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SIXTH ANNUAL ISSUE.

N ZOOLOGY

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The *International Catalogue of Scientific Literature* is in effect a continuation of the Royal Society's *Catalogue of Scientific Papers* which will, when completed, consist of an Author Catalogue and Subject Index covering the period of 1800-1900. Twelve quarto volumes of the Author Catalogue covering the period 1800-1883 have already been published; the volumes for 1884-1900 are in course of preparation. The Subject Index will be issued separately for each of the seventeen sciences dealt with in the *International Catalogue of Scientific Literature*, and will be arranged in accordance with its Schedules. The volume for Pure Mathematics is in the Press.

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THE
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VOLUME THE FORTY-THIRD

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RELATING CHIEFLY TO THE YEAR

1906

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Curator in Zoology, University of Cambridge.

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EXPLANATORY.

This Volume is printed in twenty Divisions, as enumerated on p. xii.

The pagination of each Division is separate, and is given at the left-hand top corner of the pages. The number and name of the Division is given as a heading on each left-hand page. The Registration Numbers are given at the right-hand top corner of the right-hand pages. The date 1906 corresponding to the bulk of the literature indexed is given at the right-hand top corner of the left-hand page.

In the Subject Index of each Division authors are quoted by name only. The full references will be found in the Title Section of the Division.

Where several papers by the same author are indexed they are numbered consecutively.

A List of Abbreviations of Titles of Journals is given at the end of the volume. This List includes not only journals actually indexed in this volume, but also journals that have been indexed in previous volumes. It should therefore be a fairly complete List of Journals that contain Zoological papers.

The Literature indexed is mainly that of 1906 but includes entries for 1901–1905 that have been received too late for inclusion in previous volumes of the International Catalogue.

The two title-pages show that Volume N (Zoology) of the Sixth annual issue of the International Catalogue of Scientific Literature and Volume XLIII of the Zoological Record are identical.

The proposal for an amalgamation of the Zoological Record with Volume N of the International Catalogue was approved by the International Convention which met in London in July, 1905. The agreement concluded with the Zoological Society of London provides that the amalgamation shall be for a period of five years, covering the literature of 1906–1910; at the end of this period each party to the agreement may resume the independent issue of its annual volumes, preserving the continuity of its series.

Subscribers to the Zoological Record will receive the volumes bound uniformly with previous volumes of the Record, while subscribers to the International Catalogue will receive their volumes in covers uniform with other volumes of the Catalogue.

The Schedules of Classification are bound up with the volumes intended for subscribers to the International Catalogue, but are absent from the volumes bound uniform with the Zoological Record.

The volume is arranged in accordance with these Schedules, but in one or two instances, notably in the case of Section XII Insecta, the Editor has adopted a modified arrangement.

CONTENTS.

- I. COMPREHENSIVE AND GENERAL ZOOLOGY.
- II. PROTOZOA.
- III. PORIFERA OR SPONGIAE.
- IV. COELENTERATA.
- V. ECHINODERMATA.
- VI. VERMIDEA: including GEPHYREA AND PTEROBRANCHIATA.
- VII. BRACHIOPODA AND BRYOZOA OR POLYZOA.
- VIII. MOLLUSCA.
- IX. ARTHROPODA (GENERAL).
- X. CRUSTACEA.
- XI. ARACHNIDA AND MYRIOPODA; including also GIGANTOSTRACA, EURYPTERIDA, PROTOTRACHEATA.
- XII. INSECTA.
- XIII. PROCHORDATA = TUNICATA, CEPHALOCHORDATA, ENTEROPNEUSTA.
- XIV. VERTEBRATA (GENERAL).
- XV. PISCES.
- XVI. REPTILIA AND BATRACHIA.
- XVII. AVES.
- XVIII. MAMMALIA.
- ALPHABETICAL INDEX OF NEW NAMES OF GENERA AND SUBGENERA.
- LIST OF ABBREVIATIONS AND OF TITLES OF JOURNALS.

International Catalogue of Scientific Literature

Handwritten: 1924

SCHEDULE
OF
CLASSIFICATION

(N) ZOOLOGY

(N) ZOOLOGY.

EXPLANATORY.

OWING to the great extent of Zoology, and the consequent specialisation that occurs amongst its workers, and because also of the desire that parts of the Zoological Catalogue shall be complete each one in itself, Zoology is divided into "Branches." These Branches, though primarily determined by the natural divisions of the animal kingdom, do not entirely correspond therewith, because of the great difference in the extent of the natural divisions. Some of these divisions (Phyla, or Classes) are consequently treated together, while others are divided into more than one Branch. When a division of this kind is adopted, there is also a Branch in which the divisions are still treated together as one whole, viz., Arthropoda, 2400-2431, and Vertebrata, 5200-5231. These two Branches will include only works of a wide scope. Thirty Branches are adopted, under the numbers 0400 to 6031, and there is also a comprehensive Branch numbered 0000-0231.

The subject matter of Zoology proper (as distinguished from the mode of arrangement of the animals alluded to above) is arranged under eight heads (or great Subjects). These eight Subjects all recur under each of the thirty Branches. Each Subject is indicated by a number, the terminal two digits of which are the same in every Branch. These great subjects will be found under 0207 to 0231.

Each great subject is divided into sub-divisions which are not numbered.

(N) ZOOLOGIE.

ERLÄUTERUNG.

BEI dem grossen Umfange der Zoologie und bei der hieraus sich ergebenden Specialisierung unter ihren Forschern, und ferner, weil der Wunsch besteht, dass einzelne Teile der zoologischen Bibliographie ein in sich geschlossenes Ganzes darstellen möchten, ist es als notwendig befunden, die Zoologie nach „Zweigen“ abzuteilen.

Diese Zweige sind zwar in erster Linie nach den natürlichen Gruppen des Tierreichs bestimmt, entsprechen ihnen aber doch nicht völlig, da der Umfang der einzelnen natürlichen Gruppen zu verschieden ist.

Demgemäss sind einzelne dieser Gruppen (Phyla oder Klassen) mit einander zusammengefasst, während andere in mehrere Zweige geteilt sind. In den Fällen, wo eine solche Teilung vorgenommen ist, giebt es auch einen Zweig, in dem die betreffende Gruppe ungeteilt als Ganzes behandelt wird, nämlich Arthropoden, 2400-2431 und Vertebraten, 5200-5231. Diese beiden Zweige sollen nur Werke allgemeinerer Art enthalten. Im ganzen sind unter Nummer 0400 bis 6031 dreissig Zweige angenommen und dazu kommt noch ein alles umfassender, unter Nummer 0000 bis 0231.

Der sonstige Stoff der Zoologie (im Unterschied von der Art der Anordnung der Tiere, von der bisher die Rede war) ist auf acht Kapitel (oder Hauptgegenstände) verteilt. Diese acht Gegenstände kehren bei jedem der dreissig Zweige wieder. Jeder Gegenstand ist durch eine Nummer bezeichnet, deren letzte beide Ziffern in allen Zweigen die gleichen sind.

Diese Hauptgegenstände findet man unter 0207 bis 0231.

Jeder Hauptgegenstand ist in Unterabteilungen geteilt, die nicht numeriert sind.

(N) ZOOLOGIE.

EXPLICATION.

ETANT donnée d'une part la grande extension de la Zoologie, qui force les adeptes de cette science à se spécialiser, et d'autre part la nécessité de rendre les diverses parties du Catalogue zoologique indépendantes les unes des autres, et aussi complètes que possible, on a jugé nécessaire de diviser la Zoologie en un certain nombre de "branches." Ces branches ont été établies autant que possible d'après les divisions naturelles du règne animal; toutefois elles ne correspondent pas toujours exactement à ces divisions, en raison des grandes différences qui existent dans l'étendue de celles-ci. Il en résulte que certaines divisions (phyla, ou embranchements) sont traitées ensemble, tandis que d'autres sont partagées en plusieurs branches. Dans ce dernier cas il y a ordinairement une branche qui traite l'ensemble d'un embranchement, par exemple, Arthropodes, 2400-2431, et Vertébrés, 5200-5231. Ces deux branches ne comprennent que des ouvrages traitant un sujet assez vaste. On a adopté trente branches, portant les indices 0400 à 6031. Il y a en outre une branche de généralités portant l'indice 0000-0231.

La Zoologie considérée en elle-même, indépendamment des subdivisions en groupes auxquelles il vient d'être fait allusion, est partagée en huit chapitres (ou grandes catégories de sujets). Ces huit catégories se répètent dans chacune des trente branches, et sont indiquées chacune par des nombres dont les deux derniers chiffres sont les mêmes dans toutes les branches. Elles se trouvent sous les indices 0207 à 0231. Chacune d'elles se partage en subdivisions qui ne portent pas d'indices spéciaux.

(N) ZOOLOGIA.

SPIEGAZIONI.

IN causa della grande estensione della zoologia, e della conseguente specializzazione che esiste tra i suoi cultori, e perchè è desiderabile che le parti del Catalogo zoologico siano complete ciascuna per sè stessa, si è trovato necessario dividere la zoologia in "rami." Questi rami, quantunque principalmente determinati dalle naturali divisioni del regno animale, non corrispondono interamente ad esse in causa della grande differenza nella estensione delle divisioni naturali. Alcune di queste divisioni (phyla, oppure classi) sono conseguentemente trattate insieme, mentre che altre sono divise in più di un ramo. Quando una divisione di questo genere è adottata, vi è anche un ramo nel quale le divisioni sono tuttavia trattate insieme come un complesso, p. es. Arthropoda, 2400-2431, e Vertebrata, 5200-5231. Questi due rami includeranno soltanto opere di largo soggetto. Trenta rami sono adottati, sotto i numeri 0400 a 6031, e inoltre è incluso un ramo comprensivo col numero 0000-0231.

La materia della zoologia comprensiva (distinta da quella dei gruppi degli animali qui sopra accennati) è disposta sotto otto capitoli (o grandi soggetti). Questi otto soggetti tutti si ripetono in ognuno dei trenta rami. Ciascun soggetto è indicato da un numero, del quale le due ultime cifre sono le stesse in ciaschedun ramo. Questi grandi soggetti si trovano sotto i numeri da 0207 a 0231. Ciascun grande soggetto è diviso in sottodivisioni, che non sono numerate.

INSTRUCTIONS.

The registration numbers used in Zoology consist of four figures, of which the first two indicate the taxonomic position of the animal or animals dealt with and the last two the heading under which the paper is to be indexed.

Thus, in the registration number 2611 the figures 26 indicate *Crustacea*, while the figures 11 denote *Physiology*. All registration numbers beginning with 26 refer to Crustacea, and all registration numbers ending in 11 show that the paper indexed deals with a physiological subject.

The meaning to be assigned to the last two figures is always that given in the following list:—

- ..00 Title slip.
- ..03 Comprehensive and General Works.
(For sub-divisions see *Hyperzoology p. 18.*)
- ..07 Structure. (For sub-divisions see 0207.)
- ..11 Physiology. (For sub-divisions see 0211.)
- ..15 Development. (For sub-divisions see 0215.)
- ..19 Ethology. (For sub-divisions see 0219.)
- ..23 Variation and Aetiology. (For sub-divisions see 0223.)
- ..27 Geography. (For sub-divisions see (J) Geography.)
- ..31 Taxonomy.
The meaning of the first two figures is as follows:—
- 02.. General papers, or papers dealing with several classes of animals.
- 04.. Protozoa.
- 06.. Porifera (or Spongida).
- 08.. Coelenterata (or Cnidaria).
- 10.. Echinodermata.
- 12.. Platyhelminthes. Mesozoa and Trichoplax.
- 14.. Nematelminthes.
- 16.. Chaetognatha. Rotifera. Gastrotricha. Kinorhyncha (or Echinodera).
- 18 . Archiannelida. Polychaeta. Myzostomaria. Oligochaeta. Gephyrea. Phoronis. Hirudinea.

INSTRUKTIONEN.

Die in der Zoologie gebrauchten Ordnungsnummern bestehen aus vier Ziffern, von denen die beiden ersten die taxonomische Stellung des oder der behandelten Tiere anzeigen, während die letzten die Art der Behandlung angeben. So bedeutet z. B. in der Ordnungsnummer 2611 die 26 Crustacea, die 11 aber Physiologie. Die mit 26 beginnenden Ordnungsnummern beziehen sich also auf Crustacea, und alle Ordnungsnummern auf 11 geben an, dass die katalogisierte Arbeit sich mit einem physiologischen Gegenstande befasst.

Die Bedeutung der letzten beiden Ziffern ergibt sich aus folgender Liste:—

- Titel-Zettel.
- Umfassende und allgemeine Arbeiten. (Unterabteilungen siehe *Hyperzoologie p. 18.*)
- Morphologie. (Unterabteilungen siehe 0207.)
- Physiologie. (Unterabteilungen siehe 0211.)
- Entwicklung. (Unterabteilungen siehe 0215.)
- Ethologie. (Unterabteilungen siehe 0219.)
- Variation und Ätiologie. (Unterabteilungen siehe 0223.)
- Geographische Verbreitung. (Unterabteilungen siehe (J) *Geographie.*)

Taxonomie.

Die ersten beiden Ziffern bedeuten Folgendes:—

- Allgemeine, oder auf mehrere Tierklassen bezügliche Arbeiten.
- Protozoa.
- Porifera (oder Spongida).
- Coelenterata (oder Cnidaria).
- Echinodermata.
- Platyhelminthes. Mesozoa und Trichoplax.
- Nematelminthes.
- Chaetognatha. Rotifera. Gastrotricha. Kinorhyncha (oder Echinodera).
- Archiannelida. Polychaeta. Myzostomaria. Oligochaeta. Gephyrea. Phoronis. Hirudinea.

INSTRUCTIONS.

Les numéros enregistreurs employés en zoologie comprennent quatre chiffres, dont les deux premiers indiquent la position taxonomique de l'animal ou des animaux en question, tandis que les deux derniers indiquent la rubrique sous laquelle le mémoire doit être classé.

Ainsi, dans le numéro enregistreur 2611 les chiffres 26 indiquent Crustacés, pendant que les chiffres 11 signifient Physiologie. Tout numéro enregistreur qui commence par 26 se rapporte aux Crustacés, de même que tout numéro enregistreur en 11 indique que le mémoire dont il est question s'occupe de physiologie.

La signification des deux derniers chiffres est toujours celle qui est donnée dans la liste suivante :—

- ..00 Fiche de titre.
- ..03 Ouvrages généraux ou d'une grande étendue. (Pour les subdivisions voy. Hyperzoologie p. 19.)
- ..07 Morphologie. (Pour les subdivisions voy. 0207.)
- ..11 Physiologie. (Pour les subdivisions voy. 0211.)
- ..15 Développement. (Pour les subdivisions voy. 0215.)
- ..19 Ethologie. (Pour les subdivisions voy. 0219.)
- ..23 Variation et étiologie. (Pour les subdivisions voy. 0223.)
- ..27 Distribution géographique. (Pour les subdivisions voy. (J) Géographie.)
- ..31 Taxonomie.
La signification des deux premiers chiffres est comme suit :—
- 02.. Mémoires généraux ou ayant trait à plusieurs classes d'animaux.
- 04.. Protozoaires.
- 06.. Porifères (ou Spongiaires).
- 08.. Cœlentérés (ou Cnidaria).
- 10.. Echinodermes.
- 12.. Platyhelminthes. Mésozoaires et le Trichoplax.
- 14.. Nématelminthes.
- 16.. Chætognathes. Rotifères. Gastrotriches. Kinorhynques (ou Echinodères).
- 18.. Archiannelides. Polychètes. Myzostomes. Oligochètes. Géphyriens. Phoronis. Hirudinées.

ISTRUZIONI.

I numeri di registrazione adoperati nella zoologia consistono di quattro cifre, delle quali le due prime indicano la posizione tassonomica dell'animale o degli animali di cui si tratta, mentre che le due ultime indicano la rubrica sotto la quale si ha da catalogare la memoria. Così, nel numero di registrazione 2611 le cifre 26 indicano *Crustacea*, mentre che le cifre 11 si riferiscono alla *Fisiologia*. Ogni numero di registrazione che comincia con 26 si riferisce ai *Crustacea*, e da ogni numero che termina in 11 si può inferire che la memoria catalogata si occupa di fisiologia.

Le due ultime cifre hanno invariabilmente la significazione che si vede nell'elenco seguente :—

- Scheda a titolo.
- Opere generali e comprensive. (Per le suddivisioni vedi *Iperzoologia* p. 19.)
- Struttura. (Per le suddivisioni vedi 0207.)
- Fisiologia. (Per le suddivisioni vedi 0211.)
- Sviluppo. (Per le suddivisioni vedi 0215.)
- Etologia. (Per le suddivisioni vedi 0219.)
- Variazione ed Etiologia. (Per le suddivisioni vedi 0223.)
- Geografia. (Per le suddivisioni vedi (J) Geografia.)
- Tassonomia.
Le due prime cifre hanno sempre la significazione seguente :—
- Lavori generali o riferentisi a più classi di animali.
- Protozoa.
- Porifera (vel Spongida).
- Cœlenterata (vel Cnidaria).
- Echinodermata.
- Platyhelminthes. Mesozoa e Trichoplax.
- Nématelminthes.
- Chætognatha. Rotifera. Gastrotricha. Kinorhyncha (vel Echinodera).
- Archiannelida. Polychæta. Myzostomaria. Oligochæta. Gephyræa. Phoronis. Hirudinea.

- 20.. Brachiopoda. Bryozoa (or Polyzoa).
 22.. Mollusca.
 24.. Arthropoda.
 26.. Crustacea.
 28.. Trilobita. Xiphosura. Eurypterida. Pantopoda. Tardigrada. Linguatulida.
 30.. Arachnida.
 32.. Prototracheata (or Onychophora).
 34.. Myriopoda.
 35.. Insecta.
 36.. Aptera (or Apterygogenea). Anoplura. Mallophaga. Thysanoptera (or Physopoda). Siphonaptera (or Aphaniptera).
 38.. Orthoptera, Neuroptera and Trichoptera.
 40.. Hemiptera (or Rhynchota), excluding Anoplura, which are placed in 36..
 42.. Diptera, excluding Siphonaptera, which are placed in 36..
 44.. Lepidoptera.
 46.. Hymenoptera.
 48.. Coleoptera, including Strepsiptera.
 50.. Prochordata: Amphioxus (or Leptocardii), Enteropneusta, Tunicata.
 52.. Vertebrata.
 54.. Pisces, excluding Leptocardii (or Amphioxus), which are placed in 50..
 56.. Amphibia and Reptilia.
 58.. Aves.
 60.. Mammalia.

In addition to the complete volume it is intended to issue as three separate parts sections 12.. to 18.. (Vermidea); 28.. to 34..; and 35.. to 48.. (Hexapoda). Each of the remaining sections will then be published as a separate part.

Slips or Cards used in preparing the Volume.

Four kinds of slips are to be provided:—(1) Title slips, (2) Subject slips, (3) Systematic (Taxonomic) slips, (4) New Genera or Species slips. The several slips relating to the same paper should be tied together, and should have a common (arbitrary) number. This number must not be used for any other paper until two years have

- Brachiopoda. Bryozoa (oder Polyzoa).
 Mollusca.
 Arthropoda.
 Crustacea.
 Trilobita. Xiphosura. Eurypterida. Pantopoda. Tardigrada. Linguatulida.
 Arachnida.
 Prototracheata.
 Myriopoda.
 Insecta.
 Aptera (oder Apterygogenea). Anoplura. Mallophaga. Thysanoptera (oder Physopoda). Siphonaptera (oder Aphaniptera).
 Orthoptera, Neuroptera und Trichoptera.
 Hemiptera (oder Rhynchota), excl. Anoplura, die unter 36 .. eingeordnet sind.
 Diptera, excl. Siphonaptera, die unter 36.. eingeordnet sind.
 Lepidoptera.
 Hymenoptera.
 Coleoptera, incl. Strepsiptera.
 Prochordata: Amphioxus (oder Leptocardii), Enteropneusta, Tunicata.
 Vertebrata.
 Pisces, excl. Leptocardii (oder Amphioxus), die unter 50 .. eingeordnet sind).
 Amphibia und Reptilia.
 Aves.
 Mammalia.

Es wird beabsichtigt, ausser dem Gesamtbande noch drei separate, aus folgenden Abschnitten bestehende Teile herauszugeben: 12.. bis 18.. (Vermidea); 28.. bis 34..; und 35.. bis 48.. (Hexapoda). Jeder der übrigen Abschnitte wird dann auch separat herausgegeben.

Zettel zur Vorbereitung des Bandes.

Es müssen vier verschiedene Zettel hergestellt werden:—(1) Titel-Zettel, (2) Sach-Zettel, (3) System-(Taxonomie-) Zettel, (4) Zettel für neue Gattungen oder Arten. Die verschiedenen, auf dieselbe Arbeit bezüglichen Zettel sollen zusammengeheftet und mit einer gemeinsamen (willkürlichen) Nummer versehen werden. Vor Ablauf von zwei

- 20.. Brachiopodes. Bryozoaires (ou Polyzoaires).
 22.. Mollusques.
 24.. Arthropodes.
 26.. Crustacés.
 28.. Trilobites. Xiphosures. Euryptérides. Pantopodes. Tardigrades. Linguatulides.
 30.. Arachnides.
 32.. Prototrachéates (ou Onychophores).
 34.. Myriapodes.
 35.. Insectes.
 36.. Aptères (ou Aptérygogéniens). Anoploures. Mallophages. Thysanoptères (ou Physopodes). Siphonaptères (ou Aphaniptères).
 38.. Orthoptères, Névroptères et Trichoptères.
 40.. Hémiptères (ou Rhynchotes), à l'exclusion des Anoploures, qui sont placés sous le numéro 36..
 42.. Diptères, à l'exclusion des Siphonaptères, qui sont placés sous le numéro 36..
 44.. Lépidoptères.
 46.. Hyménoptères.
 48.. Coléoptères, y compris les Strepsiptères.
 50.. Prochordés : Amphioxus (ou Leptocardiens) Entéropneustes, Tuniciers.
 52.. Vertébrés.
 54.. Poissons, à l'exclusion des Leptocardiens (ou Amphioxus), qui sont placés sous le numéro 50..
 56.. Batraciens et Reptiles.
 58.. Oiseaux.
 60.. Mammifères.

Outre le volume complet, l'on se propose de publier en trois volumes à part les sections 12.. à 18.. (Vermidés); 28.. à 34..; et 35.. à 48.. (Hexapodes). Puis chacune des sections suivantes sera aussi publiée à part.

- Brachiopoda. Bryozoa (vel Polyzoa).
 Mollusca.
 Arthropoda.
 Crustacea.
 Trilobita. Xiphosura. Eurypterida. Pantopoda. Tardigrada. Linguatulida.
 Arachnida.
 Prototracheata (vel Onychophora).
 Myriopoda.
 Insecta.
 Aptera (vel Apterygogenea). Anoplura. Mallophaga. Thysanoptera (vel Physopoda). Siphonaptera (vel Aphaniptera).
 Orthoptera, Neuroptera et Trichoptera.
 Hemiptera (vel Rhynchota), esclusi Anoplura, che sono indicati col numero 36..
 Diptera, esclusi Siphonaptera, che sono indicati col numero 36..
 Lepidoptera.
 Hymenoptera.
 Coleoptera, incl. Strepsiptera.
 Prochordata : Amphioxus (vel Leptocardii), Enteropneusta, Tunicata.
 Vertebrata.
 Pisces, escl. Leptocardii (vel Amphioxus), i quali sono indicati col numero 50..
 Batrachia et Reptilia.
 Aves.
 Mammalia.

Oltre il tomo completo si ha l'intenzione di pubblicare in tre parti separate le sezioni 12.. a 18.. (Vermidea); 28.. a 34..; e 35.. a 48.. (Hexapoda). Ciascuna delle rimanenti sezioni verrà poi anche pubblicata separatamente.

Rédaction des Fiches.

Il doit y avoir quatre sortes de fiches, savoir :—(1) Fiches de titre, (2) Fiches de matière, (3) Fiches systématiques (taxonomiques), (4) Fiches pour les genres ou espèces nouvelles. Toutes les fiches qui se rapportent au même mémoire doivent être attachées ensemble et marquées d'un numéro en commun (arbitraire). Ce numéro ne

Redazione delle Schede.

Devono farsi quattro specie di schede :—(1) Schede a titolo, (2) Schede a materia, (3) Schede sistematiche (tassonomiche), (4) Schede per i generi o le specie nuove. Tutte le schede riferentisi al medesimo lavoro devono essere attaccate insieme e segnate con un numero commune (arbitrario). Questo numero non è da usarsi

elapsed. The slips should be prepared as follows:—

(1) *Title slips*.—The first entry on a title slip is the letter N, followed by a four-figure registration number, in which the first two figures indicate the Branch of zoology as given in the above list, while the two last figures are ..00. The remaining entries on the title slips are to be made as on the author slips for the other sciences.

At the foot of each title slip all the registration numbers corresponding to the subject and systematic slips prepared for the paper are to be given. If a paper is to be indexed under more than one Branch of zoology a separate title slip must be prepared for each Branch.

Example—

N 6000.

Mansion, Arthur. La taupe commune. Rev. sci., Paris, (sér. 4), 17, 1902, (13–18). [6019 6031].

In order to economise space and to simplify entries, the full reference to a paper will be made only on the title and systematic slips. Each title slip will be printed in the Catalogue with a definite number attached. This number, together with the author's name, will be the reference to the paper in all other cases.

(2) *Subject Slips*.—The entries on the subject slips shall not, as a rule, be reproductions of the title, but such modifications thereof as shall serve to convey the necessary information in the clearest and most direct manner possible.

To prepare such slips properly it is essential that the papers shall have been read and indexed by those who are able to determine what are the several matters of importance to be brought under notice.

In the case of slips bearing the numbers 0000–0050, 0070 and 0090,

Jahren darf keine andere Arbeit mit derselben Nummer bezeichnet werden.

(1) *Titel-Zettel*.—Die erste Eintragung auf einem Titel-Zettel ist der Buchstabe N, worauf eine vierziffrige Ordnungsnummer folgt wovon die zwei ersten Ziffern den Zweig der Zoologie bezeichnen, wie in obiger Liste angegeben, während die zwei letzten Ziffern ..00 sind. Die übrigen Eintragungen auf dem Titel-Zettel sind in derselben Weise abzufassen wie bei den Autoren-Zetteln in den anderen Wissenschaften.

Am Fusse eines jeden Titel-Zettels müssen sämtliche, den für die betreffende Arbeit hergestellten Sach- und System-Zetteln entsprechende, Ordnungsnummern angegeben werden. Soll ein Aufsatz unter mehr als einem Zweige der Zoologie katalogisiert werden, so ist für jeden Zweig ein besonderer Titel-Zettel herzustellen.

Beispiel—

N 6000.

Mansion, Arthur. La taupe commune. Rev. sci., Paris, (sér. 4), 17, 1902, (13–18). [6019 6031].

Um Raum zu ersparen und die Eintragungen zu vereinfachen kommt das vollständige Citat nur auf die Titel- und System-Zettel. Jedem im Kataloge gedruckten Titel-Zettel wird eine bestimmte Nummer zugeteilt. Diese Nummer, mit dem Verfassernamen, bildet in allen anderen Fällen das Citat.

(2) *Sach-Zettel*. — Die Eintragungen auf den Sach-Zetteln sollen in der Regel keine Wiederholungen des Titels sein, sondern solche Modifikationen desselben, dass sie die erforderliche Auskunft so kurz und bündig wie möglich erteilen.

Für die richtige Fassung solcher Zettel ist es von Wichtigkeit, dass die Aufsätze von Personen gelesen und katalogisiert werden, welche imstande sind das Wichtige darin zu erkennen und hervorzuheben.

Bei Zetteln, welche die Nummern 0000–0050, 0070 und 0090 tragen,

doit être employé pour aucun autre mémoire qu'au bout de deux ans. Voici comment il faut rédiger les fiches :—

(1) *Fiches de titre*.—La fiche de titre doit commencer par la lettre N, suivie d'un numéro enregistreur de quatre chiffres, dont les deux premiers indiquent la branche de zoologie d'accord avec la liste ci-dessus, tandis que les deux dernières sont 00. Ensuite la fiche de titre sera établie de la même façon que les fiches d'auteur pour les autres sciences.

Chaque fiche de titre doit porter en bas tous les numéros enregistreurs qui correspondent aux fiches de matière et systématiques qui aient été rédigées pour le mémoire dont il s'agit. Si un mémoire doit être catalogué sous plus d'une branche de zoologie il faut une fiche séparée pour chaque branche.

Exemple—

N 6000.

Mansion, Arthur. La taupe commune. Rev. sci., Paris, (sér. 4), 17, 1902, (13-18). [6019 6031].

Pour gagner de la place et simplifier les articles, la référence ne sera donnée en entier que sur les fiches de titre et les fiches systématiques. Chaque fiche de titre sera imprimée dans le Catalogue et désignée par un numéro. Ce numéro, avec le nom d'auteur, servira de renvoi à l'article partout ailleurs.

(2) *Fiches de matière*.—Règle générale, la fiche de matière doit porter non pas une reproduction du titre mais de telles modifications du titre qui suffisent à donner les renseignements nécessaires de la manière la plus précise.

Afin que de telles fiches soient bien établies il est essentiel que les mémoires aient été lus et catalogués par des personnes à même de déterminer quelles sont les choses d'importance à faire ressortir. Là où il s'agit de fiches portant les numéros 0000-0050, 0070 et 0090, le

per nessun altro lavoro prima che siano scorsi due anni. Le schede devono essere redatte come segue :—

(1) *Schede a titolo*.—La scheda a titolo deve cominciare colla lettera N, seguita da un numero di registrazione di quattro cifre di cui le due prime indicano il ramo di zoologia d'accordo coll'elenco dissopra, mentre che le due ultime sono .00. Le altre annotazioni sulla scheda a titolo si fanno poi come sulle schede per autori nelle altre scienze.

La scheda a titolo deve portare in fondo tutti i numeri di registrazione corrispondenti colle schede sistematiche ed a materia che si siano preparate per il lavoro di cui si tratta. Se si vuol catalogare un lavoro sotto più d'un ramo di zoologia bisogna fare una scheda separata per ogni ramo.

Esempio—

N 6000.

Mansion, Arthur. La taupe commune. Rev. Sci., Paris, (sér. 4), 17, 1902, (13-18). [6019 6031].

Per risparmiare lo spazio e ridurre al più semplice le annotazioni, la referenza non verrà scritta per esteso che sulle schede a titolo e le schede sistematiche. Ogni scheda a titolo si stamperà nel Catalogo con un numero definito. Questo numero, assieme al nome dell'autore, costituirà la referenza al lavoro in ogni altro caso.

(2) *Schede a materia*.—Le annotazioni sulle schede a materia non saranno, di regola, ripetizioni del titolo, ma saranno tali modificazioni di questo che bastino a dare le informazioni necessarie nel modo più perspicuo che sia possibile.

Perchè tali schede siano ben redatte è essenziale che le memorie siano state lette e catalogate da persone che possano determinare quali sono le cose importanti da far risaltare.

Trattandosi di schede portanti i numeri 0000-0050, 0070 e 0090, il

the author's name should immediately follow the registration number.

Example—

N 0040.

Ross, R. Malaria and mosquitoes. London. Proc. R. Inst., 16, 1901, (295–313).

This should be attached to the title slip and abbreviated thus:—

N 0040.

Ross, R. Malaria and mosquitoes. (295–313).

In cases in which it is desirable, for other purposes which the Bureaus may have in contemplation, to enter the full reference on the slip, the shortened reference will be made at the Central Bureau by striking out unnecessary particulars.

On slips bearing a number ending in ..27 (Geographical Distribution) the registration number should be immediately followed by the geographical symbol. After this should come (a) the author's name, (b) the title of the paper.

Example—

N 2227 *he.*

Pilsbry, H. A. A new Colombian Pleurodonte [*P. clappi*]. Nautilus, Philadelphia, Pa., 15, 1901, (34–35).

which, if the above directions are followed, will be reduced to—

N 2227 *he.*

Pilsbry, H. A. A new Colombian Pleurodonte. (34–35).

The remaining registration numbers, viz., 0060, and those ending in ..03, ..07, ..11, ..15, ..19, and ..23, are divided into numerous sub-headings. One of these sub-headings should follow the registration number.

A separate card must be provided for each entry that is to appear separately in the Catalogue.

In cases in which entries cannot be included under existing subdivisions, and for which a new sub-

miss der Verfassername unmittelbar auf die Ordnungsnummer folgen.

Beispiel—

N 0040.

Ross, R. Malaria and mosquitoes. London. Proc. R. Inst., 16, 1901, (295–313).

Dieser Zettel müsste an den Titel-Zettel geheftet und wie folgt abgekürzt werden:—

N 0040.

Ross, R. Malaria and mosquitoes. (295–313.)

Falls es den Bureaus, zu irgend einem von ihnen beabsichtigten Zwecke, wünschenswert erscheint, das vollständige Citat beizubehalten, so wird das Centralbureau durch Streichen des Überflüssigen dasselbe abkürzen.

Bei Zetteln, welche eine Nummer auf ..27 tragen (geographische Verbreitung) muss das geographische Symbol unmittelbar auf die Ordnungsnummer folgen. Dann kommt (a) der Verfassername, (b) der Titel des Aufsatzes.

Beispiel—

N 2227 *he.*

Pilsbry, H. A. A new Colombian Pleurodonte [*P. clappi*]. Nautilus, Philadelphia, Pa., 15, 1901, (34–35).

was, obiger Vorschrift gemäss, abgekürzt so lautet:—

N 2227 *he.*

Pilsbry, H. A. A new Colombian Pleurodonte. (34–35).

Die übrigen Ordnungsnummern, namentlich 0060 und jene auf ..03, ..07, ..11, ..15, ..19 und ..23, sind in zahlreiche Unterabteilungen geteilt. Eine dieser Unterabteilungen muss auf die Ordnungsnummer folgen.

Jeder besonderen Eintragung im Kataloge muss ein besonderer Zettel entsprechen.

Falls die vorhandenen Unterabteilungen zur gehörigen Katalogisierung nicht hinreichen und

nom d'auteur doit suivre immédiatement le numéro enregistreur.

Exemple—

N 0040.

Ross, R. Malaria and mosquitoes. London, Proc. R. Inst., 16, 1901, (295-313).

Ceci doit être attaché à la fiche de titre et abrégé ainsi :—

N 0040.

Ross, R. Malaria and mosquitoes. (295-313).

Dans les cas où les bureaux régionaux, dans un but quelconque, désirent mettre la référence en entier sur la fiche, le Bureau Central en fera la référence abrégée en biffant les détails superflus.

Sur les fiches portant un numéro en .27 (Distribution Géographique) le numéro enregistreur doit être suivi immédiatement du symbole géographique. Ensuite viendrait (a) le nom d'auteur, (b) le titre du mémoire.

Exemple—

N 2227 *he.*

Pilsbry, H. A. A new Colombian Pleurodonte [*P. clappi*]. Nautilus, Philadelphia, Pa., 15, 1901, (34-35).

Ce qui, conformément aux instructions ci-dessus, sera réduit à :—

N 2227 *he.*

Pilsbry, H. A. A new Colombian Pleurodonte. (34-35).

Les autres numéros enregistreurs, e.à.d. 0060 et ceux en .03, .07, .11, .15, .19 et .23, sont divisés en de nombreuses subdivisions. Une de ces subdivisions doit suivre le numéro enregistreur.

Il faut une fiche séparée pour chaque article qui doit paraître séparément dans le catalogue.

S'il se trouve que les subdivisions actuelles ne suffisent pas et qu'une nouvelle subdivision serait à désirer,

nome dell'autore deve seguire immediatamente il numero di registrazione.

Esempio—

N 0040.

Ross, R. Malaria and mosquitoes. London, Proc. R. Inst., 16, 1901, (295-313).

Questo si deve attaccare alla scheda a titolo ed abbreviare così :—

N 0040.

Ross, R. Malaria and mosquitoes. (295-313).

Ove gli Uffici Regionali, a qualunque scopo, volessero annotare la riferenza sulla scheda per esteso, la riferenza abbreviata si farebbe dall'Ufficio Centrale col cancellare i dettagli soverchi.

Sulle schede portanti un numero in .27 (Distribuzione Geografica) il numero di registrazione dev'essere seguito immediatamente dal simbolo geografico. Poi verrebbe (a) il nome dell'autore, (b) il titolo della memoria.

Esempio—

N 2227 *he.*

Pilsbry, H. A. A new Colombian Pleurodonte [*P. clappi*]. Nautilus, Philadelphia, Pa., 15, 1901, (34-35).

Giusto le suddette istruzioni questo si ridurrebbe a :—

N 2227 *he.*

Pilsbry, H. A. A new Colombian Pleurodonte. (34-35).

I rimanenti numeri di registrazione, cioè 0060 e quelli in .03, .07, .11, .15 e .23 sono divisi in numerose subdivisions. Una di queste subdivisions deve seguire il numero di registrazione.

Ci vuol una scheda separata per ogni articolo che deve apparire separatamente nel Catalogo.

Nel caso di articoli che non si possono includere nelle subdivisions attuali e per i quali si stima desidera-

division is thought to be desirable, such suggested new sub-division shall be recorded upon the card, in order that the matter may be dealt with by the Central Bureau. In no case must two differently numbered subjects be placed on one slip.

If the book or paper deals with so many of these sub-headings as to render it unnecessary to mention all of them, the word "general" should be used for the sub-heading. The sub-heading should be followed by (a) the author's name, (b) the title or modified title of the paper.

Example—

N 6015 [Regeneration].

Lange, C. Experiments on regeneration [of kidneys].
(Danish) Kjöbenhavn, Biol. Forh., 1899-1900, 1901, (1-8).

If this card is sent to the Central Bureau tied to the corresponding title slip, it should be abbreviated, as explained above, to—

N 6015 [Regeneration].

Lange, C. Experiments on regeneration [of kidneys].
(Danish) (1-8).

(3) *Systematic slips*.—In these slips the name of the animal or animals should immediately follow the registration number. Where more than one genus is mentioned a separate slip must be prepared for each genus.

Every new genus must have a separate slip; the name of the new genus must be followed by the indication "n. gen.," a brief statement as to what it is allied to and some indication of the species it includes, followed by the author's name and reference.

New sub-genera are to be treated in a similar manner to genera, except that "n. subgen." will be used, and the name of the genus of which it is a division will follow.

eine neue Unterabteilung deshalb wünschenswert erscheint, so ist die vorgeschlagene neue Unterabteilung auf dem Zettel anzugeben, damit das Central-Bureau entscheide, wie dabei zu verfahren sei. Auf keinen Fall dürfen zwei verschieden numerierte Gegenstände auf einen Zettel gesetzt werden.

Bezieht sich das Buch, resp. der Aufsatz, auf so viele Unterabteilungen, dass es unzweckmässig ist, sie alle anzuführen, so gebraucht man das Wort „Allgemeines“ für die Unterabteilung. Auf die Unterabteilung folgt (a) der Verfassername, (b) der Titel, resp. der modifizierte Titel der Arbeit.

Beispiel—

N 6015 [Regeneration].

Lange, C. Experiments on regeneration [of kidneys].
(Danish) Kjöbenhavn, Biol. Forh., 1899-1900, 1901, (1-8).

Wird dieser Zettel mit dem entsprechenden Titel-Zettel zusammengeheftet an das Central-Bureau geschickt, so ist er, wie oben erklärt, folgendermassen abzukürzen:—

N 6015 [Regeneration].

Lange, C. Experiments on regeneration [of kidneys].
(Danish) (1-8).

(3) *System-Zettel*.—Bei diesen Zetteln soll der Name des Tieres oder der Tiere unmittelbar auf die Ordnungsnummer folgen. Wird mehr als eine Gattung erwähnt, so ist für jede Gattung ein besonderer Zettel herzustellen. Jede neue Gattung muss einen besonderen Zettel erhalten; auf den Namen der neuen Gattung folgt die Bemerkung „n. gen.“ eine kurze Notiz, wem sie verwandt ist, und irgend eine Angabe über die Species, die sie umfasst; hierauf Verfassername und Citat.

Neue Untergattungen sind ähnlich zu behandeln, wie Gattungen, nur dass die Bemerkung „n. subgen.“ gebraucht und der Name der Gattung, um deren Unterabteilung es handelt, hinzugefügt wird.

la nouvelle subdivision que l'on propose doit être indiquée sur la fiche afin que le Bureau Central décide comment il faut procéder. En aucun cas deux articles portant des numéros différents ne doivent être écrits sur la même fiche.

Dans le cas où le livre ou mémoire traite de tant de ces subdivisions qu'il est inutile de les citer toutes, il faut employer le mot "Généralités" pour la subdivision. La subdivision doit être suivie (a) du nom d'auteur, (b) du titre ou du titre modifié du mémoire.

Exemple—

N 6015 [Regeneration].

Lange, C. Experiments on regeneration [of kidneys]. (Danish) Kjöbenhavn, Biol. Forh., 1899-1900, 1901, (1-8).

Si cette fiche est envoyée au Bureau Central attachée à la fiche de titre correspondante elle doit être abrégée, comme il est expliqué ci-dessus, à :—

N 6015 [Regeneration].

Lange, C. Experiments on regeneration [of kidneys]. (Danish) (1-8).

(3) *Fiches systématiques.*—Sur ces fiches le nom de l'animal ou des animaux doit suivre immédiatement le numéro enregistreur. Si mention est faite de plus d'un genre il faut une fiche distincte pour chaque genre.

Chaque genre nouveau doit avoir une fiche distincte ; le nom du genre nouveau doit être suivi de l'indication "n. gen.," puis d'une courte indication du genre ou des genres auxquels il est allié et de quelques indications relatives aux espèces qu'il renferme ; le tout sera suivi du nom d'auteur et de la référence.

Les sous-genres nouveaux seront traités de la même façon que les genres, mais l'indication "n. gen." sera remplacée par "n. subgen.," et l'on mettra ensuite le nom du genre auquel le sous-genre se rattache.

bile qualche nuova suddivisione, si deve annotare sulla scheda la nuova suddivisione proposta affinché l'Ufficio Centrale decida come si debba comportare con essa. In nessun caso si devono porre sulla stessa scheda due soggetti portanti numeri diversi.

Se il libro o la memoria si riferisce a tante di queste suddivisioni che non fa d'uopo accennarle tutte, allora si pone per la suddivisione la parola "generale." La suddivisione dev'essere seguita (a) dal nome dell'autore, (b) dal titolo, ossia dal titolo modificato, del lavoro.

Esempio—

N 6015 [Regeneration].

Lange, C. Experiments on regeneration [of kidneys]. (Danish) Kjöbenhavn, Biol. Forh., 1899-1900, 1901, (1-8).

Se questa scheda si manda all'Ufficio Centrale attaccata alla scheda a titolo corrispondente si deve abbreviare, come si è spiegato qui sopra, a :—

N 6015 [Regeneration].

Lange, C. Experiments on regeneration [of kidneys]. (Danish) (1-8).

(3) *Schede sistematiche.*—Su queste schede il nome dell'animale o degli animali deve seguire immediatamente il numero di registrazione. Se si fa menzione di più di un genere bisogna far una scheda separata per ogni genere.

Ciascun nuovo genere deve avere una scheda separata ; il nome del nuovo genere dev'essere seguito dalla indicazione "n. gen.," poi viene una breve indicazione di quello cui esso si connette, e qualche indicazione delle specie che include, e segue infine il nome dell'autore e le riferenze.

I nuovi sottogeneri saranno trattati in modo simile ai nuovi generi, ma sarà adoperata la indicazione "n. subgen.," e seguirà il nome del genere del quale il sottogenere è divisione.

The author's name should follow the title or modified title on these slips.

Examples—

(I) N 2631.

Amblyops crozetii, bipolar occurrence. Ohlin, A. Ann. Mag. Nat. Hist., London, (Ser. 7), 7, 1901, (371–374).
[Schizopoda.]

(II) N 4431.

Heterophrya neximargo sp. n. Peru. Warren, W. Nov. Zool., Tring, 8, 1901, (457).
[Geometridae.]

When more than one new species is described from the same genus, all the new species should be mentioned on the slip and the respective page references given. Where only one new species is mentioned the slip should be arranged as in Example II. In any case the habitat should be given where possible.

At the end of each slip the name of the group of animals referred to should be given. When the work gives no indication of the group (i.e., Family, Sub-family or Tribe) and the slip-maker cannot from his own knowledge supply the deficiency the sign [?] may be written at the end of the slip.

When it is undesirable to index each genus separately a general entry should be given.

Example—

N 4431.

Hoyningen-Huene, F. von. Aberrationen einiger estländischer Eulen und Spanner. Berliner ent. Zs., 46, 1901, (309–319, mit 1 Taf.).
[Noctuidae.]

On systematic slips Christian names should be represented by initials only.

Slips relating to fossil forms are to be marked †, and slips relating to fossil and recent forms †*. (The latter condition occurs only rarely in this division.)

Bei diesen Zetteln sollte der Verfassersname auf den Titel oder modifizierten Titel folgen.

Beispiele—

(I) N 2631.

Amblyops crozetii, bipolar occurrence. Ohlin, A. Ann. Mag. Nat. Hist., London, (Ser. 7), 7, 1901, (371–374).
[Schizopoda.]

(II) N 4431.

Heterophrya neximargo sp. n. Peru. Warren, W. Nov. Zool., Tring, 8, 1901, (457).
[Geometridae.]

Wird mehr als eine neue Art derselben Gattung beschrieben, so sollen sämtliche neue Arten, mit Angabe der betreffenden Seiten-Zahlen, auf dem Zettel erwähnt werden. Wo es sich bloß um eine neue Art handelt, ist der Zettel wie in Beispiel II herzustellen. Das Habitat ist auf jeden Fall wenn möglich anzugeben.

Am Ende eines jeden System-Zettels ist der Name der betreffenden Tiergruppe anzuführen. Enthält die Arbeit keine Angabe der Gruppe (d.h. Familie, Unterfamilie oder Tribus) und ist der Zettelschreiber nicht im stande, aus eigener Kenntniss die Lücke auszufüllen, so kann das Zeichen [?] an das Ende des Zettels gesetzt werden. Ist die gesonderte Angabe einer jeden Gattung nicht wünschenswert, so ist eine allgemeine Bezeichnung zu geben.

Beispiel—

N 4431

Hoyningen-Huene, F. von. Aberrationen einiger estländischer Eulen und Spanner. Berliner ent. Zs., 46, 1901, (309–319, mit 1 Taf.).
[Noctuidae.]

Auf den System-Zetteln sollen die Vornamen nur durch Anfangsbuchstaben wiedergegeben werden.

Zettel, die sich auf fossile Formen beziehen, sind durch ein † zu bezeichnen; solche, die sich sowohl auf fossile als auf recente Formen beziehen, durch ein †*. (Der letzte Fall kommt in diesem Abschnitt nur selten vor.)

Le nom d'auteur doit *suivre* le titre ou le titre modifié sur ces fiches.

Exemples—

(I) N 2631.

Amblyops crozetii, bipolar occurrence. Ohlin, A. Ann. Mag. Nat. Hist., London, (Ser. 7), 7, 1901, (371-374).
[Schizopoda.]

(II) N 4431.

Heterephrya neximargo sp. n. Peru. Warren, W. Nov. Zool., Tring, 8, 1901, (457).
[Geometridae.]

Quando il y a description de plus d'une espèce du même genre, toutes les espèces nouvelles doivent être portées sur la fiche avec le renvoi aux pages respectives. S'il ne s'agit que d'une seule espèce nouvelle la fiche doit être établie conformément à exemple II. L'habitat doit être indiqué en tout cas si possible. L'on devra placer à la fin de chaque fiche systématique le nom du groupe d'animaux auquel la fiche se rapporte. Quand l'ouvrage ne fournit aucune indication de groupe (famille, sous-famille ou tribu) et lorsque le rédacteur de la fiche ne peut, d'après ses propres connaissances, suppléer à ce défaut d'indications, l'on pourra mettre le signe [?] à la fin de la fiche.

S'il n'est pas à désirer que chaque genre soit catalogué séparément il faut établir un article général.

Exemple—

N 4431.

Hoyningen-Huene, F. von. Aberrationen einiger estländischer Eulen und Spanner. Berliner ent. Zs., 46, 1901, (309-319, mit 1 Taf.).
[Noctuidae.]

Sur les fiches systématiques les noms de baptême doivent être représentés par des initiales seulement.

Les fiches relatives aux formes fossiles doivent être marquées †, et celles qui se rapportent aux formes fossiles récentes †*. (Cette dernière condition ne se présente que rarement dans cette division.)

Su queste schede il nome dell'autore deve venire *dopo* il titolo o titolo modificato.

Esempi—

(I) N 2631.

Amblyops crozetii, bipolar occurrence. Ohlin, A. Ann. Mag. Nat. Hist., London, (Ser. 7), 7, 1901, (371-374).
[Schizopoda.]

(II) N 4431.

Heterephrya neximargo sp. n. Peru. Warren, W. Nov. Zool., Tring, 8, 1901, (457).
[Geometridae.]

Quando si descrive più di una specie nuova del medesimo genere, tutte le specie nuove devono venire accennate sulla scheda colla riferenza alle pagine rispettive. Trattandosi di una sola specie nuova, la scheda dev' essere redatta come in esempio II. In ogni caso, per quanto sia possibile, si deve menzionare il habitat.

Al fine di ciascuna scheda sistematica si deve porre il nome del gruppo di animali cui la scheda si riferisce. Quando il lavoro non porta indicazione del gruppo (cioè famiglia, sottofamiglia, tribù) e il redattore della scheda non può di suo supplire alla deficienza, si può mettere al fine della scheda il segno [?].

Quando non si vuole catalogare separatamente ogni genere, si farà un' annotazione generale.

Esempio—

N 4431.

Hoyningen-Huene, F. von. Aberrationen einiger estländischer Eulen und Spanner. Berliner ent. Zs., 46, 1901, (309-319, mit 1 Taf.).
[Noctuidae.]

I nomi di battesimo devono essere rappresentati sulle schede sistematiche colle sole iniziali.

Le schede relative a forme estinte saranno segnate †, e le schede relative a forme estinte e viventi †*. (L'ultima condizione occorre soltanto raramente in questa divisione.)

(4) *Lists of New Genera and Species.*—For the preparation of these lists, the Regional Bureaus should give the names of genera and sub-genera (a) which are new, (b) the significance of which has been changed, (c) which contain new species. These may be written at the foot of the systematic slips, but it would greatly facilitate an earlier production of the volume if the Regional Bureaus would write each new genus on a separate card and attach it to the systematic slip.

Date of Receiving Slips.

The period during which the material for any one year will be received at the Central Bureau will not extend beyond June of the following year. Regional Bureaus are therefore earnestly requested to complete the indexing of their zoological literature within the time named.

The period covered by the literature indexed in any one of the annual volumes shall be from January 1st to December 31st of the particular year, but any matter which had not been received in time for insertion in the previous volume shall also be included therein.

Distinctive Character of cards.

The editorial work will be greatly facilitated by ruling a red line near the left-hand edge of the title slips, a green line near the left-hand edge of the subject slips, and no line at all on the taxonomy and new species slips. Or the slips may be printed on thin card of three colours, viz., red for the title slips, green for the subject slips, and white for the systematic slips. The size of the slips must be 16 cm. by 8 cm.

(4) *Listen neuer Gattungen und Arten.*—Zur Herstellung dieser Listen sollten die Regionalbureaus die Namen der Gattungen und Untergattungen angeben, (a) die neu sind, (b) deren Bedeutung sich geändert hat, (c) die neue Arten enthalten. Diese können am Fusse der System-Zettel angeführt werden, es würde jedoch zur schnelleren Erscheinung des Bandes wesentlich beitragen, wenn die Regionalbureaus jede neue Gattung auf einem besonderen Zettel schreiben und diesen an den System-Zettel hefteten.

Termin des Empfangs der Zettel.

Das Material für irgend ein Jahr darf nicht später als Ende Juni des folgenden Jahres in den Besitz des Centralbureaus gelangen. Die Regionalbureaus werden daher dringend ersucht, mit dem Katalogisieren ihrer zoologischen Literatur bis zu dem genannten Termin fertig zu werden.

Die in irgend einem der jährlichen Bände veröffentlichte Litteratur soll die Periode vom 1. Januar bis zum 31. December des betreffenden Jahres decken, etwaige Artikel aber, die für den vorigen Band zu spät eintrafen, werden darin mit aufgenommen.

Markierung der Zettel.

Die Herausgabe wird bedeutend erleichtert werden, wenn auf den Titel-Zetteln nahe dem linken Rande eine rothe Linie, auf den Sach-Zetteln entsprechend eine grüne Linie gezogen wird, während die Taxonomie- und Arten-Zettel ohne Linie bleiben. Man kann auch die Zettel auf drei verschiedenfarbige Sorten Carton drucken, nämlich die Titel-Zettel auf roten, die Sach-Zettel auf grünen und die System-Zettel auf weissen.

Die Zettel müssen 16 × 8 cm. gross sein.

(4) *Listes des genres et espèces nouvelles.*—Pour la rédaction de ces listes les Bureaux Régionaux doivent donner les noms des genres et sous-genres (a) qui sont nouveaux, (b) dont la signification est changée, (c) qui contiennent des espèces nouvelles. Ils peuvent être écrits au pied des fiches systématiques, pourtant si les Bureaux Régionaux voulaient écrire chaque genre nouveau sur une fiche séparée et l'attacher à la fiche systématique, cela contribuerait beaucoup à accélérer la publication du volume.

Date de la réception des fiches.

La période pendant laquelle les matières pour une année quelconque seront admises par le Bureau Central ne s'étendra pas au-delà du mois de juin de l'année suivante. Aussi les Bureaux Régionaux sont-ils instamment priés de compléter l'index de leur littérature zoologique avant l'expiration de ce terme.

La littérature indexée dans un volume annuel quelconque comprendra la période du 1^{er} janvier au 31 décembre de l'année en question, ainsi que les articles qui étaient arrivés trop tard pour être incorporés dans le volume précédent.

Caractère distinctif des fiches.

Le travail du Directeur sera grandement facilité si l'on trace une ligne rouge près du bord gauche des fiches de titre, une ligne verte près du bord gauche des fiches de matière, et si l'on ne trace aucune ligne sur les fiches systématiques et sur les fiches pour les espèces nouvelles. On peut aussi imprimer les fiches sur des cartons minces de trois couleurs, savoir, une carte rouge pour les fiches de titre, une carte verte pour les fiches de matière, et une carte blanche pour les fiches systématiques.

Les dimensions des fiches doivent être de 16 cm. sur 8 cm.

(4) *Elenchi di Generi e Specie nuove.*—Per la redazione di questi elenchi gli Uffici Regionali devono dare i nomi dei generi e sottogeneri, (a) che sono nuovi, (b) il cui significato si è cambiato, (c) che contengono delle specie nuove. Questi possono essere scritti in fondo alle schede sistematiche, ma contribuirebbe molto ad accelerare la pubblicazione del tomo se gli Uffici Regionali scrivessero ogni genere nuovo sopra una scheda separata e attaccassero questa alla scheda sistematica.

Data di ricezione delle schede.

Il periodo durante il quale il materiale per un anno qualunque sarà ammesso dall' Ufficio Centrale non si stenderà in là di Giugno dell'anno seguente. Gli Uffici Regionali sono perciò pregati con istanza di completare il catalogo della loro letteratura zoologica dentro del detto termine.

La letteratura catalogata in un tomo annuale qualunque comprenderà il periodo dal 1^o Gennaio al 31 Dicembre dell' anno di cui si tratta, coll' aggiunto di quegli articoli che fossero ricevuti troppo tardi per essere inclusi nel tomo precedente.

Carattere disiintivo delle schede.

Il lavoro dell' Ufficio Centrale sarà grandemente facilitato dal segnare il margine sinistro delle schede a titolo con una linea rossa. quello delle schede a soggetto con una verde, e dal lasciare senza linea le schede tassonomiche e quelle per le specie nuove. Oppure le schede potranno essere scritte su carta di tre colori, rosso, verde, e bianco, il primo per le schede a titolo, il secondo per quelle a soggetto, il terzo per quelle sistematiche.

Il formato delle schede devlessere di 16 per 8 centimetri di lato.

0000-0231. Comprehensive Zoology.

N.B.—The subjects enumerated under numbers 0000 to 0231 may recur in any one of the subsequent Branches. In the Catalogue only works that deal with several Branches will be registered under numbers 0000 to 0231; hence the term "Comprehensive Zoology."

HYPERZOOLOGY.

- 0000 Philosophy.
- 0010 History. Biography.
- 0020 Periodicals. Reports of Institutions, Societies, Congresses, Explorations.
- 0030 General Treatises, Text-books, Dictionaries, Collected Works, Tables.
- 0032 Bibliographies.
- 0040 Addresses, Lectures, etc., of a general character.
- 0050 Pedagogy.
- 0060 Institutions, Museums, Collections, Aquaria, Gardens, Utility and Harmfulness, Zoology in relation to Medicine, etc. (*See also the general sections of Special Zoology.*)
- 0070 Nomenclature (principles of).
- 0090 Technique. Methods of research, instruments and apparatus.
- 0207 STRUCTURE (OR MORPHOLOGY). [In general or of more than one of the classes of animals.] (*See also (L) General Biology (O) Anatomy and (Q) Physiology.*)

General; Comparative Anatomy; Special Anatomy and Histology: Tegument and its Organs; Nervous System and Organs of Sense; Myology; Skeleton (including Osteology and Dentition); Skeletal Structures of Invertebrates; Alimentary System: Circulatory and Respiratory Organs; Water Vascular System, Blood, Lymph, Cœlomic Fluid, Chyle. Special Glands; Excretory Organs; Reproductive Organs; Special External Characters; Colour. Rudimentary or Vestigial Organs, and Organs of uncertain nature.

0000-0231. Allgemeine Zoologie.

N.B.—Die unter Nr. 0000 bis 0231 aufgeführten Gegenstände können in jedem der nachfolgenden Zweige wiederkehren. Unter Nr. 0000-0231 bringt der Katalog nur solche Arbeiten, die mehrere Zweige behandeln. Daher der Ausdruck „Allgemeine Zoologie.“

HYPERZOOLOGIE.

- Philosophie.
- Geschichte. Biographien.
- Periodica. Berichte von Instituten, Gesellschaften, Kongressen, Forschungsreisen etc.
- Allgemeine Abhandlungen, Lehrbücher, Wörterbücher, Sammelwerke, Tabellen.
- Bibliographien.
- Festreden, Vorträge u.s.w., allgemeiner Art.
- Pädagogik.
- Institute, Museen, Sammlungen, Aquarien, Gärten, Nützlichkeit und Schädlichkeit, Zoologie in Beziehung zur Medizin etc. (*Siehe auch die allgemeinen Abteilungen der speciellen Zoologie.*)
- Nomenklatur (Prinzipien).
- Technik. Untersuchungsmethoden. Instrumente and Apparate.
- STRUKTUR (ODER MORPHOLOGIE). [Im allgemeinen oder von mehreren Tierklassen.] (*Si he auch (L) Allgemeine Biologie, (O) Anatomie und (Q) Physiologie.*)
- Allgemeines; Vergleichende Anatomie; Speciell Anatomie und Histologie: Tegument und seine Organe; Nervensystem und Sinnesorgane: Myologie: Skelett (einschl. Osteologie und Zahnbildung); Inneres Skelett bei Wirbellosen; Ernährungssystem: Circulations- und Respirationsorgane; Wassergefässsystem, Blut, Lymphe, Cœlomflüssigkeit, Chylus. Speciell Drüsen; Excretions-Organe; Reproduktive Organe; Speciell äussere Charaktere; Farbe. Rudimentäre oder unentwickelte Organe und Organe ungewisser Natur.

0000-0231. Zoologie générale.

N.B.—Les sujets énumérés sous les indices 0000 à 0231 peuvent être représentés dans chacune des “branches” suivantes ; mais c'est seulement les ouvrages ayant trait à plusieurs “branches” qui doivent être catalogués sous les numéros 0000 à 0231 ; de là le terme de “Zoologie générale.”

HYPERZOOLOGIE.

- 0000 Philosophie.
- 0010 Histoire. Biographie.
- 0020 Périodiques. Rapports d'Institutions, de Sociétés, de Congrès, d'Explorations, etc.
- 0030 Traités généraux, Manuels, Dictionnaires, Recueils, Tables.
- 0032 Bibliographies.
- 0040 Discours, Cours, etc., d'un caractère général.
- 0050 Enseignement.
- 0060 Institutions, Musées, Collections, Aquaria, Jardins, Utilité et Nocuité. Zoologie en rapport avec la Médecine, etc. (*Voy aussi les sections générales de la Zoologie spéciale.*)
- 0070 Nomenclature (principes de).
- 0090 Technique. Méthodes de recherche, instruments et appareils.
- 0207 STRUCTURE (OU MORPHOLOGIE). [En général ou dans plusieurs classes d'animaux.] (*Voy. aussi (L) Biologie Générale, (O) Anatomie et (Q) Physiologie.*)

Généralités ; Anatomie comparée ; Anatomie spéciale et Histologie (*ex. organes tégumentaires*) ; Système nerveux et organes des sens ; Myologie ; Squelette (*y compris Ostéologie et Dentition*) ; Structure des Invertébrés ; Système digestif ; Appareils de la circulation et de la respiration ; Système aquifère vasculaire, sang, lymphe, liquide de la cavité générale, chyle. Glandes spéciales ; Organes d'excrétion ; Organes de reproduction ; Organes externes spéciaux ; Couleur. Organes rudimentaires ou vestiges d'organes anciens ; Organes de nature incertaine.

0000-0231. Zoologia comprensiva.

I soggetti designati coi numeri 0000 a 0231 possono ricorrere in ognuno dei seguenti rami. Nel catalogo, tuttavia, soltanto i lavori che trattano di diversi rami saranno registrati sotto i numeri 0000 a 0231 ; di qui il termine “Zoologia comprensiva.”

IPERZOOLOGIA.

- Filosofia.
- Storia. Biografia.
- Periodici. Resoconti di Istituti, Società, Congressi, Esplorazioni.
- Trattati generali, Libri di testo, Dizionari, Raccolte, Tavole.
- Bibliografie.
- Discorsi, Letture, etc., aventi un carattere generale.
- Pedagogia.
- Istituti, Musei, Collezioni, Aquaria, Giardini, Utilità e Nocività. Zoologia in rapporto alla medicina. (*Vedi anche le sezioni generali della Zoologia speciale.*)
- Principi di Nomenclatura.
- Tecnica. Metodi di ricerca, strumenti ed apparati.
- STRUTTURA (O MORFOLOGIA). [In generale oppure di più di una classe di animali.] (*Vedi anche (L) Biologia Generale, (O) Anatomia e (Q) Fisiologia.*)

Generalità ; Anatomia comparata ; Anatomia speciale e Istologia ; Tegumento e suoi organi ; Sistema nervoso e organi di senso ; Miologia ; Scheletro (*incl. Osteologia e Dentizione*) ; Strutture interne scheletriche degli invertebrati ; Apparecchio alimentare ; Organi della circolazione e della respirazione ; Sistema acquifero vascolare, Sangue, Linfa, Liquido celomatico, Chilo ; Glandule speciali ; Organi escretori ; Organi riproduttivi. Caratteri speciali esterni ; Colore. Organi rudimentali e in vestigio e organi di natura incerta.

- 0211 **PHYSIOLOGY** [of the Animal Kingdom, or of more than one of its Branches]. (*See also* (Q) Physiology.)

[Physiology will be treated as a separate science. In zoology it is therefore only necessary to collect those physiological memoirs that specially interest zoologists; hence a detailed division is superfluous, but the following may be cited as examples to come under this heading.]

General; Production of Sex; Production of Caste; Function of Sense Organs; Function of Special Organs and Structures, *e.g.*, of Glands; Assimilation; Respiration; Environmental Effects; Change of Function; Adaptation. Duration of Life; Senescence; Death.

- 0215 **DEVELOPMENT.** [General works on more than one of the Branches.] (*See also* L 2000-5900; O 1500-1940.)

General; Budding and Asexual Reproduction; Oogenesis and Ovum; Spermatogenesis and Spermatozoon; Phenomena of Fertilization; Parthenogenesis; Embryology, Organogeny and Histogeny; Metamorphosis and Larval Forms; Post-embryonic Ontogeny; Alternation of Generations; Pædogenesis; Dissogony; Cycles of Generations; Changes during Life; Regeneration; Hermaphroditism.

For cell-structure and processes *see* (L) General Biology—Cytology.

- 0219 **ETHOLOGY.** [Works dealing with one or more of the following subjects, and relating to more than one Branch of the Animal Kingdom.]

General; Habits; Phenology; Migration and Nonmigration; Hibernation; Parental Relations; Sexual Relations; Sexual Dimorphism; Oviposi-

- PHYSIOLOGIE** [des Tierreichs oder mehrerer seiner Zweige]. (*Siehe auch* (Q) Physiologie.)

[Physiologie wird als besondere Wissenschaft behandelt werden. In „Zoologie“ brauchen daher nur solche physiologische Abhandlungen aufgeführt zu werden, die speciell den Zoologen interessieren. Darum ist eine detaillierte Einteilung hier überflüssig, doch mag das Folgende als Beispiel dienen.]

Allgemeines; Hervorbringung des Geschlechtes, der Rasse; Funktion der Sinnesorgane; Funktion besonderer Bildungen, z. B. Drüsen; Assimilation; Atmung; Wirkung der Umgebung; Funktionswechsel; Anpassung. Lebensdauer; Altern; Tod.

- ENTWICKELUNG.** [Allgemeine Werke über mehr als einen der Zweige.] (*Siehe auch* L 2000-5900; O 1500-1940.)

Allgemeines; Knospenbildung und ungeschlechtliche Fortpflanzung; Oogenesis und Ovum; Spermatogenesis und Spermatozoon; Befruchtungs-Phänomene; Parthenogenesis; Embryologie, Organogenie und Histogenie; Metamorphose und Larvenformen; postembryonale Ontogenie; Generationswechsel; Pædogenesis; Dissogonie; Generations-Cyklen; Veränderungen während des Lebens; Regeneration; Hermaphroditismus.

Zell-Struktur und -Prozesse *siehe* (L) Allgemeine Biologie—Cytologie.

- ETHOLOGIE.** [Arbeiten, die einen oder mehrere der folgenden Gegenstände behandeln und sich auf mehr als einen Zweig des Tierreichs beziehen.]

Allgemeines; Lebensgewohnheiten; Phänologie; Wanderung und Nichtwanderung; Winterschlaf; Beziehungen zwischen Eltern und Nachkommenschaft;

0211 **PHYSIOLOGIE** [du règne animal ou de plusieurs branches du règne animal]. (*Voy. aussi* (Q) *Physiologie*.)

[La Physiologie doit être traitée comme une science distincte ; en conséquence, en Zoologie il ne sera nécessaire de relever que les mémoires de physiologie qui intéressent spécialement les zoologistes ; une division détaillée est donc superflue, néanmoins on peut citer la suivante comme exemple]

Généralités ; Production des sexes ; Formation des genres ; Fonctions des organes des sens ; Fonctions des organes de structure spéciale (*ex.* des glandes) ; Assimilation ; Respiration ; Influence du milieu ; Changement de fonction ; Adaptation ; Durée de la vie ; Sénescence ; Mort.

0215 **DÉVELOPPEMENT**. [Ouvrages généraux ayant trait à plusieurs "branches."] (*Voy. aussi* L 2000-5900 ; O 1500-1940.)

Généralités ; Bourgeonnement et reproduction asexuée ; Oogenèse et œuf ; Spermatogenèse et Spermatozoïdes ; Phénomènes de fécondation ; Parthénogenèse ; Embryologie, organogénie et histogénie ; Métamorphose et formes larvaires ; Ontogénie postembryonnaire ; Générations alternantes ; Pédogenèse ; Dissogonie ; Cycles de générations ; Changements pendant la vie ; Régénération ; Hermaphrodisme.

Pour la structure et les processus cellulaires *voir* (L) *Biologie générale*—Cytologie.

0219 **ETHOLOGIE**. [Ouvrages traitant d'un ou de plusieurs des sujets suivants et se rapportant à un ou à plusieurs embranchements du règne animal].

Généralités ; Habitudes ; Phénologie ; Migration et non-migration ; Hibernation ; Relations de parenté ; Relations sexuelles ; Dimorphisme sexuel ; Ponte ;

FISIOLOGIA [del Regno animale o di più di uno dei suoi rami]. (*Vedi anche* (Q) *Fisiologia*.)

[La fisiologia sarà trattata come una scienza separata. Nella zoologia è perciò soltanto necessario raccogliere quelle memorie di fisiologia che più specialmente possono interessare lo zoologo ; quindi una divisione particolareggiata è superflua, ma ciò che segue può rappresentare la divisione di questo capitolo.]

Generalità : Produzione dei sessi ; Produzione di caste ; Funzione degli organi di senso ; Funzione di speciali organi, *p. es.* le glandule ; Assimilazione ; Respirazione ; Effetti dell' ambiente ; Cambiamento di funzione ; Adattamento. Durata della vita ; Senescenza ; Morte.

SVILUPPO. [Lavori generali su più di uno dei rami.] (*Vedi anche* L 2000-5900 ; O 1500-1940.)

Generalità ; Gemmazione e riproduzione asessuale ; Oogenesi e Uovo ; Spermatogenesi e Spermatozoide ; Fenomeni di Fecondazione ; Partenogenesi ; Embriologia, organogenia ed istogenia ; Metamorfosi e forme larvali ; Ontogenia postembrionale ; Alternanza delle generazioni ; Pedogenesi ; Dissogonia ; Cicli delle generazioni ; Cambiamenti durante la vita ; Rigenerazione ; Ermafroditismo.

Per la struttura cellulare e i processi di sviluppo *vedi* (L) *Biologia generale*—Citolgia.

ETOLOGIA. [Lavori aventi a che fare con uno o più dei soggetti seguenti e relativi ad uno o più rami del regno animale.]

Generalità ; Abitudini ; Fenologia ; migrazione e non migrazione ; ibernazione ; rapporti parentali ; rapporti sessuali ; dimorfismo sessuale

tion; Voice; Sound Production; (*see also* Q 4145). Luminosity; (*see also* Q 0260). Habitat with sub-divisions, *e.g.*, Cavernicolous Animals, Pelagic and Deep-sea Animals (plankton), etc.; Instinct and Psychology; Social Relations; Gregariousness; Symbiosis; (*see also* L 5550; Q 0285; R 1640); Parasitism; Defensive Processes (including Protective Coloration, Mimicry and Protective Resemblance); Ornament and Colour; Breeding and Acclimatisation.

Sexuelle Beziehungen; Sexueller Dimorphismus; Eiablage; Stimme; Hervorbringung von Lauten (*siehe auch* Q 4145); Leuchtvermögen (*siehe auch* Q 0260); Habitat mit Unterabteilungen, z. B. Höhlentiere, pelagische und Tiefsee-Tiere (Plankton) u. s. w.; Instinkt und Psychologie; Soziale Beziehungen; Heerdenleben; Symbiose (*siehe auch* L 5550; Q 0285; R 1640); Parasitismus; Verteidigungs-Processe (einschl. Schutzfärbung, Mimikry und schützende Ähnlichkeiten); Schmuck und Farbe; Züchtung und Akklimatisation.

0223 VARIATION AND ÆTIOLOGY. [Works dealing with one or more of the following subjects and relating to more than one Branch of the Animal Kingdom.] (*See also* (L) General Biology, and (Q) Physiology.)

General; Substantive variation; size, proportions, form, colour, etc. Meristic variations; numerical [meristic proper]; homoeotic; teratological. Bionomic variation; of fertility; of time of appearance; of maturity; of development; of habits. Phylogeny.

Or indexed alternatively or supplementally, with reference to treatment—descriptive, statistical, mathematical; geographical or stational.

Heredity. Grafts. Crosses and Hybrids. In-breeding. Telegonny. Evolution. (*See also* K 0200; L 4300.)

0227 GEOGRAPHICAL ZOOLOGY.

Geographical Distribution. [Works relating to the principles and modes of distribution.]

Topographical Zoology. [Works relating to the Fauna of one or more of the sub-divisions used in (J) Geography, and dealing

VARIATION UND ÆTIOLOGIE. [Arbeiten, die einen oder mehrere der folgenden Gegenstände behandeln und sich auf mehr als einen Zweig des Tierreichs beziehen.] (*Siehe auch* (L) Allgemeine Biologie und (Q) Physiologie.)

Allgemeines; Substantielle Variation; Grösse, Proportionen, Form, Farbe etc. Meristische Variationen; numerische (meristische im eigentlichen Sinne); homoeotische; teratologische. Bionomische Variation; in Hinsicht auf Fruchtbarkeit, auf Erscheinungszeit; auf Zeit der Reife; auf Entwicklung; auf Lebensgewohnheiten. Phylogenie.

Hierneben oder als Ergänzung eine Einteilung mit Rücksicht auf die Art der Behandlung—obdescriptiv, statistisch, mathematisch; geographisch oder nach Standort.

Vererbung. Pfropfen. Kreuzungen und Bastardbildungen. Inzucht. Telegonie. Evolution. (*Siehe auch* K 0200; L 4300.)

GEOGRAPHISCHE ZOOLOGIE.

Geographische Verbreitung. [Arbeiten, die sich auf die Prinzipien und die Arten der Verbreitung beziehen.]

Topographische Zoologie. [Arbeiten, die sich auf die Fauna einer oder mehrerer der Unterabteilungen in (J) Geographie,

Voix; Productions des sons; (*Voy aussi* Q 4145.) Production de la lumière; (*Voy. aussi* Q 0260.) Habitat avec subdivisions, *ex.* Animaux cavernicoles; Animaux pélagiques et des zones abyssales (plankton), etc.; Instinct et Psychologie; Relations sociales; Instincts sociaux; Symbiose; (*Voy. aussi* L 5550; Q 0285; R 1640); Parasitisme; Procédés de défense; Ressemblance (y compris la coloration protectrice, le mimétisme et la ressemblance protectrice); Ornaments et couleur; Elevage et acclimatation.

0223 VARIATION ET ETIOLOGIE. [Ouvrages traitant d'un ou de plusieurs des sujets suivants, et ayant trait à plus d'une branche du règne animal.] (*Voy. aussi* (L) Biologie Générale et (Q) Physiologie.)

Généralités; Variations traitées en elles-mêmes; Taille, proportions, forme, couleur, etc. Variations méristiques; variations numériques (méristiques proprement dites); homéotiques; tératologiques. Variations bionomiques, variations de fécondité; variations dans l'époque d'apparition, la maturité, le développement, les habitudes. Phylogénie.

Variations traitées d'une façon supplémentaire dans les ouvrages descriptifs, statistiques, mathématiques, géographiques.

Hérédité. Greffes. Croisements et Hybrides. Unions consanguines. Télégonie. Évolution. (*Voy. aussi* K 0200; L 4300.)

0227 ZOOLOGIE GÉOGRAPHIQUE.

Distribution géographique des animaux. [Ouvrages ayant trait aux principes et aux modes de distribution géographique.]

Zoologie topographique. [Ouvrages ayant trait à la faune d'une ou de plusieurs des subdivisions employées en (J)

oviposizione: voce; produzione di suoni (*v. anche* Q 4145); luminosità (*v. anche* Q 0260); Habitat con suddivisioni, *p. es.* animali cavernicoli, animali pelagici e delle zone abissali (plankton), etc.: istinto e psicologia; rapporti sociali; istinti gregari; simbiosi (*v. anche* L 5550; Q 0285; R 1640); parasitismo; processi difensivi (compresi la colorazione protettiva, il mimetismo e la rassomiglianza protettiva); ornamenti e colore; Allevamento ed acclimatazione.

VARIAZIONE ED ETIOLOGIA. [Lavori aventi a che fare con uno o più dei soggetti seguenti e relativi ad uno o più rami del regno animale.] (*Vedi anche* (L) Biologia Generale e (Q) Fisiologia).

Generalità; Variazione sostanzialmente considerata; dimensioni, proporzioni, forma, colore, etc. Variazioni meristiche; numeriche (meristiche vere e proprie); omeotiche; per teratologia. Variazioni bionomiche; di fecondità; di epoca di apparizione; di maturità; di sviluppo; di abitudini. Filogenia.

Oppure considerata alternativamente e supplementariamente sotto il punto di vista descrittivo, statistico, matematico, geografico o stazionario.

Eredità. Innesti. Incrociamenti e ibridismi. Consanguineità. Telegonia. Evoluzione. (*Vedi anche* K 0200; L 4300).

ZOOLOGIA GEOGRAFICA.

Distribuzione geografica. [Lavori relativi ai principi e ai modi di distribuzione.]

Zoologia topografica. [Lavori relativi alla Fauna di una o più delle suddivisioni adottate in (J) Geografia, e riferentisi a

with more than one of the Branches of Zoology.]

beziehen und mehr als einen Zweig der Zoologie umfassen.]

0231 **TAXONOMY or CLASSIFICATION** in general.

[In this are to be placed works dealing with the principles of zoological classification; works discussing the classification of more than one of the Branches; works dealing with the relations of the great groups of existing animals; phylogenetic classification, *i.e.*, the relations in time of the great groups of animals. Works relating to the classification of only one of the Branches are to be dealt with in that Branch.]

TAXONOMIE ODER KLASSIFIKATION IM ALLGEMEINEN.

[Hierher sind Arbeiten zu stellen, welche die Prinzipien der zoologischen Klassifikation behandeln; ferner Arbeiten, welche die Klassifikation von mehr als einem der Zweige discutieren; Arbeiten, welche die Beziehungen der grossen Gruppen der lebenden Tierwelt behandeln; phylogenetische Klassifikation, d. h. die zeitlichen Beziehungen der grossen Tiergruppen. Dagegen sind Arbeiten, die sich auf die Klassifikation eines einzelnen Zweiges beziehen, bei diesem zu erledigen.]

0400-6031 Special Zoology.

0400-6031 Spezielle Zoologie.

0400-0431 Protozoa. (*See also* R 1200.)

Protozoa. (*Siehe auch* R 1200.)

The principal divisions are:—

Mycetozoa; Rhizopoda (Radiolaria, Heliozoa, Foraminifera, Amœbaea, Proteomyxa); Sporozoa (Gregarinida, Coccidiidea, Haemosporidia, Myxosporidia, Sarcosporidia); Mastigophora (Flagellata, Dinoflagellata); Infusoria (Acinetaria, Ciliata).

Hauptabteilungen sind:—

Mycetozoa; Rhizopoda (Radiolaria, Heliozoa, Foraminifera, Amœbaea, Proteomyxa); Sporozoa (Gregarinida, Coccidiidea, Haemosporidia, Myxosporidia, Sarcosporidia); Mastigophora (Flagellata, Dinoflagellata); Infusoria (Acinetaria, Ciliata).

0600-0631 Porifera (or Spcngida).

The principal divisions are:—

Calcarea; Hexactinellida; Demospongiae (Carnosa, Tetractinellida, Monaxonida, Keratosa, Myxospongida).

Porifera (oder Spcngida).

Hauptabteilungen sind:—

Calcarea; Hexactinellida; Demospongiae (Carnosa, Tetractinellida, Monaxonida, Keratosa, Myxospongida).

0300-0831 Coelenterata (or Cnidaria).

The principal divisions are:—

Graptolites; Hydromedusae; Scyphomedusae; Monticuliporidae; Stromatoporidae; Aleyonaria; Zoantharia; Ctenophora.

Cœlenterata (oder Cnidaria).

Hauptabteilungen sind:—

Graptolites; Hydromedusae; Scyphomedusae; Monticuliporidae; Stromatoporidae; Alevonaria; Zoantharia; Ctenophora.

1000-1031 Echinodermata.

The principal divisions are:—

Cystoidea; Crinoidea; Blastoida; Asteroidea; Ophiuroidea; Echinoidea; Holothurioidea.

Echinodermata.

Hauptabteilungen sind:—

Cystoidea; Crinoidea; Blastoida; Asteroidea; Ophiuroidea; Echinoidea; Holothurioidea.

Géographie et ayant trait à plus d'une branche de la Zoologie.]

0231 **TAXONOMIE ou CLASSIFICATION en général.**

[Dans cette division doivent être placés les ouvrages traitant des principes de la classification zoologique; les ouvrages discutant la classification de plus d'une "branche"; les ouvrages traitant des relations des grands groupes d'animaux de la faune actuelle; la classification phylogénétique, c'est à dire les relations anciennes entre les grands groupes d'animaux. Les ouvrages ayant trait à la classification d'une branche isolée seront traités à propos de cette branche.]

0400-6031. **Zoologie spéciale.**

0400-0431 **Protozoaires.** (*Voy. aussi R 1200.*)

Voici les divisions principales:—

Mycétozoaires; Rhizopodes (Radiolaires, Héliozoaires, Foraminifères, Amœbiens, Protéomyxes); Sporozoaires (Grégariinides, Coccidiides, Haemosporidies, Myxosporidies, Sarcosporidies); Mastigophores (Flagellés, Dinoflagellés); Infusoires (Acinétiens, Ciliés).

0600-0631 **Porifères (ou Spongiaires).**

Voici les divisions principales:—

Calcaires; Hexactinellides; Démospongiaires (Carnosa, Tetractinellides, Monaxonides, Kératosa, Myxospongiaires).

0800-0831 **Cœlentérés (ou Cnidaria).**

Voici les divisions principales:—

Graptolites; Hydroméduses; Scyphoméduses; Monticuliporides; Stromatoporides; Aleyonaires; Zoanthaires; Cténophores.

1000-1031 **Échinodermes.**

Voici les divisions principales:—

Cystoïdes; Crinoïdes; Blastoïdes; Astéroïdes; Ophiuroïdes; Echinoïdes; Holothurioides.

più di uno dei rami della zoologia.]

TASSONOMIA E CLASSIFICAZIONE IN GENERALE.

[Qui saranno posti i lavori che trattano dei principî della classificazione zoologica; i lavori discutenti la classificazione di più di un ramo; i lavori riguardanti le relazioni tassonomiche dei grandi gruppi degli animali esistenti; la classificazione filogenetica, ossia le relazioni nel tempo dei grandi gruppi di animali. I lavori relativi alla classificazione di uno solo dei rami sono trattati in quel ramo.]

0400-6031. **Zoologia Speciale.**

Protozoa. (*Vedi anche R 1200.*)

Le divisioni principali sono:—

Mycetozoa; Rhizopoda (Radiolaria, Heliozoa, Foraminifera, Amœbaea, Proteomyxa); Sporozoa (Gregarinida, Coccidiidea, Haemosporidia, Myxosporidia, Sarcosporidia); Mastigophora (Flagellata, Dinoflagellata); Infusoria (Acinetaria, Ciliata).

Porifera (vel Spongida).

Le divisioni principali sono:—

Calcarea; Hexactinellida; Demospongiae (Carnosa, Tetractinellida, Monaxonida, Keratosa, Myxospongida).

Cœlenterata (vel Cnidaria).

Le divisioni principali sono:—

Graptolites; Hydromedusae; Scyphomedusae; Monticuliporidae; Stromatoporidae; Aleyonaria; Zoantharia; Ctenophora.

Echinodermata.

Le divisioni principali sono:—

Cystoidea; Crinoidea; Blastoidea; Asteroidea; Ophiuroidea; Echinoidea; Holothurioidea.

1200-1231 **Platyhelminthes. Mesozoa and Trichoplax.**

The principal divisions are :—
Platyhelminthes (Turbellaria, Trematoda, Cestoda, Nemertinea); Mesozoa (Dicyemidae, Orthonec-
tidae); *Trichoplax*.

1400-1431 **Nemathelminthes.**

The principal divisions are :—
Nematoda; Nematomorpha (or Gordiidae); Acanthocephala.

1600-1631 **Chaetognatha. Rotifera. Gastrotricha. Kinorhyncha (or Echinodera).**

1800-1831 **Archiannelida. Polychaeta. Myzostomaria. Oligochaeta. Gephyrea. Phoronis. Hirudinea.**

2000-2031 **Brachiopoda. Bryozoa (or Polyzoa).**

The principal divisions are :—
Brachiopoda.
Bryozoa : Entoprocta; Ectoprocta (Gymnolaema: Cyclostomata, Trepostomata, Cryptostomata, Cheilostomata, Ctenostomata; Phylactolaema).

2200-2231 **Mollusca.**

The principal divisions are :—
Lamellibranchiata (or Pelecypoda) (Order should be given); Scaphopoda; Amphineura.
Gastropoda includes Prosobranchiata (Rhipidoglossa, Ptenoglossa, Taenioglossa, Rachiglossa, Toxoglossa); Heteropoda; Opisthobranchiata (Tectibranchiata, Nudi-branchiata); Pteropoda; Pulmonata (Bassomatophora, Stylomatophora). Families of Prosobranchiata and Pulmonata should be mentioned. See Cambridge Natural History.
Cephalopoda includes Nautiloidea, Ammonoidea, Dibranchiata.

2400-2431 **Arthropoda.**

2431 will not include a systematic arrangement of genera and species.

Platyhelminthes. Mesozoa und Trichoplax.

Hauptabteilungen sind :—
Platyhelminthes (Turbellaria, Trematoda, Cestoda, Nemertinea); Mesozoa (Dicyemidae, Orthonec-
tidae); *Trichoplax*.

Nemathelminthes.

Hauptabteilungen sind :—
Nematoda; Nematomorpha (oder Gordiidae); Acanthocephala.

Chætognatha. Rotifera. Gastrotricha. Kinorhyncha (oder Echinodera).

Archiannelida. Polychæta. Myzostomaria. Oligochæta. Gephyrea. Phoronis. Hirudinea.

Brachiopoda. Bryozoa (oder Polyzoa).

Hauptabteilungen sind :—
Brachiopoda.
Bryozoa : Endoprocta; Ectoprocta (Gymnolaema: Cyclostomata, Trepostomata, Cryptostomata, Cheilostomata, Ctenostomata; Phylactolaema).

Mollusca.

Hauptabteilungen sind :—
Lamellibranchiata (oder Pelecypoda) (Ordnung angeben); Scaphopoda; Amphineura.
Gastropoda umfasst Prosobranchiata (Rhipidoglossa, Ptenoglossa, Taenioglossa, Rachiglossa, Toxoglossa); Heteropoda; Opisthobranchiata (Tectibranchiata, Nudi-branchiata); Pteropoda; Pulmonata (Bassomatophora, Stylomatophora). Familien der Prosobranchiata und Pulmonata angeben. Siehe Cambridge Natural History.

Cephalopoda umfasst Nautiloidea, Ammonoidea, Dibranchiata.

Arthropoda.

2431 wird eine systematische Anordnung der Gattungen und Arten nicht enthalten.

1200-1231 Platyhelminthes. Mésozoaires et le Trichoplax.

Voici les divisions principales :—
Platyhelminthes (Turbellariés, Trématodes, Cestodes, Némertiens); Mésozoaires (Dieyemidæ, Orthonectidæ); *Trichoplax*.

1400-1431 Némathelminthes.

Voici les divisions principales :—
Nématodes; Nématomorphes (ou Gordiens); Acanthocéphales.

1600-1631 Chætognathes. Rotifères. Gastrotriches. Kinorhynques (ou Echinodères).

1800-1831 Archiannélides. Polychètes. Myzostomes. Oligochètes. Géphyriens. Phoronis. Hirudinées.

2000-2031 Brachiopodes. Bryozoaires (ou Polyzoaires).

Voici les divisions principales :—
Brachiopodes.
Bryozoaires: Entoproctes; Ectoproctes (Gymnolèmes: Cyclostomes, Trepustomes, Cryptostomes, Cheilostomes, Cténostomes; Phylactolèmes).

2200-2231 Mollusques.

Voici les divisions principales :—
Lamellibranches (ou Pélécy-podes) (indiquer l'ordre); Scaphopodes; Amphineures.

Les Gastropodes comprennent les Prosobranches (Rhipidoglosses, Pténoglosses, Taenioglosses, Rachiglosses, Toxoglosses); Hétéropodes; Opisthobranches (Tectibranches, Nudibranches); Ptéropodes; Pulmonés (Basomatophores, Stylomatophores). Indiquer les familles des Prosobranches et des Pulmonés. *Voy. la Cambridge Natural History.*

Les Céphalopodes comprennent les Nautilés, Ammonites, Dibranches.

2400-2431 Arthropodes.

2431 ne comprendra pas un arrangement systématique des genres et des espèces.

Platyhelminthes. Mesozoa et Trichoplax.

Le divisioni principali sono :—
Platyhelminthes (Turbellaria, Trematoda, Cestoda, Nemertinea); Mesozoa (Dieyemidæ, Orthonectidæ); *Trichoplax*.

Nemathelminthes.

Le divisioni principali sono :—
Nematoda; Nematomorpha (vel Gordiidæ); Acanthocephala.

Chætognatha. Rotifera. Gastrotricha. Kinorhyncha (vel Echinodera).

Archiannelida. Polychæta. Myzostomaria. Oligochæta. Gephyrea. Phoronis. Hirudinea.

Brachiopoda. Bryozoa (vel Polyzoa).

Le divisioni principali sono :—
Brachiopoda.
Bryozoa: Entoprocta; Ectoprocta (Gymnolaema: Cyclostomata, Trepustomata, Cryptostomata, Cheilostomata, Ctenostomata; Phylactolaema).

Mollusca.

Le divisioni principali sono :—
Lamellibranchiata (vel Pelecy-poda) (indicare l'ordine); Scaphopoda; Amphineura.

Gastropoda includono Prosobranchiata (Rhipidoglossa, Ptenoglossa, Taenioglossa, Rachiglossa, Toxoglossa); Heteropoda; Opisthobranchiata (Tectibranchiata, Nudibranchiata); Pteropoda; Pulmonata (Bassomatophora, Stylomatophora). Indicare le famiglie dei Prosobranchiata e Pulmonata. *Vedi Cambridge Natural History.*

Cephalopoda includono Nautiloidea, Ammonoidea, Dibranchiata.

Arthropoda.

2431 non deve includere la disposizione sistematica dei generi e delle specie.

2600-2631 Crustacea.

Entomostraca (= Cirripedia, Ostracoda, Copepoda, Phyllopoda).

Leptostraca.

Arthrostraca (or Edriophthalma) (= Amphipoda, Isopoda, Anisopoda).

[Malacostraca (= Thoracostraca + Arthrostraca).]

Thoracostraca (or Podophthalma) includes Decapoda, Schizopoda, Stomatopoda, Cumacea.

2800-2831 Trilobita. Xiphosura. Eurypterida. Pantopoda. Tardigrada. Linguatulida.

3000-3031 Arachnida.

Arachnida consists of Scorpionida, Pedipalpi, Palpigradi, Araneida, Solifugae, Chernetida (or Pseudoscorpiones), Phalangida (or Opiliones), Acarida (or Acari).

3200-3231 Prototracheata (or Onychophora).

Prototracheata includes only *Peripatus* and its divisions.

3400-3431 Myriopoda.

Myriopoda consists of Chilopoda, Diplopoda (= Pselaphognatha and Chilognatha), Symphyla (or Scolopendrella), Pauropoda.

3500-3531 Insecta.

3531 will not include a systematic arrangement of genera and species.

3600-3631 Apterata (or Apterygogenea). Anoplura. Mallophaga. Thysanoptera (or Physopoda). Siphonaptera (or Aphaniptera).

Apterata, proper, consists of Thysanura and Collembola.

3800-3831 Orthoptera. Neuroptera. Trichoptera.

The principal divisions are :—

Orthoptera (Forficulidae or Dermaptera, Hemimeridae, Blattidae, Mantidae, Phasmodae, Gryllidae, Locustidae, Acridiidae).

Crustacea.

Entomostraca (= Cirripedia, Ostracoda, Copepoda, Phyllopoda).

Leptostraca.

Arthrostraca (oder Edriophthalma) (= Amphipoda, Isopoda, Anisopoda).

[Malacostraca (= Thoracostraca + Arthrostraca).]

Thoracostraca (oder Podophthalma) umfasst Decapoda, Schizopoda, Stomatopoda, Cumacea.

Trilobita. Xiphosura. Eurypterida. Pantopoda. Tardigrada. Linguatulida.

Arachnida.

Arachnida umfasst Scorpionida, Pedipalpi, Palpigradi, Araneida, Solifugae, Chernetida (oder Pseudoscorpiones), Phalangida (oder Opiliones), Acarida (oder Acari).

Prototracheata (oder Onychophora).

Prototracheata umfasst nur *Peripatus* und dessen Abteilungen.

Myriopoda.

Myriopoda umfasst Chilopoda, Diplopoda (= Pselaphognatha und Chilognatha), Symphyla (oder Scolopendrella), Pauropoda.

Insecta.

3531 wird eine systematische Anordnung der Gattungen und Arten nicht enthalten.

Apterata (oder Apterygogenea). Anoplura. Mallophaga. Thysanoptera (oder Physopoda). Siphonaptera (oder Aphaniptera).

Apterata, im eigentlichen Sinne, umfasst Thysanura und Collembola.

Orthoptera. Neuroptera. Trichoptera.

Hauptabteilungen sind :—

Orthoptera (Forficulidae oder Dermaptera, Hemimeridae, Blattidae, Mantidae, Phasmodae, Gryllidae, Locustidae, Acridiidae).

2600-2631 Crustacés.

Entomostracés (= Cirripèdes, Ostracodes, Copépodes, Phyllopoques).

Leptostracés.

Arthrostracés (ou Edriophthalmes) (= Amphipodes, Isopodes, Anisopodes).

[Malacostracés (= Thoracostracés + Arthrostracés).]

Les Thoracostracés (ou Podophthalmes), comprennent les Décapodes, Schizopodes, Stomatopodes, Cumacés).

2800-2831 Trilobites. Xiphosures. Euryptérides. Pantopodes. Tardigrades. Linguatulides.**3000-3031 Arachnides.**

Les Arachnides comprennent les Scorpionides, Pédipalpes, Palpigrades, Aranéides, Solifuges, Chernetes (ou Pseudoscorpions), Phalangides (ou Opilions), Acariens.

3200-3231 Prototrachéates (ou Onychophores).

Les Prototrachéates comprennent seulement le genre *Peripatus* et ses divisions.

3400-3431 Myriapodes.

Les Myriapodes comprennent les Chilopodes, Diplopodes (Psélaphognathes et Chilognathes), Symphylens (ou Scolopendrelles), Paupodes.

3500-3531 Insectes.

3531 ne comprendra pas un arrangement systématique des genres et des espèces.

3600-3631 Aptères (ou Aptérygogénies). Anoploures. Mallophages. Thysanoptères (ou Physopodes). Siphonaptères (ou Aphaniptères).

Les Aptères proprement dits comprennent les Thysanoures et les Collembolles.

3800-3831 Orthoptères. Névroptères. Trichoptères.

Voici les divisions principales :—

Orthoptères (Forficulides ou Dermaptères, Hémiptères, Blattides, Mantides, Phasmides, Gryllides, Locustides, Acridides).

Crustacea.

Entomostraca (= Cirripedia, Ostracoda, Copepoda, Phyllopoda).

Leptostraca.

Arthrostraca (vel Edriophthalma) (= Amphipoda, Isopoda, Anisopoda).

[Malacostraca (= Thoracostraca + Arthrostraca).]

Thoracostraca (vel Podophthalma) includono Decapoda, Schizopoda, Stomatopoda, Cumacea.

Trilobita. Xiphosura. Eurypterida. Pantopoda. Tardigrada. Linguatulida.**Arachnida.**

Arachnida includono Scorpionida, Pedipalpi, Palpigradi, Araneida, Solifugæ, Chernetida (vel Pseudoscorpiones). Phalangida (vel Opiliones), Acarida (vel Acari).

Prototracheata (vel Onychophora).

Nei Prototracheata è incluso il solo *Peripatus* e le sue divisioni.

Myriopoda.

Chilopoda, Diplopoda (= Pselaphognatha e Chilognatha), Symphyla (vel Scolopendrella), Paupoda.

Insecta.

3531 non deve includere la disposizione sistematica dei generi e delle specie.

Aptera (vel Apterygogenea). Anoplura. Mallophaga. Thysanoptera (vel Physopoda). Siphonaptera (vel Aphaniptera).

Gli Aptera propriamente detti consistono nei Thysanura e Collembola.

Orthoptera. Neuroptera. Trichoptera.

Le divisioni principali sono :—

Orthoptera (Forficulidæ vel Dermaptera, Hemimeridæ, Blattidæ, Mantidæ, Phasmidæ, Gryllidæ, Locustidæ, Acrididæ).

Neuroptera (Planipennia, Embiidæ, Termitidæ, Psocidæ, Perlidæ, Ephemeridæ, Odonata).

Each slip relating to Neuroptera should also state to which of these divisions it refers.

Most of the Palaeozoic Insects are to be dealt with in this branch.

4000-4031 Hemiptera (or Rhynchota) excl. Anoplura, which are placed in 3600.

The principal divisions are :—

Hemiptera Heteroptera and Hemiptera Homoptera. [Phytophthires (Aphidæ, Psyllidæ, Aleurodidæ, Coccidæ) are included in Hemiptera Homoptera.]

Families to be mentioned in all cases.

See Cambridge Natural History.

4200-4231 Diptera (excl. Siphonaptera, which are placed in 3600-3631).

The slips should be marked with the name of the family of Diptera. See Cambridge Natural History.

4400-4431 Lepidoptera.

The principal divisions are :—
Rhopalocera ; Heterocera.

The family to be mentioned in all cases. See Cambridge Natural History.

4600-4631 Hymenoptera.

The principal divisions are :—

Aculeata = Anthophila (Apidæ, Andrenidæ), Vespidae (Diploptera), Sphegidæ s.l. (Fossoria). Formicidæ (Heterogyna). Tubulifera = Chrysididæ. Parasitica = Trigonaliidæ, Proctotrupidæ, Pelecinidæ, Chalcididæ. Ichneumonidæ, Braconidæ, Megalyridæ, Evanidæ, Stephanidæ, Cynipidæ. Sessiliventre (or Chalastogastra) = Cephidæ, Siricidæ, Oryssidæ, Tenthredinidæ.

Neuroptera (Planipennia, Embiidæ, Termitidæ, Psocidæ, Perlidæ, Ephemeridæ, Odonata).

Jeder Zettel für Neuroptera soll auch angeben, auf welche dieser Abteilungen er sich bezieht.

Die meisten der paläozoischen Insekten werden bei diesem Zweige zu behandeln sein.

Hemiptera (oder Rhynchota), excl. Anoplura, welche unter 3600 eingeordnet sind.

Hauptabteilungen sind :—

Hemiptera Heteroptera und Hemiptera Homoptera. [Phytophthires (Aphidæ, Psyllidæ, Aleurodidæ, Coccidæ) sind in Hemiptera Homoptera enthalten.]

Familien immer angeben. Siehe Cambridge Natural History.

Diptera (excl. Siphonaptera, welche unter 3600-3631 eingeordnet sind).

Bei den Diptera sind auf den Zetteln die Namen der Familien zu vermerken. Siehe Cambridge Natural History.

Lepidoptera.

Hauptabteilungen sind :—
Rhopalocera ; Heterocera.

Familien immer angeben. Siehe Cambridge Natural History.

Hymenoptera.

Hauptabteilungen sind :—

Aculeata = Anthophila (Apidæ, Andrenidæ), Vespidae (Diploptera), Sphegidæ s.l. (Fossoria). Formicidæ (Heterogyna). Tubulifera = Chrysididæ. Parasitica = Trigonaliidæ, Proctotrupidæ, Pelecinidæ, Chalcididæ. Ichneumonidæ, Braconidæ, Megalyridæ, Evanidæ, Stephanidæ, Cynipidæ. Sessiliventre (oder Chalastogastra) = Cephidæ, Siricidæ, Oryssidæ, Tenthredinidæ.

Névroptères (Planipennes, Embiidæ, Termitidæ, Psocidæ, Perlidæ, Ephéméridæ, Odonates).

Chaque fiche relative aux Névroptères doit aussi indiquer à laquelle de ces divisions elle se rapporte.

La plupart des Insectes paléozoïques devront être traités dans cette branche.

4000-4031 **Hémiptères** (ou **Rhynchotes**) à l'exclusion des **Anoploures**, qui sont placés sous le numéro 3600.

Voici les divisions principales :—
Hémiptères Hétéroptères et Hémiptères Homoptères. [Les Phytophthires (Aphidæ, Psyllidæ, Aleurodides, Coccidæ) sont compris dans les Hémiptères Homoptères.]

Indiquer les familles en tout cas.
Voy. Cambridge Natural History.

4200-4231 **Diptères** (sauf les **Siphonaptères**, qui sont placés sous les numéros 3600-3631).

Les fiches doivent porter le nom de la famille des Diptères. *Voy.* Cambridge Natural History.

4400-4431 **Lépidoptères**.

Voici les divisions principales :—
Rhopalocères ; Hétérocères.
Indiquer la famille en tout cas.
Voy. Cambridge Natural History.

4600-4631 **Hyménoptères**.

Voici les divisions principales :—
Aenleata (ou Porte-aiguillons) = Anthophiles (Apides, Andrenidæ), Vespides (Diploptères) Sphégides s.l. (Fouisseurs) Formicoides (Hétérogynes). Tubulifères = Chrysidides. Parasites = Trigonalides, Proctotrupides, Pélécinides, Chalcidides, Ichneumonides, Braconides, Mégalyrides, Evaniides, Stéphanides, Cynipides. Sessiliventres (ou Chalastogastres) = Céphides, Siricidæ, Oryssides, Tenthredinides.

Neuroptera (Planipennia, Embiidæ, Termitidæ, Psocidæ, Perlidæ, Ephemeridæ, Odonata.)

Ciascuna scheda relativa ai Neuroptera deve stabilire a quale di queste divisioni del gruppo si riferisce.

La maggior parte degli insetti paleozoici riferiscansi a questo ramo.

Hemiptera (vel **Rhynchota**), esclusi **Anoplura**, che sono indicati col numero 3600.

Le divisioni principali sono :—
Hemiptera **Heteroptera** e **Hemiptera Homoptera**. [Phytophthires (Aphidæ, Psyllidæ, Aleurodidæ, Coccidæ) sono inclusi in **Hemiptera Homoptera**.]

Indicare le famiglie in ogni caso.
Vedi Cambridge Natural History.

Diptera (esclusi **Siphonaptera**, che sono indicati dai numeri 3600-3631).

Le schede dovranno portare il nome della famiglia dei Diptera cui si riferiscono. *Vedi* Cambridge Natural History.

Lepidoptera.

Le divisioni principali sono :—
Rhopalocera ; Heterocera.
Indicare la famiglia in ogni caso.
Vedi Cambridge Natural History.

Hymenoptera.

Le divisioni principali sono :—
Aenleata = Anthophila (Apidæ, Andrenidæ), Vespidæ (Diploptera), Sphegidæ s.l. (Fossoria). Formicidæ (Heterogyna. Tubulifera = Chrysididæ. Parasitica = Trigonalidæ, Proctotrupidæ, Pelecinidæ, Chalcididæ, Ichneumonidæ, Braconidæ, Megalyridæ, Evaniidæ, Stephanidæ, Cynipidæ. Sessiliventres (vel Chalastogastrea) = Cephidæ, Siricidæ, Oryssidæ, Tenthredinidæ.

4800-4831 **Coleoptera (incl. Strepsiptera).**

The name of the family referred to should be given on each slip.

The families are numerous. They are included in the Munich Catalogue of the Coleoptera (*Catalogus coleopterorum hucusque descriptorum synonymicus et systematicus*) and (the subsequent additions) in "Cambridge Natural History," vol. vi.

5000-5031 **Prochordata, viz., Leptocardii, Enteropneusta, Tunicata.**5200-5231 **Vertebrata.**

No systematic enumeration is to be placed under 5231.

5400-5431 **Pisces [excl. Leptocardii (or Amphioxus), for which see 5000-5031].**

The principal divisions are :—
Cyclostomi, Ostracodermi, Plagiostomi, Holocephali, Arthrodira, Dipnoi, Teleostomi (or Teleostei and Ganoidei, with the exception of Arthrodira and Ostracodermi).

The family should be mentioned. See Cambridge Natural History.

5600-5631 **Amphibia and Reptilia.**

The principal divisions are :—
Batrachia or Amphibia (Stegocephala or Labyrinthodontia, Apoda, Caudata or Urodela, Ecaudata or Anura).

Reptilia (Anomodontia, Rhynchocephalia, Plesiosauria, Ichthyosauria, Cotylosauria, Pareiasauria, Diaptosauria, Protorosauria, Rhynchosauria, Procolophonia, Proganosauria, Choristodera, Chelonia, Crocodilia, Dinosauria, Ornithosauria or Pterosauria, Ophidia, Pythonomorpha, Rhiptoglossa, Lacertilia).

Coleoptera (incl. Strepsiptera).

Auf jedem Zettel ist der Name der betr. Familie anzugeben.

Die Zahl der Familien ist gross. Sie sind aufgeführt in dem Münchener Coleopteren-Katalog (*Catalogus coleopterorum hucusque descriptorum synonymicus et systematicus*) und (soweit es sich um spätere Zusätze handelt) in „Cambridge Natural History," vol. vi.

Prochordata, d.h., Leptocardii, Enteropneusta, Tunicata.**Vertebrata.**

5231 wird keine systematische Aufzählung enthalten.

Pisces [mit Ausschluss der Leptocardii (oder Amphioxus), siehe 5003-5031].

Hauptabteilungen sind :—
Cyclostomi, Ostracodermi, Plagiostomi, Holocephali, Arthrodira, Dipnoi, Teleostomi (oder Teleostei und Ganoidei, mit Ausnahme von Arthrodira und Ostracodermi).

Familie angeben. Siehe Cambridge Natural History.

Amphibia und Reptilia.

Hauptabteilungen sind :—
Batrachia oder Amphibia (Stegocephala oder Labyrinthodontia, Apoda, Caudata oder Urodela, Ecaudata oder Anura).

Reptilia (Anomodontia, Rhynchocephalia, Plesiosauria, Ichthyosauria, Cotylosauria, Pareiasauria, Diaptosauria, Protorosauria, Rhynchosauria, Procolophonia, Proganosauria, Choristodera, Chelonia, Crocodilia, Dinosauria, Ornithosauria oder Pterosauria, Ophidia, Pythonomorpha, Rhiptoglossa, Lacertilia).

4800-4831 Coléoptères (y compris les Strepsiptères).

Le nom de la famille dont il est question doit être donné sur chaque fiche.

Les familles sont nombreuses. Elles sont indiquées dans le Catalogue des Coléoptères de Munich (Catalogus coleopterorum hucusque descriptorum synonymicus et systematicus) et (pour les additions subséquentes) dans "Cambridge Natural History," vol. vi.

Coleoptera (incl. Strepsiptera).

Il nome della famiglia dev'essere indicato su ciascuna scheda.

Le famiglie sono numerose. Si trovano indicate nel Catalogo dei Coleoptera di Monaco (Catalogus coleopterorum hucusque descriptorum synonymicus et systematicus) e (le susseguenti aggiunte) in "Cambridge Natural History," vol. vi.

5000-5031 Prochordés, c'est à dire, Leptocardiens, Entéropneustes, Tuniciers.

Prochordata, cioè Leptocardii, Enteropneusta, Tunicata.

5200-5231 Vertébrés.

Aucune énumération systématique n'est placée sous le numéro 5231.

Vertebrata.

Non deve porsi alcuna enumerazione sistematica sotto 5231.

5400-5431 Poissons [à l'exception des Leptocardiens (ou Amphioxus), qui se trouvent sous les numéros 5000-5031].

Pisces [escl. Leptocardii (vel Amphioxus), per i quali vedi 5000-5031].

Voici les divisions principales :—
Cyclostomes, Ostracodermes, Plagiostomes, Holocéphales, Arthrodires, Dipnoïques, Téléostomes (ou Téléostéens et Ganoïdes, à l'exception des Arthrodires et des Ostracodermes).

La famille doit être mentionnée. Voy. Cambridge Natural History.

Le divisioni principali sono :—

Cyclostomi. Ostracodermi. Plagiostomi. Holocephali. Arthrodira, Dipnoi, Teleostomi (o Teleostei e Ganoidei, con esclusione di Arthrodira e Ostracodermi).

Indicare la famiglia. Vedi Cambridge Natural History.

5600-5631 Batraciens et Reptiles.

Voici les divisions principales :—

Batraciens ou Amphibies (Stégocéphales ou Labyrinthodontes, Apodes, Caudés ou Urodèles, Ecaudés ou Anoures).

Reptiles (Anomodontes, Rhynchocéphales, Plésiosauriens, Ichthyosauriens, Cotylosauriens, Pareiasauriens, Diaptosauriens, Protorosauriens, Rhynchosauriens, Procolophoniens, Proganosauriens, Choristodères, Chéloniens, Crocodiliens, Dinosauriens, Ornithosauriens ou Ptérosauriens, Ophiidiens, Pythonomorphes, Rhiptoglosses, Lacertiliens).

Batrachia et Reptilia.

Le divisioni principali sono : —

Batrachia vel Amphibia (Stegcephala vel Labyrinthodontia, Apoda. Caudata vel Urodela, Ecaudata vel Anura).

Reptilia (Anomodontia, Rhynchocephalia. Plesiosauria, Ichthyosauria, Cotylosauria, Pareiasauria. Diaptosauria. Protorosauria. Rhynchosauria. Procolophonia, Proganosauria. Choristodera. Chelonia, Crocodilia. Dinosauria, Ornithosauria vel Pterosauria. Ophidia, Pythonomorpha, Rhiptoglossa. Lacertilia).

5800-5831 Aves.

The principal divisions are :—

Acciptres, Aepyornithes, Alcae, Alectorides (including *Cariama*), Anisodaetylae (including Podargidae and *Steatornis*), Anseres (including Phœnicopteri and Palamediidæ), Apteryges, Casuarii, Coccyges, Columbæ, Coraciæ, Crypturi, Cypseli, Dinornithes, Fulicariæ, Gallinæ, Gaviæ, Herodiones, Heterodactylæ, Impennes, Limicolæ, Odontolcæ, Odontormæ, Opisthocomi, Passeres (mention families), Pici, Psittaci, Pterocletes, Pygopodes, Rheæ, Saururæ, Steganopodes, Stereornithes, Striges, Struthiones, Tubinares, Zygodactylæ.

6000-6031 Mammalia.

The principal divisions are :—

Carnivora, Cetacea, Chiroptera, Edentata, Insectivora, Marsupialia, Monotremata, Multituberculata, Primates, Rodentia, Sirenia, Tillodontia, Ungulata (Artiodactyla, Perissodactyla, Subungulata).

Aves.

Hauptabteilungen sind :—

Accipitres, Aepyornithes, Alcæ, Alectorides (einschl. *Cariama*), Anisodactylæ (einschl. Podargidæ und *Steatornis*), Anseres (einschl. Phœnicopteri und Palamediidæ), Apteryges, Casuarii, Coccyges, Columbæ, Coraciæ, Crypturi, Cypseli, Dinornithes, Fulicariæ, Gallinæ, Gaviæ, Herodiones, Heterodactylæ, Impennes, Limicolæ, Odontolcæ, Odontormæ, Opisthocomi, Passeres (Familien angeben), Pici, Psittaci, Pterocletes, Pygopodes, Rheæ, Saururæ, Steganopodes, Stereornithes, Striges, Struthiones, Tubinares, Zygodactylæ.

Mammalia.

Hauptabteilungen sind :—

Carnivora, Cetacea, Chiroptera, Edentata, Insectivora, Marsupialia, Monotremata, Multituberculata, Primates, Rodentia, Sirenia, Tillodontia, Ungulata (Artiodactyla, Perissodactyla, Subungulata).

5803-5831 Oiseaux.

Voici les divisions principales :—

Accipitres, *Æpyornithéens*, Alciens, Alectorien (y compris les *Cariama*), Anisodactyles (y compris les Podargides et les *Steatornis*), Ansériens (y compris les Phœnicoptères et les Palamédiidés), Apterygiens, Casuariens, Cœcygiens, Colombins, Coraciens, Crypturiens, Cypseliens, Dinornithiens, Fulicariens, Gallinacés, Gaviens, Hérodiens, Hétérodactyles, Impennes, Limicoliens, Odontolciens, Odontormiens, Opisthocomes, Passereaux (indiquer les familles), Pics, Perroquets, Ptérocliens, Pygopodes, Rhéens, Saururiens, Stéganopodes, Stéréonithiens, Strigiens, Struthioniens, Tubinariens, Zygodactyles.

6000-6031 Mammifères.

Voici les divisions principales :—

Carnivores, Cétacés, Chiroptères, Édentés, Insectivores, Marsupiaux, Monotrèmes ; Multituberculés, Primates, Rongeurs, Siréniens, Tillodontes, Ongulés [Ungulata] (Artiodactyles, Périssodactyles, Subongulés).

Aves.

Le divisioni principali sono :—

Accipitres, *Æpyornithes*, Alcæ, Alectorides (incl. *Cariama*), Anisodactylæ (incl. Podargidæ et *Steatornis*), Anseres (incl. Phœnicopteri et Palamediidæ), Apteryges, Casuarii, Cœcyges, Columbæ, Coraciæ, Crypturi, Cypseli, Dinornithes, Fulicariæ, Gallinæ, Gaviæ, Herodiones, Heterodactylæ, Impennes, Limicolæ, Odontolæ, Odontormæ, Opisthocomi, Passeres (indicare le famiglie), Pici, Psittaci, Pterocletes, Pygopodes, Rhææ, Saururæ, Steganopodes, Stereornithes, Striges, Struthiones, Tubinares, Zygodactylæ.

Mammalia.

Le divisioni principali sono :—

Carnivora, Cetacea, Chiroptera, Edentata, Insectivora, Marsupialia, Monotremata, Multituberculata, Primates, Rodentia, Sirenia, Tillodontia, Ungulata (Artiodactyla, Perissodactyla, Subungulata).

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I. COMPREHENSIVE ZOOLOGY

ARRANGED BY

D. SHARP

This section includes works that deal with more than one branch of Zoology, or that are of general interest to Zoologists. It is, therefore, not complete in itself as regards any one subject included in it. The special records complete each subject. Many memoirs included in the special records are repeated in this division.

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Abonyi, Sándor. A szülők és a csírasejtek korának hatása az utódokra. [Über den Einfluss des Alters der Eltern und der Keimzellen auf die Nachkömmlinge.] Term. Közl., Budapest, **38**, 1906, (687–689).

Abric, Paul. La symbiose évolutive et la prédestination cytologique. Revue des Idées, Paris, **1**, 1904, (951–957).

Adams, Cha[rle]s C[hristopher]. The postglacial dispersal of the North American biota. Biol. Bull. Wood's Holl, Mass., **9**, 1905, (53–71).

Aderhold, Rud[olf]. 1. Die kaiserliche biologische Anstalt für Land- und Forstwirtschaft in Dahlem bei Steglitz. Berlin, Mitt. biol. Anst., H. **1**, 1906, (2–20).

Aderhold, R. 2. Bericht über die Tätigkeit der kaiserlichen biologischen Anstalt für Land- und Forstwirtschaft im Jahre 1905. (1. Jahresbericht.) Berlin, Mitt. biol. Anst., H. **2**, 1906, (1–40).

Adolphi, H. Ueber das Verhalten von Wirbeltierspermatozoen in strömenden Flüssigkeiten. Anat. Anz., Jena, **28**, 1906, (138–149).

Agassiz, Alexander. General report of the expedition. [Hydrography, character of bottom, bottom and pelagic fauna, sea temperatures, specific gravities of waters, air temperatures, winds, descriptions of the Galapagos, Sala y Gomez, Easter island and Manga Reva.] (Reports on the scientific results of the expedition to the eastern tropical Pacific, in charge of Alexander Agassiz, by the U. S. Fish commission steamer "Albatross," from October, 1904, to

March, 1905, Lieut. Commander L. M. Garrett, U. S. N., commanding. 5.) Cambridge, Mass., Mem. Mus. Comp. Zool. Harvard Coll., **33**, 1906, (xiii + 11. + 1–75 with 8 text fig., 96 pl. interleaved).

Allen, Joel A[saph]. 1. The influence of physical conditions in the genesis of species. [Reprinted, with note and bracketed additions by the author, from the Radical Review, 1, 1877, pp. 108–140.] Washington, D.C., Smithsonian Inst., Rep., **1905**, 1906, (375–402).

Allen, J. A. 2. Subgenera, and other matters. Auk, Cambridge, Mass., N. Ser. **23**, 1906, (122–125).

Allen, J. A. 3. Heredity and subspecies. Science, New York, N.Y., **23**, 1906, (142–141).

Allen, J. A. 4. "Barriers" and "bionomic barriers"; or isolation and non-isolation as bionomic factors. Science, New York, N.Y., **23**, 1906, (310–312).

Allen, J. A. 5. The "elimination" and "first species" methods of fixing the types of genera. Science, New York, N.Y., **24**, 1906, (773–778 and 858).

Alsberg, Moritz. Die Grundlagen des Gedächtnisses, der Vererbung und der Instinkte. (Grenzfragen der Literatur u. Medizin, hrsg. v. S. Rahmer, H. 2.) München (E. Reinhardt), 1906, (38). 24 cm.

Alte, Max. Anleitungen zur graphischen Terraindarstellung. Ent. Jahrb. Leipzig, **16**, 1907, (108–124).

[**Amalitzkij, W. P.**] Амалицкий, В. Р. Значение древних материковъ Россіи въ вопросѣ о происхожденіи наземныхъ позвоночныхъ животныхъ. [Die Bedeutung der alten Kontinente Russlands für die Frage von der Herkunft der Landwirbelthiere.] St.

Peterburg, Trav. Soc. Nat., **37**, 1, 1906, (119-122).

Ameghino, Florentino. Les formations sédimentaires du Crétacé supérieur et du tertiaire de Patagonie. An. Mus. Buenos Aires, Ser. 3, **8**, 1906, (1-568) 3 pls.

Ammann, Josef. Zoologische Beobachtungen auf alpinen Höhen zur kalten Jahreszeit. Natur. u. Offenb., Münster, **52**, 1906, (270-279).

Andres, Angelo. Modificazioni apportate al somatometro a compasso. Milano, Rend. Ist. lomb., Ser. 2, **36**, 1903, (300-302).

Andrussow, M. Maeotische Stufe. St. Peterburg, Verh. Russ. mineral Ges., **43**, 1905, (289-451), Taf. v & vi.

Annandale, N[elson]. Notes on the Freshwater Fauna of India. No. v. Some animals found associated with *Spongilla carteri* in Calcutta. Calcutta, J. As. Soc. Beng., **2**, 1906, (187-196).

Annandale, N. and **Robinson**, Herbert C. Fasciculi malayenses, Zoology, part **3**. Liverpool, 1906, 4to. (1-148), 1 pl.

Anthony, Raoul. Exposé des titres et travaux scientifiques de M. R. Anthony. Paris (Masson), 1906, (100).

Apstein, C[arl]. 1. Das Sammeln und Beobachten von Plankton. [In: Anleitung zu wiss. Beobachtungen auf Reisen. 3. Aufl. Bd 2]. Hannover (M. Jänecke), 1906, (650-682).

Apstein, C. 2. Plankton in Nord- und Ostsee auf den deutschen Terminfahrten. Tl 1. (Volumina 1903.) Wiss. Meeresunters., Kiel, Abt. Kiel, N.F., **9**, 1906, (1-26, i-lix).

Apstein, C. *vide* Brandt, Karl.

Arcangeli, Alceste. Alcune osservazioni riguardo la ricerca microchimica del fosforo nei tessuti animali. Monitore zool. ital., Firenze, **17**, 1906, (221-228).

Ariola, V. Pressione osmotica e potere fecondante nei nematospermi. Genova, Atti Soc. ligustica sc. nat. Geogr., **17**, 1906, (88-96).

Arlt, Theodor. 1. Die tiergeographischen Reiche und Regionen. Geogr. Zs., Leipzig, **12**, 1906, (212-222).

Arlt, T. 2. Der Baikalsee—ein tiergeographisches Rätsel. Natw. Wochenschr., Jena, **21**, 1906, (721-725).

Arnold, George *vide* Moore, J. E. S.

Ashworth, J. H. Zoology at the British Association. Nature, London, **74**, 1906, (550-553).

Auerbach, M[ax]. Ein Desinfektionskasten und ein Transportgefäß für naturwissenschaftliche Museen. Museumskunde, Berlin, **2**, 1906, (143-150).

Avebury, The Lord. The intelligence of animals. Nature, London, **73**, 1906, (315, 316).

Awerintzew, S. Die marine biologische Station an der Murman-Küste. Zool. Anz., Leipzig, **29**, 1906, (704-706).

Babák, E. Experimentelle Untersuchungen über die Variabilität der Verdauungsröhre. Arch. EntwMech. Leipzig, **21**, 1906, (611-702).

Bachmann, H. Der Speziesbegriff. Luzern, Verh. schweiz. natf. Ges., **88**, 1906, (161-208).

Baglioni, S. Einige Daten zur Kenntnis der quantitativen Zusammensetzung verschiedener Körperflüssigkeiten von Sectieren (Fischen und einigen Wirbellosen). Beitr. chem. Physiol., Braunschweig, **9**, 1906, (50-66), 4 Tab.

Baker, Frank Collins. Application of De Vries's mutation theory to the Mollusca. Amer. Nat., Boston, Mass., **40**, 1906, (327-334, with text fig.).

Banks, Nathan. Annual address of the president: A plea for the genus. [With discussion.] Washington, D.C., Proc. Ent. Soc., **8**, 1906, (37-45).

Bard, L. De l'indépendance des deux problèmes de la spécificité sexuelle des ovules et de la production des sexes à volonté. Théorie physique de la sexualité. Arch. zool., Paris, ser. 4, **5**, 1906, notes et revue (i-xvi).

Bardeen, C[harles] R[ussell]. The effects on embryonic development of the Röntgen rays acting on the spermatozoa of the toad previous to fertilization. [Abstract.] New York, N.Y., Proc. Soc. Exp. Biol. Med., **3**, 1906, (72-74).

- Barfurth, Dietrich.** 1. Regeneration peripherer Nerven nach Experimenten von C. F. Walter. C.-R. ass. anat., 7^e session (Genève), **1905**, Nancy, 1906, (164).
- Barfurth, Dietrich.** 2. Regeneration und Involution. 1905. Anat. Hefte, Wiesbaden, ii. Abth., **15**, 1906, (410-529).
- Barker, W. R.** The Bristol museum and art gallery. London, Mus. J., **6**, 1906, (61-89, pls. i-iv.).
- Baron.** De la bêtise du Chien et de la haute intelligence du Mouton, (éthologie et psychologie comparées). Bul. Inst. psych. internat., Paris, **4**, 1904, (75-84).
- Barrington, Amy and Pearson, Karl.** On the inheritance of coat-colour in cattle. Biometrika, Cambridge, **4**, 1906, (427-464).
- Barrows, Franklin W.** Economic zoology. [Reprint.] Buffalo, Bull. Soc. Nat. Hist., **8**, 1903, (1-16).
- Barrows, W. M.** *vide* Castle, W. E.
- Bastien, L.** *vide* Henry, Ch.
- Bataillon, E.** 1. Imprégnation et fécondation. Paris, C.-R. Acad. sci., **142**, 1906, (1351-1353).
- Bataillon, E.** 2. Nouveaux essais sur la maturation de l'œuf chez *Rana fusca*. La segmentation parthénogénésique provoquée par le gel et l'eau distillée. Paris, C.-R. Acad. sci., **143**, 1906, (79-81).
- (Bataillon, E.** 3. Le rôle de la pression osmotique en tératogenèse et en parthogenèse expérimentales. Revue bourguignonne de l'Enseignement Supérieur, Dijon, **11**, 1901, (161-178) [publ. aussi dans Arch. für Entwickl. mech. t. 11].)
- Bateson, W.** An address on Mendelian heredity and its application to man. Brit. Med. J. London, **1906**, **2**, (61-67).
- Bateson, W., Saunders, Miss E. R. and Punnett, R. C.** Report 3. Experimental studies in the physiology of heredity. London, R. Soc. Rep. Evol. Committee, **3**, 1906, 1-53).
- Bather, F. A.** "Elimination" in fixing genotypes. Science, New York, N.Y., **24**, 1906, (809-810).
- Beale, Lionel Smith.** Obituary of. London, J. R. Microsc. Soc., **1906**, (277-279).
- Beauchamp P. de.** Sur la fixation à l'état de l'extension des animalcules contractiles et spécialement des Vorticelles. Paris, Bul. soc. zool., **29**, 1904, (26-27).
- Beede, J[oshua] W[illiam].** A correction [to Cunnings, E. R. and others. Fauna of the Salem limestone. Concerning *Cystelasma rugosum* and *C. quinqueseptatum*.] Science, New York, N.Y., N. Ser., **24**, 1906, (594).
- Beede, J. W. and Rogers, Austin F[lint].** Coal measures faunal studies, 4. Upper coal measures, Neosho river section. Lawrence, Kan. Univ. Sci. Bull., **3**, 1906, (375-388).
- ["Belgica"]** Expedition antarctique belge. Résultats du voyage du S. Y. Belgica en 1897-1898-1899 sous le commandement de A. de Gerlache de Gomery. Zoologie. Anvers 1906.
- Bell, J. Carleton.** Reactions of the crayfish. Harvard Psych. Stud., Boston, Mass., **2**, 1906, (615-644).
- Benedikt, M[oriz] v. Herrera A. L.**
- Bensley, R. R.** An examination of the methods for the microchemical detection of phosphorus compounds other than phosphates in the tissues of animals and plants, pp. 49-65. Woods Holl, Mass. Mar. Biol. Lab. Bull., **10**, 1906, (49).
- Berg, W.** Die Ergebnisse der Ultramikroskopie in Bezug auf die Biologie. Berlin, SitzBer. Ges. natf. Freunde, **1906**, (88-100).
- Bernard, Noël.** Un préjugé dans l'enseignement des Sciences naturelles. Revue du mois, Paris, **1**, 1906, (214-224).
- Berry, Edward W.** 1. Isolation and evolution. Science, New York, N.Y., **23**, 1906, (34).
- Berry, Evis Howard.** 2. The accessory chromosome in *Epeira*. Woods Holl, Mass. Mar. Biol. Lab. Bull., **11**, 1906, (193-201).
- Bidenkap, Olaf.** Polarfaunaens udforskning. [Die Erforschung der arktischen Fauna.] Bergen, Naturen, **30**, 1906, (172-183).

Biffen, R. H. The application of Mendel's laws of inheritance to breeding problems. London, J. R. Agric. Soc., **67**, 1906, (46-63).

Billet, A. Modification à la méthode de coloration de Romanowsky-Giemsa. Paris, C.-R. soc. biol., **61**, 1906, (753-754).

Blanc, J. *vide* Regaud, Ol.

Blanchard, Raphaël. 1. Hommage funèbre au Dr. Bunge. Paris, Bul. soc. zool., **29**, 1904 [1905] (230-231).

Blanchard, R. 2. Substances toxiques produites par les parasites intestinaux. Arch. parasit., Paris, **10**, 1906, [1905], (84-104).

Boas, J. E. V. Lehrbuch der Zoologie für Studierende. 4. verm. u. verb. Aufl. Jena (G. Fischer), 1906, (x + 651). 26 cm. 10 M.

Bölsche, Wilhelm. Charles Darwin. 2. verb. u. verm. Aufl. Leipzig (R. Voigtländer), 1906, (146). 23 cm. 2 M.

Boettger, O. Emil Adolf Rossmässlcr als Biologe und Systematiker. Zur Erinnerung an die 100jährige Wiederkehr seines Geburtstages (3 März 1806). Zool. Beob., Frankfurt a. M., **47**, 1906, (65-69); Wochenschr. Aquarienkunde, Braunschweig, **3**, 1906, (169-171).

Bohn, Georges. 1. Rapports et contrastes biologiques entre les animaux et les végétaux. Revue des Idées, Paris, **3**, 1906, (124-137).

Bohn, G. 2. Variation et évolution. Revue des Idées, Paris, **1**, 1904, (508-532).

Bohn, G. 3. Les couleurs dans la nature. Revue des Idées, Paris, **3**, 1906, (914-933).

Bohn, G. 4. Sur l'adaptation des réactions phototropiques. Paris, C.-R. soc. biol., **60**, 1906, (584-585).

Bohn, G. 5. Sur les courbures dues à la lumière. Paris, C.-R. soc. biol., **61**, 1906, (420-422).

Bohn, G. 6. Sur des mouvements de roulement influencés par la lumière. Paris, C.-R. soc. biol., **61**, 1906, (468-469).

Bohn, G. 7. Mouvements en relation avec l'assimilation pigmentaire chez les animaux. Paris, C.-R. soc. biol., **61**, 1906, (527-528).

Bohn, G. 8. La finalité dans l'étude des mouvements. Paris, C.-R. soc. biol. **61**, 1906, (570-572).

Bohn, G. 9. Le rythme des marées et la matière vivante. Paris, C.-R. soc. biol., **61**, 1906, (708-710).

(**Bohn, G.** 10. Sur le parallélisme entre le phototropisme et la parthénogenèse artificielle. Paris, C.-R. acad. sci., **141**, 1905, (1260-1262)).

Bohn, G. et Piéron, Henri. Le rythme des marées et le phénomène de l'anticipation réflexe. Paris, C.-R. soc. biol., **61**, 1906, (660-661).

Bolton, H. The Bristol museum of natural history. London, Mus. J., **6**, 1906, (127-134).

Bonardi, Edoardo. L' ereditarietà dei caratteri acquisiti in Patologia ed in Medicina. Milano, Rend. Ist. lomb., Ser. 2, **38**, 1905, (604-612).

Bonnevie, Kristine. 1. Untersuchungen über Keimzellen. 1. Beobachtungen an den Keimzellen von *Enteroxenos östergreni*. Jenaische Zs. Natw., **41**, 1906, (229-128, 8 Taf.).

Bonnevie, K. 2. Physiologische Polyspermie. Arch. Math. Naturv., Kristiania, **27**, No. 13, 1906, (13, 1 Taf.).

Bonnevie, K. 3. De nyere tiders opfatning af hermaphroditismen. [Neuere Anschauungen über den Hermaphroditismus.] Arch. Math. Naturv., Kristiania, **27**, No. 14, 1906, (15).

[**Borodin, I.**] Бородинъ, П. Прѣсноводная Біологическая станція Императорскаго С.-Петербургскаго Общества Естествоиспытателей. [Die biologische Süßwasserstation der Kaiserlichen Naturforscher-Gesellschaft zu St. Peterburg.] St. Peterburg, Ber. Süßwasserst. Naturf. Ges., **2**, 1906, (v-lxxi).

Boring, A. M. *vide* Stevens, N. M.

Bouvier, E. L. 1. La faune pélagique des Invertébrés. La mer des Sargasses et sa faune. Rev. gén. sci., Paris, **17**, 1906, (354-362).

Bouvier, E. L. 2. La faune bathypélagique et la faune des grands fonds. Rev. gén. sci., Paris, **17**, 1906, (490-500).

Boveri. Report to the Trustees of the Elizabeth Thompson science fund

of Prof. Boveri's researches. Science, New York, N.Y., **23**, 1906, (115-116).

Bowers, George M. Report of the Commissioner of fisheries for the fiscal year ended June 30, 1905. Washington, D.C., Rep. U. S. Com. Fish, **1905**, 1906, (1-46).

Brady, G. S. On the nature and origin of fresh-water faunas. Newcastle-upon-Tyne Proc. Univ. Durham Phil. Soc., **1**, 1899, (153-164).

Brancsik, K[arl]. Sechs Wochen durch Dalmatien, Herzegovina und Bosnien. Trencsén m. term. társ. évk., Trencsén, **27-28**, 1906, (136-193).

Brandt, [K[arl]]. Bericht über allgemeine biologische Meeresuntersuchungen [In: Die Beteiligung Deutschlands an der internationalen Meeresforschung, Jahresber. 3]. Berlin (O. Salle), 1906, (23-49 Taf.). 29 cm.

Brandt, Karl und **Apstein**, C. Nordisches Plankton, Lfg. 5. Kiel u. Leipzig (Lipsius & Tischer), 1906, (89). 29 cm. 4,40 M.

Brass, Arnold. Ernst Haeckel als Biologe und die Wahrheit. Stuttgart (M. Kielmann), 1906, (96). 24 cm. 1,50 M.

Breemen, P[iet]er J[ohan] van. Bemerkungen über einige Planktonformen. Helder, Verh. Onderz. Zee, **1**, 5, 1906, (1-8 1 Taf.).

Brehm, V. **1**. Untersuchungen über das Zooplankton einiger Seen der nördlichen und östlichen Alpen. Wien, Verh. Zool.-bot. Ges., **1906**, (33-43 and 340).

Brehm, V. **2**. Zur Planktonfauna des Gardasees. Arch. Hydrobiol., Stuttgart, **1**, 1906, (496-497).

Brehm, V. und **Zederbauer**, E[mm]erich. **1**. Beiträge zur Planktonuntersuchung Alpiner Seen. IV. Wien, Verh. Zool.-bot. Ges., **1906**, (19-32 and 140).

Brehm, V. und **Zederbauer**, E. **2**. Beobachtungen über das Plankton in den Seen der Ostalpen. Arch. Hydrobiol., Stuttgart, **1**, 1906, (469-495).

Breitfuss, L. **1**. Kurze Mitteilung über die Arbeiten der wissenschaftlichen Murmanexpedition i. J. 1905. Berlin, Mitt. D. Seefischereiver., **22**, 1906, (138-142).

[**Breitfuss**, L. L.] **2**. Брейтфусъ, Л. Л. Экспедиция для Научно-Промысловыхъ изслѣдованій у береговъ Мурмана. Отчетъ о ея работахъ въ 1903 г. [Wissenschaftlich-praktische Murman-Expedition. Bericht über die Thätigkeit pro 1903]. St. Peterburg [Comité für die Unterstützung der Küstenbewohner des Russischen Nordens], 1906, (lxviii + 257).

Broglio, Annibale. Alcune osservazioni sulla Somatometria e sui risultati che ricavansi dalle misure relative. Milano, Rend. Ist. lomb., Ser. 2, **39**, 1906, (921-932, 943-964).

Bronn, H. G. Klassen und Ordnungen des Tier-Reichs, wissenschaftlich dargestellt in Wort und Bild. Bd **2**, Abt. 2 (Anthozoa), Lfg 2. 3; Abt. 3 (Echinodermen), Lfg 71-73. Bd **3** (Mollusca), Lfg 80-89. Bd **5**, Abt. 2 (Arthropoda), Lfg 75-77. Bd **6**, Abt. 1 (Pisces), Lfg 21. 22; Abt. 5 (Mammalia), Lfg 71-75. Leipzig (C. F. Winter), 1906. 26 cm. Die Lfg. 1,50 M.

Brooks, William Keith. Heredity and variation; logical and biological. Philadelphia, Pa., Proc. Amer. Phil. Soc., **45**, 1906, (70-76).

Broom, R. The origin of mammals. London, Rep. Brit. Ass., **1905**, 1906, (437-438).

Brown, Arthur Erwin. **1**. Theories of evolution since Darwin. [Philadelphia 1906]. (16), 23 cm.

Brown, A. E. **2**. Ontogenetic species and convergent genera. Science, New York, N.Y., **23**, 1906, (146).

Brown, R. N. Rudmose; **Mossman**, R. C.; **Pirie**, J. H. Harvey. The voyage of the "Scotia," being the record of a voyage of exploration in Antarctic seas. By three of the staff. Edinburgh and London, 1906, (xii + 375, 105 pls. and 3 maps).

Buckmann, S. S. *vide* Schuchert, Charles.

Budde, E. Naturwissenschaftliche Plaudereien. 3. Aufl. Berlin (G. Reimer), 1906, (viii + 327). 20 cm. 3,60 M.

Buen, Odon de. La région méditerranéenne des Baléares. Paris, Bul. soc. zool., **30**, 1905, (99-106).

Bujard, Eug. Villosités intestinales. C.-R. ass. anat., 7^e session, (Genève), 1905, Nancy, 1906, (128-129).

Burckhardt, Rud[olf]. Zur Geschichte und Kritik der biologie-historischen Literatur. [H. Joh. Spix. III. Osc. Schmidt.] Zool. Ann., Würzburg, 2, 1906, (31-46).

Buxbaum, Ph. Das Tierleben [des Odenwaldes]. [In: Der Odenwald. Hrsg. v. Georg Volk.] Giessen (E. Roth), [1906], (103-114).

Cagnetto, Giovanni. Per la colorazione delle cellule cromofile dell'Hypophysis cerebri. Nota di tecnica istologica. Zs. wiss. Mikrosk., Leipzig, 22, 1905, [1906], (539-543).

Calkins, Gary N[atlian]. 1. A new method of studying metabolism. [Abstract.] New York, N.Y., Proc. Soc. Exp. Biol. Med., 1, 1904, (15-17).

Calkins, G. N. 2. Fritz Schaudinn. Science, New York, N.Y., N. Ser., 24, 1906, (154-155).

(**Calkins, G. N.** 3. Studies on the life history of Protozoa. IV. Death of the A series. Conclusions. J. Exp. Zool., Baltimore, Md., 1, 1904, (423-461).)

Calvet, Louis. La station zoologique de Cette, son origine, son évolution, son organisation actuelle, avec une esquisse de la faune et de la flore marines de la région et un compte rendu des fêtes jubilaires de la station. Cette, 1905 (91). Travaux de l'Institut de Zoologie de l'Université de Montpellier et de la station zoologique et Cette.

Camerano, Lorenzo. 1. Giulio Bazetta. Cenni biografici. Torino, Boll. Musei zool. anat., 21, N. 522, 1906, (1-1).

Camerano, L. 2. Materiali per la storia della zoologia in Italia nella prima metà del secolo xix. II. [Guiseppe Gantieri]. Torino, Boll. Musei zool. anat., 21, N. 526, 1906, (1-10).

Camerano, L. 3. Materiali per la storia della zoologia in Italia nella prima metà del xix secolo. II, III. I manoscritti di Franco Andrea Bonelli. Torino, Boll. Musei zool. anat., 21, N. 535, (1-15); N. 536 (1-6).

Camerano, L. 4. Victor Fatio. Commemorazione. Torino, Atti Acc. sc., 41, (1905-6), 1906, (690-700).

(**Camerano, L.** 5. Antonio Vallisneri e i moderni concetti intorno ai viventi. Torino, Mem. Acc. sc., Ser. 2, 55, 1905, (69-112).)

Carlson, A. J. 1. Note sur les nerfs du cœur des invertébrés. Paris, C.-R. soc. biol., 60, 1906, (283-284).

Carlson, A. J. 2. Comparative physiology of the invertebrate heart. Parts 4-8. Amer. J. Physiol., Boston, Mass., 15, 1906, (127-143), 16, (147-109).

Carpenter, F[rederic] W[alton] vide Castle, W. E.

Cary, L. R. A contribution to the fauna of the coast of Louisiana. Cameron, La., Gulf Biol. Sta., Bull., No. 6, 1906, (50-59).

Casey, Thos. L. Variation versus mutation. Science, New York, N.Y., 23, 1906, (632).

Caspari, W. Das Gesetz von der Erhaltung der Energie in seiner Anwendung auf den tierischen Organismus. Vortrag . . . Natw. Wochenschr., Jena, 21, 1906, (273-282).

Castle, W[illiam] E[rnest]. 1. Recent discoveries in heredity and their bearings on animal breeding. American Breeders' Association, Proceedings, Washington, D.C., 1, 1905, (120-126).

Castle, W. E. 2. Inbreeding, cross-breeding and sterility in *Drosophila*. Science, New York, N.Y., N. Ser., 23, 1906, (153).

Castle, W. E. 3. Yellow mice and gametic purity. Science, New York, N.Y., 24, 1906, (275-281).

Castle, W. E. 4. The origin of a polydactylous race of guinea-pigs. [Papers of the Station for Experimental Evolution at Cold Spring Harbor, New York, No. 6; and Cambridge, Mass., Cont. Mus. Comp. Zool., Harvard Coll., No. 176.] Washington (Carnegie Institution), Publication No. 49, 1906, (15-29).

Castle, W. E., Carpenter, F[rederic] W[alton], Clark, A[ustin] H[erbert], Mast, S. O., and Barrows, W. M. The effects of inbreeding, cross-breeding, and selection upon the fertility and variability of *Drosophila*. [Cambridge, Mass., Cont. Mus. Comp. Zool., Harvard Coll., No. 177.] Boston, Mass., Proc.

Amer. Acad. Arts Sci., **42**, 1906, (729-786).

Castle, W. E. and **Forbes**, Alexander. Heredity of hair-length in guinea-pigs, and its bearing on the theory of pure gametes. [Papers of the Station for Experimental Evolution at Cold Spring Harbor, New York, No. **5** and Cambridge, Mass., Cont. Mus. Comp. Zool., Harvard Coll., No. **175**] Washington, Carnegie Institution, Publication No. 49, 1906, (1-14).

Castle, W. E. and **Mark**, E[dward] L[laurens]. Experimental studies in heredity. [Abstracts of reports on grant No. 249.] Washington, D.C., Carnegie Inst., Year Book No. **4**, (1905), 1906, (276).

Caullery, Maurice. **1**. L'œuf et la genèse des organes. Revue des mois, Paris, **1**, 1906, (670-691).

Caullery, M. **2**. La vision dans les grandes profondeurs de la mer. Bull. Ass. franç. avanc. Sci., **1905**, (53-64).

Caullery, M. **3**. La station zoologique de Naples. Pourquoi la France y doit avoir une place. Rev. sci., Paris, ser. **5**, **6**, 1906, (779-785).

Caullery, M. et **Mesnil**, F. Revue Annuelle de zoologie. Rev. gén. sci., Paris, **17**, 1906, (34-45 and 83-93).

Cesa-Bianchi, Domenico. Di una particolarità di struttura della cellula nervosa dei gangli spinali. Mon. zool. ital., Firenze, **11**, 1906, (6-16).

Chaine, J. La réforme de la nomenclature myologique. Nancy, C.-R. soc. anat., **8**, 1906, (1-2).

Chamberlain, Charles J[oseph]. Alteration of generations in animals from a botanical standpoint. [Chicago, Ill., Cont. Hull Bot. Lab., Univ. Chic., No. **68**] Bot. Gaz., Chicago, Ill., **39**, 1905, (137-144).

Chappellier, Albert *vide* Loisel, Gustave.

Child, C. M. **1**. Some considerations regarding so-called formative substances. Wood's Holl, Mass. Mar. Biol. Lab. Bull., **11**, 1906, (165-181).

Child, C. M. **2**. Contributions toward a theory of regulation. I. The significance of the different methods of

regulation in Turbellaria. Arch. Entw.-Mech., Leipzig, **20**, 1906, (380-926).

Child, C. M. **3**. The relation between functional regulation and form-regulation. J. Exp. Zool., Baltimore, Md., **3**, 1906, (559-582).

Child, C. M. **4**. The relation between regulation and fission in *Planaria*. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **11**, 1906, (113-123).

Child, C. M. **5**. [Review of Conklin, E. G.] The organisation and cell-lineage of the Ascidian egg. Science, New York, N.Y. **23**, 1906, (340-344).

(**Child**, C. M. **6**. Form-regulation in *Cerianthus*, 9. Regulation, form, and proportion. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **8**, 1905, (271-289).)

(**Child**, C. M. **7**. Studies on regulation. IV. Some experimental modifications of form-regulation in *Leptoplana*. J. Exp. Zool., Baltimore, Md., **1**, 1904, (95-133).)

(**Child**, C. M. **8**. Studies on regulation. V. The relation between the central nervous system and regeneration in *Leptoplana*; posterior regeneration. J. Exp. Zool., Baltimore, Md., **1**, 1904, (463-512).)

(**Child**, C. M. **9**. Studies on regulation. VI. The relation between the central nervous system and regulation in *Leptoplana*: anterior and lateral regeneration. J. Exp. Zool., Baltimore, Md., **1**, 1904, (513-557).)

(**Child**, C. M. **10**. Studies on regulation. VII. Further experiments on form-regulation in *Leptoplana*. J. Exp. Zool., Baltimore, Md., **2**, 1905, (253-285).)

Chobaut. Exploration zoologique de la grotte de Tharana (Gard). Nîmes, Bul. soc. étud. sci. nat., **31**, 1903, [1904], (84-90).

[**Cholodkovskij**, N. A.] Холодковский, Н. А. Клетка и ядро. [Zelle und Zellkern.] Jestestv. i geogr., Moskva, **11**, 1906, **2**, (2-20).

Chubb, Gilbert C. The growth of the oocyte in *Antedon*: a morphological study in the cell-metabolism. London, Proc. R. Soc. B **77**, 1906, (384-387).

Chun, Carl. Wissenschaftliche Ergebnisse der deutschen Tiefsee-Expedition auf dem Dampfer „Valdivia” 1898-1899.

Im Auftrage des Reichsamtes des Innern hrsg. v. Carl **Chun**. Bd. **2**. Tl. **2**, Lfg. **2**; Bd. **13**. Lfg. **1**. Jena (G. Fischer) 1906, (137-219) 15 Taf.; (1-111) 12 Taf. 28 M.; 25 M.—Bd. **5**, Lfg. **2**: Döderlein, Echinoiden; Bd. **12**, Lfg. **2**: Neumann, *Doliolum*. Jena (G. Fischer), 1906, (61-290) 42 Taf.; (93-243) 14 Taf. u. 1 Karte. 82,50 M., 32,50 M.—Bd. **5**, Lfg. **3**; Bd. **9**, Lfg. **2**, (291-350) mit 4 Taf.; (315-336) 2 Taf. 10 M., 5 M.—Bd. **8**, Lfg. **2**: G. W. Müller, Ostracoda. (27-154) 31 Taf. 75 M.—Bd. **12**, Lfg. **3**: C. Apstein, Salpen. (247-290). 7 Taf. 14 M.—Bd. **15**. Lfg. **1**: A. Brauer, Tiefsee-Fische. 16 Taf. u. 2 Kart. 140 M.

Ciaccio, Carmelo. Sur une nouvelle espèce cellulaire dans les glandes de Lieberkühn. Paris, C.-R. soc. biol., **60**, 1906, (76-77).

Clark, A[ustin] H[erbert] *vide* Castle, W. E.

Clark, W[illiam] B[ullock]. The Pleistocene fauna. Maryland Geol. Surv., Pliocene and Pleistocene, Baltimore, 1906, (139-148).

Cligny, A. L'océanographie et les pêches maritimes. Revue du mois, Paris, **2**, 1906, (208-230).

Cockerell, T[hodore] D[ru] A[lison]. **1**. The evolution of species through climatic conditions. Science, New York N.Y., **23**, 1906, (144-146).

Cockerell, T. D. A. **2**. Subspecies, mutations and forms. Nautilus, Boston, Mass., **20**, 1906, (58-60).

Cockerell, T. D. A. **3**. The fossil fauna and flora of the Florissant (Colorado) shales. Boulder, Univ. Colo. Stud., **3**, 1906, (157-176, pl.).

Cockerell, T. D. A. **4**. Spencer Fullerton Baird. Pop. Sci. Mon., New York, N.Y., **68**, 1906, (63-83).

Cockerell, T. D. A. **5**. The letters K and W in zoological nomenclature. Science, New York, N.Y., **23**, 1906, (232).

Comes, Salvatore. **1**. Sull' attendibilità del metodo Pollacci per la ricerca microchimica del fosforo nei tessuti animali. Nota di tecnica. Catania, Boll. Acc. Gioenia, N. Ser., fasc. **90**, 1906, (9-21).

Comes, S. **2**. Ancora del metodo di G. Pollacci e delle obiezioni mosse dal Dott. A. Arcangeli a questo metodo

come reattivo microchimico del fosforo nei tessuti animali. Mon. zool. ital., Firenze, **17**, 1906 (299-308).

Conklin, E[dwin] G[rant]. **1**. The organisation and cell-lineage of the ascidian egg. Philadelphia Pa., J. Acad. Nat. Sci., **13**, 1905, part 1. [Review *vide* Child, C. M.]

Conklin, E. G. **2**. [Review of] The analysis of racial descent in animals, by Thomas H. Montgomery, Jr. Science, New York, N.Y., N. Ser., **24**, 1906, (173-176).

(**Conklin**, E. G. **3**. Mosaic development in ascidian eggs. J. Exp. Zool., Baltimore, Md., **2**, 1905, (145-223).)

Conseil permanent international pour l'exploration de la mer. Rapport sur les travaux de la Commission C 2. 1903-1906. (German and English). Ser. A, **5**, 1906, (1-274, 4 pls. and 8 maps), 21 x 27. Price 10 Kr. Høst, Copenhagen.

Cook, O[rator] F[uller]. **1**. The nature of evolution. Science, New York N.Y., **24**, 1906, (303-307).

Cook, O. F. **2**. Factors of species-formation. Science, New York, N.Y., **23**, 1906, (506).

Cook, O. F. **3**. The vital fabric of descent. Washington, D.C., Proc. Acad. Sci., **7**, 1906, (301-323).

Copeland, Manton *vide* Mark, E. L.

Corcelle, J. Modifications récentes dans la faune des Alpes. Rev. sci., Paris, sér. 5, **2**, 1904, (70-73).

Cori, Carl I[sidor]. Ueber die Meeresverschleimung im Golfe von Triest während des Sommers von 1905. Arch. Hydrobiol., Stuttgart, **1**, 1906, (385-391).

Correns, C[arl]. Ueber Vererbungsgesetze. Verh. Ges. D. Natf., Leipzig, **77** (1905), I, 1906, (201-221).—Desgl. separat (erweiterter Abdruck), Berlin (Bornträger), 1905, (43). 26 cm. 1 M.

Corti, Alfredo. Per la genesi endoteliate e la natura degenerativa dei globuli bianchi mononucleati del sangue. Monitore zool. ital., Firenze, **17**, 1906 (322-325).

Coupin, H., and **Lea**, John. The romance of animal arts and crafts. London, [1907, but reviewed in Nature, Nov. 22, 1906], (356).

Coutagne. Sur l'hérédité. Paris, C.-R. Ass. franç. avanc. sci., **35**, (Lyon, 1906, 1^{re} Partie), 1906, (123-124).

Crampton, Henry E[dward]. 1. Determination of the laws of variation and inheritance of certain Lepidoptera. [Report on grant No. 137.] Washington, D.C., Carnegie Inst., Year Book No. **4**, (1905), 1906, (276-277).

(**Crampton, H. E.** 2. On a general theory of adaptation and selection. J. Exp. Zool., Baltimore, Md., **2**, 1905, (425-430).)

Cuénot, L. Hérédité et mutation chez les souris. Paris, C.-R. Ass. franç. avanc. sci., **34**, (Cherbourg, 1905, 2^e Partie), 1906, (593-597).

Cummings, E[dgar R[oscoe], Beede, J[oshua W[illiam], Branson, E. B. and Smith, Essie A. Fauna of the Salem limestone. Indiana, Rep. Dept. Geol. Nat. Res., Indianapolis, **30**, (1905), 1906, (1187-1479).

Curreri, Giuseppe. Metodi vecchi e nuovi per determinare e ritrovare la posizione di uno o più punti interessanti di preparati microscopici. Roma, Ric. Lab. anat. norm., **12**, fasc. 1^o, 1906, (53-85, 1 tav.).

Cz., St. Jezioro Bajkał pod względem zoogeograficznym. [Le lac Baïkal; étude de géographie zoologique.] Wszechświat, Warszawa, **25**, 1906, (700-702).

Daday, Jenő. Édesvizi mikroszkopi állatok Mongoliából. [Mikroskopische Süsswassertiere aus der Mongolei.] Math. Term. Ért., Budapest, **24**, 1906, (34-77).

Dahl, Fr[iedrich]. 1. Die physiologische Zuchtwahl im weiteren Sinne. Biol. Centralbl., Leipzig, **26**, 1906, (3-15).

Dahl, F. 2. Die Methodik im zoologischen Unterricht an Universitäten. Natw. Wochenschr., Jena, **21**, 1906, (808-811).

Dahl, F. 3. Das Tierleben im Grunewald. Vortrag . . . [Zur Methodik des Unterrichts.] Natw. Wochenschr., Jena, **21**, 1906, (823-829).

Dahl, F. 4. Die lungenatmenden Wirbeltiere Schleswig-Holsteins und der Nachbargebiete und deren Stellung im Haushalte der Natur. Mit Bestimmungs-

schlüsseln nach leicht erkennbaren Merkmalen u. e. Bestimmungstabelle auch der Vogelnester. Kiel u. Leipzig (Lipsius & Tischer), 1906, (viii + 160). 23 cm.

Dall, William Healey. Reminiscences of Yukon exploration. 1865-1868. Pop. Sci. Mon., New York, N.Y., **69**, 1906, (128-137).

Dalmady, Zoltán. A megöregedés. [Das Altern.] Term. Közl., Budapest, **38**, 1906, (1-16, 99-118).

Darbishire, A. D. On the difference between physiological and statistical laws of heredity. Manchester Mem. Lit. Phil. Soc., **50**, No. 11, 1906, (1-44).

Davenport, C[harles] B[enedict]. 1. The mutation theory in animal evolution. Science, New York, N.Y., **24**, 1906, (556-558).

Davenport, C. B. 2. Inheritance in poultry. Papers of the Station for Experimental Evolution, No. **7**. Washington, Carnegie Institution, Publication No. 52, 1906, (v + 136, pl.).

Davenport, C. B. 3. On the imperfection of Mendelian dominance in poultry hybrids. [Abstract.] New York, N.Y., Proc. Soc. Exp. Biol. Med., **3**, 1906, (31-32).

Davenport, C. B. 4. Some Mendelian results in animal breeding. [Abstract.] New York, N.Y., Proc. Soc. Exp. Biol. Med., **2**, 1905, (30).

Davenport, C. B. 5. Biology, experimental. Dept. of Experimental Evolution, Cold Spring Harbor, New York. Washington, D.C., Carnegie Inst., Year Book No. **5**, 1906, (92).

Davenport, C. B. 6. Station for experimental evolution at Cold Spring Harbor, New York. [Report on grant No. 218.] Washington, D.C., Carnegie Inst., Year Book No. **4**, (1905), 1906, (87-107, pl.).

(**Davenport, C. B.** 7. Evolution without mutation. J. Exp. Zool., Baltimore, Md., **2**, 1905, (137-143).)

Davison, Alvin. Practical zoology; an elementary text-book treating of the structure, life history, and relations of animals. New York, Cincinnati [etc.] (American book co.), [1906], (368, with front., illustr.). 19 cm.

Dean, Bashford. Two letters of Dr. Darwin: the early date of his evolutionary writings. Science, New York, N.Y., **23**, 1906, (986).

Deane, Ruthven. Unpublished letters of John James Audubon and Spencer F. Baird. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (318-331).

Dehérain, Henri. La faune du Cap de Bonne-Espérance au xviii^e siècle. Nature, Paris, **34**, 1906, 2^e semest. (18-19).

Dekhuysen, M. C. Deux liquides fixateurs isotoniques avec l'eau de mer. Paris, Bul. soc. zool. **28**, 1903, (165-171).

Delage, Yves. 1. Influence de quelques facteurs sur la parthénogenèse expérimentale. Paris, C.-R. Acad. sci., **141**, 1905, (1201-1204).

Delage, Y. 2. Sur les adjuvants spécifiques de la parthénogenèse expérimentale. Paris, C.-R. Acad. sci., **143**, 1906, (863-865).

Delage, Y. 3. Les problèmes de la Biologie. Bul. Inst. psych. internat., Paris, **5**, 1905, (215-236).

(**Delage**, Y. 4. L'anatomie comparée et les bases de la morphologie. Rev. sci., Paris, sér. 5, **4**, 1905, (129-134, 167-172).)

Dellinger, Oris P. Locomotion of amoebae and allied forms. J. Exp. Zool., Baltimore, Md., **3**, 1906, (337-358, 2 pls.).

Dennert, E. Haeckels Weltanschauung, naturwissenschaftlichkritisch beleuchtet. 1-3. Tausend. Stuttgart (M. Kielmann), 1906, (vi + 111). 24 cm. 1,50 M.

[**Derjugin**, K. M.] 1. Дерюгинъ, К. М. Отчетъ по оборудованію Мурманской Біологической Станціи и лѣтнія работы на ней въ 1904 г. [Bericht über die Einrichtung der Biologischen Station an der Murmanküste und über die Sommerarbeiten auf derselben im J. 1904.] St. Petersburg, Trav. Soc. nat., **36**, 1, 1905, (78-109, 4 Taf.).

[**Derjugin**, K. M.] 2. Дерюгинъ, К. М. Мурманская Біологическая Станція 1899-1905. [Die Murmansche Biologische Station 1899-1905.] St. Petersburg, Trav. Soc. nat., **37**, 4, 1906, (1 + vii + 227, 10 Taf., 5 Kart. u. 4 Plänen).

Dewitz, J. Richtigstellung bezüglich der Auffindung der Kontaktreizbarkeit im Tierreich. Zool. Anz., Leipzig, **30**, 1906, (111-142).

Dieck, W. Das Photomikroskop für ultraviolette Strahlen und seine Bedeutung für die histologische Untersuchung, insbesondere der Hautgewebe. Berlin, SitzBer. Ges. natf. Freunde, **1906**, (108-125, 5 Taf.).

[**Dinnik**, N. J.] Динникъ, Н. Я. По Чечнѣ и Дагестану. [Reise durch die Tschetschna und den Daghestan.] Tiflis, Zap. Kavk. Otd. Russ. Geogr. Obsč., **25**, 4, 1905, (1-78).

Dimon, Abigail Camp. The regeneration of a heteromorphic tail in *Allobophora foetida*. J. Exp. Zool., Baltimore, Md., **1**, 1904, (349-351).

(**Dimon**, Abigail C. v. Morgan, T. H.)

Ditchfield, P. H. and **Page**, William. The Victoria history of Berkshire. **1**. London, 1906, (xxv + 422). [Natural history by numerous authors (1-172).]

Ditlevsen, Hjalmar. Forsøg over nogle Planktondyrs Forhold overfor Lys. [Experiments on the relations of some plancton animals to light.] Kjöbenhavn, Vid. Selsk. Overs., **1906**, (67-90, 2 pls.).

Doflein, F[ranz]. Fauna und Ozeanographie der japanischen Küste. Verh. D. zool. Ges., Leipzig, **16**, 1906, (62-72, 1 Taf.).

Doncaster, L. Darwin and Mendel. Independent Rev., **9**, 1906, (174-183).

[**Doppelmair**, G. G.] Дюппельмайра, Г. Г. О біологической станціи Никольскаго Рыбоводнаго Завода. [Ueber die biologische Station der Fischzuchtanstalt Nikolisk.] St. Petersburg, Trav. Soc. nat., **37**, 1, 1906, (226-230).

Drago, Umberto. Ricerche sulla attrazione delle cellule sessuali. Catania, Atti Acc. Gioenia, Ser. 4, **19**, 1906, Mem. (1-44).

Driesch, Hans. 1. Regenerierende Regenerate. Arch. EntwMech., Leipzig, **21**, 1906, (754-755).

Driesch, H. 2. Studien für Entwicklungsphysiologie der Bilateralität. Arch. EntwMech., Leipzig, **21**, 1906, (756-791).

Drzewina, Anna. Evolution récente de nos connaissances sur la cellule.

Revue des Idées, Paris, **3**, 1906, (731-749).

Dubois, Raphaël. 1. La radioactivité et la vie. Revue des Idées, Paris, **1**, 1904, (338-348).

Dubois, R. 2. De la présence de certaines substances fluorescentes chez quelques animaux invertébrés. Paris, C.-R. soc. biol., **61**, 1906, (675-677).

Dubois, R. 3. Les vacuolides. Réponse à la note de M. J. Künstler sur la constitution intime du protoplasma des Protozoaires. Paris, C.-R. soc. biol., **60**, 1906, (526-528).

Dubreuil-Chambardel, Louis. Les trous de la symphyse du menton. C.-R. ass. anat., 8^e session (Bordeaux), Nancy, 1906, (14-21).

Dubreuil, G. *vide* Renaut, J.

Du Buisson, H. Contribution à l'étude du vitellus. Arch. zool., Paris, sér. 4, **5**, 1906, (143-402).

Eastman, C[harles] R[ochester]. 1. Sir John Mandeville. Science, New York, N.Y., N. Ser., **24**, 1906, (822-823).

Eastman, C. R. 2. Sharks' teeth and cetacean bones. (Reports on the Scientific Results of the Expedition to the Eastern Tropical Pacific, in charge of Alexander Agassiz, by the U. S. Fish Commission Steamer "Albatross"). Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **50**, 1906, (73-98 + 4 l., 4 pls.).

Eckstein, Karl. 1. Die Tiere als Feinde der Kultur. [In] Der Mensch und die Erde, hrsg. v. H. Kraemer, Bd 1.] Berlin (Bong & Co.), [1906]. (461-500, Taf.).

Eckstein, K. 2. Zoologie. [Nutzen u. Schaden der Thiere.] Allg. Forstztg, Frankfurt a. M., **82**, 1906, Supplement, (45-62).

Ehlers, E[rnst]. Albert von Kölliker. Zum Gedächtnis. Zs. wiss. Zool., Leipzig, **84**, 1906, (i-xxvi).

[Elenkin, A.] Еленкинъ, А. А. Симбiозъ какъ идея подвижнаго равновѣсія сожителейвующихъ организмовъ. [Die Symbiose als abstracte Auffassung des beweglichen Gleichgewichts der Symbionten]. St. Peterburg, Trav. Soc. nat., **37**, 1, 1906, (55-63), deutsches Rés., (82-84).

Ellenberger, W[ilhelm] und Baum, H[ermann]. Handbuch der vergleichenden Anatomie der Haustiere. 11 Aufl. Berlin (A. Hirschwald), 1906, (xx + 1024). 26 cm. 26 M.

Ellenberger, W[ilhelm], Baum, H[ermann] und Dittrich, Hermann. Handbuch der Anatomie der Tiere für Künstler. I. Pferd. 2. Aufl. Leipzig (Dieterich), 1906, (48, 24 Taf.). 24 × 31 cm. In Mappe 25 M.

Embleton, Alice L. *vide* Walker, C. E.

Emmel, Victor E. Torsion and other transitional phenomena in the regeneration of the cheliped of the lobster (*Homarus americanus*). J. Exp. Zool., Baltimore, Md., **3**, 1906, (603-618 + 2 l.) 2 pls.

Engleder, Franz. Zeichenskizzen zum naturkundlichen Unterricht nach biologischen Grundsätzen. Bearb. im Auftr. des Bezirkslehrervereins München. H. 3. München (M. Kellerer in Komm.), [1906]. (Taf. mit Erläut., ohne Pag.). 25 cm. 1,40 M.

Enriques, P. Della economia di sostanza nelle ossa cave. Arch. Entw.-Mech. Leipzig, **20**, 1906, (427-468).

Entz, Béla. Schaudinn Frigyes. 1871-1906. [Fritz Schaudinn. 1871-1906.] Budap. Orv. Ujs., Budapest, **4**, 1906, (572-573).

Entz, Géza, *sen.* 1. Az állati szervezet és élet alapvonalai. A legegyszerűbb állat. [Grundzüge des tierischen Organismus und Lebens. Das einfachste Tier.] Budapest, 1906, (38). 23 cm. 50 Heller.

Entz, G., *sen.* 2. Két régi, elveszett magyar állattani könyvről. [Über zwei alte, verlorene ungarische zoologische Bücher.] Term. Közl., Budapest, **38**, 1906, (353-355).

Ernst, P. Monstruosités animales dans leurs rapports avec l'organogénie expérimentale et la phylogénie. Arch. sci. phys. Genève, **22**, 1906, (375-380).

Eternod, A. C. F. La gastrule dans la série animale et plus spécialement chez l'homme et les mammifères. Lausanne, Bull. Soc. Sci. Nat., **42**, 1906, (197-224, pl. ix-xiv).

Eycleshymer, Albert C[hauncey]. The growth and regeneration of the gills in the young *Necturus*. Wood's Holl, Mass.,

Mar. Biol. Lab. Bull., **10**, 1906, (171-175).

Farmer, J. B. F. The cell and heredity. [Review of Strasburger's Grundlagen der Vererbung.] Nature, London, **75**, 1906, (98).

Fauré-Frémiet, Emmanuel. Le Glaucoma pyriformis et l'organisation de la substance vivante. Nancy, C.-R. Ass. anat., **8**, 1906, (120-127).

[**Faussek, V[iktor]**]. Фаусекъ, Викторъ. Биологическія изслѣдованія въ Закаспійской Области. [Biologische Untersuchungen in Transkaspien]. St. Petersburg, Zap. Russ. Geogr. Obsč., **27**, 2, 1906, (1 + 1-192 + 1, 4 Taf.).

Faust, Edwin Stanton. Die tierischen Gifte. (Die Wissenschaft. Sammlung naturw. u. math. Monographien. H. 9.) Braunschweig (F. Vieweg & S.), 1906, (xvi + 248). 22 cm. 6 M.

Federici, Federico. Un nuovo metodo per la colorazione specifica delle Mastzellen. Anat. Anz., Jena, **29**, 1906, (357-361).

[**Fedorov, S. E.**] Федоровъ, С. Е. Перфекціонизмъ. Продолж. [Der Perfectionismus. Forts.]. St. Petersburg, Bull. labor. biol., **8**, 2, 1906, (9-65); franz. Rés., (66-67).

Féré, Ch. Les portées noires de deux souris blanches. Paris, C.-R. soc. biol., **61**, 1906, (117-118).

Fernald, H. T. Different kinds of types. Ent. News, Philadelphia, Pa., **16**, 1905, (196-198).

Ferrata, Adolfo. Rapporti fra nucleolo, nucleo, e granulazioni del protoplasma. Mon. zool. ital., Firenze, **17**, 1906, (326-327).

Field, Herbert Haviland. Bibliographia Zoologica (diario „Zoologischer Anzeiger“, adnexa) condita ab J. Victor Carus edidit Herbert Haviland Field. **11**, (1905). Leipzig (W. Engelmann), 1906, (472). 23 cm.

Finsch, O. Das Reichs-Museum für Naturgeschichte in Leiden und seine Umgestaltung in ein Ideal-Museum. Museumskunde, Berlin, **2**, 1906, (29-40).

Flemming, Walther. Obituary, vide Spee, F.

Flower, Stanley S. Report on mission to Europe, 1905. Cairo, 1906, (1-43).

Focke, W[ilhelm] O[lbers], Schütte, H. und Sartorius, K. Zur Kenntnis des Mellum-Eilandes. Bremen, Abh. natw. Ver., **18**, 1906, (365-375).

Forbes, Alexander vide Castle, W. E.

Foureau. Notes sur la faune, [in] Documents Scientifiques de la Mission saharienne (Mission Foureau-Lamy). Paris, fasc. **3**, 1905, (995-1062).

Francotte, P. Les laboratoires maritimes étrangers à l'exposition de Liège, par P. Francotte, professeur à l'Athénée et à l'Université de Bruxelles, membre de l'Académie royale de Belgique.—Bruxelles (imprimerie F. Vanbuggenhoudt) 1905, 8 gravv., Gr. in-12. 1 fr. Extrait de Chasse et pêche.

Frech, Fritz. 1. Ueber die Gründe des Aussterbens der vorzeitlichen Tierwelt. Arch. Rassenbiol., Berlin, **3**, 1906, (469-498).

Frech, Frigyes. 2. A tengeri eredetű karbon Magyarországon. [Das marine Karbon in Ungarn.] Földt.-Közl., Budapest, **36**, 1906, (1-50, 103-153, Taf. i-ix).

Fredericq, Léon. 1. Revue annuelle de physiologie. Rev. gén. sci. Paris, **17**, 1906, (650-664).

Fredericq, L. 2. La faune et la flore glaciaires du plateau de la Baraque-Michel (point culminant de l'Ardenne). Discours. 2^e Ed. Liège (Gnuse), 1906, (51).

Frenkel, Ferdinand. Anatomische Wandtafeln für den naturgeschichtlichen Unterricht an höheren Lehranstalten. Text zu Taf. 7 u. 8. Jena (G. Fischer), 1906, (98). 26 cm.

Freund, Ludwig. Die technische Ausbildung der Zoologen. Zool. Anz., Leipzig, **31**, 1906, (93-96).

Friedberg, Wilhelm. Zbiory przyrodnicze w naszych szkołach średnich. [Sur les collections d'histoire naturelle dans nos collèges.] Muzeum, Lwów, **22**, 2, 1906, (218-233).

Friedrich, P. Regeneration der Beine und Autotomie bei Spinnen. Arch. Entw.Mech. Leipzig, **20**, 1906, (469-506).

[**Fürbringer, Max**]. Festbericht über die Enthüllung der Carl Gegenbaur-

Büste von Prof. C. Seffner am 12. Mai 1906 in Heidelberg. *Morph. Jahrb.*, Leipzig, **35**, 1906, (i-xxxix 1 Portr.).

Fürth, Otto von und **Russo**, Michele. Ueber kristallinische Chitosanverbindungen aus Sepienschulpen. Ein Beitrag zur Kenntniss des Chitins. *Beitr. chem. Physiol.*, Braunschweig, **8**, 1906, (163-190).

Gager, C. Stuart. De Vries and his critics. *Science*, New York, N.Y., **24**, 1906, (81-89).

[**Galenus**, Claudius.] Sieben Bücher Anatomie des Galen, *ἀνατομικῶν ἐγχειρήσεων βιβλίον* Θ-ΙΕ. Zum ersten Male veröffentlicht nach den Handschriften einer arabischen Uebersetzung des 9. Jahrh. n. Chr., ins Deutsche übertragen und kommentiert v. Max Simon. Bd. 1: Arabischer Text, Einleitung zum Sprachgebrauch . . . Bd. 2: Deutscher Text, Kommentar . . . Leipzig (J. C. Hinrich) 1906, (lxxxi + 362 2 Taf.); (lxviii + 366). 25 cm. Bd. 1, 36 M.: Bd. 2, 24 M.: Bd. 1 u. 2, 45 M.

Gallardo, Angel. L'interprétation bipolaire de la division karyocinétique. *An. Mus.*, Buenos Aires, Ser. 3, **6**, (259-276).

Galli-Valerio, Bruno. 1. Le rôle de la Pathologie expérimentale dans la classification botanique et zoologique. Lausanne, *Bull. Soc. Sci. Nat.*, **42**, 1906, (65-70).

Galli-Valerio, B. 2. Notes de parasitologie. A. Parasites végétaux. B. Parasites animaux. *Centralbl. Bakt.*, Jena, Abt. I, **41**, Originale, 1906, (643-646, 745-749).

Galloway, Thomas Walton. First course in zoology; a text-book for secondary schools, normal schools and colleges. Philadelphia (Blakiston), 1906, (xi + 481). 23 cm.

Garbowski, T[adeusz]. O biegunowości jaja jeżowców. (*Paracentrotus lividus*). [Sur la polarité de l'œuf des oursins (*Paracentrotus lividus*)]. *Kraków, Rozpr. Akad.*, **45** B, 1905, (278-318, 1 pl.).

Gardiner, J. Stanley. 1. The fauna and Geography of the Maldives and Laccadive Archipelagos, **2** Suppl. ii, 1906, (1046-1077). [Completing the work.]

Gardiner, J. S. 2. The Percy Sladen-expedition in H.M.S. "Sealark" to the Indian Ocean. The Seychelles Archipelago. *Nature*, London, **73**, 1906, (294-296).

Gardiner, J. S. 3. The Indian Ocean. Being results largely based on the work of the Percy Sladen expedition in H.M.S. "Sealark," *Comm. B. T. Somerville*, 1905. London, *Geogr. J.*, **28**, 1906, (313-332 and 454-471).

Gaskell, W. H. A neuro-syncytial theory of development. London, *Rep. Brit. Ass.*, **1905**, 1906, (443-444).

Gauvreau, Em. B. A propos de pattes. Étude sur les pistes de quelques animaux. *Nat. Canad.*, Quebec, **33**, 1906, (97-108).

Gemelli, Agostino. Nuove osservazioni sulla struttura delle placche motrici e dei fusi neuromuscolari. *Mon. zool. ital.*, Firenze, **17**, 1906, (92-99).

Gerhardt, U[rich]. Ueber Konvergenzerscheinungen im Tierreich. *Med. Klinik*, Berlin, **1**, 1905, (500-506).

Giard, Alfred. 1. L'évolution des sciences biologiques. Paris, *Bul. Ass. franç. avanc. Sci.*, **1905**, (231-254).

Giard, A. 2. Les origines de l'amour maternel. *Revue des Idées*, Paris, **2**, 1905, (249-274).

(**Giard**, A. 3. L'évolution des sciences biologiques. *Rev. sci.*, Paris, sér. 5, **4**, 1905, (193-205).)

(**Giard**, A. 4. Controverses transformistes. Paris, (Carré), 1905, (viii + 179). 25 cm. 5.)

Gineste, Ch. *vide* Kunstler, J.

Gjurašin, Stj. Redukcija kromosomā. [Reduction of chromosomes.] *Glasnik Naravosl. druzt.*, **18**, (34-42).

Goldfarb, A. J. Experimental study of light as a factor in the regeneration of Hydroids. *J. Exp. Zool.*, Baltimore, Md., **3**, 1906, (129-152).

Gough, Lewis Henry. Plankton collected at Irish light stations. *Rep. fisheries Ireland*, Dublin, (1904), 1906, Part 2. Scientific Investigations, (227-279).

Grabau, Amadeus W[illiam]. Guide to the geology and paleontology of the Schoharie valley in eastern New York. Albany, N.Y., St. Educ. Dept., Mus.

Bull., No. 92, 1906, (2 l. + 77-386, pl.). 23 cm.

Gravier, Ch. 1. Rapport sur une mission scientifique à la côte française des Somalis. Arch. [nouvelles], Miss. sci. litt., Paris, n. sér., 13, 1904, (1-6).

Gravier, C. 2. Notice sur les titres et les travaux scientifiques de M. Charles Gravier. Paris (Masson), 1902, (86).

Gray, Albert A. Observations on the labyrinth of certain animals. London, Proc. R. Soc., B 78, 1906, (284-296, pls. xvi-xviii).

Green, J. Reynolds. English men of science—Sir William Flower. London, 1906, 12 mo. (vi + 191).

Greene, George K. 1. Contribution to Indiana palaeontology. Part 1. Volume 2. New Albany, Ind., 1906, (1-17 + 3l., pl.).

Greene, G. K. 2. Contribution to Indiana palaeontology. Part 2. Volume 2. New Albany, Ind., 1906, (19-31 + 3l., pl.).

Greil, Alfred. Ueber die Homologie der Anamnierkiemen. Anat. Anz., Jena, 28, 1906, (257-272).

Grieg, James A. Nogle biologiske grupper i Bergens museum. [Einige biologische Gruppen im Museum zu Bergen.] Bergen, Naturen, 30, 1906, (341-348).

Griggs, Robert F. A reducing division in *Ascaris*. Ohio. Nat., Columbus, Ohio, 6, 1906, (519-527).

[G[rimm], O[skar].] I[приммъ] O[с-каръ]. † Филиппъ Васильевичъ Овсянниковъ. [†Filipp Vasil'evič Ovsianikov.] Věst. rybopromysl., St. Petersburg, 21, 1906, (285-286).

Gruvel, A. Mission des pêcheries de la côte occidentale d'Afrique dirigée par Gruvel. Avant-propos. Bordeaux, Actes soc. linn., 60, 1905, (5-6).

Günther A. Das Sammeln von Reptilien, Batrachiern und Fischen. [In] Anleitung zu wiss. Beobachtungen auf Reisen. 3. Aufl. Bd 2. Hannover (M. Jänecke), 1906, (561-594).

Günther, Carl and Reichle, [Carl]. Gutachten der königlichen Prüfungsanstalt für Wasserversorgung und Abwässerbeseitigung über die Abwässerbeseitigung von Neustrelitz. . . . Berlin (N-9720 q)

lin, Mitt. Prüfungsanst. Wasserversorg., H. 6, 1906, (1-33).

Guenther, Conrad. Darwinism and the problems of life: a study of familiar animal life. Translated by Joseph McCabe. London, 1906, (1-436).

Günther, G[ustav]. 1. Die tierische Zelle. [In] Handbuch der vergl. mikr. Anatomie der Haustiere, hrsg. v. W. Ellenberger. Bd. 1. Berlin (P. Parey), 1906, (566-601).

Gutherz, Siegfried. Zur Kenntnis der Heterochromosomen. Diss. Berlin (Druck v. G. Schade), 1906, (39). 22 cm.

Gutzmer, A[ugust]. Bericht der Unterrichtskommission über ihre bisherige Tätigkeit. Beilagen: III. Bericht über den Unterricht in der Chemie nebst Mineralogie und in der Zoologie nebst Anthropologie, Botanik und Geologie an den neunklassigen höheren Lehranstalten. Verh. Ges. D. Natf., Leipzig, 77, (1905), I, 1906, (142-200).

Haacke, Wilhelm. Die Gesetze der Rassenmischung und die Konstitution des Keimplasmas. Arch. EntwMech., Leipzig, 21, 1906, (1-93).

Hachet-Souplet, P. L'abstraction chez les animaux. Revue des Idées, Paris, 1, 1904, (579-590).

Haeckel, Ernst. 1. Prinzipien der generellen Morphologie der Organismen. Wörtlicher Abdruck eines Teils der 1866 erschienenen „Generellen Morphologie“. . . . Berlin, 1906, (1-464).

Haeckel, E. 2. Les enigmes de l'Univers (trad. franç.). Paris (Schleicher frères) 1905, (160). 21 cm. 2 f.

(**Hahn, C. W.** Dimorphism and regeneration in *Metridium*. J. Exp. Zool., Baltimore, Md., 2, 1905, (225-235).)

Halet, F. Le Muséum d'histoire naturelle de New York. Ann. de Gembloux, 1907, No. 37-40.

Hamy, E. T. 1. Une autobiographie inédite de Valmont de Bomare: publiée et annotée par le prof. E. T. Hamy. Bul. Muséum, Paris, 12, 1906, (4-7).

Hamy, E. T. 2. Une lettre de Frédéric Cuvier à Richard Harlan, 1825, publiée avec un court commentaire. Bul. Muséum, Paris, 1906 (133-136).

Hamy, E. T. 3. Diequemare jugé par Cuvier (1805). Note pour servir à l'histoire des recherches zoologiques dans la Manche. Bul. Muséum, Paris, **1906**, (181-185).

Hamy, E. T. 4. Le second voyage et la mort au Mexique de Louis Choris, peintre et naturaliste, correspondant du Muséum (1827-1828). Bul. Muséum, Paris, **1906**, (353-357).

Hamy, E. T. 5. Le Dr Joseph Roger, correspondant du Muséum (1875-1905). Notice nécrologique par le professeur Hamy. Bul. Muséum, Paris, **12**, 1906, (357-358).

Hanstein, R. von. 1. Albert von Kölliker†. Nachruf. Natw. Rdsch., Braunschweig, **21**, 1906, (89-91, 101-103).

Hanstein, R. v. 2. Zoologische Schulsammlungen. Natw. Rdsch., Braunschweig, **21**, 1906, (506-508).

Hanusz, István. Az Alföld állatvilágából. [Aus dem Tierleben des Alföldes.] Délmagy. Term. Fü., Temesvár, **30**, 1906, (12-21).

Harris, J. Arthur. The experimental data of the mutation theory. The Monist, Chicago, Ill., **16**, 1906, (251-293).

Hartmann, Eduard von. Das Problem des Lebens. Biologische Studien. Bad Sachsa i. H. (H. Haacke), 1906, (viii + 140). 25 cm. 12 M.

Hartmann, Max. Tod und Fortpflanzung. Eine biologische Betrachtung. München (E. Reinhardt), 1906, (40), 2 Taf. 25 cm. 1 M.

Hartmann, M. und Prowazek, S. v. Fritz Schaudinn†. Arch. Protistenkunde, Jena, **8**, 1906, (i-x, Portr.).

Hartog, Marcus. Les explications physiques du champ de force de la cellule en cinèse. Paris, C.-R. Ass. franç. avanc. sci., **34**, (Cherbourg, 1905, 2^e Partie), 1906, (536-545).

Hartzell, J. Culver. Conditions of fossilization. J. Geol., Chicago, **14**, 1906, (269-289).

Harvie-Brown, J. A. A fauna of the Tay basin and Strathmore. Edinburgh, 1906, (lxxxvi + 377, pls. and maps).

Hassall, Albert ride Stiles, C. W.

Hatschek, B[erthold]. Hypothese der organischen Vererbung. Verh. Ges. D. Natf., Leipzig, **77** (1905), I., 1906, (245-

249). — Desgl. separat. Leipzig (W. Engelmann), 1905, (44). 8vo. 1 M.

Hautefeuille. Notice biographique du Dr Du Roselle. Amiens, Bul. soc. linn., **17**, 1906, (131-136 portr.).

Havet, J. L'origine des nucléoles vrais ou plasmosomes des cellules nerveuses. Anat. Anz., Jena, **29**, 1906, (258-266).

Hawrysiewicz, Julian. Spostrzeżenia pojawów w świecie roślinnym i zwierzęcym, wykonane w roku 1904 w Ożydowie. [Observations phénologiques effectuées à Ożydów en 1904.] Kraków, Spraw. Kom. fizyogr., **39**, 1906, (61-73).

Headley, F. W. Life and evolution. London, 1906, 8vo. (xvi + 272).

Heider, K[arl]. 1. Vererbung und Chromosomen. Verh. Ges. D. Natf., Leipzig, **77** (1905), I., 1906, (222-244).

Heider, K. 2. Vererbung und Chromosomen. Verlag . . . Jena (G. Fischer), 1906, (IV + 42). 24 cm. 1,50 M.

Heider, K. 3. Fritz Schaudinn†. Nachruf. Natw. Rdsch., Braunschweig, **21**, 1906, (386-387).

Helguero (De), Fernando. Determinazione della grandezza e della forma degli organismi in Somatometria. Roma, Atti. Soc. romana antrop., **11**, 1905, (17-26).

Henderson, Junius. The Tertiary lake basin of Florissant, Colorado. Boulder, Univ. Colo. Stud., **3**, 1906, (145-156, pl.).

Henkel, Isabel. A study of tide-pools on the west coast of Vancouver island. [Marine fauna and flora and geologic features.] Postelsia, St. Paul, Minn., **1906**, (275-304).

Henkinson. Professor Walter Frank Raphael Weldon. Nekrolog. Anat. Anz., Jena, **29**, 1906, (61-62).

Henri, Victor. Etudes de physiologie comparée. Etude du liquide périviscéral des Oursins. Eléments figurés. Phénomène de la coagulation et son rôle biologique. Paris, C.-R. soc. biol., **60**, 1906, (880-882).

Henry, Charles et Bastien, Louis. Recherches sur la croissance de l'homme et sur la croissance des êtres vivants, en général. Paris, C.-R. Ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (797-807).

Hensen, Viktor. 1. Die Biologie des Meeres. Rede . . . Arch. Hydrobiol., Stuttgart, **1**, 1906, (360-377).

Hensen, V. 2. Die Biologie des Meeres. Rede . . . Kiel, Schr. natw. Ver., **13**, 1906, (221-237).

Hensen, V. 3. Ergebnisse der in dem Atlantischen Ozean von Mitte Juli bis Anfang November 1889 ausgeführten Plankton-Expedition der Humboldt-Stiftung. Hrsg. v. Victor Hensen. 3. L. a: Brandt, Tintinnodeen. Kiel u. Leipzig (Lipsius & Tischer), 1906, (70 Taf., mit 33 S. Erklärungen).—Bd. **3**, L. h. 4: **Borgert**, Medusettidae, 1906, (134-192) 4 Taf. 8 m.—**3**. L. f. β : **Popofsky**, Acantharia, Tl. II, 1906, (160) 16 Taf.

Herbst, Curt. 1. Vererbungsstudien. I. Ein Plan zu rationellen Studien über Vererbungserscheinungen. II. Ueber den Einfluss der Temperatur auf die Ausbildung der Seeigeltastarde. III. Ist die „Schädigung“ eines der beiden Sexualprodukte von Einfluss auf das Hervortreten der väterlichen oder mütterlichen Charaktere? Arch. EntwMech., Leipzig, **21**, 1906, (173-305).

Herbst, C. 2. Vererbungsstudien. IV. Das Beherrschen des Hervortretens der mütterlichen Charaktere (Kombination von Parthenogenese und Befruchtung). Arch. EntwMech., Leipzig, **22**, 1906, (473-497, pl. xiv).

Herdman, W. A. Report to the Government of Ceylon on the Pearl Oyster fisheries of the Gulf of Manaar. With supplementary reports upon the marine biology of Ceylon by other Naturalists. Part V. London, R. Soc., 1906, (viii + 452). 4to.

Heron, David. On the inheritance of the sex-ratio. Biometrika, Cambridge, **5**, 1906, (79-85).

Herrera, A. L. Notions générales de biologie et de plasmogénie comparées. Traduit . . . par Georges **Renaudet**. Préface de M[oritz] **Benedikt**. 1. Ed. française. Berlin (E. Junk), 1906, (xxix + 260). 27 cm. 10 M.

Herrick, F[rancis] H[obart]. Torsion of the crustacean limb. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **9**, 1905, (130-137).

(N-9720 q)

Hertel, E[rnst]. Einiges über Bedeutung des Pigmentes für die physiologische Wirkung der Lichtstrahlen. Vergleichend-physiologische Untersuchungen. Zs. allg. Physiol., Jena, **6**, 1906, (44-70).

Hertel, C[hristian] A[rchibald]. Character of the bacterial flora of carnivorous and of herbivorous animals. Science, New York, N.Y., N. Ser., **24**, 1906, (859-861).

Hertwig, Oscar. 1. Lehrbuch der Entwicklungsgeschichte des Menschen und der Wirbeltiere. 8. umgearb. u. erweitert. Aufl. Jena (G. Fischer), 1906, (xix + 706). 26 cm.

Hertwig, Oscar. 2. Allgemeine Biologie. 2. Aufl. des Lehrbuches „Die Zelle und die Gewebe.“ Jena (G. Fischer), 1906, (xvi + 649). 26 cm. 15 M.

Hertwig, R[ichard]. 1. Ueber die Methoden zoologischer Forschung. Verh. D. zool. Ges., Leipzig, **16**, 1906, (9-18).

Hertwig, R. 2. Weitere Untersuchungen über das Sexualitätsproblem. Verh. D. zool. Ges., Leipzig, **16**, 1906, (90-112).

Hesse, R[ichard]. 1. Stoffwechsel und Herz. Eine biologische Betrachtung. Natur u. Schule, Leipzig, **5**, 1906 (437-449).

Hesse, R. 2. Eiszeitrelikte in unserer Tierwelt. Stuttgart, Jahreshefte Ver. Natk., **62**, 1906, (cii, ciii).

Hewitt, C. Gordon. The cytological aspect of parthenogenesis in Insects. Manchester, Mem. Lit. phil. Soc., **50**, No. 6, 1906, (1-38).

Hilgendorf, Franz; obituary vide Weltner, W.

Hodgkin, T. E. Notes on the theories of preformation and epigenesis. Newcastle-upon-Tyne Proc. Univ. Durham Phil. Soc., **1**, 1906, (199-218).

Hogue, M. J. vide Tennant, D[avid] H[ill].

Holland, T. H. W. T. Blanford, A.R.S.M., LL.D., C.I.E., F.R.S. Calcutta, J. As. Soc. Beng., **2**, 1906, (i-iii).

Hopf, Ludwig. Ueber den sogen. Orts- und Richtungssinn der Tiere. Kosmos, Stuttgart, **3**, 1906, (294-299).

Hornaday, William T[emple]. Report of the Director of the Zoological park. New York, N.Y., Rep. Zool. Soc., **10**, (1905), 1906, (59-86).

Houlbert, Constant. La station entomologique de l'Université de Rennes. Paris, C.-R. Ass. franç. avanc. sci., **34**, (Cherbourg, 1905, 2^e Partie), 1906, (528-531).

Houssay, Frédéric. 1. Les idées d'évolution dans l'antiquité et le moyen âge. Revue des Idées, Paris, **1**, 1904, (241-259).

Houssay, F. 2. Les idées d'évolution dans l'antiquité et dans le moyen âge. Paris, Bull. Ass. franç. avanc. Sci., **1904**, No. 7, (supplément), (117-134).

Houssay, F. 3. Le régime frugivore et nos idées originelles. Revue du mois, Paris, **1**, 1906, (257-267).

Hovey, E. O. *vide* Whitfield, R. P.

Howard, L[eland] O[ssian]. Polyembryony and the fixing of sex. Science, New York, N.Y., N. Ser., **24**, 1906, (810-818).

Hoyle, W. E. 1. Presidential address. The education of a curator. London, Mus. J., **6**, 1906, (4-24).

Hoyle, W. E. 2. The new zoological institute at Breslau. London, Mus. J., **5**, 1906, (283-290).

Huitfeldt-Kaas, Hartvig. Planktonundersøgelser i norske vande. Udg. ved offentlig foranstaltning. [Plankton-Untersuchungen in norwegischen Seen. Auf öffentliche Veranstaltung hrsg.] Kristiania (Cammerey's bogh.), 1906, (iv + 199), 3 Taf., deutsches Rés., (147-149). 23 cm. 3,00 Kr.

Huncke, Ernst. Soziales und Wirtschaftliches aus dem Tierreich. Arch. Rassenbiol., Berlin, **3**, 1906, (646-673).

Hutton, F. W. Obituary. Wellington Trans. and Proc. N. Zeal. Inst., **38**, (v-vii).

Illig, G. Sorgdrager, Anatomische Modelle. N. Bahnen, Leipzig, **17**, 1906, (424-429).

Inhelder, A. Über Hyperdaktylie. St. Gallen, Jahrb. Naturw. Ges., **1905**, 1906, (428-436).

Issel, Raffaele. Sulla Termobiosi negli animali acquatici. Ricerche faunistiche e biologiche. Genova, Atti

Soc. ligustica sc. nat. geogr., **17**, 1906, (3-72, 1 tav.).

International Catalogue of Scientific Literature. N. Zoology. Third annual issue. Part i, Author catalogue (viii + 432). Part ii, Invertebrata (xi + 963). [Part iii, Vertebrata, issued in 1905.] London, 1906. 8vo.

International Catalogue of Scientific Literature. N. Zoology. Fourth annual issue. Part i, Author catalogue (viii + 405). Part ii, Invertebrata (xi + 851). Part iii, Vertebrata (xi + 384). London, 8vo, 1906.

Jacobi, A[rnold]. Grundriss der Zoologie für Forstleute. Ergänzungsband zu Lorey's Handbuch der Forstwissenschaft. Tübingen (H. Laupp), 1906, (xi + 263). 27 cm. 7,50 M.

Jaeckel, O[tto]. Ueber die Mundbildung der Wirbeltiere. Berlin, SitzBer. Ges. natf. Freunde, **1906**, (7-32).

Jaeger, Gustav. Das Leben im Wasser und das Aquarium. 2. Aufl. Stuttgart (Kosmos), [1906], (viii + 230, 9 Taf.). 27 cm. 3,50 M.

[**Jagodovskij**, K. P.] Ягодовский, К. П. Мурманская Научно-промышленная экспедиция. [Die wissenschaftlich gewerbliche Murman-Expedition.] Jestestv. i geogr., Moskva, **11**, 1906, 4, (37-64), 5, (29-51), 6, (42-59).

Jammes, L. Zoologie pratique basée sur la dissection des animaux les plus répandus. Paris (Masson), 1904, (580, 317 fig.).

Jammes, L. et **Martin**, A. Développement de l'œuf de l'*Ascaris vitulorum* Gœze en milieu artificiel. Paris, C.-R. Acad. sci., **142**, 1906, (67-70).

Jenkinson, J. W. 1. Remarks on the germinal layers of Vertebrates and on the significance of germinal layers in general. Manchester, Mem. Lit. Phil. Soc., **50**, No. 3, 1906, (1-89).

Jenkinson, J. W. 2. On the effect of certain solutions upon the development of the frog's egg. Arch. Entwicklmech., Leipzig, **21**, 1906, (367-460, pls. v, vi).

Jennings, H[erbert] S[pencer]. 1. Modifiability in behavior. 2. Factors determining direction and character of movement in the earthworm. J. Exp. Zool., Baltimore, Md., **3**, 1906, (435-455).

Jennings, H. S. 2. Behavior of the lower organisms. (Columbia university biological series, 10.) New York, 1906, (xiv + 11. + 366).

Jennings, H. S. 3. Modifiability in behavior. 1. Behavior of sea anemones. J. Exp. Zool., Baltimore, Md., **2**, 1905, (447-472).

Jennings, H. S. 4. The method of regulation in behavior and in other fields. J. Exp. Zool., Baltimore, Md., **2**, 1905, (473-494).

John, Julius. Der Unterricht in der Natur als Mittel für grundlegende Anschauung. Wien (F. Tempsky), Leipzig (G. Freytag), 1906, (178), 22 cm.

Johnston, Sir Harry. Liberia, London, 1906. Two Vols. 8vo. The fauna. Chapters 23-26, Vol. **2**, (670-883).

Johnstone, James. British fisheries, their administration and their problems. A short account of the origin and growth of British sea-fishery authorities and regulations. London, 1905, (xiv + 350). 8vo.

Jordan, David Starr. 1. Rambur and the nature of species. Science, New York, N.Y., **23**, 1906, (350).

Jordan, D. S. 2. Discontinuous variation and pedigree culture. Science, New York, N.Y., **24**, 1906, (399-400).

Jordan, D. S. 3. Concerning variations in animals and plants. Pop. Sci. Mon., New York, N.Y., **68**, 1906, (481-502).

Joubin, L. Projet de publication de fiches phototypiques représentant les types originaux des espèces décrites par les anciens auteurs. Paris, Bul. soc. zool., **29**, 1904, (123-126).

Justice, Octave. Les deux stations zoologiques méditerranéennes de Cette et de Banyuls. Nature, Paris, **34**, 1906, 1^{er} semest., (376-379).

Kallde, Georg. Die Behandlung der niederen Tiere in in O III der Realanstalten. Tl 1: Die Urtiere. Natur u. Schule, Leipzig, **5**, 1906, (123-126).

Kammerer, Paul. Eine Naturforschereinfahrt durch Aegypten und den Sudan. Wochenschr. Aquarienkunde, Braunschweig, **3**, 1906, (1-4, etc.).

[**Karavajev, V. A.**] Караваевъ, В. А. Поѣздка на островъ Яву. Впечатлѣнія

Натѣпанства. [Eine Reise nach Java. Eindrücke eines Naturforschers.] 2-te Aufl. Kiev, 1905, (161+III), 23 cm.

Kassowitz, Max. Die Vererbungssubstanz. Arch. EntwMech., Leipzig, **21**, 1906, (153-165).

Kellogg, Vernon L[yman]. 1. Physiological regeneration in insects. Science, New York, N.Y., N. Ser., **23**, 1906, (149-152).

Kellogg, V. L. 2. A note on assortative mating. Science, New York, N.Y., N. Ser., **24**, 1906, (665-666).

Kellogg, V. L. 3. Is there determinate variation? Science, New York, N.Y., N. Ser., **24**, 1906, (621-628).

Kellogg, V. L. 4. Variation in parthenogenetic insects. Science, New York, N.Y., N. Ser., **24**, 1906, (695-699).

(**Kellogg. 5.** Influence of the primary reproductive organs on the secondary sexual characters. J. exp. zool., Baltimore, Md., **1**, 1904, (601-605).)

Kelly, Henry A. v. Linville, Henry R[ichardson].

Kemna, Ad. Les théories dans les sciences naturelles et spécialement en zoologie. Rapport présidentiel pour l'année 1905 de la Société royale zoologique et malacologique de Belgique, par Ad. Kemna. Bruxelles, P. Weissenbruch. 8vo, 43 p. (1 fr.). Extrait des Ann. Soc. royale zoologique et malacologique de Belgique, **41**, 1906.

Keyes, Charles R[ollin]. 1. Lime creek fauna of Iowa in south-western United States and northern Mexican region. Des Moines, Proc. Iowa Acad. Sci., **13**, 1906, (197-198).

Keyes, C. R. 2. Alternation of fossil faunas. Des Moines, Proc. Iowa Acad. Sci., **13**, 1906, (199-201).

Kiær, Hans. Om dyrelivet i Balsfjorden og denne fjords udløb til havet (med kartskizze, profil og „English Summary“). [Ueber das Thierleben im Balsfjord und in der Verbindung dieses Fjords mit dem Meere.] Tromsø Mus. Aarsh., **28**, (1905), 1906-07, (13-50).

Kidd, Walter. The relation between muscular activity and beauty of form in animals. London, Trans. West Kent Nat. Hist. Soc., 1903-4, (46-57).

Kindle, Edward M[artin]. Faunas of the Devonian section near Altoona, Pa.

J. Geol., Chicago, Ill., **14**, 1906, (631-635).

King, Helen Dean. **1.** The effects of compression on the maturation and early development of the eggs of *Asterias forbesii*. Arch. Entw.Mech. Leipzig, **21**, 1906, (94-110, pls. i, ii).

King, H. D. **2.** The effects of compression on the maturation and early development of the eggs of *Asterias forbesii*. [Reprint.] Bryn Mawr, Pa., Bryn Mawr Coll. Monogr., (Reprint Ser.), **6**, 1906, (94-110).

King, H. D. **3.** The formation of the first polar spindle in the egg of *Bufo lentiginosus*. [Reprint.] Bryn Mawr, Pa., Bryn Mawr Coll. Monogr., (Reprint Ser.), **6**, 1906, (73-90, pl.).

Kirchner, Oskar. Die Krankheiten und Beschädigungen unserer landwirtschaftlichen Kulturpflanzen. Eine Anleitung zu ihrer Erkennung und Bekämpfung für Landwirte, Gärtner usw. 2., vollst. umgearb. Aufl. Lfg. 2-7. Stuttgart (E. Ulmer), 1906, (97-675 + vii). 24 cm. Die Lfg. 2 M. Compl. 14 M.

[**Klein**, Jacob Theodor.] Jacob Theodor Klein's Aufzeichnungen über sein Leben. (Wiederabdruck.) [Hrsg. v. Max Braun.] Zool. Ann., Würzburg, **2**, 1906, (135-141).

Knickenberg, F. Die Stimmlaute der Tiere sind Mitbewegungen. Natur u. Offenb., Münster, **52**, 1906, (345-352).

[**Knipovič**, N. M.] **1.** Книповичъ, Н. М. Основы гидрологии Европейскаго Ледовитаго Океана. [Grundzüge der Hydrologie des Europäischen Eismeeress]. St. Petersburg, Zap. Russ. Geogr. Obsč., **42**, 1906, (i-xii + 1-1399); deutsches Rés., (1401-1510, 10 Taf.).

[**Knipovič**, N. M.] **2.** Книповичъ, Н. М. Труды Каспійской экспедиции 1904 года. Т. 1. Общій обзоръ работъ Каспійской экспедиции 1904 года. [Arbeiten der Kaspischen Expedition im J. 1904. Bd. 1. Allgemeine Uebersicht der Arbeiten der Kaspischen Expedition in J. 1904.] St. Petersburg, 1906, (1 + 1-104); deutsches Rés. (105-113), mit 2 Karten.

Kobert, Rudolf. Lehrbuch der Intoxikationen. 2. durchweg neu bearb. Aufl. 2 Bde. Bd. II: Spezieller T. Stuttgart (F. Enke), 1906, (xxiv + 1298). 25 cm. 27 M.

Köhler, W[alter]. Das Photographieren lebender Wassertiere im Aquarium. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (223-227, 235-238, 243-247).

Kölliker Albert von; obituary vide Hanstein, R.

Koenig, Emil. Das Wesen der Fortpflanzung. Neue Gesichtspunkte. München (Seitz & Schauer), [1906], (53). 23 cm. 1.50 M.

Kohn, Alfred. Ueber die Entwicklung des peripheren Nervensystems. C.-R. ass. anat., 7^e session (Genève), **1905**, Nancy, 1906, (162-163).

[**Kolosow**, G.] Колосовъ, Г. Математическая теорія эволюціи видовъ по трудамъ проф. К. Pearson'a съ приложеніемъ къ изслѣдованіямъ проф. Н. П. Кузнецова. [Mathematische Theorie der Evolution der Arten nach Prof. K. Pearson mit Anwendung auf die Untersuchungen von Prof. N. Kusnezow.] Jurjev, Sitzb. Naturf. Ges., **15**, 1906, (101-117, 4 Tab.).

[**Korotnev**, A.] Коротневъ, А. Отчетъ о дѣятельности Вилла-Франкской Зоологической Станціи за 1903-1904 гг. [Bericht über die Thätigkeit der Zoologischen Station in Villa-Franca während der Jahre 1903-1904]. Kiev, Izv. Univ., **46**, 3, 1906, (1-74).

Korschelt, E[ugen]. **1.** Ueber Morphologie und Genese abweichend gestalteter Spermatozoen. Verh. D. zool. Ges., Leipzig, **16**, 1906, (73-82).

Korschelt, E. **2.** Das Alter der Tiere. Umschau, Frankfurt a. M., **10**, 1906, (986-988).

Korschelt, E. **3.** Ueber Regeneration und Transplantation im Tierreich. (Vortrag . . .) Natw. Rdsch., Braunschweig, **21**, 1906, (567-569, 580-582, 597-599).

Korschelt, E. **4.** Regeneration und Transplantation im Tierreich. Umschau, Frankfurt a. M., **10**, 1906, (824-829).

Korschelt, E. **5.** Ueber die Entstehungsgeschichte und weitere Entwicklung des Zoologischen Instituts der Universität Marburg. Verh. D. zool. Ges., Leipzig, **16**, 1906, (19-26).

Korschelt, E. **6.** Versuche an Lumbriciden und deren Lebensdauer im Vergleiche mit anderen wirbellosen Tieren. Verh. D. zool. Ges., Leipzig, **16**, 1906, (113-127).

Kostanecki, K[azimierz]. Ueber die Herkunft der Teilungscentren der ersten Furchungsspindel im befruchteten Ei. Arch. mikr. Anat., Bonn, **68**, 1906, (359-431, 2 Taf.).

Kostyleff. Critique de l'interprétation psychologique des phénomènes de la nature. Observations de MM. Artault, Giard, Perrier, Piéron, Oppenheimer. Bul. Inst. psych. internat., Paris, **4**, 1904, (88-103).

[**Koževnikov**, G.] Кожевниковъ, Г. Замѣтки по зоологической практикѣ. [Bemerkungen aus der zoologischen Praxis.] Jestestv. i. geogr., Moskva, **11**, 1906, 2, (72-80), 5, (64-74).

[**Kozlov**, P. K.] Козловъ, П. К. Монголія и Камъ. [Die Mongolei und das Land Cham.] Arbeiten der von der Kais. Russischen Geographischen Gesellschaft in d. J. 1899-1901 unter der Führung von P. K. Kozlov ausgerüsteten Expedition. Bd. I. Ausgabe der Kais. Russ. Geogr. Ges., St. Peterburg, 1905 [1906] und 1906, 2 Theile, (X+1 + X+734, 53 Taf. und 5 Karten.).

Krancher, O. Dr. Johann Dzierzon†. D. ill. Bienenztg, Leipzig, **23**, 1906, (175-177).

Kronfeld, Arthur. Sexualität und ästhetisches Empfinden in ihrem genetischen Zusammenhange. Eine Studie. Strassburg i. E. (J. Singer), 1906, (ix + 182). 19 cm. 2,50 M.

Kuckuck, Martin. 1. Über die Ursache der Reifeteilungen und den Charakter der Polkörper. Anat. Anz., Jena, **29**, 1906, (345-357).

Kuckuck. 2. Le caractère physiologique du sexe est l'état électrique des colloïdes des cellules sexuelles. Paris, C.-R. soc. biol., **60**, 1906, (774-775).

Künstler, J. 1. La nomenclature des éléments protoplasmiques. Paris, C.-R. soc. biol., **60**, 1906, (712-714).

Künstler, J. 2. Noyaux unis- et plurisphériques. Paris, C.-R. soc. biol., **60**, 1906, (315-316).

Künstler, J. et **Gineste**, Ch. 1. Modifications de constitution de la substance vivante consécutives aux variations du milieu. Paris, C.-R. soc. biol., **60**, 1906, (813-814).

Künstler, J. et **Gineste**, Ch. 2. Les cultures de Protozoaires et les variations

de la matière vivante. Paris, C.-R. Acad. sci., **143**, 1906, (365-367).

Kupelwieser, Hans. Versuche über Entwicklungserregung und Membranbildung bei Seeigeln durch Molluskensperma. (Vorl. Mitt.) Biol. Centralbl., Leipzig, **26**, 1906, (744-748).

[**Kuschakewitsch**, S.] Кушакевичъ, С. Очеркъ ученія о зародышевыхъ листахъ въ его прошломъ и настоящемъ. [Abriss der Keimblätterlehre in der Vergangenheit und der Gegenwart.] Odessa, Mém. Soc. nat., **29**, 1906, (83-166).

[**Kusnezow**, N. I.] Кузнецовъ, Н. И. 1. Памяти К. Е. ф. Баера. [Dem Andenken K. E. v. Baer's.] Jurjev, Sitzb. Naturf. Ges., **15**, 1, 1906, (vii-xii).

[**Kusnezow**, N. I.] Кузнецовъ, Н. И. 2. Къ вопросу о происхожденіи видовъ: варіація или мутація. [Zur Frage der Entstehung der Arten: Variabilität oder Mutabilität.] Jurjev, Sitzb. Naturf. Ges., **15**, 1, 1906, (xxi-xxv).

Lache, J. G. L'aspect du noyau de la cellule nerveuse dans la méthode à l'argent réduit. Anat. Anz., Jena, **28**, 1906, (162-168).

Lafitte, Jean. Parasitisme et mutualisme dans la nature. Nature, Paris, **34**, 1906, 2^e sem., (406-411).

Laguesse, E. Revue annuelle d'anatomie. Rev. gén. sci., Paris, **17**, 1906, (1062-1079).

[**Landau**, E. G.] Ландау, Э. Г. Къ морфології надпочечной железы. III. [Zur Morphologie der Nebenniere. III.] Jurjev, Sitzb. Naturf. Ges., **14**, 2, 1905, [1906], (143-153); deutsches Rés., (153-154).

Landrieu, Marcel. De Lamarck à Darwin. Revue des Idées, Paris, **3**, 1906, (493-512).

Lane, Alfred C. Isolation by choice. Science, New York, N.Y., **23**, 1906, (702).

Lang, Arnold. Über die Mendelschen Gesetze, Art- und Varietätenbildung, Mutation und Variation, insbesondere bei unsern Hain- und Gartenschnecken. Verh. schweiz. natf. Ges., Aarau, **88**, 1906, (209-254, 3 pls.).

Lange, D. de. De kiembladvorming van *Megalobatrachus maximus* (Schlegel). [The mode of origin of the germinal layers in *Megalobatrachus maximus* (Schlegel).] Amsterdam (Roeloffzen-Hübner en van Santen), 1906, (196, 4 pls.).

Lange, L. J. Gibt es eine Vererbung erworbener Eigenschaften? Polit.-anthr. Rev., Leipzig, **4**, 1906, (601-607).

Langenhan, A. Tier- und Pflanzenleben in einem der kleinsten Wasserbecken bei Liegnitz. Liegnitz, Mitt. Gesch. Ver., **1**, [1906], (152-157).

Lankester, E. Ray. **1.** Inaugural address. [The York meeting of the British Association.] Nature, London, **74**, 1906, (321-335).

Lankester, E. R. **2.** Inaugural address before the British Association for the advancement of science (concluding part). Science, N. York, N.Y., 1906, (225-238).

Largaiolli, Vittorio. Ricerche biolimpnologiche sui laghi trentini. I. Lago di Lavarone. Rivista mensile di Pesca, Milano, **8**, 1906, (20-25).

Larrabee, A. P. The optic chiasma of teleosts: a study of inheritance. [Cambridge, Mass., Cont. Mus. Comp. Zool., Harvard Coll., No. **184**.] Boston, Mass., Proc. Amer. Acad. Sci., **42**, 1906, (215-231).

Latter, Oswald H. **1.** The egg of *Cuculus canorus*. An attempt to ascertain from the dimensions of the cuckoo's egg if the species is tending to break up into sub-species, each exhibiting a preference for some one foster-parent. Biometrika, Cambridge, **4**, 1906, (363-373).

Latter, O. H. **2.** The equipment of a school museum. London, Mus. J., 1906, (164-172).

Lauer, Heinrich. **1.** Ergänzungen zu „Deutsche—insbesondere hessische—Tiernamen“ und zu dem „Nachtrag“. Zool. Beob., Frankfurt a. M., **47**, 1906, (376-378).

Lauer, H. **2.** Ein Gang durch den Zoologischen Garten in Basel. Zool. Beob., Frankfurt a. M., **47**, 1906, (321-329, 353-362).

Lauterborn, R[obert]. Demonstrationen aus der Fauna des Oberrheins

und seiner Umgebung. Verh. D. zool. Ges., Leipzig, **16**, 1906, (265-268).

Lea, John vide Coupin, H.

Lebrun, Hector. Application de la méthode des disques rotatifs à la technique microscopique. Zs. wiss. Mikrosk., Leipzig, **23**, 1906, (145-173).

Le Dantec, F. **1.** Introduction à la pathologie générale. Paris (Alcan), 1905, (504, av. fig.). 25 cm. 5.

(Le Dantec, F. **2.** Les influences ancestrales. Paris (Flammarion), 1905, 19 cm.)

Leduc, Stéphane. Croissance de la cellule artificielle. Paris, C.-R. Ass. franç. avanc. sci., **34**, (Cherbourg, 1905, 2^e Partie), 1906, (604-609).

Legendre, R. Nature pathologique des canalicules de Holmgren des cellules nerveuses. Paris, C.-R. Acad. sci., **141**, 1905, (1265-1267).

Lehmann, Otto. **1.** Die Aufgabe der Museen. Erwiderung [an B. Wandolleck]. Zool. Anz., Leipzig, **31**, 1906, (87-93).

Lehmann, O. **2.** Fließende Kristalle und Organismen. Arch. EntwMech., Leipzig, **21**, 1906, (596-609, pl. viii).

Leidy, Joseph, jun. Special anatomy and physiology of the Gasteropoda of the United States—Leidy. [A correction to: Leidy, Joseph Researches in helminthology and parasitology.] Science, New York, N.Y., N. Ser., **24**, 1906, (779).

Lemberger, Ignacy. O jadach zwierzęcych. [Sur les venins animaux.] Przegl. lek., Kraków, **45**, 1906, (776-780, 806-817, 828-829, 841-846, 860-864).

Lemmermann, E. Das Plankton einiger Teiche in der Umgegend von Bremerhaven. Arch. Hydrobiol., Stuttgart, **1**, 1906, (345-359).

Lenhossék, M[ichael] von. Zur Frage nach der Entwicklung der peripherischen Nervenfasern. Anat. Anz., Jena, **28**, 1906, (287-297).

Leontowitsch, A. Etwas über Neurilemkerne. (Zum „Vorschlag“ des Herrn Prof. O. Schultze.) Anat. Anz., Jena, **28**, 1906, (442-443).

[Leshaft, P.] Лешафтъ, П. Изучение суставовъ и мышцъ въ насто-

ящее время. [Das Studium der Gelenke und Muskeln in gegenwärtiger Zeit.] St. Petersburg, Bull. labor. biol., **7**, 4, 1905, (30-51) and **8**, 1906, (66-93).

Levy, Oscar. Mikroskopische Untersuchung zu Experimenten über den Einfluss der Radiumstrahlen auf embryonale und regenerative Entwicklung. Nach den hinterlassenen Präparaten von Prof. Alfred Schapercl. Arch. Entw.Mech., Leipzig, **21**, 1906, (130-149, 1 Taf.).

Lillie, Frank R. Observations and experiments concerning the elementary phenomena of embryonic development in *Chaetopterus*. J. exp. Zool., Baltimore, **3**, 1906, (153-268).

Linville, Henry R[ichardson] and **Kelly, Henry A.** A text-book in general zoölogy. Boston, New York [etc.] (Ginn) [c 1906], (x + 462) col. pl.). 20 cm.

Lister, J. J. Section D. Zoology. Opening address [British Association]. Nature, London, **74**, 1906, (400-406).

Lo Bianco, Salvatore. 1. Azione della pioggia di cenere, caduta durante l'eruzione del Vesuvio dell'aprile 1906, sugli animali marini. Mitt. zool. Stat. Neapel, Berlin, **18**, 1906, (73-104).

Lo Bianco, S. 2. Gli effetti della cenere del Vesuvio sugli organismi marini in seguito alla violenta eruzione dell'aprile 1906. Rivista mensile di Pesca, Milano, **8**, 1906, (92-94).

Lobley, J. Logan. Biological change in geological time. London, J. Trans. Vict. Inst., **38**, 1906, (93-122).

Loeb, Jacques. 1. The dynamics of living matter. New York, Columbia University biological series, **8**, 1906, (xi + 233),

Loeb, J. 2. Untersuchungen über künstliche Parthenogenese und das Wesen des Befruchtungsvorgangs. Deutsche Ausgabe unter Mitwirkung des Verf. hrsg. v. E. **Schwalbe**. Leipzig (J. A. Barth), 1906 (viii + 535). 20 cm. 7,50 M.

Loewenthal, W. Fritz Schaudinn †. Med. Klinik, Berlin, **2**, 1906, (693-694).

Loisel, Gustave. 1. Les lois de Mendel et l'hérédité. Revue des Idées, Paris, **1**, 1904, (668-676).

Loisel, G. 2. Le problème du déterminisme sexuel et de la procréation des sexes. Revue des Idées, Paris, **2**, 1905, (47-63).

Loisel, G. 3. La question de la télégonie. Revue des Idées, Paris, **2**, 1905, (310-313).

Loisel, G. 4. L'individu femelle, caractéristique générale. Revue des Idées, Paris, **2**, 1905, (356-361).

Loisel, G. 5. Projet de ré-organisation de la ménagerie du Muséum. Paris (Lahure), 1906, (6), in-4°.

Loisel, G. 6. Les idées des anciens et des modernes sur l'utilisation scientifique des ménageries. Revue des Idées, Paris, **3**, 1906, (538-545).

Loisel, G. 7. Expériences sur l'hérédité. Paris, C.-R. Ass. franç. avanc. sci., **34**, (Cherbourg, 1905, 2^e Partie), 1906, (560-562); Bull. Ass. franç. avanc. Sci., **1905**, (337).

Loisel, G. 8. Recherches sur l'hérédité des caractères du pelage chez les lapins. Paris, C.-R. soc. biol., **60**, 1906, (258-259).

Loisel, G. 9. L'hérédité de la pigmentation chez les pigeons. Paris, Bul. Ass. franç. avanc. sci., **1904**, (262-263).

Loisel, G. 10. Revue annuelle d'Embryologie. Rev. gén. sci., Paris, **17**, 1906, (456-473).

Loisel, G. 11. Relations entre les phénomènes du rut, de la lactation, de la mue et de l'amour maternel chez une Chienne hybride. Paris, C.-R. soc. biol., **60**, 1906, (255-258).

Loisel, G. 12. Expériences sur la toxicité des œufs. Paris, C.-R. Acad. sci., **141**, 1905, (730-731).

Loisel, G. 13. Exposé des titres et travaux scientifiques de M. G. Loisel. Paris (Lahure), 1906, (211). 27 cm.

(**Loisel, G.** 14. Toxicité du liquide séminal et considérations générales sur la toxicité des produits génitaux. Paris, C.-R. Acad. sci., **141**, 1905, (910-912).)

Loisel, G. et Chappellier, Albert. Les ouvrages de détermination d'animaux. Rev. sci., Paris, sér. 5, **6**, 1906, (365-366).

Łomnicki, Jarosław. O potrzebie zmiany w planie i sposobie nauki

historii naturalnej w naszej szkole średniej. [Sur la nécessité de réforme de l'enseignement d'histoire naturelle dans les lycées polonais.] Muzeum, Lwów, **22**, 2, 1906, (152-156).

Lorentz, F. Einiges über Mimikry. Zs. Natw., Stuttgart, **78**, 1906, (119-126).

Low, A. P. Report on the Dominion Government expedition to Hudson's Bay and the Arctic Islands on board the D.G.S. Neptune, 1903-1904. Ottawa, 1906, (xvii + 355).

Lowe, E. Ernest. The inductive method in installation. Museumkunde, Berlin, **2**, 1906, (84-87).

Lovén, Christian Weil. Anatomische und physiologische Arbeiten. Im Auftrage der Familie hrsg. v. Rob. Tigerstedt. Leipzig (Veit u. Co.), 1906, (xxiv + 374, 2 Portr. u. 8 Taf.). 24 cm. 15 M.

Lühe, M[ax]. Fritz Schaudinn†. Arch. Schiffshyg., Leipzig, **10**, 1906, (450-454).

Lydekker, R. Sir William Flower. London, 1906, (viii + 191). Svo.

Maass, Th. A. Tierische Gifte und Arzneistoffe. [In] Der Mensch u. die Erde, hrsg. v. H. Kraemer, Bd. 2. Berlin (Bong & Co.), [1906], (355-406, Taf.).

McCabe, Joseph. Translation; *vide* Guenther.

McClung, C[larance] E[rwin]. Comparative study of the spermatogenesis of insects. [Abstract of report on grant No. 16.] Washington, D.C., Carnegie Inst., Year Book No. **4**, (1905), 1906, (282-283).

(**McCracken**, Isabel. **1**. A study of the inheritance of dichromatism in *Lina lapponica*. J. Exp. Zool., Baltimore, Md., **2**, 1905, (117-136) 1 pl.)

McCracken, I. **2**. Inheritance of dichromatism in *Lina* and *Gastroidea*. J. Exp. Zool., Baltimore, Md., **3**, 1906, (321-336).

MacDougal, Daniel Trembly. **1**. Heredity and the origin of species. [Lecture delivered before the Barnard Botanical Club, Columbia University, Dec. 18, 1905.] The Monist, Chicago, Ill., **16**, 1906, (32-64, pl.).

MacDougal, D. T. **2**. Discontinuous variation. Science, New York, N.Y., **24**, 1906, (730, 731).

Maggi, Leopoldo. **1**. In morte di Carlo Gegenbaur. Milano, Rend. Ist. lomb., Ser. 2, **36**, 1903, (1022-1024).

Maggi, L. **2**. L' Anatomia comparata secondo Vogt e Yung. Milano, Rend. Ist. lomb., Ser. 2, **36**, 1903, (1123-1128).

[**Mamontov**, I.] Мамонтовъ, И. Памяти Россмессера. [Zur Erinnerung an Rossmässler.] Naturfreund, St. Petersburg, **1**, 1906, (2-4).

Mantegazza, Paolo. Darwin dopo cinquanta anni. Firenze, Archivio Soc. it. Antrop. Etnol., **35**, 1905, (311-322).

Marchi, Ezio. Geschlechtsdimorphismus bei Tieren und Haustieren. [Aus d. Ital. übers.] Jahrb. wiss. Tierzucht, Leipzig, **1**, 1906, (82-126).

Mark, E[dward] L[aurens] and **Cope-land**, Manton. Some stages in the spermatogenesis of the honey bee. [Cambridge, Mass., Cont. Mus. Comp. Zool., Harvard Coll., No. **179**.] Boston, Mass., Proc. Amer. Acad. Arts Sci., **42**, 1906, (101-112 pl.).

Mark, E[dward] L[aurens] *vide* Castle, W. E.

Martel, E. A. La spéléologie au xx^e siècle. Revue et bibliographie des recherches souterraines de 1901 à 1905. Spelunca, Paris, **6**, 1905, (192).

Martin, A. *vide* Jammes, L.

Mary, Alexandre *vide* Mary, Albert.

Mary, Albert et **Mary**, Alexandre. Evolution et transformisme. Beauvais, (1904-1905), 2 vol. Svo., av. pl.

Mast, S. O. Light reactions in lower organisms. **1**. *Stentor coeruleus*. [Cambridge, Mass., Cont. Mus. Comp. Zool., Harvard Coll., No. **180**.] J. Exp. Zool., Baltimore, Md., **3**, 1906, (359-399).

Mast, S. O. *vide* Castle, W. E.

May, Walther. Zur Geschichte des Grossh. Bad. Naturalienkabinetts in Karlsruhe (1751-1878). Karlsruhe, Verh. natw. Ver., **19**, (1905-1906), 1906, Abh., (1-19).

Mayer, Alfred G[oldsborough] and **Soule**, Caroline G. Some reactions of caterpillars and moths. J. Exp. Zool., Baltimore, Md., **3**, 1906, (415-433).

Mayer, Paul. Red. v. Zoologischer Jahresbericht für 1905. Hrsg. v. d. Zoolog. Station zu Neapel. Berlin (R.

Friedländer & S.), 1906, (29 + 10 + 31 + 14 + 70 + 3 + 71 + 34 + 12 + 251 + 32). 26 cm. 24 M.

Maximow, Alexander. Ueber die Zellformen des lockeren Bindegewebes. Arch. mikr. Anat., Bonn, **67**, 1906, (680-757) 3 Taf.

Méhely, Lajos. A vihart és földrengést jelző állatokról. [Über die Wetter und Erdbeben anzeigenden Tiere.] Term. Közl., Budapest, **38**, 1906, (213-219).

[**Meissner**, V. I.] Мейенеръ, В. П. Отчетъ о дѣятельности Волжской Биологической Станціи за 1905 г. [Bericht über die Thätigkeit der Biologischen Wolga-Station pro 1905.] Saratov, Trd. Obšč. jest., **4** (Beilage) 1906, (52) 2 Taf.

MencI, Em. Zur Vakuolisierung der Ganglienzellen. Anat. Anz., Jena, **28**, 1906, (216-222).

Ménégaux, A. Notice sur les titres et travaux scientifiques de M. A. Ménégaux. Paris (Masson), 1906, (93) av. fig.

Mercier, L. Les processus phagocytaires pendant la métamorphose des Batraciens anoures et des Insectes. Arch. zool., Paris, (sér. 4), **5**, 1906, 1-151.

Merriam, C[inton] Hart. Is mutation a factor in the evolution of the higher vertebrates? [Address of vice-president.] Proc. Amer. Ass. Adv. Sci., Washington, D.C., **55**, 1906, (383-408).

Mesnil, Félix. Fritz Schaudinn. Rev. gén. sci., Paris, **17**, 1906, (677-678).

Mesnil, F. *vide* Caullery, U.

Metcalf, Maynard M. **1**. An outline of the theory of organic evolution; with description of some of the phenomena which it explains. 2d ed., rev. New York (Macmillan), 1906, (22-212).

Metcalf, M. M. **2**. The influence of the plasticity of organisms upon evolution. Science, New York, N.Y., **23**, 1906, (786).

Metchnikoff, Elie. **1**. La mort naturelle dans le règne animal. Paris, Revue du mois, **1**, 1906, (73-81).

Metchnikoff, E. **2**. Recherches sur le blanchissement hivernal des poils et

des plumes. Paris, C.-R. Acad. sci., **142**, 1906, (1024-1028).

Meyer, Semi. Gedächtnis und Vererbung. Arch. Rassenbiol., Berlin, **3**, 1906, (629-645).

Mezzara. L'individualité animale. Observations de MM. Perrier, Baron. Bul. Inst. psych. internat., Paris, **3**, 1903, (581-584).

Michailovskij, M. N. Obituary, *vide* Skorikov, A.

Minchin, E. A. The scope and problems of protozoology. Nature, London, **75**, 1906, (115-117).

Minkiewicz. Romuald. **1**. Sur le chromotropisme et son inversion artificielle. Paris, C.-R. Acad. sci., **143**, 1906, (785-787).

Minkiewicz, R. **2**. Le rôle des phénomènes chromotropiques dans l'étude des problèmes biologiques et psychophysiologiques. Paris, C.-R. Acad. sci., **143**, 1906, (934-936).

[**Mitrofanova**, E. E.] Митрофанова, Е. Е. Памяти С. М. Переславцевой. [Zum Andenken an S. M. Perejaslavceva.] Varšava, Trd. Obšč. jest., **15**, 1904 [1905], (1-4).

Möbius, K[arl]. Können die Tiere Schönheit wahrnehmen und empfinden? Berlin, SitzBer. Ak. Wiss., **1906**, (302-310).

Möbius, P[aul] J[ulius]. Die Geschlechter der Tiere. Tl 3: Der Schädel. (Beiträge zur Lehre von den Geschlechts-Unterschieden, H. 11/12.) Halle a. S. (C. Marhold), 1906, (68). 24 cm. 2 M.

Monaco, Prince Albert de. Sur la septième campagne scientifique de la Princesse Alice. Paris, C.-R. Acad. sci., **142**, 1906, (621-625).

Montgomery, Tho[mas] H[arrison], jun. **1**. The terminology of aberrant chromosomes and their behavior in certain Hemiptera. [Publications from the Zoological Laboratory of the University of Texas, No. **71**.] Science, New York, N.Y., N. Ser., **23**, 1906, (36-38).

Montgomery, T. H., jun. **2**. Chromosomes in the spermatogenesis of the Hemiptera Heteroptera. [Austin, Cont. Zool. Lab. Univ. Tex., No. **72**.] Philadelphia, Pa., Trans. Amer. Phil. Soc., N. Ser., **21**, 1906, (97-173, pl.).

Montgomery, T. H. 3. The analysis of racial descent in animals. New York (Holt), 1906 (xi + 311). 22 cm.

Monti, Rina. 1. Le leggi del rinnovamento dell'organismo studiate negli animali ibernanti. Milano, Rend. Ist. lomb., Ser. 2, **38**, 1905, (714-719).

(Monti, R. 2. Un modo di migrazione del plancton [lacustre] fin qui sconosciuto. Milano, Rend. Ist. lomb., Ser. 2, **38**, 1905, (122-132).)

Moore, J. E. S. and Arnold, George. On the existence of permanent forms among the chromosomes of the first meiotic division in certain animals. London, R. Soc., B **77**, 1906, (563-570, pls. xxiv and xxv).

Moore, J. E. S. and Walker, C. E. The meiotic process in Mammalia. Liverpool, Thompson Yates Lab. Rep. N. ser., **7**, 1906, (75-88 7 pls.).

[Mordvilko, A. K.] Мордвилко, А. К. Паразитизмъ животныхъ. [Der Parasitismus der Thiere.] Continuation. Varšava, Izv. Univ., **1905**, 5, (33-48), 7, (49-64), **1906**, 3-4, (65-96).

Morgan, Lilian V. 1. Regeneration of grafted pieces of planarians. J. Exp. Zool., Baltimore, Md., **3**, 1906, (269-294).

Morgan, L. V. 2. Incomplete anterior regeneration in the absence of the brain in *Leptoplana littoralis*. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **9**, 1905, (187-193).

Morgan, T. H. 1. Self-fertilization induced by artificial means. J. Exp. Zool., Baltimore, Md., **1**, 1904, (135-178).

Morgan, T. H. 2. Hydranth formation and polarity in *Tubularia*. J. Exp. Zool., Baltimore, Md., **3**, 1906, (501-515).

Morgan, T. H. 3. The physiology of regeneration. J. Exp. Zool., Baltimore, Md., **3**, 1906, (457-500).

Morgan, T. H. 4. Germ-layers and regeneration. [Reprint.] Bryn Mawr, Pa., Bryn Mawr Coll. Monogr., (Reprint Ser.), **6**, 1906, (261-264, as original).

Morgan, T. H. 5. The relation between normal and abnormal development of the embryo of the frog: 6-10. [Reprint.] Bryn Mawr, Pa., Bryn Mawr Coll. Monogr., (Reprint Ser.), **6**, 1906,

(318-347, 566-587, 588-614, with text fig., pl., as original).

Morgan, T. H. 6. Regeneration of heteromorphic tails in posterior pieces of *Planaria simplicissima*. J. Exp. Zool., Baltimore, Md., **1**, 1904, (385-393).

Morgan, T. H. 7. "Polarity" considered as a phenomenon of gradation of materials. J. Exp. Zool., Baltimore, Md., **2**, 1905, (495-506).

Morgan, T. H. 8. An attempt to analyse the phenomena of polarity in *Tubularia*. J. Exp. Zool., Baltimore, Md., **1**, 1904, (587-591).

(Morgan, T. H. and Dimon, Abigail C. An examination of the problems of physiological "polarity" and of electrical polarity in the earthworm. J. Exp. Zool., Baltimore, Md., **1**, 1904, (331-347).)

Morgan, T. N. and Stevens, N. M. Experiments on polarity in *Tubularia*. J. Exp. Zool., Baltimore, Md., **1**, 1904, (559-585).

Morrill, C. V., jun. Regeneration of certain structures in *Fundulus heteroclitus*. [With bibliography.] Wood's Holl, Mass., Mar. Biol. Lab. Bull., **12**, 1906, (11-20).

Morse, Max. Notes on the behavior of *Gonionemus*. J. Comp. Neur. Psych., Granville, Ohio, **16**, 1906, (450-456).

Moser, Erwin. Demonstration embryonaler Skelette. Anat. Anz., Jena, **28**, 1906, (629-631).

Mossman, R. C. vide Brown, R. N. Rudmose.

Mosso, Angelo. Alberto von Kölliker. Commemorazione. Torino, Atti Acc. sc., **41**, (1905-6), 1906, (6-8).

Müller, R. Vildtet og Jagten i Sydgrønland. [Game and hunting in South-Greenland.] Kjöbenhavn (Hagerups Forlag), 1906, (1-522). 26 × 17. Price 10 Kr.

Müller, Robert. Jahrbuch für wissenschaftliche und praktische Tierzucht einschliesslich der Züchtungsbiologie. Bearb. v. Disselhorst . . . [u. A.]. Hrsg. v. Robert Müller. Jg 1. Leipzig (R. C. Schmidt & Co.), 1906, (388). 24 cm.

Müller, W. Das Aufleben aus der Erstarrung. Bremen, Abh. natw. Ver., **18**, 1906, (281-297).

Nabias, de. 1. Méthode de Apathy. Bordeaux, Actes soc. linn., (sér. 6, 10), 60, 1905, (Proc.-verb., lxxvi-lxxvii).

Nabias, de. 2. Action de l'hydroxylamine sur le virage de l'or en histologie. Bordeaux, Actes soc. linn., 60, 1905, Proc.-verb., (lxxvii-lxxviii).

Nageotte, J. La structure fine du système nerveux. Revue des Idées, Paris, 2, 1905, (1-29, 108-129).

Nathanson, Alexander. Ueber die Bedeutung vertikaler Wasserbewegungen für die Produktion des Planktons im Meere. Leipzig, Abh. Ges. Wiss., math.-phys. Kl., 29, 1906, (355-441).

NEHRING, Alfred obituary, v. Rörig, G.

Neubauer, Otto. Ueber die chemische und biologische Bedeutung der Osmiumschwärzung. München, SitzBer. Ges. Morph., 19, (1903), H. 2, 1904, (31).

Neumayer, Vic. L. Eine Modifikation der Härtung mit Formaldehyd unter Beseitigung des Geruches desselben. Anat. Anz., Jena, 29, 1906, (378-379).

Neveu-Lemaire, M. Voyage à travers les hauts plateaux boliviens. Paris, Mém. soc. zool., 17, 1905, (202-226).

Nichols, M. L. Chromosome relations in the spermatocytes of *Oniscus*. Wood's Holl, Mass., Mar. Biol. Lab. Bull., 12, 1906, (26-30).

Nishikawa, [Tōkichi]. Shin-an Haku-butsu Hyōhon Seihō. [A new way of mounting natural history specimens and preparations for demonstration and museum purposes.] Dobuts. Z., Tokyo, 18, 1906, (165-167).

Noorduyn, C[ornelis] L[laurens] W[illem]. Een tegenspraak van Mendel's wet der erfelijkheid. [An exception to Mendel's law of heredity.] Album der Natuur, Haarlem, 1906, (320-323).

Nowlin, W. N. A study of the spermatogenesis of *Coptocyclus aurichalea* and *Coptocyclus guttata*, with especial reference to the problem of sex-determination. J. Exp. Zool., Baltimore, Md., 3, 1906, (583-600 + 2 l. 2 pls.).

Nusbaum, Józef. Wiadomości z zoologii dla klas niższych szkół średnich, ze współudziałem Tad. Wiśniowskiego. Wydanie II z licznymi rysunkami w tekście i ośmiu tablicami. [Éléments de zoologie, à l'usage des classes in-

férieures des collèges, en collaboration avec M. T. Wiśniowski. II Edition avec figures en texte et 8 tables.] Lwów (K. S. Jakubowski), 1906, (iv + 204). Svo. Kor. 3.40.

Nusbaum, Józef und Kulczycki, Włodzimierz. Materialien zur vergleichenden Histologie der Hautdecke der Wirbeltiere. Anat. Anz., Jena, 28, 1906, (337-351).

Nussac, Louis de. Les premiers rapports de Latreille avec le Muséum, d'après une lettre de Lamarck. Bul. Muséum, Paris, 12, 1906, (7-11).

Nussbaum, M[oritz]. 1. Befruchtung und Vererbung. Anat. Anz., Jena, 28, 1906, (409-414).

Nussbaum, M. 2. Mutationserscheinungen bei Tieren. Bonn (F. Cohen), 1906, (24). 23 cm.

Ochsenius, C[arl]. Dr. Rudolf Aman-dus Philippi. Halle, Leopoldina, 42, 1906, (16-20, 39-40, 53-56, 59-66).

[**Olga.**] Zoologische Ergebnisse einer Untersuchungsfahrt des deutschen Seefischerei-Vereins nach der Bäreninsel und Westspitzbergen, ausgeführt im Sommer 1898 auf S. M. S. „Olga“. Bearb. nach Sammlungen v. Cl. Hartlaub. Hrsg. v. d. Biolog. Anstalt auf Helgoland. VII: Kükenthal, Alcyonaceen. VIII: Kluge, Bryozoen. Wiss. Meeresunters., Kiel, (N.F.), 8, Abt. Helgoland, 1906, (17-30, mit 1 Taf., 31-55).

Ortman, A. E. 1. Isolation as one of the factors in evolution. Science, New York, N.Y., 23, 1906, (70-72).

Ortman, A. E. 2. A case of isolation without barriers. Science, New York, N.Y., 23, 1906, (504-506).

Ortmann, A. E. 5. Facts and theories in evolution. Science, New York, N.Y., 23, 1906, (947-952).

Ortmann, A. E. 4. The fallacy of the mutation theory. Science, New York, N.Y., 23, 1906, (746-748).

Ortmann, A. E. 3. Dr. O. F. Cook's conception of evolution. Science, New York, N.Y., 23, 1906, (667-669).

Ortmann, A. E. 6. The mutation theory again. Science, New York, N.Y., 24, 1906, (214-217).

Ortmann, A. E. 7. Evolution (Cook) and mutation (Waagen). Science, New York, N.Y., 24, 1906, (728-730).

Ortvay, Tivadar. Dr. Kornhuber András, 1824-1905. (Ungarisch) Pozsonyi Orv. term. Egl. Közlem., **26**, [1905] 1906, (1-17).

Ošanin, V. F. *vide* Vasinevskij, Evg.

Osburn, Raymond C[arroll]. Adaptive modifications of the limb skeleton in aquatic reptiles and mammals. New York, N.Y., Ann. Acad. Sci., **16**, 1906, (447-482 pl.).

Ostenfeld, C. H. Conseil permanent international pour l'exploration de la mer. Catalogue des espèces de plantes et d'animaux observées dans le Plankton recueilli pendant les expéditions périodiques depuis le mois d'Avout 1902 jusqu'au mois de Mai 1905, publié par le bureau avec la coopération de C. H. Ostenfeld. København, (Ser. C: publications de circonstances). No. **33**, 1906, (50-122). 25½ x 17. Price 2 Kr.

Ostwald, Wolfgang. Zur Theorie der Richtungsbewegungen niederer schwimmender Organismen. II. Arch. ges. Physiol., Bonn, **111**, 1906, (452-472).

OVSIANNIKOV, Filipp Vasil'evič; obituary, *vide* Grimm, O.

OVSIANNIKOV, F. V., obituary, *vide* Tur, Th.

Pack, Fred J. Cambrian fossils from the Pioche mountains, Nevada. J. Geol., Chicago, Ill., **14**, 1906, (290-302 pl.).

Page, William. **1.** The Victoria history of the county of Cornwall. **1.** London, 1906, (xxv + 586). [Natural history by numerous authors, (1-352).]

Page, W. **2.** The Victoria history of the county of Devon. **1.** London, 1906, (xxv + 630). [Natural history by numerous authors, (1-340).]

Page, W. **3.** The Victoria history of the county of Somerset. **1.** London, 1906, (xxv p. 537). [Natural history by numerous authors, (1-166).]

Page, W. *vide* Ditchfield, P. H.

[**Palladin**, V. I.] Палладинъ, В. И. Отчетъ Секретаря о дѣятельности Императорскаго С.-Петербургскаго Общества Естественныхъ Исследователей за 1905 годъ. [Bericht des Sekretärs über die Thätigkeit der Kaiserlichen St. Petersburger Naturforscher-Gesellschaft für d. J. 1905] St. Peterburg, Trav. Soc. Nat., **37**, 1, 1906, (95-99).

Parker, G[eorge] H[oward]. **1.** The influence of light and heat on the movement of the melanophore pigment, especially in lizards. [Cambridge, Mass., Cont. Mus. Comp. Zool. Harvard Coll., No. **183**.] J. Exp. Zool., Baltimore, Md., **3**, (401-414).

(**Parker**, G. H. **2.** The movements of the swimming-plates in Ctenophores, with reference to the theories of ciliary metachronism. J. Exp. Zool., Baltimore, Md., **2**, 1905, (407-423).)

Parona, Corrado. Prof. Michele Stossich. Genova, Atti Soc. ligustica sc. nat. geogr., **17**, 1906, (150-152).

Pauly, August. Bemerkungen zu dem Gegensatz zwischen Darwins und Lamarcks Lehren vom organischen Zweckmässigen. Polit.-anthr. Rev., Leipzig, **5**, 1906, (369-375).

(**Pavesi**, Pietro. Fauna augustana. Sunto. Milano, Rend. Ist. lomb., Ser. 2, **36**, 1903, (996-997).)

(**Pavie**, Auguste. Recherches sur l'Histoire naturelle de l'Indo-Chine Orientale. Mission Pavie, (1879-1895), **3**, 1904, Paris (E. Leroux), (549 a. pl.) 27 cm.)

Payne, Fernandus. The eyes of the blind vertebrates of North America. **7.** The eyes of *Amphisbaena punctata* (Bell), a blind lizard from Cuba. [Contributions from the Zoological laboratory of Indiana University, No. **77**.] Wood's Holl, Mass., Mar. Biol. Lab. Bull., **11**, 1906, (69-70 pl.).

Pearl, Raymond. **1.** A biometrical study of conjugation in *Paramaecium*. (Abstract) London, Proc. R. Soc., B **77**, 1906, (377-383).

Pearl, R. **2.** Investigation by statistical methods of correlation in variation. [Abstract of report on grant No. 266.] Washington, D.C., Carnegie Inst., Year Book No. **4**, (1905), 1906, (285-286).

Pearson, Karl *vide* Barrington, A.

Pelseneer, Paul. L'origine des faunes d'eau douce. Revue du mois, Paris, **2**, 1906, (413-425).

(**Pérez**, Ch. **1.** Revue annuelle des thèses de zoologie. Rev. sci., Paris, sér. 5, **3**, 1905, (362-367).)

Pérez, C. **2.** Revue annuelle des thèses de Zoologie. Rev. sci., Paris, sér. 5, **6**, 1906, (41-47).

Perino, J. Vererbungsproblem. *Natw. Wochenschr.*, Jena, **21**, 1906, (438-441).

Perrier, Ed. Les forces physiques et l'hérédité dans la production des types organiques. *Rev. sci.*, Paris, sér. 5, **1**, 1904, (481-481).

(**Peter, Karl.** **1.** Über individuelle Variabilität in der tierischen Entwicklung. *Verh. Ges. D. Natf.*, Leipzig, **76**, (1904), II, 2, 1905, (470-474).

Peter, K. **2.** Die Methoden der Rekonstruktion. Jena (G. Fischer), 1906, (viii + 140). 21 cm. 3 M.

Peterson, O[laf] A[ugust]. The Agate spring fossil quarry. Pittsburg, Pa., *Ann. Carnegie Mus.*, **3**, 1906, (487-494).

Petrucchi, R. Origine polyphylétique, homotypie et non comparabilité directe des sociétés animales. Bruxelles, 1906, (viii + 126).

Peyerimhoff, P. **1.** Considérations sur les origines de la faune souterraine. Paris, *Ann. soc. ent.*, **75**, 1906, (223-233).

Peyerimhoff, P. de. **2.** Recherches sur la faune cavernicole des Basses-Alpes. Paris, *Ann. soc. ent.*, **75**, 1906, (203-222) carte.

Pflüger, Eduard. Ueber den elementaren Bau des Nervensystems. *Arch. ges. Physiol.*, Bonn, **112**, 1906, (1-69).

Phillips, E. F. *vide* Rommel, G. M., **1 & 2.**

Piéron, Henri *vide* Bohn, Georges.

Pillsbury, W. B. Trial and error as a factor in evolution. *Pop. Sci. Mon.*, New York, N.Y., **68**, 1906, (276-282).

Pinoy, E. Nouvel appareil de microphotographie: possibilité d'obtenir, même à de forts grossissements, une image donnant l'idée de la structure d'un objet présentant une certaine épaisseur. Paris, *C.-R. soc. biol.*, **61**, 1906, (552-554).

Pirie, J. H. Harvey *vide* Brown, R. N. Rudmose.

(**Pizon, Antoine.** Recherches sur une prétendue ovulase des spermatozoïdes. Paris, *C.-R. Acad. sci.*, **141**, 1905, (908-910).)

Plate, L[udwig]. **1.** Ueber Vererbung und die Notwendigkeit der Gründung einer Versuchsanstalt für Vererbungs- und Züchtungskunde. Vortrag

. . . *Arch. Rassenbiol.*, Berlin, **3**, 1906, (777-796).

Plate, L. **2.** Das Sammeln und Konservieren wirbelloser Seetiere. [In] Anleitung zu wiss. Beobachtungen auf Reisen. 3. Aufl. Bd. 2. Hannover (M. Jänecke), 1906, (595-640).

Plate, L. **3.** Darwinismus kontra Mutationstheorie. *Arch. Rassenbiol.*, Berlin, **3**, 1906, (183-200).

Pleyel, Josef von. Zoologische Gärten und naturhistorische Museen. *Natw. Wochenschr.*, Jena, **21**, 1906, (689-695).

Popoff, Methodi. Zur Frage der Homologisierung des Binnennetzes der Ganglienzellen mit den Chromidien (= Mitochondria etc.) der Geschlechtszellen. *Anat. Anz.*, Jena, **29**, 1906, (249-258).

Powers, H. C. A three-fold development. A study in evolution. Sioux City, Iowa, *Proc. Acad. Sci.*, **2**, 1906, (139-165).

Pratt, A. E. and Pratt, H. Two years among New Guinea cannibals. A naturalist's sojourn among the aborigines of unexplored New Guinea. London, 1906, Svo., (359, pls. and map).

Pratt, H. S. A course in Vertebrate Zoology. London and Boston (x + 299).

Prince, Edward E. Animal coloration. Ottawa Nat., **20**, 1906, (153-161).

Protz, A. [Faunistische Untersuchung der Gewässer des Zehlaubachs.] Königsberg, *Schr. physik. Ges.*, **47**, 1906, (78-80).

Prowazek, S. **1.** Ueber das Wesen der Befruchtung. *Wr. Klin. Rdsch.*, Wien, **20**, 1906, (66-67).

Prowazek, S. **2.** Die Vererbung und ihre materiellen Träger. *Wr. Klin. Rdsch.*, Wien, **20**, 1906, (582-583).

Prowazek, S. v. *vide* Hartmann, M.

Przibram, H. Kristall-Analogien zur Entwicklungsmechanik der Organismen. *Arch. EntwMech.*, Leipzig, **22**, (207-287).

Punnett, R. C. Sex-determination in *Hydatina*, with some remarks on parthenogenesis. London, *Proc. R. Soc.*, B **78**, 1906, (223-231 pl. xi).

Punnett, R. C. *vide* Bateson, W.

Quajat, E. Sur la parthénogenèse artificielle des œufs du bombyx du mûrier. (Recherches expérimentales) Mâcon, Bul. soc. sci. nat., **2**, 1906, (218-229).

Quayle, Alfred. Plant or animal: an elementary biological sketch. Southport, Rep. Soc. Nat. Sci., **10**, 1906, (35-53).

Quinton, René. 1. Réponse à une critique de M. Le Dantec, touchant la loi de constance marine originelle. Revue des Idées, Paris, **1**, 1904, (877-879).

Quinton, R. 2. Loi générale de constance originelle du milieu vital des cellules. Revue des Idées, Paris, **1**, 1904, (29-48).

Quinton, R. 3. Maintien du milieu marin originel, comme milieu vital chez les Vertébrés. Revue des Idées, Paris, **1**, 1904, (187-199).

Rabaud, Étienne. 1. L'auto-adaptation des embryons monstrueux et la "tendance à l'anomalie." Paris, C.-R. Acad. sci., **143**, 1906, (77-79).

Rabaud, E. 2. Les corrélations embryonnaires. Revue des Idées, Paris, **1**, 1904, (753-771).

Rabe, Max. Joachim Rohweder. D. Tierfreund, Leipzig, **10**, 1906, (90-93).

Rabes, O. 1. Die Augen der Tiefseetiere. Himmel u. Erde, Berlin, **18**, (193-211).

Rabes, O. 2. Einwanderer aus Osten. Aus. d. Natur, Stuttgart, **2**, 1906, (433-440).

Rabes, O. 3. Blutspritzende Thiere. Prometheus, Berlin, **17**, 1906, (696-699).

Rainbow, W[illiam] J[oseph]. A study in natural selection. Sydney, N.S.W., The Australian Naturalist, **1**, 1906, (39-44).

Ranke, Karl E. Die Theorie der Korrelation. Nach den grundlegenden Arbeiten von Francis Galton, Karl Pearson und Udry Yule referiert. Arch. Anthr., Braunschweig, N.F., **4**, 1906, (168-202).

Ransom, B. H. How parasites are transmitted. Washington, D.C., Yearbook U.S. Dept. Agric., **1905**, 1906, (139-166) pl.

Rauber, A[ugust]. Anatomisches Wäldchen. Beitrag zur Vervollständigung der anatomischen Lehrmittel. Anat. Anz., Jena, **29**, 1906, (372-375).

Rauschenplat. Das Plankton des Meeres. Prometheus, Berlin, **17**, 1906, (293-298).

Raymond, Percy E. The Chazy formation and its fauna. Pittsburg, Pa., Ann. Carnegie Mus., **3**, 1906, (498-598 pl.).

Regaud, Cl. et Blanc, J. 1. Effets généraux produits par les rayons de Röntgen sur les cellules vivantes d'après les résultats observés jusqu'à présent dans l'épithélium séminal. Paris, C.-R. soc. biol., **61**, 1906, (731-733).

Regaud, Cl. et Blanc, J. 2. Action des rayons X sur les diverses générations de la lignée spermatique. Extrême sensibilité des spermatogonies à ces rayons. Paris, C.-R. soc. biol., **61**, 1906, (163-165).

(**Régis, Jacques.** Les cris des animaux. Naturaliste, Paris, sér. 2, **27**, 1905, (26-27, 50-52, 61-62, 74-75, 99-100).)

Reichle, Carl *vide* Günther, Carl.

Reinke, Fr[iedrich]. 1. Ueber die Beziehungen der Wanderzellen zu den Zellbrücken, Zelllücken und Trophospongien. Anat. Anz., Jena, **28**, 1906, (369-378).

Reinke, F. 2. Die Beziehungen des Lymphdruckes zu den Erscheinungen der Regeneration und des Wachstums. Arch. mikr. Anat., Bonn, **68**, 1906, (252-278), 1 Taf.

Reinke, J[ohannes]. Hypothesen, Voraussetzungen, Probleme in der Biologie. Vortrag . . . [In] Résultats scientif. du congrès intern. de Bot. Vienne 1905.] Jena (G. Fischer), 1906, (1-11).

Renaudet, G. Translation, *vide* Herrera, A. L.

Renaut, J. et Dubreuil, G. Sur les cellules rhagiocrines libres du liquide des diverses séreuses. Paris, C.-R. soc. biol., **60**, 1906, (34-37).

[**Repjachov, V. M.**] Репяховъ, В. М. Введеніе въ изученіе Медицинской Зоологіи. [Einführung in das Studium der medizinischen Zoologie.] Odessa, 1905, (70). 22 cm.

Retterer, Ed. 1. Nature et origine des fibres de Sharpey. Paris, C.-R. soc. biol., **60**, 1906, (7-10).

Retterer, E. 2. Technique pour l'étude du tissu osseux rougi par l'alimentation garancée. Paris, C.-R. soc. biol., **60**, 1906, (16-49).

Retterer, E. 3. Des colorations intravitales et post-vitales du tissu osseux. Paris, C.-R. soc. biol., **60**, 1906, (106-109).

Retterer, E. 4. De la valeur cellulaire des hématies des Mammifères et de l'origine de leurs parties constituantes. Paris, C.-R. soc. biol., **60**, 1906, (1102-1104).

Retzius, Gustaf. Ueber die von Ruffini beschriebene „guaina subsidiaria“ der Nervenfasern. Anat. Anz., Jena, **28**, 1906, (1-4).

Richard, J. 1. Sur l'état actuel du musée Océanographique de Monaco et sur les travaux qui s'y poursuivent. Paris, Bul. soc. zool., **28**, 1903, (57-62).

(Richard, J. 2. Campagne scientifique du yacht Princesse Alice en 1902. Paris, Bul. soc. zool., **28**, 1903, (63-79).)

Rignano, Eugenio. 1. Sur la transmissibilité des caractères acquis. Hypothèse d'une centroépigénèse. Paris (Alcan), [Bibliothèque de Philosophie contemporaine], 1906, (320). 23 cm.

Rignano, E. 2. Die centroepigenetische Hypothese und der Einfluss des Centralnervensystems auf embryonale Entwicklung und Regeneration. Arch. EntwMech., Leipzig, **21**, 1906, (792-800).

Robertson, Charles. Ecological adaptation and ecological selection. Science, New York, N.Y., N. Ser., **23**, 1906, (307-310).

Römer, F[ritz]. Die Fenersgefahr in den naturhistorischen Museen. Museumskunde, Berlin **2**, 1906, (74-79).

Römer, Fritz und Schaudinn, Fritz. Fauna Arctica. Eine Zusammenstellung der arktischen Tierformen mit besonderer Berücksichtigung des Spitzbergen-Gebietes auf Grund der Ergebnisse der deutschen Expedition in das nördliche Eismeer im Jahre 1898. Unter Mitwirkung zahlreicher Fachgenossen hrsg. v. Fritz Römer und Fritz Schaudinn. Bd 4, Lfg 3: Strand, Arachniden; Maas, Medusen; Werner, Reptilien. Jena (G. Fischer), 1906, (431-544). 36 cm. 12 M.

(x-9720 q)

Rörig, G[org]. 1. Alfred Nehrung†. Zool. Ann., Würzburg, **2**, 1906, (1-29), Portr.

Rörig, G. 2. Tierwelt und Landwirtschaft. Des Landwirtes Freunde und Feinde unter den freilebenden Tieren. Stuttgart (E. Ulmer), 1906, (viii + 418, 5 Taf.). 25 cm. Geb. 10 M.

Rohweder, J[oa]chim. Instinkt und Seelenleben. Vortrag . . . D. Tierfreund, Leipzig, **10**, 1906, (165-169, 209-213, 253-258).

Romer, Eugeniusz. Spis prac odnoznaczonych się do fizyografii ziem polskich za lata 1903, 1901 i 1905. [Liste des travaux relatifs à la Physiographie de la Pologne, publiés en 1903, 1901 et 1905]. Kosmos, Lwów, **31**, 1906, (1-166).

Rommel, G. M. and Phillips, E. F. Inheritance in the female line of size of litter in Poland China sows. Biometrika, Cambridge, **5**, 1906, (203-205).

Rommel, Geo. M. and Phillips, E[verett] F[ranklin]. 2. Inheritance in the female line of size of litter in Poland China sows. Philadelphia, Pa., Proc. Amer. Phil. Soc., **45**, 1906, (245-254). [0223].

Rosa, Daniele. Vi è una legge della riduzione progressiva della variabilità. Risposta al Prof. L. Plate. Biologica, Torino, **1**, 1906, (11-25).

Rothe, H. H. Die Schutz- und Trutzfarben der Tiere. D. Jägerztg, Neudamm, **46**, 1906, (591-595).

Rothschild, Maurice de. Exploration de l'Afrique orientale. Paris, C.-R. Acad. sci., **141**, 1905, (1039-1011).

Roule, Louis. Le repeuplement des eaux douces. Paris, C.-R. Ass. franç. avanc. sci., **35**, (Lyon, 1906, 1^{re} Partie), 1906, (117).

Rouse, John E. The mental life of the domestic pigeon. An experimental study of certain emotional and associative processes. Harvard Psych. Stud., Boston, Mass., **2**, 1906, (581-613).

Roux, W. und Braus, Hermann. Experimentelle Beiträge zur Morphologie. Bd I. Heft i. Leipzig, 1906. Arch. EntwMech., **21**, 1906, (362-366).

Ruffini, Angelo. 1. Le espansioni nervose periferiche alla luce dell'analisi moderna. Mon. zool. ital., Firenze, **17**, 1906, (16-33, 68-87).

Ruffini, A. 2. Un metodo di reazione al cloruro d'oro per le fibre e le espansioni nervose periferiche. Siena, Atti Acc. fisiocritici, Ser. 4, **14**, 1902, (25-28).

Russo, Michele *vide* Fürth, Otto von.

Ruthven, A. G. An ecological survey in the Porcupine mountains and Isle Royale, Michigan. Michigan, Rep. Geol. Surv., Lansing, **1905**, 1906, (17-55).

Ružička, Vladislav. Der morphologische Metabolismus des lebenden Protoplasmas. Arch. EntwMech., Leipzig, **21**, 1906, (306-356), 1 Taf.

Salmon, J. Considérations sur la morphologie des rudiments squelettiques chez les monstres ectoméliens. Paris, C.-R. soc. biol., **61**, 1906, (489-491).

Sanderson, E[zra] D[wight]. National control of introduced insect pests. Pop. Sci. Mon., New York, N.Y., **68**, 1906, (431-439).

Santini de Riols, E. Animaux mythologiques, légendaires, historiques, illustres, célèbres, curieux par leurs traits d'intelligence, d'adresse, de courage, de bonté, d'attachement, de reconnaissance, etc. Naturaliste, Paris, **25**, 1903, (205-208); **26**, 1904, (33-36, 46-48, 133-135, 191-193); **27**, 1905, (109-111, 121-123, 133-135); **28**, 1906, (223-230, 240-243, 252-254).

Sanzo, Luigi. Trasformazione sperimentale delle uova lecitiche diffuse in uova telolecitiche. Roma, Ric. Lab. anat. norm., **10**, fasc. 3, 1904, (263-272, 1 tav.).

Sartorius, K. *vide* Focke, Wilhelm Olbers.

[**Satunin, K. A.**] Сатунинъ, К. А. 1. Очерки природы Кавказа. IV. Изъ Гуринъ черезъ Мезхійскій хребетъ. [Skizzen zur Naturbeschreibung des Kaukasus. IV. Aus Gurien über das Messchii-kij - Gebirge.] Jestestv. i geogr., Moskva, **11**, 1906, 2, (50-64).

[**Satunin, K. A.**] Сатунинъ, К. А. 2. Проф. Альфредъ Нерингъ. [Professor Alfred Nehring.] Prir. i ochota, Moskva, **1906**, 2-3, Beil., (43-45).

[**Satunin, K. A.**] Сатунинъ, К. А. 3. Зоологическая поездка по истокамъ Куры. [Eine zoologische Excursion nach den Quellen der Kura.]

Prir. i ochota, Moskva, **34**, 1, 1906, Beilage, (16-20).

Schaeck, F. de. Cartes de distribution géographique pour collections d'animaux. Naturaliste, Paris, ser. 2, **26**, 1904, (155-156).

Schaudinn, Fritz; obituaries, *vide* Romer, Fritz; also Wolff.

Schiefferdecker, P. Ueber das Verhalten der Fibrillen des Achsenzylinders an den Ranvierschen Einschnürungen der markhaltigen Nervenfasern. Arch. mikr. Anat., Bonn, **67**, 1906, (783-798, 1 Taf.).

Schiefferdecker, P[aul]. Neurone und Neuronenbahnen. Leipzig (J. A. Barth), 1906, (VIII + 323). 24 cm. 11 M.

[**Schlater, G. G.**] Шлатеръ, Г. Г. О тончайшемъ строении сократительнаго вещества. [Ueber den feineren Bau der contractilen Substanz.] St. Peterburg, Trav. Soc. nat., **37**, 1, 1906, (73-77); deutsches Rés., (85-88).

Schmeil, Otto. 1. Lehrbuch der Zoologie für höhere Lehranstalten . . . Unter besonderer Berücksichtigung biologischer Verhältnisse bearb. 16. Aufl. Leipzig (E. Nägele), 1906, (xii + 524), 22 Taf. 22 cm. Geb. 4,50 M.

Schmeil, O. 2. Zoologische Wandtafeln. Taf. 5: Ringelmutter und Kreuzotter. 6: Korallen. 12: Bandwürmer. Stuttgart (E. Nägele), 1906. Die Taf. ca. 110 x 150 cm. Mit Text je 4,80 M., aufgez. m. Stäben 7,50-8 M.

[**Schmidt, P[etr] J[ulievič].**] Шмидтъ, П. Ю. 1. Явленія совпаденія въ животномъ царствѣ. [Ueber die Konvergenzerscheinungen im Tierreiche.] Jestestv. i geogr., Moskva, **11**, 1906, 9, (26-47).

[**Schmidt, P. J.**] Шмидтъ, П. Ю. 2. Проектъ восточной научно-промышленной экспедиціи. [Project einer wissenschaftlich-gewerblichen Expedition nach den Gewässern des Ostens.] St. Peterburg, 1906, (14). 26 cm.

Schmiedeknecht, Otto. Die Wirbeltiere Europas mit Berücksichtigung der Faunen von Vorderasien und Nordafrika. Analytisch bearb. Jena (G. Fischer), 1906, (vii + 472). 23 cm. 10 M.

Schnee. 1. Tierleben am Strande eines Atolles. Aus d. Natur, Stuttgart, 2, 1906, (257-263, 302-306, 1 Taf.).

Schnee. 2. Spaziergehende Fische, musizierende Krebse und andere sonderbare Gesellen. Kosmos, Stuttgart, 3, 1906, (38-45).

Schneider, Karl Camillo. Einführung in die Deszendenztheorie. Sechs Vorträge. Jena (G. Fischer), 1906, (viii + 147) 2 Taf. 24 cm. 4 M.

Schoenichen, Walther. Aus der Wiege des Lebens. Eine Einführung in die Biologie der niederen Meerestiere. (Die Natur, Sammlung naturw. Monographien, hrsg. v. W. Schoenichen. Bd. 1.) Osterwieck (A. W. Zickfeldt), [1906], (130, 9 Taf.). 19 cm. 2 M.

Schorler, B. und **Thallwitz,** J. Pflanzen- und Tierwelt des Moritzburger Grossteiches bei Dresden. Ann. Biol. lacustre, Bruxelles, 1, 1906, (193-310).

Schuberg, A[ugust]. Bestimmungsübungen und Exkursionen. Zur Einführung der Lehramtskandidaten in die Kenntnis der einheimischen Fauna. Natur u. Schule, Leipzig, 5, 1906, (49-57, 101-114).

Schuchert, Charles. The Russian Carboniferous and Permian compared with those of India and America. A review and discussion. Amer. J. Sci., New Haven, Conn., Ser. 4, 22, 1906, (29-46, 143-158, pl.).

Schuchert, Charles and **Buckman,** S. S. 1. The nomenclature of types in natural history. Museumskunde, Berlin, 2, 1906, (88-90).

Schuchert, C. et **Buckmann,** S. S. 2. La nomenclature des types d'histoire naturelle [trad. par Louis Brasil]. Arch. zool., Paris, sér. 4, 4, 1905, Notes et Rev. (xiv-xvi).

Schücking. Sind Zellkern und Zellplasma selbständige Systeme? Arch. EntwMech., Leipzig, 22, 1906, (342-347).

Schulze, E. Das Tierreich. Lfg 21. *Amphipoda* 1. *Gammaridea* v. T. R. R. Stebbing. Berlin (R. Friedländer & S.), 1906, (xxxix + 806). 26 cm. 36 M.

Schuster, Wilhelm. Deutsche—insbesondere hessische—Tiernamen. Zool. Beob., Frankfurt a. M., 47, 1906, (173-176, 216-218).

Schütte, H. v. Focke, Wilhelm Olbers. (N-9720 q)

Schwalbe, Ernst. 1. Die Morphologie der Missbildungen des Menschen und der Tiere. Ein Lehrbuch für Morphologen, Physiologen, praktische Aerzte und Studierende. Tl 1: Allgemeine Missbildungslehre (Teratologie), Eine Einführung in das Studium der abnormen Entwicklung. Jena (G. Fischer), 1906, (xvi + 230, 1 Taf.). 26 cm.

Schwalbe, E. 2. Gesamtregister zu den Jahresberichten der Anatomie und Entwicklungsgeschichte, hrsg. v. G. Schwalbe. Jg 1892-1901. Bearb. v. Ernst Schwalbe. Tl 2: Sachregister (mit einem Verweisregister). Jena (G. Fischer), 1906, (iv + 816). 24 cm.

Schwalbe, G. 1. Jahresberichte über die Fortschritte der Anatomie und Entwicklungsgeschichte. In Verbindung mit Karl von Bardeleben [u. A.] . . hrsg. v. G[ustav] Schwalbe. (N.F.) Bd. 10: Literatur 1904. Abt. 3, Tl 1-2. Jena (G. Fischer), 1905-06, (1096 + xviii). 24 cm. 30 M. 24 M.

Schwalbe, G. [and others]. Jahresberichte über die Fortschritte der Anatomie und Entwicklungsgeschichte. 11. Literatur, 1905. Abt. 3, Tl 1. Jena (G. Fischer), 1906, (634).

Scott, John W. Morphology of the parthenogenetic development of *Amphitrite*. J. exp. Zool. Baltimore, Md., 3, 1906, (49-98, 4 pls.).

Scourfield, D. J. Mendelism and microscopy. London, J. Quek. Microsc. Cl., ser. 2, 9, 1906, (395-422).

Seely, H[enry] M[artyn]. Beekmantown and Chazy formations in the Champlain valley, contributions to their geology and paleontology. Vermont, Rep. Geol., Montpelier, 5, 1906, (174-187, pl.).

Sellnik. Die Bewohner der Moorsrasen Ostpreussens. Königsberg, Schr. physik. Ges., 47, 1906, (58-63).

Senna, Angelo. Raccolte planctoniche fatte dalla R. Nave Liguria nel viaggio di circumnavigazione 1903-05. I. 1. Relazione preliminare ed elenco delle Stazioni. Firenze, Pubblic. Ist. st. sup., 1906, (1-49, 2 tav.).

Seulen, A. Albinismus (Leucismus) und Melanismus. Natur u. Offenb., Münster, 52, 1906, 244-246).

Sharp, David [and others]. The Zoological Record. Volume the Forty-second. Being records of Zoological Literature relating chiefly to the year 1905. London, Zoological Society, 1906. 8vo. (20 sections with separate paginations.)

Shearer, Cresswell. On the existence of cell communications between blastomeres. London, Proc. R. Soc., B., **77**, 1906, (498-504).

Sherborn, C. Davis and **Woodward**, B. B. **1**. On the dates of publication of the natural history portions of the *Encyclopédie méthodique*. Ann. Mag. Nat. Hist., London, ser. **7**, **17**, 1906, (577-582).

Sherborn, C. D. and **Woodward**, B. B. **2**. Notes on the dates of publication of the natural history portions of some French Voyages—"Voyage autour du monde. . . sur la Coquille pendant . . . 1822-25. . . par L. J. Du-perry." Ann. Mag. Nat. Hist., London, ser. **7**, **17**, 1906, (335-336).

Shimer, Hervey Woodburn. Upper Siluric and lower Devonic faunas of Trilobite mountain, Orange county, New York. Albany, N.Y., St. Educ. Dept., Muss. Bull., **80**, 1905, (173-269, pl.).

Sieniuradzki, Jos[ef] von. Die paläozoischen Gebilde Podoliens. I. Stratigraphischer Theil. Wien, Beitr. Pal. Geol. OestUng., **19**, 1906, (173-212).

[**Šimkevič**, V. M.] ШИМКЕВИЧЪ, В. М. Къ теоріи мутаціи. [Zur Mutationslehre.] Vorl. Mitth. St. Peterburg, Trav. Soc. nat., **35**, 4, 1906, (28-62); deutsches Rés., (63-66).

Simon, Max *vide* Galenus.

Simroth, [Heinrich]. Bemerkungen über die Tierwelt Sardiniens. Verh. D. zool. Ges., Leipzig, **16**, 1906, (160-195).

Sjövall, Einar. **1**. Ein Versuch, das Binnennetz von Golgi-Kopsch bei der Spermato- und Orogenese zu homologisieren. Anat. Anz., Jena, **28**, 1906, (561-579).

Sjövall, E. **2**. Ueber Spinalganglienzellen und Markscheiden. Zugleich ein Versuch die Wirkungsweise der Osmiunsäure zu analysieren. Anat. Hefte, Wiesbaden, Abt. 1, **30**, 1906, (259-391, 5 [3] Taf.).

Skoda, Carl. Ueber eine kombinierte, plastische Leimmasse und ihre Anwendung bei der Verfertigung von Knochenpräparaten. Anat. Anz., Jena, **29**, 1906, (380-382).

[**Skorikov**, A[leksandr Stepanovič]]. СКОРИКОВЪ, А. † М. Н. Михайловскіи. [† M. N. Michailovskij.] St. Peterburg, Ann. Mus. Zool. Ac. Sc., **10**, 1905, [1906], (i-iv Portr.).

Slocum, Arthur Ware. A list of Devonian fossils collected in western New York, with notes on their stratigraphic distribution. Chicago, Ill., Pub. Field Columb. Mus. Geol. Ser. **2**, 1906, (17. + 257-265, pl.).

Smith, Essie Alma. Development and variation of *Pentremites conoides* [and the dwarfing of the fauna of the Salem limestone]. [In] Cumings, E. R. and others. Fauna of the Salem limestone. Indiana, Rep. Dept. Geol. Nat. Res., Indianapolis **30**, (1905), 1906, (1219-1242). [0223].

Smith, W. D. Preliminary geological reconnaissance of the Lobo mountains, Batangas province. Philippine J. Sci., Manila, P.I., **1**, 1906, (617-635, pl.).

Soós, Lajos. A koresok formálódásának törvénye. [Über das Gesetz der Bastardbildungen.] Pótf. Term. Közl., Budapest, **38**, 1906, (103-112).

Soule, Caroline G. *vide* Mayer, A. G.

Soyer, Charles. Sur un type d'ovocytes ramifiés et à forme hydroïde. Paris, C.-R. soc. biol., **61**, 1906, (246-248), et Réunion biologique de Nancy, **1906**, (46-48).

Spee, F[erdinand] Graf von. Walther Flemming†. Anat. Anz., Jena, **28**, 1906, (41-59, Portr.).

Speiser, P[aul]. **1**. Tiergeographie, Faunistik und Heimatkunde. Ent. Jahrb., Leipzig, **15**, 1906, (60-70).

Speiser, [P.]. **2**. Beziehungen faunistischer Untersuchungen zur Tiergeographie und Erdgeschichte. Königsberg, Schr. physik. Ges., **46**, (1905), 1906, (150-156).

Speiser, [P.]. **3**. Ueber eine Sammelreise im Kreise Oletzko. Königsberg, Schr. physik. Ges., **47**, 1906, (71-78).

Spemann, H[ans]. Ueber eine neue Methode der embryonalen Transplan-

tation. Verh. D. zool. Ges., Leipzig, **16**, 1906, (195-202).

Spillman, W[illiam] J[asper]. 1. Mendel's law in relation to animal breeding. American Breeders' Association. Proceedings, Washington, D.C., **1**, 1905, (171-177).

Spillman, W. J. 2. A mendelian character in cattle. Science, New York, N.Y., **23**, 1906, (549-551).

Spillman, W. J. 3. Inheritance of color coat in swine. Science, New York, N.Y., **24**, 1906, (441-443).

[**Ssamsonow, N.**] Самсоновъ, Н. Предварительный списокъ животныхъ организмовъ, собранныхъ въ озерѣ Садьервъ Лиф. г. Изъ: Матеріалы по изслѣдованію озеръ Лифляндской губерніи. [Vorläufiges Verzeichnis der im Sadjerw-See im Gouv. Livland gesammelten Tierorganismen. In: Materialien zur Erforschung der Seen Livlands.] Jurjev, Sitzb. Naturf. Ges., **14**, 2, 1905, [1906], (47-56).

Staples-Browne, Richard. Note on heredity in pigeons. London, Proc. Zool. Soc., 1905, **2**, (550-558).

Steinitz, Ernest. Über den Einfluss der Elimination der embryonalen Augenblasen auf die Entwicklung des Gesamtorganismus beim Frosche. Arch. Entwickl. Leipzig, **20**, 1906, (537-576), pls. xxi and xxii.

Stejneger, Leonhard. 1. Isolation versus natural selection. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (265-270).

Stejneger, L. 2. C. S. Rafinesque and evolution. Science, New York, N.Y., **23**, 1906, (785).

Stempell, W[alter]. Ueber die Verwendung von microphotographischen Lichtbildern beim zoologischen und anatomischen Unterricht. Verh. D. zool. Ges., Leipzig, **16**, 1906, (83-88).

Stephan, P. 1. Sur le degré de développement des organes génitaux des hybrides. Paris, C.-R. soc. biol., **60**, 1906, (598-599); et Réunion biologique de Marseille, **1906**, (14-15).

Stephan, P. 2. A propos de quelques effets produits par l'hybridation sur la structure des organes génitaux. Paris, C.-R. Ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (822-824).

Stephan, P. 3. Modifications du syncytium nourricier dans le tube séminifère des hybrides. Paris, C.-R. soc. biol., **60**, 1906, (892-893).

Stevens, N[ettie] M[aria]. 1. Studies on the germ cells of aphids. [Reprint.] Bryn Mawr, Pa., Bryn Mawr Coll. Monogr., (Reprint Ser.), **6**, 1906, (3-28).

Stevens, N. M. 2. A study of the germ cells of *Aphis rosae* and *Aphis oenotherae*. [Reprint.] Bryn Mawr, Pa., Bryn Mawr Coll. Monogr., (Reprint Ser.), **6**, 1906, (313-333).

Stevens, N. M. 3. Studies in spermatogenesis. Part 2. A comparative study of the heterochromosomes in certain species of Coleoptera, Hemiptera and Lepidoptera, with especial reference to sex determination. Washington (Carnegie Institution), [Publication No. 36, Part 2], 1906, (11. + 33-74), pl.

Stevens, N. M. 3a. Studies in spermatogenesis with especial reference to the "accessory chromosome." [Reprint.] Bryn Mawr, Pa., Bryn Mawr Coll. Monogr., (Reprint Ser.), **6**, 1906, (1-32, with pl., as original).

(**Stevens, N. M. 4.** A study of the germ cells of *Aphis rosae* and *Aphis oenotherae*. J. Exp. Zool., Baltimore, Md., **2**, 1905, (313-333) 4 pl.)

Stevens, N. M. vide Morgan, T. H.

(**Stevens, N. M. and Boring, A. M. 1.** Regeneration in *Polychoerus caudatus*. J. Exp. Zool., Baltimore, Md., **2**, 1905, (335-346, with text fig., pl.))

Stevens, N. M. and Boring, A. M. 2. Regeneration in *Polychoerus caudatus*. [Reprint.] Bryn Mawr, Pa., Bryn Mawr Coll. Monogr., (Reprint Ser.), **6**, 1906, (335-346, pl.).

Stieda, L. VII. Bericht über die anatomische, histologische u. embryologische Literatur Russlands, 1904-1906. Anat. Hefte, Wiesbaden, ii. abth. **15**, 1906, (899-999).

Stieler, R. F. Darwinismus und Lamarckismus. [Krit. Referat über A. Pauly.] Polit.-anthr. Rev., Leipzig, **4**, 1906, (666-675).

Stiles, Ch. Wardell. 1. A plan to ensure the designation of generic types. An open letter to systematic zoologists. Science, New York, N.Y., **23**, 1906, (700).

Stiles, C. W. 2. A plan to ensure the designation of generic types. An open letter to systematic zoologists. *Zool. Anz., Leipzig*, **30**, 1906, (459-461).

Stiles, Ch[arles] Wardell and Hassall, Albert. 1. Index-catalogue of medical and veterinary zoology. Part 14. "[Authors: L to Leger.]" Washington, D.C., Bull. U. S. Dept. Agric., Bur. Anim. Ind., No. **39**, 1906, (951-1044).

Stiles, C. W. and Hassall, A. 2. Index-catalogue of medical and veterinary zoology. Part 15. "[Authors: Legg to van der Linden.]" Washington, D.C., Bull. U. S. Dept. Agric., Bur. Anim. Ind., No. **39**, 1906.

Stiles, C. W. and Hassall, A. 3. Index-catalogue of medical and veterinary zoology. Part 16. "[Authors: von Linden to Lyutkevich.]" Washington, D.C., Bull. U. S. Dept. Agric., Bur. Anim. Ind., No. **39**, 1906, (1117-1208).

Stirling, William. Rudolph Albert von Kölliker, M.D., Professor of anatomy in the University of Würzburg. [Reprint from Brit Med. J., London.] Washington, D.C., Smithsonian Inst., Rep., **1905**, 1906, (557-562), portr.

Stöhr, Philipp. Über die Natur der Thymus-Elemente. *Anat. Hefte, Wiesbaden*, I Abth., **31**, 1906, (409-457), 8 pls.

Stoeltzner, Helene. Der Einfluss der Fixierung auf das Volumen der Organe. *Zs. wiss. Mikrosk., Leipzig*, **23**, 1906, (14-25).

Štolc, Antonín. Plasmodiogenie, eine Vermehrungsart der niedersten Protozoen. *Arch. EntwMech., Leipzig*, **21**, 1906, (111-125).

Stone, Witmer. 1. The relative merits of the "elimination" and "first species" method in fixing the types of genera, with special reference to ornithology. *Science, New York, N.Y.*, **24**, 1906, (560-564).

Stone, W. 2. Some unpublished letters of Alexander Wilson and John Abbot. *Auk, Cambridge, Mass., N. Ser.*, **23**, 1906, (361-368).

[**St. Petersburg Bureau für internationale Bibliographie.**] С.-Петербургское Бюро по международной библиографии. Русская Библиография по Естествознанию и Математикѣ.

Томъ II, 1901-1902. [Russische Bibliographie für Naturgeschichte und Mathematik II Band, 1901-1902.] St. Petersburg [K. Akad. d. Wissensch.], 1906, (vi + 246). 22 cm..

Streeter, George L[inius]. Some experiments on the developing ear vesicle of the tadpole with relation to equilibration. *J. Exp. Zool., Baltimore, Md.*, **3**, 1905, (543-558).

Sykes, Mark L. Animal coloration. *Manchester, Rep. Microsc. Soc.*, **1905**, (64-75).

(**Szczawinska, Wanda.** Contribution à l'étude des cytotoxines chez les Invertébrés. *Arch. parasit., Paris*, **9**, 1905, (546-563).)

Szilády, Zoltán. Középiskolai rovargyűj teményterv. [Insektensammlung für Mittelschulen.] *Rovart. L., Budapest*, **13**, 1906, (95-101, 114-119).

[**Tarnani, I.**] Тарнани, И. Уродства Животныхъ. [Monstruosités chez les animaux.] *Novo-Aleksandrija, Zap. Inst. sel'sk. choz.*, **18**, 1906, 1, (106-134).

Taschenberg, O[tto]. 1. Rudolf Albert von Koelliker. Ein Nachruf. *Halle, Leopoldina*, **42**, 1906, (75-82, 87-91, 103-116).

Taschenberg, O. 2. Otto Goldfuss†. Ein Nachruf. *Frankfurt a. M., NachrBl. D. malakozool. Ges.*, **38**, 1906, (207-218).

Teichmann, Ernst. Der gegenwärtige Stand der Vererbungsfrage. Sammelreferat. *Natw. Wochenschr., Jena*, **21**, 1906, (417-430).

Tennent, D[avid] H[ill] and Hogue, M. J. Studies on the development of the starfish egg. *J. Exp. Zool., Baltimore, Md.*, **3**, 1906, (517-543 + 4 l., 5 pls.).

Thallwitz, J. vide Schorler, B.

Thesing, C[urt]. Der Bau der Geschlechtszellen. *Natw. Wochenschr., Jena*, **21**, 1906, (385-396).

Thiébaud, Maurice. Sur la faune invertébrée du lac de St. Blaise. *Zool. Anz., Leipzig*, **29**, 1906, (795-801).

Thiébaud, Maurice et Favre, Jules. Sur la faune invertébrée des mares de Pouillere. *Zool. Anz., Leipzig*, **30**, 1906, (155-163).

- Thiselton-Dyer**, W. T. [and others]. The wild fauna and flora of the Royal Botanic Gardens, Kew. Kew Bull., London, add. ser., **5**, 1906, (vii + 223).
- Thomson**, Geo. M. The Portobello Marine Fish-hatchery and Biological Station. Wellington, Trans. N. Zeal. Inst., **38**, 1906, (529-558).
- Thomson**, J. A. Outlines of zoology. Fourth edition, revised and enlarged. Edinburgh, 1906, (xix + 856).
- Thor**, Sig. Billeder og beskrivelser af almindelige dyr. Til brug ved den første undervisning i zoologi. 2. opl. [Abbildungen und Beschreibungen der gewöhnlichen Thiere. Für den ersten Unterricht in der Zoologie. 2. Aufl.] Kristiania (Alb. Cammermeyer), 1906, (56). 21 cm. 0.55 Kr.
- Todaro**, Francesco. Carlo Gegenbaur. Commemorazione. Roma, Ric. Lab. anat. norm., **10**, 1904, (i-xii).
- Tornier**, Gustav. 1. Kampf der Gewebe im Regenerat bei Begünstigung der Hautregeneration. Arch. Entw.-Mech., Leipzig, **22**, 1906, (348-369).
- Tornier**, G. 2. Experimentelles und Kritisches über tierische Regeneration. Berlin, SitzBer. Ges. natf. Freunde, **1906**, (50-66).
- Tower**, William Lawrence. 1. An investigation of evolution in chrysomelid beetles of the genus *Leptinotarsa*. Papers of the Station for Experimental Evolution at Cold Spring Harbour, New York, No. **4**. Washington, D.C. (Carnegie Institution), [Publication No. **48**], 1906, (x + 320 + 11., with text fig., maps, pl., partly col.).
- Tower**, W. L. 2. Experimental investigations of the production and preservation of new character races and species in insects. [Abstract of report on grant No. 251.] Washington, D.C., Carnegie Inst., Year Book No. **4**, **1905**, 1906, (286-288).
- Triepel**, Hermann. Die anatomischen Namen, ihre Ableitung und Aussprache. Wiesbaden (J. F. Bergmann), 1906, (vii + 81). 21 cm. 2 M.
- Trouessart**. La distribution géographique des animaux vivants et fossiles. Naturaliste, Paris, **28**, 1906, (65-66, 78-79, 90-92, 104-105, 114-117, 126-129, 137-138, 151-153, 162-164, 176-178, 188-190, 202-203, 210-212, 222-224, 235-238, 249-251, 259-262, 272-274, 286-287).
- Tur**, Jan. 1. Le développement des polygénèses et la théorie de la concrescence. Paris, C.-R. Acad. sci., **143**, 1906, (701-703).
- Tur**, J. 2. Teorya mutacyi w zoologii. [La théorie des mutations en Zoologie.] Wszechświat, Warszawa, **25**, 1906, (225-229, 249-253).
- [**Tur**, Th.] Туръ, О. Филиппъ Василевъ и Овсианниковъ.† [Ph. W. Owsiannikow†.] St. Petersburg, Trav. Soc. nat., **37**, 1906, (215-221).
- Vadász**, M. Elemér. Budapest-Rákos felsőmediterránkorú faunája. [Über die obermediterrane Fauna von Budapest-Rákos.] Földt. Közl., Budapest, **36**, 1906, (256-283, 323-351, Taf. x).
- Van der Stricht**, O. 1. La structure de l'œuf de Chauve-Souris (*Vespertilio noctula*). C.-R. ass. anat., 7^e session, (Genève), **1905**, Nancy, 1906, (6-12).
- Van der Stricht**, O. 2. Les mitoses de maturation de l'œuf de la Chauve-Souris (*V. noctula*). C.-R. ass. anat., 8^e session (Bordeaux), Nancy, **1906**, (51-55).
- [**Vasiljev**, E. M.] Василевъ, Е. М. Списокъ животныхъ вредителей свекловича въ пределахъ Евр. Россіи и З. Европы. [Verzeichnis der Thiere, welche den Runkelrüben im Europäischen Russland und in Westeuropa Schaden zufügen.] Věst. sacharn. promysl., Kiev, **7**, 1906, 1. (479-482, 517-524, 554-564, 606-616, 722-728, 768-776, 808-814, 891-897, 932-938).
- [**Vasinevskij**, Evg.] Васиневскій, Евъ. Василий Федоровичъ Ошанинъ. [Vasilij Fedorovič Ošanin.] Turkest. Věd., Taškent, **37**, 1906, (1138).
- Vastarini-Cresi**, G. Contributo alla tecnica delle sezioni microscopiche di oggetti inclusi in paraffina. Mon. zool. ital., Firenze, **17**, 1906, (162-166).
- Vaughan**, T. Wayland. The work of Hugo de Vries and its importance in the study of problems of evolution. Science, New York, N.Y., **23**, 1906, (681-691).
- Veatch**, A[rthur] C[hifford]. Age and type localities of the supposed Jurassic fossils collected north of Fort Bridger, Wyoming, by Frémont in 1843. Amer. J. Sci., New Haven, Conn., Ser. 4, **21**, 1905, (457-460).

Vecchi, De, Bindo. La fotossilina sciolta in alcool metilico come mezzo di inclusione. Nota di tecnica istologica. Mon. zool. ital., Firenze, **17**, 1906, (248-251).

Velden, F[riedrich] von den. 1. Die menschlichen Reflexerscheinungen im Vergleich zu den tierischen. Fortschr. Med., Leipzig, **24**, 1906, (69-74).

Velden, F. von den. 2. Anfänge von Recht und Rang bei den höheren Tieren. Polit.-anthr. Rev., Leipzig, **5**, 1906, (313-315).

(**Verney**, Lorenzo. Les caractères nouveaux et le Darwinisme. Naturaliste, Paris, **27**, 1905, (182-184).)

Verrill, Addison E[mory]. The Bermuda islands. Part 4. Geology [concluded] and paleontology. Part 5. An account of the coral reefs. New Haven, Conn., Trans. Acad. Arts Sci., **12**, 1906, (141-300).

Viguier, C. Nouvel appareil pour la recherche et la récolte rapide du plankton. Arch. zool., Paris, (sér. 4), **5**, 1906, Notes et revue, (xlix-lviii).

Volz, W. Zoologische Ergebnisse einer Reise in Ost-Asien und auf den Sandwich-Inseln. [Hrsg.] Von Walter Volz. (Abdr. aus d. Zool. Jahrbüchern . . . Giessen, Syst. Bd 21-24, sowie Anat. Bd 22 u. 23.) Jena (G. Fischer), 1906, (x + 370), 24 Taf. u. 1 Karte. 24 cm.

Vörner, Hans. Beitrag zur Kenntnis des Pigmentes. Derm. Zs., Berlin, **12**, 1905, (379-387).

Walcott, Charles D[oolittle]. Cambrian faunas of China. [Preliminary paper No. 2.] Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, 1906, (563-595).

Waldeyer, W[ilhelm]. Albert v. Koelliker zum Gedächtnis. Anat. Anz., Jena, **28**, 1906, (539-552), 1 Portr.

Walker, C. E. and **Embleton**, Alice L. On the origin of the sertoli or foot cells of the testis. London, Proc. R. Soc., B **78**, 1906, (50-52), pls. v and vi.

Walker, C. E. *vide* Moore, J. E. S.

Wandolleck, Benno. Die Aufgabe der Museen. Zool. Anz., Leipzig, **30**, 1906, (638-653).

Warren, Ernest. Catalogues of some of the collections on exhibition at the Natal Government Museum. Rep. Natal Mus. Pietermaritzburg, **1**, 1906, (39-185).

Warren, John. Referat über die anatomische Literatur Amerikas für die Jahre 1902, 1903, 1904. Anat. Hefte, Wiesbaden, ii, abth., **15**, 1906, (663-898).

Wasmann, Eric. 1. Comparative studies in the psychology of ants and of higher animals. Authorized English version of the 2d German ed. enl. and rev. by the author. St. Louis, Mo. and Freiburg, Baden, (B. Herder), 1905, (x + 200, with text fig., pl.). 20 cm.

Wasmann, E. 2. Der biologische Unterricht an den höheren Schulen. Köln (J. P. Bachem), 1906, (30). 25 cm. 1,20 M.

Weber, A. L'origine du feuillet moyen dans un blastoderme de Canard sans embryon. Arch. zool., Paris, (sér. 4), **5**, 1906, Notes et revues, (lxxxi-xc).

Wedekind, W. 1. Generationswechsel, Metamorphose und direkte Entwicklung. Zool. Anz., Leipzig, **29**, 1906, (790-795).

Wedekind, W. 2. Alternation of generations, metamorphosis and direct development. Ann. Mag. Nat. Hist., London, ser. 7, **18**, 1906, (38-44). Translation by E. E. Austen from Zool. Anz.

Weismann, August. Semons „Mneme“ und die „Vererbung erworbener Eigenschaften.“ Arch. Rassenbiol., Berlin, **3**, 1906, (1-27).

Weldon, Walter Frank Raphael. 1860-1906. (Anonymous). Biometrika, London, **5**, 1906, (1-52), 5 pls.

Weller, Stuart. Kinderhook faunal studies. 4. The fauna of the Glen park limestone. St. Louis, Mo., Trans. Acad. Sci., **16**, 1906, (435-471), pl.

Weltner, W[ilhelm]. Franz Hilgen-dorf. 5. Dez. 1839 bis 5. Juli 1904. Ein Nachruf. Arch. Natg., Berlin, **72**, Bd I, 1906, (i-xii), Portr.

Werner, F[rantz]. 1. Tierschutz, Tierliebhaberei und Tierkunde. Zool. Beob., Frankfurt a. M., **47**, 1906, (257-262).

Werner, F. 2. Zoologische Praeparate für Schulzwecke. Zs. LehrmWes., Wien, **1**, 1905, (181-182).

Wesenberg-Lund, C. 1. Ueber Süßwasserplankton. Uebers. v. O. Gerloff. Prometheus, Berlin, **17**, 1906, (785-790, 801-804, 817-820).

Wesenberg-Lund, C. 2. Om Naturforholdene i skotske og danske Søer, en sammenlignende Studie. [On the nature of Scotch and Danish lakes, a comparative study.] Kjöbenhavn, Geogr. Tids., **1905-1906**, (1-12).

Whiteaves, J. F. Bibliography of Canadian Zoology for 1904. Ottawa Trans. R. Soc. Can., 2 ser., **11**, 1906, (57-63).

Whitfield, R[obert] P[arr]. Notes on some Jurassic fossils from Franz Josef Land, brought by a member of the Ziegler exploring expedition. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, 1906, (131-134, pl.).

Whitfield, R. P. and Hovey, E[dmund] O[tis]. Remarks on and descriptions of Jurassic fossils of the Black Hills. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, 1906, (389-402 + 21 l., pl.).

Wichmann, Arthur. Nova Guinea. Résultats de l'expédition scientifique néerlandaise à la Nouvelle-Guinée en 1903 sous les auspices de Arthur Wichmann chef de l'expédition. Vol. **5**. Zoologie, livraison 1. Leiden, 1906, 4to., (1-200), 10 pls.

Wijhe, J. W. van. Die Homologisirung des Mundes des *Amphioxus* und die primitive Leibesgliederung der Wirbeltiere. Petrus Camper, Bijdr. Anat., Haarlem, **4**, 1906, (61-102, 1 Taf.).

Wilson, E[dmund] B[eecher]. 1. Mendelian inheritance and the purity of the gametes. Science, New York, N.Y., N. Ser., **23**, 1906, (112-113).

Wilson, E. B. 2. A new theory of sex-production. [Review of paper by R. Hertwig.] Science, New York, N.Y., N. Ser., **23**, 1906, (189-191).

Wilson, E. B. 3. Studies on chromosomes. 3. The sexual differences of the chromosome-groups in Hemiptera, with some considerations on the determination and inheritance of sex. J. Exp. Zool., Baltimore, Md., **3**, 1906, (1-40).

(Wilson, E. B. 4. Experimental studies on germinal localization. I. The germ-regions in the egg of *Dentalium*. J. Exp. Zool., Baltimore, Md., **1**, 1904, (1-72).)

Wilson, E. B. 5. Experimental studies in germinal localization. II. Experiments on the cleavage-mosaic in *Patella* and *Dentalium*. J. Exp. Zool., Baltimore, Md., **1**, 1904, (197-268).

(Wilson, E. B. 6. Studies on chromosomes. I. The behavior of the idiochromosomes in Hemiptera. J. Exp. Zool., Baltimore, Md., **2**, 1905, (371-405).)

(Wilson, E. B. 7. Studies on chromosomes. II. The paired microchromosomes, idiochromosomes and heterotropic chromosomes in Hemiptera. J. Exp. Zool., Baltimore, Md., **2**, 1905, (507-545).)

Wimmer, Josef. Mechanik der Entwicklung der tierischen Lebewesen. Verh. Ges. D. Natf., Leipzig, **77**, (1905), I, 1906, (107-138).

Winkler, Hubert. Die Kokospalme als Wohnort für Tiere. Aus d. Natur. Stuttgart, **2**, 1906, (24-28).

Winter, F. W. Fritz Schaudinn. Sein Leben und Wirken. Zool. Anz., Leipzig, **30**, 1906, (825-846, mit Porträt).

Wintrebert, P. 1. Sur l'accomplissement régulier des fonctions de nutrition, des processus d'ontogenèse, de régénération et de métamorphose, chez des larves d'*Alytes*, en l'absence d'une grande étendue de la moelle. Paris, C.-R. soc. biol., **60**, 1906, (70-72).

Wintrebert, P. 2. La métamorphose de *Salamandra maculosa* Laur., en dehors de la moelle et des ganglions spinaux. Etude histologique. Paris, C.-R. soc. biol., **60**, 1906, (73-74).

Wintrebert, P. 3. Sur l'indépendance de la métamorphose vis-à-vis du système nerveux chez les Batraciens. Paris, C.-R. Acad. sci., **141**, 1905, (1262-1265).

Witte, H[ern]fred. *Stratiotes aloides* L. funnen i Sveriges postglaciala aflagrinar. [*Stratiotes aloides* L. found in the post-glacial deposits of Sweden.] Stockholm, Geol. För. Förh., **27**, 1905, (432-451).

Wolcott, R[obert] H[enry]. Biological conditions in Nebraska. Lincoln, Stud. Zool. Lab. Univ. Nebr., No. 68, 1906, (23-34, pl.).

Wolff, Fritz Schaudinn†. Natw. Wochenschr., Jena, 21, 1906, (459-460).

Woodward, B. B. *vide* Sherborn, C. Davies.

Woodward, A. Smith. The relations of palaeontology to biology. [Extract from Rep. Congr. Arts and Sciences St. Louis.] Ann. Mag. Nat. Hist., London, ser. 7, 18, 1906, (312-318).

Wüst, Ewald. Otto Goldfuss. Nachruf. Zs. Natw., Stuttgart, 78, 1906, (160-165), Portr.

Wundt, Wilhelm. Vorlesungen über die Menschen- und Tierseele. 4. umgearb. Aufl. Hamburg u. Leipzig (L. Voss), 1906, (xlv + 547). 24 cm. 12 M.

Yates, Lorenzo Gordin. Prehistoric California. Los Angeles, Bull. So. Cal. Acad. Sci., 3, 1904, (6-10, pl.).

Yerkes, Ada Watterson. 2. Modifiability of behavior in *Hydroides dianthus*, 5. J. Comp. Neur. Psych., Granville, Ohio, 16, 1906, (441-449).

Yerkes, Robert M[earns]. 1. George Bohn's studies in animal behavior. J. Comp. Neur. Psych., Granville, Ohio, 16, 1906, (231-238).

Yerkes, R. M. 3. Concerning the behavior of *Gonionemus*. J. Comp. Neur. Psych., Granville, Ohio, 16, 1906, (457-463).

Yerkes, R. M. 4. The mutual relations of stimuli in the frog *Rana clamata* Daudin. Harvard Psych. Stud., Boston, Mass., 2, 1906, (545-574).

Yerkes, R. M. 5. The temporal relations of neural processes. Harvard Psych. Stud., Boston, Mass., 2, 1906, (575-580).

Zacharias, Otto. 1. Planktonforschung und Darwinismus. Zool. Anz., Leipzig, 30, 1906, (381-388).

Zacharias, O. 2. Biologische Laboratorien an Binnenseen und Teichen. Zool. Anz., Leipzig, 30, 1906, (488-494).

Zacharias, O. 3. Das Plankton als Gegenstand eines zeitgemässen biolo-

gischen Schulunterrichts. Arch. Hydrobiol., Stuttgart, 1, 1906, (247-344).

Zacharias, O. 4. Ueber Periodizität, Variation und Verbreitung verschiedener Planktonwesen in südlichen Meeren. Arch. Hydrobiol., Stuttgart, 1, 1906, (498-575).

Zacharias, O. 5. Zur Frage des biologischen Schulunterrichts. Arch. Hydrobiol., Stuttgart, 2, 1906, (63-87).

Zacharias, O. 6. Ueber die mikroskopische Fauna und Flora eines im Freien stehenden Taufbeckens. Arch. Hydrobiol., Stuttgart, 2, 1906, (235-238).

Zacharias, O. 7. Osservazioni limnologiche su di alcuni laghi italiani. Acquicoltura lombarda, Milano, 7, 1905, (68-71, 88-91, 113-119, 209-219).

Zacharias, O. 8. Un laboratorio galleggiante per la biologia marina. Rivista mensile di Pesca, Milano, 8, 1906, (145).

Zandt Cortelyou, John van. Die altenglischen Namen der Insekten, Spinnen- und Krustentiere. (Anglistische Forschungen, hrsg. v. J. Hoops, H. 19.) Heidelberg (C. Winter), 1906, (vii + 124). 23 cm. 3,60 M.

Zappold, L. Wodurch erzielen wir bei Menschen und Tieren willkürlich männliches und weibliches Geschlecht? Einleuchtende u. unwiderlegbare Mitteilungen. München (Seitz & Schauer), [1906], (47). 25 cm. 3 M.

Zederbauer, Emmerich *vide* Brehm, V.

(Zeleny, Charles. 1. Experiments on the localisation of developmental factors in the nemertine egg. J. Exp. Zool. Baltimore, Md., 1, 1904, (293-329).)

(Zeleny, C. 2. Compensatory regulation. J. Exp. Zool., Baltimore, Md., 2, 1905, (1-102).)

(Zeleny, C. 3. The relation of the degree of injury to the rate of regeneration. [Contribution from the Zoological Laboratory of Indiana University. No. 68]. J. Exp. Zool., Baltimore, Md., 2, 1905, (347-369).)

Zeleny, C. 4. The regeneration of a double chela in the fiddler crab (*Gelasimus pugilator*) in place of a normal single one. [Contributions from the Zoological Laboratory of Indiana Uni-

versity, No. 67.] Biol. Bull., Woods Holl, Mass., **9**, 1905, (152-155).

[Zograff, N.] Зорграфъ, Н. Естество- и историческое мировоззрѣніе. [Naturgeschichtliche Weltanschauung] Jestestv. i geogr., Moskva, **11**, 1906, 5, (1-19).

Zell, Th. Streifzüge durch die Tierwelt. Stuttgart (Kosmos), [1906], (96). 21 cm. 1 M.

Zschokke, F. **1**. Die Tiefenfauna des Vierwaldstätter-Sees. Luzern, Verh. schweiz. natf. Ges. **88**, 1906, (122-143).

Zschokke, F. **2**. Uebersicht über die Tiefenfauna des Vierwaldstättersees. Arch. Hydrobiol., Stuttgart, **2**, 1906, (1-8).

Zuntz, N[athan]. Die Tiere im Dienste der Wissenschaft und der Heilkunde. [In] Der Mensch u. die Erde, hrsg. v. H. Kraemer, Bd 2, Berlin (Bong & Co.), [1906], (297-330).

Zweiger, Herbert. **1**. Die Spermatogenese von *Forficula auricularia*. Zool. Anz., Leipzig, **30**, 1906, (220-226).

Zweiger, H. **2**. Die Spermatogenese von *Forficula auricularia* L. Diss. Jena (G. Fischer), 1906, (31). 4 Taf. 22 cm.

Zykoff, W[ladimir]. Das Plankton einiger Gewässer Nordrusslands. Zool. Anz., Leipzig, **30**, 1906, (163-168).

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Schlumberger, Ch.; notice necrologique; Paris, Bul. soc. zool. **30**, 1907 (130-133) portrait.

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Weldon, Walter Frank Raphael; *Biometrika* **5** (1-52) 5 plates.

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Helder, Verhandeligen uit het Rijksinstituut voor het onderzoek der zee, 4^e. 1906. [First number.]

Bulletin du Musée océanographique de Monaco. No. 1, 1904.

Verslag van den staat der Nederlandsche zeevisscherijen over 1905. [Bericht über den Stand der niederländischen Seefischerei im Jahre 1905.] Versl. Staat. Ned. zeevissch., **1905**, 1906, (506).

Conseil permanent international pour l'exploration de la mer. (Ser. A: Rapports et Proces-Verbaux des Reunions) **3**, Rapport général pour 1902-1904; ride Conseil. . . .

Report of the Director of the Zoological park; **Hornaday**.

Pêcheries de la côte occidentale d'Afrique; **Gruvel**.

Fisheries, British; **Johnstone**.

Report of the Commissioner of fisheries, 1905; **Bowers**.

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Bericht über die Thätigkeit der Zoologischen Station in Villa-Franca während der Jahre 1903-1904. (Russ.); **Ko-rotnév**.

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Praktische Tierzucht und Züchtungsbiologie; **Müller**, Robert.

Elementary text-book treating of the structure, life history and relations of animals; **Davison**.

First course in zoology; a text-book for secondary schools, normal schools and colleges; **Galloway**.

Grundriss der Zoologie für Forstleute. Ergänzungsband zu Lorey's Handbuch der Forstwissenschaft; **Jacobi**.

Zoologie pratique; **Jammes**.

A text-book in general zoology; **Linville** and **Kelly**.

Anatomische und physiologische Arbeiten. Im Auftrage der Familie hrsg. v. Rob. Tigerstedt; **Lovén**.

Éléments de Zoologie à l'usage des classes inférieures des collèges, en collaboration avec M. T. Wiśniowski. 11 Edition. (Polish); **Nusbaum**.

Text-book, Vetebrata; **Pratt**, H. S.

Outlines of Zoology; **Thomson**.

Bibliography. 0032

(Revue annuelle des thèses de Zoologie, 1905; **Pérez**, **1**.)

Revue annuelle des thèses de Zoologie, 1906; **Pérez**, 2.

Revue annuelle de Zoologie; **Caullery** & **Mesnil**.

Zoological Record for 1905; **Sharp** and others.

Record of Zoological literature for 1903; **International Catalogue**.

Record of Zoological literature for 1904; **International Catalogue**.

Zoologischer Jahresbericht für 1905, Hrsg. v. d. Zoolog. Station zu Neapel; **Mayer**.

Bibliographia Zoologica; **Field**.

Bericht über die wissenschaftlichen Leistungen in der Naturgeschichte der niederen Thiere. Begründet v. R. Leuckart. N.F. Bd 16. Berlin (Nicolai), 1906, (III + 596). 24 cm. 44 M. [= Arch. Natg., Berlin, 66, Bd 2, H. 3].

Russische Bibliographie für Naturgeschichte und Mathematik. II. Band. (1901–1902); **St. Petersburg Bureau**.

Jahresberichte Anatomie und Entwicklungsgeschichte, 1904; **Schwalbe**, G., 1.

Index-catalogue of medical and veterinary zoology; **Stiles** and **Hassall**, 1, 2, 3.

Special anatomy and physiology of the Gasteropoda of the United States—**Leidy**. A correction, to **Leidy**, Joseph; Researches in helminthology and parasitology; **Leidy**.

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Ergänzungen zu „Deutsche—insbesondere hessische—Tiernamen“ und zu dem „Nachtrag“; **Lauer**, 1.

Pedagogy. 0050

Der Unterricht in der Natur als Mittel für grundlegende Anschauung; **John**.

L'enseignement des Sciences naturelles; **Bernard**.

Zeichenskizzen zum naturkundlichen Unterricht nach biologischen Grundsätzen; **Engleder**.

Die technische Ausbildung der Zoologen; **Freund**.

Bericht über den Unterricht in der Zoologie an den neunklassigen höheren Lehranstalten; **Gutzmer**.

Sur la nécessité de réforme de l'enseignement d'histoire naturelle dans les lycées polonais (Polish); **Lomnicki**.

Der biologische Unterricht an der höheren Schulen; **Wasmann**, 2.

Die Methodik im zoologischen Unterricht an Universitäten; **Dahl**, 2.

Frage des biologischen Schulunterrichts; **Zacharias**, 5.

Plankton als Gegenstand eines zeitgemässen biologischen Schulunterrichts; **Zacharias**, 3.

Insektensammlungen für Mittelschulen (ungarisch); **Szilády**.

Abbildungen und Beschreibungen der gewöhnlichen Thiere. Für den ersten Unterricht in der Zoologie. 2. Aufl. (Norw.); **Thor**.

Die Behandlung der niederen Tiere in in O III der Realanstalten. Tl. 1: Die Urtiere; **Kalide**.

Sorgdrager, Anatomische Modelle; **Illig**.

Zoologische Wandtafeln. Taf. 5: Ringelnatter und Kreuzotter. 6: Korallen. 12: Bandwürmer; **Schmeil**, 2.

Anatomische Wandtafeln für den naturgeschichtlichen Unterricht an höheren Lehranstalten; **Frenkel**.

Zoologische Praeparate für Schulzwecke; **Werner**, 2.

School museum; **Latter**, 2.

Zoologische Schulsammlungen; **Hanstein**, 2.

Sur les collections d'histoire naturelle dans nos collèges (Polish); **Friedberg**, Wilhelm.

Bestimmungsübungen und Exkursionen. Zur Einführung der Lehramtskandidaten in die Kenntnis der einheimischen Fauna; **Schuberg**.

Ueber die Verwendung von microphotographischen Lichtbildern beim zoologischen und anatomischen Unterricht; **Stempell**.

Institutions, Museums, Economic, etc. 0060

Die Aufgabe der Museen; **Wandolleck**.

Die Aufgabe der Museen, Erwiderung an B. Wandolleck; **Lehmann**, 1.

Zoologische Gärten und naturhistorische Museen; **Pleyel**.

The inductive method in installation; **Lowe**.

Laboratoires maritimes; **Francotte**.

Musee océanographique de Monaco; **Richard**, 1.

Marine station, Murman coast; **Awerintzew**.

Biologische Laboratorien an Binnenseen und Teichen; **Zacharias**, 2.

Laboratorio galleggiante per la Biologia marina; **Zacharias**, 8.

Die biologische Süßwasserstation der Kaiserlichen Naturforscher-Gesellschaft zu St. Petersburg (Russ.); **Borodin**.

La station zoologique de Naples. Pourquoi la France y doit avoir une place?; **Caullery**, 3.

The Portobello marine fish-hatchery and biological station; **Thomson**.

Murmansche biologische Station (Russ.); **Derjugin**, 2.

Station entomologique de l'Université de Rennes; **Houlbert**.

La Station zoologique de Cette; **Calvet**.

Stations zoologiques méditerranéennes de Cette et de Banyuls; **Justice**.

Entstehungsgeschichte und weitere Entwicklung des Zoologischen Instituts der Universität Marburg; **Korschelt**, 5.

Zoological institute, Breslau; **Hoyle**, 2.

Zur Geschichte des Grossh. Bad. Naturalienkabinetts in Karlsruhe (1751–1878); **May**.

Le Museum d'histoire naturelle de New York; **Halet**.

Das Reichs-Museum für Naturgeschichte in Leiden und seine Umgestaltung in ein Ideal-Museum; **Finsch**.

The Bristol Museum; **Barker**; **Bolton**.

Zoological gardens, museums and aquariums, report on some; **Flower**.

Einige biologische Gruppen im Museum zu Bergen. (Norw.); **Grieg**.

Exhibited specimens, Natal Museum; **Warren**.

Cartes pour collections d'animaux ; **Schaeck**.

Types du Prodrôme de Paléontologie stratigraphique universelle de d'Orbigny. Ann. Paléont., Paris, **1**, 1906, (97-100, 165-172, 193-196, av. pl. ; et pag. spéc., 1-16).

Die Feuersgefahr in den naturhistorischen Museen ; **Römer**.

Ein Gang durch den Zoologischen Garten in Basel ; **Lauer**, **2**.

Les idées des anciens et des modernes sur l'utilisation scientifique des ménageries ; **Loisel**, **6**.

Projet de réorganisation de la ménagerie du Muséum ; **Loisel**, **5**.

Inventaire des animaux des ménageries au 22 mai 1906. Bul. Muséum, Paris, **12**, 1906, (233-243).

Dispositions réglementaires relatives aux ménageries du Muséum, approuvées par l'Assemblée des Professeurs, dans la séance du 1^{er} février 1906. Bul. Muséum, Paris, **12**, 1906, (244-245).

Die kaiserliche biologische Anstalt für Land- und Forstwirtschaft in Dahlem bei Steglitz ; **Aderhold**, **1**.

Die Tiere im Dienste der Wissenschaft und der Heilkunde ; **Zuntz**.

Tierschutz, Tierliebhaberei und Tierkunde ; **Werner**, **1**.

Des Landwirtes Freunde und Feinde unter den freilebenden Tieren ; **Rörig**, **2**.

Economic zoology ; **Barrows**.

Einführung in das Studium der medizinischen Zoologie (Russ.) ; **Repjachov**.

Die Tiere als Feinde der Kultur ; **Eckstein**, **1**.

Nutzen u. Schaden der Thiere ; **Eckstein**, **2**.

Die Krankheiten und Beschädigungen unserer landwirtschaftlichen Kulturpflanzen ; **Kirchner**.

Volcanic action, effect of on life ; **Lo Bianco**, **1 & 2**.

Verzeichnis der Thiere, welche den Runkelrüben im europäischen Russland und in Westeuropa Schaden zufügen (Russ.) ; **Vasiljev**.

National control of introduced insect pests ; **Sanderson**.

Le repeuplement des eaux douces ; **Roule**.

Nomenclature.

0070

Report of Committee on nomenclature. Washington, D.C., Bull., U. S. Dept. Agric., Bur. Ent., No. **60**, 1906, (25-28).

Different kinds of types ; **Fernald**.

Subgenera, and other matters ; **Allen**, **2**.

Designation of generic types ; **Stiles**, **1 & 2**.

The nomenclature of types in natural history ; **Schuchert** and **Buckman**, **1 & 2**.

Fixing types of genera ; **Allen**, **5** ; **Bather** ; **Stone**, **1**.

W & K use of ; **Cockerell**, **5**.

Publication de fiches phototypiques représentant les types originaux des espèces décrites par les anciens auteurs ; **Joubin**.

Technique, Methods.

0090

Bemerkungen aus der zoologischen Praxis (Russ.) ; **Koževnikov**.

Rekonstruktion, die Methoden der ; **Peter**, **2**.

Das Sammeln von Reptilien, Batrachien und Fischen ; **Günther**, **G.**, **2**.

Appareil pour la recherche et la récolte rapide du plankton ; **Viguier**.

Das Sammeln und Beobachten von Plankton ; **Apstein**, **1**.

Das Sammeln und Konservieren wirbelloser Seetiere ; **Plate**, **2**.

A new way of mounting natural history specimens and preparations for demonstration and museum purposes ; **Nishikawa**.

Kombinierte, plastische Leimmasse und ihre Anwendung bei der Verfertigung von Knochenpräparaten ; **Skoda**.

Somatometria ; **Broglio** ; **Helguero**.

Modificazioni apportate al somatometro a compasso ; **Andres**.

Tecnica delle sezioni microscopiche ; **Vastarini-Cresi**.

Ueber eine neue Methode der embryonalen Transplantation ; **Spemann**.

Ein Desinfektionskasten und ein Transportgefäß für naturwissenschaftliche Museen; **Auerbach**.

Ritrovare la posizione di uno punti interessanti di preparati microscopici; **Curreri**.

Méthode des disques rotatifs et la technique microscopique; **Lebrun**.

La fotossilina come mezzo di inclusione; **Vecchi**.

Technique, tissu osseux; **Retterer, 2**.

Metodo di reazione al cloruro d'oro per le fibre e le espansioni nervose periferiche; **Ruffini, 2**.

Modification à la méthode de coloration de Romanowsky-Giemsa; **Billet**.

Chemische und biologische Bedeutung der Osmiumschwarzung; **Neubauer**.

Eine Modifikation der Härtung mit Formaldehyd unter Beseitigung des Geruches desselben; **Neumayer**.

Deux liquides fixateurs isotoniques avec l'eau de mer; **Dekhuyzen**.

Fixation à l'état d'extension des animalcules contractiles; **Beauchamp**.

Fixierung, Einfluss der auf das Volumen der Organe; **Stoeltzner**.

Un nuovo metodo per la colorazione specifica delle Mastzellen; **Federici**.

Metodo Pollacci, microchimica del fosforo; **Comes, 1**.

Ricerca microchimica del fosforo; **Arcangeli**.

Metodo di G. Pollacci, microchimico del fosforo nei tessuti; **Comes, 2**.

Méthode de Apathy; **Nabias, 1**.

Action de l'hydroxylamine sur le virage de l'or en histologie; **Nabias, 2**.

Nouvel appareil de microphotographie; **Pinoy**.

Photographieren lebender Wassertiere; **Köhler**.

MORPHOLOGY. 0207

General.

Revue annuelle d'Anatomie; **Laguesse**.

Jahresberichte, Anatomie und Entwicklungsgeschichte, 1904; **Schwalbe, G., 1**.

(N-9720 q)

Jahresberichte über die Fortschritte der Anatomie und Entwicklungsgeschichte; **Schwalbe, G. and others**.

Gesamtregister zu Jahresberichten der Anatomie und Entwicklungsgeschichte, 1892-1901; **Schwalbe, Ernst**.

Anatomical literature, America, 1902-1904; **Warren, John**.

Anatomische, histologische und embryologische Literatur Russlands, 1904-1906; **Stieda**.

[**Galenus, Claudius**.] Sieben Bücher Anatomie des Galen, *ἀνατομικῶν ἐγχειρήσεων βιβλίον Θ-ΙΕ*.

Haeckel's Generellen Morphologie condensed; **Haeckel, 1**.

Zoologie pratique basée sur la dissection des animaux les plus répandus; **Jammes**.

Morphology and Physiology, causality in Morphology; **Roux & Braus**.

Organisation de la substance vivante; **Fauré-Frémiet**.

The germinal layers, importance, recent views; **Jenkinson, 1**.

Abriss der Keimblätterlehre in der Vergangenheit und der Gegenwart (Russ.); **Kuschakewitsch**.

Die anatomischen Namen, ihre Ableitung und Aussprache; **Triepel**.

Handbuch der vergleichenden Anatomie der Haustiere; **Ellenberger and Baum**.

Handbuch der Anatomie der Tiere für Künstler; **Ellenberger, Baum, und Dittrich**.

Anatomisches Wäldchen. Beitrag zur Vervollständigung der anatomischen Lehrmittel; **Rauber**.

(**Delage, 4**; Anatomie comparée et bases de la morphologie.)

L'Anatomia comparata secondo Vogt e Yung; **Maggi, 2**.

Homologisierung des Mundes des Amphioxus und die primitive Leibesgliederung der Wirbeltiere; **Wijhe**.

Teratology *vide* **Aetiology**, p. 58.

Histology.

Photomikroskop für ultraviolette Strahlen und seine Bedeutung für die

histologische Untersuchung, insbesondere der Hautgewebe; **Dieck**.

Die tierische Zelle; **Gunther**, G., 1.

Zelle u. Gewebe; **Hertwig**, O., 2.

Cell communications; **Shearer**.

Les vacuolides, constitution intime du protoplasma des Protozoaires; **Dubois**, 3.

Nomenclature des éléments protoplasmiques; **Künstler**, 1.

Zelle und Zellkern (Russ.); **Cholodkovsky**.

Noyaux unis- et plurisphérulaires; **Künstler**, 2.

Nouvelle espèce cellulaire dans les glandes de Lieberkühn; **Ciaccio**.

Zellformen des lockeren Bindegewebes; **Maximow**.

Cellules rhagiocrines libres du liquide des diverses séreuses; **Renaut** et **Dubreuil**.

Homologisierung des Binnennetzes der Ganglienzellen mit den Chromidien (= Mitochondria, etc.) der Geschlechtszellen; **Popoff**.

La structure fine du système nerveux; **Nageotte**.

Ueber Spinalganglienzellen und Markscheiden. Zugleich ein Versuch die Wirkungsweise der Osmiumsäure zu analysieren; **Sjövall**, 2.

Noyau de la cellule nerveuse dans la méthode à l'argent réduit; **Lache**.

Etwas über Neurilemmkerne. (Zum „Vorschlag“ des Herrn Prof. O. Schultze.); **Leontowitsch**.

Vakuolisierung der Ganglienzellen; **Menci**.

Per la colorazione delle cellule cromofile dell' Hypophysis cerebri; **Cagnetto**.

Struttura della cellula nervosa dei gangli spinali; **Cesa-Bianchi**.

Neurone und Neuronenbahnen; **Schiefferdecker**.

L'origine des nucléoles vrais ou plasmosomes des cellules nerveuses; **Havet**.

Espansioni nervose periferiche; **Ruffini**, 1.

Nature pathologique des canalicules de Holmgren des cellules nerveuses; **Legendre**.

Struttura delle placche motrici e dei fusi neuromuscolari; **Gemelli**.

Guaina subsidaria von Ruffini, Nervenfasern; **Retzius**.

Tegument and Special Glands.

Materialien zur vergleichenden Histologie der Hautdecke der Wirbeltiere; **Nusbaum** und **Kulczycki**.

Beitrag zur Kenntnis des Pigmentes; **Vörner**.

Morphologie der Nebenniere iii (Russ.); **Landau**.

Thymus-Elemente, Natur der; **Stöhr**.

Skeleton.

Les trous de la symphyse du menton; **Dubreuil-Chambardel**.

Economia di sostanza, ossa cave; **Enriques**.

Ueber die Mundbildung der Wirbeltiere; **Jaeckel**.

Technique pour l'étude du tissu osseux rougi par l'alimentation garancée; **Retterer**, 2.

Colorations intra-vitales et post-vitales du tissu osseux; **Retterer**, 3.

Adaptive modifications of the limb skeleton in aquatic reptiles and mammals; **Osburn**.

Demonstration embryonaler Skelette; **Moser**.

Nature et origine de fibres de Sharpey; **Retterer**, 1.

Torsion of the crustacean limb; **Herrick**.

Nervous system. Sense organs.

Vide etiam Histology.

Elementaren Bau des Nervensystems; **Pflüger**.

Augen der Tiefseetiere; **Rabes**, 1.

Eyes of the blind vertebrates; **Payne**.

Ear, labyrinth; **Gray**.

Myology.

Nomenclature myologique; **Chaine**.

Den feineren Bau der contractilen Substanz (Russ.); **Schlater**.

Das Studium der Gelenke und Muskeln in gegenwärtiger Zeit (Russ.); **Leshaft**.

Alimentary system. Blood.

Villosités intestinales; **Bujard**.

Valeur cellulaire des hématies des Mammifères et de l'origine de leurs parties constituantes; **Retterer, 4**.

Respiratory system.

Die Homologie der Anamnierkiemen; **Greil**.

PHYSIOLOGY. 0211

General.

Revue annuelle de physiologie; **Fredericq, Léon, 1**.

Das Gesetz von der Erhaltung der Energie in seiner Anwendung auf den tierischen Organismus; **Caspari**.

The dynamics of living matter; **Loeb, 1**.

(**Bohn, 10**. Sur le parallélisme entre le phototropisme et la parthénogenèse artificielle.)

Pathologie et classification zoologique; **Galli-Valerio, 1**.

Croissance de la cellule artificielle; **Leduc**.

Crystals and organisms; **Lehman, 2**; also **Przibram**.

Physiologie comparée. Etude du liquide périviscéral des Oursins. Éléments figurés. Phénomène de la coagulation et son rôle biologique; **Henri**.

Animal and plant, distinctions; **Quayle**.

Studies on the germ cells of aphids; **Stevens, 1, 2 and 4**.

(**Calkins, 3**. Life history of Protozoa. IV. Death of the A series. Conclusions.)

Cytological. Protoplasm and Cell.

Zellkern und Zellplasma, selbständige systeme?; **Schucking**.

Karyokinesis, Bipolar interpretation of; **Gallardo**.

Les explications physiques du champ de force de la cellule en cinèse; **Hartog**.

(N-9720 q)

Maiotic process, *Mammalia*; **Moore and Walker**.

Ursache der Reifeteilungen und den Charakter der Polkörper; **Kuckuck, 1**.

Chromosomes, aberrant, behaviour, terminology; **Montgomery, 1**.

Chromosome reduction (in Slavonian); **Gjurašin**.

Rapporti fra nucleolo, nucleo, e granulazione del protoplasma; **Ferrata**.

Insect - parthenogenesis, cytology; **Hewitt**.

Effets généraux produits par les rayons de Röntgen sur les cellules vivantes d'après les résultats observés jusqu'à présent dans l'épithélium séminal; **Regaud et Blanc, 1**.

Sex.

Weitere Untersuchungen über das Sexualitätsproblem; **Hertwig, 2**.

Indépendance des deux problèmes de la spécificité sexuelle des ovules et de la production des sexes à volonté. Théorie physique de la sexualité; **Bard**.

Le caractère physiologique du sexe est l'état électrique des colloïdes des cellules sexuelles; **Kuckuk, 2**.

Déterminisme sexuel, et la procréation des sexes; **Loisel, 2**.

Production of sex, Hertwig's views; **Wilson, 2**.

Polyembryony and determination of sex; **Howard**.

The sexual differences of the chromosome-groups in Hemiptera, with some considerations on the determination and inheritance of sex; **Wilson, 3**.

Wodurch erzielen wir bei Menschen und Tieren willkürlich männliches und weibliches Geschlecht; **Zappold**.

L'individu femelle, caractéristique générale; **Loisel, 4**.

Geschlechtsdimorphismus bei Tieren und Haustieren. Aus d. Ital. übers.; **Marchi**.

Die Geschlechter der Tiere. Tl 3: Der Schädel; **Möbius, P. J.**

(**Kellogg, 5**. Influence of the primary reproductive organs on the secondary sexual characters.)

Hermaphroditismen. [Neuere Anschauungen über den Hermaphroditismus]; **Bonnevie, 3.**

Parthenogenesis.

Parthenogenesis, nature of; **Punnett.**

Cytological phenomena of parthenogenesis; **Hewitt.**

Variation in parthenogenetic insects; **Kellogg, 4.**

Artificial parthenogenesis *vide* Development p. 51.

Metabolic. Metamorphosis.

Der morphologische Metabolismus des lebenden Protoplasmas; **Růžicka.**

Rinnovamento dell' organismo studiate negli animali ibernanti; **Monti, 1.**

Metabolism in unicellular organisms; **Caikins.**

Stoffwechsel und Herz; **Hesse, 1.**

Ueber die Beziehungen der Wanderzellen zu den Zellbrücken, Zelllücken und Trophospongien; **Reinke, 1.**

Genesi endoteliale e la natura degenerativa dei globuli bianchi mononucleati; **Corti.**

Processus phagocytaires pendant la métamorphose des Batraciens anoures et des Insectes; **Mercier.**

Fonctions de nutrition, des processus d'ontogenèse, de régénération et de métamorphose, chez les larves d'*Alytes*, en l'absence d'une grande étendue de la moelle; **Wintrebert, 1.**

La métamorphose de *Salamandra maculosa* en dehors de la moelle et des ganglions spinaux; **Wintrebert, 2.**

Indépendance de la métamorphose vis-à-vis du système nerveux chez les Batraciens; **Wintrebert, 3.**

Generationswechsel, Metamorphose und direkte Entwicklung; **Wedekind, 1 and 2.**

Function.

Theorie der Richtungsbewegungen niederer schwimmender Organismen; **Ostwald.**

La vision dans les grandes profondeurs de la mer; **Caullery, 2.**

Experiments on the developing ear vesicle of the tadpole with relation to equilibration; **Streeter.**

Nerfs du cœur des Invertébrés; **Carlson, 1 and 2.**

(**Parker, 2;** Ctenophores, theories of ciliary metachronism.)

Croissance de l'homme et des êtres vivants, en général; **Henry et Bastien.**

Environment. Adaptation.

Ueber Konvergenzerscheinungen im Tierreich; **Gerhardt.**

Konvergenzerscheinungen im Tierreich; **Schmidt, (Russ), 1.**

Volant adaptation in vertebrates; **Lull.**

Maintien du milieu marin originel, comme milieu vital chez les Vertébrés; **Quinton, 3.**

Loi de constance marine originelle; **Quinton, 1.**

Loi générale de constance originelle du milieu vital des cellules; **Quinton, 2.**

Das Aufleben aus der Erstarrung; **Müller, W.**

Blanchissement hivernal des poils et des plumes; **Metchnikoff, 2.**

Modifications de constitution de la substance vivante consécutives aux variations du milieu; **Künstler et Gineste, 1.**

Sur les courbures dues à la lumière; **Bohn, 1.**

Le rythme des marées et la matière vivante; **Bohn, 9.**

Beobachtungen auf alpinen Höhen zur kalten Jahreszeit; **Ammann.**

Bedeutung des Pigmentes für die physiologische Wirkung der Lichtstrahlen Vergleichend physiologische Untersuchungen; **Hertel.**

The influence of light and heat on the movement of melanophore pigment, especially in lizards; **Parker, 1.**

Light reactions in lower organisms; **Mast.**

Regeneration.

Regeneration und Transplantation im Tierreich; **Korschelt**, 3 and 4.

The physiology of regeneration; **Morgan**, T. H., 3.

Regeneration und Involution; **Barfurth**, 2.

Regenerierende Regenerate; **Driesch**, 1.

Morphogenesis, regulation; **Child**, 1.

Experimentelles und Kritisches, Regeneration; **Tornier**, 2.

Regeneration and autotomy, *Arachnida*; **Friedrich**, P.

The relation between functional regulation and form-regulation; **Child**, 3.

Germ-layers and regeneration; **Morgan**, T. H., 4.

Beziehungen des Lymphdruckes zu den Erscheinungen der Regeneration und des Wachstums; **Reinke**, Fr., 2.

Regulation. I. The significance of the different methods of regulation in *Turbellaria*; **Child**, 2.

(**Child**, 7; Studies on regulation. IV. Form-regulation in *Leptoplana*.)

(**Child**, 8; Studies on regulation. V. The relation between the central nervous system and regeneration in *Leptoplana*.)

(**Child**, 9; Studies on regulation. VI. The relation between the central nervous system and regulation in *Leptoplana*.)

(**Child**, 10; Studies on regulation. VII. Further experiments on form regulation in *Leptoplana*.)

Incomplete anterior regeneration in the absence of the brain in *Leptoplana littoralis*; **Morgan**, Lilian V., 2.

The relation between regulation and fission in *Planaria*; **Child**, 4.

Regeneration of grafted pieces of anurians; **Morgan**, Lilian V., 1.

(Regeneration in *Polychaerus caudatus*; **Stevens** and **Boring**, 1 and 2.)

(**Child**, 6; Form-regulation in *Cerianthus*, 9. Regulation, form, and proportion.)

(**Hahn**; Dimorphism and regeneration in *Metridium*.)

Regeneration in *Fundulus heteroclitus*; **Morrill**.

Regeneration of heteromorphic tails in posterior pieces of *Planaria simplicissima*; **Morgan**, T. H., 6.

Analysis of the phenomena of polarity in *Tubularia*; **Morgan**, T. H., 8.

Hydranth formation and polarity in *Tubularia*; **Morgan**, T. H., 2.

Polarity in *Tubularia*; **Morgan** and **Stevens**.

Regeneration of a heteromorphic tail, *Allolobophora foetida*; **Dimon**.

(Physiological "polarity" and electrical polarity, earthworm; **Morgan** and **Dimon**.)

Physiological regeneration in insects; **Kellogg**, 1.

Tissues, in regeneration of skin; **Tornier**, 1.

(**Zeleny**, 2; Compensatory regulation).

(**Zeleny**, 3; Relation of the degree of injury to the rate of regeneration.)

The regeneration of a double chela in the fiddler crab (*Ciclasinus pugilator*) in place of a normal single one; **Zeleny**, 4.

Light as a factor in the regeneration of hydroids; **Goldfarb**.

Growth and regeneration of the gills in the young *Necturus*; **Eycleshymer**.

Torsion in the regeneration of the cheliped of the lobster; **Emmel**.

Regeneration peripherer Nerven; **Barfurth**.

Senescence, Death.

La mort naturelle dans le règne animal; **Metchnikoff**, 1.

Tod und Fortpflanzung; **Hartmann**, Max.

Das Altern (ungarisch); **Dalmady**.

Das Alter der Tiere; **Korschelt**, 2 & 6.

Chemical.

Jahres-Bericht über die Fortschritte der Tier-Chemie oder der physiologischen und pathologischen Chemie. Begr. v. Richard Malv. Fortges. v. R. Andreasch, M. v. Nencki†, K. Spiro.

34, über das Jahr 1904. Hrsg. u. red. v. Rud. Andreasch und Karl Spiro unter Mitwirkung v. L. Blum [u. a.]. Wiesbaden (J. F. Bergmann), 1905, (v + 1244). 23 cm.

Tierische Gifte; **Faust**.

Daten zur Kenntnis der quantitativen Zusammensetzung verschiedener Körperflüssigkeiten von Seetieren (Fischen und einigen Wirbellosen); **Baglioni**.

Tierische Gifte und Arzneistoffe; **Maass**.

Lehrbuch der Intoxikationen. 2. durchweg neu bearb. Aufl. 2 Bde. Bd II: Spezieller T.; **Kobert**.

La toxicité des œufs; **Loisel**, 12.

(**Loisel**, 14; Toxicité du liquide séminal et considérations générales sur la toxicité des produits génitaux).

Sur les venins animaux (Polish); **Lemberger**.

(**Szczawinska**; Cytotoxines chez les Invertébrés.)

Substances toxiques produites par les parasites intestinaux; **Blanchard**, 2.

Phosphorous compounds; **Bensley**.

Substances fluorescentes chez quelques animaux invertébrés; **Dubois**, 2.

Kristallinische Chitosanverbindungen aus Sepienschulpen; ein Beitrag zur Kenntniss des Chitins; **Fürth** und **Russo**.

Hybrids: *vide* Aetiology.

DEVELOPMENT. 0215

Metamorphosis, *vide* Physiology.

Regeneration; *vide* Physiology.

General.

Lehrbuch der Entwicklungsgeschichte des Menschen und der Wirbeltiere; **Hertwig**, O., 1.

Das Wesen der Fortpflanzung. Neue Gesichtspunkte; **Koenig**.

Jahresberichte, Anatomie und Entwicklungsgeschichte, 1904; **Schwalbe**, G., 1.

Neurosyncytial development; **Gaskell**.

Parthenogenetic development, *Amphitrite*; **Scott**.

Alternation of generations in animals from a botanical standpoint; **Chamberlain**.

Der Bau der Geschlechtszellen; **Thesing**.

Beobachtungen an den Keimzellen von *Enteroxenos östergreni*; **Bonnevie**, 1.

L'œuf et la genèse des organes; **Caullery**, 1.

Ein Versuch, das Binnennetz von Golgi-Kopsch bei der Spermato- und Oogenese zu homologisieren; **Sjövall**, 1.

A reducing division in *Ascaris*; **Griggs**.

The relation between functional regulation and form-regulation; **Child**, 3.

"Polarity" a phenomenon of gradation of materials; **Morgan**, T. H., 7.

The effects on embryonic development of the Röntgen rays acting on the spermatozoa of the toad previous to fertilization; **Bardeen**.

Ovum Oogenesis.

Trasformazione sperimentale delle uova lecitiche diffuse in uova telolecitiche; **Sanzo**.

Oogenesis, *Antedon*, cell-metabolism; **Chubb**.

Vitellus; **Du Buisson**.

Polarité de l'œuf des oursins (*Paracentrotus lividus*); **Garbowski**. (Polish.)

Ovocytes ramifiés et à forme hydroïde; **Soyer**.

Structure de l'œuf de Chauve-Souris (*Vespertilio noctula*); **Van der Stricht**, 1.

Les mitoses de maturation de l'œuf de la Chauve-Souris (*V. noctula*); **Van der Stricht**, 2.

Formation of the first polar spindle, egg, *Bufo lentiginosus*; **King**, 3.

Spermatogenesis.

Action des rayons X sur les diverses générations de la lignée spermatique. Extrême sensibilité des spermatogonies à ces rayons; **Regaud** et **Blanc**, 1 and 2.

Morphologie und Genese abweichend gestalteter Spermatozoen; **Korscheit, 1.**

Ueber das Verhalten von Wirbeltierspermatozoen in strömenden Flüssigkeiten; **Adolphi.**

(**Pizon**; Prétendue ovulase des spermatozoïdes.)

Accessory chromosome, *Epeira*; **Berry, 2.**

Heterochromosomen; **Gutherz.**

Heterochromosomes, *Coleoptera*, *Hemiptera* and *Lepidoptera* sex determination; **Stevens, 3 and 3a.**

Comparative study of the spermatogenesis of insects; **McClung.**

Chromosomes in the spermatogenesis of the Hemiptera Heteroptera; **Montgomery, 2.**

(**Wilson, 6**; Studies on chromosomes. The behaviour of the idiochromosomes in Hemiptera.)

(**Wilson, 7**; Studies on chromosomes. II. The paired microchromosomes, idiochromosomes and heterotropic chromosomes in Hemiptera.)

Spermatogenesis, *Triton*; **Walker & Embleton.**

Spermatogenesis, *Oniscus*, chromosomes; **Nichols.**

Spermatogenesis *Forficula*; **Zweiger, 1 & 2.**

Spermatogenesis of *Coptocycla aurichalcea* and *guttata*, sex determination; **Nowlin.**

Spermatogenesis of the butterfly, *Papilio rutulus*; **Munson.**

Spermatogenesis of the honey bee; **Mark and Copeland.**

Modifications du syncytium nourricier dans le tube séminifère des hybrides; **Stephan, 3.**

Embryology. Organogeny.

Revue annuelle d'Embryologie; **Loisel, 10.**

The relation between normal and abnormal development of the embryo of the frog; **Morgan, T. H., 5.**

(**Peter, 1**; Variabilität in der tierischen Entwicklung.)

Abriss der Keimblätterlehre in der Vergangenheit und der Gegenwart. (Russ.); **Kuschakewitsch.**

Mode of origin of the germinal layers in *Megalobatrachus maximus* (Schlegel) [and in holoblastic *Anammia* in general.] (Dutch); **Lange, D. de.**

Corrélations embryonnaires; **Rabaud, 2.**

Herkunft der Teilungscentren der ersten Furchungsspindel im befruchteten Ei; **Kostanecki.**

Gastrulation; **Eternod.**

Embryology, *Chaetopterus*; **Lillie.**

Development of the starfish egg; **Tennent and Hogue.**

(**Conklin, 3**; Mosaic development in ascidian eggs.)

Egg and first stages, Ascidians; **Conklin, 1**; **Child, 5.**

Cell-lineage, Ascidian egg; **Child, 5.**

(**Wilson, 4**; Experimental studies on germinal localization. I. The germ-regions in the egg of *Dentalium*.)

Experimental studies in germinal localization. II. *Patella* and *Dentalium*; **Wilson, 5.**

Entwicklung des peripheren Nervensystems; **Kohn.**

Zür Frage nach der Entwicklung der peripherischen Nervenfasern.; **Lenhosék.**

Entwicklungsphysiologie der Bilateralität; **Driesch, 2.**

Fertilization.

Imprégnation et fécondation; **Bataillon, 1.**

Ueber das Wesen der Befruchtung; **Prowazek, 1.**

Kontaktreizbarkeit; **Dewitz.**

Attrazione delle cellule sessuali; **Drago.**

Dispermy; **Boveri.**

Physiologische Polyspermie; **Bonnevie, 2.**

Self-fertilization induced by artificial means; **Morgan, T. H., 1.**

Versuche über Entwicklungserregung und Membranbildung bei Seeigeln.

leiern durch Molluskensperma; **Kupelwieser**.

Experimental embryology.

Influence de quelques facteurs sur la parthénogénèse expérimentale; **Delage, 1.**

Adjuvants spécifiques de la parthénogénèse expérimentale; **Delage, 2.**

Einfluss der Radiumstrahlen auf embryonale und regenerative Entwicklung. Nach den hinterlassenen Präparaten von Prof. Alfred **Schaper†; Levy.**

Künstliche Parthenogenese und das Wesen des Befruchtungsvorgangs; **Loeb, 2.**

(**Battaillon, 3.** Role de la pression osmotique en tératogénèse et en parthénogénèse expérimentales.)

Pressione osmotica e potere fecondante, nematospermii; **Ariola.**

Maturation de l'œuf chez *Rana fusca*: segmentation parthénogénésique; **Battaillon, 2.**

Développement de l'œuf de l'*Ascaris vitulorum* en milieu artificiel; **Jammes et Martin.**

Salt solutions, frog's egg; **Jenkinson, 2.**

Compression, effects of on maturation and early development; **King, 1 and 2.**

Parthénogénèse artificielle des œufs du bombyx du mûrier, Recherches expérimentales; **Quajat.**

Elimination der Augenblasen und Entwicklung des Gesamtorganismus; **Steinitz.**

(**Zeleny, 1;** Experiments on the localization of developmental factors in the nemertine egg.)

ETHOLOGY. 0219

General.

Ecological adaptation and ecological selection; **Robertson.**

Einführung in die Biologie der niederen Meerestiere; **Schoenichen.**

Naturwissenschaftliche, Plaudereien. Populär; Beobachtungen aus d. Tierleben; **Budde.**

Wetter und Erdbeben anzeigenden Tiere (ungarisch); **Méhely.**

Popular work on habits; **Coupin & Lea.**

Footprints, mammals; **Gauvreau.**

Phenology.

Observations phénologiques effectuées à Ożydów en 1904 (Polish); **Hawrysiewicz.**

Parental.

Origines de l'amour maternel; **Giard, 2.**

Relations entre les phénomènes du rut, de la lactation, de la mue et de l'amour maternel chez une Chienne hybride; **Loisel. 11.**

Sexual.

Sexualität und ästhetisches Empfinden in ihrem genetischen Zusammenhange; **Kronfeld.**

Social.

Sociétés animales, origine; **Petrucchi.**

Soziales und Wirtschaftliches aus dem Tierreich; **Huncke.**

Anfänge von Recht und Rang bei den höheren Tieren; **Velden, 2.**

Symbiose als abstracte Auffassung des beweglichen Gleichgewichts der Symbionten. (Russ. & deutsch. Rés.); **Elenkin.**

Animals associated with *Spongilla carteri*; **Annandale.**

Parasitism.

Parasitismus der Thiere. (Russ.); **Mordvilko.**

Parasitisme et mutualisme dans la nature; **Lafitte.**

Notes de parasitologie. A. Parasites végétaux. B. Parasites animaux; **Galli-Valerio, 2.**

How parasites are transmitted, modes of infection; **Ransom.**

Bacterial flora of carnivorous and of herbivorous animals; **Herter.**

Voice.

Die Stimmklänge der Tiere sind Mitbewegungen; **Knickenberg**.

(*Régis*; Les cris des animaux.)

Habitat.

Tierleben am Strande eines Atolles; **Schnee, 1**.

Faune bathypélagique, et des grands fonds; **Bouvier, 2**.

Faune pélagique, invertébrés; **Bouvier, 1**.

Sharks' teeth and cetacean bones; **Eastman, 2**.

Das Leben im Wasser und das Aquarium; **Jaeger**.

Termobiosi; **Issel**.

Die Kokospalme als Wohnort für Tiere; **Winkler**.

Die Bewohner der Moorsrasen Ostpreussens; **Selinik**.

Ueber die mikroskopische Fauna und Flora eines im Freien stehenden Taufbeckens; **Zacharias, 6**.

(*Monti, Rina, 2*; Un modo di migrazione del plancton [lacustre] fin qui sconosciuto.)

Speleology.

Spelunca. Bulletin et Mémoires de la Société de Spéléologie. Dir. Martel. Trimestriel. Paris, (34, rue de Lille), 25 cm, 5. [Résultat de la fusion, à partir de 1901, de deux publications de la Société de Spéléologie: Spelunca et Paris, Mém. soc. spéléol.]

La spéléologie au XX^e siècle. Revue et bibliographie des recherches souterraines de 1901 à 1905; **Martel**.

Origines de la faune souterraine; **Peyerimhoff, 1**.

Faune cavernicole des Basses-Alpes; **Peyerimhoff, 2**.

Movement.

La finalité dans l'étude des mouvements; **Bohn, 8**.

Mouvements en relation avec l'assimilation pigmentaire chez les animaux; **Bohn, 7**.

Spazierengehende Fische, musizierende Krebse und andere sonderbare Gesellen; **Schnee, 2**.

Locomotion of amoebae and allied forms; **Dellinger**.

Psychology.

Intelligence of animals; **Avebury**.

Instinkt und Seelenleben; **Rohweder**.

De la bêtise du Chien et de la haute intelligence du Mouton (éthologie et psychologie comparées); **Baron**.

L'abstraction chez les animaux; **Hachet-Souplet**.

Menschlichen Reflexerscheinungen im Vergleich zu den tierischen; **Velden, 1**.

Menschen- und Tierseele; **Wundt**.

L'individualité animale. Observations de MM. Perrier, Baron; **Mezzara**.

Können die Tiere Schönheit wahrnehmen und empfinden?; **Möbius, 2**.

Orts- und Richtungssinn der Tiere; **Hopf**.

Stereotropismus etc.; **Dewitz**.

The mutual relations of stimuli in the frog; **Yerkes, 4**.

Relations of some plancton animals to light, (Danish); **Ditlevson**.

Sur l'adaptation des réactions phototropiques; **Bohn, 4**.

Sur des mouvements de roulement influencés par la lumière; **Bohn, 6**.

Temporal relations of neural processes; **Yerkes, 5**.

Le rythme des marées et le phénomène de l'anticipation réflexe; **Bohn et Piéron**.

George Bohn's studies in animal behavior; **Yerkes, 1**.

Modifiability of behavior in *Hydroides dianthus*; **Yerkes, 2**.

Behavior of the lower organisms; **Jennings, 2**.

Method of regulation in behavior and in other fields; **Jennings, 4**.

Modifiability in behavior. I. Behavior of sea anemones; **Jennings, 3**.

Modifiability of behavior. 2. Factors determining direction and character of

movement in the earthworm; **Jennings, 1.**

The mental life of the domestic pigeon. An experimental study of certain emotional and associative processes; **Rouse.**

Comparative studies in the psychology of ants and of higher animals; **Wasmann, 1.**

Some reactions of caterpillars and moths; **Mayer and Soule.**

Reactions of the crayfish; **Bell.**

Behavior of *Gonionemus*; **Yerkes, 3.**

Behavior of *Gonionemus*; **Morse.**

Colour. Defensive Processes.

Coloration; **Prince.**

Les couleurs dans la nature; **Bohn, 3.**

Die Schutz- und Trutzfarben der Tiere; **Rothe.**

Albinismus (Leucismus) und Melanismus; **Seulen.**

Chromotropisme et son inversion artificielle; **Minkiewicz, 1.**

Phénomènes chromotropiques dans l'étude des problèmes biologiques et psycho-physiologiques; **Minkiewicz, 2.**

Biologische Untersuchungen Transkaspien (Russ.); **Faussek.**

Blutspritzende Thiere; **Rabes, 3.**

Mimikry; **Lorentz.**

AETIOLOGY AND VARIATION.

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General.

Station for experimental evolution at Cold Spring Harbor; **Davenport, 6.**

Evolution, selection, inheritance of characters; **Davenport, 5.**

Variation.

Variations de la matière vivante; **Kunstler & Gineste, 2.**

Variation et évolution; **Bohn, 2.**

Plasticity of organisms; **Metcalf, 2.**

Variations in animals and plants; **Jordan, 3.**

Theorie der Korrelation; **Ranke.**

Variation and correlation, homogamy; **Pearl, 1.**

Investigation by statistical methods of correlation in variation; **Pearl, 2.**

Subspecies, mutations and forms; **Cockerell, 2.**

Laws of variation and inheritance, *Lepidoptera*; **Crampton, 1.**

Is there determinate variation?; **Kellogg, 3.**

Variation in parthenogenetic insects, amphimixis; **Kellogg, 4.**

Variabilität der Verdauungsröhre; **Bakak.**

Megalospheric and microspheric forms, *Foraminifera*; **Lister.**

Legge della riduzione progressiva della variabilità; **Rosa.**

†Development and variation of *Pentremites conoideus* and the dwarfing of the fauna of the Salem limestone; **Smith, Essie Ahna.**

Mutation.

Mutation; **Davenport, 1; Ortmann, 4, 6, 7; Gager; Šimkevic; Vaughan.**

Mutation theory, *Mollusca*; **Baker.**

The experimental data of the mutation theory; **Harris.**

Variabilität oder Mutabilität. (Russ.) **Kusnezow, 2.**

Variation versus mutation; **Casey.**

(**Davenport, 7;** Evolution without mutation.)

Théorie des mutations en Zoologie (Polish); **Tur, 2.**

Discontinuous variation; **MacDougal, 2.**

Mutationserscheinungen; **Nussbaum, 2.**

Teratology.

Théorie de la conecrescence; **Tur, 1.**

Morphologie der Missbildungen; **Schwalbe, E.**

Monstruosités chez les animaux (Russ.); **Tarnani.**

Morphologie des rudiments squelettiques chez les monstres ectroméliens; **Salmon.**

Hyperdaktylie; **Inheldor.**

Monstruosités; organogénie et phylogénie; **Ernst**.

L'autoadaptation des embryons monstrueux et la tendance à l'anomalie; **Rabaud, 1**.

Origin of a polydactylous race, guinea-pig; **Castle, 4**.

Feuillet moyen dans un blastoderme de Canard sans embryon; **Weber**.

Heredity.

General.

Ueber Vererbung und die Notwendigkeit der Gründung einer Versuchsanstalt für Vererbungs- und Züchtungskunde; **Plate, 1**.

Der gegenwärtige Stand der Vererbungsfrage. Sammelreferat; **Teichmann**.

Experimental studies in heredity; **Castle & Mark**.

The analysis of racial descent in animals; **Montgomery, 3**. **Conklin, 2**.

Vererbungsproblem; **Perino**.

Vererbungsgesetze; **Correns**.

Hypothese der organischen Vererbung; **Hatschek**.

Sur l'hérédité; **Coutagne**.

Gesetze der Rassenmischung und die Konstitution des Keimplasmas; **Haacke**.

Vererbungsstudien; **Herbst, 1 & 2**.

Expériences sur l'hérédité; **Loisel, 7**.

Gedächtnis und Vererbung; **Meyer**.

Les forces physiques et l'hérédité dans la production des types organiques; **Perrier**.

Pathologie générale; **Le Dantec, 1**.

(**Le Dantec, 2**; Influences ancestrales.)

Heredity, and the origin of species; **MacDougall, 1**.

Einfluss des Alters der Eltern und der Keimzellen auf die Nachkömmlinge (ungarisch); **Abonyi**.

Heredity and variation; logical and biological; **Brooks**.

Vererbung und ihre materiellen Träger; **Prowazek, 2**.

Befruchtung und Vererbung; **Nussbaum, 1**.

Heredity, cytology of; **Farmer**.

Permanent forms, chromosomes; **Moore & Arnold**.

Die Vererbungsstanz; **Kassowitz**.

Vererbung u. Chromosomen; **Heider, 1 & 2**.

Transmissibilité des caractères acquis; hypothèse d'une centro-épigénèse; **Rignano, 1**.

Die centro-epigenetische Hypothese und der Einfluss des Centralnervensystems auf embryonale Entwicklung und Regeneration; **Rignano, 2**.

Semons „Mneme“ und die „Vererbung erworbener Eigenschaften“; **Weismann**.

Weismann's position; **Ortmann, 5**.

Vererbung erworbener Eigenschaften?; **Lange, L. J**.

L'ereditarietà dei caratteri acquisiti in Patologia ed in Medicina; **Bonardi**.

(**Verney**; Les caractères nouveaux et le darwinisme.)

Discoveries in heredity and their bearings on animal breeding; **Castle, 1**.

Predominance of female characters; **Herbst, 2**.

Mendelian.

Les lois de Mendel et l'hérédité; **Loisel, 1**.

Mendelschen Gesetze; **Lang**.

Exposition of Mendelism; **Darbishire**.

Exposition and bearing Mendelism; **Scourfield**.

Darwin and Mendel; **Doncaster**.

Mendelism, application to man; **Bateson**.

Mendel's laws, practical application; **Biffen**.

Mendelian results in animal breeding; **Davenport, 4**.

Mendel's law in relation to animal breeding; **Spillman, 1**.

Mendelian inheritance and the purity of the gametes; **Wilson, 1**.

Special cases.

Hérédité et mutation chez les Souris; **Cuénot**.

Les portées noires de deux Souris blanches; **Féré**.

Yellow mice and gametic purity; **Castle, 3.**

Mendelian polled cattle; **Spillman, 2.**

Inheritance of coat-colour, cattle; **Barrington & Pearson.**

Inheritance coat colour swine; **Spillman, 3.**

Hérédité des caractères du pelage chez les Lapins; **Loisel, 8.**

Heredity, hair-length, guinea-pig; **Castle & Forbes.**

Heredity combs of poultry; **Bateson & Punnett.**

L'hérédité de la pigmentation chez les Pigeons; **Loisel, 9.**

(**McCracken, 1**; Inheritance of dichromatism in *Lina lapponica*.)

Inheritance of dichromatism in *Lina* and *Gastroidea*; **McCracken, 2.**

Inheritance in poultry; **Davenport, 2.**

On the imperfection of Mendelian dominance in poultry hybrids; **Davenport, 3.**

The optic chiasma of teleosts: a study of inheritance; **Larabee.**

Heredity of webbed foot, pigeons; **Staples-Browne.**

Sex-ratio, inheritance of; **Heron.**

Inheritance of size of litter, sows; **Rommel & Phillips, 1 & 2.**

Inbreeding, cross-breeding, and sterility in *Drosophila*; **Castle, 2**; **Castle & Carpenter, etc.**

An exception to Mendel's law; **Noorduyn.**

Hybrids, Telegony.

Gesetz der Bastardbildungen (ungarisch); **Soós.**

Effets produits par l'hybridation sur la structure des organes génitaux; **Stephan, 2.**

Degré de développement des organes génitaux des Hybrides; **Stephan, 1.**

Modifications du syncytium nourricier dans le tube séminifère des hybrides; **Stephan, 3.**

Télégonie; **Loisel, 3.**

Evolution, Origin of Species.

Mechanik der Entwicklung der tierischen Lebewesen; **Wimmer.**

Palaeontology and biology; **Woodward.**

Evolution, geological aspect; **Lobley.**

Einführung in die Deszendenztheorie. Sechs Vorträge; **Schneider.**

Theory of organic evolution; **Metcalf, 1.**

Evolution et transformisme; **Mary et Mary.**

Animal evolution, exposition of **Headley.**

Der Perfectionismus (Russ.); **Fedorov.**

Mathematische Theorie der Evolution der Arten nach Prof. K. Pearson mit Anwendung auf die Untersuchungen von Prof. N. Kusnezow (Russ.); **Kolosow.**

Trial and error, factor in evolution; **Pillsbury.**

The vital fabric of descent; **Cook, 3.**

Darwinism; **Guenther, Conrad.**

Theories of evolution since Darwin; **Brown, 1.**

Origin of species, factors; **Jordan, 2.**

Origin of species; **Cook, 1.**

Gründe des Aussterbens der vorzeitlichen Tierwelt; **Frech, 1.**

Darwinismus und Lamarckismus. [Krit. Referat über A. Pauly.]; **Stieler.**

Gegensatz zwischen Darwins und Lamarcks Lehren vom organischen Zweckmässigen; **Pauly.**

Darwinismus kontra Mutationstheorie; **Plate, 3.**

(**Crampton, 2**; A general theory of adaptation and selection.)

Origin of species, evolution and speciation; **Cook, 2**; **Ortmann, 3.**

Isolation versus natural selection. Criticism of Jenkins; **Stejneger, 1.**

Origin of species, isolation in; **Ortmann, 2.**

Origin of species, isolation; **Allen, 4.**

Isolation and origin of species; **Berry, 1**; **Ortman, 1.**

Isolation by choice; **Lane.**

Origin of species by mutation or minute variation; **Merriam.**

An investigation of evolution in chrysomelid beetles of the genus *Leptinotarsa*; **Tower, 1.**

Experimental investigations of the production and preservation of new character races and species in insects; **Tower, 2.**

A three-fold development. A study in evolution; **Powers.**

Influence of physical conditions in the genesis of species; **Allen, 1.**

Climatic conditions and origin of species; **Cockerell, 1.**

Die physiologische Zuchtwahl im weiteren Sinne; **Dahl, 1.**

Speziesbegriff; **Bachmann.**

Ontogenetic and phylogenetic species; **Brown, 2.**

Heredity and subspecies; **Allen, 3.**

Species dividing into subspecies; **Latter, 1.**

Metazoa and their sex-cells, possible mode of origin; **Štolc.**

Origin of mammals; **Brown.**

Note on assortative mating; **Kellogg, 2.**

Natural selection; **Rainbow.**

Ecological adaptation and ecological selection; **Robertson.**

GEOGRAPHY. 0227

Seas are classed with the lands they are near: Mediterranean with Europe, and so on.

General.

Distribution géographique des animaux vivants et fossiles; **Trouessart.**

Die tiergeographischen Reiche und Regionen; **Arlt, 1.**

Biologie des Meeres. Rede . . .; **Hensen, 1 & 2,**

Plankton des Meeres; **Rauschenplat.**

Tiergeographie, Faunistik und Heimatkunde; **Speiser, 1.**

Beziehungen faunistischer Untersuchungen zur Tiergeographie und Erdgeschichte; **Speiser, 2.**

Anleitungen zur graphischen Terrain-darstellung; **Alte.**

Effetti della cenere del Vesuvio sugli organismi marini; **Lo Bianco, 1 & 2.**

Planktonforschung und Darwinismus; **Zacharias, 1.**

Bedeutung vertikaler Wasserbewegungen für die Produktion des Planktons; **Nathanson.**

Maeotische Stufe; **Andrussow.**

Die Bedeutung der alten Kontinente Russlands für die Frage von der Herkunft der Landwirbelthiere (Russ.); **Amalitzky.**

Periodizität, Variation und Verbreitung verschiedener Planktonwesen in südlichen Meeren; **Zacharias, 4.**

L'origine des faunes d'eau douce; **Pelseneer.**

Freshwater faunas, nature and origin; **Brady.**

Ueber Süßwasserplankton; **Wesenberg-Lund, 1.**

†The Russian Carboniferous and Permian compared with those of India and America; **Schuchert.**

Expeditions, Travels.

Catalogue des espèces de plantes et d'animaux observées dans le Plankton recueilli pendant les expéditions périodiques depuis le mois d'août 1902 jusqu'au mois de mai 1905; **Ostenfeld.**

Plankton-Expedition der Humboldt-Stiftung; **Hensen, 3.**

Zoologische Ergebnisse einer Untersuchungsfahrt des deutschen Seefischerei-Vereins nach der Bäreninsel und Westspitzbergen, ausgeführt im Sommer 1898 auf S. M. S. „Olga“; [Olga].

Murman-Expedition. (Russ.); **Jagodovskij.**

Wissenschaftlich praktische Murman-Expedition. Bericht über die Thätigkeit pro 1903 (Russ.); **Breitfuss, 2.**

Kurze Mitteilung über die Arbeiten der wissenschaftlichen Murmanexpedition i. J. 1905; **Breitfuss, 1.**

Kaspischen Expedition im J. 1904; **Knipowitsch, 2.**

„Valdivia“ Tiefsee-Expedition; **Chun,**

Exploration de l'Afrique orientale;
Rothschild, Maurice de.

Naturforscherfahrt durch Aegypten
und den Sudan; **Kammerer**.

Mission saharienne, notes sur la
faune; **Foureau**.

Rapport sur une mission scientifique
à la côte française des Somalis; **Gravier**,
1.

Gewässern des Ostens, Project einer
wissenschaftlich - gewerblichen Expe-
dition nach den (Russ.); **Schmidt**, 2.

Malay States; **Annandale & Robinson**.

Indian Ocean, Percy Sladen expe-
dition; **Gardiner**, 3.

Seychelles, Percy Sladen expedition;
Gardiner, 2.

Reise nach Java; Eindrücke einer
Naturforschers (Russ.); **Karavajev**.

Nova Guinea; **Wichmann**.

New Guinea; **Pratt**, A. E. and **Pratt**,
H.

General report of the expedition.
Hydrography, character of bottom,
bottom and pelagic fauna, sea tempera-
tures, specific gravities of waters, air
temperatures, winds, descriptions of the
Galapagos, Sala y Gomez, Easter island
and Manga Reva; **Agassiz**.

(**Richard**, 2; Campagne scientifique du
yacht Princesse Alice.)

Septième campagne scientifique de la
Princesse Alice; **Monaco**.

†Ziegler exploring expedition. Notes
on some Jurassic fossils from Franz
Josef Land; **Whitfield**.

Hudson's bay and Arctic islands,
"Neptune"; **Low**.

Expedition antarctique belge; [Bel-
gica].

Antarctic, "Scotia"; **Brown** and
others.

Faunae.

Palaearectic.

Die Wirbeltiere Europas mit Berück-
sichtigung der Faunen von Vorderasien
und Nordafrika; **Schmiedeknecht**.

Europe and Mediterranean.

Das Thierleben im Balsfjord; **Kiær**.

Plankton-Untersuchungen in norwe-
gischen Seen; **Huifeldt-Kaas**.

†Swedish post-glacial fauna; **Wittwe**.

Scotch and Danish lakes, a compara-
tive study; **Wesenberg-Lund**, 2 (Danish).

Liste des travaux relatifs à la Physio-
graphie de la Pologne, publiés en 1903,
1904 et 1905 (Polish); **Romer**, Eugeniusz.

Skizzen zur Naturbeschreibung des
Kaukasus; **Satunin**, 1.

Verzeichnis der im See Sadjew im
Gouv. Livland gesammelten Tieror-
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Plankton in den Seen der Ostalpen; **Brehm und Zederbauer, 2.**

Einige Planktonformen; **Breemen.**

Meeresfauna von Helgoland. Hrsg. v. d. biolog. Anstalt auf Helgoland. 15: Hartmeyer, Ascidien. Wiss. Meeresunters., Kiel, (N.F.), 8, Abt. Helgoland, 1906, (117–127).

Asia.

Reise durch die Tschetschna und den Dagestan (Russ.); **Dinnik.**

Transkaspien Insecta etc. Biologische Untersuchungen in (Russ.); **Faussek.**

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†Guide to the geology and paleontology of the Schoharie valley in eastern New York; **Grabau**.

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†Remarks on and descriptions of Jurassic fossils of the Black Hills; **Whitfield and Hovey**.

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†The Agate spring fossil quarry; **Peterson**.

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†Kinderhook faunal studies. 4. The fauna of the Glen park limestone; **Weller**.

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II. PROTOZOA

ARRANGED BY

II. M. WOODCOCK, D.Sc. (Lond.)

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N.B.—Titles in round brackets have already appeared in the *Zoological Record*; those in square brackets are in antecedent *Zoology Volumes of the Int. Cat. Sci. Lit.*

Adie, J. R. Note on a *Leucocytozoon* found in *Mus rattus* in the Punjab. *J. Trop. Med.*, London, **9**, 1906, (325–326).

Almera, D. J. 1. Descripción geológica de la comarca titulada “Plana de Vich.” [Geological description of the district known as “Plana de Vich.”] Madrid, Mem. Soc. Esp. Hist. Nat., **3**, VI, 1906, (423–468, 1 chart).

Almera, D. J. 2. Descripción geológica y génesis de la Plana de Vich. [Geological description and origin of the “Plana de Vich.”] Barcelona, Mem. R. Ac. Cs., **5**, XX, 1906, (56, 1 chart).

Apstein, C[arl]. *Pyocystis lunula* und ihre Fortpflanzung. *Wiss. Meeresunters.*, Kiel, Abt. Kiel, (N.F.), **9**, 1906, (261–271, 1 Taf.).

Athias, C. *vide* França, C.

Auerbach, M. Ein *Myxobolus* im Kopfe von *Gadus aeglefinus* L. *Zool. Anz.*, Leipzig, **30**, 1906, (568–570).

[**Averincev, S. V.**] Аверинцевъ, С. В. Прѣсноводный корненожки. **1.** [Die Süßwasser-Rhizopoden.] St. Petersburg, Trav. Soc. Nat., **36**, 2, 1906, (viii + 346, 5 pls.); deutsches Rés., (347–351).

Averintzev, S. V. 2. Rhizopodenstudien. (Systematische Bemerkungen.) Ann. biol. lacustre, Bruxelles, **1**, 1906, (321–326).

Averintzev, S. V. 3. Ueber einige neue Artengehäusetragender Rhizopoden des Süßwassers. Arch. Protistenkunde, Jena, **8**, 1906, (86–94).

Averintzev, S. V. 4. Die Struktur und die chemische Zusammensetzung der

Gehäuse bei den Süßwasserrhizopoden. Arch. Protistenkunde, Jena, **8**, 1906, (95–111).

Averintzev, S. V. 5. Beiträge zur Kenntnis der Süßwasserrhizopoden. (Vorl. Mitt.) Arch. Protistenkunde, Jena, **8**, 1906, (112–119).

——— *vide etiam* Averincev.

Balfour, A. 1. *Herpetomonas*-parasites in fleas. *J. Hygiene*, London, **6**, 1906, (652–655, pl. xiv).

Balfour, A. 2. A Haemogregarine of mammals and some notes on trypanosomiasis in the Anglo-Egyptian Soudan. *J. Trop. Med.*, London, **9**, 1906, (81–92, 3 pls.).

Balfour, A. 3. A Haemogregarine of mammals. Khartoum, Rep. Wellcome Res. Lab., **2**, 1906, (96–110, pls. xi–xiii).

Balfour, A. 4. A *Leucocytozoon* of mammals. Khartoum, Rep. Wellcome Res. Lab., **2**, 1906, (110–111, pl. xi).

Balfour, A. 5. Trypanosomiasis in the Anglo-Egyptian Soudan. Khartoum, Rep. Wellcome Res. Lab., **2**, 1906, (113–173, pls.).

Barbagallo, Pietro. 1. Sulla pretesa coltivazione delle Amebe parassite dell'intestino dell'uomo. Cagliari, Boll. Sc. nat., **1906**, (145–147).

Barbagallo, P. 2. Sulla pretesa coltivazione delle amebe parassite. Gazz. osp. clin., Milano, **27**, 1906, (380–381).

Battaglia, Mario. *Trypanosoma vespertilionis*. Roma, Ric. Lab. anat. norm., **12**, 1906, (5–51, 2 tav.).

Beattie, J. M. *Rhinosporidium kinealyi*, Minchin: a Sporozoon of the nasal mucous membrane. Brit. Med. J., London, **1906**, 2, (1575–1576).

(**Beauchamp, P. de.** Sur la fixation à l'état d'extension des animalcules contractiles et spécialement des Vorticelles. Paris, Bul. soc. zool., **29**, 1904, (26–27).)

Beede, J[oshua] W[illiam]. Foraminifera and Anthozoa. [In] Cumings, E. R. and others. Fauna of the Salem limestone. Indiana, Rep., Dept. Geol. Nat. Res., Indianapolis, **30**, (1905), 1906, (1201-1218, pl.).

Bernstein, J. M. Phagocytosis of malarial crescents. London, J. R. Microsc. Sci., **1906**, (415-418, pl. xvi).

Bettencourt, A. et França, C. 1. Sur un Trypanosome du blaireau (*Melestaxus* Schr.). Arch. Inst. R. Bact., Lisbonne, **1**, 1906, (73-75, pl. iii).

Bettencourt, A. et França, C. 2. Sur un Trypanosome de la chauve-souris. Arch. Inst. R. Bact., Lisbonne, **1**, 1906, (187-194, pl. iii).

Bettencourt, A. et França, C. 3. Note sur l'existence du *Trypanosoma euniculi* en Portugal. Arch. Inst. R. Bact., Lisbonne, **1**, 1906, (167-169).

Biland, I. Beitrag zur Frage der Pathogenität der Flagellaten. D. Arch. klin. Med. Leipzig, **86**, 1905, (275-293, 2 Taf.).

Billet, A. 1. Sur la forme hémogrégarinienne du parasite de la fièvre quarte. Paris, C.-R. soc. biol., **60**, 1906, (1146-1148).

Billet, A. 2. Protozoaires dans le bouton du Nil. Paris, C.-R. soc. biol., **60**, 1906, (1149-1151).

Billet, A. 3. Modification à la méthode de coloration de Romanowsky-Giemsa. Paris, C.-R. soc. biol., **61**, 1906, (753-754).

Billet, A. 4. Diagnose différentielle des formes annulaires des hématozoaires du paludisme. Paris, C.-R. soc. biol., **61**, 1906, (754-756); Réunion biologique, Marseille, **1906**, (64-66).

(**Blanchard, L. F.** Deux Grégarines parasites de Ténébrionides des maures. Paris, C.-R. Ass. franç. avanc. sci., **33**, (Grenoble, 1904), 1905, (923-928); Paris, Bull. franç. avanc. sci., **1904**, (269-270).)

Blanchard, R. Spirilles, Spirochètes et autres microorganismes à corps spiralé. Arch. parasit., Paris, **10**, 1906, (129-149).

Boinet. Note sur le microorganisme du Bouton d'Orient, à propos de la Communication de M. Billet. Paris, C.-R. soc. biol., **60**, 1906, (1155).

Borgert, A. 1. Die Tripyleen Radiolarien der Plankton-Expedition. *Tuscaroridae*. Ergeb. Plankton-Expedition Humboldt-Stiftung, Bd III, L. h. 2. Kiel u. Leipzig (Lipsius & Tischer), **1905**, (95-112, 1 pl.).

[**Borgert, A. 2.** Die Tripyleen Radiolarien der Plankton-Expedition. *Atlanticeillidae*. Ergeb. Plankton-Exped. Humboldt-Stiftung, Bd III, L. h. 3. Kiel u. Leipzig (Lipsius & Tischer), **1906**, (117-128, pl. x).]

Borgert, A. 3. Die Tripyleen Radiolarien der Plankton-Expedition. *Medusettidae*. Ergeb. Plankton-Exped. Humboldt-Stiftung, Bd III, L. h. 4. Kiel u. Leipzig (Lipsius & Tischer), **1906**, (133-192, 4 pls.).

Bosc, F. J. Les maladies bryocytiques (maladies à Protozoaires). 4^e Mémoire. La syphilis. Centralbl. Bakt., Jena, Abth. 1, **41**, Orig., 1906, (729-736, 807-811); **42**, Orig., (30-37, 114-119, 215-220, 314-320, 423-432, 509-512, 613-615, 705-713).

Bott, Karl. 1. Ueber die Fortpflanzung von *Pelomyxa palustris* (Greeff). Zool. Anz., Leipzig, **29**, 1906, (803-806).

Bott, K. 2. Ueber die Fortpflanzung von *Pelomyxa palustris* nebst Mitteilungen über ihren Bau. Arch. Protistenkunde, Jena, **8**, 1906, (120-158, 2 Taf.).

Bouet, G. Culture du Trypanosome de la grenouille (*Trypanosoma rotatorium*). Ann. Inst. Pasteur, Paris, **20**, 1906, (564-577, pl. 26).

Bougon. Les Infusoires parasites (suite). Microgr. prépar., Paris, **14**, 1906, (79-90, 217-222, 260-271, pls. 9, 24).

Boussac, Jean. 1. Sur la formation du réseau des Nummulites réticulées. Paris, C.-R. Acad. sci., **142**, 1906, (243-244).

Boussac, J. 2. Développement et morphologie de quelques Foraminifères de Priabona. Paris, Bul. soc. géol., sér. 4, **6**, 1906, (88-97, pls. i-iii).

Boussac, J. 3. Sur la formation du réseau des Nummulites réticulées. Paris, Bul. soc. géol., sér. 4, **6**, 1906, (98-100, pl. iii).

Boussac, J. 4. Le terrain nummulitique les Alpes méridionales. Paris, Bul. soc. géol., (sér. 4), **6**, 1906, (261-264).

Bowhill, T. Note on Haematozoa observed in a bat, and the occurrence of *Acanthia pipistrelli* Jenyns in South Africa. J. Hygiene, London, **6**, 1906, (246-247, pl. iii).

Brady, E. J. and Mulder, J. F. Foraminifera. [List]. Wombat, Geelong, **5**, 1902, (55-56).

Brandt, Karl. Die Tintinnodeen der Plankton-Expedition. (Ergebnisse der Plankton-Expedition der Humboldt-Stiftung. Bd III. L. a.) Kiel u. Leipzig (Lipsius & Tischer), 1906, (70 Taf. mit 33 S. Erklärungen). 33 cm. 54 M.

Brasil, Louis. 1. *Eleutheroschizon duboseqi*, Sporozoaire nouveau parasite des *Sceloporus armiger* O.-F. Müller. Arch. zool., Paris, (sér. 4), **4**, 1906, (Notes et Rev. xvii-xxii, av. fig.).

(**Brasil, L. 2.** Nouvelles recherches sur la reproduction des Grégaires monocystidées. Arch. zool., Paris, (sér. 4), **4**, 1905, (69-99, av. pl.).)

Brehm, V. und Zederbauer, E. Beobachtungen über das Plankton in den Seen der Ost-Alpen. Arch. Hydrobiol., Stuttgart, **1**, 1906, (469-495).

Breinl, A. Pathological Report on the histology of sleeping-sickness and trypanosomiasis, with a comparison of the changes found in animals infected with *T. gambiense* and other *Trypanosomata*. London, Proc. R. Soc., **77 (B)**, 1906, (233-236).

Bresslau, Ernst. Eine Anzahl Tintinnen aus dem Plankton der Bucht von Rio de Janeiro. Verh. D. zool. Ges., Leipzig, **16**, 1906, (260-261).

Brinkerhoff, W. R. and Tyzzer, E. E. Studies upon experimental variola and vaccinia in *Quadrumania*. Philippine J. Sci., Manila, **1**, 1906, (239-347, 8 pls.).

Brock, Hjalmar. 1. Bemerkungen über zwei Tripyleen-Arten aus dem Nordmeere. Zool. Anz., Leipzig, **29**, 1906, (657-659).

Brock, H. 2. Bemerkungen über den Formenkreis von *Peridinium depressum* s. lat. Nyt Mag. Naturv., Kristiania, **44**, 1906, (151-157).

Brodén, A. La trypanosomiase humaine. Bull. Soc. Belge, Bruxelles, **1906**, III, (181-187).

Bruce, D. 1. Sleeping-sickness in Uganda. London, Proc. R. Inst., **17**, 1906, (510-518, and maps).

Bruce, D. 2. The advance in our knowledge of the causation and methods of prevention of stock diseases in South Africa during the last ten years. London, Rep. Brit. Ass., **1905**, (533-547).

Brumpt, E. 1. Sur quelques espèces nouvelles de Trypanosomes parasites des poissons d'eau douce; leur mode d'évolution. Paris, C.-R. soc. biol., **60**, 1906, (160-162).

Brumpt, E. 2. Mode de transmission et évolution des Trypanosomes des poissons; description de quelques espèces de Trypanoplasmes des poissons d'eau douce; Trypanosome d'un crapaud africain. Paris, C.-R. soc. biol., **60**, 1906, (162-164).

Brumpt, E. 3. Expériences relatives au mode de transmission des Trypanosomes et des Trypanoplasmes par les Hirudinées. Paris, C.-R. soc. biol., **61**, 1906, (77-79).

Brumpt, E. 4. Rôle pathogène et mode de transmission du *Trypanosoma inopinatum* Ed. et Et. Sargent. Mode d'inoculation d'autres Trypanosomes. Paris, C.-R. soc. biol., **61**, 1906, (167-169).

(**Brumpt, E. 5.** Trypanosomes et Trypanosomoses. Rev. sci., Paris, ser. 5, **4**, 1905, (321-332).)

Brunelli, G. Sulla distruzione degli oociti nelle regine dei Termitidi infette da Protozoi ed altre ricerche sull'ovario degli Insetti. Roma, Rend. Acc. Lincei, **15**, (1), 1906, (55-62).

Brzezinski, J. *Myxomonas betae*, pasorzyt buraka. (*Myxomonas betae*, parasite des betteraves.) Kraków, Bull. Intern. Acad., **1906**, (139-202, pls. ii-vi).

Bütschli, O. 1. Ueber die chemische Natur der Skeletsubstanz der Acantharia. Zool. Anz., Leipzig, **30**, 1906, (784-789).

Bütschli, O. 2. Beiträge zur Kenntnis des Paramylons. Arch. Protistenkunde, Jena, **7**, 1906, (197-228, 1 Taf.).

Calkins, Gary N. 1. The Protozoan life-cycle. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **11**, 1906, (229-244).

Calkins, G. N. 2. The Protozoan life-cycle. Science, New York, N.Y., (N. Ser.), **23**, 1906, (367-370).

Calkins, G. N. 3. Life-cycle of the Protozoa. Nature, London, **74**, 1906, (552).

Calkins, G. N. 4. *Paramaecium aurelia* and mutation. Science, New York, N.Y., (N. Ser.), **23**, 1906, (664). [Abstract] New York, N.Y., Proc. Soc. Exp. Biol. Med., **3**, 1906, (48-49).

Calkins, G. N. 5. Pathogenic Protozoa. Pop. Sci. Mon., New York, N.Y., **69**, 1906, (409-416).

Calkins, G. N. 6. Rejuvenescence in protozoa. [Abstract] New York, N.Y., Proc. Soc. Exp. Biol. Med., **2**, 1905, (60).

(Calkins, G. N. 7. Studies on the life history of Protozoa. IV. Death of the A series. Conclusions. J. Exp. Zool., Baltimore, Md., **1**, 1904, (423-461, 3 pl., 3 text fig.).)

Camusat, J. Épuration des eaux potables. Défense contre l'envahissement des réservoirs par les Algues et les Protozoaires, en Amérique. Ann. Bul. soc. hist. nat., **18**, 1905, (C.-R. 34-45).

Car, Lazar. Das Mikroplankton der Seen des Karstes. Ann. Biol. lacustre, Bruxelles, **1**, 1906, (50-56).

Cardamati, J. P. and Diamesi, L. Die letzte Malariaepidemie in Attika und Böotien. Centralbl. Bakt., Jena, Abth. I, **42**, Orig., 1906, (527-532, 1 pl.).

Cardamati, J. P. vide Pezopoulo, N.

Carpano, M. vide Martoglio, F.

Cassetti, M. Osservazioni geologiche sul Monte Sirente e suoi dintorni (Abruzzo aquilano). Roma, Boll. Comitato Geol., (ser. 4), **7**, 1906, (41-60, 1 carta).

Caullery, Maurice. Sur un Amœbien parasite des embryons de *Peltoaster curvatus* Kossm. Paris, C.-R. soc. biol., **61** 1906, (266-268).

Caullery, M. et Chappellier, A. *Anurosporidium pelseneeri* n. g., n. sp., Haplosporidie infectant les sporocystes d'un Trématode parasite de *Donax trunculus* L. Paris, C.-R. soc. biol., **60**, 1906, (325-328, 4 figs.).

(Caullery, M. et Mesnil, Félix. Recherches sur les Haplosporidies. Arch.

zool., Paris, (ser. 4), **4**, 1905, (101-180, pls. xi-xiii).)

Cazalbou, L. Expériences d'infection de trypanosomiase par des *Glossina palpalis* infectées naturellement. Paris, C.-R. Acad. sci., **143**, 1906, (435-437).

Caziot, E. vide Maury, E.

Cépède, Casimir. 1. Sur une Microsporidie nouvelle, *Pleistophora macrospora*, parasite des Loches franches du Dauphiné. Paris, C.-R. Acad. sci., **142**, 1906, (56-58); Paris, C.-R. soc. biol., **60**, 1906, (13-15).

Cépède, C. 2. Sur la prétendue immunité des *Cobitis* à l'égard des infections myxosporidiennes. Paris, C.-R. soc. biol., **60**, 1906, (15-16).

Cépède, C. 3. *Myxidium giardi* Cépède, et la prétendue immunité des anguilles à l'égard des infections myxosporidiennes. Paris, C.-R. soc. biol., **60**, 1906, (170-173).

(Cépède, C. 4. Myxosporidies des poissons des Alpes françaises. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e partie), 1905, (905-913).)

Certes, A. Microbiologie. Vitalité des germes des organismes microscopiques des eaux douces et salées. Roma, Mem. Acc. Nuovi Lincei, **21**, 1903, (259-287).

[Chainskij, A. I.] Хаинскій, А. И. Физиологическія наблюденія надъ парамеціями. [Physiologische Beobachtungen an Paramaecien.] Varšava, Izv. Univ., **1906**, 5-6, (1-88, mit 35 Fig. i. T.).

Chappellier, Albert vide Caullery, M.

Chapman, Frederick. On some Foraminifera and Ostracoda obtained off Great Barrier Island, New Zealand. Wellington, Trans. N. Zeal. Inst., **38**, 1906, (77-112, pl. iii).

Chatton, Edouard. 1. Les Blastodinides, ordre nouveau de Dinoflagellés parasites. Paris, C.-R. Acad. sci., **143**, 1906, (981-983).

Chatton, E. 2. Sur la biologie, la spécification et la position systématique des *Amœbidium*. Arch. zool., Paris, (ser. 4), **5**, 1906, (Notes et revue, xviii-xxx).

Chatton, E. 3. Sur la morphologie et l'évolution de l'*Amœbidium reticulata*,

nouvelle espèce commensale des Daphnies. Arch. zool., Paris, (sér. 4), **5**, 1906, (Notes et revue, xxxiii-xxxviii).

Checchia-Rispoli, G. 1. Di alcune Lepidocline eoceniche della Sicilia. Riv. ital. Paleont., Perugia, **12**, 1906, (86-92, pl. iii).

Checchia-Rispoli, G. 2. Sull'Eocene di Capo S. Andrea presso Taormina. Roma, Rend. Acc. Lincei, **15**, 2, 1906, (325-327).

Christophers, S. R. *Leucocytozoon canis*. Sci. Mem. Med. Ind., Calcutta, **26**, 1906, (16, 1 pl.).

Cisneros, D. J., de. Apuntes para el estudio geológico de la provincia de Alicante. [Notes for the geological study of the province of Alicante.] Madrid, Bol. Soc. Esp. Hist. Nat., **6**, 1906, (151-161).

Clark, W. B. Systematic Palaeontology, Pleistocene. *Protozoa*. Maryland Geol. Surv., Baltimore, (Pliocene and Pleistocene), **1906**, (214-216, pl. lvi).

Clegg, M. T. *vide* Musgrave, W. E.

Cleland, J. B. The Haemogregarine of mammals (*H. balfouri*) and some notes on rats. J. Trop. Med., London, **9**, 1906, (296-297).

Clevisch, Anton. Die Ichthyophthiriasis. D. tierärztl. Wochenschr., Hannover, **13**, 1905, (183-184).

Collin, B. Note préliminaire sur un Acinétié nouveau, *Dendrosomides paguri* n. g. n. sp. Arch. zool., Paris, (sér. 4), **5**, 1905, (Notes et revue, lxiv-lxvi).

Comte, C. *vide* Nicolle, C.

Cori, C. J. Ueber die Meeresverschleimung im Golfe von Triest während des Sommers von 1905. Arch. Hydrobiol., Stuttgart, **1**, 1906, (385-391).

Craig, C. F. Observations upon malaria: latent infection in natives of the Philippine islands—Intracorpuseular conjugation. Philippine J. Sci., Manila, **1**, 1906, (523-531).

Cushman, Joseph A. Fresh-water Rhizopods of Nantucket. Amer. Nat., Boston, Mass., **40**, 1906, (371-373).

Cushman, J. and Henderson, William P. A preliminary study of the finer structure of *Arcella*. Amer. Nat., Boston, Mass., **40**, 1906, (797-802).

[Daday, Jenő. 1. Turkesztani édesvízi mikroskopi állatok. [Mikroskopische Süßwasserthiere aus Turkestan.] Math. Term. Ért., Budapest, **21**, 1903, (322-357).]

Daday, J. 2. Édesvízi mikroskopi állatok Mongoliából. [Mikroskopische Süßwassertiere aus der Mongolei.] Math. Term. Ért., Budapest, **24**, 1906, (34-77).

[Daday, J. 3. Halakban előskódo új ázalékállatka. [New Infusoria parasitic in fishes.] Math. Term. Ért., Budapest, **23**, 1905, (555-560).]

[Daday, J. 4. Paraguay mikrofaunájának alaprajza. [Sketch of the microfauna of Paraguay.] Math. Term. Ért., Budapest, **23**, 1905, (312-355).]

Dakin, W. J. Report on the Foraminifera collected by Prof. Herdman at Ceylon in 1902. Rep. Ceylon Pearl Oyster Fish., **5**, 1906, (225-242, 1 pl.).

Dellinger, Oris P. Locomotion of Amœbae and allied forms. J. Exp. Zool., Baltimore, Md., **3**, 1906, (337-358, 2 pls.).

Deprat, J. Les dépôts éocènes néocalédoniens; leur analogie avec ceux de la région de la sorde. Description de deux espèces nouvelles d'Orbitoïdes. Paris, Bul. soc. géol., sér. 4, **5**, 1905, (485-516, pls. xvi-xix).

Diamesi, L. *vide* Cardamati, J.

Dogiel, V. 1. Beiträge zur Kenntniss der Gregarinen. I. *Cystobia churidotae* nov. sp. II. *Hyalosphaera gregarinicola* nov. gen. nova spec. Arch. Protistenkunde, Jena, **7**, 1906, (106-130, 1 Taf.).

Dogiel, V. 2. Beiträge zur Kenntniss der Peridineen. Mitt. zool. Stat. Neapel, Berlin, **18**, 1906, (1-45, 2 Taf.).

Douvillé, Henri. 1. Sur la structure du test dans les Fusulines. Paris, C.-R. Acad. sci., **143**, 1906, (258-261).

Douville, H. 2. Comparaison des divers bassins nummulitiques. Paris, Bul. soc. géol., sér. 4, **5**, 1905, (657-659).

Douvillé, H. 3. Évolution des Nummulites dans les différents bassins de l'Europe occidentale. Paris, Bul. soc. géol., sér. 4, **6**, 1906, (13-42).

Douvillé, H. 4. Observations sur quelques travaux relatifs au genre *Lepidocyclus*. Feuille jeunes naturalistes, Paris, **36**, 1906, (169-174).

(Douvillé, H. 5. Sur la structure des Orbitolines. Paris, Bul. soc. géol., sér. 4, **4**, 1904, (653-661, pl.).)

(Douvillé, H. 6. Mission de Morgan en Perse. Partie IV. Paléontologie. Mollusques fossiles, Paris (E. Leroux), 1904, (380, pl.). 28 cm.)

Douvillé, R. 1. À propos des "Lépidocyclines éocènes." Paris, Bul. soc. géol., sér. 4, **6**, 1906, (445-446).

Douvillé, R. 2. Paléontologie de Madagascar. II. Sur quelques gisements Nummulitiques de Madagascar. Ann. Paléont., Paris, **1**, 1906, (61-68, 1 pl.).

Douvillé, R. et Prever, P. L. La succession des faunes à Lépidocyclines dans le bassin du Piémont. Paris, Bul. soc. géol., sér. 4, **5**, 1905, (861-863).

Duboscq, O. *vide* Léger, L.

Durme, P. van. Contribution à l'étude des trypanosomoses. Répartition des Trypanosomes dans les organes. Arch. parasit., Paris, **10**, 1906, (160-170).

Dutton, J. E., Todd, J. L. (the late) and Tobey, E. N. 1. Concerning certain parasitic Protozoa observed in Africa. Liverpool, Mem. Sch. Trop. Med., **20**, 1906, (87-97, pls. 8, 9).

Dutton, J. E., Todd, J. L. (the late) and Tobey, E. N. 2. A comparison between the Trypanosomes present by day and by night in the peripheral blood of cases of human trypanosomosis. Liverpool, Mem. Sch. Trop. Med., **20**, 1906, (59-64, chart).

Dutton, J. E., Todd, J. L. (the late) and Tobey, E. N. 3. Concerning Haemoflagellates of an African fish (*Clarias angolensis*). J. Med. Res., Boston, Mass., N. Ser., **10**, 1906, (491-495, pl.).

Edmondson, Charles Howard. The Protozoa of Iowa. A study of species known to occur in the waters of this state. [Thesis, Ph.D., University of

Iowa.] Davenport, Iowa, Proc. Acad. Sci., **11**, 1906, (1 l. + 1-121 + 29 l., pls.). 24 cm.

Ehrnroth, Ernst. Zur Frage der Pathogenität des *Balantidium coli*. Zs. klin. Med., Berlin, **49**, 1903, (321-331).

Ellermann, V. Ueber den Befund von Rhizopoden bei zwei Fällen von Poliomyelitis acuta. Centralbl. Bakt., Jena, Abt. I, **40**, Originale, 1906, (648-653, 1 Taf.).

Enriques, P. Sulle condizioni che determinano la conjugazione negli Infusori, ed il differenziamento sessuale nei Vorticellidi. Bologna (Stab. tipo. lit. A. Noè), 1906, (60, 3 pls.). Svo.

Entz, Géza, sen. 1. A legegyszerűbb állat. [Das einfachste Tier.] Term. Közl., Budapest, **38**, 1906, (257-276).

Entz, G., sen. 2. Az állati szervezet és életalapvonalai. A legegyszerűbb állat. [Grundzüge des tierischen Organismus und Lebens. Das einfachste Tier.] Budapest, 1906, (38).

Fantham, H. B. *Piroplasma muris* Fant. from the blood of the white rat, with remarks on the genus *Piroplasma*. Q. J. Microsc. Sci., London, **50**, 1906, (493-516, 1 pl.).

Fauré-Frémiet, Emmanuel. 1. Sur la structure intime du protoplasma chez les Protozoaires. Paris, C.-R. Acad. sci., **142**, 1906, (58-60).

Fauré-Frémiet, E. 2. L'*Epistylis gasterostei* (sp. nov.) et l'origine des Urcéolaires. Paris, C.-R. soc. biol., **60**, 1906, (347-349).

Fauré-Frémiet, E. 3. À propos de la structure du protoplasma chez les Protozoaires. Paris, C.-R. soc. biol., **60**, 1906, (339-391).

Fauré-Frémiet, E. 4. Phénomènes protoplasmiques dus à l'anesthésie chez *Glaucoma pyriformis*. Paris, C.-R. soc. biol., **60**, 1906, (491-493).

Fauré-Frémiet, E. 5. La puissance de la frange adorale des *Vorticellidae* et son utilisation. Paris, C.-R. soc. biol., **60**, 1906, (772-774).

Fauré-Frémiet, E. 6. Sur les bols alimentaires des *Vorticellidae*. Paris, C.-R. soc. biol., **60**, 1906, (826-827).

Fauré-Frémiet, E. 7. Sur une nouvelle Vorticellide, *Opisthnecta henneguyi*. Paris, C.-R. soc. biol., **60**, 1906, (922-923).

Fauré-Frémiet, E. 8. Sur l'*Ophrydium versatile*. Paris, C.-R. soc. biol., **61**, 1906, (46-48).

Fauré-Frémiet, E. 9. Le *Tintinnoidium inquilinum* Ehrb. (*Nematopoda cylindrica* R. Sand). Paris, C.-R. soc. biol., **61**, 1906, (395-397).

Fauré-Frémiet, E. 10. Le commensalisme spécifique chez les Vorticelles d'eau douce. Paris, C.-R. soc. biol., **61**, 1906, (456-458).

Fauré-Frémiet, E. 11. Le commensalisme des *Opercularia*. Les facteurs de la spécificité. Paris, C.-R. soc. biol., **61**, 1906, (583-585).

Fauré-Frémiet, E. 12. Le commensalisme des *Opercularia*. Le facteur mouvement. Paris, C.-R. soc. biol., **61**, 1906, (514-515).

Fauré-Frémiet, E. 13. Variation expérimentale chez *Vorticella microstoma*. Bul. sci. France Belgique, Paris, **40**, 1906, (271-280).

Fauré-Frémiet, E. 14. Sur un cas de monstruosité chez *Stentor ecaruleus*. Arch. anat. Microsc., Paris, **8**, 1906, (660-666).

Fauré-Frémiet, E. 15. Le *Glaucoma pyriformis* et l'organisation de la substance vivante. Nancy, C.-R. ass. anat., **8**, 1906, (120-127, fig.).

(Fauré-Frémiet, E. 16. Note sur un groupe nouveau d'*Opercularia*. Arch. anat. microsc., Paris, **7**, 1904, (181-197, figg.).

Fornasini, Carlo. 1. Illustrazione di specie orbignyane di Miliolidi istituite nel 1826. Bologna, Mem. Acc. sc., Ser. 6, **2**, 1905, (59-70, 4 tav.).

Fornasini, C. 2. Illustrazione di specie orbignyane di Rotalidi istituite nel 1826. Bologna, Mem. Acc. sc., Ser. 6, **3**, 1906, (61-70, 4 tav.).

Forti, A. Alcuni appunti sulla composizione del plancton estivo dell'Estanque grande nel parco del Buen Retiro in Madrid. Modena, Atti. soc. nat. mat., **1906**, (120-126).

Franca, C. vide Bettencourt, A.

Franca, C. et Athias, C. 1. Sur les phénomènes de division du *Trypanosoma rotatorium*. Paris, C.-R. soc. biol., **60**, 1906, (1108-1109).

Franca, C. et Athias, C. 2. Recherches sur les Trypanosomes des Amphibiens. I. Les Trypanosomes de la *Rana esculenta*. Arch. Inst. R. Bact., Lisbonne, **1**, 1906, (127-165, pls. iii, iv).

Galli-Valerio, B. Notes de parasitologie. B. Parasites animaux. Centralbl. Bakt., Jena, Abth. 1, **41**, Orig., 1906, (745-749).

Gauducheau, A. An experimental reproduction of amoebic dysentery by intravenous inoculation of pus from a hepatic abscess. J. Trop. med., London, **9**, 1906, (52-53).

Gerber, E. Beiträge zur Geologie der östlichen Kienthaleralpen. N. Denkschr. Schweiz. Ges. Natw., Zürich, **40**, 1906, (20-88, 3 pls.).

Gerould, John H[iram]. *Amoeba blattae* and amoeboid motion. Science, New York, N.Y., N. Ser., **23**, 1906, (707-710).

Gerrard, P. N. On a Protozoan parasite found in the polymorphonuclear leucocytes of a dog. J. Hygiene, London, **6**, 1906, (229-230).

Gillot, Victor. De la persistante vitalité de l'hématozoaire de Laveran dans le cadavre humain. Paris, C.-R. soc. biol., **61**, 1906, (387-388).

Gineste, Ch. vide Kunstler, J.

Göbel, Oswald. Le nagana chez la poule. Paris, C.-R. soc. biol., **61**, 1906, (321-323).

Gonder, Richard. *Achromaticus vesperuginis*. (Dionisi.) Berlin, Arb. Gesundheitsamt, **24**, 1906, (220-226, pl. xxiv).

Gough, G. C. 1. The Foraminifera of Larne Lough and District. Dublin, Fish. Ireland, Sci. Invest., **3**, 1905, (1906), (10, 1 pl.).

Gough, G. C. 2. The Bottom Deposits of Larne Lough. Dublin, Fish. Ireland, Sci. Invest., **4**, 1906, (12).

Graham-Smith, G. S. v. Nuttall, G. H.

Gray, A. C. vide Minchin, E. A.

Gürich, G. Les Spongiostromides du Viséen de la Province de Namur. Mem. Mus. Belgique, Bruxelles, **3**, No. 1, 1906, (55, 23 pls.).

Häcker, Valentin. 1. Zur Kenntnis der Challengeriden. Vierte Mitteilung über die Tripyleen-Ausbeute der deutschen Tiefsee-Expedition. Arch. Protistenkunde, Jena, **7**, 1906, (259-306, 1 Taf.).

Häcker, V. 2. Zur Kenntnis der Castanelliden und Porospathiden. 5. Mitteilung über die Tripyleen der „Valdivia“-Ausbeute. Arch. Protistenkunde, Jena, **8**, 1906, (52-65).

Häcker, V. 3. Ueber die Mittel der Formbildung im Radiolarienkörper. (6. Mitt. über die Tripyleen der „Valdivia“-Ausbeute.) Verh. D. zool. Ges., Leipzig, **16**, 1906, (31-51).

Häcker, V. 4. Ueber einige grosse Tiefsee-Radiolarien. Siebente Mitteilung über die Radiolarien der „Valdivia“-Ausbeute. Zool. Anz., Leipzig, **30**, 1906, (878-895).

Hartog, M. The Protozoa. [In] "Cambridge Natural History," edited by S. F. Harmer and A. E. Shipley. Vol. 1, London (MacMillan & Co.), 1906, (1-162).

Haselbach, Hans. Einiges über die Augen der Tiere. Carinthia II, Klagenfurt, **94**, 1904, (133-140, 2 Taf.).

Haupt, O. Ein kreideähnlicher, wahrscheinlich jungtertiärer Kalkmergel aus Kaiser-Wilhelmsland (Deutsch-Neu-Guinea). Berlin, Zs. D. geol. Ges., **57**, 1905, Monatsber., (565-569).

Henderson, William P. *vide* Cushman, J. A.

Hensen, [Victor]. Ueber verständiges Tun niederer Tiere [Radiolarien]. Kiel, Schr. natw. Ver., **13**, 1906, (276-277).

Hesse, Edmund. 1. Monocystidée nouvelle de *Pheretima*. Paris, Bull. ass. franç. avanc. sci., **1904**, (268).

(Hesse, E. 2. Myxosporidies nouvelles des Insectes. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e partie), 1905, (917-919); Paris, Bull. ass. franç. avanc. sci., **1904**, (168).)

(Hesse, E. 3. Sur un nouveau *Myxocystis* des Oligochètes et sur la place du genre *Myxocystis* Mrazek dans la systématique. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e

partie), **1905**, (914-916); Paris, Bull. ass. franç. avanc. sci., **1904**, (268).)

Hesse, E. *vide* Léger, L.

Hirst, A. S. [On a new Haemosporidian from the blood of an African stork (*Leptoptilus crumeniferus*).] London, Proc. Zool. Soc., **1905**, 2, (297).

Huitfeldt-Kaas, Hartvig. Plankton-Untersuchungen in norwegischen Seen. (Norw.) Kristiania (Cammarmeyers bogh.), 1906, (iv + 199, 3 Taf. u. 9 Tab.); deutsches Rés. (147-197). 23 cm. 3,00 Kr.

Hunt, E. H. Flagellated Protozoa in a perineal abscess. Lancet, London, **1903**, 2, (216).

Issel, Raffaele. Intorno alla struttura ed alla biologia dell' infusorio *Trichodinopsis paradoxa* Clap. et Lachm. Genova, Ann. Museo Civ. st. nat., Ser. 3, **2**, 1905-6, (334-357, 2 tav.).

Jacob, C. Sur les couches supérieures à Orbitolines des montagnes de Reucurel et du Vercors. Paris, Bul. Soc. géol., sér. 4, **5**, 1905, (686-688).

(Jarvis, May M. On the fossil genus *Porocystis*, Cragin. Austin, Cont. Zool. Lab. Univ. Tex., No. 70 in Wood's Holl, Mass., Mar. Biol. Lab. Bull., **9**, 1905, (388-390).)

Jennings, Herbert] S[pencer]. The behaviour of *Paramaecium*. Additional features and general reactions. J. Comp. Neur., Granville, Ohio, **14**, 1901, (441-510).

Jennings, H. S. *vide* Lingard, A.

(Jensen, H[arald] I[ngemann]. Contribution to a knowledge of Australian Foraminifera. I. Sydney, N.S.W., Proc. Linn. Soc., **29**, 1905, (810-831, 1 pl.).)

Kaestner, Paul]. 1. Die Trypanosomen als Parasiten und Krankheitserreger. [Sammelreferat.] Zs. Infektkrankh., Berlin, **1**, 1906, (395-408, 475-485).

Kaestner, P. 2. Die tierpathogenen Protozoen. Berlin (R. Schoetz), 1906, (vii + 161). 25 cm. 5 M.

Karsten, G. Das Phytoplankton des Atlantischen Oceans nach dem Material der deutschen Tiefsee-Expedition 1898-1899. Wiss. Ergebn. deutsch. Tiefsee-Expedition (herausg. von C. Chun), Jena, II, **2**, ii, 1906, (139-219, 15 pls.).

(Kemna, A. Morphologie des Foraminifères arénacés. Bruxelles (P. Weissenbruch), 1904, (8vo., 33, 1 fr.).)

Kepner, William A. 1. Notes on the genus *Leptophrys* (synonym for species of *Vampyrella*). Amer. Nat., Boston, Mass., **40**, 1906, (335-342).

(Kepner, W. A. **2.** *Paulinella chromatophora*. (Note on the habits, structure and American occurrence of this Protozoan.) Wood's Holl, Mass., Mar. Biol. Lab. Bull., **9**, 1905, (128-129).)

Keysseltz, G. Generations- und Wirtswechsel von *Trypanoplasma borreli* Laveran et Mesnil. Arch. Protistenkunde, Jena, **7**, 1906, (1-74).

Kiær, Hans. 1. Thalamophora from the bottom samples and the mud from the surface of the ice in the North Polar sea. The Norw. North Polar Exp. Scientific results, ed. by F. Nansen, Kristiania (Jacob Dybwad), Vol. **5**, (No. XIV, Appendix II), 1906, (58-62).

Kiær, H. 2. Notiz über die Foraminiferen des Aralsees. Taschent, Izv. Turk. Otd. Russ. Geogr. Obsč., **4**, 7, 1906, (27-29).

Kleine, F[riedrich] K[arl]. Kultivierungsversuch der Hundepiroplasmen. Zs. Hyg., Leipzig, **54**, 1906, (10-16, 2 Taf.).

Kleine, F. K. und Möllers, B[ernhard]. Ein für *Trypanosoma brucei* spezifisches Serum und seine Einwirkung auf *Trypanosoma gambiense*. Zs. Hyg., Leipzig, **52**, 1906, (228-237).

Knapp, R. S. vide Novy, F. G.

Koch, Robert. 1. Beiträge zur Entwicklungsgeschichte der Piroplasmen. Zs. Hyg., Leipzig, **54**, 1906, (1-9, 3 Taf.).

Koch, R. 2. Preliminary statement on the results of a voyage of investigation to East Africa. (Translated by P. Falcke.) J. Trop. Med., London, **9**, 1906, (43-45, 75-76, 104-105, 137-138, 1 pl.).

Kofoed, Charles Atwood. 1. Dinoflagellata of the San Diego region. 1. On *Heterodinium*, a new genus of the *Peridinidae*. [Contributions from the Laboratory of the Marine Biological Association of San Diego, No. 8.] Berkeley, Univ. Cal. Pub., Zool., **2**, 1906, (341-368, pls. 17-19).

Kofoed, C. A. 2. Dinoflagellata of the San Diego region. 2. On *Triposolenia*,

a new genus of the *Dinophysidae*. [Contributions from the Laboratory of the Marine Biological Association of San Diego, No. **13**.] Berkeley, Univ. Cal. Pub., Zool., **3**, 1906, (93-116, with pl.).

Kofoed, C. A. 3. A discussion of species characters in *Triposolenia*. [Contributions from the Laboratory of the Marine Biological Association of San Diego, No. **13**.] Berkeley, Univ. Cal. Pub., Zool., **3**, 1906, (117-126).

Kofoed, C. A. 4. On the significance of the asymmetry in *Triposolenia*. [Contributions from the Laboratory of the Marine Biological Association of San Diego, No. **13**.] Berkeley, Univ. Cal. Pub., Zool., **3**, 1906, (127-133, with text fig.).

Kofoed, C. A. 5. On the structure of *Gonyaulax triacantha* Jörg. Zool. Anz., Leipzig, **30**, 1906, (102-105).

Kolle, W. and Wasserman, A. (Unter Mitwirkung von R. Abel u. A.). Handbuch der pathogenen Mikroorganismen. Ergänzungsbd. H. 1, Jena (G. Fischer), 1906, (iii + 384, 7 pls.).

Korschelt, E[ugen]. Ueber eine eigenartige Form der Fortpflanzung bei einem Wurzelfüßer, *Pelomyxa palustris*. Natw. Rdsch., Braunschweig, **21**, 1906, (503-504).

Kossel, H[ermann]. Protozoen als Krankheitserreger. Umschau, Frankfurt a. M., **10**, 1906, (481-485).

Krause, F. Planktonproben aus ost- und westpreussischen Seen. Arch. Hydrobiol., Stuttgart, **2**, 1906, (218-230).

Krause, Paul. Ueber Infusorien im Typhusstuhle nebst Beschreibung einer bisher noch nicht beobachteten Art (*Balantidium giganteum*). D. Arch. klin. Med., Leipzig, **86**, 1906, (442-455).

Krumbeck, L. Beiträge zur Geologie und Palaeontologie von Tripolis. Palaeontographica, Stuttgart, **53**, 1906, (51-136, pls. vii-ix).

Kudicke. Ein Beitrag zur Kenntnis der menschlichen Trypanosomakrankheit. Centralbl. Bakt., Jena, Abt. I, **41**, Originale, 1906, (72-74, 1 Taf.).

[**Kulagin, N. M.**] Кулагинъ, Н. М. Жизнь безъ кислорода. [Das Leben ohne Sauerstoff.] Jestestv. i. geogr., Moskva, **11**, 3, 1906, (1-11).

Kunstler, J. 1. À propos de la constitution intime du protoplasma des Protozoaires. Paris, C.-R. soc. biol., **60**, 1906, (314-315).

Kunstler, J. 2. Noyaux uni- et pluri-sphérulaires. Paris, C.-R. soc. biol., **60**, 1906, (315-316).

Kunstler, J. 3. La formation des membranes périvacuolaires chez les Infusoires ciliés. Paris, C.-R. soc. biol., **60**, 1906, (548-549).

Kunstler, J. et Gineste, C. 1. Modifications de constitution de la substance vivante consécutives aux variations de milieu. Paris, C.-R. soc. biol., **60**, 1906, (813-814).

Kunstler, J. et Gineste, C. 2. L'orientation du corps des Opalines. Paris, C.-R. soc. biol., **61**, 1906, (136).

Kunstler, J. et Gineste, C. 3. Contribution à la morphologie générale des Protozoaires supérieurs. Paris, C.-R. Acad. sci., **142**, 1906, (294-296).

Kunstler, J. et Gineste, C. 4. Les cultures de Protozoaires et les variations de la matière vivante. Paris, C.-R. Acad. sci., **143**, 1906, (365-367, 2 figg.).

Kunstler, J. et Gineste, C. 5. Les sphérules chromophiles chez les Protozoaires. Nancy, C.-R. soc. anat., **8**, 1906, (3-5).

(Kunstler, J. et Gineste, C. 6. Les sphérules trophoplasmiques des Infusoires ciliés. Paris, C.-R. Acad. sci., **141**, 1905, (907-908).)

Kunze, Wilhelm *vide* Schuberg, A.

Laackmann, Hans. Ungeschlechtliche und geschlechtliche Fortpflanzung der Tintinnen. Zool. Anz., Leipzig, **30**, 1906, (440-443).

Lacómmie, L. *vide* Roux, G.

Lago (Dal), D. Note sul Flysch del Vicentino. Padova, Atti Acc. ven.-trent., N. Ser., **2**, 1906 ? (207-212).

Lauterborn, Robert. 1. Eine neue Chrysomonadinen-Gattung (*Palatinella cytophora* nov. gen. nov. spec.). Zool. Anz., Leipzig, **30**, 1906, (423-428).

Lauterborn, R. 2. Beiträge zur Fauna und Flora des Oberrheins und seiner Umgebung. II. Faunistische und biologische Notizen. Dürkheim, Mitt. Pollichia, **60**, No. 19, 1903, (63-131).

Laveran, A. 1. Trypanosomiasis du Haut-Niger : un nouveau trypanosome pathogène. Paris, C.-R. Acad. sci., **143**, 1906, (94-97).

Laveran, A. 2. Sur trois virus de trypanosomiasis humaine de provenances différentes. Paris, C.-R. Acad. sci., **142**, 1906, (1065-1069).

Laveran, A. 3. Sur une Hémogregarine du l'anguille. Paris, C.-R. soc. biol., **60**, 1906, (457-458).

Laveran, A. 4. Au sujet de *Haemogregarina neireti*. Paris, C.-R. soc. biol., **60**, 1906, (458).

(Laveran, A. 5. De l'identité du Surra et de la Mbori. Paris, C.-R. Acad. sci., **141**, 1905, (1204-1207).)

Laveran, A. et Mesnil, F. 1. Identification des Trypanosomes pathogènes. Essais de sérodiagnostic. Paris, C.-R. Acad. sci., **142**, 1906, (1482-1487).

Laveran, A. et Mesnil, F. 2. Recherches expérimentales sur la trypanosomiasis des chevaux de l'Annam. Comparaison avec le Surra. Ann. Inst. Pasteur, Paris, **20**, 1906, (293-303).

Lebailly, C. Recherches sur les Hématozoaires parasites de Téléostéens marins. Arch. parasit., Paris, **10**, 1906, (348-404, pl. vii).

Léger, L. 1. Sur une nouvelle maladie myxosporidienne de la truite indigène. Paris, C.-R. Acad. sci., **142**, 1906, (655-656).

Léger, L. 2. Sur une nouvelle Myxosporidie de la tanche commune. Paris, C.-R. Acad. sci., **142**, 1906, (1097-1098).

Léger, L. 3. Etude sur *Taeniocystis mira* Léger, Grégarine métamérique. Arch. Protistenkunde, Jena, **7**, 1906, (307-329, 2 Taf.).

Léger, L. 4. Un nouveau *Nematopsis* parasite des moules de la Méditerranée. Paris, Bull. ass. franç. avanc. sci., **1905**, (331).

Léger, L. 5. Protozoaires parasites des vipères (*Vipera aspis*). Paris, Bull. ass. franç. avanc. sci., **1904**, (268).

Léger, L. 6. Deux nouvelles Myxosporidies parasites des poissons d'eau douce. Discussion : MM. Dangeard, Giard. Paris, Bull. ass. franç. avanc. sci., **1905**, (330).

(Léger, L. 7. Hémoflagellés des poissons d'eau douce. Leur forme dans les sangsues. Paris, Bull. ass. franç. sci., 1904, (263-269).)

Léger, L. et Duboscq, O. 1. Sur l'évolution des Grégarines gymno-sporées des Crustacés. Paris, C.-R. Acad. sci., 142, 1906, (1225-1227).

Léger, L. et Duboscq, O. 2. L'évolution d'une *Aggregata* de la Seiche chez le *Portunus depurator* Leach. Paris, C.-R. soc. biol., 60, 1906, (1001-1003).

Léger, L. et Hesse, E. Sur la structure de la paroi sporale des Myxosporidies. Paris, C.-R. Acad. sci., 142, 1906, (720-722).

Lemmermann, E. 1. Das Plankton einiger Teiche in der Umgegend von Bremerhaven. Arch. Hydrobiol., Stuttgart, 1, 1906, (345-359).

Lemmermann, E. 2. Ueber das Vorkommen von Süßwasserformen im Plankton des Meeres. Arch. Hydrobiol., Stuttgart, 1, 1906, (409-427).

Leriche, M. Sur l'extension des grès à *Nummulites laevis* dans le Nord de la France et sur les relations des bassins parisiens et belges à l'époque lutétienne. Paris, C.-R. ass. franç. avanc. sci., 34, 1905, [1906], (394-402).

Levander, K. M. 1. Ueber das Winterplankton in zwei Binnenseen Süd-Finnlands. Helsingfors, Acta Soc. Fauna et Fl. Fenn., 27, No. 1, 1905-1906, (1-14).

Levander, K. M. 2. Beiträge zur Kenntniss des Sees Valkea Mustajärvi der Fischereiversuchsstation Evois. Helsingfors, Acta Soc. Faun. et Fl. Fenn., 28, No. 1, 1905-1906, (1-28).

Levi delle Vida, Mario. Contributo allo studio morfologico e biologico del *Plasmodium quartanae*. Roma, Atti Soc. studi malaria, 7, 1906, (137-148, 1 tav.).

Lewis, Joseph and Williams, Herbert U[pham]. The results of attempts to cultivate Trypanosomes from frogs. [Abstract.] New York, N.Y., Proc. Soc. Exp. Biol. Med., 2, 1905, (44-47).

Liebetanz, Erwin. Die parasitischen Protozoen des Wiederkäuermagens. Kurzer Auszug zur Wahrung der Priorität. Berliner tierärztl. Wochenschr., 1905, (313-311).

Liebus, Adalbert. Ueber die Foraminiferenfauna der Tertiärschichten von Biarritz. Wien, Jahrb. Geol. Reichsanst., 56, 1906, (351-366, 1 Taf.).

Lingard, A. and Jennings, H. Some flagellate forms found in the intestinal tract of Diptera and other genera. London (Adlard & Son), 1906, (25, 5 pls.).

Lister, J. J. The life-history of the Foraminifera. (Opening address to the Zoological Section, British Association.) Nature, London, 74, 1906, (400-406).

Loewenthal, Waldemar. Wirtswechsel und Vererbung bei Protozoeninfektionen. Fortschr. Med., Leipzig, 24, 1906, (4-7).

Lord, J. E. Notes on *Acanthocystis pertyana*. Manchester, Trans. Microsc. Soc., 1905, 1906, (41-44, pl. i).

Lotti, B. Osservazioni geologiche nei dintorni di Rieti. Roma, Boll. Comitato geol., (ser. 4), 7, 1906, (280-316).

Lucas, Robert. [Jahresbericht über] Protozoa, mit Ausschluss der Foraminifera, für 1891. Mit Nachträgen aus den Jahren 1886-1890. Arch. Natg., Berlin, 66, Bd 2, H. 3, 1900 [1906], (69-142).—Desgl. für 1892, l.c. (143-252).—Desgl. für 1893, l.c. (253-350).

Lühe, Max. 1. Die im Blute schmarotzenden Protozoen und ihre nächsten Verwandten. [In] Handbuch der Tropenkrankh., hrsg. v. C. Mense, Bd III, 1. Leipzig (J. A. Barth), 1906, (69-268, 3 Taf.).

Lühe, M. 2. Zur Kenntniss von Bau und Entwicklung der Babesien. Zool. Anz., Leipzig, 30, 1906, (45-52).

Luhs, F. *Trypanosoma theileri* in Trans-Kaukasien. Arch. parasit., Paris, 10, 1906, (171-186, 2 pls.).

Lustig, A. I Protozoi quali cause di malattie. I. Tripanosomi. (Lezione.) Tommasi, Napoli, 1, 1906, (188-190).

MacBride, T. H. Geology of Sac and Ida Counties. Iowa Geol. Surv., Des Moines, 16, 1905, [1906], (509-562, pls. and charts).

MacNeal, W. J. vide Novy, F. G.

Magalhães, A. de. Sur le traitement des rats infectés par le *Trypanosoma gambiense* au moyen de l'acide arsénieux et du trypanroth. Arch. Inst. R. Bact., Lisbonne, 1, 1906, (171-176).

Manca, G. 1. Trypanosomes du lapin et de l'anguille en Sardaigne. Paris, C.-R. soc. biol., **60**, 1906, (191).

Manca, G. 2. Diffusione dei Tripanosomi in Sardegna. Venezia, Atti Ist. ven., **65**, Ser. 8, **8**, 1905-1906, (823-827).

Martin, Gustave. 1. Du rôle important du *Trypanosoma dimorphon* dans les épizooties de la Guinée française. Paris, C.-R. soc. biol., **61**, 1906, (107-109).

Martin, G. 2. Les trypanosomiasés de la Guinée française. Paris (Maloine), 1906, (124). 25 cm.

Martin, G. vide Mesnil, F.

Martini, Erich. Untersuchungen über die Tsetsekrankheit zwecks Immunisierung von Haustieren. (Unter Leitung des Geh. Med.-Raths Prof. Dr. Robert Koch ausgeführt.) Zs. Hyg., Leipzig, **50**, 1905, (1-96, 2 Taf.).

Martoglio, F. and Carpano, M. Sopra un caso di *Haemogregarina bovis*. Ann. Igiene, Roma, **16**, 1906, (251-255).

Massaglia, Aldo. Le lesioni anatomo-patologiche causate dal *Trypanosoma evansi* nella infezione sperimentale del sorcio, del topo e della cavia. Torino, Giorn. Acc. med., **68**, 1905, (491-498, 1 tav.).

Mast, S. O. Light reactions in lower organisms. 1. *Stentor coeruleus*. [Cambridge, Mass., Cont. Mus. Comp. Zool. Harvard Coll., No. **180**.] J. Exp. Zool., Baltimore, Md., **3**, 1906, (359-399).

Mathis, C. 1. Sensibilité des écureuils au nagana expérimental. Paris, C.-R. soc. biol., **61**, 1906, (273-274).

Mathis, C. 2. Sur une modification au milieu de Novy-MacNeal pour la culture des Trypanosomes. Paris, C.-R. soc. biol., **61**, 1906, (550-552).

Mauro, Di, S. vide Russo, A[chille].

Maury, E. and Caziot, E. Étude géologique de la presqu'île St Jean (Alpes-Maritimes). Paris, Bul. soc. géol., sér. 4, **5**, 1905, (581-592).

Mayer, Martin vide Nocht, B[ernhard].

Mazzarelli, G[iuseppe]. 1. *Caprina aurantiaca*, n. gen., n. sp. di Ciliato della famiglia delle *Urceolaridae*, parassita delle branchie degli agoni. Rivista mensile di Pesca, Milano, **8**, 1906, (205-208).

Mazzarelli, G. 2. Rapporti tra il gen. *Branchiophaga* Mazzar. e il gen. *Blastulidium* Pér. Rivista mensile di Pesca, Milano, **8**, 1906, (209-214).

(Mazzarelli, G. 3. Ricerche sulla epizootia degli agoni (*Alosa finta*) manifestata-si nel lago di Lugano negli anni 1904 e 1905. Acquicoltura lombarda, Milano, **7**, 1905, (143-189, 2 tav.).)

Mercier, L. 1. Phénomènes de sexualité chez *Myrobolus pfeifferi*. Paris, C.-R. soc. biol., **60**, 1906, (427-428).

Mercier, L. 2. Contribution à l'étude du développement des spores chez *Myrobolus pfeifferi*. Paris, C.-R. soc. biol., **60**, 1906, (763-764).

Mercier, L. 3. Un organisme à forme levûre parasite de la Blatte (*Periplaneta orientalis* L.). Levûre et Nosema. Paris, C.-R. soc. biol., **60**, 1906, (1081-1083).

Mercier, L. 4. Sur une Microsporidie du Talitre. Paris, C.-R. soc. biol., **61**, 1906, (90-91).

Mesnil, Félix vide Caullery, M.

Mesnil, F. vide Laveran, A.

Mesnil, F. et Martin, J. Sur la réceptivité des oiseaux aux Trypanosomes pathogènes pour les mammifères. Paris, C.-R. soc. biol., **60**, 1906, (739-741).

Mesnil, F. et Nicolle, M. Traitement des trypanosomiasés par les "couleurs de benzidine." 2^e partie: étude expérimentale. Ann. Inst. Pasteur, Paris, **20**, 1906, (513-538).

Mesnil, F. et Rouget, J. Sensibilité des ruminants et des singes au Trypanosome de la dourine. Ann. Inst. Pasteur, Paris, **20**, 1906, (689-697).

Michaelis, Leonor. Die Protozoen als Krankheitserreger. [In] Der Mensch u. die Erde, hrsg. v. H. Kraemer, Bd. 2. Berlin (Bong & Co.), [1906], (241-296, Taf. v).

Mielck, Wilh. Untersuchungen an Acanthometriden des pacifischen Ozeans. Zool. Anz., Leipzig, **30**, 1906, (754-763).

Minchin, E. A. The etiology of sleeping-sickness. Nature, London, **75**, 1906, (56-59).

Minchin, E. A., Gray, A. C. and [the late] **Tulloch, F. M.** *Glossina palpalis* in its relation to *Trypanosoma gambiense* and other Trypanosomes. (Preliminary Report). London, Proc. R. Soc., **78 (B)**, 1906, (242-258, pls. xii-xiv).

(Mingazzini, Pio. Contributo alla conoscenza dei Cistoflagellati. *Radiozoum lobatum*, n. gen., n. sp. Roma, Ric. Lab. anat. norm., **10**, fasc. 2, 1904, (97-108, con 1 tav.).)

Miyajima, M. und Shibayama, G. Ueber das in Japan beobachtete Rinderpiroplasma. Zs. Hyg., Leipzig, **54**, 1906, (189-200, 1 Taf.).

Möllers, B[ernhard] *vide* Kleine, F. K.

Monti, R. Recherches sur quelques lacs du massif du Ruitor. Ann. biol. lacustre, Bruxelles, **1**, 1906, (120-167, charts and tables).

Moroff, Th. 1. Sur l'évolution des prétendues Coccidies des Céphalopodes. Paris, C.-R. Acad. sci., **142**, 1906, (652-654).

Moroff, T. 2. Bemerkungen über den Kern der *Aggregata* Frenzel. Zool. Anz., Leipzig, **31**, 1906, (72-78).

Moroff, T. 3. Untersuchungen über Coccidien. I. *Adelea zonula* nov. sp. Arch. Protistenkunde, Jena, **8**, 1906, (17-51, 1 Taf.).

Mott, F. W. 1. The microscopic changes in the nervous system in a case of chronic Dourine or "Mal de coit," and comparison of the same with those found in sleeping-sickness. London, Proc. R. Soc., **78 (B)**, 1906, (1-12, pls. i-iv).

Mott, F. W. 2. The microscopic changes in the nervous system in a case of chronic Dourine or "Mal de coit," and a comparison with those found in sleeping-sickness. Brit. Med. J., London, **1906**, **2**, (300-301).

Mott, F. W. 3. Changes in the nervous system produced in chronic Trypanosome infections. Brit. Med. J., London, **1906**, **2**, (1772-1777).

Mrazek, L. Despre prezenta Bartonianului in judetul Prahova. [Ueber das Vorkommen des Bartonien im Distrikte Prahova.] Bucharest, Bul. soc. sci., **15**, 1906, (15-23); deutsches Rés., (23-26).

Mulder, J. F. 1. Catalogue of fossils from Birregurra. Geelong Nat., **5**, iii, 1896, (13-17).

Mulder, J. F. 2. Fossils from Campbell's Point. Geelong Nat., Ser. 2, **1**, 1904, (37-38).

Mulder, J. F. vide Brady, E. J.

Musgrave, W. E. Amoebiasis; its association with other diseases, its complications, and its after-effects. Philippine J. Sci., Manila, **1**, 1906, (547-574).

Musgrave, W. E. and Clegg, M. T. The cultivation and pathogenesis of *Amoebae*. Philippine J. Sci., Manila, **1**, 1906, (909-950).

Nagai, H. Der Einfluss verschiedener Narcotica, Gase und Salze auf die Schwimmgeschwindigkeit von *Paramecium*. Zs. allg. Physiol., Jena, **6**, 1906, (195-212, 1 Taf.).

Nansen, Fridtjof. Protozoa on the ice-floes of the North Polar sea. The Norw. North Polar Exp. 1893-96. Scientific results ed. by F. Nansen, Kristiania (Jacob Dybwad), Vol. **5**, (No. XVI), 1906, (22, 8 pls.).

Neave, S. Report of the travelling pathologist and naturalist. Khartoum, Rep. Wellcome Res. Lab., **2**, 1906, (183-204, pls. xviii-xxi).

Nelli, B. Il Miocene del Monte Titano nella Repubblica di San Marino. Roma, Rend. Acc. Lincei, **15**, ii, 1906, (741-744).

Nicolle, C. et Comte, C. 1. Contribution à l'étude des Trypanosomes des cheiroptères. Paris, C.-R. soc. biol., **60**, 1906, (736-738).

Nicolle, C. 2. Sur une Hémogrégarine karyolysante de *Mabuia vittata*. Paris, C.-R. soc. biol., **61**, 1906, (294-295).

Nicolle, C. 3. Sur une Hémogrégarine de *Varanus griseus*. Paris, C.-R. soc. biol., **61**, 1906, (310-312).

Nicolle, C. and Mesnil, F. Treatment of trypanosomiasis by the "colours of benzidine." Brit. Med. J., London, **1906**, **2**, (1777-1779).

Nocht, B. Ueber Tropenkrankheiten. Verh. ges. D. Natf., Leipzig, **77**, 1905, (1906), (39-57).

Nocht, B. und Mayer, Martin. Trypanosomen als Krankheitserreger. [In]

Handbuch der pathogenen Mikroorganismen. Ergbd. II. I. Jena (G. Fischer), 1906, (1-75, 3 Taf.).

Novy, F. G. The Trypanosomes of Tsetse-flies. J. inf. diseases, Chicago, 3, 1906, (391-411, 3 pls.).

Novy, F. G. and Knapp, R. S. Isolation of Trypanosomes from accompanying Bacteria. J. Hygiene, London, 6, 1906, (111).

Novy, F. G. and MacNeal, W[ard] J. Trypanosomes and bird malaria. [Abstract.] New York, N.Y., Proc. Soc. Exp. Biol. Med., 2, 1905, (23-28).

Novy, F. G., MacNeal, W. J. and Torrey, H. N. Mosquito Trypanosomes. J. Hygiene, London, 6, 1906, (110-111).

Nuttall, G. H. F. and Graham-Smith, G. S. Canine piroplasmiasis. V. Further studies on the morphology and life-history of the parasite. J. Hygiene, London, 6, 1906, (586-651, pls xi-xiii).

Ochmann, R[obert]. Trypanosomiasis beim Schweine. [*Trypanosoma suis* n. sp. (?)]. Berliner tierärztl. Wochenschr., 1905, (337-338).

Oelzelt-Newin, Anton. Beobachtungen über das Leben der Protozoen. Zs. Psychol., Leipzig, Abt. 1, 41, 1906, (349-381).

Oppenheim, P. Neue Beiträge zur Geologie und Paläontologie der Balkanhalbinsel. Unter Diskussion von damit zusammenhängenden Fragen (Neogen in Griechenland, Alter des Ellipsactinienkalkes und Stellung der Schichten von Priabona). Berlin, Zs. D. geol. Ges., 58, 1906, (109-180, pl. viii).

Park, W. H. and Williams, A. W. Pathogenic microorganisms, including Bacteria and Protozoa: a practical manual for students, physicians and health officers. 2nd Ed., revised. London (Henry Kimpton), 1906, (556, 4 pls.).

Parona, C. F. Fossili turoniani della Tripolitania. Roma, Rend. Acc. Lincei, 15, i, 1906, (160-164).

Patton, W. S. On a parasite found in the white corpuscles of the blood of palm squirrels. Sci. Mem. Med. Ind., Calcutta, No. 24, 1906, (13, 1 pl).

Pearl, R. 1. A biometrical study of conjugation in *Paramoecium*. [Abstract.] London, Proc. R. Soc., 77, (B), 1906, (377-383).

(x-9720 c)

Pearl, R. 2. Variation in *Chilomonas* under favourable and unfavourable conditions. Biometrika, Cambridge, 5, 1906, (53-72).

Pécaud. La Soumaya, trypanosomiase du Moyen-Niger. Paris, C.-R. soc. biol., 60, 1906, (58-59).

Penard, E. Étude sur la *Clypeolina marginata*. Arch. Protistenkunde, Jena, 8, 1906, (66-85).

Pérez, C. 1. Sur un cas d'envahissement de l'ovaire par *Thelohanium menadisi*. Paris, C.-R. soc. biol., 60, 1906, (1091-1092).

Pérez, C. 2. Sur quelques Microsporidies parasites des Crustacés. Paris, Bull. ass. franç. avanc. sci., 1905, (329-330).

(Pérez, C. 3. Microsporidies parasites des crabes d'Arcachon. Arcachon, Trav. Soc. sci. station zool., 8, 1905, [1906], (15-36).)

Perrin, W. S. 1. Preliminary communication on the life-history of *Pleistophora periplanetae*, Lutz and Splendore. Cambridge, Proc. Phil. Soc., 13, 1906, (204-208).

Perrin, W. S. 2. Observations on the structure and life-history of *Pleistophora periplanetae*, Lutz and Splendore. Q. J. Microsc. Sci., London, 49, 1906, (615-633, 2 pls.).

Perrin, W. S. 3. Researches upon the life-history of *Trypanosoma balbianii* (Certes). Arch. Protistenkunde, Jena, 7, 1906, (131-156, 2 Taf.).

Peters, A. W. and Rees, M. H. Some relations of protozoa to certain ions in their medium. Science, New York, N.Y., N. Ser., 23, 1906, (527-528).

Pezopoulou, N[ik.] und Cardamati, Jean P. Die Malaria in Athen. Eine biologische und histologische Studie über die Malariaplasmodien. Centralbl. Bakt., Jena, Abt. I, 40, Originale, 1906, (344-350, 2 Taf., 480-495, 2 Taf.).

(Pfeiffer, Ernst. Ueber trypanosomen-ähnliche Flagellaten im Darm von *Melaphagus ovinus*. Zs. Hyg., Leipzig, 50, 1905, (324-330, 1 Taf.).)

Plate, I[udwig]. *Pyrodinium bahamense* n. g., n. sp., die Leucht-Peridinee des „Feuersees“ von Nassau, Bahamas. Arch. Protistenkunde, Jena, 7, 1906, (411-429, 1 Taf.).

Popofsky, A. 1. Ueber Acanthometriden des indischen und atlantischen Ozeans. *Arch. Protistenkunde*, Jena, **7**, 1906, (345-394, 4 Taf.).

Popofsky, A. 2. Die Acantharia der Plankton-Expedition. Tl II: *Acanthophracta*. (Ergebnisse der Plankton-Expedition der Humboldt-Stiftung. Bd III. L. f. β .) Kiel u. Leipzig (Lipsius & Tischer), 1906, (160, 16 Taf.). 33 cm. 26 M.

Popofsky, A. 3. System und Faunistik der Acanthometriden der Plankton-Expedition. Diss. Kiel (A. F. Jensen), 1904, (79, 1 pl.). 23 cm.

Popovici-Bazroanu, A. Sur l'Hématozoaire de *Testudo ibera* (*T. mauritanica*, *T. pusilla*). Paris, C.-R. soc. biol., **60**, 1906, (173-174).

Prandtl, Hans. Die Konjugation von *Didinium nasutum* O. F. M. *Arch. Protistenkunde*, Jena, **7**, 1906, (229-258, 2 Taf.). Auch separat als Diss. München.

Pressat, André. Le paludisme et les moustiques (Prophylaxie). Paris (Masson), 1905, (viii+180). 24 cm.

Prever, P. L. I terreni nummulitici di Gassino e di Biarritz. Torino, *Atti Acc. Sc.*, **41**, 1906, (185-199).

Prever, P. L. *vide* Douvillé, R.

Pricolo, Antoine. Le trypanosome de la souris. Cycle de développement des trypanosomes chez le fœtus. *Centralbl. Bakt.*, Jena, Abt. 1, **42**, Originale, 1906, (231-235).

Raymond, G. Quelques mots sur la récolte et l'observation des Infusoires des eaux douces. *Microgr. prépar.*, Paris, **14**, 1906, (163-166).

Reade, T. M. and Wright, J. The Pleistocene clays and sands of the Isle of Man. Liverpool, *Proc. Geol. Soc.*, **10**, 1906, (103-117).

Redlich, K. A. Die Geologie des Gurk- und Görtschitzthales. Wien, *Jahrb. geol. Reichsanst.*, **55**, 1905, (327-348, charts and tables).

Repelin, J. Monographie de la faune saumâtre du Campanien inférieur du Sud-Est de la France (Zone du Plan d'Aups). *Ann. Mus.*, Marseille, **10**, 1906, (1-87, 12 pls.).

Rhumbler, I[udwig]. Foraminiferen von Laysan und den Chatham-Inseln.

(Ergebnisse einer Reise nach dem Pacific. Schauinsland 1896-1897.) *Zool. Jahrb.*, Jena, Abt. f. Syst., **24**, 1906, (21-80, 4 Taf.).

Richardson, L. On a section of lower Lias rocks at Maisemore, near Gloucester. Gloucester, *Proc. Cotteswold Nat. F. Cl.*, **15**, 1906, (259-262).

Ristori, G. Il Bacino del Trasimeno. Roma, *Mem. Soc. XL.*, sér. 3, **13**, 1905, (325-405, charts).

Robertson, M. 1. Notes on certain blood-inhabiting Protozoa. Edinburgh, *Proc. R. Physic. Soc.*, **16**, 1906, (232-247, pls. viii, ix).

Robertson, M. 2. Notes on certain parasitic Protozoa from the groups of the Myxosporidia and Haemosporidia. Glasgow, *Proc. Phil. Soc.*, **37**, 1906, (74-79, 1 pl.).

Robertson, T. Brailsford. 1. Investigations on the reactions of Infusoria to chemical and osmotic stimuli. *J. Biol. Chem.*, New York, N.Y., **1**, 1906, (185-202).

Robertson, T. 2. Note on the influence of surface-evaporation upon the distribution of Infusoria. Wood's Holl, Mass., *Mar. Biol. Lab. Bull.*, **10**, 1906, (115-119).

Rodet, A. et Vallet, G. 1. Sur l'infection expérimentale par le *Trypanosoma brucei*. Destruction du parasite dans la rate. Paris, C.-R. Acad. sci., **142**, 1906, (1229-1231).

Rodet, A. et Vallet, G. 2. Nagana expérimental. Sur les variations du nombre des Trypanosomes dans le sang du chien. Trypanolyse intravasculaire et pouvoir trypanolytique du sérum. Paris, C.-R. Acad. sci., **143**, 1906, (327-328).

Rodet, A. et Valet, G. 3. *Trypanosoma brucei* et Nagana expérimental. Paris, C.-R. soc. biol., **61**, 1906, (186-189).

Rogers, L. Further work on the development of the *Hepatomonas* of Kala-Azar and cachexial fever from Leishman-Donovan bodies. London, *Proc. R. Soc.*, **77**, (B.), 1906, (284-293, pl. vii).

Roos, E[rnst]. Die in menschlichen Darne vorkommenden Protozoen und ihre Bedeutung. *Med. Klinik*, Berlin, **1**, 1905, (1328-1331).

Ross, R. 1. Note on a Flagellate parasite found in *Culex fatigans*. J. Hygiene, London, **6**, 1906, (96-97).

Ross, R. 2. Notes on the parasites of mosquitoes found in India between 1895 and 1899. J. Hygiene, London, **6**, 1906, (101-108).

Ross, R. 3. The effect of various rays on Trypanosomes. Brit. Med. J., London, **1906**, **1**, (798).

Roux, G. et Lacomme, L. Disparition momentanée des Trypanosomes du Nagana chez des chiens infectés. Paris, C.-R. Acad. sci., **143**, 1906, (135-137).

Ruge, Reinhold. 1. Einführung in das Studium der Malaria-krankheiten mit besonderer Berücksichtigung der Technik. 2. gänzlich umgearb. Aufl. Jena (G. Fischer), 1906, (ix + 420, 5 Taf.). 26 cm. 11 M.

Ruge, R. 2. Amöbenruhr. [In] Handbuch Tropenkrankh., hrsg. v. C. Mense, Bd III, 1. Leipzig (J. A. Barth), 1906, (1-21, 3 Taf.).

(Russo, A[chille] e Di Mauro, S. 1. Frammentazione del macronucleo nel *Cryptochilum echini* (Maupas) e sua significazione per la senescenza degli Infusori. Catania, Boll. Acc. Gioenia, N. Ser., fasc. **84**, 1905, (3-9).

(Russo, A. e Di Mauro, S. 2. Differenziazionicitoplasmatiche nel *Cryptochilum echini* (Maupas). Catania, Boll. Acc. Gioenia, N. Ser., fasc. **84**, 1905, (9-13).

(Russo, A. e Di Mauro, S. 3. La coniugazione ed il ringiovanimento nel *Cryptochilum echini* Maupas. Catania, Boll. Acc. Gioenia, N. Ser., fasc. **85**, 1905, (10-15).

Sacco, F. 1. Sur la valeur stratigraphique des *Lepidocyclina* et des *Miogypsina*. Paris, Bul. soc. géol., sér. 4, **5**, 1905, (880-892).

Sacco, F. 2. Les étages et les fauces du bassin Tertiaire du Piémont. Paris, Bul. soc. géol., sér. 4, **5**, 1905, (893-913, pls. xxx, xxxi).

Sauerbeck, Ernst. Beitrag zur pathologischen Histologie der experimentellen Trypanosomen-Infektion (mit *Trypanosoma brucei*). Zs. Hyg., Leipzig, **52**, 1906, (31-86, 2 Taf.).

Saul, F. Untersuchungen zur Aetiologie der Tumoren. Centralbl. (N-9720 c)

Bakt., Jena, Abth. 1, **42**, Orig., 1906. (518-526).

Schingareff, A. J. Des Hémosporidies des chauves-souris. Arch. sci. biol., St. Peterburg, **12**, 1906, (181-189, 1 pl.).

Schorler, B., Thallwitz, J. und Schiller, K. Pflanzen- und Thierwelt des Moritzburger Grossteiches bei Dresden. Ann. Biol. lacustre, Bruxelles, **1**, 1906, (193-310, charts and tables).

Schouteden, II. 1. Notes sur quelques Infusoires aspirotriches. Ann. Biol. lacustre, Bruxelles, **1**, 1906, (111-119).

Schouteden, II. 2. Les Rhizopodes testacés d'eau douce. D'après la Monographie du Prof. S. Averintzev. Ann. Biol. lacustre, Bruxelles, **1**, 1906, (327-382).

Schouteden, II. 3. Les Infusoires aspirotriches d'eau douce. Ann. Biol. lacustre, Bruxelles, **1**, 1906, (383-468).

Schröder, Bruno. Zur Charakteristik des Phytoplanktons temperierter Meere. Berlin, Ber. D. bot. Ges., **24**, 1906, (260-263).

Schröder, Olav. 1. Beiträge zur Kenntnis von *Campanella umbellaria* L. sp. (*Epistylis flavicans* + *grandis* Ehrbg.) Arch. Protistenkunde, Jena, **7**, 1906, (75-105, 2 Taf.).

Schröder, O. 2. Beiträge zur Kenntnis von *Epistylis plicatilis* (Ehrbg.) Arch. Protistenkunde, Jena, **7**, 1906, (173-185, 1 Taf.).

Schröder, O. 3. Eine neue Myxosporidienart aus den Kiemen von *Acerina cernua* (*Henneguya acerinae* n. sp.). Arch. Protistenkunde, Jena, **7**, 1906, (186-196, 1 Taf.).

Schröder, O. 4. Beiträge zur Kenntnis von *Vorticella monilata* Tatem. Arch. Protistenkunde, Jena, **7**, 1906, (395-410, 1 Taf.).

Schröder, O. 5. Beiträge zur Kenntnis von *Stentor coerules* Ehrbg. und *St. roeselii* Ehrbg. Arch. Protistenkunde, Jena, **8**, 1906, (1-16, 1 Taf.).

Schröder, O. 6. Neue Protozoen der deutschen Südpolar-Expedition. Zool. Anz., Leipzig, **30**, 1906, (448-454).

Schröder, O. 7. Eine neue *Cyrtocladus*-art (*Cyrtocladus spinosus*). Zool. Anz., Leipzig, **30**, 1906, (587-590).

Schuberg, August und **Kunze**, Wilhelm. Ueber eine Coccidienart aus dem Hoden von *Nephelis vulgaris* (*Herpobdella atomaria*), *Orcheobius herpobdellae* nov. gen. nov. sp. Verh. D. zool. Ges., Leipzig, **16**, 1906, (233-250).

Schubert, R[ichard] J[ohann]. **1**. *Heteroclypeus*, eine Uebergangsform zwischen *Heterostegina* und *Cycloclypeus*. Centralbl. Min., Stuttgart, **1906**, (640-641).

Schubert, R. J. **2**. Ueber *Ellipsoidina* und einige verwandte Formen. Centralbl. Min., Stuttgart, **1906**, (641-645).

Schüller, Max. Ueber die Entwicklungsweise der Parasiten beim Krebs und Sarkom des Menschen, sowie bei Syphilis, und über ihre verschiedene Einwirkung auf die Zellen. (Kurze Notiz.) Centralbl. Bakt., Jena, Abt. I, **40**, Originale, 1906, (463-474).

Schulze, Franz Eilhard. **1**. Die Xenophyophoren der Siboga-Expedition. Uitkomsten op zool., botan., ocean., geol. gebied, verzameld in Ned. Ind. 1899-1900, aan boord H. M. Siboga, onder commando van Lt. t/z 1^e kl. G. F. Tydeman, uitgegeven door Max Weber. [Résultats des explorations zool., botan., océan., géol. entreprises aux Indes Néerl. Or. 1899-1900, à bord du Siboga, sous le commandement de G. F. Tydeman, publiés par Max Weber.] Leiden (E. J. Brill), Livr. **31**, Monogr. 4 bis, 1906, (18, 3 p's.).

Schulze, F. E. **2**. Die Xenophyophoren der amerikanischen Albatros-Expedition 1904-05 nebst einer geschichtlichen Einleitung. Berlin, SitzBer. Ges. natf. Freunde, **1906**, (205-229, 1 Karte).

Seidlitz, W. v. Geologische Untersuchungen im östlichen Rätikon. Freiburg i. B., Ber. natf. Ges., **16**, 1906, (232-236, 5 pls.).

Sellnick. Die Bewohner von Moorsrasen Ostpreussens. Königsberg, Schr. Physik. Ges., **48**, 1906, (58-63).

Sergent, Edmond et **Sergent**, Etienne. **1**. Études sur les trypanosomiasés de Berbérie en 1905. Ann. Inst. Pasteur, Paris, **20**, 1906, (665-681).

Sergent, E. et **Sergent**, E. **2**. Sur un Flagellé nouveau de l'intestin des *Culex* et des *Stegomyia*, *Herpetomonas algeriense*. Sur un autre Flagellé et sur

des *Spirochaetae* de l'intestin des larves de moustiques. Paris, C.-R. soc. biol., **60**, 1906, (291-293).

Sergent, E. et **Sergent**, E. **3**. Sur le second hôte de l'*Haemoproteus* (*Halteridium*) du pigeon. Paris, C.-R. soc. biol., **61**, 1906, (494-496).

Shibayama, G. vide Miyajima, M.

Sidebottom, H. Report on the recent Foraminifera from the coast of the Island of Delos (Grecian Archipelago). Part III. Manchester, Mem. Lit. Phil. Soc., **50**, No. V, 1906, (18, 2 pls.).

Siegel, J[ohn]. Zur Kritik der bisherigen *Cytorrhhyctes*-Arbeiten. Centralbl. Bakt., Jena, Abt. I, **42**, Orig., 1906, (128-132, 225-230, 321-325).

Silvestri, A. **1**. Sulla "*Orbitoides gumbelii*" Seg. Roma, Atti Acc. Nuovi Lincei, **59**, 1905-1906, (33-49).

Silvestri, A. **2**. Sulla *Lepidocyclina marginata* (Michelotti). Roma, Atti Acc. Nuovi Lincei, **59**, 1905-1906, (146-166).

Silvestri, A. **3**. Sul dimorfismo della *Textularia gibbosa* d'Orh. Roma, Mem. Acc. Nuovi Lincei, **24**, 1906, (225-242).

Silvestri, A. **4**. Ricerche strutturali su alcune forme dei trubi di Bonfornello (Palermo). Roma, Mem. Acc. Nuovi Lincei, **22**, 1904, (235-276, 14 figg.).

Silvestri, A. **5**. Notizie sommarie su tre fannule del Lazio. II. Riv. Ital. Paleont., Perugia, **12**, 1906, (20-35).

Smith, W. D. **1**. *Orbitoides* from the Binangonan limestone. (With some notes on early connections between Formosa, the Philippines, and Java.) Philippine J. Sci., Manila, **1**, 1906, (203-210, 2 pls.).

Smith, W. D. **2**. Preliminary geological reconnaissance of the Loboo mountains, Batangas Province. Philippine J. Sci., Manila, P.I., **1**, 1906, (617-635).

Statkewitsch, Paul. Galvanotropismus und Galvanotaxis der Ciliata. Mitt. 4-5. Zs. allg. Physiol., Jena, **6**, 1906, (13-43, 1 Taf.).

Stazzi, Pietro. Psorospermosi o mixoboliasi tuberosa dei Barbi. Rivista mensile di Pesca, Milano, **8**, 1906, (14-19).

Stefano (Di), G. Sull'esistenza dell'Eocene nella Penisola Salentina. Roma, Rend. Acc. Lincei, **15**, (1), 1906, (423-425).

Stempell, W[alter]. Beobachtungen an *Volvox aureus* Ehrbg. (= *minor* Stein). Zool. Anz., Leipzig, **30**, 1906, (535-539).

Stolc, Antonin. Plasmodiogenic, eine Vermehrungsart der niedersten Protozoen. Nach den Untersuchungen an mehrkernigen Formen von *Amoeba proteus*. Arch. EntwMech., Leipzig, **21**, 1906, (111-125).

Stoltz, K. Beitrag zur Kenntniss des Septarientones von Wonsheim in Rheinhessen. Centralbl. Min., Stuttgart, **1905**, (656-661).

Stromer, Ernst. Bemerkungen über Protozoen. Centralbl. Min., Stuttgart, **1906**, (225-231).

Stuchlik, H. Die Faziesentwicklung der südbayrischen Oligocänmolasse. Wien, Jahrb. geol. RchsAnst., **56**, 1906, (277-350, 2 pls. and tables).

Tempère, J. Les Myxomycètes (suite). Microgr. prépar., Paris, **14**, 1906, (76-79, 249-252, pls. viii, xxviii).

Thallwitz, J. *vide* Schorler, B.

Theiler, A. The advance of our knowledge respecting the stock diseases of South Africa. London, Rep. Brit. Ass., **1905**, (553-554).

Thesing, C[urt]. Urtierchen als Parasiten und Krankheitserreger. Himmel u. Erde, Berlin, **19**, 1906, (49-66, 124-137, 163-175).

Thiébaud, M. Sur la faune invertébrée du lac de St. Blaise. Zool. Anz., Leipzig, **29**, 1906, (795-801).

Thiébaud, M. and Favre, J. 1. Sur la faune invertébrée des mares de Pouillerel. Zool. Anz., Leipzig, **30**, 1906, (155-163).

Thiébaud, M. and Favre, J. 2. Contribution à l'étude de la faune des eaux du Jura. Ann. Biol. lacustre, Bruxelles, **1**, 1906, (57-113).

Thiroux. 1. Sur les propriétés préventives du sérum de deux malades atteints de trypanosomiase humaine (forme maladie du sommeil). Paris, C.-R. soc. biol., **60**, 1906, (778-779).

Thiroux. 2. De l'unité de l'hématozoaire du paludisme. Paris, C.-R. Acad. sci., **143**, 1906, (615-617).

Thiroux. 3. Des relations de la fièvre tropicale avec la quarte et la tierce, d'après des observations prises au Sénégal. Ann. Inst. Pasteur, Paris, **20**, 1906, (766-778, 869-873).

(**Thiroux.** 4. Recherches morphologiques et expérimentales sur *Trypanosoma duttoni*. Ann. Inst. Pasteur, Paris, **19**, 1905, (564-572, pl.).)

Thomas, H. W. Remarks on Mr. Plimmer's note on the effects produced in rats by the *Trypanosomata* of Gambian fever and sleeping-sickness. London, Proc. R. Soc., **78** (B.), 1906, (316-317).

Thomson, J. D. Blood parasites of the mole, including a new form of intracorpuseular parasite. J. Hygiene, London, **6**, 1906, (574-579, pl. x).

Tobey, E. N. *Trypanosomata* and trypanosomiasis. J. Med. Res., Boston, Mass., N. Ser., **10**, 1906, (117-145).

Tobey, E. N. *vide* Dutton, J. E.

Todd, J. L. 1. Treatment of human trypanosomiasis by atoxyl. Brit. Med. J., London, **1906**, 1, (1037).

Todd, J. L. 2. A means of checking the spread of sleeping-sickness. Lancet, London, **1906**, 2, (6-9, with 3 maps).

Todd, J. L. *vide* Dutton, J. E.

Topsent, E. Une station d'*Ophrydium versatile* dans la Marne. Bul. Muséum, Paris, **1906**, (576).

Torrey, H. N. *vide* Novy, F. G.

Trabucco, G. Fossili, stratigrafia ed età dei terreni della Repubblica di S. Marino. (Nota prel.). Pisa, Proc. verb. Soc. tosc. sc. nat., **16**, 1906, (7-12).

Treutlein, —. Ueber Protozoen-Blutkrankheiten bei Mensch und Thier in Indien und Deutsch-Ostafrika. Würzburg, SitzBer. Physik. Ges. **1906**, (13-14).

Tulloch, F. M. *vide* Minchin, E. A.

Tyzzer, E. E. *vide* Brinkerhoff, W. R.

Vallet, G. *vide* Rodet, A.

Vassal, J. J. Trypanosomiase des chevaux de l'Annam. Ann. Inst. Pasteur, Paris, **20**, 1906, (256-295).

Veazie, H. A. Aestivo-autumnal fever. Cause, diagnosis, treatment and destruction of mosquitoes which spread the disease. Science, New York, N.Y., (N. Ser.), **23**, 1906, (407-414).

Versluys, J. Ueber die Konjugation der Infusorien. Biol. Centralbl., Leipzig, **26**, 1906, (46-62).

Viès, F. Sur la structure et les affinités de *Trypanosoma balbianii*. Paris, C.-R. soc. biol., **61**, 1906, (408-410).

Volk, R. Studien über die Einwirkung der Trockenperiode im Sommer 1904 auf die biologischen Verhältnisse der Elbe bei Hamburg. Mit einem Nachtrag über chemische und planktologische Methoden. Hamburg, Jahrb. Wiss. Anst. **23**, Beiheft 2, 1905, (1-101, 2 pls., 1 chart).

[**Walcott, C. D.** Cambrian Faunas of China. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **29**, 1906, (1-106).]

Ward, Henry B[aldwin]. 1. Trypanosomes and disease. Lincoln, Stud. Zool. Lab. Univ. Neb., No. **64**, 1906, (5-11). 23.5 cm.

Ward, H. B. 2. Filariasis and Trypanosome diseases. Science, New York, N.Y., (N. Ser.), **23**, 1906, (370-371).

Warren, E. On *Bertramia kirkmani*, sp. nov., a Myxosporidium occurring in a South African Rotifer. Ann. Natal Govt. Mus., London, **1**, 1906, (7-17, 1 pl.).

Wellmann, F. C. Human trypanosomiasis and spirochaetosis in Portuguese South-West Africa, with suggestions for preventing their spread in the colony. J. Hygiene, London, **6**, 1906, (237-245).

Wenyon, C. M. Report on Dr. P. N. Gerrard's preparations accompanying the foregoing communication [v. Gerrard, P. N.]. J. Hygiene, London, **6**, 1906, (231-236, pl. ii).

West, W. and West, G. S. A comparative study of the Plankton of some Irish Lakes. Dublin, Trans. R. Irish Acad., **33** (B), 1906, (77-116, pls. vi-xi).

Williams, A. W. vide Park, W. H.

Williams, Herbert U[pham] vide Lewis, Joseph.

Witte, H. *Stratiotes aloides* L. funnen i Sveriges postglaciala aflagringar. [*Stratiotes aloides* L. found in Swedish postglacial deposits.] Stockholm, Geol. För. Förh., **27**, 1905, (432-451).

Woodcock, H. M. 1. The life-cycle of "*Cystobia*" *irregularis* (Minch.), together with observations on other "neogamous" Gregarines. Q. J. Microsc. Sci., London, **50**, 1906, (1-100, 6 pls.).

Woodcock, H. M. 2. The Haemoflagellates: a review of present knowledge relating to the Trypanosomes and allied forms. Q. J. Microsc. Sci., London, **50**, 1906, (151-331).

Woodcock, H. M. 3. Protozoa. Zool. Rec., London, **42**, 1906, No. XVIII, (1-76).

Woodruff, Lorande Loss. An experimental study on the life-history of hypotrichous Infusoria. J. Exp. Zool., Baltimore, Md., **2**, 1905, (585-632, 3 pls.).

Woltereck, R. Mittheilungen aus der Biologischen Station in Lunz (N.-Ö.). Biol. Centralbl., Berlin, **26**, 1906, (463-480).

Wright, J. ride Reade, T. M.

Yabe, Hisakatsu. A contribution to the genus *Fusulina*, with notes on a *Fusulina*-limestone from Korea. Tokyo, J. Coll. Sci., **21**, Art. 5, 1906, (1-36, 3 pls.).

Yakimoff, W. L. Vitalité du Trypanosome de la Dourine dans les conditions artificielles. Paris, C.-R. soc. biol., **61**, 1906, (631-633).

Zacharias, Otto. 1. Eine neue Dictyochide aus dem Mittelmeer: *Hermesinum adriaticum* n. g., n. sp. Arch. Hydrobiol., Stuttgart, **1**, 1906, (394-398).

Zacharias, O. 2. Ueber die mikroskopische Fauna und Flora eines im Freien stehenden Taufbeckens. Arch. Hydrobiol., Stuttgart, **2**, 1906, (235-238).

Zacharias, O. 3. Das Plankton als Gegenstand eines zeitgemässen biologischen Schulunterrichts. Arch. Hydrobiol., Stuttgart, **2**, 1906, (247-344).

Zacharias, O. 4. Ueber Periodizität, Variation und Verbreitung verschiedener Planktonwesen in südlichen Meeren. Arch. Hydrobiol., Stuttgart, **1**, 1906, (198-575).

Zacharias, O. 5. Planktonforschung und Darwinismus. Zool. Anz., Leipzig, **30**, 1906, (381-388).

Zaleski, K. Przypadek obecności wiciowców (Flagellata) w wypróżnieniach ludzkich. [Un cas de présence des flagellés dans les excréments humains.] Medyc., Warszawa, **34**, 1906 (100-103).

Zederbauer, E. *vide* Brehm, V.

Zoeppritz, K. Geologische Untersuchungen im Ober-Engadin zwischen Albula-Pass und Livigno. Freiburg i. B., Ber. Natf. Ges., **16**, 1906, (164-231, 6 pls.).

Zschokke, F. Uebersicht über die Tiefenfauna des Vierwaldstättersees. Arch. Hydrobiol., Stuttgart, **2**, 1906, (1-8).

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Bibliography.

Record of Protozoa for 1905; **Woodcock**, **3**.

International Cat. Sci. Lit., 3rd Annual Issue, London, 1906, Part ii, Protozoa (55-88).

Internat. Cat. Sci. Lit., 4th Annual Issue, London 1906, Part ii, Protozoa (51-81).

[Jahresbericht über] Protozoa, mit Ausschluss der Foraminifera, für 1891, 1892, and 1893. Mit Nachträgen aus den Jahren 1886-1890; **Lucas**.

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(c.) *Haemosporidiosis*.

Malarial epidemic in Greece and the different types of parasite associated therewith; **Cardamati** and **Diamesi**.

Malaria, latent infection; **Craig**.

Phagocytosis of malarial crescents; **Bernstein**.

De la persistante vitalité de l'hématozoaire de Laveran dans le cadavre humain; **Gillot**.

Malaria in Athens; **Pezopoulo** and **Cardamati**.

Le paludisme et les moustiques (prophylaxie); **Pressat**.

Aestivo-autumnal fever; **Veazie**.

(d.) *Piroplasmosis*.

Protozoaires dans le bouton du Nil; **Billet**, 2.

Piroplasmosis in the white rat; **Fantham**.

Relation of the different forms of *Piroplasma* to the blood-corpuscles; **Lühe**, 2.

Canine piroplasmosis (relation of the parasites to the corpuscles); **Nuttall** and **Graham-Smith**.

Ueber das in Japan beobachtete Rinderpiroplasma; **Miyajima** und **Shibayama**.

(e.) *Myxosporidiosis*.

("Pseudodiphtheria" in *Alosa finta* due to *Branchiophaga*, a new Myxosporidian; **Mazzarelli**, 3.)

On myxosporidiosis in the barbel, caused by *Myxololus pfeifferi*; **Stazzi**.

(f.) *Trypanosis*.

Trypanosomosis in the Anglo-Egyptian Soudan; **Balfour**, 5.

Histology of sleeping sickness and trypanosomosis, with comparison of changes found in animals infected with *T. gambiense* and other *Trypanosomata*; **Breinl**.

Human trypanosomosis; **Broden**.

Sleeping-sickness in Uganda; **Bruce**, 1.

(Trypanosomes et trypanosomoses; **Brumpt**, 5.)

On the distribution of Trypanosomes (*T. brucei*) in the different organs (of rabbits); **van Durme**.

Comparison between the Trypanosomes present by day and by night in the peripheral circulation in cases of human

trypanosomosis; **Dutton**, **Todd** and **Tobey**, 2.

Le Nagana chez la poule; **Göebel**.

Beitrag zur Kenntniss der menschlichen *Trypanosoma*-krankheit; **Kudicke**.

Trypanosomiasis du Haut-Niger; un nouveau Trypanosome pathogène; **Laveran**, 1.

Sur trois virus de trypanosomiasis humaine de provenances différentes; **Laveran**, 2.

De l'identité du Surra et de la Mbori; **Laveran**, 5.

Identification des Trypanosomes pathogènes—Essais de sérodiagnostic; **Laveran** et **Mesnil**, 1.

Du rôle important du *Trypanosoma dimorphon* dans les épizooties de la Guinée française; **Martin**, 1.

Les Trypanosomiasis de la Guinée française; **Martin**, 2.

Untersuchung der Tsetsekrankheit zwecks Immunisirung von Hausthieren; **Martini**.

Le lesioni anatomopatologiche causate dal *Trypanosoma evansi* nella infezione sperimentale del sorcio, del topo e della cavia; **Massaglia**.

Microscopic changes in the nervous system of Dourine, compared with those found in sleeping-sickness; **Mott**, 1-3.

La Soumaya, trypanosomiasis du Moyen-Niger; **Pécaud**.

Nagana expérimental. Les variations du nombre des Trypanosomes dans le sang du chien. Trypanolyse intravasculaire et pouvoir trypanolytique du sérum; **Rodet** et **Vallet**, 2, 3.

Temporary disappearance of *T. brucei* from blood of infected dogs; **Roux** and **Lacomme**.

Pathological histology in artificial infection with *Trypanosoma brucei*; **Sauerbeck**.

Etudes sur les trypanosomiasis de Berbérie en 1905; **Sergent** et **Sergent**, 1.

Effects of Trypanosomes of Gambia fever and sleeping-sickness in rats compared; **Thomas**.

Trypanosomata and trypanosomosis; **Tobey**.

Means of checking spread of sleeping-sickness; **Todd**, 2.

Treatment of human trypanosomosis by atoxyl; **Todd, 1.**

Trypanosomiasis des chevaux de l'Annan; **Vassal.**

Human trypanosomosis and spirochaetosis in Portuguese South-West Africa, with prophylactic suggestions; **Wellman.**

(g.) *Various.*

Protozoa (malarial parasites and Trypanosomes) in relation to disease; **Nocht.**

Beitrag zur Frage der Pathogenität der Flagellaten; **Biland.**

Flagellated Protozoa in a perineal abscess; **Hunt.**

Die Ichthyophthiriasis; **Clevisch.**

Pathogenität des *Balantidium coli*; **Ehrnroth.**

Infusoria in Typhus stools; **Krause.**

Die im menschlichen Darne vorkommenden Protozoen und ihre Bedeutung; **Roos.**

Les maladies bryocytiques (maladies à Protozoaires). La syphilis; **Bosc.**

Experimental vaccinia and variola in monkeys and the occurrence of *Cytoryctes*; **Brinkerhoff** and **Tyzzer.**

Protozoan parasites in relation to tumours; **Saul.**

Different effects of the cancer parasite upon the cells; **Schüller.**

Miscellaneous.

Mode of transmission, experimental infection.

Methods of transmission and inoculation of Trypanosomes; **Brumpt, 2-4.**

Etiology of sleeping-sickness; **Minchin.** *Glossina palpalis* in relation to Trypanosomes; **Minchin, Gray** and **Tulloch.**

Trypanosoma duttoni, observed in the foetus of a mouse; **Pricolo.**

Sensibilité des écureuils au Nagana expérimental; **Mathis.**

Exceptional susceptibility of birds (geese) to pathogenic Mammalian Trypanosomes; **Mesnil** and **Martin.**

Susceptibility of monkeys and Ruminants to the Trypanosome of Dourine; **Mesnil** and **Rouget.**

Trypanosoma brucei et Nagana expérimental; **Rodet** et **Vallet, 1-3.**

Experimental reproduction of amœbic dysentery; **Gauducheau.**

Probable mode of infection in the case of the Leishman-Donovan bodies; **Rogers.**

Artificial cultivation.

Les cultures de Protozoaires (*Opalinae*) et les variations de la matière vivante; **Kunstler** et **Gineste, 1.**

Pretesa coltivazione delle Amebe parassite dell' intestino umano; **Barbagallo.**

Amœbae; **Musgrave** and **Clegg.**

Coccidium hominis from the rabbit; **Galli-Valerio.**

Kultivierungsversuch der Hundepiroplasmen; **Kleine.**

Development of the Flagellate forms of Leishman-Donovan bodies in acid media; **Rogers.**

Trypanosoma rotatorium; **Bouet.**

Results of attempts to cultivate Trypanosomes from frogs; **Lewis** and **Williams.**

Isolation of "Trypanosomes" (*Herpetomonas* and *Critidia*) in cultures, from accompanying Bacteria; **Novy** and **Knapp.**

Mosquito "Trypanosomes," (*Herpetomonas* and *Critidia*); **Novy, McNeal,** and **Torrey.**

Technique.

Sur une modification au milieu de Novy-MacNeal pour la culture des Trypanosomes; **Mathis.**

(Sur la fixation à l'état d'extension des animalcules contractiles et spécialement des Vorticelles; **Beauchamp.**)

Capture, observation, and fixation of fresh-water Infusoria; **Raymond.**

Modification of Romanowsky-Giemsa method of staining; **Billet.**

Canine piroplasmosis; **Nuttall** and **Graham-Smith.**

Einführung in das Studium der Malaria-krankheiten mit besonderer Berücksichtigung der Technik; **Ruge**, 1.

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General anatomy and morphology.

Fundamental characters of the simplest type of organism (*Amœba*); **Entz**, 1, 2.

A new order of fossil, incrusting organisms, the *Spongiostromaceae*, regarded as Protozoa; **Gürich**.

(a.) of SARCODINA.

Myxomonas betae, a new Mycetozoan parasite; **Brzezinski**.

Fresh-water Rhizopods; **Averintzev**, 1, 3, 5,

Mittheilungen über den Bau von *Pelomyxa lacustris*; **Bott**.

Entamoeba coli and *E. histolytica* compared; **Musgrave** and **Clegg**.

Arenaceous Foraminifera; **Kemna**.

On the dimorphism of *Textularia gibbosa*; **Silvestri**, 3.

Ricerche strutturali su alcune Foraminiferi di Bonfornello; **Silvestri**, 4.

Account of *Xenophyophora*; **Schulze**, 1, 2.

Structure of *Atlanticella*, a new Tripylarian; **Borgert**, 2.

(b.) of SPOROZOA.

Morphology of *Cystobia chiridotae* and *Nyalosphacra gregarinicola*; **Dogiel**, 1; "*Cystobia*" *irregularis* and other neogamous Gregarines; **Woodcock**, 1.

A new Sporozoan, *Eleutheroschizon duboseqi*; **Brasil**, 1.

Taeniocystis, a new metamerie Gregarine; **Léger**, 3.

Haematozoa of marine fish; **Lebailly**.

On a Haemogregarine of Mammals; **Balfour**, 2 and 3; *Haemogregarina lignièresi* n. sp.; **Laveran**, 3.

On the Haemosporidian (prob. *Haemogregarina* sp.) of *Testudo ibera* (*T. mauritanica*); **Popovici-Bazosanu**.

Contributo al studio morfologico del *Plasmodium quartanae*; **Levi della Vida**.

On a haemogregariniiform phase in the parasite of quartan fever (*Plasmodium malariae*); **Billet**, 1.

Diagnose différentielle des formes annulaires des hématozoaires du paludisme; **Billet**, 4.

On a new *Leucocytozoon* of Mammals; **Balfour**, 2, 4.

Leucocytozoon canis; **Christophers**.

On a Protozoan parasite from a dog (similar to that of Bentley = *Leucocytozoon canis*); **Wenyon**.

Piroplasma muris; **Fantham**.

Structural details of the different forms of *Babesia* (*Piroplasma*); **Lühe**, 2.

Canine piroplasmosis. v. On the morphology of the parasite (*P. canis*); **Nuttall** and **Graham-Smith**.

Structure of the Protozoan bodies observed in "bouton du Nil"; **Billet**, 2.

Pleistophora periplanetae; **Perrin**, 1.

(Recherches sur les Haplosporidies; **Caullery** et **Mesnil**.)

On the structure of *Rhinosporidium kinealyi*; **Beattie**.

Sur la biologie et la spécification des *Amœbidium*; **Chatton**, 2; morphologie de l'*Amœbidium reticola*; **Chatton**, 3.

(c.) of MASTIGOPHORA.

A new Chrysomonad, *Palatinella* n. g.; **Lauterborn**, 1.

A new *Herpetomonas*, *H. algeriense*; **Sergent**, E. and E., 2.

Herpetomonas-like parasites; **Balfour**, 1.

Mosquito Trypanosomes (*Herpetomonas* and *Crithidia*), cultural forms; **Novy**, **MacNeal** and **Torrey**.--Tsetse-fly Trypanosomes (including *Typanosoma grayi* n. sp.; **Novy**.

Comparative morphology of the Trypanosomes met with in *Glossina palpalis*; **Minchin**, **Gray** and **Tulloch**.

Trypanosomes of frogs; **França** and **Athias**, 2.

Different forms of a Trypanosome of bats; **Nicolle and Comte, 1.**

Curious morphological features in *Trypanosoma brucei*; notes on other Haematozoa; **Robertson, 1.**

Morphology of *T. pestanai* and *T. vesperilionis*; **Bettencourt and França, 1, 2**; *T. rotatorium*; **Bouet**; *T. theileri*, as observed in oxen in Transcaucasia; **Luchs.**

A Trypanosome and a new intracorpuseular parasite from the mole; **Thomson.**

Structure of *Trypanoplasma borreli*; **Keysseltz.**

Formenkreis von *Peridinium depressum*; **Brock, 2.**

On the structure of *Gonyaulax triacantha*, Jörg; **Kofoed, 5.**

Morphology of *Triposolenia*, a new Dinoflagellate; **Kofoed, 2.**

Pyrodinium, a new genus of Dinoflagellates; **Plate.**

A new Rhynchoflagellate, *Radiosium lobatum* n. g., n. sp.; **Mingazzini.**

(d.) of CILIOPHORA.

Notes on certain aspirotrichous Infusoria; **Scheuteden, 1.**

Structure of *Epistylis gasterostei* n. sp.; **Fauré-Fremiet, 2.**

Beiträge zur Kenntnis von: *Campanella umbellaria* L. sp. (*Epistylis flavicans* + *grandis* Ehrbg.); **Schröder, 1**; *Epistylis plicatilis* (Ehrbg.); **Schröder, 2**; *Vorticella monilata* Tatem; **Schröder, 4**; *Stentor coerules* Ehrbg. und *St. roeselii* Ehrbg.; **Schröder, 5.**

A new Vorticellid, *Opisthocyta heneguyi*; **Fauré-Fremiet, 7.**

Detailed account of *Trichodinopsis paradoxa*; **Issel.**

Orientation of the body in *Opalina*; **Kunstler and Gineste, 2.**

Structure of: *Ophrydium versatile*; **Fauré-Fremiet, 8**; *Tintinnoidium inquinum*; **Fauré-Fremiet, 9**; *Dendrosomides*, a new Acinetarian; **Collin.**

Minute structure; special anatomy.

(a) Test, shell, etc.

On the tests of certain new freshwater Rhizopods; **Averintzev, 3.**

Die Struktur und die chemische Zusammensetzung der Gehäuse bei den Süßwasserrhizopoden; **Averintzev, 4.**

Finer structure of the test of *Arcella*; **Cushman and Henderson.**

Étude sur la *Clypeolina marginata*, Rhizopode avec coquille à deux valves; **Penard.**

General structure of Foraminiferan shells; **Lister.**

Sur la structure du test dans les Fusulines; **Douvillé, 1**; structure of shell in *Orbitolina*; **Douvillé, 5.**

Sur la formation du réseau des Nummulites réticulées; **Boussac, 1, 3.**

Ueber die Mittel der Formbildung im Radiolarienkörper; **Häcker, 3.**

Chemical nature of the skeletal substance of Acantharia; **Bütschli, 1.**

Presence of a spherical skeleton or test, in addition to spines, in *Acanthocystis pertyana*; **Lord.**

Skeletal structure of *Acanthometridae*; **Mielck**: Of the *Acanthophracta*; **Popofsky, 2.**

La paroi sporale des Myxosporidies; **Léger et Hesse.**

Structure and arrangement of the skeletal plates in *Gonyaulax triacantha*; **Kofoed, 5.**

(b.) Cytoplasm and Nucleus.

Sur la structure intime du protoplasma chez les Protozoaires; **Fauré-Frémiat, 1.**

Protoplasm of Protozoa; discussion with regard to terms "spherule," "spheroplast," &c.; **Fauré-Frémiat, 3.**

Intimate structure of the cytoplasm in Protozoa; the nature of spherules or *spheridia* (for "spheroplasts"); **Kunstler, 1.**

Les sphérules chromophiles chez les Protozoaires; **Kunstler et Gineste, 5.**

Unispherular nuclei among *Amoebae* and Flagellates; **Kunstler, 2.**

Nuclear structure in the Foraminifera; **Lister**.

Minute structure of certain Nummulites; **Boussac**, 2.

Variety of nuclear structure in *Aggregata*; **Moroff**, 2.

Histological study of the malarial parasites; **Pezopoulo** and **Cardamati**.

Structure and chemical constitution of paramylum (*Euglena*); **Bütschli**, 2.

Les sphérules trophoplasmiques des Infusoires ciliés; **Kunstler** et **Gineste**, 6.

(Differenziazioni citoplasmatiche nel *Cryptochilum echini* (Maupas); **Russo** e **Di Mauro**, 2.)

Le *Glaucoma pyriformis* et l'organisation de la substance vivante; **Fauré-Frémiet**, 15.

Minute structure of *Opalina dimidiata*; **Kunstler** et **Gineste**, 3.

Histologische Beobachtungen über Paramaecien; **Chainskij**.

Formation of perivacuolar membranes around the food-vacuoles, in Ciliates; **Kunstler**, 3.

Food-vacuoles of Vorticellids, and their alteration during digestion; **Fauré-Frémiet**, 6.

Ueber die Augen der Tiere; **Haselbach**.

PHYSIOLOGY. 0411

General.

Biological considerations on the life-history of Protozoa; **Calkins**, 1-3.

Beobachtungen über das Leben der Protozoen; **Oelzelt-Newin**.

Das einfachste Tier (ungarisch); **Entz**, 1, 2.

On the vitality of resting cysts and spores of Protozoa, and their resistance under different conditions; **Certes**.

General account of physiology of fresh-water Rhizopods; **Averintzev**, 1.

Physiological considerations concerning *Volvox aureus*; **Stempell**.

Metabolism.

Nutrition and its relation to nuclear constitution in *Didinium nasutum*; **Prandtl**.

Das Leben ohne Sauerstoff; **Kulagin**.

Senescence, recuperation.

(Significance of the meganuclear fragmentation in *Cryptochilum echini* with regard to senile degeneration; **Russo** and **di Mauro**, 1.)

(Recuperation in *Cryptochilum*; **Russo** and **di Mauro**, 3.)

Recuperation in Protozoa; **Calkins**, 6 and 7.

Sexual relations.

(Physiological significance of conjugation in the life-cycle of Protozoa; **Calkins**, 7.)

On the conditions which determine conjugation among Infusoria; **Enriques**.

Significance of association in Gregarines; **Woodcock**, 1.

Movement.

The mode of movement in *Amoeba* and *Dictyoglia*; **Dellinger**.

Amoeba blattae and amoeboid motion; **Gerould**.

Energy of the ciliary movement of the adoral zone of Vorticellids, and its significance; **Fauré-Frémiet**, 5.

Environmental effects; adaptation.

Influence of surface-evaporation upon the distribution of Infusoria in a confined medium; **Robertson**, T. B., 2.

Modifications in living protoplasm (e.g., of *Opalina*), produced by variations in the environmental conditions (in this case in the host); **Kunstler** and **Gineste**, 1.

Physiologische Beobachtungen über Paramaecien; **Chainskij**.

De la persistante vitalité de l'hématozoaire de Laveran dans le cadavre humain; **Gillot**.

Vitalité du Trypanosome de la Dourine dans les conditions artificielles; **Yakimoff**.

On the significance of the asymmetry in *Triposolenia* (adaptive to flotation); **Kofoed**, 4.

Effects of various rays on Trypanosomes; **Ross**, 3.

Ein für *Trypanosoma brucei* spezifisches Serum und seine Einwirkung auf *Trypanosoma gambiense*; **Kleine und Möllers**.

Reactions of Infusoria to chemical and osmotic stimuli; **Robertson, T. B.**, 1.

Galvanotropismus und Galvanotaxis der Ciliata. Mitt. 4-5; **Statkewitsch**.

Chemical and physical effects produced in *Glaucoma* by anaesthetizing; **Fauré-Fremiet**, 4.

The behavior of *Paramecium*. Additional features and general reactions; **Jennings**.

Der Einfluss verschiedener Narcotica, Gase und Salze auf die Schwimmgeschwindigkeit von *Paramecium*; **Nagai**.

Relation of Infusoria (*Paramecium* and *Colpidium*) towards certain ions (OH and H) in their medium; **Peters and Rees**.

Reactions of *Stentor coeruleus* to light; **Mast**.

DEVELOPMENT AND RE- 0415 PRODUCTION.

Life-cycle of the Protozoa; **Calkins**, 1-3.

(a.) SARCODINA.

Life-cycle of *Myxomonas betae*, a new Mycetozoon; **Brzezinski**.

Die Süßwasser-Rhizopoden; **Averintzev**, 1.

Encystment in fresh-water Rhizopods; **Averintzev**, 5.

Plasmodiogenie, eine Vermehrungsart der niedersten Protozoen. Nach den Untersuchungen an mehrkernigen Formen von *Amœba proteus*; **Stolc**.

Ueber die Fortpflanzung von *Pelomyxa palustris*; **Bott**: Ueber eine eigenartige Form der Fortpflanzung bei *Pelomyxa palustris*; **Korschelt**.

Life-cycle of the Foraminifera; **Lister**.

Development of certain nummulites from young stages; **Boussac**, 2.

(b.) SPOROZOA.

Sur l'évolution des Grégarines gymnosporées des Crustacés; **Léger et Duboscq**, 1.

Development (schizogony) of *Aggregata eberthi* [= *Eucoccidium e.*] of the cuttle-fish, in a crab (*Portunus*); **Léger and Duboscq**, 2.

Modes of nuclear division in *Aggregata*; **Moroff**, 2.

Eleutheroschizon duboseqi, Sporozoaire nouveau; **Brasil**, 1.

Nouvelles recherches sur la reproduction des Grégarines monocystidées; **Brasil**, 2.

Stages in life-history of *Cystobia chiridotae* and *Hyalosphaera gregarini-cola*; **Dogiel**.

Life-cycle of *Diplodina* (*Cystobia*) *irregularis*; **Woodcock**, 1.

Étude sur *Taeniocystis mira* Léger, Grégarine métamérique; **Léger**, 3.

Untersuchungen über Coccidien. I. *Adelea zonula* nov. sp.; **Moroff**, 3.

Sur l'évolution des prétendues Coccidies des Céphalopodes; **Moroff**, 1.

Ueber eine Coccidienart, *Orcheobius herpobdellae* nov. gen. nov. sp.; **Schuberg und Kunze**.

Intracorpuseular conjugation in malarial parasites; **Craig**.

Developmental phases of *Leucocytozoon canis*; **Christophers**.

Beiträge zur Entwicklungsgeschichte der Piroplasmen; **Koch**.

Zur Kenntnis von Entwicklung der Babesien (Piroplasmen); **Lühe**, 2.

Sexual phenomena in *Myxobolus Pfeifferi*; **Mercier**, 1.

Development of spores in *Myxobolus Pfeifferi*; **Mercier**, 2.

Cyst and spores of *Myxidium giardi* n. sp.; **Cépède**, 2.

Spores of *Chloromyxum cristatum* and *C. truttiae*, n. spp., and their development; **Léger**, 1, 2.

Pansporoblasts and spores of a new Microsporidian, *Pleistophora macrospora* n. sp.; **Cépède**, 1, 2.

Observations on the life-history of *Pleistophora periplanetae*; **Perrin**, 1, 2.

Sur une Microsporidie du Talitre; **Mercier**, 4.

(Recherches sur les Haplosporidies; **Caullery et Mesnil**.)

Stages in life-cycle of *Amurosporidium*, a new Haplosporidian; **Caullery** and **Chappellier**.

Sur la biologie des *Amœbidium*; **Chatton**, 2.—Sur l'évolution de l'*Amœbidium recticola*, nouvelle espèce commensale des Daphnies; **Chatton**, 3.

(c.) MASTIGOPHORA.

Development and life-cycle of Haematozoa of salt-water fish, general account as so far known; **Lebailly**.

Herpetomonas-like parasites; **Balfour**, 1.

The development of the "*Hepatomonas*" [*Herpetomonas*] of Kala-Azar, from Leishman - Donovan bodies; **Rogers**.

Modes of development of certain Piscine Trypanosomes in leeches; **Brumpt**, 1, 2.

(Hémoflagellés des poissons d'eau douce. Leur forme dans les sangsues; **Léger**, 7.)

Researches on the life-history of "*Trypanosoma*" [*Spirochaeta*] *balbianii* (Certes); **Perrin**, 3.

Developmental-phases of *Trypanosoma duttoni*, observed in the foetus; **Pricolo**.

Phenomena of division in *T. rotatorium*; **Franca** and **Athias**, 1.

Multiplication and developmental forms of *T. theileri*; **Luhs**.

Generations- und Wirtswechsel von *Trypanoplasma borreli* Laveran et Mesnil; **Keysseltz**.

Beobachtungen an *Volvox aureus* Ehrbg. (= *minor* Stein); **Stempell**.

Beiträge zur Kenntnis der Peridineen; **Dogiel**.

Pyrocystis lunula und ihre Fortpflanzung; **Apstein**.

Les Blastodiniides, ordre nouveau de Dinoflagellés parasites; **Chatton**, 1.

(d.) CILIOPHORA.

(Life-history of Protozoa. IV Death of the A Series (*Paramœcium*)—Cycles of generations; **Calkins**, 7.)

Life-history of hypotrichous Infusoria; **Woodruffe**.

Ueber die Konjugation der Infusorien; **Versluys**.

(Frammentazione del macronucleo nel *Cryptochilum echini* (Maupas); **Russo e Di Mauro**, 1.)

(La coniugazione nel *Cryptochilum echini*, Maupas; **Russo e Di Mauro**, 3.)

Konjugation von *Didinium nasutum*; **Prandtl**.

Ungeschlechtliche und geschlechtliche Fortpflanzung der Tintinnen; **Laackmann**.

On sexual differentiation among Vorticellids; **Enriques**.

ETHIOLOGY. 0419

General.

Die Süßwasser-Rhizopoden; **Averintzev**, 1.

Luminosity.

Pyrodinium bahamense n. g., n. sp., die Leucht-Peridinee des „Feuersees“ von Nassau, Bahamas; **Plate**.

Plankton.

Zur Charakteristik des Phytoplanktons temperierter Meere; **Schröder**, B.

Fresh-water Mastigophora occurring in the sea; **Lemmermann**, 2.

Protozoan plankton of certain Irish Lakes; **West** and **West**.

Protozoan plankton from the Elbe in 1901 and 1905 compared; **Volk**.

Protozoa from a churchyard font near Plön; **Zacharias**, 2.

Flagellata, ponds near Bremerhafen; **Lemmermann**, 1.

Various lakelets, East and West Prussia; Protozoa; **Krause**.

Protozoan winter-plankton, 2 lakelets of Southern Finland; **Levander**, 1.

Plankton-Untersuchungen in norwegischen Seen; **Huitfeldt-Kaas**.

Protozoa (mostly Flagellata) from Lake Valkea-Mustajärvi, near Enois; **Levander**, 2.

Lakelets near Lunz, Nieder-Oesterreich, Protozoa; **Woltereck**.

Dinoflagellates, certain lakes in the Eastern Alps; **Brehm** and **Zederbauer**.

Protozoan plankton from various lakes in Istria and Dalmatia; **Car**.

Formation of large slimy masses in the Adriatic Sea, off Trieste, by *Peridinium*; **Cori**.

In ponds of Madrid, *Glenodinium pusillum*; **Forti**.

Periodicity, variation, and distribution of various plankton-organisms in South European seas; **Zacharias**, 4.

Atlantic Ocean (Plankton-Exped. Humboldt-Stiftung), *Atlanticella*, a new Triplarian; **Borgert**, 2.

Medusettidae from Atlantic Ocean and elsewhere (Plankton-Exped. Humboldt-Stiftung), tables of distribution; **Borgert**, 3.

Atlantic and Pacific Oceans (Plankton-Exped. Humboldt-Stiftung), *Tuscaroriidae*; **Borgert**, 1.

Atlantic Ocean ("Valdivia"-Expedition), Dinoflagellates; **Karsten**.

Indian and Atlantic Oceans, *Acanthometridae*; **Popofsky**, 1.

Die Acantharia der Plankton-Expedition. Teil: *Acanthophracta*. (Ergebn. Plankton-Exped. Humboldt-Stiftung); **Popofsky**, 2.

Eine Anzahl Tintinnen aus dem Plankton der Bucht von Rio de Janeiro; **Bresslau**.

San Diego region, *Heterodinium* and *Triposolenia*, new Dinoflagellates; **Kofoed**, 1, 2.

Psychology.

Ueber verständiges Tun niederer Tiere [Radiolarien]; **Henzen**.

Commensalism.

Le commensalisme spécifique chez les Vorticelles d'eau douce; **Fauré-Frémiet**, 10.

Le commensalisme des *Opercularia*; Le facteur mouvement et les facteurs de la spécificité; **Fauré-Frémiet**, 11, 12.

Parasitism.

General.

Wirtswechsel und Vererbung bei Protozoeninfektionen; **Loewenthal**.

Urtierchen als Parasiten und Krankheitserreger; **Thesing**.

Plantae.

In the beetroot, tissues of all the members, both intra- and inter-cellular, *Myxomonas betae* n. g., n. sp.; **Brzezinski**.

Sporozoa.

In *Cystobia chiridotae*, *Hyalosphaera gregarinicola* n. g., n. sp.; **Dogiel**, 1.

Echinozoermata.

In respiratory trees and body-cavity of *Cucumaria pentactes* and *C. planci*, *Diplodina minchinii*; **Woodecock**, 1.

Cystobia chiridotae nov. sp.; **Dogiel**, 1.

Rotifera.

In a South African Rotifer, *Bertramia kirkmani* sp. nov.; **Warren**.

Platyhelminthia.

In sporocysts of a Trematode ("*Cercaria*" [*Brachycoelium*] *lutea*), itself parasitic in *Donax*, a new Haplosporidian, *Anurosporidium*; **Caullery** and **Chappellier**.

Monocystidée nouvelle de *Pheretima*; **Hesse**, 1.

Chaetopoda.

(Sur un nouveau *Myxozystis* des Oligochètes; **Hesse**, 3.)

Hirudinea.

Expériences relatives au mode de transmission des Trypanosomes et des Trypanoplasmes par les Hirudinées (*Hemiclepsis*); **Brumpt**, 3.

In testes of *Nephelis vulgaris* (*Herpobdella atomaria*), a new Coccidian, *Orcheobius herpobdellae*; **Schuberg** and **Kunze**.

Crustacea.

Parasitic in the eggs of Copepods, *Gymnodinium parasiticum* sp. n.; **Dogiel**, 2.

In various Copepods, intestine, *Blas-todinium*, a new Dinoflagellate; **Chatton**, 1.

Sur un Amœbien parasite des embryons de *Peltoaster curvatus* Kossm; **Caulleury**.

Sur une Microsporidie du Talitre (*Amphipoda*); **Mercier**, 4.

Ectoparasitic on *Eupagurus* spp., *Dendrosomides*, a new Acinetarian; **Collin**.

Sur l'évolution des Grégarines gymnosporées des Crustacés; **Léger** et **Duboscq**, 1.

In *Portunus depurator*, forming coelomic cysts, *Aggregata* (= *Eucoccidium*) of the eutle fish; **Léger** and **Duboscq**, 2.

Sur quelques Microsporidies parasites des Crustacés; **Pérez**, 2 and 3.

Ovaries of crab attacked by *Microsporidia* (*Thelohania moenadis*); **Pérez**, 1.

Myriapoda.

Eleutheroschizon duboseqi, sporozoaire nouveau parasite des *Scoloplos armiger* O. F. Müller; **Brasil**, 1.

Insecta.

(Myxosporidies nouvelles des Insectes; **Hesse**, 2.)

Gregarina socialis sp. n., from larvæ of *Eryx ater*; **Léger**, 3.

Fat bodies of *Blaps mortisaga* (larva) *Adelea zonula* n. sp.; **Moroff**, 3.

Pleistophora periplanetae from Malpighian tubules of *Periplaneta orientalis*; **Perrin**, 1, 2.

Sur le second hôte (*Lynchia maura*) de l'*Hæmoproteus* (*Halteridium*) du pigeon; **Sergent** et **Sergent**, 3.

Flagellate parasite (probably *Crithidia*) in *Culex fatigans*; **Ross**, 1.

Parasites of mosquitoes (*Culex*) in India; **Ross**, 2.

In *Culex pipiens* and *Stegomyia fasciata*, females, *Herpetomonas algeriense* n. sp.; **Sergent**, E. and E., 2.

Herpetomonas-like parasites in fleas (*Pulex eleopatrae*); **Balfour**, 1.

Relation of *Trypanosoma gambiense* and other Trypanosomes to *Glossina palpalis*; **Minchin**, **Gray** and **Tulloch**.

Expériences d'infection de trypanosomiase (probablement *T. gambiense*) par des *Glossina palpalis* infectées naturellement; **Cazalbou**.

Tsetse-flies and Trypanosomes, ticks and *Piroplasmata*; **Koch**, 2.

Tsetse-flies and "fly-Trypanosomes"; **Novy**.

On destruction of the ovary and castration in Termites, due to parasitic Protozoa; **Brunelli**.

Arachnida.

Alternate host of the Haemogregarine of *Testudo ibera* is probably *Hyalomma syriacum* (*H. affine*); **Popovici-Bazosanu**.

In dog-tick (*Rhipicephalus sanguineus*), *Leucocytozoon canis*; **Christophers**.

Mollusca.

Un nouveau *Nematopsis* parasite des moules de la Méditerranée; **Léger**, 4.

In *Octopus* sp., *Eucoccidium jacqueti* n. sp.; **Moroff**, 1.

Pisces.

In African fish, *Bagerus bayard*, *Lynodontis schal*, and *Mugil* sp., Trypanosomes, spp. incert.; **Neave**.

In an African fish (*Clarias angolensis*), Haemoflagellates; **Dutton**, **Todd** and **Tobey**, 3.

New Myxosporidian (*Henneguya acerinae*) from gills of *Acerina cernuae*; **Schröder**, 3.

In *Alosa finta*, gills and branchial tissue, *Caprina aurantiacea*, a new Ciliate, and *Branchiophaga alosi-ida*, a new Myxosporidian; **Mazzarelli**, 1 and 2.

In kidney of an eel (*Anguilla vulgaris*), *Myxidium giardi* n. sp.; **Cépède**, 2, 3.

In an eel (*Anguilla vulgaris*?), a new *Haemogregarina*; **Laveran**, 3.

In *Cobitis barbatula*, kidneys and bladder, *Myxidium barbatulae* and *Henneguya legeri* n. spp.; **Cépède**, 3.

In muscular wall of abdomen, *Cobitis barbatula*, *Pleistophora macrospora* n. sp.; **Cépède**, 1, 2.

In head of *Gadus aeglefinus*, a new species of *Myxobolus*; **Auerbach**.

In flounder (*Pleuronectes flesus*), gall-bladder, *Leptotheca agilis*; **Robertson, M., 2**.

In the following fish, new species of *Trypanosoma*, viz.: *Barbus fluvialtilis*, *T. barbi*; *Perea fluvialtilis*, *T. pereae*; *Acerina cernua*, *T. acerinae*; *Phoxinus laevis*, *T. phoxini*; *Cottus gobio*, *T. langeroni*; *Scardinius erythrophthalmus*, *T. scardinii*; *Leuciscus* sp., *T. leucisci*; *Gobio fluvialtilis*, *T. elegans*; *Squalius cephalus*, *T. squalii*; **Brumpt, 1**.

In the following fish, new species of *Trypanoplasma*, viz.: *Barbus fluvialtilis*, *T. barbi*; *Abramis brama*, *T. abramidis*; *Salmo fario*, *T. truttiae*; **Brumpt, 2**.

In gall bladder of tench (*Tineu*), *Chloromyxum cristatum* n.sp.; **Léger, 2**.

In *Trutta fario*, gall-bladder, and conn. tissue, *Chloromyxum truttiae* n. sp.; **Léger, 1**.

(Myxosporidies des Poissons des Alpes françaises; **Cépède, 5**.)

Deux nouvelles Myxosporidies parasites des Poissons d'eau douce; **Léger, 6**.

Trypanoplasma borreli, in relation to its hosts (fish and leeches); **Keyszelitz**.

Amphibia.

In a Somali toad (*Bufo reticulatus*). *Trypanosoma somalense* n.sp.; **Brumpt, 2**.

In *Rana esculenta*, *Trypanosoma elegans* and *T. undulans* n. spp.; **Franca and Athias, 2**.

The host of *Haemogregarina neireti* is *Rana mascarenensis*; **Laveran, 1**.

Reptilia.

Sur une Hémogrégarine karyolytante d'un lézard (*Mabuia vittata*); **Nicolle et Comte, 2**.

Sur une Hémogrégarine de *Varanus griseus*; **Nicolle et Comte, 3**.

Protozoaires parasites des Vipères (*Vipera aspis*); **Léger, 5**.

In an African python, *Trypanosoma pythonis* sp. n. [really a *Haemogregarine*]; **Robertson, M., 1, 2**.

Aves.

In blood of an African stork (*Leptoptilus*), a *Halteridium* regarded as new; **Hirst**.

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In African birds, vultures (*Neophron percnopterus*) shrike (*Laniarius cruentus*), *Trypanosomes* spp. incert.; **Neave**.

In guinea-fowl (*Numida pitlorhyncha*), a "*Haemamoeba*" resembling "*H.*" (*Leucocytozoon*) *ziemanni*; **Neave**.

Mammalia.

Protozoan parasite in polymorphonuclear leucocytes of a dog; **Gerrard**, also **Wenyon**.

Trypanosomiasis beim Schweine (*Trypanosoma suis* n. sp.); **Ochmann**.

Trypanosoma theileri in oxen in Trans-Caucasia; **Luchs**.

Trypanosomes and new intracorpusecular parasites in a mole; **Thomson**.

A *Haemogregarine* from a Mammal (*Jaculus, jerboa*); **Balfour, 3**.

A *Leucocytozoon* from the rat; **Balfour, 4**.

In white rats (*Mus rattus*) *Piroplasma muris* n. sp.; **Fantham**.

In rats (*Mus rattus*), leucocytes, a *Leucocytozoon*; **Adie**. — In *Mus decumanus*, a *Leucocytozoon* (perhaps *L. ratti*); **Cleland**.

In white blood-corpuscles of palm-squirrels, *Sciurus palmarum* (= *Funambulus pennantii*), *Leucocytozoon funambuli* n. sp.; **Patton**.

In an Antelope, *Trypanosoma theileri*; **Dutton, Todd and Tobey, 1**.

Occurrence of endoglobular parasites ("ringförmige") and Trypanosomes in bats (*Vesperugo pipistrellus*); **Kisskalt**.

Haematozoa in a bat (*Vespertilio cypensis*); **Bowhill**.

In *Vesperugo külli*, "*Achromaticus*" *vesperuginis*); **Gonder**.

Haematozoa of bats; **Schingareff**.

In a Monkey (*Cercopithecus*) a Trypanosome sp. incert; **Dutton, Todd and Tobey, 1**.

Remarks on parasitism and symbiosis of the pathogenic *Amœbae*; **Musgrave and Clegg**.

From typhus stools, a new *Balantidium*; **Krause**.

Un cas de présence des Flagellés dans les excréments humains; **Zaleski**.

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Variation, etc.

Les cultures de Protozoaires et les variations de la matière vivante; **Kunstler et Gineste, 4.**

Variation and correlation in *Chilomonas* under favourable and unfavourable conditions; **Pearl, 2.**

Paramœcium aurelia and mutation (*P. caudatum*, a variant of *P. a.*); **Calkins, 4, 5.**

Variation and correlation in conjugating and non-conjugating individuals of *Paramœcium caudatum*; **Pearl, 1.**

A case of monstrosity in *Stentor coeruleus*; **Fauré-Fremiet, 14.**

Experimental variation of *Vorticella microstoma* (into "*V. hians*"; **Fauré-Fremiet, 13.**

On the abundance and variety of Radiolarian species, as bearing upon the Darwinian theory; **Zacharias, 5.**

Classification and Phylogeny.

Evolution and phylogeny of the *Nummulitidae*; **Douvillé, 3.**

Phylogeny of *Nummulites*—2 chief types; **Boussac, 3.**

Classification and phylogeny of the *Acanthophracta*; **Popofsky, 2.**

Relationship of *Amœbidium* is to the Thallophytes (*Fungi*), rather than to the Sporozoa; **Chatton, 2.**

Phylogeny of Trypanosomes discussed; **Woodcock, 2.**

On the origin of the *Urceolaridae*; **Fauré-Fremiet, 2.**

DISTRIBUTION (GEOGRAPHY).

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Geographical Distribution of fresh-water Rhizopods; **Averintzev, 1 and 5.**

Europe.

Lough Larne and District, Foraminifera; **Gough, 1 2.**

North Sea, a new Tripylarian; **Brock, 1.**

Protozoa on the ice-floes of the North Polar sea; **Nansen.**

Foraminifera from the bottom samples and the mud from the ice-surface in the North Polar sea; **Kiær, 1.**

In the Marne (Rheims), *Ophrydium versatile*; **Topsent.**

Upper Rhine district (Rheinpfalz, Heidelberg), Protozoa, incl. *Pleodorina illinoisensis*, *Cycloncris annularis*, *Placocysta spinosa*, and *Paulinella chromatophora*; **Lauterborn, 2.**

Protozoa from large Moritzburg pond, near Dresden; **Schorler, Thallwitz and Schiller.**

East-Prussia, moss bogs and swamps, Rhizopods; **Sellnick.**

Rhizopoda from lakelets in the Massif of Rutor, Graian Alps; **Monti.**

Protozoa from Lake of St. Blaise (Neuchâtel); **Thiébaud.**

Protozoan fauna from ponds in the Jura (Neuchâtel); **Thiébaud and Favre, 1 and 2.**

Lake of Lucerne, Protozoa; **Zschokke.**

A new Dictyochid from the Adriatic, *Hermesinum adriaticum*, n.g., n.sp.; **Zacharias, 1.**

Isle of Delos, Grecian Archipelago, Recent Foraminifera; **Sidebottom.**

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Aralsee, Foraminifera; **Kiær, 2.**

Turkestan, Protozoa; **Daday, 1.**

Indian Ocean, off Ceylon, Foraminifera; **Dakin.**

Mongolia, Protozoa; **Daday, 2.**

Ind. Néerl. Or., Xenophyophoren der Siboga-Expedition; **Schulze, 1.**

Australasia.

Foraminifera obtained off Great Barrier Island, New Zealand; **Chapman.**

(Australian sands, Foraminifera; **Jensen.**)

Foraminifera von Laysan und den Chatham-Inseln. (Ergebnisse einer Reise nach dem Pacific. Schauinsland 1896 1897); **Rhumbler.**

America.

Nantucket, fresh-water Rhizopods **Cushman.**

Iowa, Protozoa; **Edmondson.**

San Diego region, Dinoflagellata; **Kofoed, 1, 2.**

Paraguay, fresh-water microfauna; **Daday, 4.**

Oceanic.

Atlantic, Indian and Pacific Oceans, *Xenophyophora* from the "Albatross" Expedition; **Schulze, 2.**

"Valdivia" deep-sea expedition (chief oceanic regions), Tripylaria; **Häcker, 1-4.**

Pacific Ocean, coasts of New Pomerania, *Acanthometridae*; **Mielck.**

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Nummulites characteristic of different geological basins and horizons; **Douvillé, II, 2 and 3.**

Succession of *Lepidocyclus* in the Piedmontese "basin"; **Douvillé, R.** and **Prever.**

On the Value of *Lepidocyclus* and *Mioquipsina* in the determination of stratigraphical horizons; **Sacco, 1.**

Distribution, geographical and geological, of *Lepidocyclus marginata* (Michel.), *sens. incl.*; **Silvestri, 2.**

Distribution, geographical and geological, of *Textularia gibbosa* d'Orb.; **Silvestri, 3.**

Geological and geographical distribution of *Fusulina*-species; **Yabe.**

Birregurra and Campbell's Point (near Geelong), Australia, horizon not given, Foraminifera; **Mulder, 1, 2;** also (locality not given); **Brady and Mulder.**

Notes on the geological distribution of Foraminifera, Radiolaria, Silicoflagellata and *Coccolithophoridae*; **Stromer.**

Quaternary.

Pleistocene clays and sands, Isle of Man, Foraminifera; **Reade and Wright.**

Pleistocene, Maryland, Foraminifera; **Clark.**

Tertiary.

Sur quelques gisements nummulitiques de Madagascar; **Douvillé, 2.**

In "Viseen" limestones, Namur, a new order of fossil organisms, *Spongiostrumaceae*; **Gärlich.**

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Geological distribution of *Orthophragminae* and *Orbitoidae*, as bearing upon the correct horizon of the "Flysch"; **dal Lago.**

Foraminiferenfauna der Tertiärschichten von Biarritz; **Liebus.**

Nummulitic zones (Tertiaries), Gas-sino and Biarritz, Foraminifera; **Prever.**

Tertiaries, Piedmont, Foraminifera; **Sacco, 2.**

Tertiary, Kienthaler Alps, *Globigerina*-ooze; **Gerber.**

Lower Tertiary ("Kalkmergel"), King William's Land, (German New Guinea), Radiolaria; **Haupt.**

Miocene and Pliocene ("trubi"), Bonfornello (near Palermo), Foraminifera; **Silvestri, 4.**

Upper Miocene, Batangas Province, (Philippines), *Orbitoides martini* sp. n.; **Smith, 2.**

Miocene, Monte Titano (San Marino), Foraminifera; **Nelli.**

Binangonan limestone (Miocene), Manila, *Orbitoides*; **Smith, 1.**

Oligocene, Apennines (Modena), "*Orbitoides gumbelii*" and other Foraminifera; **Silvestri, 1.**

Oligocene ("Septarienton"), Wonsheim, (Rhenish Hesse), Foraminifera; **Stoltz.**

Oligocene, Bavaria, Foraminifera; **Stuchlik.**

Eocene and Miocene, Monte Sirente, Central Apennines, *Nummulitidae*; **Cassetti.**

Eocene and Miocene, S. Marino, Foraminifera; **Trabucco.**

Eocene, Alicante, *Nummulitidae*; **de Cisneros.**

Eocene *Lepidocyclus*, doubts with regard to alleged existence; **Douvillé, R., 1.**

Eocene (Bartonian), Prahova (Romania), Foraminifera; **Mrazek.**

Middle Eocene, "Plana de Vich," Spain, *Nummulites*; **Almera, 1, 2.**

Eocene, Sicily, *Lepidocyclus* n. spp.; **Checchia-Rispoli, 1.**

Eocene, Capo S. Andrea (Taormina), Foraminifera; **Checchia-Rispoli, 2.**

Eocene, New Caledonia, *Nummulitidae* and *Orbitoidae*; **Deprat.**

Eocene (Nummulitic limestones), Madagascar, *Nummulites* and *Orthophragmina*; **Douvillé, R. 2.**

Eocene, Rieti, *Nummulitidae*; **Lotti.**

Eocene, Beaulieu, occurrence of *Nummulites*; **Mauzy and Caziot.**

Eocene (Nummulitic zones), Valleys of the Gurk and Görtscitz, (Austria), *Nummulitidae*; **Redlich.**

Eocene, Basin of Lake Trasimeno, Foraminifera; **Ristori.**

Eocene, Penisola Salentina (provincia di Lecce), *Nummulitidae*; **di Stefano.**

Mesozoic.

Upper Cretaceous, Eastern Rhaetikon, *Globigerinae*; **v. Seidlitz.**

Upper Cretaceous, Upper Engadine, *Globigerinae*; **Zoeppritz.**

Cretaceous, Persia, Foraminifera; **Douvillé, H., 6.**

Cretaceous, Tripoli, *Omphalocyclus macropora*; **Krumbeck.**

Cretaceous, Sac and Ida Counties, Iowa, Foraminifera; **MacBride.**

Cretaceous, Tarahuna (Tripoli), *Orbitolina* n. spp.; **Parona.**

Cretaceous, (Lower "Campanien"), South-East of France, Foraminifera; **Repelin.**

Lower Lias, near Gloucester, Foraminifera; **Richardson.**

Palaeozoic.

Cambrian, near Shantung, China, *globigerina* (?) *mantouensis* n. sp.; **Walcott.**

III.—SYSTEMATIC. 0431

PROTOZOA, GENERAL.

Microscopic fresh-water Protozoa from Mongolia; **Daday, Math. Termt. Ért., 24, (34-77).**

The Protozoa of Iowa. A study of species known to occur in the waters of this state; **Edmondson, Davenport, Iowa, Proc. Acad. Sci., 11, (1-124, pls.).**

General morphology of the higher Protozoa; **Kunstler and Gixeste, Paris, C.-R. Acad. Sci., 142, (294-296).**

Protozoa on the ice-floes of the North Polar Sea; **Nansen, Norw. North Polar**

Exp, Scientific Results, (Kristiania), 5, No. XVI, 1906, (22, 8 pls.).

Protozoa in plankton of certain Irish Lakes. **West and West, Dublin, Trans. R. Irish Acad., 33 (B), (77-116, pls. vi-xi).**

1. MYCETOZOA.

General account (continued); **TEMPÈRE, Microgr. Prépar. 14, (76-79, 240-252, pls. viii, xxviii).**

Leptophrys, (syn. *Vampyrella* spp.), notes on the genus; **KEPNER, Amer. Nat., 40, (335-312, text figg.).**

Myxomonas **gen. n.**, (allied to *Plasmodiophora*) *M. betae* **sp. n.**; **BRZEZINSKI, Kraków, Bull. Int. Acad., 1906, (139-202, pls. 2-6).**

2. SARCODINA (=GYMNOMYXA, RHIZOPODA, *sens lat.*).

(a) *Amoebaea* (= *Lobosa*, *Rhizopoda sens str.*).

Rhizopoda Testacea, classification and systematic account [in Russian]; **AYERINTZEV, St. Peterburg, Trav. Soc. Nat., 36, ii, (121-246, pl. v).**

Rhizopoda, systematic notes; **AYERINTZEV, Ann. Biol. lacustre, 1, (321-326).**

Beiträge zur Kenntnis der Süßwasserrhizopoden. (Vorl. Mitt.); **AYERINTZEV, Arch. Protistenkunde, 8, (112-119).**

Amoebina. Struktur und chemische Zusammensetzung der Gehäuse bei den Süßwasserrhizopoden; **AYERINTZEV, Arch. Protistenkunde, Jena, 8, (95-111).**

Fresh-water *Rhizopods* of Nantucket; **CUSHMAN, Amer. Nat., 40, (371-373).**

Lobosa Testacea, detailed classification and description (from *Averintzev's Memoir*); **SCHOUTEDEN, Ann. Biol. lacustre, 1, (327-382, 62 figg.).**

Amæba, Allgemein; **ENTZ, Termt. Közl., 38, (257-276, 12 Fig.); also, publ. sep. Budapest (Heller), 1906, (38, 12 figg.).—A. blattae and other Amæbae, description of movement; GEROULD, Science, (N. ser.), 23, (707-710).—A. paedophthora sp. n., from eggs of *Pelto-gaster*, described; CAULLERY, Paris, C.-R. soc. biol., 61, (266-268, 4 figs.).—A. proteus, plasmodiogony; ŠTOLC, Arch. EntwMech., 21, (111-125).**

Arcella m'itrata and *A. vulgaris*, structural details of test; CUSHMAN and HENDERSON, Amer. Nat. **40**, (797-809, text-figs.).

Averintzevia gen. n. (for *Heleopera*) *cyclostoma*; SCHOUTEDEN, Ann. Biol. lacustre, **1**, (357).

Clypeolina marginata, described; PENARD, Arch. Protistenkunde, **8**, (66-85, 10 text-figs.).

Coryria penardi sp. n. (= *C. coronata* var. *simplex* Penard), Gouv. Archangelsk; AVERINTZEV, St. Peterburg, Trav. Soc. nat., **36**.

Cucurbitella longula sp. n., Gouv. Novgorod; AVERINTZEV, St. Peterburg, Trav. Soc. nat., **36**, (177, figg. 71 and 72).

Diplugia septentrionalis sp. n., Russland; AVERINTZEV, Arch. Protistenkunde, **8**, (89); also, *id.*, St. Peterburg, Trav. Soc. Nat. **36**, ii, (208, figg. 73-75).

Entamoeba coli and *E. histolytica*, described; specificity of these 2 forms as regards harmlessness or pathogenicity questioned; McSGRAVE and CLEGG, Philippine Journ. Sci., **1**, (909-950, 10 figg.).—*E. histolytica*, the *Amaba* of dysentery, general account; RUGE, Handbuch der Tropenkrankh., hrsg. v. C. Mense, Bd III, 1, (1-21, 3 Taf.).

Leequereusia angulata, *L. extranea* spp. nn., Archangelsk; AVERINTZEV, Arch. Protistenkunde, **8**, (87-88). St. Peterburg, Trav. Soc. Nat., **36**, (172, figg. 67, 68).

Nebela spumosa (238, fig. 79), *N. maxima* (239, figg. 76-78), *N. pulcherrima* spp. n.; Archangelsk; AVERINTZEV, St. Peterburg, Trav. Soc. Nat., **36**, ii; also *id.* Arch. Protistenkunde, **8**, (90-93).

(*Paulinella chromatophora*, note on habits, structure and American occurrence; KEPNER, Biol. Bull., **9**, (128-129, with text-fig.))

Pelomyxa palustris, Bau und Fortpflanzung; BOTT, Arch. Protistenkunde, **8**, (120-158, mit 2 Taf.); also, Zool. Anz. **29**, (803-806).—*P. p.*, Fortpflanzung; KORSCHULT, Natw. Rdsch., **21**, (503-504).

Pyxidicula invisitata sp. n., Archangelsk; AVERINTZEV, Arch. Protistenkunde, **8**, (86); also, *id.*, St. Peterburg, Trav. Soc. Nat., **36**, (115, figg. 61-64).

Sexangularia gen. n., *S. parrula* sp. n., Gouv. Archangelsk; AVERINTZEV, St. Peterburg, Trav. Soc. nat., **36**, ii, (163, figg. 65-66).

(b) Foraminifera.

For lists of occurrence, etc., see under Geological Distribution.

†Foraminifera of the Salem limestone; BEEDE, Indiana, Rep., Dept. Geol. Nat. Res. **30**, (1201-1218, with pl.).

Sur la formation du réseau des Nummulites réticulées; BOUSSAC, Paris, C.-R. Acad. sci., **142**, (243-244).

Foraminifera, Great Barrier Island, New Zealand; CHAPMAN, Wellington, Trans. N. Zeal. Inst., **38**, (76-112, pl. 3).

Foraminifera, Indian Ocean, off Ceylon; DAKIN, Roy. Soc. Rep. Ceylon Pearl Fish. **5**, (225-242, 1 pl.).

†Sur quelques gisements nummulitiques de Madagascar. (Paléontologie de Madagascar II.); DOUVILLÉ, R. Ann. Paléont., **1**, (61-68, 1 fig.).

Foraminifera of Larne Lough and District; GOUGH, Sci. Investig., Dept. Agric. and Fisheries, Ireland, **3**, (10, 1 pl.), and **4**, (12).

(Foraminifera, Australian sands; JENSEN, Sydney, N.S.W., Proc. Linn. Soc., **29**, (810-831, 1 pl.))

Thalamophora from the North Polar sea; KLAER, Norw. North Polar Exp., Scientific Results, Kristiania, **5**, (No. XIV, App. II), 1906, (58-62).

†Foraminifera, Tertiary layers, Biarritz; LIEBUS, Wien, Jahrb. geol. Reichs-Anst., **56**, (351-366, 1 pl., 8 text-figg.).

Foraminifera, general account of life-history; LISTER, Nature, **74**, (400-406).

Foraminifera von Laysan und den Chatham-Inseln. (Ergebn. einer Reise nach dem Pacific); RUMBLER, Zool. Jahrb., Syst. **24**, (21-80, 4 pls.).

†Foraminifera from Lower Lias, Gloucester; RICHARDSON, Gloucester, Proc. Cotteswold Nat. F. Cl., **15**, (261).

Recent Foraminifera, Island of Delos (Grecian Archipelago); SIDEBOTTOM, Manchester, Mem. Lit. Phil. Soc., **50**, No. V, (18, 2 pls.).

†Ricerca strutturali su alcune forme dei trubi di Bonfornello (Palermo);

SILVESTRI, Roma, Mem. Acc. Nuovi Lincei, **22**, (235-276, 14 figg.).

Adelosina laysanensis **sp. n.**, Laysan ; RHUMBLER, Zool. Jahrb., Syst., **24**, (50, figs. 37, 38).

†*Ataxophragmium laceratum*, Tertiaries, Biarritz ; LIEBUS, Wien, Jahrb. Geol. Reichsanst., **56**, (358, fig. 6).

†*Bolivina lata* nom. nov., Tertiaries, Biarritz ; LIEBUS, Wien, Jahrb. Geol. Reichsanst., **56**, (357, fig. 2).

Brachysiphon **gen. n.**, near *Rhabdamina*, (83), *B. corbuliformis* **sp. n.**, (84, pl. 3, figs. 2 and 3), Gr. Barrier Id., N.Z. ; CHAPMAN, Wellington, Trans. N. Zeal. Inst., **38**.

†*Cassidulina oblonga* (= *C. globosa* ?), Tertiaries, Biarritz ; LIEBUS, Wien, Jahrb. Geol. Reichsanst., **56**, (357, fig. 5).

†*Clavulina gaudryinoides*, (249, figg. 3 and 4), *C. rudis* (259, figg. 8-10), Miocene and Pliocene ("trubi"), Bonfornello ; SILVESTRI, Roma, Mem. Acc. Nuovi Lincei, **22**.

†*Dentalina pauperata*, Tertiaries, Biarritz ; LIEBUS, Wien, Jahrb. geol. Reichsanst., **56**, (354, fig. 1).

Discorbina araucaria, Aralsee ; KLER, Taschent, Izv. Turk. Otd. Russ. Geogr. Obsč., **4**, (27-29). — *D. irregularis* **sp. n.** Chatham Is. ; RHUMBLER, Zool. Jahrb., Syst., **24**, (70, figs. 57-58).

†*Ellipsoidina*, and related forms, comparative notes on ; SCHUBERT, Centralbl. Min., **1906**, (641-645).

†*Ellipsopleurostomella russitanoi* **sp. n.**, Miocene and Pliocene ("trubi"), Bonfornello ; SILVESTRI, Roma, Mem. Acc. Nuovi Lincei, **22**, (257, fig. 7).

†*Fusulina*, synopsis of the subgenera of ; YABE, Tokyo, J. Coll. Sci., **21**, Art. 5, (1-36, with 3 pls.).

Fusulinidae, structure du test ; DOUVILLÉ, H., Paris, C.-R. Acad. sci., **143**, (258-261).

†*Globigerina* (?) *mntoensis* **sp. n.**, Cambrian, Shantung, China ; WALCOTT, Washington, Smithsonian Inst., Nation. Mus., Proc., **29**, (10).

Hauerina complanata **sp. n.**, Ceylon ; DAKIN, Roy. Soc. Rep. Ceylon Pearl Fish., **5**, (231, fig. 7).

†*Heteroclypeus* **nom. nov.** (for *Heterostegina cycloclypeus*), eine Uebergangsform zwischen *Heterostegina* und *Cyclo-*

clypeus ; SCHUBERT. Centralbl. Min., **1906**, (640-641).

Hyperammia calcilega **sp. n.**, Laysan ; RHUMBLER, Zool. Jahrb., Syst., **24**, (24, figs. 1, 2).

†*Karrerria lithothamnica*, Tertiaries, Biarritz ; LIEBUS, Wien, Jahrb. Geol. Reichsanst., **56**, (361, fig. 8).

(*Lagena laevis*, Montagu var., Wollongang ; JENSEN, Sydney, N.S.W., Proc. Linn Soc., **29**, (814, pl. xxvi, fig. 2).) *L. fasciata* var. *earinata* **var. n.** (7, pl. I, fig. 17), *L. inaequilateralis* var. *semicarinata* **var. n.** (10, pl. 2, fig. 7), *L. irregularis* **sp. n.**, (11, pl. 2, fig. 8), *L. orbignyana* (?) var., *falcata* **var. n.**, (13, pl. 2, fig. 12), Grecian Archipelago, SIDEBOTTOM, Manchester, Mem. Lit. Phil. Soc. **50**, No. V.

†*Lepidocyclina eiofaloï* (A) **sp. n.** (89, pl. 3, figs. 4, 5), *L. himerensis* (B), **sp. n.** (91, pl. 3, figs. 1-3), *L. planulata* (A), **sp. n.** (90, pl. 3, figs. 6-8), Eocene, Sicily, CHECCHIA-RISPOLI, Riv. Ital. Paleont., **12**. — *L. marginata* (Michelotti), distribution, geogr. and geol., and enumeration of forms included in this term ; SILVESTRI, Roma, Atti Acc. Pont. Lincei, **59**, (146-166, 1 fig.). — *L. spp. nn.*, Eocene, Peninsula Salentina, noted ; DI STEFANO, Roma, Rend. Acc. Lincei, **15**, (1), (425). — *L.*, observations sur quelques travaux relatifs au genre ; DOUVILLÉ, H. Feuille jeunes naturalistes, Paris, **36**, 1906, (169-174).

†*Lingulina costata*, Miocene and Pliocene ("trubi"), Bonfornello ; SILVESTRI, Roma, Mem. Acc. Nuovi Lincei, **22**, (263, fig. 11).

†*Loftusia morgani* **sp. n.**, (376), *L. persica* (251), Cretaceous, Persia ; DOUVILLÉ, H. Mission de Morgan en Perse. Partie IV. Paléontologie. Mollusques fossiles, Paris, 1904, (380, av. pl.).

Miliolidae : illustrazione di specie orbignyane istituite nel 1826 ; FORNASINI, Bologna, Mem. Acc. sc., (Ser. 6), **2**, (59-70, 4 tav.).

Miliolina schauinslandi (41, figs. 20, 21), *M. deplanata* (42, fig. 23), *M. arenacea* (43, figs. 24, 25), *M. eribrostoma* (47, fig. 32), *M. ferox* (47, figs. 29-31), Laysan, **spp. n.** ; RHUMBLER, Zool. Jahrb., Syst., **24**.

†*Neoschwagerina* **subgen. n.** (of *Fusulina*) for *N. craticulifera* ; YABE, Tokyo, J. Coll. Science, **21**, Art. 5, (3, pl. 1).

Nodobaculularia irregularis **sp. n.**, Laysan; RHUMBLER, Zool. Jahrb., Syst., **24**, (38, fig. 15).

Nodosaria cylindracea **sp. n.**, Ceylon; DAKIN, Roy. Soc. Rep. Ceylon Pearl Fish., **5**, (235, fig. 8).—*N. scalaris*, Batsch. var., Wollongong; JENSEN, Sydney, N.S.W., Proc. Linn. Soc., **29**, (816, pl. xxiii, fig. 1).

†*Nummulites biarritzensis*, (65, figs. 1, 2, 6-8, 13-15), *N. carteri*, (66, figs. 9-12, 17, 19-20), Eocene, Madagascar; DOUVILLÉ, R., Paris, Ann. Paléont., **1**.—*N.*, 2 distinct types, *N. laevigatus* Lmck. + *N. brongiarti* and *N. fabianii* + *N. laevigatus* d'Arch.; BOUSSAC, Paris, C.-R. Acad. Sci., **142**, (243-244), and Bull. Soc. géol., (Ser. 4), **6**, (98-100, pl. 3).—*N. fabianii*, Prever, morphology and development; BOUSSAC, Paris, Bull. Soc. géol., (1), **6**, (88, pl. 1, pl. 3, fig. 6).—*N.* spp., characteristic of different geological basins and horizons; DOUVILLÉ, H., Paris, Bul. Soc. géol. (Ser. 4), **6**, (13-42, with tables).

†*Nummulitidae* "Priabona Schichten" and parallel zones, systematic comparison of, in regard to accurate determination of the horizon of these strata; OPPENHEIM, Berlin, Zs. d. geol. Ges., **58**, (156-180).

†*Omphalocyclus macropora*, Cretaceous, Tripoli; KROMBECK, Palaeontographica, **53**, (82-84, pl. 7, fig. 1).

†"*Orbitoides gumbelii*" Seg., Oligocene, Apennines, description and synonymy; SILVESTRI, Roma, Atti Acc. Pont. Lincei, **59**, (33-39, 2 figg.).—*O. richthofeni* **sp. n.**, Binangonan limestone, Manila; SMITH, Philippine Journ. Sci., **1**, (205, fig. 1, pl. 1).—*O. martini* **sp. n.**, Upper Miocene, Batangas Province, (Philippines); SMITH, T.c., (628, pl. 4, figs. 6, 7, 9.)

†*Orbitolina paronai*, *O. bochini*, and *O. kiliani* **spp. nn.** (Prever?), Cretaceous, Tarahuna (Tripoli), noted; PARONA, Roma, Rend. Acc. Lincei, **15** (i), (163-164).—*O.* spp., structure of shell; DOUVILLÉ, H., Paris, Bul. soc. géol., (sér. 4), **4**, (653-661, av. pl.).

†*Orthophragmina umbilicata* **sp. n.** (497, pl. 16, figg. 2-11), var. *fournieri* **var. n.** (501, pl. 17, fig. 12), *O. javana* **var. minor**, (502, pl. 17, figg. 13, 14), *O. sella*, (504, pl. 17, figg. 15-18), *O. dispansa*, (505, pl. 17, fig. 19), *O. varians*,

(505, pl. 18, figg. 20-22), *O. pentagonalis* **sp. n.** (507, pl. 18, figs. 24, 25, pl. 19, fig. 27). *O. stella* (508, pl. 19, fig. 28), *O. lanceolata* (509, pl. 19, figg. 29, 30), Eocene, New Caledonia; DEPRAT, Paris, Bull. Soc. géol., (ser. 4), **5**.—*O. coleanapi* **sp. n.**, Eocene, Madagascar; DOUVILLÉ, R. Paris, Ann. Paléont., **1**, (67, figs. 4-5).

†*Pellatospira* **gen. n.** (Nummulitidae), for *P. douvillei* **sp. n.**, (91, pl. 2, figg. 10-13), and *P. (N.) madaraszi*, (92, pl. 2, fig. 14); described, BOUSSAC, Paris, Bull. Soc. géol. (4) **6**.

†*Pleurostomella alternans*, Miocene and Pliocene ("trubi"), Bonfornello; SILVESTRI, Roma, Mem. Acc. Nuovi Lincei, **22**, (253, fig. 6).

(*Polymorphina alveoliniformis* **sp. n.**, Byron Bay, N.S.W.; JENSEN, Sydney, N.S.W., Proc. Linn. Soc., **29**, (821, pl. xxiii, figs. 8-12).—*P. sororia*, Reuss var., *id.*, t.c. (817, pl. xxiii, fig. 3).)

(*Polystomella hedleyi* **sp. n.** Palm Island, Queensland; JENSEN, Sydney, N.S.W., Proc. Linn. Soc., **29**, (828, pl. xxiii, fig. 14).—*P. macella* var., Wollongong, *id.*, t.c. (317, pl. xxxiii, fig. 4).)—*P. striatopunctata*, Alai-see, KIAER, Tashkent, Izv. Turk. Otd. Russ. Geogr. Obsč., **4**, (27-29).

(†*Porocystis*, regarded as a monothalamous Foraminiferan, rather than a Polyzoan; JARVIS, Biol. Bull., **9**, (388-390).)

Ramulina herdmanni **sp. n.**, Ceylon; DAKIN, Roy. Soc. Rep. Ceylon Pearl Fish., **5**, (226-228, 236, figs. i-vi).

(*Rheophax cuncta* **sp. n.** Byron Bay, N.S.W.; JENSEN, Sydney, N.S.W., Proc. Linn. Soc., **29**, (821, pl. xxiii, figs. 5-7).)

Rotalidae; Illustrazione di specie orbignyane istituite nel 1826, FORNASINI, Bologna, Mem. Acc. sc., (Ser. 6), **3**, (61-70, 4 tav.).

†*Sigmoilina schlumbergeri* **nom. nov.**, (267), *S. celata* (Costa) **sens. str.**, (268, figs. 12-14), Miocene and Pliocene ("trubi"), Bonfornello; SILVESTRI, Roma, Mem. Acc. Nuovi Lincei, **22**.

Spirillina vivipara var. *revertens* var. **n.**, Laysan and Chatham Isles; RHUMBLER, Zool. Jahrb. Syst., **24**, (32, figs. 8-10).

†*Spiroclypeus granulatus* **sp. n.**, Priabona; BOUSSAC, Paris, Bull. Soc. géol. (4) **6**, (96, pl. 2, figg. 15-18, pl. 3, fig. 19).

†*Spiroplecta corrugata*, Miocene and Pliocene ("trubi"), Bonfornello; SILVESTRI, Roma, Mem. Acc. Nuovi Lincei, **22**, (242, fig. 2).

†*Textularia folium*, Tertiaries, Biarritz; LIEBUS, Wien, Jahrb. geol. Rehs. Aust., **56**, (356, fig. 2).—*T. gibbosa* d'Orb., on the dimorphism of; also distribution, geogr. and geol.; SILVESTRI, Roma, Mem. Acc. Nuovi Lincei, **24**, (225–242, 9 figs.).

†*Tritaxia lepida*, Tertiaries, Biarritz; LIEBUS, Wien, Jahrb. Geol. Rehs. Anst., **56**, (359, fig. 7).

Tubinella **gen. n.** (fam. *Rhabdamminidae*), for *T. perforata* **sp. n.**, Laysan; RHUMBLER, Zool. Jahrb., Syst., **24**, (25–27, fig. 5).

Tubinellinae **subfam. n.**, RHUMBLER, Zool. Jahrb. Syst., **24**, (25).

†*Vagulinopsis inversa* (Costa), var. *Carinata* Silv., "trubi," Bonfornello; SILVESTRI, Roma, Mem. Acc. Nuovi Lincei, **22**, (251, fig. 5).

†*Vulvulina pennatula*, "trubi," Bonfornello; SILVESTRI, Roma, Mem. Acc. Nuovi Lincei, **22**, (214, fig. 1).

Incertae sedis.

(Probably allied to Foraminifera.)

†*Spongiostromaccae* **ord. n.**

†*Spongiostromidae* **fam. n.** (35).

†*Aphrostroma* **gen. n.**, (36); *A. tenebrum* **sp. n.**, (36, pls. 1, 2, 3).

†*Chondrostoma* **gen. n.**, 45; *C. problematicum* **sp. n.**, (45, pl. 12, fig. 3); *C. globuliferum* **sp. n.**, 46, pl. 12, figs. 1, 2); *C. intermixtum* **sp. n.**, (47, pl. 13); *C. vermiculiferum* **sp. n.**, 48, pl. 14, fig. 1, 2, 3).

†*Malacostroma* **gen. n.**, 48); *M. concentricum* **sp. n.**, (49, pls. 15–17, 20, 23, fig. 7); *M. plumosum* **sp. n.**, (50, pl. 18, fig. 1); *M. undulosum* **sp. n.**, (51, pls. 18, fig. 2, 19).

†*Pycnostroma* **gen. n.** (38); *P. densius* (39, pls. 4, 5); *P. spongilliferum* **sp. n.**, (40, pl. 6, fig. 2).

†*Spongiostroma* **gen. n.** (40); *S. macandrinum* **sp. n.**, (41, pl. 6); *S. bacilliferum* **sp. n.**, (42, pl. 7, pl. 10, fig. 1); *S. ovuliferum* **sp. n.**, (43, pls. 8, 9, 10, fig. 2); *S. granulosum* **sp. n.**, (44, pl. 11); all from limestones ("Viséen"), Namur, GÜRICH, Bruxelles, Mém. Musée Belge., **3**, IV. (55, 23 pls.).

Xenophyophora.

Die Xenophyophoren der Siboga-Expedition; SCHULZE, Resultats des explorations zool., Botan., océan. géol. entreprises aux Indes Néerl. Or. 1899–1900, à bord du Siboga, publiés par Max Weber. Leiden, Livr., **31**, Monogr. 4 bis, 1906, (18, avec 3 pl.).

Xenophyophora der amerikanischen Albatros-Expedition 1904–05; SCHULZE, Berlin, SitzBer. Ges. natf. Freunde, **1906**, (205–229, mit 1 Karte).

Psammetta globosa **sp. n.**; SCHULZE, Rés. exp. Siboga, Livr. **31**, Monogr. 4 bis, (1–11, pl. 1 and pl. 2, figg. 1–10).

(c) *Heliozoa.*

Acanthocystis klepica **sp. n.**; HUITFELDT-KAAS, Plankton-Untersuchungen in norwegischen Seen. (Norw.), (IV + 199, mit 3 Taf. u. 9 Tab.), deutsches Rés. (147–197).—*A. pertyana*, test ('skeleton') and spines in, described; LORD, Manchester, Trans. Microsc. Soc., **1905**, (41–44, 1 pl.).

Lithocolla apsteinii **sp. n.**; HUITFELDT-KAAS, Plankton-Untersuchungen in norwegischen Seen, (Norw.), (iv + 199, 3 Taf. u. 9 Tab.), deutsches Rés. (147–197).

(d) *Radiolaria.*

Ueber die Mittel der Formbildung im Radiolarienkörper. (6. Mitt. über die Tripyleen der „Valdivia“-Ausbeute.). HÄCKER, Verh. D. zool. Ges., Leipzig, **16**, (31–51).

Acantharia, various, chemical nature of skeletal substance; BÜTSCHLI, Zool. Anz., **30**, (781–789).

Acanthochiasma bruhni **sp. n.**, Indian Ocean; POROFSKY, Arch. Protistenkunde, **7**, (352).—*A. plana* **var. n. schotti**, Indian Ocean; POROFSKY, Arch. Protistenkunde, **7**, (351, fig. 8).

Acanthometulac, Pacific Ocean, skeletal structure; MIELCK, Zool. Anz., **30**, (754–762, 3 fig.).—*A.*, systematic account; POROFSKY, Arch. Protistenkunde, **7**, (345–391, 4 pls.).

Acanthometron crinaceum **sp. n.**, Atlantic; POROFSKY, Arch. Protistenkunde, **7**, (354, fig. 12).

Acanthophracta, from the Plankton-Expedition of the Humboldt-Stiftung, classification and systematic account;

POPOFSKY, *Ergebn.*, **3**, L. f. β , (160, 16 pls.).

Arachnothauma **gen. n.**, (Monopylaria, near *Arachnocorys*) *A. mirabile* **sp. n.**; ZACHARIAS, *Arch. Hydrobiol.*, **1**, (566).

Astracantha **gen. n.** (Tripylaria), (888); *A. paradoxa* (890, fig. 12); *A. heteracantha* (891, fig. 13); *A. umbellifera* (891, fig. 14), **spp. n.**, "Valdivia"-expedition; HÄCKER, *Zool. Anz.*, **30**.

Astracanthidae **fam. n.**, "Valdivia"-material, diagnosed; HÄCKER, *Zool. Anz.* **30**, (888).

Atlanticella **gen. n.** (Tripylaria), (125); *A. anacantha* (125, pl. 10 figs. 1-3); *A. craspedota* (126, pl. 10, figs. 4 and 5); *A. planktonica* (126, pl. 10, figs. 6-8), **spp. n.**, Atlantic Ocean; BORBERT, *Ergebn. Plankton-Exped. Humboldt Stiftung*, **3**, L. h. 3.—*A. bicornis* **sp. n.**; HÄCKER, *Zool. Anz.*, **30**, (894, fig. 16).

Atlanticellidae, **fam. n.**, diagnosed; BORBERT, *Ergebn. Plankton-Exped. Humboldt-Stiftung*, **3**, L. h. 3, (117).

Aluoceros patescens **sp. n.**; ZACHARIAS, *Arch. Hydrobiol.*, **1**, (572).

Aulospathis monodon **sp. n.**; ZACHARIAS, *Arch. Hydrobiol.*, **1**, (550).

Castanea amphora **sp. n.**, Atlantic; HÄCKER, *Arch. Protistenkunde*, **8**, (65).

Castanidium sol **sp. n.** Atlantic; *C. mosleyi* **subsp. n.** *circoporoides*; HÄCKER, *Arch. Protistenkunde*, **8**, (64).

Castanissa valdiviae **sp. n.** Atlantic; HÄCKER, *Arch. Protistenkunde*, **8**, (64).

Castanura echinus **sp. n.** Atlantic; HÄCKER, *Arch. Protistenkunde*, **8**, (64).

Challengeridae; vierte Mitteilung über die Tripyleen-Ausbeute der deutschen Tiefsee-Expedition. HÄCKER, *Arch. Protistenkunde*, Jena, **7**, 1906, (259-306, 1 Taf.).

Challengeron häckeri **sp. n.**; ZACHARIAS, *Arch. Hydrobiol.*, **1**, (572).—*C. sacculus* **sp. n.** "Valdivia" deep-sea expedition; HÄCKER, *Arch. Protistenkunde*, **7**, (302, pl. xi, fig. 10).

Challengerosium aricularia **sp. n.**, "Valdivia" deep-sea expedition; HÄCKER, *Arch. Protistenkunde*, **7**, (300, pl. xi, fig. 8).

Circocastanea **gen. n.**, (Tripylaria), *margarita* **sp. n.**, HÄCKER, *Arch. Protistenk.*, **8**, (59, fig. 8).

Circoporetta **gen. n.**, (Tripylaria), HÄCKER, *Verh. D. zool. Ges.*, **16**, (36).

Circostephanus valdiviae **sp. n.**, HÄCKER, *Verh. D. zool. Ges.*, **16**, (36).

Coleaspis tridentifera **sp. n.**, Atlantic, POPOFSKY, *Ergebn. Plankton-Exp.*, **3**, L. f. β , (75, pl. 5, fig. 4).

Cribrosphaera **gen. n.**, (Acantharia), for *C. polypora*, POPOFSKY, *Ergebn. Plankton-Exp.*, **3**, L. f. β , (63).

Cruciforma **gen. n.** for part of *Amphiloneche*, (Acantharia), POPOFSKY, *Arch. Protistenkunde*, **7**, (376).

Cytocladus **gen. n.**, (Peripyalaria), for *C. gracilis*, *C. major* **spp. nn.**, German South Polar Expedition; SCHRÖDER, *Zool. Anz.*, **30**, (448-451, 9 figg.).—*C. gracillimus* **sp. n.**, "Valdivia" material; HÄCKER, *Zool. Anz.*, **30**, (879, fig. 1).—*C. spinosus* **sp. n.**, Japan; SCHRÖDER, *Zool. Anz.*, **30**, (587-590, 1 fig.).

Diploeonius nitidus with var. *indicus*, Indian and Pacific Oceans, (123, pl. 15, figs. 1-3), *D. tridentatus*, Atl., Ind., Pac., (123, pl. 15, figs. 4, 5), **spp. n.**, POPOFSKY, *Ergebn. Plankton-Exp.*, **3**, L. f. β .

Diporaspis planetonica **sp. n.**, Atl., POPOFSKY, *Ergebn. t.c.* (50, pl. 2, fig. 7, pl. 3, fig. 1).

Dorataspis loricata **varr. nn.** *disparopora*, *delibitata*, POPOFSKY, *t.c.* (42, pl. 1, figs. 10-12).

Globispinum **gen. n.**, (Acantharia), for *G. laucolatum*, POPOFSKY, *t.c.* (56).

Heliochallengeron **gen. n.**, (Tripylaria), for *H. (Challengeron) channeri*, HÄCKER, *Arch. Protistenkunde*, **7**, (300, pl. xi, fig. 9).

Hystrihaspis arbusta **sp. n.**, Atlantic, POPOFSKY, *Ergebn. Plankton-Exp.*, **3**, L. f. β , (68, pl. 6, fig. 5).

Lepidella **gen. n.**, (*inc. sedis*), for *L. chumiana* **sp. n.**, ZACHARIAS, *Arch. Hydrobiol.*, **1**.

Medusettidae from plankton, Atlantic and elsewhere, BORBERT, *Ergebn. Plankton-Exped. Humboldt-Stiftung*, Bd. **3**, L. h. 4, (133-192, 4 pls.).

Nationalletta valdiviae **sp. n.**, HÄCKER, *Zool. Anz.*, **30**, (892, fig. 15).

Phyllostaurus quadrifolius var. n. *phyllacantha*, ZACHARIAS, Arch. Hydrobiol., **1**, (512).

Planktonetta decapus sp. n., Atlantic Ocean; BORGERT, Ergebn. Plankton-Exped. Humboldt-Stiftung, **3**, I, h. 4, (162, pl. 13, figs. 10-14).

Porodiscus armatus sp. n., ZACHARIAS, Arch. Hydrobiol., **1**, (548).

Protocystis acornis (292, pl. xi, fig. 3); *P. bicornis* (293, pl. xi, fig. 4); *P. micropoleucus* (298, pl. xi, fig. 5); *P. thyroma* (299, pl. xi, fig. 6); *P. tuba* (299, pl. xi, fig. 7), spp. n., "Valdivia" deep-sea expedition; HÄCKER, Arch. Protistenkunde, **7**.

Sagenoarium anthophorum sp. n., Antarctic, HÄCKER, Verh. D. zool. Ges., **16**, (40).—*S. (?) norregicum* sp. n. Nordatlantic; BROCK, Zool. Anz., **29**, (657-659).

Staurodictya leptacantha sp. n. ZACHARIAS, Arch. Hydrobiol., **1**, (566).

Tesseraspis cribriforma with var. *ambigua*, Atl., Pacif., (83, pl. 8, figs. 1, 2, pl. 9, fig. 2); *T. planctonica*, Atl., Ind., Pacif., (83, pl. 8, figs. 3, 4); *T. incognita*, Ind., (84, pl. 8, figs. 5, 6), spp. n.; POPOFSKY, Ergebn. Plankton-Exp., **3**, I, f. β.—*T. micropora* var. n. *sargassiana*, id., t.c. (83, pl. 7, fig. 9).

Thalassothamnidae fam. n., characterized, HÄCKER, Zool. Anz., **30**, (885).

Thalassothamnus gen. n., (Periphyllaria), (886); *T. tenerimus* (879, fig. 2); *T. ramosus* (880, fig. 3); *T. genista* (881, figs. 4 and 9); *T. spermatophorus* (881, fig. 5), spp. n., "Valdivia"-Material, HÄCKER, Zool. Anz., **30**.

Tignisphaera gen. n., (Acantharia), for *T. tubulata* and *T. tetragonopa*, POPOFSKY, Ergebn. Plankton-Exp., **3**, I, f. β., (104, pl. 16, fig. 1).

Thoracaspis elegans varr. nn.; *T. callosa*, (57, pl. 4, figs. 2-5); *T. imperfecta*, (57, pl. 4, figs. 7, 8); *T. perforata*, (58, pl. 4, fig. 6); *T. salebrosa* sp. n., (59, pl. 4, fig. 11); *T. latispicala* sp. n., (60, pl. 5, fig. 2), POPOFSKY, Ergebn. Plankton-Exp., **3**, I, f. β.

Tuscaroridae, in "Plankton-Expedition der Humboldt-Stiftung"; BORGERT, **3**, I, h. 2, (95-112, 1 pl.).

Zygacantha annulata sp. n., Atlantic, POPOFSKY, Arch. Protistenkunde, **7**, 358, fig. 13).

3. SPOROZOA.

(a) Gregarinidea.

Aggregata [vide under Coccidia].

Cystobia chviridotae sp. n.; DOGIEL, Arch. Protistenkunde, Jena, **7**, 1906, (106-130, 1 Taf.).

Diplodina, gen. n. (for *Cystobia*)—*irregularis*, life-cycle, *D. minchinii*, notes on, WOODCOCK, Q. J. Microsc. Sci., **50**, (1-100, 6 pls.).

Eleutheroschizon gen. n., for *E. duboseqi* sp. n., BRASIL, Arch. zool., **4**, Notes et Rev., (xvii-xxii, with fig.).

(Gregarina cavalierina sp. n. BLANCHARD, Paris, C.-R. ass. franç. avanc. sci., **33**, (926-928), Bull., **1904**, (269).)—*G. socialis* sp. n., LÉGER, Arch. Protistenkunde, **7**, (327, text-fig.).

Monocystis coronatus sp. n., from *Pheretima*, HESSE, Paris, Bull. ass. franç. avanc. sci., **1904**, (268).—*Monocystis* spp., conjugation and reproduction; BRASIL, Arch. Zool., Paris, **4**, 1905, (69-99, 2 pls.).

(Stylorhynchus gladiator sp. n. BLANCHARD, Paris, Bull. ass. franç. avanc. sci., **1904**, (269), C.-R., **33**, (924-925).)

Taenocystis mira, structure and development, LÉGER, Arch. Protistenkunde, **7**, (307-329, 2 Taf.).

(b) Coccidiidea.

Adelea zonula sp. n., from *Blaps*; MOROFF, Arch. Protistenkunde, **8**, (17-51, 1 Taf.).

Aggregata (= *Eucoccidium*) *eberthi*, development in a crab (*Portunus*); LÉGER et DUBOSCQ, Paris, C.-R. Soc. Biol., **60**, (1001-1003).—*A. spinosa* sp. n., diagnosed, (74); *A. spp.*, varieties of nuclear division; MOROFF, Zool. Anz., **31**, (72-78).

Diplospora fragilis sp. n., from *Vipera aspis*, LÉGER, Paris, Bull. Ass. franç. avanc. sci., **1904**, (268).

Eucoccidium (syn. "*Benedenia*," *Klossia*), genetically connected with *Aggregata*; *E. jacquemeti* sp. n., MOROFF, Paris, C.-R. Acad. Sci., **142**, (652-654).—*E. eberthi* and *E. jacquemeti* of Cephalopods, development in crabs (*Inachus*, *Portunus*, etc.) in an *Aggregata*-form; LÉGER et DUBOSCQ, Paris, C.-R. Acad. sci., **142**, (1225-1227).

Hyalosphaera gen. n., for *H. gregari-nicola* sp. n.; DOGIEL, Arch. Protistenkunde, **7**, (123-128, pl. iii, figs. 20-29).

Karyospora gen. n. for *K. simplex* sp. n., from *Vipera aspis*, noted only, LÉGER, Paris, Bull. Ass. franç. avanc. sci., **1904**, (268).

Nematopsis schneideri sp. n., from *Mytilus*, LÉGER, Paris, Bull. ass. franç. sci., **1905**, (331).

Orcheobius gen. n. for *O. herpobdellae* sp. n. from *Nepheleis (Herpobdella)*; SCHUBERG und KUNZE, Verh. D. zool. Ges., **16**, (233-250).

(c) Haemosporidia.

On Haematozoa [spec. indet.] in a bat; BOWHILL, J. Hygiene, **6**, (246-247, pl. iii).

On Haematozoa of bats; SCHINGAREFF, St. Peterb., Arch. Sci. biol., **12**, (181-189, 1 pl.).

On the Haematozoan of *Testudo ibera*; POPOVICI-BAZNOSANU, Paris, C.-R. soc. biol., **60**, (173-174).

Blood parasites of the mole; THOMSON, J. Hygiene, **6**, (574-579, pl. 10).

"*Achromatium*" *vesperuginis* (Dionisi), GONDER, Berlin, Arb. Gesundheitsamt, **24**, (220-226, 1 Taf.).

Halteridium crumenium sp. n., from an African stork; HIRST, London, Proc. Zool. Soc., **1905**, ii, (297).

"*Haemamoeba*" *nearei* [sic!] sp. n., recalling "*H.*" (*Leucocytozoon*) *ziemannii*; NEAVE, Khartoum, Rep., Wellcome Research Lab., **2**, (200, pl. 20).

Haemogregarina balfouri (Laveran), BALFOUR, Khartoum, Rep. Wellcome Res. Lab., **2**, (97-110, figs. 57-60, pl. xi-xiii). and J. Trop. Medicine, **9**, (81-92, 2 pls.).—*H. borreli* sp. n., from *Varanus*, NICOLLE et COMTE, Paris, C.-R. soc. biol., **61**, (310-312, with fig.).—*H. callionymi* (380, text-fig. 3); *H. quadrigemina* (381, text-fig. 3, A-II); LEBAILLY, Arch. Parasit., **10**.—*H. (Ilesi + platessae)*, notes on structure; ROBERTSON, M., Edinburgh, Proc. R. Physic. Soc., **16**, (242, pl. 9).—*H. lignièresi* sp. n., from *Anguilla*; LAVERAN, Paris, C.-R. Soc. biol., **60**, (457-458).—*H. mabuiae* sp. n., from a lizard (*Mabuia*), NICOLLE et COMTE, Paris, C.-R. soc. biol., **61**, (291-295, with fig.).

Haemoproteus (Halteridium) columbae, Kruse; a Hippoboscoid (*Lynechia*) as alternate host; SERGENT et SERGENT, Paris, C.-R. soc. biol., **61**, (494-496).—*H. maceallumi*, *H. rouxii*, *H. sacharovi* spp. nn.; NOVY and MACNEAL, New York, Proc. Soc. Exp. Biol. Med., **2**, 1905, (23-28).

Leishmania ("Piroplasma") donovani, the "*Hepatomonas*" of Kala-Azar, development of Flagellate phases; ROGERS, London, Proc. R. Soc., **77**, B. (284-293, pl. vii).

On a Protozoan parasite from a dog (= *Leucocytozoon canis*); WENYON, J. Hygiene, **6**, (231-236, pl. 2).

Leucocytozoon funambuli sp. n., from palm-squirrels; PATTON, Sci. Mem. India, **24**, (13, 1 pl.).—*L. muris* sp. n., from the rat; BALFOUR, Khartoum, Rep. Wellcome Res. Lab., **2**, (110-111, pl. xi).—*L. rattus* sp. n. (prov.), from *M. rattus*; ADIE, Journ. trop. Medicine, **9**, (325-329, text-figs.).—*L.* sp. (perhaps *rattus*) from *Mus decumanus*; CLELAND, Journ. Trop. Medicine, **9**, (296-297).

Malarial parasites; differentiation of the various ring-forms; BILLET, Paris, C.-R. Soc. biol., **61**, (754-756).—Malarial parasites, specific unity of; THROUX, Paris, C.-R. Acad. sci., **143**, (615-617), also Ann. Inst. Pasteur, **20**, (766-773, 869-873).

Piroplasma bigeminum, also *P.* of East African Coast fever, developmental phases in ticks; KOCH, Zs. Hyg., Leipzig, **54**, (1-9, 3 Taf.).—*P. canis*, observations on morphology and life-history; NUTTALL and GRAHAM-SMITH, J. Hygiene, **6**, (586-651, pl. 11-13, 23 text-figs.).—*P. c.* attempts at cultivation; KLEINE, Zs. Hyg., Leipzig, **54**, (10-16, 2 Taf.).—*P. muris* sp. n.; FANTHAM, Q. J. Microsc. Sci., **50**, (493-516, 1 pl.).—*P. (Babesia)*, spp., minute structure and relation to blood-corpuscles; LÜHE, Zool. Anz., **30**, (45-52).—*P.* (sp. incert.) in cattle in Japan; MIYAJIMA und SHIBAYAMA, Zs. Hyg., **54**, (189-200, 1 Taf.).

Protozoa in "bouton du Nil," probably the same as *Piroplasma [Leishmania] tropica*, of Delhi boil; BILLET, Paris, C.-R. Soc. Biol., **60**, (1149-1151).

Plasmodium malariae, parasite of quartan fever, haemogregariniform phase; BILLET, Paris, C.-R. Soc. Biol., **60**, (1146-1148, text-figs.).—*P. m.* technique;

RUGE, Jena, 1906, (ix + 420, 5 Taf.).—*P. praecox*, *P. vivax* u. *P. malariae*; PEZOPOULOU und CARDAMATI, Centralbl. Bakt., Abt. 1, **40**, Originale, (341-350, 2 Taf., 480-495, 2 Taf.).—*P. quartanae*, studio morfologico e biologico; LEVI DELLA VIDA, Roma, Atti Soc. studi malaria, **7**, (137-148, 1 tav.).—*P. raughani* sp. n.; NOVY and MACNEAL, New York, N.Y., Proc. Soc. Exp. Biol. Med., **2**, (23-28).

(d) Myxosporidia.

Sur la structure de la paroi sporale des Myxosporidies; LÉGER et HESSE, Paris, C.-R. Acad. sci., **142**, (720-722, figg.).

Microsporidies parasites des crabes d'Arcachon; PÉREZ, Arcachon, Trav. Soc. sci. station zool., **8**, (15-36, figg.).

Sur quelques Microsporidies parasites des Crustacés; PÉREZ, Paris, Bull. ass. franç. avanc. sci., **1905**, (329-330).

Branchiophaga alosicida, Mazzar. Rapporti col *Blastulidium*; MAZZARELLI, Rivista mensile di Pesca, **8**, (209-214, 7 fig.).

Chloromyxum cristatum sp. n., from *Tinea*; LÉGER, Paris, C.-R. Acad. sci., **142**, (1097-1098).—*C. truttiae* sp. n.; LÉGER, Paris, C.-R. Acad. sci., **142**, (655-656).

Henneguya acerinae sp. n., aus den Kiemen von *Acerina cermua*; SCHRÖDER, Arch. Protistenkunde, **7**, (186-196, 1 Taf.).—(*H. legeri* sp. n., from *Cobitis*; CÉPÈDE, Paris, C.-R. Ass. franç. avanc. sci., **33**, (911).)

(*Myxidium barbatulae* sp. n., from *Cobitis*, kidney and bladder; CÉPÈDE, Paris, C.-R. Ass. franç. avanc. sci., **33**, (912).)—*M. giardi* sp. n., from *Anguilla vulgaris*; CÉPÈDE, Paris, C.-R. Soc. Biol., **60**, (15-16 and 170-173, 4 figg.).—*M. rhodei* sp. n.; LÉGER, Paris, Bull. Ass. franç. avanc. sci., **1905**, (330).

Myxobolus aeglefini sp. n., from *Gadus aeglefinus*, spores described; AUERBACH, Zool. Anz., **30**, (568-570).—*M. pfeifferi*, producente la psorospermiosi o mixoboliasi tuberosa dei barbi; STAZZI, Rivista mensile di Pesca, **8**, (14-19, 3 fig.).—*M. pfeifferi*, sexual phenomena and development of spores; MERCIER, Paris, C.-R. Soc. Biol., **60**, (427-428 and 763-764).

(*Myxocystis mrazeki* sp. n.; HESSE, Paris, C.-R. ass. franç. avanc. sci., **33**, (914-916), Bull., **1904**, (268).)

(*Noszma longifilum* sp. n.; HESSE, Paris, C.-R. ass. franç. avanc. sci., **33**, (917-919), Bull., **1904**, (268).)—N., liability of mistaking yeast-bodies and other cell-parasites in *Blatta* for spores of; MERCIER, Paris, C.-R. Soc. Biol., **60**, (1081-1083).

Pleistophora macrospora sp. n., from body-wall of *Cobitis*, sporoblasts and spores; CÉPÈDE, Paris, C.-R. Acad. sci., **142**, (56-58), and C.-R. Soc. Biol., **60**, (13-15).—*P. periplanetae*, structure and life-history; PERRIN, Q. J. Microsc. Sci., London, **49**, 1906, (615-633, 2 pls.).—*P. vermiformis*, sp. n.; LÉGER, Paris, Bull. ass. franç. avanc. sci., **1905**, (330).

(*Thelohania cepedei* sp. n.; HESSE, Paris, C.-R. ass. franç. avanc. sci., **33**, (919), Bull., **1904**, (268).)—*T.* sp., from *Talitrus* (Amphipod); MERCIER, Paris, C.-R. soc. biol., **61**, (90-91).

(e) Haplosporidia.

(Recherches sur les Haplosporidies; CAULLERY et MESNIL, Arch. zool., sér. 4, **4**, (101-180, pl. 1).)

Anurosporidium gen. n., *A. pelsenceri* sp. n., from sporocysts of a Trematode; CAULLERY and CHAPPELLIER, Paris, C.-R. Soc. Biol., **60**, (325-328, 4 figg.).

Bertramia kirkmani sp. n., from a S. African Rotifer; WARREN, Ann. Nat. Govt. Mus., **1**, pt. 1, (7, pl. vi).

(*Scheriakorella* gen. n., type: "*Glugea schmeili* L. Pfeiffer 1895; CAULLERY et MESNIL, Arch. zool., **4**, (156))

Incertae sedis.

Amacbidium, morphology, biology and development, "a Thallophyte rather than a Sporozoon"; CHATTON, Arch. zool., sér. 4, **5**, Notes et revue (xvii-xxx, fig.).—*A. reticulata* sp. n., commensal with *Daphnia*; CHATTON, Arch. zool., N. et R., **5**, (xxxiii-xxxviii, with figg.).

Cytoryetes [= *Cytorrhycles*, *Cytorrhycles*], critical remarks on connection with syphilitic lesions, relation to Protozoa; SIEGEL, Centralbl. Bakter., Abth., **1**, **42**, Orig., (128-132, 225-230, 321-325).—

Plasmodium [sic] *luis kytlophthoron*, *P. luis kytloplastikon*, **spp. n.** (cancer parasites, etc.), SCHÜLLER, Centralbl. Bakt., Jena, Abt. 1, **40**, Originale, (163-174).

4. MASTIGOPHORA.

(a) Flagellata.

(Hémoflagellés des poissons d'eau douce. Leur forme dans les sangsues, LÉGER, Paris, Bull. ass. franç. avanc. sci., **1904**, (268-269).)

Trypanosomen als Krankheitserreger; NOCHT und MAYER. [In: Handbuch der pathogenen Mikroorganismen. Ergbd. H. I.] Jena, 1906, (1-75, 3 Taf.).

Identification des Trypanosomes pathogènes. Essais de sérodiagnostic; LAVERAN et MESNIL. Paris, C.-R. Acad. sci., **142**, (1482-1487).

(Ueber trypanosomenähnliche Flagellaten im Darin von *Melophagus orinus*, PREIFFER, Zs. Hyg., **50**, (324-330, 1 pl.).

Note on a Flagellate parasite (probably *Crithidia*), in *Culex fatigans*, ROSS, J. Hygiene, **6**, (96 and 97).

Haemoflagellates of an African fish (*Clarias angolensis*); DUTTON, TODD and TOBEY, J. med. Res., (N. Ser.), **10**, (491-495, pl.).

Spirilles, Spirochètes et autres micro-organismes à corps spiralé; BLANCHARD, Arch. Parasit. **10**, (129-149). [Includes diagnosis of genera *Trypanosoma* and *Trypanoplasma*.]

Euglena, structure of paramylum; BÜTSCHLI, Arch. Protistenkunde, **7**, (197-228, 1 Taf.).

Herpetomonas algeriense **sp. n.**, from *Culex*, and *Stegomyia*, also *H. sp.*, from *Anopheles*; SERGENT, E. and E., Paris, C.-R. soc. biol., **60**, (291-293, text-figs.).—*H. muscae-domesticae*, *H. sarcophagae*, *H.* (perhaps *n. sp.*), from the fly, described; LINGARD and JENNINGS, London, **1906**, (25, 5 pls.).—*H*-like parasites (probably *Crithidia*); BALFOUR, J. Hygiene, **6**, (652-655, pl. xiv).

Palatinella **gen. n.**, *P. cyrtophora* **sp. n.** Deutschland; LAUTERBORN, Zool. Anz., **30**, (423-128, 3 figs.).

Spirochaeta ("Trypanosoma") *balbianii*, researches on life-history, PERRIN, Arch. Protistenk., **7**, (131-156, 2 pls.).—

S. ("T."), structure and relationships; VLÈS, Paris, C.-R. soc. biol., **61**, (408-410, with fig.).

Trichomastix riperae **sp. n.**, LÉGER, Paris, Bull. ass. franç. avanc. sci., **1904**, (268).

Trypanomorpha **gen. n.** (for *Trypanosoma noctuae*, Schaudinn); WOODCOCK, Q. J. Microsc. Sci., **50**, (283). *Trypanomorphidae* **fam. n.**; WOODCOCK, *l.c.* (283).

Trypanoplasma barbi, *T. abramidis*, *T. truttae*, **spp. n.**, noted; BRUMPT, Paris, C.-R. soc. biol., **60**, (163-164).—*T. borreli*, Generations- und Wirtswechsel; KEYSSELITZ, Arch. Protistenkunde, **7** (1-74, 162 figg.).

Trypanosoma acerinae, *T. barbi*, *T. percae*, *T. phoxini*, *T. langeroni*, *T. leucisci*, *T. scardinii*, *T. elegans*, *T. squalii*, and *T. rabinowitschii* **spp. n.**; notes on development in leeches; BRUMPT, Paris, C.-R. soc. biol., **60**, (160-162).—*T. blanchardi* **sp. n.**, occurrence and note; BRUMPT, Rev. Sci., Paris, (ser. 5), **4**, 1905, (324, figg. 34 and 35).—*T. brucei*, curious morphological features; ROBERTSON, Edinburgh, Proc. R. Physic. Soc., **16**, (232, pl. 8).—*T. cazal-boui* **sp. n.**, causing "Souma" among *Equidae* and *Boridae* in the Upper Niger; LAVERAN, Paris, C.-R. Acad. sci., **143**, (94-97).—*T. duttoni* Thiroux, morphologie; THIROUX, Ann. Inst. Pasteur, **19**, (561-572, 1 pl.).—*T. d.*, le Trypanosome de la souris; cycle de développement chez le foetus; PRICOLO, Centralbl. Bakt., Abt. 1, **42**, Orig., (231-235, with fig.).—*T. elegans*, (153, pl. 3, fig. 7, pl. 4, fig. 10), *T. undulans*, (151, pl. 3, fig. 9, pl. 4, figs. 8, 9), **spp. n.**, *T. loricatum vel costatum* (Mayer), (144, pl. 3, figs. 8, 13, pl. 4, figs. 1, 2), *T. rotatorium* (Mayer), sens. str. (without striae), (147, pl. 3, fig. 6, pl. 4, figs. 3, 4), *T. inopinatum*, Sergent, (150, pl. 3, fig. 4, pl. 4, figs. 6, 7), all from *Rana esculenta*; FRANÇA and ATHIAS, Archives Inst. Roy. Bacter., **1**.—*T. gambiense*, expériences d'infection par des *Glossina palpalis* infectées naturellement; CAZALBOU, Paris, C.-R. Acad. sci., **143**, (435-437).—*T. g.*, "*T.*" *grayi*, and *T. tullochii* **sp. n.** (Minchin), comparative morphology in, and relation to, *Glossina palpalis*; MINCHIN, GRAY and TULLOCH. London, Proc. R. Soc., **78** (B), (242-258, pls. 12-14).—"*Trypanosoma*" *grayi* **sp. n.**, and other Tsetse-fly Trypanosomes; NOVY,

Chicago, J. inf. diseases, **3**, (394-411, 3 pls.).—*T. inopinatum*, mode of transmission and behaviour in *Helobdella*; BRUMPT, Paris, C.-R. soc. biol., **61**, (167-169).—*T. nanum*, notes on; BALFOUR, Khartoum, Rep. Wellcome Res. Lab., **2**, (113-173, pl.), and J. Trop. Medicine, **9**, (81-92, 2 pls.).—*T. pestanaei*, from *Meles taxus*, described; BETTENCOURT and FRANÇA, Archives Inst. Roy. Bacter., **1**, (73-75, pl. 3, figs. 1 and 2).—*T. platessae*, (354, pl. 7, fig. 10), *T. flesi*, (355, fig. 7), *T. limandae*, (356, fig. 11), *T. laternae*, (357, fig. 6), *T. bothi*, (358, fig. 8), *T. callionymi*, (358, fig. 5), *T. cotti*, (360, fig. 4), *T. gobii*, (361, fig. 9), *T. delagei*, (362, fig. 12), *T. granulatum* var. *magna* var. n., (364, fig. 1), var. *parva* var. n., (366, fig. 2), described; LEBAILLY, Arch. Parasit., **10**.—*T. pleuronectidum* sp. n. (but antedated by Lebaillly's names *T. flesi* and *T. platessae*, 1904), proposed; ROBERTSON, Glasgow, Proc. Phil. Soc., **37**, (77, pl. 1, figs. 4 and 5).—*T. pythonis* sp. n., [apparently really a Haemogregarine]; ROBERTSON, Glasgow, Proc. Phil. Soc., **37**, (74, pl. 1, figs. 1-3), also Edinburgh, Proc. R. Physic. Soc., **16**, (237, 3 figs.).—*T. rotatorium*, morphology and artificial cultivation; BOUET, Paris, Ann. Inst. Pasteur, **20**, (564-577, pl. 26).—*T. r.*, phenomena of division; FRANÇA and ATHIAS, Paris, C.-R. soc. biol., **60**, (1108-1109).—*T. somalense* sp. n., from *Bufo reticulatus*; BRUMPT, Paris, C.-R. soc. biol., **60**, (164).—*T. suis* sp. n., from swine; OCHSMANN, Berliner tierärztl. Wochenschr., **1905**, (337-338).—*T. theileri*, observed in oxen in Transcaucasia, morphology and developmental forms; LÜHS, Arch. Parasit., **10**, (171-186, 2 pls.).—*T. t.*, observed in an antelope. DUTTON, TODD, and TOBEY, Liverpool, Mem. Sch. Trop. Med., **20**, (95, pl. 9).—*T. vespertilionis*, BATTAGLIA, Roma, Ricerche Lab. anat. norm., **12**, 1906, (5-51, 2 tav.).—*T. r.*, Battaglia, description and synonymy; BETTENCOURT and FRANÇA, Archives Inst. Roy. Bacter., **1**, (187-194, pl. 3, fig. 3).

Trypanosomata and trypanosomoses; TOBEY, J. Med. Research, **10**, (117-145).

Trypanosomes of Gambiæ-fever and sleeping-sickness identical—i.e. *T. gambiense*; THOMAS, London, Proc. R. Soc., **78 B**, (316-317).—Trypanosome of bats

(*Vespertilio kühli*), different forms; NICOLLE and COMTE, Paris, C.-R. soc. biol., **60**, (736-738).—A Trypanosome (= *T. evansi*?) of horses in Annam; VASSAL, Ann. Inst. Pasteur, **20**, (256-295).—Trypanosome of "Soumaya," Moyen-Niger; PÉCAUD, Paris, C.-R. soc. biol., **60**, (58).

Trypanozoon gen. n., proposed for Mammalian Trypanosomes, (92); *T. ericeti*, (111), *T. indicum*, (112), spp. n.; LÜHE, in Handbuch der Tropenkrankheiten, Leipzig (J. A. Barth), **3**, pt. 1.

Volvox aureus (= *V. minor*), parthenogonidia, sexual elements and conjugation; STEMPPEL, Zool. Anz., **30**, (535-539).

(b) Silicoflagellata.

Hermesinum gen. n., (*Dietyochida*), *H. adriaticum* sp. n., Mittelmeer; ZACHARIAS, Arch. Hydrobiol., **1**, (394-398, and 514).

(c) Dinoflagellata.

Blastodinida ord. n.:

Blastodinium gen. n., *B. pruvoti* sp. n., parasitic in various Copepods; CHATTON, Paris, C.-R. Acad. sci., **143**, (981-983, with figg.).

Ceratium bucceros sp. n. ZACHARIAS, Arch. Hydrobiol., **1**, (551).—*C. flagelliferum* varr. n. *angusta*, (544), and *areolata*, (553), *C. lunula* var. n. *obliqua*, (559), *C. volans* Cleve form. n. *porrecta*, (558); ZACHARIAS, Arch. Hydrobiol., **1**.—*C. "tripos" longinum*, (fig. 18), *protuberans*, (fig. 27), *macroceroides*, (fig. 28), spp. n. [or subspecies?], Atlantic Ocean; KARSTEN, Wiss. Ergebn. d. Tiefsee-Exped., II, **2**, ii, (140-146).

Cladopyxis steini sp. n.; ZACHARIAS, Arch. Hydrobiol., **1**, (567).

Dinophysis homunculus varr. n. *cavinata*, *appendiculata*; ZACHARIAS, Arch. Hydrobiol., **1**, (540).

Gonyaulax triacantha, skeletal structure; KOFOID, Zool. Anz., **30**, (102-105, 3 text-figs.).

Gymnodinium roseum (20), *G. affine* (26), *G. parasiticum* (28), *G. coeruleum* (35), spp. n. Neapel; DOGIEL, Mitt. zool. Stat. Neapel, **18**, 2 pls.

Heterodinium **gen. n.** with **subgenn. n.** *Sphaerodinium*, *Euheterodinium*, *Platy-dinium*, for *H. sphaeroides*, *H. inaequale*, *H. rigdenae*, *H. serippsi*, *H. whittingae* **spp. n.** and *H. murrayi* **nom. nov.** (for *Peridinium tripos* Murray & Whitting); KOFOID, Berkeley, Univ. Cal., Pub. Zool., **2**, (341-368, 3 pls.).

Peridinium depressum, Formenkreis, *P. d. parallelum* **subsp. n.**; BROCH, Nyt. Mag. Naturw., **44**, (151-157).—*P. oceanicum*, verschiedene Formen; BROCH, Nyt. Mag. Naturw., Kristiania, **44**, (151-157).—*P. divergens* **var. n. obtusa**; ZACHARIAS, Arch. Hydrobiol., **1**, (539).—*P. divergens* **varr. obtusum** (149, fig. 12), **pyramidale** (150, fig. 14), **excavatum** (150, fig. 15), **curricorne** (150, fig. 16), **granulatum** (150, fig. 17), **varr. nn.**, *P. areolatum* Atlantic **sp. n.** (150, fig. 18); KARSTEN, Wiss. Ergebn. d. Tiefsee-Exped., **2**, 2, ii.

Pouchetia armata **sp. n.**, Neapel; DOGIEL, Mitt. zool. Stat. Neapel, **18**, (36, figg.).

Pyrocystis lunula **var. n. globosa** multiplication; APSTEIN, Wiss. Meeresunters., Abt. Kiel, **9**, (261-271, 1 Taf.).

Pyrodinium **gen. n.**, *bahamense* **sp. n.** Bahama-Archipel; PLATE, Arch. Protistenkunde, **7**, (411-429, 1 Taf.).

Triposolenia **gen. n.** (101), *T. truncata* (102, fig. 5), *T. depressa* (104, figs. 3 and 4), *T. bicornis* (105, figs. 1, 2), *T. ramificiformis* (107, fig. 7), *T. ciliaris* (108, fig. 8), **spp. n.** plankton, San Diego region; KOFOID, Berkeley, Univ. Cal. Pub. Zool., **3**.—*Triposolenia* **spp.** characters compared; KOFOID, T.c. (117-126).

(d) Rhynchoflagellata.

(*Radiozoum* **gen. n.**, *R. lobatum* **sp. n.**; MINGAZZINI, Roma, Ric. Lab. anat. norm., **10**, (97-108, con. 1 tav.).)

5. CILIOPHORA.

(a) Ciliata.

Aspirotrichous Holotricha, detailed classification and description (after Averintzer); SCHOUTEDEN, Ann. Biol. lacustre, **1**, (383-468, 62 text-figg.).

Parasitic Infusoria, general account; BOUGOX, Microgr. Prépar., **14**, (79-90, 217-222, 260-271, pls. ix-xxiv.).

Les sphérales trophoplasmiques des Infusoires ciliés; KUNSTLER and GINESTE, Paris, C.-R. Acad. sci., **141**, (907-908).

Conjugation of Infusoria; VERSLUYS, Biol. Centralbl., **26**, (46-62).

An experimental study on the life-history of hypotrichous Infusoria; WOODRUFF, J. Exp. Zool., **2**, (585-632, 3 pl., 12 text-fig.).

Balantidium giganteum **sp. n.** [name preoc. Bezzenberger, 1903]; KRAUSE, D. Arch. klin. Med., **86**, (442-455).

Campanella umbellaria, L. **sp.** (*Epistylis flavicans* + *grandis* Ehrbg.), structure; SCHRÖDER, Arch. Protistenkunde, **7**, (75-105, 2 Taf.).

Capriua **gen. n.** (*Urecolaridae*) for *C. aurantiaca*, **sp. n.**, parassita delle branchie degli agoni; MAZZARELLI, Rivista mensile di Pesca, **8**, (205-208, 3 fig.).

Chilolonschewiakoffi **sp. n.**; SCHOUTEDEN, Ann. Biol. lacustre, **1**, (114).

Cinetochilum bütschlii **sp. n.**; SCHOUTEDEN, Ann. Biol. lacustre, **1**, (116).

Codonella biedermani, *C. brevicaulata*, *C. caudata*, Pacific, *C. nationalis*, Mittelmeer, **spp. n.**; BRANDT, Tintinnod. Plankton-Exp., (3, pls.).

Corliella **subgen. n.** (*Cyttarocylis*); BRANDT, T.c. (7).

Cryptochilidium, **gen. n. ?** for *Cryptochilum cucnoti*; SCHOUTEDEN, Ann. Biol. lacustre, **1**, (440).

(*Cryptochilum echini* (Maupas), cytoplasmic differentiation, meganuclear fragmentation and its significance with regard to senescence and conjugation; RUSSO and DI MAURO, Catania, Boll. Acc. Gioenia (N. ser.) fasc. **84**, (3-9, 7 figs., 9-13, 2 figs., 10-15, 6 figs.).)

Cyttarocylis arcuata Westafrika, *C. cylindrica* Sargasso-Meer, *C. inflexa* Atlantic, *C. obscura* Brasilien, *C. ollula* Pacific, *C. siphon*, *C. acus*, *C. cymatica*, *C. dicymatica*, *C. ornata*, Atlantic, *C. scandens* Neupoumeru, *C. dilatata* Äquatorialstrom, *C. favata*, *C. lanceolata*, Atlantic, *C. scalaris* Mittelmeer, **spp. n.**; BRANDT, Tintinnod. Plankton-Exp., (5-7, with pls.).

Diinium balbianii, notes on; SCHOUTEDEN, Ann. Biol. lacustre, **1** (118).—*D. nasutum* O. F. M., conjugation; PRANDTL, Arch. Protistenkunde, **7**, (229-258, 2 Taf.).

Entodinium bursa, Athmungsbedingungen, KULAGIN, Jestestv. i geogr., **11**, (1-11).

Epalxis mirabilis, notes on; SCHOUTEDEN, Ann. Biol. lacustre, **1**, (117).

Epistylis gasterostei sp. n., and the origin of the *Urecolariidae*; FAURÉ-FRÉMIET, Paris, C.-R. Soc. Biol., **60**, (347-349).—*E. plicatilis*, structure; SCHRÖDER, Arch. Protistenkunde, **7**, (173-185, 1 Taf.).

Glaucoma pyriformis et l'organisation de la substance vivante; FAURÉ-FRÉMIET, Nancy, C.-R. ass. anat., **8**, (120-127, fig.).

Isotricha prostoma, Athmungsbedingungen; KULAGIN, Jestestv. i geogr., **11**, (1-11).

Ichthyophthirius multifiliis; CLEVISCH, D. tierärztl. Wochenschr., **13**, (183-184).

Nematopoda cylindrica cf. *Tintinnoidium*.

Nyctotherus piscicola, Daday, described; DADAY, Math. Term. Ért., **23**, (555-560, 2 fig.).

Opalina, orientation of body; KUNSTLER & GINESTE, Paris, C.-R. soc. biol., **61**, (136).

(*Opercularia henneguyi* (183, fig. 1), *O. gracilis* (187, fig. 2), *O. fabrei* (188, fig. 3), *O. microdiscum* (190, fig. 4), spp. n.; FAURÉ, Arch. Anat. microsc., **7**.)

Ophrydium versatile, described; FAURÉ-FRÉMIET, Paris, C.-R. soc. biol., **61**, (46-48).

Opisthonecta gen. n. (*Vorticellidae*), *O. henneguyi* sp. n.; FAURÉ-FRÉMIET, Paris, C.-R. soc. biol., **60**, (922-923).

Paramœcium, physiology; CHAINSKIJ, Varšava, Izv. Univ., **1906**, (1-48, 35 figg.).—*P. caudatum*, cycles of generations; general significance of conjugation; CALKINS, J. Exp. Zool., **1**, (423-461, 3 pl., 3 text fig.).—*P. aurelia*, variation; CALKINS, New York, N.Y., Proc. Soc. Exp. Biol. Med., **3**, (48-49).

Petalotricha capsula sp. n. Indopacific; BRANDT, Tintinnod. Plankton-Exp., (8, pl.).

Ptychoecylis calyx sp. n. Atlantic; id. T.c. (8, pl.).

Rhabdonella subgen. n. (*Ptychoecylis*); id. T.c. (8).

Stentor coerules, and *S. roeselii*; SCHRÖDER, Arch. Protistenkunde, **8**, (1-16, 1 Taf.).

Tintinnidae (*Tintinnus* and *Cyrtarocylis*); ungeschlechtliche und geschlechtliche Fortpflanzung; LAACKMANN, Zool. Anz., **30**, (410-443).

Tintinnidium incertum sp. n. Tocantins-Mündung; BRANDT, Tintinnod. Plankton-Exp., (10, pl.).

Tintinnoidium inquilinum (= *Nematopoda cylindrica*, Sand); FAURÉ-FRÉMIET, Paris, C.-R. soc. biol., **61**, (395-397).

Tintinnopsis bermudensis Bermudas, *T. capulus*, *T. aperta*, Tocantins-Mündung, *T. fracta* Südwestafrika and Borneo, etc., *T. nordqvisti* Tocantins-Mündung and Borneo, spp. n.; BRANDT, Tintinnod. Plankton-Exp., (3-4, with pls.).

Tintinnus bulbosus, *T. emarginatus*, *T. palliatus* Atlantic, *T. conicus*, *T. datura* Atlantic and Pacific, *T. regulatus* Atlantic, spp. n.; BRANDT, Tintinnod. Plankton-Exp., (9-10, pls.).—*T. cuspidatus* (519), *T. mucronatus* (555), *T. triton* (519), *T. zonatus* (525), spp. n.; ZACHARIAS, Arch. Hydrobiol., **1**.

Trichodinopsis paradoxa Clap. et Lachm., struttura e biologia; ISSEL, Genova, Ann. Museo Civ. st. nat., **2**, (334-357, 6 fig. e 2 tav.).

Undella collaria, *U. marsupialis*, Atlantic, *U. tridivisa* Äquatorialstrom, *U. armata* Pacific, *U. messinensis* Atlantic und Mittelmeer, *U. tenuirostris* Neupommern, spp. n.; BRANDT, Tintinnod. Plankton-Exp., (8-9, pls.).

Vorticella monilata, described; SCHRÖDER, Arch. Protistenkunde, **7**, (395-410, 1 Taf.).—*V. oceanica* sp. n.; ZACHARIAS, Arch. Hydrobiol. **1** (554).

Vorticellids (esp. *Opercularia*), specific commensalism and its principal factors; FAURÉ-FRÉMIET, Paris, C.-R. soc. biol., **61** (456-458, 514-515, 583-585).

Nystonella subgen. n. (*Cyrtarocylis*); BRANDT, Tintinnod. Plankton-Exp. (6).

(b) Acinetaria.

Dendrosomides gen. n., *D. paguri* sp. n., ectoparasitic on *Eupagurus*; COLLIN, Arch. zool., N. et R. **5**, (lxiv-lxvi, with fig.).

III. PORIFERA OR SPONGIDA

ARRANGED BY

I. B. J. SOLLAS

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I.—TITLES.

Allemand, A. La culture et l'acclimatation des Éponges en Tunisie. Paris, C.-R. ass. franç. avanc. sci., **35**, (Lyon, 1906, 1^{re} partie), **1906**, (117–118).

Allemand, A. (dit A. ALLEMAND-MARTIN). Étude de physiologie appliquée à la spongioculture sur les côtes de Tunisie. Tunis (J. Picard), 1906, (195, 19 pls.). 24 cm. 5. [Thèse de la Faculté des sciences de Lyon.]

Annandale, N[elson]. 1. Notes on the freshwater fauna of India. No. 1. A variety of *Spongilla lacustris* from brackish water in Bengal. Calcutta, J. As. Soc. Beng., **2**, No. 3, 1906, (55–58).

Annandale, N. 2. Notes on the freshwater fauna of India. No. V. Some animals found associated with *Spongilla carteri* in Calcutta. Calcutta, J. As. Soc. Beng., **2**, No. 5, 1906, (187–196).

Arévalo, C. Investigaciones opticas sobre espículas de algunas especies de esponjas españolas. [Optical investigations on the spicules of some species of Spanish sponges.] Madrid, Bol. Soc. esp. hist. nat., **6**, 1906, (368–375).

Baer, Leopold. Silicispongien von Sansibar, Kapstadt und Papeete. Arch. Natg., Berlin, **72**, Bd. 1, [1905], 1906, (1–32, 5 Taf.).

Butschli, O[tto]. Ueber die Skelettnadeln der Kalkschwämme. Entgegnung auf die Mitteilung von Prof. E. Weinschenk. Centralbl. Min., Stuttgart, **1906**, (12–15).

Clark, W[illiam] B[allock]. Coelenterata. [Pleistocene. Porifera.] Maryland Geol. Surv., Pliocene and Pleistocene, Baltimore, **1906**, (213–214, pl.).

Cotte, Jules. La pêche des éponges en Tunisie. Paris, C.-R. ass. franç. avanc. sci., **34**, (Cherbourg, 1905, 2^e partie), **1906**, (587–593).

Cotte. Gemmulation chez *Suberites domuncula*. Paris, Bull. ass. franç. avanc. sci., **1904**, (266).

[**Derjugin, K. M.**] Дерюгинъ, К. М. Мурманская биологическая станція. 1899–1905. [Murmansche biologische Station, 1899–1905.] St. Peterburg, Trav. Soc. nat., **37**, 1906, No. 18, (181). Spongia (133).

Dragnewitsch, P. Spongien von Singapore. Reise von Dr. Walter Volz. Zool. Jahrb., Jena, Abt. f. Syst., **23**, 1906, (439–448).

Fiddes, J. D. *vide* Thomson, J. A.

Gravier, Ch. Notice sur les titres et les travaux scientifiques de M. Charles Gravier. Paris (Masson), 1902, (86, av. fig.). 27 cm.

Hammer, Ernst. 1. Ueber *Sycandra raphanus* H. Verh. D. zool. Ges., Leipzig, **16**, 1906, (269–273).

Hammer, E. 2. Zur Kenntnis des feineren Baues und der Entwicklung der Calcispongien. Berlin, SitzBer. Ges. natf. Freunde, **1906**, (135–139).

Hammer, E. 3. Zur Kenntnis von *Hircinia variabilis*. Berlin, SitzBer. Ges. natf. Freunde, **1906**, (149–155, 1 Taf.).

Herdman, W. A. Discussion of faunistic results. Rep. Pearl Oyster Fish., London, 1906, (433–449).

Hinde, G. J. Description of some fossils from a Croydon garden. Croydon, Proc. Microsc. Nat. Hist. Cl., **1904–1905**, 1905, (87–92, 2 pls.).

Kirkpatrick, R. Zoological results of the third Tanganyika expedition, conducted by Dr. W. A. Cunningham, 1904–1905. Report on the Porifera, with notes on the species from the Nile and Zambesi. London, Proc. Zool. Soc., **1906**, (218–227, 3 pls.).

Lauterborn, R. Faunistische und biologische Notizen, Gebiet des Oberrheins. Dürkheim, Mitt. Pollichia, **60**, 1904, (63-130). Spongien (121).

Lomas, J. The work of organisms in the making and unmaking of rocks. Liverpool, Proc. Trans. Biol. Soc., **20**, 1906, (3-14).

Loomis, F. B. Momentum in variation. Amer. Nat., Boston, Mass., **39**, 1905, (839-813).

Lydekker, R. Spicules of sponges. Knowledge and Sci. News, London, **1906**, 361).

Maas, O[tto]. 1. Ueber die Wirkung der Kalkentziehung auf die Entwicklung der Kalkschwämme. München, SitzBer. Ges. Morph., **20**, 1904, (1-21).

Maas, O. 2. Ueber die Einwirkung karbonatfreier und kalkfreier Salzlösungen auf erwachsene Kalkschwämme und auf Entwicklungsstadien derselben. Arch. EntwMech., Leipzig, **22**, 1906, (581-599).

Miner, Roy Waldo. A guide to the sponge alcove in the American museum of natural history. Guide leaflet No. **23**. Amer. Mus. J., New York, N.Y., **6**, 1906, (219-250).

Richet, Charles. De l'action toxique de la subérine (extrait aqueux de *Suberites domuncula*). Paris, C.-R. soc. biol., **61**, 1906, (598-600).

Schiller, K. vide Schorler, B.

Schmitt, J. Monographie de l'île d'Anticosti. Porifera, 1904, (102, 212-213). 8vo.

Schorler, B., Thallwitz et Schiller, K. Pflanzen- und Tierwelt des Moritzburger Grosssteiches bei Dresden. Ann. Biol. lacustre, Bruxelles, **1**, 1906, (193-311).

Schulze, F. E. 1. Die Xenophyophoren der Siboga-Expedition. Siboga Expeditie, **31**, Mon. I bis., 1906, (1-18).

Schulze, F. E. 2. Die Xenophyophoren der amerikanischen Albatros-Expedition, 1904-05. Berlin, SitzBer. Ges. natf. Freunde, **1906**, (205-229, 1 Karte).

Seely, H[enry] M[artyu]. 1. Beekmantown and Chazy formations in the Champlain valley, contributions to their geology and palaeontology. Vermont, Rep. Geol., Montpelier, **5**, 1906, (171-187, pl.).

Seely, H. M. 2. Cryptozoa of the early Champlain sea. Vermont, Rep. Geol., Montpelier, **5**, 1906, (156-173, pl.).

Siemiradzki, Jos[ef] von. Die paläozoischen Gebilde Podoliens. II. Paläontologischer Theil. Wien, Beitr. Pal. Geol. OestÜng., **19**, 1906, (213-286, 7 Taf.).

Slocum, A. W. A list of Devonian fossils collected in western New York, with notes on their stratigraphic distribution. Chicago, Ill., Pub. Field Columb. Mus. Geol. Ser., **2**, 1906, (257-265, 2 pls.).

Sollas, I. B. J. Porifera. [In] Cambridge Natural History, **1**, 1906, (163-212).

Sollas, W. J. The origin and formation of flints. [In] The Age of the Earth, 1905 (133-165).

Svarčevskij, B. [Сварчевскій, Б.] Матеріали для фауны глубокаго Бѣлаго Моря. [Beiträge zur Spongien-Fauna des Weissen Meeres.] Kiev, Zap. Obsč. jest., **20**, 1906, (308-371, Taf. 10-16). Deutsches Res.

Thallwitz vide Schorler, B.

Thomson, J. A. and Fiddes, J. D. Note on a rare sponge from the "Scotia" collection. Edinburgh, Proc. R. Physic. Soc., **16**, 1906, (231-232).

Topsent, E. 1. Note sur les Éponges recueillies par le "Français" dans l'Antarctique; description d'une *Dendrilla* nouvelle. Bul. Muséum, Paris, **1905**, (502-505).

Topsent, E. 2. Éponges recueillies par M. Ch. Gravier dans la Mer Rouge. Bul. Muséum, Paris, **1906**, (557-570).

Topsent, E. 3. Les clavulides purpurines. Bul. Muséum, Paris, **1906**, (570-575).

Topsent, E. 4. *Farrea occa* (Bowerbank) var. *foliascens* var. n. Bul. Mus., Monaco, No. **83**, 1906, (5).

Urban, Ferdinand. Kalifornische Kalkschwämme. Arch. Natg., Berlin, **72**, Bd 1, [1905], 1906, (33-76, mit 4 Taf.).

Walcott, C. D. Cambrian faunas of China. Washington, D. C., Smithsonian Inst. Nation. Mus. Proc., **29**, 1905, (1-106).

Weltner, Wilhelm]. [Jahresbericht über] Spongiae für 1904. Arch. Natg., Berlin, **66**, Bd 2, H. 3, 1900 [1906], (533-578).

Whiteaves, J. F. The fossils of the Silurian (Upper Silurian) rocks of Keewatin, Manitoba, the north eastern shore of Lake Winnipegosis and the lower Saskatchewan River. Ottawa, Geol. Surv. Can., Pal. Fossils, **3**, 1906, (243-315).

Whitelegge, Thomas. Sponges [of the Thetis Expedition]. Sydney, N.S.W., Mem. Austr. Mus., **4**, pt. 9, 1906, (453-484, with 2 pls.).

Woodland, W. Studies in spicule formation. IV. Q. J. Microsc. Sci., London, **49**, 1906, (533-561).

Zahálka, Č. Zone X der Kreideformation im Isergebiet. Prag, SitzBer. Böhm. Ges. Wiss., **1905**, No. 17, Porifera, (159).

Zeise, O. Über die miocene Spongienfauna Algeriens. Berlin, SitzBer. Ak. Wiss., **1906**, (911-961).

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†Eascones n. order, including *Eospongia*, *Stromatocerium*, *Cryptozoon*, *Strephochetus* and *Wingia*, SEELY, Vermont, Rep. Geol., 5, (171).

†*Stromatoceridae* n. fam. of Evascones, SEELY, T.c. (171).

†*Cryptozoon steeli*, *saxiroseum*, *wingia* spp. n., SEELY, T.c.

†*Wingia* gen. n. *congregata*, *lapilla*, *discoidea* spp. n., SEELY, T.c. (178).

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Leucandra heathi, *apicalis* spp. nn. California, URBAN, Arch. Natg., 72, (59).

Sycandra coacta sp. n. California, URBAN, T.c., (36).

Sycandra raphanus, HAMMER, Verh. D. zool. Ges., 16, (269-273); Entwicklung und feinerer Bau, Berlin, SitzBer. Ges. natf. Freunde, 1906, (135-139).

Porosphaera spp. from Chalk Croydon, HINDE, Croydon, Proc. Microsc. Nat. Hist. Cl., 1905, (87-92),

HEXACTINELLIDA.

(i.) LYSSACINA.

Protospongia chloris sp. n., Middle Cambrian, China, WALCOTT, Washington, D.C., Nation. Mus. Proc., 29, (10).

Sphaerospongia podolica sp. n., SIEMIRADZKI, J. v., Wien, Beitr. Pal. Geol. OestUng., **19**, (213-286, mit 7 Taf.).

(ii) DICTYONINA.

Farrea oeca (Bwk) var. *foliascens* var. n. Azores and Madeira, TOPSENT, Bull. Mus., Monaco, No. **83**, 1906.

OCTACTINELLIDA.

Astracospongia hamiltonensis, Moscow shale, Western New York, SLOCOM, Chicago, Ill., Pub. Field Columb Mus. Geol. Ser., **2**, (261).

DEMOSPONGIAE.

(i) TETRACTINELLIDA.

(1) CHORISTIDA.

Isops jousseanmei sp. n. Mer Rouge, TOPSENT, Bul. Muséum, Paris, **1906**, (569).

Sidonops globosa sp. n. Cape Town, BAER, Arch. Natg., **72**, (9).

Tethya Lamarek armata sp. n. Sansibar, BAER, T.c., (4).

Tethyopsilla globosa sp. n. Sansibar, BAER, T.c., (5).

(2) LITHISTIDA.

†*Plinthosella* sp. Chalk Croydon, HINDE, Croydon, Proc. Microsc. Nat. Hist. Cl., **1905**, (87-92).

(ii) MONAXONIDA.

(a) HADROMERINA.

Clavulides purpurines, TOPSENT, Bul. Muséum, Paris, **1906**, (570-575).

†*Cliona sulphurea*, Pleistocene Maryland, CLARK, Maryland Geol. Surv., Baltimore, **1906**, (213-214, with pl.).

Coppatias sansibarensis sp. n. Zanzibar, BAER, Arch. Natg., **72**, (23).

Proteleia borealis sp. n. Weisses Meer, SVARČEVSKIJ, Kiev, Zap. Obsč. jest., **20**, (315, 357).

Spirastrella bonneti sp. n. Victoria, Australie du Sud, TOPSENT, Bul. Muséum, Paris, **1906**, (573).

Suberites domuncula, gemmulation, COTTE, Paris, Bull. ass. franç. avanc. sci., **1904**, (266).

(b.) HALICHONDRIINA.

Amphilectus terzensteini sp. n., Weisses Meer, SVARČEVSKIJ, Kiev, Zap. Obsč. jest., **20**, (343, 361).

Axinella sp. indet., probably new, deep water between Gough I. and Capetown, THOMSON and FIDDES, Edinburgh, Proc. R. Physic. Soc., **16**, (231).

Axinyssa gravieri sp. n. Mer Rouge, TOPSENT, Bul. Muséum, Paris, **1906**, (563).

Chondropsis syringianus sp. n., N. S. Wales, WHITELEGGE, Sydney, N.S.W., Mem. Austr. Mus., **4**, (164, pl. 43, fig. 1).

Cladorhiza waitei sp. n., N. S. Wales, WHITELEGGE, T.c., (473, pl. 41, figs. 13, 13a).

Dendoryx inaequalis Papeete, *simplex* Cape Town, spp. n., BAER, Arch. Natg., **72**, (21).

Dendoryx punicea, *fusca* spp. n., N. S. Wales, WHITELEGGE, Sydney, N.S.W., Mem. Austr. Mus., **4**, (480-481, pls. 44-45).

Desmacidon porifera, *hispidosa*, *stelligera*, *arenosa*, *conulissima* spp. n., N. S. Wales, WHITELEGGE, T.c., (175-179, pl. 41).

Donatia viridis Papeete, *parristella* Zanzibar, spp. n., BAER, Arch. Natg., **72**, (26).

Donatia arabica sp. n., Mer Rouge, TOPSENT, Bul. Muséum, Paris, **1906**, (567).

Echinodictyum flabellatum sp. n., Mer Rouge, TOPSENT, T.c., (561).

Ephydatia plumosa Carter var. *browni* var. n., White Nile, KIRKPATRICK, London, Proc. Zool. Soc., **1906**, (226).

Esperella rarpachowski sp. n., Weisses Meer, SVARČEVSKIJ, Kiev, Zap. Obsč. jest., **20**, (346, 361).—*E. ancorina*, *cylindrica*, *textilis* spp. n., N. S. Wales, WHITELEGGE, Sydney, N.S.W., Mem. Austr. Mus., **4**, (166-168, pl. 13).

Esperiopsis canaliculata, ferruginea, **spp. n.**, N. S. Wales, WHITELEGGE, T.c., (471-472, pl. 43).

Gellius reptans **sp. n.**, N. S. Wales, WHITELEGGE, T.c., (462).

Halichondria papillata Papeete, *reticulata, digitata* Zanzibar, **spp. n.**, BAER, Arch. Natg., **72**, (11).—*H. axinelloides, aspera* **spp. n.**, Weisses Meer, SVARČEVSKIJ, Kiev, Zap. Obšč. jest., **20**, (322, 358).

Iotrochota arbuscula **sp. n.**, N. S. Wales, WHITELEGGE, Sydney, N.S.W., Mem. Austr. Mus., **4**, (182, pl. 11, fig. 18).

Leptosia lancifera **sp. n.**, Mer Rouge, TOPSENT, Bul. Muséum, Paris, **1906**, (560).

Lissodendoryx monticularis **sp. n.**, Sansibar, BAER, Arch. Natg., **72**, (22).

Mycale imperfecta **sp. n.**, Zanzibar, BAER, T.c. (20).

Myzilla hastatispiculata, iophonoides **spp. n.**, Weisses Meer, SVARČEVSKIJ, Kiev, Zap. Obšč. jest., **20**, (338, 360).

Pachychalina alveolopora **sp. n.**, Mer Rouge, TOPSENT, Bul. Muséum, Paris, **1906**, (559).

Pachychalina nipa **sp. n.**, Zanzibar, BAER, Arch. Natg., **72**, (15).

Phelloderma polypoides **sp. n.**, N. S. Wales, WHITELEGGE, Sydney, N.S.W., Mem. Austr. Mus., **4**, (174, pl. 44, fig. 12).

Reniera decidua **sp. n.**, Mer Rouge, TOPSENT, Bul. Muséum, Paris, **1906**, (560).—*R. mollis* **sp. n.**, Zanzibar, BAER,

Arch. Natg., **72**, (14).—*R. merojkowskii, pulchra, papillifera, hirsuta, firma, bulbifera* **spp. n.**, Weisses Meer, SVARČEVSKIJ, Kiev, Zap., Obšč. jest., **20**, (328, 358).

Rhaphisia ramosa **sp. n.**, N. S. Wales, WHITELEGGE, Sydney, N. S. W., Mem. Austr. Mus., **4**, (463, pl. 13, fig. 4).

Spongilla cunningtoni L. Tanganyika (221), *rousseletii* Zambesi (223), *S. (?) zambesiana* Zambesi (225) **spp. n.**, *S. carteri* Bwk, *moorei* Evans, *tanganyikae* Evans, described and figured; KIRKPATRICK, London, Proc. Zool. Soc., **1906**, (218-227).—*S. lacustris* var. *n. bengalensis* described, ANNANDALE, Calcutta, J. As. Soc. Beng., **2**, (56-57).

Tedania digitata Schmidt varr. *n.*, *sansibarensis, fragilis, conica*, BAER, Arch. Natg., **72**, (17).

Vosmaeria robusta **sp. n.**, Weisses Meer, SVARČEVSKIJ, Kiev, Zap. Obšč. jest., **20**, (320, 357).

Yresia commensalis **sp. n.**, N. S. Wales, WHITELEGGE, Sydney, N.S.W., Mem. Austr. Mus., **4**, (483, pl. 44, fig. 9).

(iii.) KERATOSA.

Tiefsee-Hornsporgien von Haeckel als eine besondere Rhizopoden-Gruppe aufgefasst; SCHULTZE, Berlin, SitzBer. Ges. natf. Freunde, **1906**, (205-229).

Dendrilla antarctica **sp. n.**, Antartique, TOPSENT, Bul. Muséum, Paris, **1906**, (504).

Hircinia variabilis, Larve, Entwicklungsgeschichte der Filamente, HAMMER, Berlin, SitzBer. Ges. natf. Freunde, **1906**, (149-155, mit 1 Taf.).

IV. COELENTERATA

ARRANGED BY

H. M. WOODCOCK, D.Sc. (LOND.) AND A. D. IMMS

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I.—TITLES.

N.B.—Titles in round brackets refer to memoirs that have been previously recorded in the *Zoological Record*, those in square brackets refer to memoirs recorded in antecedent volumes of the *Int. Cat. Sci. Lit.*

Abbott, J. F. Morphology of *Cero-plana*. Science, New York, N.Y., **23**, 1906, (524).

(**Allabach, Lula F.** Some points regarding the behavior of *Metridium*. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **10**, 1905, (35-43).)

Bakalow, P. 1. *Stromatorhiza*, eine Stromatoporidae aus dem oberen Rauracien des Schweizer Jura. N. Jahrb. Min., Stuttgart, **1906**, I, (13-15, mit 1 Taf.).

(**Bakalow, P. 2.** Vorläufige Mittheilung über die Fauna der Trias und des Jura von Kotel (Bulgarien). Centralbl. Min., Stuttgart, **1905**, (481-483).)

Bancroft, Frank W. 1. Note on the galvanotropic reactions of the medusa *Polyorchis penicillata* A. Agassiz. J. Exp. Zool., Baltimore, Md., **1**, 1901, (289-292).

(**Bancroft, F. W. 2.** Note on the galvanotropic reactions of the medusa *Polyorchis penicillata* A. Agassiz. [Reprint.] Berkeley, Univ. Cal. Pub., Physiol., **2**, 1901, (43-46).)

Beede, J[oshua] W[illiam]. 1. Foraminifera and Anthozoa. [In: Cumings, E. R. and others. Fauna of the Salem limestone.] Indiana, Rep., Dept. Geol. Nat. Res., Indianapolis, **30**, (1905), 1906, (1201-1218, with pl.).

Beede, J. W. 2. A correction [to Cumings, E. R. and others. Fauna of the Salem limestone]. Concerning *Cystelasma rugosum* and *C. quinqueseptatum*.

(s-9720 i)

Science, New York, N.Y., N. Ser., **24**, 1906, (591).

Benham, W. B. On a new species of *Sarcophyllum* from New Zealand. Zool. Anz., Leipzig, **31**, 1906, (66-67).

Bernard, Henry M. 1. Catalogue of the Madreporarian Corals in the British Museum. Vol V. The family *Poritidae*. II. The genus *Porites*. Part I. *Porites* of the Indo-Pacific region. London, 1905, (vi + 303, 35 pls.). 4to.

Bernard, H. M. 2. . . . Vol. VI. The Family *Poritidae*. II. The genus *Porites*. Part II.—*Porites* of the Atlantic and West Indies with the European fossil forms. The genus *Goniopora* [Supplement to vol. IV.] London, 1906, (vi + 173, 17 pl.). 4to.

Billard, A. 1. Note sur les hydroïdes du Travailleur et du Talisman. Bul. Muséum, Paris, **12**, 1906, (329-334).

Billard, A. 2. Mission des pêcheries de la côte occidentale d'Afrique. III. Hydroïdes. Bordeaux, Actes. soc. lin., **61**, 1906, (173-180, 4 figs.).

(**Billard, A. 3.** Contribution à l'étude des Hydroïdes. Ann. sci. nat. (zool.), Paris, sér. 8, **20**, 1904, (1-251, pls. 1-6, 89 text-figs.).)

Bohn, Georges. 1. Sur les courbures dues à la lumière. Paris, C.-R. soc. biol., **61**, 1906, (420-422, av. fig.).

Bohn, G. 2. Mouvements en relation avec l'assimilation pigmentaire chez les animaux. Paris, C.-R. soc. biol., **61**, 1906, (527-528).

Bohn. 3. La persistance du rythme des marées chez l'*Actinia equina*. Paris, C.-R. soc. biol., **61**, 1906, (661-663).

Bohn, G. et Piéron, Henri. Le rythme des marées et le phénomène de l'anticipation réflexe. Paris, C.-R. soc. biol., **61**, 1906, (666-661).

Bourne, Gilbert C. Report on *Jousseaumia*, a new genus of Eulamelli-branchs commensal with the corals *Heteroeyathus* and *Heteropsammia*, collected by Professor Herdman, at Ceylon, in 1902. London, Rep. Ceylon Pearl Oyster Fish., **5**, 1906, (243-266, 3 pls.).

Breemen, P[ictet] J[ohan] van. Bemerkungen über einige Planktonformen. Helder, Verh. Onderz. Zee, **1**, **5**, 1906, (1-8, mit 1 Taf.).

Browne, Edward T. **1.** On the freshwater Medusa *Limnocnida tangani-æ* and its occurrence in the river Niger. Ann. Mag. Nat. Hist., London, Ser. **7**, **17**, 1906, (304-306).

Browne, E. T. **2.** Biscayan Plankton collected during a cruise of H.M.S. "Research," 1900. Part IX.—The *Medusae*. With a note on the distribution of the Medusae by G. H. Fowler. London, Trans. Linn. Soc., **10**, 1906, (163-187, pl. 13).

Browne, E. T. **3.** On the freshwater Medusa liberated by *Microhydra ryderi*, Potts, and a comparison with *Limnoco-dium*. Q. J. Microsc. Sci., London, **50**, 1906, (635-645, pl. xxxvii).

Carlgren, Oskar. **1.** Die Actinien-Larven. [In: Nordisches Plankton, Lfg 5.] Kiel u. Leipzig (Lipsius & Tischer), 1906, (xi 65-xi 87).

Carlgren, O. **2.** Anthozoa. [Forts.] (H. G. Bronn's Klassen u. Ordnungen des Tier-Reichs, Bd 2, Abt. 2, Lfg. 2.3.) Leipzig (C. F. Winter), 1906, (49-112). 26 cm.

Carruthers, R. G. The primary septal plan of the Rugosa. Ann. Mag. Nat. Hist., London, Ser. **7**, **18**, 1906, (356-363, pl. ix).

(**Child, C[harles] M[anning]**). Form-regulation in *Cerianthus*, IX. Regulation, form, and proportion. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **8**, 1905, (271-289).

Congdon, Edgar Davidson. Notes on the morphology and development of two species of *Eudendrium*. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **11**, 1906, (27-46).

Cuénot, L. Les Eolidiens empruntent leurs nématocystes aux Cœlentérés dont ils se nourrissent. Paris, C.-R. soc. biol., **61**, 1906, (541-543); et

Réunion biologique de Nancy, **1906**, (59-61).

Daday, Jenő. Édesvizi mikroskopi állatok Mongoliából. [Mikroskopische Süßwassertiere aus der Mongolei.] Math. Term. Ért., Budapest, **24**, 1906, (31-77).

Delap, M. J. **1.** Notes on the rearing, in an aquarium, of *Aurelia aurita* L. and *Pelagia perla* (Slabber). Dublin, Fish. Ireland Sci. Invest., **1905**, **V**, [1906], (22-26, pls. i and ii).

Delap, M. and C. **2.** Notes on the plankton of Valencia Harbour. Dublin, Fish. Ireland Sci. Invest., **1905**, **VII**, [1906], (3-26, pls. i, ii, tables).

Deninger, K[arl]. Einige neue Tabulaten und Hydrozoen aus mesozoischen Ablagerungen. N. Jahrb. Min., Stuttgart, **1906**, **I**, (61-70, mit 3 Taf.).

Dennant, J. Madreporaria from the Australian and New Zealand coasts. Adelaide, S. Austr., Trans. R. Soc., **30**, 1906, (151-165, pls. v, vi).

Dollfus, G. F. Faune malacologique du Miocène supérieur de Gourbesville (Manche), étage Redonien. Paris, C.-R. ass. franç. avanc. sci., **34**, 1905, [1906], (358-371).

Duerden, J[ames] E[dwin]. **1.** The primary septa in Rugose corals. Science, New York, N.Y., N. Ser., **24**, 1906, (246-247).

Duerden, J. E. **2.** Continuation of investigations on the morphology and development of recent and fossil corals and physiology of the Zoantharia. Washington, D.C., Carnegie Inst., Year Book No. 4, (1905), 1906, (277-278).

Duerden, J. E. **3.** The rôle of mucus in corals. Q. J. Microsc. Sci., London, **49**, 1906, (591-614).

Duerden, J. E. **4.** The morphology of the Madreporaria. VII. Intrapoly-pal tentacles. Ann. Mag. Nat. Hist., London, Ser. **7**, **17**, 1906, (466-474, 5 text-figs.).

Duerden, J. E. **5.** The morphology of the Madreporaria. VIII. The primary septa of the Rugosa. Ann. Mag. Nat. Hist., London, Ser. **7**, **18**, 1906, (226-242, 21 text-figs.).

(**Duerden, J. E.** **6.** The morphology of the Madreporaria. VI. The fossula

in Rugose corals. Contributions from the Zoological Laboratory of the University of Michigan, No. 96, in Wood's Holl, Mass., Mar. Biol. Lab. Bull., **9**, 1905, (27-52).)

Elles, Gertrude L. and **Wood**, Ethel M. R. [Mrs. Shakespear]. A Monograph of British Graptolites. Part V. London, Monogr. Palaeont. Soc., **1906**, (lxxiii-xcvi, 181-216, pls. xxvi, xxvii).

Entz, Géza, *sen.* Az édesvízi hidra. [Über den Süßwasser-Armpolyp.] Term. Közl., Budapest, **38**, 1906, (649-669).

Evans, David Cledlyn. The Ordovician rocks of western Caemarthenshire. London, Q. J. Geol. Soc., **62**, 1906, (597-642).

Faurot, L. Embryogénie des Hexactinides, leurs rapports morphologiques avec les Oectanthides, le Scyphistome des Méduses et le Tétracorallia. Paris, C.-R. Acad. sci., **141**, 1905, (778-779).

Felix, Johannes. Ueber eine Korallenfauna aus der Kreideformation Ost-Galiziens. Berlin, Zs. D. geol. Ges., **58**, 1906, Aufsätze, (38-52, mit 1 Taf.).

Fowler, G. H. *vide* Browne, E. T.

Frech, Frigyes. A tengeri eredetű karbon Magyarországon. (Das marine Karbon in Ungarn.) Földt. Közl., Budapest, **36**, 1906, (1-50, [Hungarian], 103-153 [Cerman], Taf. i-ix).

Fritel, P. H. Les Méduses fossiles. Naturaliste, Paris, sér. 2, **1906**, (29-31, 41-42, text figs.).

[**Gardiner**, J. Stanley. **1**. The Turbinolid Corals of South Africa with notes on their anatomy and variation. Cape Town, Marin. Invest., **3**, 1905, (95-129, 3 pls.).]

Gardiner, J. S. **2**. The Indian Ocean. London, Geog. J., **27**, 1906, (313-333, 454-471).

Goldfarb, A. J. Experimental study of light as a factor in the regeneration of Hydroids. J. Exp. Zool., Baltimore, Md., **3**, 1906, (129-152).

Gordon, C. E. Studies on early stages in Paleozoic corals. Amer. J. Sci., New Haven, Conn., Ser. 4, **21**, 1906, (109-127, with text figg.).

Gordon, Maria M. Ogilvie. The lime-forming layer of the Madreporarian

polyp. Q. J. Microsc. Sci., London, **49**, 1906, (203-211).

Gough, Lewis Henry. On the distribution and the migrations of *Mugilæa atlantica*, Cunningham, in the English Channel, the Irish Sea, and off the South and West Coasts of Ireland in 1904. Kjöbenhavn, Cons. perm. internat. pour l'explor. de la mer. (Ser. C: Publications de circonstances). No. **29**, 1905, (1-13, with 3 maps).

Gravier, Ch. **1**. Sur un type nouveau d'Alcyonaire de la famille des *Virgularidae*. Paris, C.-R. Acad. sci., **142**, 1906, (1290-1291).

Gravier, C. **2**. Sur la biologie des Virgulaires. Paris, C.-R. Acad. sci., **142**, 1906, (1556-1558).

Gravier, C. **3**. Sur les formations coralliennes de l'île San Thomé (Golfe de Guinée). Paris, C.-R. Acad. sci., **143**, 1906, (929-931).

Gravier, C. **4**. Sur un type nouveau de Virgulaire. Bul. Muséum, Paris, **12**, 1906, (291-293).

Gravier, C. **5**. Sur la biologie des Virgulaires. Bul. Muséum, Paris, **12**, 1906, (391-395).

Gravier, C. **6**. Sur les formations coralliennes de l'île San Thomé (Golfe de Guinée). Bul. Muséum, Paris, **12**, 1906, (543-547).

Gravier, C. **7**. Notice sur les titres et les travaux scientifiques de M. Charles Gravier. Paris (Masson), 1902, (86, av. figs.). 27 cm.

(**Gravier**, C. **8**. Recherches sur un Cérianthaire pélagique du Golfe de Californie (*Dactylactis benedeni* n. sp.). Ann. sci. nat. (zool.), Paris, sér. 8, **20**, 1904, (253-294, pls. vii-x).)

Greene, George K. Contributions to Indiana palaeontology. Parts 1-3. Volume 2. New Albany, Ind., 1906. (1-17, 19-31, 33-38, pls.). 23.5 cm.

Gregory, J. W. On a collection of fossil Corals from Eastern Egypt, Abu Roash and Sinai. Geol. Mag., London, N. Ser., dec. V, **3**, 1906, (52-58, 110-118, pls. vi and vii).

Günther, R. T. Exhibition of, and remarks upon, Medusae from Lake Tanganyika. London, Proc. Zool. Soc., **1906**, (179-180).

Hadži, Jovan. Vorversuche zur Biologie von *Hydra*. Arch. EntwMech., Leipzig, **22**, 1906, (38-47).

Hahn, C. W. Dimorphism and regeneration in *Metridium*. J. Exp. Zool., Baltimore, Md., **2**, 1905, (225-235).

Hall, T. S. Reports on Graptolites, with plate, figure and map. Rec. Geol. Surv. Vict., Dept. Mines Melbourne, **1**, 1906, (266-278, pl. xxxiv).

Hallez, Paul. Sur le rhéotropisme de quelques Hydroïdes monosiphonés et des *Bugula*. Paris, C.-R. Acad. sci., **141**, 1905, (727-730, 840-843).

Hammatt, M. L. Reproduction of *Metridium marginatum* by fragmental fission. Amer. Nat., Boston, Mass., **40**, 1906, (583-591, incl. pl.).

Hargitt, Cha[rle]s W[esley]. **1.** The organisation and early development of the egg of *Clara leptostyla* Ag. Wood's Holl., Mass., Mar. Biol. Lab. Bull., **10**, 1906, (207-232, with pl.).

Hargitt, C. W. **2.** Variations among Scyphomedusae. J. Exp. Zool., Baltimore, Md., **2**, 1905, (547-584, with 1 pl., 17 text fig.).

Hargitt, C. W. **3.** Regeneration in *Rhizostoma pulmo*. J. Exp. Zool., Baltimore, Md., **1**, 1904, (73-94).

(**Hargitt, C. W.** **4.** Notes on the variations of *Rhegmatodes*. Wood's Holl. Mass., Mar. Biol. Lab. Bull., **9**, 1905, (368-377).)

Harms, W. Zur Kenntnis der Aleyonidengattung *Spongodes* Less. oder *Dendronephthya*. Zool. Anz., Leipzig, **30**, 1906, (539-548).

Heath, Harold. A new species of Semper's larva from the Galapagos Islands. Zool. Anz., Leipzig, **30**, 1906, (171-175).

Henderson, J. R. On a new species of coral-infesting crab taken by the R.I.M.S. "Investigator" at the Andaman Islands. Ann. Mag. Nat. Hist., London, Ser. 7, **18**, 1906, (211-219, pl. viii).

Henderson, W. D. vide Thomson, J. Arthur.

Hertwig, Richard. Ueber Knospung und Geschlechtsentwicklung von *Hydra fusca*. Biol. Centralbl., Leipzig, **26**, 1906, (489-508). Auch in: Festschr. für J. Rosenthal, Tl. 1. Leipzig (H. Thieme), 1906, (11-32).

Hickson, S[ydney] J. **1.** Coelenterata and Ctenophora. Cambridge Natural History, vol. 1, 1906, (243-424).

[**Hickson, S. J.** **2.** The *Aleyonaria* of the Cape of Good Hope. Part II. Cape Town, Marin. Invest., **3**, 1905, (211-239, 3 pls.).]

Hickson, S. J. **3.** Remarkable Coelenterata from the west coast of Ireland. (*Pleurocorallium*). Dublin, Fish. Ireland Sci. Invest., **1905**, v [1906], (3-4). [Reprinted from "Nature," **73**, 1905, (5); v. Zool. Rec. XLII, 1905, and Int. Cat., 5th Issue.]

Hickson, S. J. **4.** Precious Corals. [Presidential Address] Manchester, Trans. Microsc. Soc., **1905**, (29-38).

Hill, M. D. Notes on the maturation of the ovum of *Alcyonium digitatum*. Q. J. Microsc. Sci., London, **49**, 1906, (493-505).

Hind, Wheelton and Stobbs, John T. The Carboniferous succession below the coal-measures in North Shropshire, Denbighshire, and Flintshire. Geol. Mag., London, N. Ser., dec. v, **3**, 1906, (385-400, 445-459, and 496-507).

Hughes, T. McKenny. Ingleborough. Part IV. Stratigraphy and palaeontology of the Silurian. Yorks. Proc. Geol. Soc., N. Ser., **16**, pt. 1, 1906, (45-74).

[**Jäderholm, Elof.** Hydroiden aus antarktischen und subantarktischen Meeren. Wiss. Ergebn. Schwed. Süd-Pol.-Exped., 1901-1903, Stockholm, **5**, 8, 1905, (41, 14 pls.).]

Jakovlev, N. Ueber die Morphologie und Morphogenie der Rugosa. St. Petersburg, Verh. Russ. mineral. Ges., **41**, 1904, (395-415).

Jennings, H. S. Modifiability in behaviour. I. Behaviour of sea anemones. J. Exp. Zool., Baltimore, Md., **2**, 1905, (447-472).

Joubin, L. Les Coelentérés. Bul. Mus., Monaco, No. **66**, 1906, (38).

Kiær, J. Revision der mittelsilurischen Heliolitiden und neue Beiträge zur Stammgeschichte desselben. Kristiania, Skr. Vid. selsk., **1903**, (1904), No. 10, (58).

Koby, F. Polypiers bathoniens de St. Gaultier. Basel, Abh. Schweiz Pal. Ges., **33**, No. 4, 1906, (61, 4 pls.).

Krumbach, Thilo. [Jahresbericht über] Hydroidea und Acalephae (mit Ausschluss der Siphonophora) für 1896-1898. Arch. Natg., Berlin, **66**, Bd 2, H. 3, 1900, [1906], (381-456).—Desgl. für 1899-1900. l.c. (457-532).

Krumbeck, L. Beiträge zur Geologie und Palaeontologie von Tripolis. Palaeontographica, Stuttgart, **53**, 1906, (51-136, pls. vii-ix).

Kükenthal, W[illy]. 1. *Aleyonium brioniense* n. sp. Ein neues *Aleyonium* des Mittelmeeres. Jenaische Zs. Natw., **42**, 1906, (61-72, mit 1 Taf.).

Kükenthal, W. 2. Diagnosen neuer japanischer Aleyonaceen. Zool. Anz., Leipzig, **30**, 1906, (280-289).

Kükenthal, W. 3. Die Stammesgeschichte und die geographische Verbreitung der Aleyonaceen. Verh. D. zool. Ges., Leipzig, **16**, 1906, (133-149).

Kükenthal, W. 4. Aleyonacea. (Wissensch. Ergebnisse d. D. Tiefsee-Expedition, Bd 13. Lfg 1.) Jena (G. Fisher), 1906, (1-111, mit 12 Taf.). 35 cm. 25 M.

Kükenthal, W. 5. Die Aleyonaceen der Olga-Expedition (1898). Zoolog. Ergebnisse e. Untersuchungsfahrt nach der Bäreninsel u. Westspitzbergen, VII.) Wiss. Meeresunters., Kiel, N. F., **8**. Abt. Helgoland, 1906, (19-30, mit 1 Taf.).

Kükenthal, W. 6. Japanische Aleyonaceen. (In: Beiträge zur Naturgeschichte Ostasiens.) München (Verlag K. Akad. Wiss.), 1906, (9-86, 5 pls.).

Lambe, L. M. Notes on the fossil Corals collected by Mr. A. P. Low, at Beechy Island, Southampton Island, and Cape Chidley in 1904. In "Cruise of the Neptune" 1903-1904, edited by A. P. Low, Ottawa, Canada, **1906**, (322-328).

Lillie, Ralph S[tayner]. The relation between contractility and coagulation of the colloids in the Ctenophore swimming-plate. Amer. J. Physiol., Boston, Mass., **16**, 1903, (117-128).

Lorenz, Th. Beiträge zur Geologie und Palaeontologie von Ostasien unter besonderer Berücksichtigung der Provinz Shantung in China. Berlin, Zs. D. Geol. Ges. **53**, 1906, (53-108, pls. iv-vi).

Maas, Otto. 1. Die arktischen Medusen (ausschliesslich der Polypomedusen). [In: Fauna Arctica, Bd 4, Lfg 3.] 1906, (479-526).

Maas, O. 2. Medusen. Résultats du voyage du S.Y. Belgica, 1906, (1-30).

Maas, O. 3. Ueber eine neue Medusengattung aus dem lithographischen Schiefer. N. Jahrb. Min., Stuttgart, **1906**, 2, (90-99).

Marenzeller, E. v. Ergebnisse der Expeditionen S. M. Schiff. "Pola" in das Rote Meer 1895-1896-1897-1898 betreffen. I. Ueber den Septennachwuchs der Eupsamminen E. H. II. Tiefseekorallen. III. Rifffkorallen. Wien, Anz. Ak., Wiss., **1906**, (54-56, 85-86).

Martin, Ann ride Torrey, H. B.

May, Walther. [Jahresbericht über] Anthozoen für 1895-1896. Arch. Natg., Berlin, **66**, Bd 2, H. 3, 1900, [1906], (1-38).

Mayer, Alfred Goldsborough. 1. Medusae of the Hawaiian Islands collected by the steamer Albatross in 1902. Washington, D.C., Bull. U. S. Fish Com., **23**, (1903), Pt. 3, 1906, (1131-1143, with pl.).

Mayer, A. G. 2. Rhythmical pulsation in Scyphomedusae. Washington, Carnegie Institution. Publication No. 47, 1906, (11 + 62, with pl.).

McClendon, J. F. On the locomotion of a sea anemone (*Metridium marginatum*). Wood's Holl, Mass., Mar. Biol. Lab. Bull., **10**, 1906, (66-67).

McIntosh. Photogenic marine animals. Zoologist, London, **10**, 1903, (1-20).

Meek, Alexander. On Graptolites. Durham, Proc. Univ. Phil. Soc., **1**, 1898, (77-82).

Morgan, T[homas] H[unt]. 1. Hydranth formation and polarity in *Tubularia*. J. Exp. Zool., Baltimore, Md., **3**, 1906, (501-515).

Morgan, T. H. 2. An attempt to analyze the phenomena of polarity in *Tubularia*. J. Exp. Zool., Baltimore, Md., **1**, 1904, (587-591).

Morgan, T. H. and Stevens, N. M. Experiments on polarity in *Tubularia*. J. Exp. Zool., Baltimore, Md., **1**, 1904, (559-585, with 5 fig., 20 tables).

Morse, Max. Notes on the behaviour of *Gonionemus*. J. Comp. Neur. Psych., Granville, Ohio, **16**, 1906, (450-456).

Müllegger, S. Eigentümlicher Ortswechsel einer Seerose. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (76-77).

Mulder, J. F. 1. The Eocene deposits of Corio Bay. Geelong, Nat., **6**, 1897, (12-17).

Mulder. 2. Fossils from Campbell's Point. Geelong Nat., Ser. 2, **1**, 1904, (37-38).

Nöel, Eugene. Note sur la faune des galets du grès vosgien. Nancy, Bul. Soc. sci., sér. 3, **6**, 1905, (46-73, 2 pls.).

Oelzelt-Newin, Anton. Beobachtungen über das Leben der Protozoen. Zs. Psychol., Leipzig, Abt. 1, **41**, 1906, (377-381).

Oppenheim, P. Neue Beiträge zur Geologie und Palaeontologie der Balkanhalbinsel. Berlin, Zs. D. geol. Ges., **58**, 1906, (109-180, pl. 8).

Parker, G[eorge] H[oward]. 1. The reversal of ciliary movement in Metazoans. [Cambridge, Mass., Cont. Mus. Comp. Zool. Harvard Coll., No. **159**]. Amer. J. Physiol., Boston, Mass., **13**, 1905, (1-16).

Parker, G. H. 2. The movements of the swimming-plates in Ctenophores, with reference to the theories of ciliary metachronism. J. Exp. Zool., Baltimore, Md., **2**, 1905, (407-423).

Pearse, A. S. Reactions of *Tubularia crocea* (Ag.). [Cambridge, Mass., Cont. Mus. Comp. Zool., Harvard Coll., No. **178**]. Amer. Nat., Boston, Mass., **40**, 1906, (401-407).

Pedaschenko, D. D. Eine neue tropische Cœlenteratenform. [Nov. Ordo Actenae Ctenophorarum.] (Russ.) St. Petersburg, Trav. Soc. nat., **37**, 1, 1906, (175-188, Taf. i-iii); deutsches Rés., (201-211).

Pellegrin, Jacques. Commensalisme de jeunes *Caranx* et de *Rhizostomidae*. Paris, C.-R. ass. franç. avanc. sci., **34**, (Cherbourg, 1905, 2^e partie), 1906, (570-571), et 1^{re} partie, (337).

Pennetier, G. Accroissements du Muséum d'histoire naturelle de Rouen (1898-1905). Actes Muséum hist. nat., Rouen, **10**, 1906, (7-39).

Peters, Amos W. Phosphorescence in Ctenophores. J. Exp. Zool., Baltimore, Md. **2**, 1905, (103-116).

Piéron, H. La réaction aux marées par anticipation réflexe chez *Actinia equina*. Paris, C.-R. soc. biol., **61**, 1906, (658-660).

Piéron, Henri vide Bohn, G.

Potts, Edward. On the medusae of *Microhydra ryderi*, and on the known forms of Medusae inhabiting fresh water. Q. J. Microsc. Sci., London, **50**, 1906, (623-633, pls. xxxv, xxxvi).

Pratt, Edith M. The digestive organs of the *Alcyonaria* and their relation to the mesogloal cell-plexus. Q. J. Microsc. Sci., London, **49**, 1906, (327-362, pls. xx, xxii).

Quidor, A. Sur *Mesoglicola delagei* (n. g. n. sp.), parasite de *Corynactis viridis*. Paris, C.-R. Acad. sci., **143**, 1906, (613-615).

Repelin, J. Monographie de la faune saumâtre du Campanien inférieur du Sud-Est de la France (Zone du Plan d'Aups). Ann. Mus., Marseille, **10**, 1906, (1-112, 12 pls.).

Römer, F[ritz]. 1. [Jahresbericht über] Siphonophora für 1901-1904. Arch. Natg., Berlin, **66**, Bd 2, H. 3, 1900 [1906], (39-49). — Desgl. Ctenophora. T.c. (50-61).

Römer, F. 2. [Jahresbericht über] Graptolitida für 1901-1902. Arch. Natg., Berlin, **66**, Bd 2, H. 2, 1900 [1906], (62-68).

Roule, Louis. 1. Une nouvelle famille d'Anthozoaires. Bul. Muséum. Paris, **12**, 1906, (120).

[Roule, L. 2. Notice préliminaire sur les Pennatulides recueillies par le "Travailleur" et le "Talisman," dans l'Océan Atlantique, au large du Maroc. Bul. Muséum, Paris, **11**, 1905, (454-458).]

Russell, E. S. On *Trichorhiza*, a new Hydroid genus. London, Proc. Zool. Soc., **1906**, 1, (99-101, pl. v).

Scalia, S. I fossili postpliocenici di Salustro, presso Motta S. Anastasia. Catania, Atti. acc. Gioenia, **19**, 1906, Mem. 17, (12).

[Schepotieff, A. Ueber die Stellung der Graptolithen im Zoologischen System. N. Jahrb. Min., Stuttgart, **1905**, 2, (79-98).]

Schmitt, J. Monographie de l'île d'Anticosti (Golfe Saint-Laurent). Paris (A. Hermann), 1904, (vi + 367, pl.). 8vo.

Schultz, Eugen. Ueber Reductionen. II. Ueber Hungererscheinungen bei *Hydra fusca* L. Arch. EntwMech., Leipzig, **21**, 1906, (703-726, mit 1 Taf.).

Schwarz, E. H. L. South African Palaeozoic Fossils. Grahamstown, Cape Colony, Rec. Albany Mus., **1**, vi, 1906, (347-404, pls. vi-x).

Seurat, L. G. Les îles coralliennes de la Polynésie. Structure. Mode de formation. Faune et flore. Bul. Mus., Monaco, No. **65**, 1906, (16).

Shakespeare, G. A. [Mrs.] *vide* Wood, Ethel M. R.

Shearsby, A. J. Notes on the operculate Madreporaria Rugosa from Yass, New South Wales. Geol. Mag., London, N. Ser., dec. V, **3**, 1906 (547-552, pl. xxvi).

Sibly, Thomas Franklin. On the Carboniferous Limestone (Avonian) of the Mendip Area (Somerset) with special reference to the palaeontological sequence. London, Q. J. Geol. Soc., **62**, 1906, (324-378, pls. xxxi, xxxii, xxxiv).

Siemiradzki, Jos[ef] von. Die paläozoischen Gebilde Podoliens. II. Paläontologischer Theil. Wien, Beitr. Pal. Geol. OestUng., **19**, 1906, (213-286, mit 7 Taf.).

Simpson, Jas. J. The structure of *Isis hippuris*. London, J. Linn. Soc. Zool., **29**, 1906, (421-431, pl. xliii).

Slocum, A. W. A list of Devonian Fossils collected in Western New York, with notes on their stratigraphical distribution. Chicago, Ill., Pub. Field Columb. Mus. Geol. Ser., **2**, (publ. 113), 1906, (257-265, with pls.).

Smith, W. D. Preliminary geological reconnaissance of the Lobo mountains, Batangas province. Philippine J. Sci., Manila, P.I., **1**, 1906, (617-635, pl. iv).

Steche, O. Bemerkungen über pelagische Hydroidenkolonien. Zool. Anz., Leipzig, **31**, 1906, (31-32).

Stevens, N. M. *vide* Morgan, T. H.

Stobbs, John T. *vide* Hind, Wheelton.

Stschelkanowzew, J. Die Entwicklung von *Cunina proboscidea* Metschn. Mitt. zool. Stat. Neapel, Berlin, **17**, 1906, (433-486, mit 2 Taf.).

Suter, H. On *Flabellum rugulosum*, Tenison-Woods. Wellington, Trans. Proc. N. Zeal. Inst., **38**, 1906. (334).

Thomson, J. Arthur. Appendix to the report on the *Aleyonaria* collected by Professor Herdman, at Ceylon, in 1902. London, Rep. Ceylon Pearl Oyster Fish., **4**, 1905, (167-186, 1 pl. and 2 text-figs.). [Note on *Caligorgia* by Versluys, (173)].

Thomson, J. A. and Henderson, W. D. 1. The marine fauna of Zanzibar and British East Africa from collections made by Cyril Crossland, M.A., B.Sc., F.Z.S., in the years 1901-1902.—*Aleyonaria*. London, Proc. Zool. Soc., **1906**, 1, (393-443, pls. xxvi-xxxi).

Thomson, J. A., and Henderson, W. D. 2. Natural history notes from the R.I.M.S. Ship "Investigator," Capt. T. H. Fleming, R.N., commanding.—Series III., no. 15. Second preliminary report on the deep-sea *Aleyonaria* collected in the Indian Ocean. Ann. Mag. Nat. Hist., London, Ser. 7, **18**, 1906, (427-433).

Thomson, J. A. und Henderson, W. D. 3. Lebendiggebärende Arten von Aleyonaceen. Zool. Anz., Leipzig, **30**, 1906, (504).

[**Törnquist, S. L.** 1. Researches on the Graptolites of the lower zones of the Scanian and Vestrogothian *Phyllo-Tetragraptus* beds. II. Lund Univ. Årsskr., **40**, 1904, No. 2, (29, 4 pls.).]

Törnquist, S. L. 2. Sundry geological and palaeontological notes. Stockholm, Geol. För. Förh., **1906**, (497-515).

Torrey, Harry Beal. 1. Biological studies on *Corymorpha*. I. *C. palmor* and environment. J. Exp. Zool., Baltimore, Md., **1**, 1904, (395-422).

Torrey, H. B. 2. The California shore anemone, *Bunodactis xanthogrammica*. Berkeley, Univ. Calif. Pub. Zool., **3**, 1906, (41-46, 1 pl.).

Torrey, H. B. and Martin, Ann. Sexual dimorphism in *Aqlophenia*. [Contributions from the Laboratory of the Marine Biological Association of San Diego, No. 11]. Berkeley, Univ. Cal. Pub. Zool., **3**, 1906, (47-52).

Trinci, Giulio. 1. Sopra una Discomedusa del Golfo di Paria, America del Sud. Napoli, Annuario Museol. zool., N. Ser., **2**, No. 9, 1906, (1-4).

Trinci, G. 2. *Tiarella parthenopea*, nuovo genere e nuova specie della famiglia delle *Tiaridae*. Mon. zool. ital., Firenze, **17**, 1906, (208-213).

Vanhöffen, E[rnst]. 1. Siphonophoren. [In: Nordisches Plankton, Lfg 5.] Kiel u. Leipzig (Lipsius & Tischer), 1906, (xi 9-xi 39).

Vanhöffen, E. 2. Acraspedæ Gegenbaur 1856. [In: Nordisches Plankton, Lfg 5.] Kiel u. Leipzig (Lipsius & Tischer), 1906, (xi 40-xi 64).

Vaughan, Arthur. The Carboniferous Limestone Series (Avonian) of the Avon gorge. Bristol, Proc. Nat. Soc., Ser. 4, **1**, 1906, (74-168).

Vaughan, T[homas] Wayland. 1. Three new *Fungia*, with a description of a specimen of *Fungia granulosa* Klunzinger and a note on the specimen of *Fungia concinna* Verrill. Washington, D.C., Smithsonian Inst., U. S. Nation, Mus., Proc., **30**, 1906, (827-832, with pl.).

Vaughan, T. W. 2. A new species of *Canoeyathus* from California and the Brazilian Astrangid corals. Washington, D.C., Smithsonian Inst., U.S. Nation, Mus., Proc., **30**, 1906, (847-850, with pl.).

Vaughan, T. W. 3. Madreporaria. [in] Reports on the Scientific Results of the Expedition to the Eastern Tropical Pacific, in charge of Alexander Agassiz, by the U. S. Fish Commission Steamer "Albatross," from October, 1904, to March, 1905, Lieut. Commander L. M. Garrett, U.S.N., commanding. 6. Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **50**, 1906, (11 + 59-72 + 102, with 10 pls.).

Verrill, Addison E[mory]. The Bermuda islands. Part 4. Geology [concluded] and paleontology. Part 5. An account of the coral reefs. New Haven, Trans. Conn. Acad. Arts Sci., **12**, 1906, (141-300, with pl.).

Versluys, J[an]. 1. Die Gorgoniden der Siboga-Expedition. II. Die *Primnoidae*. Uitkomsten op zool., botan., ocean., geol. gebied, verzameld in Ned. Ind. 1899-1900, aan boord H.M. Siboga. Onder commando van Lt. t/z Ie kl. G. F. Tydeman, uitgegeven door Max Weber. [Résultats des explorations zool., botan., océan., géol. entreprises aux Indes Néerl. Or. 1899-1900, à bord du Siboga, sous le commandement de G. F. Tydeman, publiés par Max Weber]. Livr. 27, Monogr. **13a**, Leide (E. J. Brill), 1906, (187, av. 10 pls.).

Versluys, J. 2. *Bathyalcyon robustum* nov. gen. nov. spec. Ein neuer Alcyonarien der Siboga-Sammlung. Zool. Anz., Leipzig, **30**, 1906, (549-533).

Versluys, J. vide Thomson, J. Arthur.

W. H. V. [Review of] The Coral *Siderastrea radians* and its post-larval development; by J. E. Duerden. Science, New York, N.Y., N. Ser., **23**, 1906, (497-498).

Walcott, Charles D[oolittle]. Cambrian faunas of China. Preliminary paper No. 2. Washington, D.C., Smithsonian Inst., U. S. Nation, Mus., Proc., **30**, 1906, (563-595).

Warren, E. 1. On *Halocordyle cooperi* sp. nov. A Hydroid from the Natal coast. Ann. Natal Govt. Mus., London, **1**, 1906, (73-81, 1 pl.).

Warren, E. 2. On *Tubularia solitaria* sp. nov., a Hydroid from the Natal coast. Ann. Natal Govt. Mus., London, **1**, 1906, (83-96, pls. x, xi).

Whiteaves, J. F. 1. Preliminary list of fossils from the Silurian (Upper Silurian) rocks of the Ekwan River and Sutton Mill lakes, Keewatin, collected by D. B. Dowling in 1901, with descriptions of such species as appear to be new. Rep. Geol. Surv. Can. Ottawa, **14**, 1901, [1905], (38F-59F).

Whiteaves, J. F. 2. The fossils of the Silurian (Upper Silurian) rocks of Keewatin, Manitoba, the north-eastern shore of Lake Winnipegosis, and the lower Saskatchewan River. Geol. Surv. Can., Ottawa, **3**, 1903, (243-298, with pls.).

Wood, Ethel M. R. [Mrs. G. A. Shakespear]. 1. On Graptolites from Bolivia, collected by Dr. J. W. Evans in 1901-02. London, Q. J. Geol. Soc., **62**, 1906, (431-432).

Wood, E. M. R. 2. The Tarannon series of Tarannon. London, Q. J. Geol. Soc., **62**, 1906, (644-699).

Wood, E. M. R. r. Elles, Gertrude L.

Woodland, W. Studies in spicule formation. II.—Spicule formation in *Aleyonium digitatum*; with remarks on the histology. Q. J. Microsc. Sci., London, **49**, 1906, (283-304, pls. xvi, xvii).

Yendo, K. A revised list of *Coral-
linac*. Tokyo, J. Coll. Sci., **20**, No. 12,
1905, (46).

Yerkes, Robert M[earns]. Concerning
the behaviour of *Gonionemus*. J.
Comp. Neur. Psych., Granville, Ohio,
16, 1906, (157-163).

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0803

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Relation between contractibility and coagulation of the colloids in the Ctenophore swimming-plate; **Lillie**.

Special Functions.

Rôle of mucus in corals; **Duerden, 3**.

Functions of mesogloæal plexus, Aleyonaria; **Pratt**.

Nervous function, Aleyonaria; **Pratt**.

Environmental effects; stimuli.

Modifiability in behaviour (of sea-anemones); **Jennings**.

Biological studies on *Corymorpha*, *C. palma* and environment; **Torrey, 1**.

Reactions of *Tubularia crocea*; **Pearse**.

Sur les courbures (de *Actinoloba*) dues à la lumière; **Bohn, 1**.

Mouvements en relation avec l'assimilation pigmentaire (et variation de l'éclairement) (*Anthea*); **Bohn, 2**.

Movements of *Virgularidae* on becoming gradually exposed to air, i.e., in response to ebb and flow of tides; **Gravier, 2, 5**.

Physiology of expansion and retraction in *Actinia*; **Piéron**.

Rhéotropisme de quelques Hydroïdes monosiphonnés; **Hallez**.

Galvanotropic reactions of the Medusa *Polyorchis penicillata*; **Bancroft, 1**.

Hydra spp., comparative resistance to CO₂; behaviour of the zoochlorellae in relation to the egg in darkness; **Hadži**.

DEVELOPMENT. 0815

Growth and morphogenesis.

Metameric growth, *Porites*; **Bernard, 2**.

Über den Septennachwuchs der *Eupsamminidae*; v. **Marenzeller**.

Morphogenie der *Rugosa*; **Jakowlew**.

Histogenesis.

Spicule formation, *Aleyonium digitatum*; **Woodland**.

Reproduction.

Ueber Knospung von *Hydra fusca*; **Hertwig**.

(Colony-formation and stolonization in Hydroids; **Billard, 3**.)

Asexual reproduction, *Limnocnida taniganicae*; **Günther**.

Reproduction of *Metridium marginatum* by fragmental fission; **Hammatt**.

Asexual reproduction, *Schizocladium ramosum*; **Browne, 3**.

Reproduction, *Microhydra ryderi*; **Browne, 3**.

Regeneration.

Experimental study of light as a factor in the regeneration of Hydroids (*Eudendrium*); **Goldfarb**.

Form-regulation in *Cerianthus*; regeneration and proportion; **Child**.

Regeneration in *Rhizostoma pulmo*; **Hargitt, 3**; in *Metridium*, **Hahn**.

Hydranth-formation and polarity in *Tubularia*; **Morgan, 1**.—An attempt to analyze the phenomena of polarity in *Tubularia*; **Morgan, 2**.—Experiments on polarity in *Tubularia*; **Morgan** and **Stevens**.

Dissogony.

A new tropical Ctenophore (*Dogielia*); **Pedaschenko**.

Oogenesis.

The organization and early development of the egg of *Clava leptostyla*; **Hargitt, 1**.

Maturation and fertilization.

Maturation and fertilization of ovum, *Aleyonium digitatum*; **Hill**.

Embryology.

Experimental embryology, *Hydra* **Hadži**.

Development of *Eudendrium*; **Congdon**.

Cunina proboscidea, Entwicklung; **Stschelkanowzew**.

Medusa-buds, *Cunioctantha fowleri* sp. n.; **Browne, 2**.

Rearing *Aurelia aurita* and *Pelagia perla*; **Delap, 1**.

(Embryogénie des Hexactinides; **Faurot**.)

Actinien-Larven; **Carlgren, 1**.

Development of recent and fossil corals; **Duerden, 2**.

Early stages in Paleozoic corals; **Gordon, C. E.**

Siderastrea radians and its post-larval development (by J. E. Duerden, review of); **W.**

Viviparity.

Lebendiggebärende Arten von Aleyonaceen; **Thomson und Henderson, 2, 3**.

ETHOLOGY. 0819

Habits; behaviour.

Behaviour of *Metridium*; **Allabach**.

Behaviour of *Gonionemus*; **Morse**, also **Yerkes**.

Sur la biologie des Virgulaires; **Gravier, 2, 5.**

Les Eolidiens empruntent leurs nématocystes aux Coelentérés dont ils se nourrissent; **Cuénot.**

Living polyps, *Porites*; **Bernard, 1.**

Bruthöhle bei *Plumarella delicatissima*; **Versluys.**

Luminosity.

Notes on photogenic Coelenterata; **McIntosh.**

Phosphorescence in Ctenophores; **Peters.**

Habitat.

Pelagic animals, *Perigonimus sulfureus* as a type; **Steche.**

Instinct and Psychology.

Beobachtungen über das Leben der Hydren; **Oelzelt-Newin.**

Le rythme des marées et le phénomène de l'anticipation réflexe (chez l'*Actinia*); **Bohn et Piéron.**—La réaction aux marées par anticipation réflexe chez *Actinia equina*; **Piéron.**

Symbiosis and commensalism.

Symbiosis, *Jousscaumia* (Eulamelli-branch) with *Heterocyathus* and *Heteropsammia*; **Bourne.**

Crab, infesting Madreporarian, Andaman Is.; **Henderson.**

Zoochlorellae, Aleyonaria; **Pratt.**

Commensalisme de jeunes *Caranx* et de *Rhizostomidae*; **Pellegrin.**

Parasitism.

Parasite de *Corynactis viridis*, (mésoglaea), un Copépode, *Mesoglicola delagei* (n. g., n. sp.); **Quidor.**

VARIATION AND AETIOLOGY.

0823

Variation.

Among Scyphomedusae; **Hargitt, 2.**

(Of *Rhegmatores*; **Hargitt, 4.**)

Dimorphism in *Metridium*; **Hahn.**

Phylogeny.

The primary hexamerism in Rugose corals, as establishing the relationship of Rugosa to the other Anthozoa; **Duerden, 1, 5.**

[Relationship of the *Monograptidae* with *Rhabdopleura*, rather than with Coelenterates; **Schepotieff.**]

Evolution.

Die Stammesgeschichte der Aleyonaceen; **Kükenthal, 3, 4.**

DISTRIBUTION (GEOGRAPHY).

0827

1. Recent.

General.

Die geographische Verbreitung der Aleyonaceen; **Kükenthal, 3, 4.**

Atlantic and adjacent seas.

Ireland, Valencia harbour, planktonic Coelenterates, with monthly distribution; **Delap, 2.**

British coasts, *Muggiaea atlantica*, distribution and migrations; **Gough.**

Firth of Clyde, *Trichorhiza brunnea*, gen. n.; **Russell.**

Biscayan Hydromedusae, (*Cunoctantha* sp. n.) and Scyphomedusae; **Browne, 2.**

Atlantique, côtes de l'Espagne, Algérie, Hydroides du *Travailleur* et du *Talisman*; **Billard, 1, 2.**

Mediterranean, Brionian islands (Pola), *Aleyonium brioniense*, n. sp.; **Kükenthal, 1.**

[Atlantic Ocean (off Morocco), *Pennatulidae*, du "Travailleur" et du "Talisman"; **Roule, 2.**]

River Niger, *Limnocoidea tanganicae*; **Browne, 1.**

Western coast of Africa, Hydroids; **Billard, 2.**

West coast of Africa (Isle San Thomé, Gulf of Guinea), occurrence of corals; **Gravier, 3.**

South African coast (Cape of Good Hope), Aleyonaria, with n. spp.; **Hickson, 2.**

[South African coast, *Turbinolidae*; **Gardiner, 1.**]

Brazil, *Astrangia*, n. spp.; **Vaughan, 2.**

West Indian and Atlantic forms of *Porites*; **Bernard, 2.**

Isle of Anticosti, Gulf St. Lawrence, Coelenterates; **Schmitt.**

Indian Ocean and adjacent seas. f, m

Djibouti, un type nouveau de *Virgulaira* (*Scytaliopsis* n. g.); **Gravier, 1, 4.**

Red Sea, deep-sea and reef corals; v. **Marenzeller.**

Zanzibar and British East Africa, Aleyonaria, with n. spp., **Thomson and Henderson, 1.**

Natal coast, *Halocordyle cooperi* and *Tubularia solitaria*, spp. nn.; **Warren, 1, 2.**

Indian Ocean, Aleyonaria, **Thomson and Henderson, 2.**

Ceylon, Aleyonaria, with spp. nn.; **Thomson.**

Indo-Pacific forms of *Porites*, **Bernard, 1.**

Pacific Ocean and adjacent coasts. n

Eastern Tropical Pacific, Madreporaria with n. spp.; **Vaughan, 3.**

Malay Archipelago, *Primnoidae*, with n. spp.; **Versluys, 1.**

Malay Archipelago, *Dogielia* gen. n. *malayana* sp. n.; new Ctenophore, **Pedaschenko.**

Ceram Sea, *Bathyalcyon robustum* gen. et sp. n. (Aleyonaria); **Versluys, 2.**

Japan, Aleyonacea, with new forms; **Kükenthal, 2, 6.**

Australia and New Zealand, Madreporaria, (recent); **Dennant.**

Cuvier Islands, New Zealand, occurrence of *Flabellum rugulosum*, living; **Suter.**

Polynesia, corals met with, forming the coral islands; **Seurat.**

Medusae of the Hawaiian Islands **Mayer.**

California, *Cocnocyathus* sp. n.; **Vaughan, 2.**

Arctic and Antarctic areas. k, o

Die arktischen Medusen (ausschliesslich der Polypomedusen); **Maas, 1.**

Die Aleyonaceen der Olga-Expedition (1898). [Zoolog. Ergebnisse c. Untersuchungsfahrt nach der Bäreninsel u. Westspitzbergen, VII.]; **Kükenthal, 5.**

[Antarctie and subantarctic seas (Falklands, St. Georgia, etc.), Hydroids; **Jäderholm.**]

Antarctic Medusae, *Homoeonema* sp. n. *Phialidium* sp. n.; **Maas, 2.**

Fresh-water.

Hydra aus der Mongolei; **Daday.**

Lake Tanganyika, *Limnocnida tanganyicae*; **Günther.**

Known freshwater Medusae; **Potts.**

2. Fossil.

Quaternary.

Postpliocene, Salastro near Catania, Anthozoa; **Scalia.**

Tertiary.

Upper Miocene, Gourbesville, English Channel, Corals, noted; **Dollfus.**

Miocene, Bouches-du-Rhone and Piedmont, forms of *Porites*; **Bernard, 2.**

Miocene, Eastern Egypt, Abu Roash and Sinai, Zoantharia, with new forms; **Gregory.**

Miocene, Batangas Province, Philippines, *Cyloseris hidalgi* sp. n.; **Smith.**

Eocene and Oligocene, "Priabonenschichten" Precista (Macedonia), Corals; **Oppenheim.**

Eocene, Paris Basin, two forms of *Porites*; **Bernard, 2.**

Eocene, Corio Bay (Australia), Actinozoa; **Mulder, 1.**

Secondary.

Cretaceous (Campanien inférieur), South-East France, (Zone du Plan d'Aups), Anthozoa; **Repelin.**

Cretaceous, East Galicia, New Corals; **Felix**.

Cretaceous, Tripoli, *Cyclolites polymorpha*; **Krumbeek**.

Jurassic (Bathonian), St. Gaultier, (dep. Indre), Corals; **Koby**.

Jurassic (Tithonian and Bathonian), Sardinia, new Tabulate Corals and Hydroids; **Deninger**.

Jurassic ("lithographischen Schiefer"), a new Medusa, *Paraphyllites* n. g.; **Maas, 3**.

Trias, Kotel (Bulgaria), Anthozoa, with n. spp.; **Bakalow, 2**.

Trias, (grès Vosgien), Nancy (Epinal), Graptolites; **Noël**.

Primary.

Contribution to Indiana palæontology, (Zoantharia); **Greene**.

Die paläozoischen Gebilde Podoliens; **Siemiradzki**.

Palaeozoic, South Africa, *Zaphrentis zebra*, n. sp.; **Schwarz**.

Carboniferous, Avon gorge (Avonian), various corals; **Vaughan, A**.

Carboniferous, Mendip area, *Campophyllum* sp. n., *Carcinophyllum* sp. n.; **Sibly**.

Carboniferous, North Shropshire, Denbighshire and Flintshire, various corals, **Hind and Stobbs**.

Carboniferous, (marine), Hungary, Anthozoa; **Frech**.

Devonian, Western New York, Coelenterates; **Slocum**.

Upper Silurian, New South Wales, *Rhizophyllum* sp. n.; **Shearsby**.

Silurian, Ingleborough, Graptolites; **Hughes**.

Silurian, (Tarannon series), lists of Graptolites and comparisons with other areas: **Wood, 2**.

Middle Silurian, Norway, account of the *Heliolitidae*; **Kiær**.

Silurian, Beechy Island, Lancaster Sound, *Boreaster lowi* n. g. n. sp., Cape Chidley, Hudson Strait, *Labyrinthites chidlensis* n. g. n. sp.: **Lambe**.

Silurian, island of Anticosti (Gulf St. Lawrence), Anthozoa; **Schmitt**.

Silurian and Ordovician, Victoria Graptolites; **Hall**.

Ordovician and Silurian, British forms of *Climacograptus*; **Elles and Wood**.

Ordovician and Silurian, Bolivia, Graptolites; **Wood, 1**.

Ordovician, Western Caermarthen-shire, Corals and Graptolites; **Evans**.

Ordovician, (Zones of Scanian and Vestrogothian *Phyllo-Tetragraptus* beds), Flagabro and Mossebo, Graptolites; **Törnquist**.

Mid-Cambrian, Shantung, China, *Lophophyllum frechi*, n. sp.; **Lorenz**.

Cambrian, China, *Coscinoecyathus* n. sp. **Walcott**.

III.—SYSTEMATIC. 0831

HYDROZOA (=HYDROMEDUSAE).

Aglaophenia, sexual dimorphism, TORREY and MARTIN, Berkeley, Univ., Cal. Pub., Zool., **3**, (47-52, with figg.).

Antennularia ramosa var. n. *plumularoides*, BILLARD, Bul. Muséum, **12**, (333).

Campanularia hincksii var. n. *grandis*, BILLARD, Bul. Muséum, Paris, **12**, (330).—*C. pelagica*, Nordsee, BREEMEN, Helder, Verh. Onderz. Zee, **1**, (1-8, 1 Taf.).

Corymorpha palma, environmental effects, TORREY, J. Exp. Zool., **1**, (395-422).

Cunina proboscidea, Entwicklung STSCHEKANOWZEW, Mitt. zool. Stat. Neapel, **17**, (433-486, 2 Taf.).

Cunoctantha fowleri, Bay of Biscay, BROWNE, (177-178, pl. xiii figs. 1 and 2), London, Trans. Linn. Soc., **10**.

Eudendrium ramosum and *hargitti*, notes on morphology and development, CONGDON, Biol. Bull., **11**, (27-46).

Halocordyle cooperi, sp. n., Natal Coast, WARREN, Ann. Nat. Govt. Mus., **1**, 1906, (73, pl. ix).

Homoeonema platygonon, variation, BROWNE, (174-175), London, Trans. Linn. Soc., **10**.—*H. racovitzae* sp. n. Antarctic, MAAS, (10-11, pl. i, figs. 3, 4. pl. ii, fig. 13); Res. voy. Belgica, 1906.

Hydra; allgemein, ENTZ, Termt. Közl., **38**, (649-669, mit 13 Fig.); *H.*, Beobachtungen über das Leben, OELZELT-NEWIN, Zs. Psychol., Leipzig, Abt. 1, **41**, (377-381).—*H. fusca*, SCHULTZ, Hungererscheinungen, Arch. Entw. Mech.,

21, (703-726, mit 1 Taf.); *H. f.*, Knospung u. Geschlechtsentwicklung, HERTWIG, Biol. Centralbl., **26**, (489-508).—Auch in: Festschr. für J. Rosenthal, Tl 1, Leipzig, 1906, (11-32).

[*Hydractinia clavata* **sp. n.**, JÄDERHOLM, Wiss. Ergebn. Schwed. SüdPol.-Expedn., 1901-1903, Stockholm, **5**, viii, (5, pl. iii, figs. 6-8).]

Isonema **nom. nov.** for *Homoconema* Vauh. (4-5); *amplum*, (5-9, pl. i, figs. 1, 2, and 7, pl. ii, figs. 8-12, pl. iii, figs. 14-20); MAAS, Res. voy. Belgica, 1906.

Limnocnida tanganicae, reproduction, taxonomy, BROWNE, Ann. Mag. Nat. Hist., (Ser. 7), **17**, (305, 306).—*L. t.*, asexual reproduction; GÜNTHER, (179), London, Proc. Zool. Soc., **1906**.—*L. t.*, POTTS, Q. J. Microsc. Sci., **50**, (623, pl. xxxv, fig. 12, after Moore).

Limnocodium compared with *Microhydra*, BROWNE, Q. J. Microsc. Sci., **50**, (638).—*L. souerbyi*, medusa and hydroid, POTTS, (623, pl. xxxv, figs. 1-11), after various authors, Q. J. Microsc. Sci., **50**.

Microhydra ryderi, general structure, (636); compared with *Limnocodium*, (638); reproduction, (641); BROWNE, Q. J. Microsc. Sci., **50**, pl. xxxvii.—*M. r.*, medusa, POTTS, Q. J. Microsc. Sci., **50**, (623, pl. xxxvi).

†*Milleporella* **gen. n.** for *sardoa* **sp. n.** (or *ichnusae*?—vide fig. explan.) "Senonian," Sardinia, DENINGER, N. Jahrb. Min., **1906**, 7, (67, pl. vii, fig. 8).

Muggiaca atlantica, migrations and distribution in British coasts; GOUGH, Cons. Permanent Internat. Explor. de la mer. Publ. de Circonstance, No. **29**, (13).

Perigonimus sulfureus Chun, as a pelagic Hydroid colony, STECHE, Zool. Anz., **31**, (31-32).

Plumularia attenuata var. nov. *media*, *P. bonnerie* **nom. nov.** (pro. *P. rubra* Bonnevie, preocc.), BILLARD, Bul. Muséum, Paris, **12**, (332).

Polyorchis penicillata, galvanotropic reactions, BANCROFT, Berkeley, Univ. Cal. Pub., Physiol., **2**, (43-46), and J. Exp. Zool., Baltimore, Md., **1**, (73-94).

(*Rhegmatores tenuis*, notes on variations in, HARGITT, Biol. Bull., **9**, (368-377).)

(x-9720 i)

Schizocladium ramosum, asexual reproduction; medusae belong to *Obelia*, BROWNE, Q. J. Microsc. Sci., **50**, (645).

[*Sertularella biformis*, (28, pl. xi, figs. 1-3).—*S. cumberlandica*, (27, pl. x, figs. 8-11), **spp. n.**, Antarctic; JÄDERHOLM, Wiss. Ergebn. Schwed. SüdPol.-Expedn., 1901-1903, **5**, viii.].—*S. gayi* var. n. *elongata*, BILLARD, Bul. Muséum, Paris, **12**, (331).

Siphonophora, account of, VANHÖFFEN, Nordisches Plankton, Lfg 5, 1906, (xi 9-xi 39).

Solmaris insculpta **sp. n.** Hawaiian Is., MAYER, Washington, D.C., Bull. U. S. Fish. Com., **23**, (1140, pl. iii, figs. 8, 9).

Solmundella mediterranea, MAAS, (12-13, Taf. i, fig. 5, taf. iii, figs. 23, 24), Res. voy. Belgica, 1906.

Tiarella **gen. n.**, (*Tiaridae*) *parthenopea* **sp. n.** Golfo di Napoli, TRINCI, Mon. zool. ital., **17**, (208-213).

Trichorhiza **gen. n.** (*Pennariidae*) for *T. brunnea* **sp. n.** Firth of Clyde; hydroid, medusoid, RUSSELL, London, Proc. Zool. Soc., **1906**, (99, pl. v).

Tubularia, regeneration and polarity, MORGAN, J. Exp. Zool., **1**, (587-591), also MORGAN and STEVENS, J. Exp. Zool., **1**, (559-585).—*T. solitaria* **sp. n.** Natal coast, WARREN, Natal Govt. Mus. Ann., **1**, (83-96, pls. x, xi).—*T. crocea*, reactions, PEARSE, Cambridge, Mass., Cont. Mus. Comp. Zool., Harvard Coll., No. **178** in Amer. Nat., Boston, Mass., **40**, (401-407, with text fig.).

†STROMATOPORIDAE. (Allied to Hydrozoa.)

†*Actinostroma astroites*, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng., **19**.

†*Labeckia conferta* E. H., SIEMIRADZKI, T.c.

†*Stromatopora tornquisti* **sp. n.** Bathonian, Sardinia, DENINGER, N. Jahrb. Min., **1906**, i, (66, pl. vii, fig. 7).—*S. typica* v. ROSEN, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng., **19**.

Stromatorhiza **gen. n.** *granulosa* **sp. n.** Swiss Jura, BAKALOW, N. Jahrb. Min., **1906**, i, (13-15, 1 Taf.).

†GRAPTOLITHIDA.

Monograph of British Graptolites, pt. v, Fam. *Diplograptidae*, ELLES and WOOD, (181-216, pls xxvi and xxvii), London, Monogr. Palaeont. Soc., 1906.

Graptolites, general account, MEEK, Durham, Proc. Univ. Phil. Soc., 1, (77-82).

Monograptidae (and Graptolites generally), regarded as related to *Rhabdopleura* and not to the Coelenterates, SCHEPOTIEFF, N. Jahr. Min., 1905, ii, (79-98, 17 text-figs.).

†*Anthograptus* gen. n. for *A. nidus* sp. n. Scanian and Vestrogothian beds, TÖRNQUIST, Lund, Univ. Arsskr., 40, No. 2, (22, pl. iv, figs. 4, 5).

†*Bryograptus simplex* sp. n. Scanian and Vestrogothian beds, TÖRNQUIST, Lund, T.c. (3, pl. i, figs. 1-4).

†*Climacograptus*, monograph of British forms; ELLES and WOOD, (181-216, pls. xxvi and xxvii), London, Monogr. Palaeont. Soc., 1906.—*C. baragwanathi* sp. n. Ordovician Victoria, HALL, Rec. Geol. Surv., Victoria, 1, (277, fig. 6).—*C. mensoris* sp. n. Ordovician Victoria, HALL, T.c. (274, fig. 5).—*C.* sp. n. (?). "Grès Vosgien" (galets), NOËL, Nancy, Bul. Soc. Sci., Ser. 3, 6, (54, pl. ii, fig. 1).

†*Clonograptus subtilis* sp. n. Scanian and Vestrogothian, TÖRNQUIST, Lund, Univ. Arsskr., 40, No. 2, (20, pl. ii, figs. 20, 21).

†*Dichograptus regularis* sp. n. Scanian and Vestrogothian, TÖRNQUIST, T.c. (20, pl. ii, fig. 19).

†*Dicranograptus ramosus* var. *semispinifer* var. nov. Ordovician, Victoria, HALL, Rec. Geol. Surv., Victoria, 1, (275, fig. 4).

†*Didymograptus patulus* Hall, *D. constrictus* Hall, synonymy, TÖRNQUIST, Lund, Univ. Arsskr., 40, No. 2, (509-512).

†*Diplograptus ingens* sp. n. Ordovician, Victoria, HALL, Rec. Geol. Surv. Victoria, 1, (276, fig. 7).—*D. sinuatus*, (56, pl. i, fig. 6), "Grès Vosgien" (galets), NOËL, Nancy, Bul. Soc. sci., ser. 3, 6.

†*Isograptus gibberulus* Nich., synonymy, TÖRNQUIST, Stockholm, Geol. För. Förh., 1906, (507).

†*Monograptus jaculum* (60, pl. i, fig. 1), *mirus* (61, pl. i, fig. 7), *lobiferus* (62, pl. i, fig. 2), *clingani* (64, pl. i, fig. 4), *romerinus* (65, pl. i, fig. 3), "Grès Vosgien," (galets), NOËL, Nancy, Bul. Soc. sci., ser. 3, 6.

Rastrites linnæi . . . SIEMIRADSKI, Wien, Beitr. Pal. Geol. Oest Ung., 19.

†*Retiolites* cf. *obesus* "Grès Vosgien," (galets), NOËL, Nancy, Bul. Soc. sci., ser. 3, 6, (66, pl. ii, fig. 2).

†*Schizograptus rotans* (24, pl. iv, figs. 1-3), *ambiguus* (25, pl. iii, fig. 8), spp. n. Scanian and Vestrogothian, TÖRNQUIST, Lund, Univ. Arsskr., 40, No. 2.

†*Tetragraptus pendens*, var. *praesagus* var. n. (5, pl. i, figs. 8-10), *T. vestrogothus* sp. n. (7, pl. i, figs. 13, 14), TÖRNQUIST, T.c.

SCYPHOZOA (=SCYPHOMEDUSAE).

Acraspedae, General account, VAN-HÖFFEN, Nordisches Plankton, Lfg 5, 1906, (xi 40-xi 64).

Aurelia aurita, notes on rearing, DELAP, Fish., Ireland, Sci. Invest., 1905, v (22, pl. i).

Charybdea moseri sp. n., Hawaiian Is., MAYER, Washington, D.C., Bull. U. S. Fish. Com., 23, (1135-36, pl. i, figs. 2-2c).

†*Paraphyllites* gen. n., *distinctus* sp. n., lithographischen Schiefer, MAAS, N. Jahrb. Min., 1906, II, (90-99).

Pelagia perla, notes on rearing, DELAP, Fisheries, Ireland, Sci. Invest., 1905, v (25, pls. i and ii).

Phialidium iridescentis, sp. n. Antarctic, MAAS, (13, Taf. i, fig. 6), Res. voy. Belgica, 1906.

Rhizostoma pulmo, regeneration, HARGITT, J. Exp. Zool., Baltimore, Md., 1, (73-94).

Stomolophus ehunii, Golfo di Paria, Sudamerica, TRINCI, Napoli, Annuario Museo Zoolog., N. S., 2, 1906, (1-4).

ANTHOZOA.

ALCYONARIA.

Anthozoa [Forts.], CARLGREN (in H. G. Bronn's Klassen u. Ordnungen des Tier-Reichs, Bd 2, Abt. 2, Lfg 2. 3.), 1906, (49-112).

Anthozoa, of the Salem limestone, BEEDE, Indiana, Rep. Dept. Geol. Nat. Res., **30**, (1201-1218, with pl.).

Aleyonacea, KÜKENTHAL, *Wissensch. Ergebnisse d. D. Tiefsee-Expedition*, **13**, Lfg 1, (1-111, 12 Taf.), also, *Verh. D. Zool. Ges.*, **16**, (138-149).

Aleyonaceen der Olga-Expedition (1898). (*Zoolog. Ergebnisse e. Untersuchungs-fahrt nach der Bäreninsel u. Westspitzbergen*, vii.) KÜKENTHAL, *Wiss. Meeresunters.*, (N.F.), **8**, Abt. Helgoland, (19-30, 1 Taf.).

Acamptogorgia gracilis Ceylon, (177, figs. 12 and 13), *A. rubra* Ceylon, (178, figs. 5-8), *spp. n.*, THOMSON, London, R. Soc. Rep. Pearl Oyster, **4**.

Aleyonium brioniense sp. n. Mittelmeer, KÜKENTHAL, *Jenaische Zs. Natw.*, **42**, (61-72, 1 Taf.).—*A. digitatum*, maturation and fertilization, HILL, (193-505), *Q. J. Microsc. Sci.*, London, **49**; *A. d.*, histology, spicule formation and structure, WOODLAND, *Q. J. Microsc. Sci.*, London, **49**, (283-304, pls. xvi and xvii).—*A. gracillimum sp. n.* Japan, KÜKENTHAL, *Zool. Anz.*, **30**, (284), also in *Beiträge Naturgesch. Ostasiens*, **1906**, (34, pl. ii, fig. 13).—*A. pachyclados* Klunzinger, THOMSON and HENDERSON, (416), London, *Proc. Zool. Soc.*, **1906**.—*A. purpureum sp. n.* Cape of Good Hope, HICKSON, (215-217, pl. v, fig. 1, and pl. ix, fig. 18), Cape Town, *Marin. Invest.*, **3**.—*A. valdiviae* Agulhasbank (12, pl. iii, fig. 11, pl. viii, fig. 39), *noraræ* Kap (18, 1 pl.), *contortum* (50, pl. vii, figs. 34-36, pl. viii, figs. 37-38), *membranaceum* (52, pl. i, fig. 3, pl. ix, figs. 42-44), Francis-Bay, *reptans* Antarctic (53, pl. ii, fig. 9, pl. ix, figs. 45-49), *spp. n.*, KÜKENTHAL, *Wiss. Ergebn. D. Tiefsee-Exp.*, **13**, i.

Anthelia japonica sp. n. Japan, KÜKENTHAL, *Zool. Anz.*, **30**, (281), and in *Beiträge Naturgesch. Ostasiens*, **1906**, (13, pl. v, fig. 28).

Anthomastus elegans Agulhasbank (64, pl. ii, figs. 6 and 7, pl. xi, figs. 63-66).—*A. antarcticus sp. n.*, (62, pl. ii, fig. 8, pl. xi, figs. 57-62), KÜKENTHAL, *Wiss. Ergebn. D. Tiefsee Expd.*, **13**, i.—*A. grandiflorus* Verill, HICKSON, Cape Town, *Marin. Invest.*, **3**, (219, pl. vii, fig. 2).

Anthopitulum grandiflorum Verill, HICKSON, *T.c.*, (233-235, pl. viii, fig. 14).

Bathyalcyon gen. n., robustum sp. n. Ceram-See, VERSLUYS, *Zool. Anz.*, **30**, (549-553).

Bebryce indica sp. n. Ceylon; spicules, THOMSON, London, R. Soc. Rep. Pearl Oyster, **4**, (175, fig. 3).

†*Boreaster gen. n.* allied to *Favosites*, *lowi sp. n.* Silurian, Canada, LAMBE, "Cruise of the 'Neptune,'" **1906**, (323).

Caligorgia affinis (76-77), *joubini* (67-69), *minuta* (78), *pennacea* (66), *robusta* (72-73), *similis* (79), *tuberculata* (80-81), *weltneri* (73-74), *spp. n.* Ost. Indischen Archipel., VERSLUYS, *Rés. Explor. Siboga*, *Livr. 27*, *Monogr. 13a*, (10 pls.).—*C. versluysi* Ceylon *sp. n.* THOMSON, (172, figs. 6 and 15); compared with other *spp.*, VERSLUYS, (173-175), London, R. Soc. Rep. Pearl Oyster, **4**.

Calyptrophora mariae (107), *kerberti* (105), *spp. n.* Malayischer Archipel und Japan, VERSLUYS, *Primnoidae*, *Rés. explor. Siboga*, *Livr. 27*, *Monogr. 13a*, (10 pls.).

Ceratoisis ramosa sp. n. Cape of Good Hope, HICKSON, Cape Town, *Marin. Invest.*, **3**, (224-225, pl. vii, figs. 2 and 3, pl. viii, fig. 12),

Cespitularia coerulea May, variation, THOMSON and HENDERSON, London, *Proc. Zool. Soc.*, **1906**, (414-415).

Chironephthya indica sp. n. Ceylon, THOMSON, London, R. Soc. Rep. Pearl Oyster, **4**, (170, figs. 1 and 14),

Clavularia, specific differences (399-401), table of species, polyps and spicules (408); *garciae* Hickson and var. *inermis* nov. (401); *flava* May (non Hickson) pl. xxx, fig. 4; *gracilis* May (402); *reptans* Hickson, *strumosa* Ehrenberg, calcareous bodies (403); *margaritiferae* Thompson and Henderson, *crosslandi* (404, pl. xxx, fig. 6), *pulchra*, *zanzibarensis* (405), *mollis* Zanzibar, *parvula* Cape Verde Is. (406), *pregnans* Zanzibar (407, pl. xxx, fig. 3), *spp. n.*, THOMSON and HENDERSON, London, *Proc. Zool. Soc.*, **1906**.—*C. chuni sp. n.* Indian Ocean, KÜKENTHAL, *Wiss. Ergebn. D. Tiefsee-Exp.*, **13**, i, (16, pl. i, figs. 1, 2, pl. iv, figs. 16-21)—*C. eburnea* (14, pl. i, fig. 1), *peterseni* (16, pl. i, fig. 2), *dispersa* (18, pl. i, fig. 3) *spp. n.* Japan, KÜKENTHAL, *Beiträge Naturgesch. Ostasiens*, **1906**, also in *Zool. Anz.*, **30**, (281-282).

Coelogorgia palmosa Wright and Studer, var. (435), *repens* sp. n. Brit. East Africa (436, pl. xxxi, fig. 1), THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906.

Corallium, economic notes, etc. HICKSON, Manchester, Trans. Microsc. Soc., 1905, (29-38).

Dasystenella subgen. n. of *Stenella*, für *St. acanthina*, VERSLUYS, *Primmoidae*, Rés. explor. Siboga, Livr. 27, Monogr. 13a, (39 and 48).

Dendronephthya acaulis (40, pl. iv, fig. 24), *fligraana* (44, pl. iv, fig. 22), *maxima* (46, fig. 27), *punctata* (42, fig. 23), *querciformis* (50, fig. 26), *densa* (52) spp. n. Japan, KÜKENTHAL, Beiträge Naturgesch. Ostasiens, 1906, and in Zool. Anz., 30, (284-287).

Eugorgia gilchristi sp. n. Cape of Good Hope, HICKSON, Cape Town Marin. Invest., 3, (230-231, pl. ix, figs. 15 and 19).

Eunephthya antarctica sp. n., KÜKENTHAL, Wiss. Ergebn. D. Tiefsee Exped., 13, i, (75, pl. iii, figs. 14 and 15, pl. xii, figs. 69-78).—*E. clavata* var. n. *pellucida* (23, pl. i, fig. 2), *rosea* var. n. *umbellata* (26, pl. i, figs. 3 and 6), "Olga" Exped., KÜKENTHAL, Wiss. Meeresunters, 8.—*E. japonica* (65, pl. iii, fig. 16), *spiculosa* (67, fig. 17) spp. n. Japan, KÜKENTHAL, Beiträge Naturgesch. Ostasiens, 1906, and in Zool. Anz., 30, (287-288).

Eunicella papillosa, suggested transference to *Gorgonidae*, HICKSON, Cape Town Marin. Invest., 3, (228).

†*Favosites agaricus*, *decorum*, *fustus* spp. n., GREENE, Contribution to Indiana Palaeontology, 2, pt. 3.—*F. aspera*, *bowerbanki*, *forbesi*, *gotlandica*, *hisingeri*, SIEMIRADZKI, Wien, Beitr. Pal. Geol., OestUng., 19, (213-286).

Fusticularia herdmanni Simpson, THOMSON, London, R. Soc. Rep. Pearl Oyster, 4, (182).

Gersemia marenzelleri sp. n. Japan, KÜKENTHAL, Zool. Anz., 30, (287), also in Beiträge Naturgesch. Ostasiens, 1906, (64, pl. iii, fig. 15).

Gorgonia albicans Köll., coenenchym, HICKSON, Cape Town Marin. Invest., 3, (228-229).

†*Heliolites*, *decipiens*, *dubius*, *insterinctus*, *megastoma*, *porosa*, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng., 19, (213-286).

†*Heliolitidae*, Mid-Silurian, general account of the family and classificatory revision, KILER, Kristiania, Skr. Vid. Selsk., 1903, No. 10, (1-58).

Heterozenia elizabethae Kölliker, variation, THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906, (413).

Isis, remarks on genus, (421-425), literature, (433), SIMPSON, London, J. Linn. Soc. Zool., 29.—*I. hippuris*, general structure, (425-432, pl. xliii), id., T.c.

Juncella spiralis Cape of Good Hope sp. n., (231-233, pl. viii, figs. 6-9); *J. elongata* var. *capensis* nov. (233), HICKSON, Cape Town Marin. Invest., 3.

Kophobelemnon bathyptiloides sp. n. Atlantic Ocean, ROULE, Bul. Muséum, Paris, 11, (455).

†*Labyrinthites* gen. n. allied to *Halysites*, for *L. chidlensis* sp. n. Silurian, Canada, LAMBE, in "Cruise of the 'Neptune,'" 1906, (327).

Leptogorgia ochracea sp. n. Cape Verde Is., THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906, (431, pl. xxix, fig. 1).

Lithophyllum elegans (Kükenthal) (= *Ammonothea elegans* May), *L. viride* (Kük.) (= *A. viridis* May), *L. brassicum* (Kük.) (= *A. brassica* May) (426), *L. thyrsoides* (Kük.) (= *A. thyrsoides* Ehrenberg), var. *durum*, nov., *flavum* May (427), THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906.

Lophogorgia crista Möbius var., comparison with *lütkeni* Wright and Studer (432, pl. xxix, figs. 5-7), *lütkeni* Wright and Studer (433), THOMSON and HENDERSON, T.c.

Malacogorgiidae fam. n., defined (226), *Malacogorgia* gen. n. (227), *capensis* Cape of good Hope sp. n., (226-227, pl. vii, fig. 5, and pl. viii, figs. 10 and 11), HICKSON, Cape Town Marin. Invest., 3.

†*Michelinia favosa*, Carboniferous Hungary, FRECH, Földt. Közl., 36, (8 and 110, pl. vii, fig. 1, pl. viii, fig. 1).

†*Monotrypa sardoa* (62, pl. v, fig. 1), *pontica* (63, fig. 2), *multitabulata* (63, fig. 3), *limitata* (64, pl. vi, fig. 4), *favrei* (64, fig. 5) **spp. n.** Sardinia, DENINGER, N. Jahrb. Min., 1906, i.

†*Monticulipora fletscheri*, *papillata*, *pulehella*, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng., 19.

Muricella complanata Wright and Studer var (178); *rubra* Ceylon **sp. n.** (179, figs. 2 and 7), THOMSON, London, R. Soc. Rep. Pearl Oyster, 4.

Narella ciliaricata Studer gehört zu *Primnoella*, VERSLUYS, *Primnoidae*, Rés. explor. Siboga, Livr. 27, Monogr. 13a, (38, 49).

Nephtya zanzibarensis **sp. n.** Brit. East Africa, (421, pl. xxvii, fig. 3), var. *mollis* **nov.** fig. 5, *armata* **sp. n.**, Brit. East Africa, (422; THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906.

Nidalia procliflora (24, pl. i, figg. 6 and 7), *nicolor* (26, fig. 1); *dofleini* (27, pl. ii, fig. 8 and 9); *macrospina* (30, figg. 11 and 12); *pellucida* (27, fig. 10), **spp. n.**, Japan, KÜKENTHAL, Beiträge Naturgeschichte Ostasiens, 1906, also in Zool. Anz., 30, (232–233), and in Wiss. Ergebn. D. Tiefsee-Exp., 13, i, 31 and 35).

Nidaliinae subfam. n., KÜKENTHAL, Wiss. Ergebn. D. Tiefsee-Expedit., 13, i, (27).

Nidaliopsis **gen. n.**, (27, 37), *pygmaea* **sp. n.**, Königbecken (38, pl. ii, fig. 10, pl. x, figs. 50–56, KÜKENTHAL, Wiss. Ergebn. D. Tiefsee-Exp., 13, i.

†*Paracherates* **gen. n.**, *tornquisti* **sp. n.**, Bathonian, Sardinia, DENINGER, N. Jahrb. Min., 1906, i, (65, pl. vi, fig. 6).

Paraspongydes striata Thom. and Hend., THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906, (1), (428).

Parastenella **subgen. n.**, für *Stenella doederleini*, *spinosa* und *ramosa*, VERSLUYS, *Primnoidae*, Rés. explor. Siboga, Livr. 27, Monogr. 13a, (39, 45–47).

Plumarella abellata **sp. n.**, (*Primnoidae*), Japan, VERSLUYS, Rés. explor. Siboga, Livr. 27, Monogr. 13a, (16–18).—*P. grimaldi* Studer ist eine *Caligorgia*, VERSLUYS, *Primnoidae*, Rés. explor. Siboga, Livr. 27, Monogr. 13a, (57).

Primnoa ellisii von Koch synonym mit *Caligorgia verticillata* Pallas, VERSLUYS, T.c. (60).

Primnoidae der Siboga-Expedition, VERSLUYS, Rés. explor. zool., aux Indes Néerl. Or. 1899–1900, à bord du Siboga, Livr. 27, Monogr. 13a, (187 pp., 10 pl.).

Pteroides echinatum **sp. n.** Atlantic. ROULE, Bul. Muséum, Paris, 11, (457).—*P. brachycaulon* Kolliker, (pl. xxvi, fig. 3); *rigidum* **sp. n.**, Brit. East Africa, (438, figs. 1 and 2); *pulehellum* **sp. n.**, Brit. East Africa, (439, pl. xxvii, figs. 1 and 2), THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906.

Pterostenella **subgen. n.** für *Stenella plumatilis* (M. Edwards), VERSLUYS, *Primnoidae*, Rés. explor. Siboga, Livr. 27, Monogr. 13a, (39–42).

Sarcophyllum bollousi **sp. n.** New Zealand, BENHAM, Zool. Anz., 31, (66).

Sclerophyllum polydactylum Dana, spicules, (418, pl. xxxi, fig. 2); *querciforme* Pratt; *marenzelleri* Pratt; *hirtum* Pratt, (419); *viride* **sp. n.**, Zanzibar, (420, pl. xxix, figs. 2 and 3), THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906.

Scyrtaliopsis **gen. n.** near *Scyrtalium*, *Virgularidae*, GRAVIER, Paris, C.-R. Acad. sci., 142, (1290–1291); *S. djiboutiensis* **sp. n.**, GRAVIER, Bul. Muséum, Paris, 12, (291–293).

Simularia brassica May (416); *fungoides* Brit. East Africa **sp. n.**, (417, text-fig. 85); THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906.

Siphonogorgia dofleini (78, pl. iii, figg. 20 and 21), *splendens*, (80, fig. 18), **spp. n.** Japan, KÜKENTHAL, Beiträge Naturgesch. Ostasiens, 1906, also in Zool. Anz., 30, (288–289).—*S. intermedia* **sp. n.**, Zanzibar, THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906, (428, pl. xxx, figs. 1 and 2).

Spongyodes (= *Dendronephthya*), Kenntnis der Gattung. HARMS, Zool. Anz., 30, (539–548).—*S. cervicornis* Wright and Studer; *involuta* Kükenthal, *putteri* Kükenthal, *polyparium* (168); *microspiculata* Putter, spicules (169), var. *ceylonensis* **nov.** (170), THOMSON, London, R. Soc. Rep. Pearl Oyster, 4.—*S. hemprichii* Klunzinger var., *S. erosslandi* (423, pl. xxviii, fig. 2), *zanzibaresnis*, fig. 1, *kükenthali* (424, pl. xxxi,

fig. 5), **spp. n.**, Brit. E. Africa, THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906.

Stachyodes elarata (98-101), *dichotoma* (88-98), *horrida* (101-103), *obscura* (90-91), *orientalis* (91-92), *parva* (96-98), Ost-Indischen Archipel. **spp. n.**; *studevi* nom. nov., VERSLUYS, Rés. Explor. Siboga, Livr. 27, Monogr. 13a.

Stenella sensu strict. sub-gen. n., *Stenella* Gray, fur *St. imbricata*, *johnsoni* und *gigantea*, VERSLUYS, *Primnoidae*, Rés. explor. Siboga, Livr. 27, Monogr. 13a, (42-44).

Stephanoptilidae fam. nov. of Penatulids, type g. *Stephanoptilum*, ROULE, Bul. Muséum, Paris, 12, (120).

Stephanoptilum gen. n. *intermedium* sp. n. Atlantic Ocean, ROULE, op. cit. 11, (455).

Stereonephthya zanzibarensis sp. n., Zanzibar, THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906, (425, pl. xxxi, figs. 3 and 4).

Suberogorgia köllikeri Wright and Studer, var. *zanzibarensis* nov., THOMSON and HENDERSON, T.c., (429, pl. xxix, fig. 4).—*S. l.* Wright and Studer, var. *ceylonensis* nov. (171); *S. rubra* Ceylon sp. n. (172, fig. 4), THOMSON, London, R. Soc. Rep. Pearl Oyster, 4.

Sympodium punctatum May, (pl. xxix, fig. 9), variation; *coeruleum* Ehrenberg; *fuscum* sp. n. Zanzibar and Brit. East Africa (408, pl. xxx, fig. 5); *splendens* Zanzibar sp. n., (409, pl. xxix, fig. 8), THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906, 1.

†*Syringopora monroense* sp. n., BEEDE, Indiana, Rep. Dept. Geol. Nat. Res., 30, (1201-1218, 1 pl.).—*S. ramulosa*, Carboniferous, Hungary, FRECH, Földt. Közl., 36, (6 and 108, pl. viii, fig. 4).—*S. cf. reticulata*, VAUGHAN, London, Q. J. Geol. Soc., 62, (313, pl. xxix, fig. 1).

Telesto rupicola Müller, variation; *arborea* Wright and Studer, variation; THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906, (434).

Thouarella tydemani, *laxa* spp. n. Malayischer Archipel, VERSLUYS, Rés. expl. Siboga, Livr. 27, Monogr. 13a, (32-35).

Trichogorgia gen. n. *Dasygorgiidae*, *flexilis* sp. n. Cape of Good Hope, HICKSON, Cape Town, Marin. Invest., 3, 222-223, pl. viii, fig. 13, and pl. ix, figs. 16 and 17.

Umbellula crassiflora sp. n., Atlantic Ocean, ROULE, Bul. Museum, Paris, 11, (456).

Virgularia lorenii Kölliker (179); *elegans* Gray; *calyceina* (180, figs. 8-11), *indica* (181), **spp. n.**, Ceylon, THOMSON, London, R. Soc. Rep. Pearl Oyster, 4.—*V. mirabilis* Lamouroux, var. *pedunculata* Kölliker; *multicalyceina* sp. n. Zanzibar, THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906, (437, pl. xxvi, figs. 4 and 5).

Wrightella erythraea Gray (= *Mopsea erythraea* Klunz.), (430, pl. xxviii, fig. 10), *variabilis*. Brit. East Africa, sp. n., (431, pl. xxviii, figs. 3-9), THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906.

Xenia antarctica (19, pl. i, fig. 4, pl. v, figs. 22-24), *uniserta* (22, pl. i, fig. 5, pl. vi, figs. 25-29) **spp. n.**, KÜKENTHAL, Wiss. Ergebn. D. Tiefsee-Expedn., 13, i.—X., note on species (410); *umbellata* Savigny, variation (411); *quinqeserta* May (= *umbellata* Savig. var. ?); *membranacea* Schenk; *coerulea* Ehrenberg; *ternatana* Schenk, var. *elongata*, nov. (412); *rigida* sp. n., Brit. East Africa (413), THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906.

ZOANTHARIA.

Zoantharia, GREENE, Contribution to Indiana palaeontology, Parts 1-3, Volume 2. New Albany, Ind., 1906, (1-38, pls.).

(Hexactinida, embryogénie, rapports morphologiques avec les Octanthides, le Scyphistome des Méduses, et le Tetracorallia, FAUROT, Paris, C.-R. Acad. Sci., 141, (778, 779).)

†Studies on early stages in Paleozoic corals, GORDON, Amer. J. Sci., New Haven, Conn., 21, (109-127).

†Corals, Bathonian, St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., 38, No. 4, (61. 4 pls.).

Madreporaria, VAUGHAN, (Rep. Res. Exped. Eastern Tropical Pacific, 6);

Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **50**, (59-72, 10 pls.).

Aeropora mangarevensis, (68, pl. vi, fig. 2, pl. viii, fig. 1), *diomedea*, **sp. n.**, (69, pl. 7, fig. 1, pl. 8, figs. 2, 3). VAUGHAN, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **50**.—*A. massarensis*, *eminens*, **spp. n.**, Red Sea, names only, v. MARENZELLER, Wien, Anz. Ak. Wiss., **1906**, (85).

†*Actinacis cymatoclysta* **sp. n.**, Kreideformation Ost-Galiziens; FELIX, Berlin, Zs. D. geol. Ges., **58**, (43, pl. iii, fig. 4).

Actinia mesambryanthemum, movement; MÜLLEGER, Bl. Aquarienkunde, Magdeburg, **17**, (76-77).—†*A. bermudensis* var. *prunicolor* n. var., VERRILL, New Haven, Conn., Trans. Acad. Arts. Sci., **12**, (141-300).

Actinoloba dianthus, courbures dues à la lumière, BOHN, Paris, C.-R. soc. biol., **61**, (420-422).

Aiptasia tagetes var. *bicolor* var. n., VERRILL, New Haven, Conn., Trans. Acad. Arts. Sci., **12**, (141-300).

Amplexi - Zaphrentis **subgen. n.**; VAUGHAN, London, Q. J. Geol. Soc., **62**, (315, pl. xxix, fig. 7).

†*Amplexus borussicus*, *eurycalyx*, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng., **19**, (213-286).

†*Aphylostylus* **gen. n.**, near *Pycnostylus*, perhaps in fam. *Zaphrentidac*, for *A. gracilis* **sp. n.** Silurian, Manitoba, WHITEAVES, Ottawa, Geol. Surv., Can., Pal. Fossils, **3** (279, pl. xxiv, fig. 1).

†*Astracomorpha zlatarskii* **sp. n.** Kotel, Bulgaria, BAKALOW, Centralbl. Min., **1905**, (482).

†*Astraeopora octophylla*, (44, pl. iii, fig. 6), *hexaphylla* (45, pl. iii, fig. 7), Kreideformation Ost-Galiziens, **spp. n.**, FELIX, Berlin, Zs. D. geol. Ges., **58**.

Astrangia brasiliensis (848-849, pl. lxxvii, figs. 3-6), *rathbuni* (849-850, pl. lxxviii); **spp. n.**, Brazil, VAUGHAN, Washington, D.C., U. S. Nation. Mus. Proc., **30**.

†*Astrocoenia hexaphylloides* **sp. n.** Kreideformation Ost-Galiziens, FELIX, Berlin, Zs. D. geol. Ges., **58** (50, pl. iii, fig. 1).

Balanophyllia galapagensis **sp. n.** VAUGHAN, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **50** (67, pl. iv fig. 2).

Bathyaetis marenzelleri **sp. n.** VAUGHAN, T.c. (66, pl. iv, fig. 1).

†*Blothrophyllum cinctosum* **sp. n.** GREENE, Contribution to Indiana Palaeontology, **2** pt. 3.

Bunodactis xanthogrammica, Californian shore anemone, description and synonymy, TORREY, Berkeley, Univ. Cal. Pub. Zool., **3**, (41-46, 1 pl.).—†*B. stelloides* var. n. *catenulata* and *carneola*, VERRILL, New Haven, Conn., Trans. Acad. Arts. Sci., **12**, (141-300).

†*Calamophyllia alternicosta* **sp. n.** Bathonian, St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., **33**, No. 4, (29, pl. iv, figs. 4-7).

†*Campophyllum caninoides* **sp. n.** Mendip Area, (368, pl. xxxi, figs. 2a and 2b), *C. sp. ?* (369, fig. 3), SIBLY, London, Q. J. Geol. Soc., **62**.

†*Carcinophyllum mendipense* **sp. n.** Mendip Area, SIBLY, T.c. (369, pl. xxxi, fig. 4).

Caryophyllia capensis, (113, pl. v, figs. 4 a-d), S. Africa; *epithecata*, (114, pl. i, figs. 3 a-e); anatomy of soft parts, (125), **spp. n.**; *C. ephyala* (Alecock), variation, (117); *smithi*, soft parts, (126); GARDINER, Cape Town, Marin. Invest., **3**.—*C. plan-lamellata* **sp. n.**, DENNANT, Adelaide, S. Austral., Trans. R. Soc., **30**, (157, pl. vi, fig. 4).

Ceratotrochus johnsoni Duncan, GARDINER, Cape Town, Marin. Invest., **3**, (118, pl. v, figs. 5 a-c, and pl. ii, fig. M).—*C. weidivus* **sp. n.**, DENNANT, Adelaide, S. Austral., Trans. R. Soc., **30**, (159, pl. vi, figs. 1, 2).

Cistiophyllum curkeenense **sp. n.** Co. Dublin, VAUGHAN, London, Q. J. Geol. Soc., **62**, (320, pl. xxx, figs. 2 and 2a).—*C. sp.* (Cyathophylloid forms), SIBLY, London, Q. J. Geol. Soc., **62**, (370, pl. xxxi, figs. 5a and 5b).

†*Coenites linearis*, *intertextus*, *juniperinus*, *podolica* **sp. n.**, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng., **19**, (213-286).

Coenocyathus bowersi **sp. n.** California, VAUGHAN, Washington, D.C., U. S. Nation. Mus. Proc., **30**, (847, 77, figs. 1-3).

Corallina, classification of the genera, with enumeration and synonymy of species: YENDO, Tokyo, J. Coll. Sci., **20**, No. 12, (46).

†*Coscinocyathus elvira* **sp. n.** Cambrian of China, WALCOTT, Washington, D.C., U. S. Nation. Mus. Proc., **30**, (566-567).

Cryptocania delaunayi **sp. n.** Bathonian, St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., **33**, No. 4, (7, pl. ii, figg. 8, 9).

Cyathaxonia cynodon, septal development; DUERDEN, Ann. Mag. Nat. Hist., London, **18**, (234).—*C. rushiana*, (316, pl. xxix, figs. 3, 3a, and 3b), *contorta*, (317, figs. 4 and 4a), **spp. nn.** Co. Dublin, VAUGHAN, London, Q. J. Geol. Soc., **62**.

Cyathoceras cornu (Moseley), GARDINER, Cape Town, Marin. Invest., **3**, (121).

†*Cyathophora dollfussi* **sp. n.** Bathonian, St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., **33**, No. 4, (8, pl. iv, fig. 24).

†*Cyathophyllum angustum, articulatum, caespitosum, podolicum, verruculare*, SIEMIRADZKI, Wien, Beitr. Pal. Oest.-Ung., **19**, (213-286).—*C. (caninoid forms)*, SIBLY, London, Q. J. Geol. Soc., **62**, (367, pl. xxxi, fig. i).—*C. pannonicum* **sp. n.** Lower Carboniferous, Hungary, FRECH, Földt. Köz., **36**, (27 and 130, pl. viii, fig. 2).

Cyclolites polymorpha, Cretaceous, S.E. France, REPELIN, Marseille, Ann. Mus., **10**, (12, pl. i, figs. 8-11).—*C. p.*, Cretaceous, Tripoli, KRUMBECK, Palaeontographica, **53**, (84, pl. vii, fig. 2).

†*Cycloseris hidalgi* **sp. n.**, SMITH, Philippine J. Sci., **1**, (627, pl. iv, fig. 1).

†*Cystelasma tabulatum* **sp. n.**, BEEDE, Indiana, Rep. Dept. Geol. Nat. Res., **30**, (1201-1218, 1 pl.).—*C. rugosum* and *C. quinquesepatum*, a correction [to Cummings, E. R. and others Fauna of the Salem limestone], BEEDE, Science, **24**, (594).

Cystiphyllum decurrens **sp. n.**, GREENE, Cont. Indiana Palaeont., **2**, pt. 1.

Dasmosmia valida **sp. n.** Red Sea, (named only) v. MARENZELLER, Wien, Anz. Ak. Wiss., **1906**, (55).

Dendrophyllia atrata **sp. n.**, DENNANT, Adelaide, S. Austr., Trans. R. Soc., **30**, (163, pl. vi, fig. 5).

Densiphyllum **sp.** (Zaphrentoid sub-div.), VAUGHAN, London, Q. J. Geol. Soc., **62**, (318, pl. xxix, fig. 6).

†*Dermosmia bathonica* **sp. n.** Bathonian, St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., **33**, No. 4, (30, pl. iv, figs. 2, 3).

Desmophyllum capense **sp. n.** S. Africa, GARDINER, Cape Town, Marin. Invest., **3**, (96).—*D. galapagense* **sp. n.**, VAUGHAN, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **50**, (63, pl. i, fig. 1).

†*Dimorpharea lentiformis* (49, pl. iii, figg. 15-21), *cossmanni* (50, figg. 22-25), **spp. n.**, Bathonian, St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., **33**, No. 4.

†*Dimorphastraea delaunayi* (36, pl. iii, fig. 1), *radiata* (37, fig. 2), *irregulare* (38, figg. 3 and 4), **spp. nn.**, Bathonian, St. Gaultier, Koby, T.c.

†*Diphyphyllum robustum, colletti* **spp. n.**, GREENE, Cont. Indiana Palaeont., **2**, pt. 1.

†*Diplocoenia oolitica* (5, pl. ii, figs. 5-7), *dendroidea* (6, figs. 1-4), **spp. n.**, Bathonian, St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., **33**, No. 4.

Duncanella borealis, septal development, DUERDEN, Ann. Mag. Nat. Hist., London, **18**, (238).

Duncania capensis **sp. n.** S. Africa, GARDINER, (120, pl. i, figs. 6 a-c); soft parts, (127); Cape Town, Marin. Invest., **3**.

†*Epicystis crucifera* **subsp. n.** *formosa*, VERRILL, New Haven, Conn. Trans. Acad. Arts Sci., **12**, (141-300).

Favia, feeding experiments, mucus, DUERDEN, Q. J. Microsc. Sci., London, **49**, (602-608).—†*F. humei* **sp. n.** Miocene, Egypt; GREGORY, Geol. Mag., London, **3**, (52, pl. vi, fig. 2).

Flabellum sibogae **nom. nov.** for *Desmophyllum alabastrum* Alcock, GARDINER, Cape Town, Marin. Invest., **3**, (98).—*F. rugulosum* Tenison-Woods, note on, SUTER, Wellington, Trans. Proc. N. Zealand Inst., **38**, (334).

Fungia, feeding experiments, muens, (592-598); stomodaeal currents, (598-602); DÜRDEN, Q. J. Microsc. Sci., London, **49**.—*F. döderleini* **sp. n.**, name only, Red Sea, v. MARENZELLER, Wien, Anz. Ak. Wiss., **1906**, (85).—†*F. japonica*, Tertiary, Japan, (827-828, pl. lxvii); *samboagensis*, Philippine Is., (829-30, pls. lxxviii, lxxix, fig. i and lxxiv, fig. i); *madagascarensis*, Madagascar, recent, (831-32, pls. lxxii, lxxiii and lxxiv, fig. 3), **spp. nn.**, VAUGHAN, Washington, D.C., U. S. Nat. Mus. Proc., **30**.

Goniopora, supplementary catalogue; BERNARD, London, **1906**, (146-164).

†*Heliophyllum connatum*, *inconditum* *hamiltonensis*, *inflatum*, *minutum*, **spp. n.**; *corniculum* var. *diaphragma* var. **n.**, GREENE, Cont. Indiana Palaeont., **2**, pt. 1.—*H. superlatum*, *subangulatum*, *tripartitum*, *intersculptum*, *intertextum*, *papulosum*, *expansum*, *dianthum*, **spp. n.**, GREENE, T. c. pt. 3.

†*Heterastraea erijiei* **sp. n.** "Priabona-Schichten," Macedonia, OPPENHEIM, Zs. D. geol. Ges., **58**, (151).

Heterocyathus aequicostatus, symbiosis with *Jousseaunia* (Eulamellibranch), BOURNE, London, R. Soc. Rep. Pearl Oyster, **5**, (213).—*H. ac.*, GARDINER, (105-112, pl. iii., figs. 1-4); anatomy of soft parts, (125); Cape Town Marin. Invest., **3**.

Heteropsammia michelini, symbiosis with *Jousseaunia* (Eulamellibranch), BOURNE, London, R. Soc. Rep. Pearl Oyster, **5**, (243).

Homophyllia incrustans **sp. n.**, DENNANT, Adelaide, St. Austr., Trans. R. Soc., **30**, (16, pl. vi, fig. 3).

†*Hydnophyllia zuberi* **sp. n.**, Kreideformation, Ost-Galiziens, FELIX, Berlin, Zs. D. geol. Ges., **58**, (18, pl. iii, fig. 5).

†*Isastraea irregularis* **sp. n.**, Bathonian, St. Gaultier, Koby, Abh. Schweiz Pal. Ges., **33**, No. 4, (26, pl. ii, figg. 19, 20).—*I. grandiflora* **sp. n.**, Kotel, Bulgaria, BAKALOW, Centralbl. Min., **1905**, (482).

Kionotrochus **gen. n.** (allied to *Deltocyathus* and *Turbinolia*), *suteri* **sp. n.**, New Zealand, DENNANT, Adelaide, S. Austr., Trans. R. Soc., **30**, (154, pl. v, fig. 5).

†*Latimacandra meyeri* (32, pl. iii, fig. 6), *polymorpha* (33, figg. 7-14), *benoisti* (35, fig. 5), **spp. n.**, Bathonian, St. Gaultier, Koby, Abh. Schweiz Pal. Ges., **33**, No. 4.

†*Leptastraea barroni* **sp. n.**, Miocene, Egypt; GREGORY, Geol. Mag., London, **3**, (56, pl. vi, fig. 8).

Litharaea distans **sp. n.**, Cretaceous, East Galicia, FELIX, Zs. D. Geol. Ges., **58**, (43, fig. 3, pl. iii).

Lithostrotion cyathophylloides **sp. n.**, Co. Dublin, VAUGHAN, London, Q. J. Geol. Soc., **62**, (319, pl. xxx, figs. 1, 1a and 1b).

Lophophyllum proliferum, septal development; DÜRDEN, Ann. Mag. Nat. Hist., London, **18**, (299); *L. frechi*, **sp. n.**, Mid-Cambrian, Shantung, China, LORENZ, Berlin, Zs. D. Geol. Ges., **58**, (91, pl. 6, fig. 7).

Madracis interjecta **sp. n.**, Red Sea, (name only), v. MARENZELLER, Wien, Anz. Ak. Wiss., **1906**, (55).

Madrepora galapagensis **sp. n.**, VAUGHAN, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **50**, (63, pl. i, fig. 2, pl. ii., fig. 1).

Metridium marginatum, reproduction by fragmental fission, HAMMATT, Amer. Nat., **40**, (583-591, pl.); *M. m.* dimorphism and regeneration, HAHN, J. Exp. Zool., **2**, (225-235).

†*Michelinia indianensis* **sp. n.**, BEEDE, Indiana, Rep. Dept. Geol. Nat. Res., **30**, (1201-1218, 1 pl.).—*M. geometrica* E. H., SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng., **19**, (213-286).

†*Microsolenia contorta* **sp. n.**, Bathonian, St. Gaultier, Koby, Abh. Schweiz Pal. Ges., **33**, No. 4, (54, pl. ii, figs. 17-18).

Montipora erythraca **sp. n.** (named only), Red Sea, v. MARENZELLER, Wien, Anz. Ak. Wiss., **1906**, (85).

Montlivaultia cossmanni **sp. n.**, Bathonian, St. Gaultier, Koby, Abh. Schweiz Pal. Ges., **33**, No. 4, (21, pl. iv, figs. 21, 22).

†*Mussa (Isophyllia) dipsacea* var. *aster* var. **n.**, *M. rosula* **sp. n.**, VERRILL, New Haven, Conn., Trans. Acad. Arts Sci., **12**, (141-300).

Notophyllia recta **sp. n.**, DENNANT, Adelaide, S. Austr., Trans. R. Soc., **30**, (163, pl. v, fig. 4).

†*Orbicella mellahica* **sp. n.**, (52–53, pl. vi, figs. 3, 4); *schweinfurthi* (53, fig. 5); *defrancei* (54, fig. 6); Miocene, Egypt, GREGORY, Geol. Mag., London, **3**.—*O. benoisti* **sp. n.**, Bathonian, St. Gaultier, Koby, Abh. Schweiz Pal. Ges., **33**, No. 4, (23, pl. ii, fig. 10).

Paracyathus vittatus **sp. n.**, DENNANT, Adelaide, S. Austral., Trans. R. Soc., **30**, (156, pl. v, fig. 3).

†*Pleurocora angelisi* **sp. n.**, Kreideformation Ost-Galiziens, FELIX, Berlin, Zs. D. geol. Ges., **58**, (47, pl. iii, fig. 2).

†*Pleurosmilia benoisti* (14, pl. i, figs. 20–25); *impressa* (15, figs. 17–19), **spp. n.**, Bathonian, St. Gaultier, Koby, Abh. Schweiz Pal. Ges., **33**, No. 4.

Pocillopora, intrapolyal tentacles, DUERDEN, Ann. Mag. Nat. Hist., London, **17**, (466–474).—*P. diomedea* **sp. n.**, VAUGHAN, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **50**, (65, pl. ii, fig. 2, pl. vi, fig. 1).

†*Polymorphastraea* **gen. n.**, prov. in *Amphiastraeidae*, (16), *variabilis* **sp. n.** (17, pl. i, figs. 1–14), Bathonian, St. Gaultier, Koby, Abh. Schweiz Pal. Ges., **33**, No. 4.

Porites; Indo-Pacific forms, historical remarks (3), morphology of skeleton (12), living polyp (22), affinities and diagnosis of genus (24), distribution in space and time (25), general catalogue (25–246), analytical tables of results (248–293), BERNARD, 1905, (pls. i–xxxv).—*P.* West Indian and Atlantic forms; historical remarks (3), morphology (12), metameric growth (20), general catalogue [together with European fossil forms and forms from no recorded locality] (25–107), analytical tables of results (129–143), BERNARD, 1906, (pls. i–xvii).—*P. paschalensis* **sp. n.**, VAUGHAN, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **50**, (71, pls. ix–x).

†*Prionastraea lyonsi* **sp. n.**, Miocene, Egypt, GREGORY, Geol. Mag., London, **3**, (58, pl. vii, fig. 10).

†*Proplasmoporinae* sub. fam. n. for *Plasmoporella*, KIAER, Kristiania, Skv. Vid. Selsk., 1903, No. 10, (48).

†*Protaracinae* sub. fam. n. for *Protrochiscolithus*, *Trochiscolithus* and *Protaraea* (= *Coccoseris*), KIAER, T.c. (49).

†*Protrochiscolithus* **gen. n.** hypoth., (perhaps for *Heliolites parasitica*), KIAER, L.c.

Rhizophyllum robustum **sp. n.** (548–550, pl. xxvi, figs. 1–6 and 19); *yassense* (fig. 7); *australe* (figs. 8, 23, 24); *interpunctatum* (figs. 9–18, 20–22); exothecal processes of the genus (550–552), SHEARSBY, Geol. Mag., London, **3**.

†*Sclerosmilia bathonica* **sp. n.** Bathonian, St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., **33**, No. 4, (13, pl. i, figs. 15, 16).

Solenastraea elliptica **sp. n.** Miocene, Egypt, GREGORY, Geol. Mag. London, **3**, (54–55, pl. vii, fig. 11).

Sphenotrochus emarciatus, var. *perexigua* var. nov., DENNANT, Adelaide, S. Austral., Trans. R. Soc., **30**, (151).—*S. gilchristi* **sp. n.** S. Africa, GARDINER, Cape Town Marin. Invest., **3**, (98, Pl. i, fig. 1, a–g).

†*Stephanocoenia oolitica* **sp. n.** Bathonian, St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., **33**, No. 4, (11, pl. ii, figs. 21, 22).

†*Stylina tetramera* **sp. n.**, Miocene Egypt, GREGORY, Geol. Mag., London, **3**, (55–56, pl. vi, fig. 7).

†*Stylococenia tuberculata* **sp. n.** Miocene Egypt; GREGORY, T.c. (57, pl. vii, figs. 9, a–b).

Stylopora erythraea **sp. n.** (name only), Red Sea, v. MARENZELLER, Wien, Anz. Ak. Wiss., 1906, (85).

†*Thamnarea globosa* **sp. n.** Bathonian St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., **33**, No. 4, (55, pl. ii, figs. 15, 16).

†*Thamnastraea gaultierensis* **sp. n.** Bathonian St. Gaultier, Koby, Abh. Schweiz Pal. Ges., **33**, No. 4, (40, pl. ii, figs. 11–14).—*T. grassa, profunda* **spp. n.** Kotel Bulgaria, BAKALOW, Centralbl. Min., 1905, (482).

†*Thecoseris dollfussi* (43, pl. iv, fig. 8), *benoisti* (44, figs. 13–16), *cossmanni* (45, fig. 17), **spp. n.**, Bathonian, St. Gaultier, Koby, Abh. Schweiz Pal. Ges., **33**, No. 4.

†*Thecosmilia dclawayi* **sp. n.** Bathonian St. Gaultier, Koby, T.c., (22).

†*Trematotrochus helleyi* **sp. n.**, DENNANT, Adelaide, S. Austral., Trans. R. Soc., **30**, (152, pl. v, fig. 1).

†*Trochocyathus petterdi* **sp. n.**, DENNANT, T.c. (153, pl. v, fig. 2).—*T. rawsonii* (Pourtalès) skeleton, (100–103, pl. i, figs. 2, a, b, and pl. ii, figs. A–K); soft parts (124); *cincticulatus* (Alcock) (103, pl. ii, fig. 2); GARDINER, Cape Town, Marini. Invest., **3**.

†*Trochosmia plani alpici* Cretaceous S.E. France, REPELIN, Ann. Mus., Marseille, **10**, (13, pl. i, figs. 1–7).

Turbinaria tenuis **sp. n.** (name only), Red Sea, v. MARENZELLER, Wien, Anz. Ak. Wiss., **1906**, (85).

Zoanthella galapagoensis **sp. n.** Galapagos Isds., HEATH, Zool. Anz., **30**, (171–175).

Zoanthus shackletoni, Ceylon, HERDMAN, London, R. Soc. Rep. Pearl Oyster, **5**, (141).

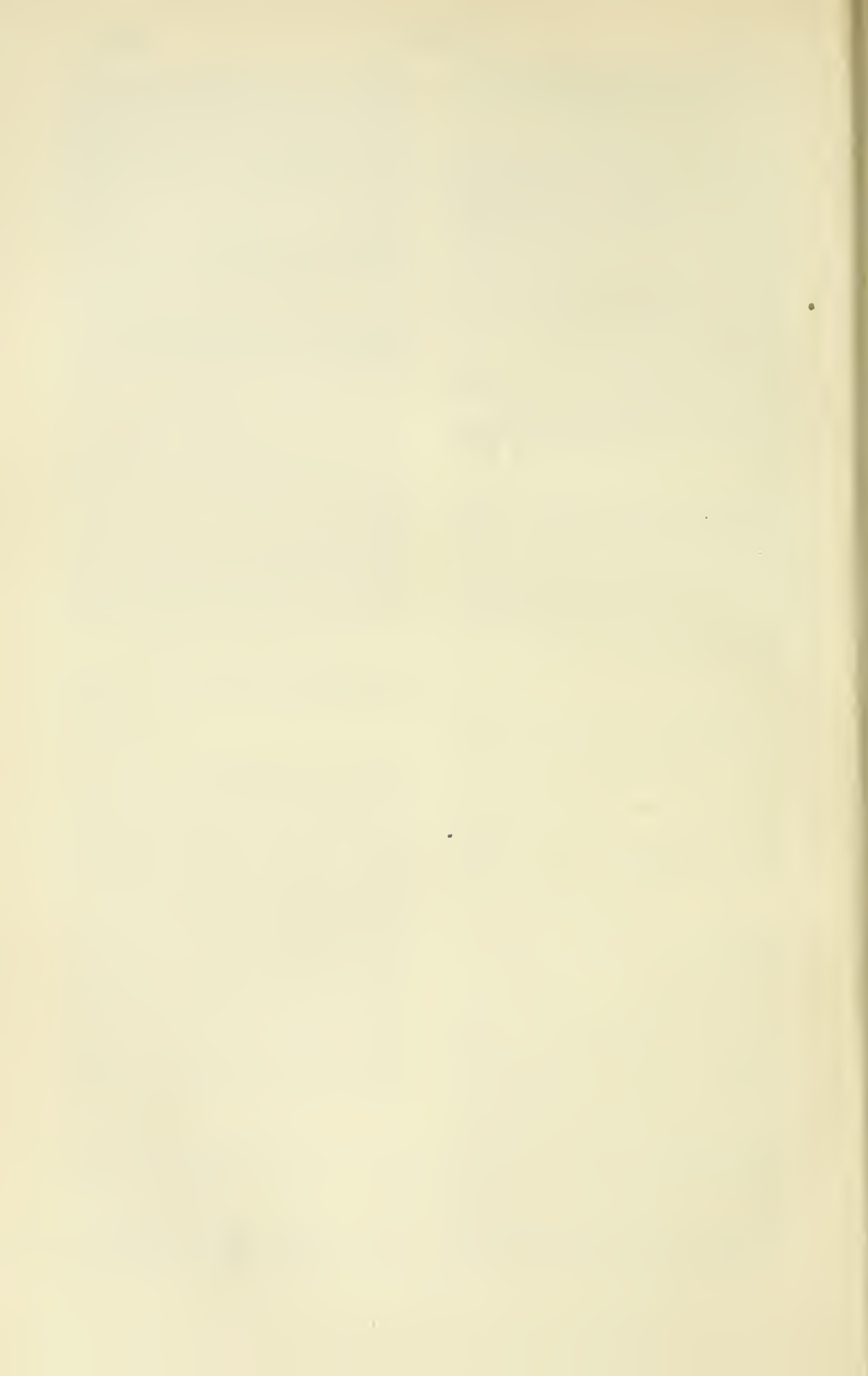
Zaphrentis phillipsi Ed. and H., sequence of septa; CARRUTHERS, Ann. Mag. Nat. Hist., London, **18**, (360, pl. ix,

figs. 1–6).—*Z. cf. phillipsi* (314, fig. 13); *Z. aff. emiskillenii* (315, pl. xxix, fig. 2), VAUGHAN, London, Q. J. Geol. Soc., **62**.—*Z. pusilla*, septal development; DUERDEN, Ann. Mag. Nat. Hist., **18**, (237).—*Z. aff. cornucopiae*, mut. C.; SIBLY (366), London, Q. J. Geol. Soc., **62**.—†*Z. cf. intermedia*, Carboniferous, Hungary, FRECH, Földt. Közl., **36**, (28, 131, pl. ix, fig. 4).—*Z. catactus* **sp. n.**, GREENE, Contributions to Indiana Palaeontology **2**, pt. 3.—*Z. scitulus* and *labyrinthicus*, **spp. n.**, GREENE, T.c. pt. 1.—†*Z. zebra* **sp. n.** Palaeozoic, South Africa, SCHWARZ, Grahamstown, Cape Colony, Rec. Albany Mus., **1**, (360, pl. vii, fig. 12).

CTENOPHORA.

Coeloplana, regarded as a highly-specialized Ctenophore; ABBOTT, Science, **23**, (524).

Dogielia **gen. n. malayana** **sp. n.** Malayischer Archipel, PEDASCHENKO, St. Peterburg, Trav. Soc. nat., **37**, (175–188, Taf. i–iii); deutsch. Rés. (201–211).



V. ECHINODERMA

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A. D. IMMS and others.

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CORRIGENDA in recent issues of Zoological Record,
Echinoderma.

Record for 1904, Vol. XLI.

P. 7.—(9) ANDERSSON, K. A. Date of publication should be 1905.

Record for 1905, Vol. XLII.

P. 9.—(8) Airaghi, Carlo. Atti Mus Milano, xlv, is an error in author's reprint for xlv.

P. 62.—*Cidaridae*. The genera mentioned do not belong to this family.

P. 69.—*Lamprochinus* n. g. of Temnopleuridae, not of Cidaridae.

P. 71.—*Orechinus* n. g. of Temnopleuridae.

P. 74.—*Pygmaeocidaris* n. g. of Arbaciidae.

I.—TITLES.

Ahlburg, Johannes. Die Trias in Südlichen Oberschlesien. Berlin, Abh. Geol. Landesanst., (N.F.), **50**, 1906, (1-164, Taf. i-vi). M 8. [27, B, iii, e].

Airaghi, Carlo. Un nuovo genere della sottofamiglia delle "Echinocorynae." Milano, Atti Soc. Ital. sc. nat., **45**, 1906, (107-110, pl. iv). [27, B, iii, b, l. 31, C].

Airaghi, C. *vide* Lambert, J. **2**.

Albert, [Honoré Charles] *Prince* de Monaco. Sur la septième campagne scientifique de la Princesse-Alice. Paris, C.-R. Acad. sci., **142**, Mar. 1906, (621-624). [27, A, ii].

Almera, Jaime. **1**. Descripción geológica de la comarca titulada "Plana de Vich." [Geological description of the district known as "Plana de Vich."] Madrid, Mem. Soc. esp. hist. nat., **3**, 1906, (423-426, 1 mapa). [27, B, ii, f].

Essentially a preprint of Chapters II-VIII of Almera (2).

Almera, J. **2**. Descripción geológica y génesis de la comarca titulada "Plana de Vich." [Geological description and genesis of the district known as "Plana de Vich."] Barcelona, Mem. R. Acc. Cs., **5**, Apr. 1906, (347-399, mapa colorada). [27, B, ii, f].

Ameghino, Florentino. Les formations sédimentaires du Crétacé supérieur et du Tertiaire de Patagonie avec un parallèle entre leurs faunes mammalogiques et celles de l'ancien continent. An. Mus. Nac., Buenos Aires, **15**, 1906, (1-568, pls. 1, 2, 3). [27, B, ii, e, f].

Androusoff, N. *vide* **Andrusov**.

[**Andrusov**, N.] Андрусовъ, Н. Материалы для геологии Закаспийской Области. Часть I-ая. . . . [Matériaux pour la géologie de la région Aralo-caspienne. I-re Partie.] St. Petersburg-Trav. Soc. nat. Suppl. = Trud. Aralo-

Casp. eksped., **7**, 1905, (vi + 188, 3 pls., 1 folding section). [27, B, iii, a].

Ariola, V. Pressione osmotica e potere fecondante nei nematospermi. Genova, Atti Soc. ligustica sc. nat. geogr., **17**, Mar. 1906, (88-96). [15, 4, 8].

Arnold, Ralph. The Tertiary and Quaternary pectens of California. U.S. Geol. Surv. Prof. Pap. No. **47**, 1906, (1-146, liii pls.). [27, B, ii, a].

Barbour, Erwin Hinckley. Nebraska Geological Survey. Volume I. Report of the State Geologist. Svo., (258 pp., 13 pls.). Lincoln, Neb., 1903.

[27, B, iv, e].

Barthels, Philipp. Die grossen Hautdrüsen der *Echinaster*-Arten. Zool. Anz., Leipzig, **29**, 8 Jan., 1906, (639-640). Translated as "The large dermal glands of the species of *Echinaster*." Ann. Mag. Nat. Hist. London, ser. 7, **17**, May, 1906, (511, 512).

[07, d, 9. 11, 5. 15, 6, d. 19, 5].

Bather, F[rancis] A[rthur]. **1**. The Echinoderm name *Calveria hystrix*. Ann. Mag. Nat. Hist., London, ser. 7, **17**, Feb., 1906, (249-252); 1906, (432). [03, l. 31, C, D].

Bather, F. A. **2**. Rectifications de nomenclature. Rev. crit. paleozool., Paris, **10**, Apr. 1906, (130, 131). [31 C, D. *Leptechinus*, *Ortmannia*].

Bather, F. A. **3**. The species of *Botryocrinus*. Ottawa Nat., **20**, 15 Aug., 1906, (93-104). [27, B, iv, a. 31, F].

Bather, F. A. **4**. Ordovician Cystidea from Burma. Pal. Ind., Calcutta, n. ser., **2**, Dec., 1906, Mem. 3, (6-40, pls. i-ii). [07, g, 5. 27, B, iv, h. 31, G]. Contained in REED, F.R.C. (q.v.)

Bather, F. A. Letter concerning "een fossiele Echinide . . ." *vide* De Meijere, J. C. H.

Bather, F. A. *vide* Hind W. et alii, *vide* Matley, C. A.

Becher, Siegfried. Über *Synapta minuta* n. sp., eine Brutpflegende Synaptide der Nordsee, und über die contractilen Rosetten der Holothurien. Zool. Anz., Leipzig, **30**, 14 Aug., 1906, (505-509). [07, b, 1, 4, 7. 15, 5, b. 19, 9. 27, A, ii. 31, B].

Beede, J[oshua] W[illiam]. Echinoderma. In: Cumings, E. R. and others. Fauna of the Salem Limestone of Indiana. Indiana, Rep. Dept. Geol. Nat. Res., Indianapolis, **30**, 1906, (1243-1270, pls. vii, xii, xvii, xix, xxvi). [15, 7, f. 23, 5. 27, B, iv, e. 31, F, H].

Beede, J. W. & Rogers, Austin F[lint]. Coal Measures faunal studies IV. Upper Coal Measures, Neosho River Section. Lawrence, Kan. Univ. Sci. Bull., **13**, Apr., 1906, (377-388). [27, B, iv, d].

Bell, F[rancis] Jeffrey. A common British starfish. Ann. Mag. Nat. Hist., London, ser. 7, **18**, Dec., 1906, (473). [31, D. *Solaster*].

Bellini, Raffaello. Le varie facies del Miocene medio nelle Colline di Torino. Roma, Boll. Soc. Geol. Ital., **24**, 1905, [i.e. Jan. 1906], (607-652). [27, B, ii, d].

Bergmann, W. [Jahresbericht über] Echinoderma für 1894. Arch. Natg., Berlin, **66**, Bd 2, 1900 [i.e. Sept., 1906], (351-380). [03, 3].

Blanckenhorn, Max. Über die Geologie der näheren Umgebung von Jerusalem. Berlin, Zs. D. geol. Ges., **57**, 1905, (Protok. 35-43). [27, B, iii, b].

Bochenek, A. Badania nad budową systemu nerwowego centralnego mięczaków, osłonic i szkarłupni (Anodonta, Ciona, Synapta). [Untersuchungen über das zentrale Nervensystem der Wirbellosen]. Kraków, Rozpr. Akad., **45 B**, 1905, (262-277, 1 pl.). [07, 9].

Boese, Emilio. 1. Sobre algunas faunas Terciarias de Mexico. [On some Mexican Tertiary faunas]. Mexico, Bol. Inst. geol., **22**, 1906, (98 pp., 12 pls.). [27, B, ii, c. 31, C].

Boese, E. 2. Excursions à Chavarillo, Santa Maria Tatetla, Veracruz et Orizaba. Internat. Geol. Congr., **10**, Guide des Excursions, Mexico, No. **2**, 1906, (11 pp., 1 folding plan). [27, B, ii, c].

Boese, E. 3. Excursion au Cerro de Muleros près Ciudad Juarez (CHIH.).

Internat. Geol. Congr., **10**, Guide des Excursions, Mexico, No. **20**, 1906, (24 pp., 3 pls., 2 folding sections). [27, B, iii, b, 1].

Bohn, Georges. Sur des mouvements de roulement influencés par la lumière. Paris, C.-R. Soc. biol., **61**, 30 Nov., 1906, (468-469). [11, 7. 19, 6].

Bosworth, T. O. The zones of the Lower Chalk. Geol. Mag., London, n. ser., dec. v., **3**, Sept., Dec., 1906, (412-418, 574-576). [23, 7. 27, B, iii, b, 1].

Boule, Marcellin, with assistance of A. Thévenin et alii. Types du Prodrome de Paléontologie Stratigraphique Universelle de D'Orbigny. Ann. Paléont., Paris, **1**, Jan., 1906, (97-). [31, H. *Pentremites*].

Boule, Marcellin, & Thévenin, Armand. Paléontologie de Madagascar. I. Fossiles de la côte orientale. Avec la collaboration de J. LAMBERT. Ann. Paléont., Paris, **1**, Jan., 1906, (43-59, pls. i, ii). [27, B, iii, b, 1. 31, C].

Bouvier, E[ugene] L. 1. Sur le commensalisme d'une Porcellane. Paris, Bul. Soc. ent., **1906**, Feb., 1906, (28, 29). [19, 8].

Bouvier, E. L. 2. La faune bathypélagique et la faune des grands fonds. Rev. gén. sci., Paris, **17**, 15 Jun., 1906, (490-500). [31, B. *Pelagothuria*].

Branco, Wilhelm. Die Anwendung der Röntgenstrahlen in der Palaeontologie. Berlin, Abb. Preuss. Akad. Wiss. Phys. Cl., **1906**, **2**, 14 Aug., 1906, (1-55, pls. i-iv). [03, 6].

Breitfuss, L. vide Derjugin, K. M.

Briot, A. 1. Sur les corps bruns des Holothuries. Réunion. biol., Marseille, **1906**, (42-43) [being] Paris, C.-R. soc. biol., **60**, 6 Jul., 1906, (1156-1157). [07, 7].

Briot, A. 2. Différenciation physiologique des diverses espèces d'*Holothuria*. Réunion. biol. Marseille, 1906, (43-44) [being] Paris, C.-R. soc. biol., **60**, 6 Jul., 1906, (1157-1158). [11, 5. 31, A, B].

Briot, A. 3. Sur les Turbellariés parasites des oursins (*Syndesmis echinorum* François). Réunion. biol. Marseille, 1906, (44-45) [being] Paris, C.-R. soc. biol., **60**, 6 Jul., 1906, (1158-1159). [03, 1. 19, 8].

Brydone, R[eginald] M[arr]. Further notes on the stratigraphy and fauna of

the Trimmingham Chalk. Geol. Mag., London, n. ser., dec. v., **3**, Jan., Feb., Mar., 1906, (13-22, 72-78, 124-131, pls. ii-v, viii, ix). [27, B, iii, b, 1].

Burckhardt, Carl. Le gisement supracrétacique de Roca (Rio Negro). Rev. Mus. La Plata, **10**, 1902, (209-224, pls. i-iv). [27, B, iii, b, 1].

Burnet, Arthur. Notes on the Upper Chalk of Lincolnshire, with Appendix: Notes on the microscopic aspect of the Upper Chalk of Lincolnshire, by W. HILL. [Contains a note on *Infulaster* by F. L. Kitchin.] Naturalist, London, **1906**, Jul., 1906 (207-214, pl. xviii). [19, 12. 27, B, iii, b, 1].

Cayeux, L[ucien]. Structure et origine probable du minéral de fer magnétique de Diélette (Manche). Paris, C.-R. Acad. sci., **142**, Mar., 1906, (716-718). [19, 12].

Cernovodeanu, Mlle. P., & **Henri**, Victor. Phagocytose chez les oursins. Paris, C.-R. Soc. biol., **60**, 25 May, 1906, (882-884). [11, 7].

Chamberlin, T[homas] C[hrowder], & **Salisbury**, R. D. Geology, vols. ii and iii. Earth history. New York, (Holt), 1906. [Notes on Invertebrate Palaeontology, by S. WELLER.] [19, 11. 23, 8.

27, B, iii, b, 1, 2, e; iv, d-k].

Charcot, J. B. *vide* Turquet, J.

Chautard, J[ean]. Matériaux pour la géologie et la minéralogie de l'Afrique occidentale française. I. Etat actuel de nos connaissances sur les formations sédimentaires de l'Afrique occidentale tropicale. Gorée (Imprimerie du Govt. général.) 1906, (1-16). 8vo.

[27, B, ii, f; iii, b, 1].

(**Checchia-Rispoli** [olim Checchia] Giuseppe. **1**. Il gen. *Arbacina* trovato vivente la prima volta in Italia. Naturalista sicil., Palermo, **17**, 1 Jun., 1905, (249-253), (49) Zool. Rec., 1905.)

Checchia-Rispoli, G. **2**. Gli Echinidi viventi e fossili della Sicilia. Parte prima: gli Echinidi viventi sulle coste della Sicilia. Palaeontographia ital., Pisa, **12**, Nov., 1906, (85-96, pl. iv).

[23, 1, 5. 27, A, ii. 31, C].

Chelussi, Italo. Note di geologia marchigiana. Milano, Atti Soc. ital. sc. nat., **44**, Feb., 1906, (269-300).

[19, 12. 27, B, ii, d].

Chubb, Gilbert C[harles]. **1**. The growth of the oocyte in *Antedon*: a morphological study in the cell-metabolism. Abstract. London, Proc. R. Soc., (ser. B), **77**, Apr., 1906, (384-387). Preliminary to Chubb, **2**.

Chubb, G. C. **2**. The growth of the oocyte in *Antedon*: a morphological study in the cell-metabolism. London, Phil. Trans. R. Soc., ser. B, **198**, Oct., 1906, (447-505, pls. 29-31).

[03, 6. 07, 12. 11, 1. 15, 3, f; 8].

Clarke, John M[ason]. **1**. Naples fauna in western New York. Part 2. Albany Univ., N.Y., Mem. St. Mus., **6**, 1904, (title, 199-454, pls. i-xx+A-F, coloured map). [27, B, iv, f. 31, F].

Clarke, J. M. **2**. Second Report of the director of the Science Division . . . for 1905. Albany Univ., N.Y., Rep. St. Mus., **50**, 1906, (100 pp., 23 pls.).

[27, B, iv, f. 31, D].

Clayden, Arthur W[illiam]. The history of Devonshire scenery. An essay in geographical evolution. Exeter (Commin), London (Chatto and Windus), 1906, (x + 202, 28 pls.). 8vo. 23 cm. 10s. 6d. [27, B, iii, b, 1; iv, e].

Cockin, George Marmaduke. On the occurrence of Limestone of the Lower Carboniferous series in the Cannock-Chase portion of the South Staffordshire Coalfield. London, Q. J. Geol. Soc., **62**, 17 Aug., 1906, (523-529).

[27, B, iv, e].

Combes, Paul *fil.* Faune et flore fossiles du Cap de la Hève. Cosmos, Paris, n. sér., **53**, 21 Oct., 1905, (463-466).

[27, B, iii, b, 1].

Conseil permanent internat. p. l'exploration de la mer. 1. Plankton. Bull. des résultats . . . Copenhague, **1905-1906**, No. **1**, Apr., 1906, Partie D, (187-195). [15, 5, a. 27, A, ii].

Conseil permanent internat. p. l'exploration de la mer. 2. Plankton. Bull. des résultats . . . Copenhague, **1905-1906**, No. **2**, Jul., 1906, Partie D, (27-59). [15, 5, a. 27, A, ii].

Conseil permanent internat. p. l'exploration de la mer. 3. Plankton. Bull. des résultats . . . Copenhague, **1905-1906**, No. **3**, Oct., 1906, partie D, (61-94). [15, 5, a. 27, A, ii].

Cuénot, L[ucien]. Rôle biologique de la coagulation du liquide coelomique des oursins. Réunion. biol. Nancy, 1906,

(55-56) [being] Paris, C.-R. Soc. biol., **61**, 3 Aug., 1906, (255-256).

[11, 7. 19, 5].

(Delage, Yves. 1. Influence de quelques facteurs sur la parthénogenèse expérimentale. Paris, C.-R. Acad. sci., **141**, 26 Dec., 1905, (1201-1204). (72) Zool. Rec., 1905.)

Delage, Y. 2. Sur les adjuvants spécifiques de la parthénogenèse expérimentale. Paris, C.-R. Acad. sci., **143**, Dec., 1906, (863-865). [15, 4, 5, 8, c].

Delap, M. & C. 1. Notes on the plankton of Valencia Harbour, 1899-1901. Fisheries, Ireland, Sci. Invest., **1905**, i, 1905, (3-19). [15, 5, a. 27, A, ii].

Delap, M. & C. 2. Notes on the plankton of Valencia Harbour, 1902-1905. Fisheries, Ireland, Sci. Invest., **1905**, vii, 1906, (1-21).

[15, 5, d. 19, 11. 27, A, ii].

De Meijere, J. C. H. Quotes letter from BATHER, [F. A.], concerning „een fossiele Echinide, welke een nieuw genus vertegenwoordigt, dat tusschen *Sternopataqus* en de Echinocorythidae instaat.“ [A fossil Echinoid representing a new genus intermediate between *Sternopataqus* and the Echinocorythidae.] Helder, Tijdschr. Ned. Dierk. Ver., ser. 2, **10**, Mar., 1906, (pp. vii, viii).

[Derjugin, K. M.] Дерюгинъ, К. М. Мурманская Биологическая Станция. 1899-1905. [Murmansche biologische Station, 1899-1905.] St. Petersburg, Trav. Soc. nat. zool., **37**, Livr. 4, 1906, (228 pp., pls. i-x and 6 unnumbered). Includes contributions concerning Echinoderma by L. Breitfuss, M. Michailovskij, V. Dogel, M. Kališevskij, V. Soldatov. [03, 5 27, A, v.].

Doederlein, Ludwig. 1. Die polymeren Echinoiden von Japan. Zool. Anz., Leipzig, **30**, 14 Aug., 1906, (515-521). [27, A, iv. 31, C].

Doederlein, L. 2. Die Echinoiden der deutschen Tiefsee - Expedition. Wiss. Ergeb. D. Tiefsee-Exped. Bd. 5. Lfg. 2. Jena, Fischer, Nov., 1906, (61-290, pls. ix-l). 34 cm. M. 82.50.

[03, 6. 07, c, 5. 15, 7. 19, 8. 23, 6, 10. 27, A, i. 31, C].

Doflein, F. 1. Fauna und Oceanographie der japanischen Küste. Verh. D. zool. Ges., Leipzig, **16**, 1906, (62-72, map). [27, A, iv].

Doflein, F. 2. Ostasienfahrt: Erlebnisse und Beobachtungen eines Naturforschers in China, Japan, und Ceylon. Leipzig (Teubner), 1906, (xiv + 512). 8vo. 24 x 17 cm.

[19, 3. 27, A, iv].

Dogél, V. Beiträge zur Kenntnis der Gregariner. I. *Cystobia chiridotae* nov. sp. Arch. Protistenkunde, Jena, **7**, Feb., 1906, (106-130, pl. iii). [19, 8].

Dogél, V. vide Derjugin, K. M.

Dogiel, V. vide Dogél, V.

Dollfus, Gustave F. Faune malacologique du miocène supérieur de Gourbesville (Manche). Etage rédonien. Paris, C.-R. ass. franç. avanc. sci., **34**, Jul., 1906, (358-371). [27, B, ii, d].

Douvillé, Henri. Limite du Crétacé et de l'Eocène dans l'Aquitaine. Paris, Bul. Soc. géol., Sér. 4, **6**, 26 Sept., 1906, (43-49). [27, B, iii, b, 1].

Douvillé, Robert. Esquisse géologique des Préalpes subbétiques (Partie centrale). Annales Hébert, Saint-Denis, **4**, 1906 (1-222, 21 pls.).

[27, B, ii, d. iii, b, 1].

Drago, Umberto. Ricerche sull' "attrazione" delle cellule sessuali. Catania, Atti Acc. Gioenia, Ser. 4, **19**, 1906, Mem. 16, (1-44). [15, 4].

Driesch, Hans. 1. Zum Problem der Bilateralität des Echinodermenkeimes. Verh. Ges. D. Natf., Leipzig, **77**, Theil 2, Aug., 1906, (205-206).

[15, 6, c, 2; 8].

Driesch, H. 2. Studien zur Entwicklungsphysiologie der Bilateralität. Arch. Entw. Mech., Leipzig, **21**, 11 Sept., 1906, (756-791, 14 text-figg.).

[15, 6, c, 2; 8].

Dubois, Raphael. De la présence de certaines substances fluorescentes (1) chez quelques animaux invertébrés. Paris, C.-R. soc. biol., **61**, 28 Dec., 1906, (675-677). [11, 7].

Dun, W. S. List of fossils occurring in the Upper Marine Series at Gerringong and Black Head. [Being] Appendix [to] "The Geology of the Gerringong District," by L. F. Harper. Sydney, N.S.W., Rec. Geol. Surv. N.S. Wales, **8**, Dec., 1905, (106-107).

[27, B, iv, c].

Evans, David Cledlyn. The Ordovician rocks of Western Caernarthen-

shire. London, Q. J. Geol. Soc., **62**, 30 Nov., 1906, (597-643, pl. xlv). [27, B, iv, h.]

Faust, Edwin Stanton. Die tierischen Gifte [being] Die Wissenschaft. Heft 9. Braunschweig (Vieweg), 1906, (xiv + 248). 8vo. Echinoderma pp. 229-230. [19, 5].

Fischel, Alfred. 1. Ueber Bastardierungsversuche bei Echinodermen. Arch. EntwMech., Leipzig, **22**, 11 Dec., 1906, (408-525). [15, 8. 23, 6].

Fischel, A. 2. Zur Entwicklungsgeschichte der Echinodermen. I. Zur Mechanik der Zellteilung. II. Versuche mit vitaler Färbung. Arch. EntwMech., Leipzig, **22**, 11 Dec., 1906, (526-511). [03, 6. 15, 4].

Fisher, Walter K[enrick]. 1. On the generic name *Stolasterias*, Sladen. Ann. Mag. Nat. Hist., London, Ser. 7, **17**, Jun., 1906, (574, 575). [31, D].

Fisher, W. K. 2. Two new starfishes from Monterey Bay, California. Zool. Anz., Leipzig, **30**, 19 Jun., 1906, (299-302). [27, A, iv. 31, D].

Fisher, W. K. 3. The starfishes of the Hawaiian Islands. Washington, D.C., Bull. U.S. Fish Comm., **23**, **1903**, 30 Jun., 1906, (987-1130, pls. i-xlix). [03, 3, 6. 15, 7. 19, 4, 6. 23, 1, 2. 27, A, iv. 31, D].

Fisher, W. K. 4. New starfishes from the Pacific coast of North America. Washington, D.C., Proc. Acad. Sci., **8**, 14 Aug., 1906, (111-139). [15, 7. 27, A, iv, v. 31, D].

(**Fourtau**, René. 1. Sur quelques "Spatangidae" de l'Éocène d'Égypte. Paris, C.-R. ass. franç. avanc. sci., **33**, 1905, (602-613, pl. i). (97), Zool. Rec. 1905.) Vide etiam Lambert, J. 5.

Fourtau, René. 2. Contribution à l'étude des Echinides fossiles de la Craie supérieure. Cairo, Bull. Inst., Egypt, Ser. 4, **6**, 26 Dec., 1906, (139-175, pls. 1-3). [23, 6, 10. 27, B, iii, b, 1. 31, C].

Fraas, Eberhard. Führer durch das Kgl. Naturalien-Kabinet zu Stuttgart. I. Die geognostische Sammlung Württembergs im Parterre-Saal zugleich ein Leitladen für die geologischen Verhältnisse und die vorweltlichen Bewohner unseres Landes. Zweite Auflage. Stuttgart, 1906, (84, 8 pls.). 8vo. 50 pf. [31, F, *Encrinurus*].

Frech, Fritz. Das marine Karbon in Ungarn. Földt. Közl., Budapest, **36**, 1906, (1-53, Taf. i-ix). [27, B, iv, e].

Fritel, P. H. Histoire naturelle de la France. 23^e partie. Géologie. Paris: Deyrolle. S. a. [i.e., 1906] (viii + 392 pp. 29 pls. in text, 1 coloured map). 19 × 12 cm. 6 fr. [27, B, i].

Garbowski, T[adeusz]. O biegunowości jaja jeżowców. (*Paracentrotus lividus*). [Sur la polarité de l'œuf des oursins.] Krakow, Rozpr. Akad., **45 B**, 1905, (278-318). [15, 8].

Gentil, Louis & **Lemoine**, Paul. Sur le Jurassique du Maroc occidental. Paris, C.-R. ass. franç. avanc. sci., **34**, 1906, (331-340). [27, B, iii, e].

Gerber, Ed. Beiträge zur Geologie der östlichen Kientaleralpen. Denkschr. schweiz. Ges. Natw., Zürich, **40**, separate copies 1905, volume 1906, (19-88, Taf. i-iii). [19, 11. 27, B, iii, a].

Godlewski, Emil, jun. Untersuchungen ueber die Bastardierung der Echiniden- und Crinoidenfamilie. Arch. EntwMech. Leipzig, **20**, 20 Feb., 1906, (579-643, Taf. xxii, xxiii). [15, 8].

Gortani, Michele. 1. Contribuzioni allo studio del Paleozoico Carnico. I. La fauna Permocarbonifera del Col Mezzodi presso Forni Avoltri. Paleontogr. Italica, Pisa, **12**, 1906, (1-84, tav. i-iii). [27, B, iv, c].

Gortani, M. 2. Sopra alcuni fossili Neocarboniferi delle Alpi Carniche. Roma, Bol. Soc. Geol. Ital., **25**, 1906, fasc. II, (23 pp). [27, B, iv, d].

Gortani, M. v. Vinassa de Regny, P.

Gough, Lewis Henry. Plankton collected at Irish Light Stations in 1904. Fisheries Ireland Sci. Invest., **1904**, No. 6, 1906, (1-55). [15, 5. 27, A, ii].

Grabau, A[madeus] W[illiam]. Guide to the geology and paleontology of the Schoharie Valley in eastern New York. Albany Univ., N.Y., Bull. St. Mus., **92**, Apr., 1906, (77-386, pls. i-xxiv, map). [27, B, iv, f, g].

Green, Upfield and **Sherborn**, C[harles] Davies. Lists of Wenlockian fossils from Porthluney, Cornwall; Ludlowian fossils from Porthalla; and Taunusian fossils from Polyne Quarry, near Looe, Cornwall. Geol. Mag., London, n. ser., dec. v, **3**, Jan., 1906, (33-35). [27, B, iv, f].

Gregory, J[ohn] W[alter]. Fossil Echinoidea from Sinai and Egypt. Geol. Mag., London, n. ser., dec. v, 3, May, Jun., 1906, (216-227, 246-254, pls. x, xi). [23, 1. 27, B, ii, a; iii, b, 1. 31, C].

Grieg, James A. Nogle bemaerkninger om *Pentagonaster granularis*, Retz. [Some notes on *Pentagonaster granularis*, Retz.] Trondhjem, Kgl. Vid. selsk. Skr., 1905, No. 6 (14 pp.). (122), Zool. Rec., 1905.)

Hamann, Otto. Echinodermen (Stachelhäuter). V Klasse. Crinoidea, Seelilien. Bronn's Klassen und Ordnungen des Tierreichs, 2, Abth. 3, Lief. 71-73, Feb., 1906, (1495-1558, Taf. v-viii). [07, f, 7, 8, 11, 12. 15, 2, f. 19, 1, 7, 9 f. 23, 3, 4, 5. 27, B, i. 31, F].

Harbort, E. Die Fauna der Schaumburg-Lippe'schen Kreidemulde. Berlin, Abh. geol. Landesanst. N.F., 45, 1905, (1-112, Taf. i-xii). [27, B, iii, b, 2].

Harmer, S[idney] F[rederick] *vide* MacBride, Ernest William.

Harper, L. F. *vide* Dunn, W. S.

Haug, Émile, & Kilian, W[ilfrid]. Notice explicative de la feuille de Gap de la carte géologique détaillée de la France. Paris (Gauthier-Villars), 1906, (20), 8vo. Also: Ann. Univ., Grenoble, 18. [27, B, iii, c, 1, 2; d].

Haupt, O. Ein Kreide ähnlicher, wahrscheinlich jungtertiärer Kalkmergel aus Kaiser-Wilhelmsland (Deutsch-Neu-Guinea). Berlin, Zs. D. geol. Ges., 57, Protok. Briefl. Mit., 1906, (565-569). [27, B, ii, a].

Hedström, Herman, & Wiman, Carl. Beskrifning till blad 5 omfattande de topografiska kartbladen Lessebo, Kalmar, Karlskrona, Ottenby (samt Utklipporna). [Descriptive text to sheet 5, including the topographical map-sheets of Lessebo, Kalmar, Karlskrona, Ottenby (with Utklipporna).] Stockholm, Sv. Geol. Unders. (Ser. A 1, a), 1906, (124 pp., 9 pls.). [19, 12. 27, B, iv, h].

Henri, Victor. Étude du liquide periviscéral des oursins. Éléments figurés. Phénomène de la coagulation et son rôle biologique. Paris, C.-R. soc. biol., 60, 25 May, 1906, (880-882). [07, c, 7. 11, 7].

Henri, V. *vide* Cernovodeanu, P.

Henri, V., & Kayalof, Mlle. Étude des toxines contenues dans les pédi-cellaires chez les oursins. Paris, C.-R. soc. biol., 60, 25 May, 1906, (884-886). [07, c, 5. 11, 7. 19, 5, c].

Herbst, Curt [Alfred]. 1. Vererbungsstudien. I-III. I. Ein Plan zu rationellen Studien über Vererbungsercheinungen. II. Über den Einfluss der Temperatur auf die Ausbildung der Seeigel-bastarde. III. Ist die „Schädigung“ eines der beiden Sexualprodukte von Einfluss auf das Hervortreten der väterlichen oder mütterlichen Charaktere? Arch. EntwMech., Leipzig, 21, 5 Jun., 1906, (173-305). [15, 8].

Herbst, C. [A.] 2. Vererbungsstudien. IV. Das Beherrschen des Hervortretens der mütterlichen Charaktere (Kombination von Parthogenese und Befruchtung). Arch. EntwMech., Leipzig, 22, 11 Dec., 1906, (473-497, Taf. xiv). [15, 8].

Herdman, W[illiam] A[bbott]. 1. Port Erin Biological Station. Guide to the Aquarium: being a short account of some of the common marine animals of the neighbourhood. Second Edition. Liverpool Marine Biology Committee, 1906, (78). 22 × 14 cm. Price, 3d. Reprinted in: Liverpool Proc. Trans. Biol. Soc., 20, Oct., 1906, (67-144). [03, 2].

Herdman, W. A. 2. General Summary and Recommendations. Rep. Ceylon Pearl Oyster Fish., Part V, 1906, (109-136, 1 pl.), London, Roy. Soc. [19, 4, 11].

Herdman, W. A. 3. Discussion of faunistic results. Rep. Ceylon Pearl Oyster Fish., Part V, Supplementary Report 41, 1906, (433-452, pl. i, ii), London, Roy. Soc. [19, 4, 11. 27, A, 3. 31, F].

(Hérouard, E[dgard]. 1. Théorie de la *Pentastomaea*. Paris, Bul. soc. zool., 29, 1904, (70-81, text-fig.). (121), Zool. Rec., 1904.)

Hérouard, E. 2. Holothuries. Résultats du voyage du S.Y. *Belgica*. . . . Zoologie. Anvers: Commission de la *Belgica*, 15 Jan., 1906, (16, 2 pls.). 34 × 27 cm. 5 fr. [15, 5, 7, b. 27, A, 6. 31, B].

Hérouard, E. 3. Sur *Pelagothuria bouvieri* (Holothurie pelagique nouvelle) recueillie pendant la Campagne du yacht

"Princess Alice" en 1905. Bull. Mus., Monaco, No. 60, 25 Jan., 1906, (6 pp.). [07, b, 1. 27, A, i; ii. 31, B].

Hérouard, E. 4. Sur un nouveau copépode parasite d'*Amphiura squamata* [sic]. Paris, C.-R. Acad. sci., 142, Jun., 1906, (1287-1289). [19, 8].

Hill, W. vide Barnet, Arthur.

Hind, Wheelton, et alii. Life-zones in the British Carboniferous rocks. London, Rep. Brit. Ass., 1905, 1906, (171-174). Contains note on *Ascoerinus* by F. A. Bather. [27, B, iv, e].

Hogne, M. J. v. Tennent, David Hill.

Holland, T[homas] H[enry]. General report of the geological survey of India for the year 1905. Rec. Geol. Surv. India, 33, March, 1906, (65-116). [27, B, iv, h. 31, F].

Hovey, Edmund Ous vide Whitfield, Robert Parr.

Jacob, Charles, & Tobler, Auguste. Étude stratigraphique et paléontologique du Gault de la Vallée de la Engelberger Aa. (Alpes calcaires suisses, environs du Lac des Quatre Cantons). Genève, Abh. Schweiz. Pal. Ges., 33, 1906 [vol. issued 1907], (26 pp., 2 pls.). [*Ech.* determined by L. Savin].

[27, B, iii, b, 1].

Johnstone, James. Trawling observations. Liverpool, Proc. Trans. Biol. Soc., 20, Oct., 1906, (232-251).

[19, 11. 27, A, ii].

Jukes-Browne, A[lfred] J[ohn]. The zones of the Lower Chalk. Geol. Mag., London, (n. ser.), dec. v, 3, Nov., 1906, (507-511). Reply to Bosworth.

[27, B, iii, b, 1].

Jukes-Browne, A. J. vide Woodward, H. B. and Ussher, W. A. E.

Kališevskij, M. vide Derjugin, K. M.

Kayalof, Mlle. vide Henri, Victor.

(Kellogg, Vernon L[yman]. Restorative regeneration in nature of the starfish *Linckia diplux* (Müller and Troschel). J. Exp. Zool., Baltimore, Md., 1, 1904, (353-356, 6 text-figg.). (139), Zool. Rec., 1904.)

Kemna, Adolph. L'Holothurie pélagique "Pelagothuria." Bruxelles, Ann. Soc. Malac., 41, 1906, (87-92).

[19, 4; 6. 23, 10].

Kiernik, E. Przyczynek do histologii kleszczy jeżowców w szczególności mięśni. [Contribution à l'étude de l'histologie des pedicellaires des oursins

et surtout de leurs museles]. Kraków, Rozpr. Akad., 45 B, 1905, (201-221). [07, c, 9, 10].

Kilian, Wilfrid vide Haug, Émile.

King, Helen Dean. The effects of compression on the maturation and early development of the eggs of *Asterias forbesii*. Arch. EntwMech., Leipzig, 21, 24 Apr., 1906, (94-110, pls. i, ii).

[15, 8].

Kitchin, F[inlay] I[orimer] vide Barnet, Arthur.

(Koehler, René. 1. Ophiures nouvelles ou peu connues. Paris, Mém. soc. zool., 17, 1904, [1905], (54-119, 98 text-figg.). (144), Zool. Rec., 1901.)

Koehler, R. 2. Sur les Échinodermes recueillis par l'expédition antarctique française du Dr. Chareot. Paris, C.-R. Acad. sci., 142, Jan., 1906, (113-115). [Abstract of Koehler 4. 27, A, i, vi.].

[Koehler, R. 3.] Échinides, Stellérides et Ophiures recueillis par MM. Bonnier et Perez dans la Mer Rouge (Côtes d'Arabie) en 1903. Bul. Muséum, Paris, 1905, 1906, (458-463).]

[27, A, iii. 31, C, D, E].

[Koehler, R. 4.] Note préliminaire sur les Échinodermes recueillis par l'expédition, antarctique française du Dr. Chareot (Échinides, Astéries et Ophiures). Bul. Muséum, Paris, 1905, 1906, (464-470).] Prelim. to Koehler, 5. [19, 9. 23, 8. 27, A, vi. 31, D].

Koehler, R. 5. Échinodermes (Stellérides, Ophiures et Échinides). [In] Expédition antarctique française (1903-1905) . . . Sciences naturelles: Documents scientifiques. Paris: Ministère de l'instruction, Dec., 1906, (42, 4 pls.). 4to. 28 x 23 cm. 12 fr.

[15, 7, d. 19, 9. 23, 8.

27, A, vi. 31, C, D, E].

Koehler, René, & Vaney, Clement. 1. Description d'une nouvelle larve d'Astérie appartenant très vraisemblablement à une forme abyssale (*Stellosphaera mirabilis*). Bul. Mus. Monaco, No. 64, 21 Feb., 1906, (12 pp.).

[07, d, 2. 15, 5, d. 27, A, ii. 31, D].

Koehler, R. & Vaney, C. 2. *Stellosphaera mirabilis*, nouvelle larve d'Astérie appartenant très vraisemblablement à une forme abyssale. Paris, C.-R. Acad. Sci., 142, Mar., 1906, (520-522). Abstract of Koehler & Vaney, 1.

Koehler, R. & Vaney, C. 3. Mission des pêcheries de la côte occidentale d'Afrique. II. Échinodermes. Bordeaux, Actes soc. linn., **60**, Jun., 1906, (58-66, pls. iv-vi). [27, A, ii. 31, B, D].

Koken, Ernst. Geologische Beiträge aus Südtirol. N. Jahrb. Min., Stuttgart, **1906**, ii, 1906, (1-19, Taf. i-iii).

[27, B, iii, e].

Krumbeck, Lothar. Beiträge zur Geologie und Palaeontologie von Tripolis. Palaeontographica, Stuttgart, **53**, Oct., 1906, (51-136, Taf. vii-ix).

[27, B, iii, b, l. 31, C].

Kupelwieser, Hans. Versuche über Entwickelungserregung und Membranbildung bei Seeigeleiern durch Molluskensperma. (Vorläufige Mitteilung.) Biol. Centralbl., Berlin, **26**, 1 Oct., 1906, (744-748).

[15, 8].

[**Lamanskij, V. V.**] Ламанскій, В. В. Древнѣйшіе слои спаяурискихъ отложений Россіи. [Die ältesten silurischen Schichten Russlands (Etage B). deutsch. rés.] St. Petersburg, Mém. Com. géolog., n. sér., **20**, 1905, (204 pp., 2 pls.).

[27, B, iv, h].

Lamansky, W[ladimir], *vide* Lamanskij, V. V.

Lambert, J[ules]. 1. Étude sur les Échinides de la Molasse de Vence. Nice, Ann. Soc. let. sci., **20**, 1906, (1-64, pls. i-x).

[03, 6. 07, c, 5. 27, B, ii, d. 31, C].

Lambert, J. 2. Echinidi miocenici della Sardegna, del C. Airaghi. Rev. Paléozool., Paris, **10**, April, 1906, (127).

[27, B, ii, d. 31, C].

Lambert, J. 3. Le Callovien de Baume-les-Dames, sa faune, par P. Petitclerc. Rév. paléozool., Paris, **10**, Jul., 1906, (180).

[31, C. *Echinobrissus*].

Lambert, J. 4. Recherches sur l'identité de l'*Hemipygus tubereulosus* (Cotteau) et de l'*Hemicidaris evenularis* (Lamarck), par le Dr. Séguin. Rev. paléozool., Paris, **10**, Jul., 1906, (180, 181).

[07, c, 2].

Lambert, J. 5. Sur quelques Spatangidae de l'Eocène d'Égypte, par R. Fourtau. Rev. paléozool., Paris, **10**, Jul., 1906, (184-185).

[31, C. *Koilospatangus*].

Lambert, J. 6. Le Toarcien des environs de Mâcon, par M. Lissajous. Rev. paléozool., Paris, **10**, Oct., 1906, (229).

[31, C. *Cidaris*].

Lambert, J. 7. Rectifications de nomenclature. Rev. paléozool., Paris, **10**, Oct., 1906, (246).

[31, C. *Tornquistellus*].

Lambert, J. 8. Description des Échinides fossiles de la Province de Barcelone. 2me et 3me parties. Echinides des Terrains Miocène et Pliocène. Appendice: Genre *Hemiheliopsis*. Paris, Mém. Soc. Géol., Paleont., **14**, 1906, [i.e. 1907] Mém. 24, (59-128, pls. v-ix [vi-x of vol.], avec explication).

[23, 10. 27, B, ii, c, d. 31 C].

Lambert, J. *vide* Boule, M., Meunier, S., and Savin, L. H.

Lambert, J[ules] & Savin, L[ouis] H. Note sur un Échinide nouveau du Bathonien de Saint-Cézaire (A.-M.). Nice, Ann. Soc. let. sci., **20**, 1906, (67-68, pl. xi).

[27, B, iii, c, 3. 31, C].

Lehmann, Otto. Führer durch den Raum des Altonaer Museums auf der 3. Deutschen Kunstgewerbe-Ausstellung Dresden, 1906. Dresden (Baensch), 1906, (50). 8vo. 19 × 13 cm. [07, a, 2].

Lemoine, Paul. Études géologiques dans le Nord de Madagascar. Contributions à l'histoire géologique de l'Océan Indien. Paris, Hermann, 1906, (iv + 520, 4 pls., with explanation to pl. i, 1 cold. folding geol. map). 8vo. 25 × 17 cm.

[27, B, i].

Lemoine, P. *vide* Gentil, Louis.

Leonhard, Otto *vide* Schumann, H.

Leriche, Maurice. Sur l'extension des grès à *Nummulites laevigatus* dans le nord de la France et sur les relations des bassins parisien et belge à l'époque lutétienne. Paris, C.-R., ass. franç. avanc. sci., **34**, 1906, (394-402).

[27, B, ii, f. 31, C].

Lissajous, M. Toarcien des environs de Mâcon. Mâcon (Protat), 1906, (56, 6 pls.). 8vo. 26 × 16 cm. [Probably Bull. Soc. Nat. Hist. Macon].

[27, B, iii, d. See Lambert, 6].

Lo Bianco, S. Azione della pioggia di cenere, caduta durante l'eruzione del Vesuvio dell' Aprile 1906, sugli animali marini. Mitt. zool. Stat. Neapel, Berlin, **18**, 29 Dec., 1906, (73-104).

[19, 3, 7, 12].

(Loeb, Jacques. 1. Further experiments on heterogeneous hybridization in Echinoderms. [Transl. by John Bruce MacCallum]. Berkeley, Univ. Cal. Pub.,

Physiol., **2**, 1904, (5-30, 2 text-figg.). (159), Zool. Rec., 1904.)

Loeb, J. 2. The toxicity of atmospheric oxygen for the eggs of the sea-urchin (*Strongylocentrotus purpuratus*) after the process of membrane formation. Berkeley, Univ. Cal. Pub. Physiol., **3**, 24 Mar., 1906, (33-37). [15, 8].

Loeb, J. 3. On the necessity of the presence of free oxygen in the hypertonic sea-water for the production of artificial parthenogenesis. Berkeley, Univ. Cal. Pub. Physiol., **3**, 24 Mar., 1906, (39-47). [15, 8].

Loeb, J. 4. On the counteraction of the toxic effect of hypertonic solutions upon the fertilized and unfertilized egg of the sea-urchin by lack of oxygen. Berkeley, Univ. Cal. Pub. Physiol., **3**, 5 Apr., 1906, (49-56). [15, 8].

Loeb, J. 5. Ueber die Hemmung der toxischen Wirkung hypertonischer Lösungen auf das Seeigellei durch Sauerstoffmangel und Cyankalium. Arch. Ges. Physiol., Bonn, **113**, 1906, (487-511). [15, 8].

Loeb, J. 6. Versuche ueber den chemischen Charakter des Befruchtungsvorganges. Biochem. Zs., Berlin, **1**, 1906? (183-206). [15, 8].

Loeb, J. 7. Weitere Beobachtungen ueber den Einfluss der Befruchtung und der Zahl der Zellkerne auf die Säurebildung im Ei. Biochem. Zs., Berlin, **2**, 1906, (34-42). [15, 8].

Loeb, J. 8. Ueber die Ursachen der Giftigkeit einer reinen Chlornatriumlösung und ihrer Entgiftung durch K und Ca. Biochem. Zs., Berlin, **2**, 1906, (81-110). [15, 8].

Lojacono, Michele. Su di Alcuni fossili miocenici dei dintorni di Tropea (Calabria). Acireale, Rend. Mem. R. Acc. Zelanti, Ser. 3, **1**, 1901-1902, 1903, No. 9, (1-20). [27, B, ii, d].

Loriol, [Perceval] de. Rectification de nomenclature. Rev. paléozool., Paris, **10**, Jan., 1906, (77-78).

[IV C, *Ortmannia*].

Lyon, E[lias] P[otter]. 1. Some results of centrifugalizing the eggs of *Arbacia*. Amer. J. Physiol., Boston, Mass., **15**, Feb., 1906, (xxi-xxii = Proc. Amer. Physiol. Soc.). [15, 8].

Lyon, E. P. 2. Note on the geotropism of *Arbacia* larvae. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **12**, Dec., 1906, (21-22). [11, 7. 15, 5, c].

MacBride, E[rmest] W[illiam]. 1. Report on the work done during the occupation of the British Association Table at Plymouth, June, 1905. London, Rep. Brit. Ass., **1905**, 1906, (183-185). [07, e, 5. 11, 3. 15, 4, 5 e. 19, 4].

MacBride, E. W. 2. Echinodermata. Chapters xvi-xxi. In "The Cambridge Natural History," edited by S. F. HARMER and A. E. SHIPLEY. London, (Macmillan), **1**, 28 Sept., 1906, (425-623). 8vo. 23 x 15 cm. 17s.

[03, 2. 07, b-f, I. 15, 2, a. 19, 1. 23, 9, 10. 31, A, C, D, E, F].

Macnair, Peter. The Geology of the Ronken Glen and its neighbourhood. Glasgow, Trans. Geol. Soc., **12**, 1906, [? June, 1907], (362-397, pl. x).

[27, B, iv, c].

Maire, V. Note sur quelques espèces fossiles nouvelles pour la Franche-Comté septentrionale. Gray, Bull. Soc. grayl. émül., **1906**, 1906, (9-12).

[27, B, iii, c, 3].

Manger, W. Echinoderms. London, Proc. S. Lond. Ent. Nat. Hist. Soc., **1905-6**, 1906, (10-13). [19, 1].

Marcus, Harry. Ueber die Wirkung der Temperatur auf die Furchung bei Seeigelleiern. Arch. Entw.Mech., Leipzig, **22**, 1906, (445-460). [11, 7. 15, 8].

Mathews, A[lbert] P[rescott]. 1. A note on the susceptibility of segmenting *Arbacia* and *Asterias* eggs to Cyanides. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **11**, Aug., 1906, (137-140). [15, 8].

Mathews, A. P. 2. A note on the structure of the living protoplasm of Echinoderm eggs. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **11**, Aug., 1906, (141-145). [07, e, d, 12].

Matley, Charles Alfred. The Carboniferous rocks at Rush (County Dublin). With an account of the faunal succession and correlation by A. Vaughan. [Crinoids determined by F. A. Bather]. London, Q. J. Geol. Soc., **62**, May, 1906, (275-323, pls. xxix-xxx). [27, B, iv, c].

Meunier, Stanislas. 1. *Pentaceros* nouveau. Naturaliste, Paris, Ser. 2, **20**, 15 May, 1906, (117-118).

[27, B, iii, b, I. 31, D].

Meunier, S. 2. Observation sur la géologie du Sénégal. Naturaliste, Paris, Ser. 2, **20**, 15 Oct., 1 & 15 Dec., 1906, (233-234, 269-271; 281-282).

[27, B, ii, f. 31 C].

Description of *Plagiopygus daradensis* by J. Lambert, essentially a repetition of Meunier, 212, Zool. Rec., 1905.

Meyer, Rudolf. Untersuchungen über den feineren Bau des Nervensystems der Asteriden (*Asterias rubens*). Zs. wiss. Zool., Leipzig, **81**, 27 Feb.; 1906, (96-144, pls. ix, x). [03, 6. 07, d, 9, 10].

Michailovskij, M. v. Derjugin, K. M.

Mitsukuri, Kakichi. Yumenanako [the dream holothurian]. *Enypniastes eximia* Théel, a deep sea holothuria. Dobuts. Z., Tokyo, **18**, Jan., 1906, (pl. i, with page explanation).

[27, A, iv. IV, B].

Monaco, vide Albert, [Honoré Charles].

Nelli, Bindo. Il miocene del Monte Titano nella Repubblica di San Marino. Roma, Rend. Acc. Lincei, **15**, 2 Dec., 1906, (741-744).

[27, B, ii, d].

Newton, E[dwin] T[ulley]. Notes on fossils from the Falkland Islands brought home by the Scottish National Antarctic Expedition in 1904. Edinburgh, Proc. R. Physic. Soc., **16**, Sept., 1906, No. 6, (248-257, pl. x), 1s.

[27, B, iv, f].

Nichols, Henry Windsor. New forms of concretions. Chicago, Ill., Pub. Field Columb. Mus., Geol. Ser., **3**, 1 Jan., 1906, (25-54, pls. 19-27).

[07, f, 4].

Noszky, Eugen. Beiträge zur Geologie des Cserhát. Földt. Közl., Budapest, **36**, 1906? (463-470, Deutsch; 411-417, Ungarisch).

[27, B, ii, d].

Östergren, Hjalmar. Einige Bemerkungen über die westeuropäischen *Pseudocucumis*- und *Phyllophorus* Arten. Ark. Zool., Stockholm, **3**, No. 16, 1906, (24 pp.).

[31, B].

Oswald, Felix. A treatise on the geology of Armenia. In two parts. I. Geological results of a journey by the author through Turkish Armenia. II. The geological record of Armenia. Beeston, Notts, (the author), Nov. 1906, (xii+516, 34 pls.). Svo. 24 × 15 cm. 1s.

[27, B, i].

Pack, Fred J. Cambrie fossils from the Pioche Mountains, Nevada. J. Geol., Chicago, Ill., **14**, May, 1906, (290-302, pls. i-iii).

[27, B, iv, k].

Parona, C[arlo] F[abrizio]. Fossili turoniani della Tripolitania. Roma, Rend. Acc. Lincei, ser. 5, **15**, 4 Feb., 1906, (160-164).

[27, B, iii, b, 1].

Pérot, François. Un échinide fossile utilisé aux temps préhistoriques. Rev. sci. Bourbon., Moulins, **19**, 1906, (72-73).

[03, 1. 31, C].

Pervinquière, L. Sur le Jurassique du Sud Tunisien. Paris, Bul. soc. géol., ser. 4, **6**, Dec., 1906, (192-194).

[27, B, iii. b, 1; c, 1].

Peter, Karl. Ein Beitrag zur Vererbungslehre. Ueber rein mütterliche Eigenschaften an Larven von *Echinus*. D. med. Wochenschr., Berlin, **32**, 1906, (1231-1233).

[15, 8].

Petitclerc, Paul. Le Callovien de Baume-les-Dames (Doubs), sa faune. Vesoul (Librairie Louis Bon), 1906, (96 + errata). Svo. 28 × 18 cm. See Lambert, J., **3**.

[27, B, iii, c, 2].

Picard, Edmund. Aufnahmeergebnisse aus Hinterpommern. Bericht über die Aufnahme auf Blatt Schönebeck in den Jahren 1903 und 1904. Berlin, Jahrb. geol. Landesanst., **25**, 1906, (758-766). 30 pf.

[27, B, ii, e].

(Pizon, Antoine.) Recherches sur une prétendue ovulase des spermatozoïdes. Paris, C.-R. Acad. sci., **141**, 1905, (908-910). (257), Zool. Rec., 1905.)

(Polara, Giovanni. 1.) Sull'organo genitale e sulle lacune aborali del *Phyllophorus urna* (Grube). Catania, Atti Acc. Gioenia, Ser. 4, **18**, 1905, Mem. IX, (1-10, tav.). (258), Zool. Rec., 1905.)

Polara, G. 2. Sulla connessione delle cellule pigmentate del mesenchima cutaneo delle Oloturie con i nervi eutanei e sul loro significato funzionale. Nota preliminare. Catania, Boll. Acc. Gioen., n. ser. fasc. **88**, Feb., 1906, (12-24).

[07, b, 9, 10. 11, 6. 15, 7, b. 19, 3].

Polara, G. 3. Sopra alcuni speciali corpuscoli di senso delle Oloturie. Catania, Boll. Acc. Gioen., n. ser., fasc. **90**, May, 1906, (1-8).

[03, 6. 07, b, 9].

Polara, G. vide Russo, Achille.

Przibram, Hans. Die Regeneration als allgemeine Erscheinung in den drei Reichen. Natw. Rundschau, Braunschweig, **21**, Nos. 47, 48, 49, 1906, (8 pp.).

[19, 7].

Raymond, Percy E. The Chazy formation and its fauna. Pittsburg,

Pa., Ann. Carnegie Mus., **3**, 1906, (ii + 498-596, pls. xxii-xxv).

[27, B, iv, h. 31, H].

Reagan, Albert B. **1**. Some fossils from the Lower Aubrey and Upper Red Wall Limestones in the vicinity of Fort Apache, Arizona. Indianapolis, Ind., Proc. Acad. Sci., **1903**, 1904, (237-246, 1 pl.). [27, B, iv, d].

Reagan, A. B. **2**. The fossils of the Red Wall compared with those of the Kansas Coal Measures. Indianapolis, Ind., Proc. Acad. Sci., **1903**, 1904, (249-251). [27, B, iv, d].

Reed, F[rederick] R[ichard] Cowper. The Lower Palaeozoic fossils of the Northern Shan States, Burma. With a section on Ordovician Cystidea by F. A. Bather [q.v.]. Palaeont. Indica, Calcutta, n. ser., **2**, Dec., 1906, Mem. **3**, (158 pp., viii pls.). [27, B, iv, g, h. 31, F, G].

Reichensperger, August. Eine neue Myzostoma-Art. Reports on the results of dredging, under the supervision of Alexander Agassiz . . . 1877-1880, by the U. S. Coast Survey Steamer "Blake" . . . Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **43**, 1906, (199-201). [19, 8].

Remeš, Maurič. **1**. Vrchní vrstvy křídové v Klokočově u Příbora. [The Upper Cretaceous strata in Klokočov near Příbor.] Brünn, Čas. mor. Mus.-Zemsk., **6**, 1906, (7 pp.); [reprint as] Zprávy Komise pro přírodovědecké prozkoumání Moravy. Oddělení geol.-pal., **5**, (7 pp.). [27, B, iii, b, 1].

Remeš, M. **2**. Miscellanea z moravského tithonu. [Miscellanea from the Tithonian of Moravia.] Prossnitz, Věstn. Kl. Přírod., **1906**, 1906, (12 pp.). [27, B, iii, c, 1].

Renz, Karl. Zur Geologie der südöstlichen Rheinpfalz. Berlin, Zs. D. geol. Ges., **57**, 1906, Protok. Briefl. Mit., (569-574). [27, B, iii, d].

Retzius, Gustaf. Ueber die Verteilung der Sinnesnervenzellen in der Haut der Holothurien. [In] Retzius, Biolog. Untersuchungen, N.F., **13**, Jena (Fischer), 12 Apr., 1906, (113-116). [07, b, 9].

Rogers, Austin F[lint] *vide* Beede, J[oshua] W[illiam].

(**Russo**, Achille & **Polara**, Giovanni. Sulla secrezione interna delle cellule peritoneali della gonade del *Phyllophorus*

urna (Grube). Catania, Atti Acc. Gioenia, Ser. **4**, **18**, 1905, Mem. IV, (1-9, tav.). (283) Zool. Rec., 1905).

Sacco, Federico. Les étages et les faunes du bassin Tertiaire du Piémont. Paris, Bul. Soc. géol., ser. **4**, **5**, Aug., 1906, (893-916, pls. xxx-xxxi).

[27, B, ii, a].

Salisbury, R[ollin] D. *vide* Chamberlin, Thomas Chrowder.

(†**Savin**, I[ouis] H.). Note sur quelques échinides du Dauphiné et autres régions. Grenoble, Bul. Soc. stat. sci. nat., Ser. **4**, **6**, 1902, (264-287, iv pls.). (247) Zool. Rec. 1902.)

†**Savin**, L. [H.] *vide* Jacob, Charles & Tobler, Auguste; also Lambert, Jules & Savin, L. H.

†**Savin**, L. H. & **Lambert**, J. Note sur un Echinide nouveau du Barrémien inférieur de Gourdon (A.-M.). Nice, Ann. Soc. let. sci., **20**, 1906, (96-97). [27, B, iii, b, 2. 31, C].

Scalia, S. I fossili postpliocenici di Salustro, presso Motta S. Anastasia. Catania, Atti Acc. Gioenia, Ser. **4**, **19**, 1906, Mem. **17**, (12 pp.). [27, B, ii, b].

Schmidt, Wilhelm Erich. Der oberste Lenneschiefer zwischen Letmathe und Iserlohn. Berlin, Zs. D. geol. Ges., **57**, 1906, (498-566, Taf. xx-xxiii). [27, B, iv, f. 31, F].

Schoendorf, Friedrich, **1**. Das Genus Sphaeraster und seine Beziehungen zu rezenten Seesternen. Wiesbaden, Jahrb. Ver. Natk., **59**, Nov., 1906, (251-256). [07, d, 5. 31, D].

Schoendorf, F. **2**. Die Organisation und systematische Stellung der Sphaeriten. Berlin, Arch. Biont., **1**, 1906, (245-306, Taf. 24, 25).

[07, d, 4, 5. 19, 1.

27, B, iii, c, 1. 31, D]

Schuchert, Charles. A new American Pentremite. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **30**, 1906, (759-760). [27, B, iv, e. 31, H].

Schücking, [A.]. Einige biologische Beobachtungen und zur Abwehr. Mitt. zool. Stat. Neapel, Berlin, **17**, 12 Jun., 1906, (524-528). [15, 8].

Schumann, H[ugo] & **Leonhard**, [Otto]. Das Kreidelager bei Grimme. Prenzlau. Mitt. Uckermark. Mus. u. Geschichts-Ver., **1**, 1902, (79-80).

[27, B, iii, b, 1]

Schurig, Walther. *Anatomic der Echinothuriden*. Wissensch. Ergebnisse d. D. Tiefsee-Expedition, Bd 5, Lfg 3. Jena (G. Fischer), 1906, (291-350, Taf. li-liv). 35 cm. M. 12.

[03, 1, 6. 07, c, 1, 5, 6, 8, 10, 11. 11, 5, 7. 15, 6, c, 5. 19, 8. 23, 5, 6, 10].

Séguin, [C.]. 1. Sur l'identité d'*Hemipygus tubereulosus* et d'*Hemicidaris crenularis*. Paris, C.-R. Acad. sci., 142, May, 1906, (1167-1169).

[07, c, 2. 15, 7, c. 31, C].

Séguin, [C.]. 2. Recherches sur l'identité de l'*Hemipygus tubereulosus* (Cotteau) et de l'*Hemicidaris crenularis* (Lamarck). Bourges, Mem. Soc. hist. lit. Cher., sér. 4, 20, Apr., 1906, (325-333).

[07, c, 2. 15, 7, c. 31, C].

See Lambert, J., 4.

Sheppard, [Thomas]. Yorkshire naturalists at Flamborough, June 2-4, 1906. Geological Section (241-242) by J. W. Stather. Naturalist, London, 1906, No. 594, Jul., 1906, (240-248).

[27, B, iii, b, 1].

Sherborn, [Charles] Davies. Remarks on the Irregular Echinoids of the White Chalk of England as exhibited in the British Museum (Natural History). Geol. Mag., London, n. ser., dec v, 3, Jan., 1906, (31-33).

[03, 5. 27, B, iii, b, 1. 31, C].

Sherborn, C. D. v. Green, Upfield.

Shipley, Arthur E. *vide* MacBride, Ernest William, 2.

Siemiradzki, Jos[ef] von. Die paläozoischen Gebilde Podoliens. Wien, Beitr. Pal. Geol. Oest. Ung., 19, 1906, (173-286, Taf. xv-xxi). [27, B, iv, g].

Simonelli, Vittorio. Intorno ad alcune singolari paleoicniti del Flysch appenninico. Bologna, Mem. Acc. sc., Ser. 6, 2, 1905, (263-268).

[27, B, ii, f. 31, B].

Slocum, Arthur Ware *vide* Springer, F. & Slocum, A. W.

Smith, Essie Alma. Development and variation of *Pentremites conoideus*. In: Cumings, E. R. & others Fauna of the Salem Limestone. Indiana, Rep. Dept. Geol. Nat. Res. Indianapolis, 30, 1906, (1219-1242, pls. xliii-xlvii).

[03, 6. 07, h, 5. 15, 7, h. 23, 6, 7, 10].

Soldatov, V. v. Derjugin, K. M.

Springer, Frank. Discovery of the disk of *Onychoerinus* and further re-

marks on the Crinoidea Flexibilia. J. Geol., Chicago, Ill., 14, Oct., 1906, (467-523, pls. iv-vii).

[07, f, 5. 23, 3, 8, 10. 31, F].

Springer, Frank & **Slocum**, Arthur Ware. *Hypsocrinus*, a new genus of crinoids from the Devonian. Chicago, Ill., Pub. Field Columb. Mus. Geol. Ser., 2, 1 Jun., 1906, (267-271, pl. lxxxi).

[27, B, iv, f. 31, F].

Stather, J[ohn] W[alker] *vide* Sheppard, Thomas.

Stieren, Adolf. Die Insel Solowetzsk im Weissen Meere und ihre biologische Station. Jurjev, Sitzb. Naturf.-Ges., 10, 1894, (255-297). [27, A, v].

Taylor, T. Griffith. The first recorded occurrence of Blastoidea in New South Wales. Sydney, N.S.W., P. Linn. Soc., 31, 27 Jun., 1906, (54-59).

[27, B, iv, e. 31, H].

Tennent, D[avid] H[ill], and **Hogue**, M. J. Studies on the development of the starfish egg. J. Exp. Zool., Baltimore, Md., 3, 1906, (517-542 + 4 l., 5 pls.). [03, 3. 07, d, 12. 15, 8].

Tesch, J[ohan] J[acob]. Bijdrage tot de fauna der zuidelijke Noordzee. I. Echinodermata verzameld met de "Wodan" 1902-1906. [Beiträge zur Fauna der südlichen Nordsee. I. Echinodermata gesammelt mit der "Wodan" 1902-1906]. Helder, Jaarb. Onderz. Zee, 1905, 1906, (77-87).

[27, A, ii].

T[hevenin], A[rmand]. Types du Prodrome de paléontologie de d'Orbigny. Ann. de Paléont., Paris, 1, Nov., 1906, fasc. 4, (193-196). [31, H, *Pentremites*].

Thévenin, Armand *vide* Boule, Marcellin.

Thiéry, P., 1. Rectifications de nomenclature. Rev. crit. paléozool., Paris, 10, Jan., 1906, (77). [31, C, *Leptechinus*].

Thiéry, P., 2. Rectifications de nomenclature. Rev. crit. paléozool., Paris, 10, Apr., 1906, (130). [31, C, *Leptechinus*].

Tobler, Auguste *vide* Jacob, C. & Tobler, A.

Tokunaga, S[higeyasu]. Fossils from the environs of Tokyo. Tokyo, J. Coll. Sci., 21, 1906, Art. 2, (96 pp., vi pls.).

[27, B, ii, b].

Treacher, Llewellyn & **White**, Harold J. Osborne. The higher zones of the Upper Chalk in the western part

of the London Basin. London, Proc. Geol. Ass., **19**, 27 Aug., 1906, (378-399, pl. vii). [27, B, iii, b, 1].

Treacher, L. *ride* White, H. J. O. & Treacher, L.

Trouessart, E[donard] L[ouis]. La distribution géographique des animaux vivants et fossiles. (Echinodermes) Naturaliste, Paris, Ser. 2, **20**, 1 Aug & 15 Oct., 1906, (178, 236). [27, A, i: B, i].

Turquet, J. La vie animale au Pôle Sud. [being] Appendice V [to] J. B. Charcot: Le "Français" au Pôle Sud. Paris (E. Flammarion), 12 Dec., 1906, (415-133). [27, A, vi].

Ussher, W. A. E. *r.* Woodward, H. B.

Vadász, M. Elemér. Budapest-Rákos felső Mediterránkorú faunája. (Ueber die obermediterrane Fauna von Budapest-Rákos.) Földt. Közl., Budapest, **36**, Oct., 1906, (256-283, 323-351, Taf. x). [27, B, ii d. 31, C].

(**Valette**, Aurélien. 1. Description de quelques échinides nouveaux de la craie sénoniennne du département de l'Yonne. Auxerre, Bul. soc. sci. hist. nat. Yonne, **58**, 1905, (21-45), (324), Zool. Rec., 1905.)

Valette, A. 2. Étude sur la formule porifère d'un certain nombre d'Échinides réguliers. Auxerre, Bul. soc. sci. hist. nat. Yonne, **59**, sem. 1, 1906, (271-311). [07, c, 5. 27, B, iii, a. 31, C].

Vaney, Clément]. 1. Deux nouvelles Holothuries du genre *Thyone* provenant des Orcades du Sud. Bul. Muséum, Paris, **12**, Sept., 1906, (400-402). [27, A, vi. 31, B].

Vaney, C. 2. Note préliminaire sur les Holothuries recueillies par l'expédition antarctique française du Dr. Charcot. Bul. Muséum, Paris, **12**, Sept., 1906, (402-407). [27, A, vi. 31, B].

Vaney, C. 3. Holothuries. [In] Expédition antarctique française (1903-1905). . . . Sciences naturelles: Documents scientifiques. Paris (Ministère de l'instruction), Dec., 1906, (30, 2 pls.). 28 × 23 cm. [03, 6. 19, 9. 27, A, vi. 31, B].

Vaney, Clément *ride* Koehler, René.

Vaughan, Arthur *ride* Matley, C. A.

Vinassa de Regny, Paulo e **Gortani**, Michele. Fossili carboniferi del M. Pizzul e del piano di Lanza nelle Alpi Carniche. II. Fossili animali (di (N-9720 m)

Michele Gortani). Roma, Boll. Soc. geol. Ital., **24**, 1905, (521-605, tav. xv). [27, B, iv, d. 31, C].

Wanderer, Karl. Die Jura-Ablagerungen am Westrande des Bayrischen Waldes zwischen Regenstein und der Bodenwöhrerbucht. N. Jahrb. Min., Stuttgart, Beilage Bd. **21**, 1906, (168-539, Taf. xxxi, xxxii). [27, B, iii, c, 1].

Weller, Stuart. Kinderhook faunal studies. IV. The fauna of the Glen Park Limestone. St. Louis, Mo. Trans. Acad. Sci., **16**, 11 Dec., 1906, (435-471, pls. vi, vii). [27, B, iv, e].

Weller, S. *ride* Chamberlin, T. C. & Salisbury, R. D.

White, Harold J. Osborne & **Treacher**, Llewellyn. The phosphatic Chalks of Winterbourne and Boxford (Berkshire). London, Q. J. Geol. Soc., **62**, 17 Aug., 1906, (499-522). [23, 7. 27, B, iii, b, 1].

White, H. J. O. *ride* Treacher, L. & White, H. J. O.

Whiteaves, J[oseph] F[rederick]. 1. The fossils of the Silurian (Upper Silurian) rocks of Keewatin, Manitoba, the north eastern shore of Lake Winnipegosis, and the lower Saskatchewan River. Palaeozoic Fossils, **3**, Ottawa, Geol. Surv. Canada, Sept., 1906, (243-298, pls. xxiii-xxxv, xli-xlii). [27, B, iv, g].

Whiteaves, J. F. 2. Illustrations of seven species of fossils from the Cambrian, Cambro-Silurian and Devonian rocks of Canada. Palaeozoic Fossils, **3**, Ottawa, Geol. Surv. Canada, Sept., 1906, (313-325, pls. xxxiii [sic], xxxv. [31 G. *Steganoblastus*].

Whitfield, R[obert] P[arr] & **Hovey**, E[dmund] O[tis]. Remarks on and descriptions of Jurassic fossils of the Black Hills. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, 17 Dec., 1906, (389-402). [27, B, iii, c. 31, C, E, F].

Whitney, David D. An examination of the effects of mechanical shocks and vibrations upon the rate of development of fertilised eggs. J. Exp. Zool., Baltimore, **3**, 1906, (41-47). [15, 8].

Wilson, J. Howard. The Pleistocene formations of Sankaty Head, Nantucket. J. Geol., Chicago, Ill., **13**, Dec., 1905, (712-731). [27, B, ii, b].

Wiman, Carl *ride* Hedström, Herman.

Wollemann, A. Alte und neue Aufschlüsse im Flammenmergel, Varianspläner und Turon in der Umgegend von Braunschweig. Braunschweig, Jahresber. Ver. Natw., **14**, 1906, (96-99).

[27, B, iii, b, 1].

Woodland, W[illiam Norton Ferrier]. Studies in spicule formation. IV. The scleroblastic development of the spicules in *Cucumariidae*; with a note relating to the plate-and-anchor spicules of *Synapta inhaerens*. Q. J. Microsc. Sci., London, **49**, Feb., 1906, (533-559, pls. xxxii-xxxiv).

[03, 6. 07, b, 4, 10. 15, 6, b, 4].

Woods, Henry. The Cretaceous Fauna of Pondoland. Cape Town, Ann. S. Afric. Mus., **4**, 20 Dec., 1906, Pt. VII, (275-350, pls. xxxiii-xliv).

[27, B, iii, b, 1. 31, C].

Woodward, H[orace] B[olingbroke] & Ussher, W[illiam] A[ugustus] E[dmund]. The geology of the country near Sidmouth and Lyme Regis with contributions by A. J. JUKES-BROWNE, (Explanation of Sheets 326 and 340). Mem. geol. Surv., England, 1906, (96, 1 pl.). [27, B, iii, d].

Zoeppritz, Karl. Geologische Untersuchungen im Oberengadin zwischen Albulapass und Livigno. Freiburg i. B., Ber. natf. Ges., **16**, Jun., 1906, (164-231).

[27, B, iii, c, 1; d].

II.—SUBJECT INDEX.

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COMPREHENSIVE AND GENERAL.

1003

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Larvae in Plankton, North Sea; **Conseil internat.**, 1, 2 & 3.

Plankton, Murman Sea; **Derjugin**, (104, 161).

Bipinnaria and *Pluteus*; **Delap**, 1, (5).

b. Young of *Synapta*, with contractile rosettes; **Becher**, (508).

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c. Parthenogenetic *Paracentrotus* raised in 1 month to Echinoid with 2 pedicellariae; **Delage**, 2.

Ech. blastulae and gastrulae always come to top of water, geotropism; **Lyon**, 2.

d. *Bipinnaria* of *Luidia sarsi*, growth of young to 95 mm. diam.; **Delap**, 2, (15).

Larva of *Stellosphaera*, 2 stages; **Koehler & Vaney**, 1 & 2.

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b. Development of spicules in *Cucumariidae* and *Synapta*; **Woodland**, (figs., pls.).

c. Symmetry, bilateral, first visible in Gastrula with mesenchyme, but foreshadowed in stage with 2 precocious micromeres. In a half blastomere larva the median plane is at right angles to the original median plane, i.e. the primitive groove. Dispersing destroys bilaterality; **Driesch**, 1 and 2.

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d. Skin glands, *Echinaster*, *Cribrella*; **Barthels**.

7. Post-larval growth-stages.

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Increase of pigment and other changes in integument of spp. of *Holothuria* with age and change of habitat; **Polara**, 2.

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h. Development of *Pentremites conoides* from specimens 0.82 mm. long to adults 22 mm. long, detailed measurements and curves, comparison with young *Codaster*; **Smith**.

8. Developmental Mechanics and Experimental Embryology.

Reply to Herbst 119. Zool. Rec. 1904; **Schücking**.

Factors determining arrangement of chromatin and form of nucleus in oocyte, *Antedon*; **Chubb**, 2, (492).

Polarity of ovum, *Paracentrotus*; **Garbowski**.

Development of bilateral symmetry in *Echinus microtuberculatus*; **Driesch**, 1 & 2.

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Osmosis and entrance of spermatozoa in *Arbacia*; **Ariola**.

Lack of oxygen or prevention of oxidation by KCN prevents disintegration of ova after membrane-formation, *Strongylocentrotus*; **Loeb**, 2 & 5.

Lack of oxygen prevents toxic effects of hypertonic solutions on *Ech.* ova; **Loeb**, 4.

Chemical aspect of fertilisation; in *Strongylocentrotus* absence of free oxygen or addition of potassium cyanide check segmentation, more carbon dioxide formed by fertilised ova than by unfertilised; **Loeb**, 6.

Effects of compression and want of oxygen on maturation, fertilisation, and segmentation of ova and sperm-ova, *Asterias*; **King**.

Sperm-ova *Arbacia* and *Asterias* more susceptible to cyanides just before and during segmentation; **Mathews**, 1.

Separation of *Arbacia* ovum-material into 4 layers by centrifugalizing; fertilization; development of sperm-ovum normal, except for pigmentation; **Lyon**, 1.

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of sperm-ova in *Arbacia* and *Asterias*; **Whitney**.

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Artificial Parthenogenesis.—

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i. General.

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Bathymetric, of *Pelagothuria*; **Herouard**, 3.

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Irish coast, plankton, various larvae and young *Oph*; **Gough**, (12, 22, 34, 36, 50, 52).

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Mediterranean, Sicily littoral, list of *Ech.*, esp. spp. of *Centrostephanus*,

Psammechinus, *Arbacia*, *Sphaerechinus*, *Strongylocentrotus* [*Paracentrotus*], *Brissopsis*, *Echinocardium*; **Checchia, 2.**

W. Africa, Mauritania coast, *Echinometra subangularis* and spp. n. of *Patiria*, *Holothuria*; **Koehler & Vaney, 3.**

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Azores, probably 2,000–3,000 m., *Stellosphaera* gen. n. *Ast*; **Koehler & Vaney, 1 & 2.**

iii. Indian Ocean and adjacent seas.

Red Sea, Arabia, *Echinus*, *Clypeaster*, *Echinanthus*, *Echinodiscus*, and *Temnopleurus* sp. n., *Stellaster*, *Asterina*, *Linckia*, and *Astropecten* sp. n., *Amphiura*, *Ophionereis*, *Ophiothrix*, *Ophiopsammium*, *Ophiothela*; **Koehler, 3.**

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iv. Pacific Ocean and adjacent seas.

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Hawaiian Is., from shore to 1000 fm., monograph of *Ast.*; spp. n. of *Astropecten*, *Ctenophoraster* n., *Tritonaster* n., *Psilaster*, *Psilasteropsis* n., *Dipsacaster*, *Patagiaster* n., *Luidia*, *Pseudarchaster*, *Cheiraster*, *Mediaster*, *Nereidaster*, *Pentagonaster*, *Tosia*, *Astroceramus* n., *Calidderma*, *Calliaster*, *Gilbertaster* n., *Ecoplosoma* n., *Antheniaster*, *Pentaceros*, *Asterodiscus*, *Ophidiaster*, *Leiaster*, *Anseropoda*, *Henricia*, *Asthenactis* n., *Pteraster*, *Hymenaster*, *Benthaster*, *Zoroaster*, *Coscinasterias*, *Hydrasterias*, *Odinia*, *Brisinga*; also *Goniodiscides* nom. nov., *Archaster*, *Linckia*, *Echinaster*, *Valvaster*, *Mithrodia*; discussion of faunistic relations; **Fisher, 3.**

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Murman coast, Ekaterin harbour Echinoderm fauna, list of various references; **Derjugin, (90, 94, 97, 105, 148).**

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vi. Antarctic Ocean and adjacent seas.

Charcot Exped., Echinoderms, popular; **Turquet.**

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Belgica coll. spp. of *Mesothuria*, *Rhipidothuria*, *Peniagone*, *Cucumaria*, *Psolidium*, *Psolus*, *Trochostoma*, *Sigmodota*, and *Elasipod* larvae; **Herouard, 2.**

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Geol. Distrib. of *Echinoderma* **Trouessart, (178).**

General palaeontology of *Crin*; **Hamann, (1551).**

Geology of France, Lists of fossils (passim), figs. of *Clypeaster*, *Diademopsis*, *Toxaster*, *Clypeus*, *Encrinurus*; **Fritel.**

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Tertiary, N. Madagascar, *Ech.* (vide 1027, B, i); **Lemoine.**

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Salustro, Catania, *Amphiura*, radiole of *Cidaris*; **Scalia.**

Nantucket, *Strongylocentrotus*; **Wilson.**

Near Tokyo, *Temnopleurus*, *Laganum*, *Echinarachnius*, *Fibularia*; **Tokunaga.**

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Upper,—Gourbesville (Manche), *Echinocyamus*; **Dollfus.**

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Apennine Flysch, *Hol.* imprints, *Lorenzina*; **Simonelli**.

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Kientaleralps, fragmentary Echinoderms, *Cidaris*, *Pentaer.*; **Gerber** (passim).

Aralo-Caspian region, Great and Little Balkhan and Krasnovodsk peninsula, *Ech.* (60, 129), *Toxaster* (82), *Cidaris* (127), *Metaporrhinus* (131), *Millerier*. (131–134), *Holaster* (137); **Andrusov**.

b. Cretaceous.

Jerusalem, *Holactypus*, *Codiopsis* (37), *Echinobrissus*, *Cyphosoma* (38); **Blanckenhorn**.

N. Madagascar, *Ech.* (vide 1027 B, i); **Lemoine**.

1. Upper Cretaceous.

White Chalk, England, range of spp. of *Echinocorys*, *Conulus*, *Discoidea*, *Ha-*

genovia, *Hemias-ter*, *Holaster*, *Cardiaster*, *Offaster*, *Micraster*, *Epiaster*, *Insulaster*; **Sherborn**.

Devonshire, *Crin.* and *Ech.*, *Micraster*, *Holaster*; **Clayden** (48, 49).

Near Brunswick, *Holaster*, *Pseudodia-dema*, *Discoidea*; **Wollemann**.

Moravia, *Cidaris*, *Echinocorys*, *Pentaer.*; **Remeš**, 1.

Andalusia, Spain, *Echinocorys*, *Discoidea*, *Echinoconus* (fig.), *Hypsaster*, *Pedinopsis*, *Enallaster*, *Hemias-ter*, *Holaster*; **Douvillé**, R, (76–78, 173).

Egypt, *Orthopsis*, *Rhabdocidaris*, and spp. n. of *Platoxaster* gen. n., *Echino-brissus*, *Echinocorys*, *Linthia*; **Fourtau**.

Tropical E. Africa, distrib. of *Ech.*; **Chautard**.

Echinoderms esp. N. America; **Chamberlin & Salisbury**, (iii, 186, fig.).

Cerro de Muleros, Chihuahua, Mexico, locc. and horizons of *Ech.*; **Boese**, 3, (5, 7, 8, 17, 18, 19, 24).

Upper Danian, Aquitaine, *Cidaris*, *Echinocorys*, *Balanoer.*, *Bourquetier*; **Douvillé**.

Danian, Djebel Tar, Tripoli, *Hemi-aster chargensis*, and spp. n. of *Discoidea*, *Catopygus*, *Pygorhynchus*; **Krumbeck**.

Upper Senonian or ?Maestrichtian, E. Madagascar, *Epiaster*, *Hemias-ter*, *Noetlingia boulei* sp. n.; **Lambert** in **Boule & Thévenin**.

Senonian, Norfolk, *Epiaster*, *Micraster*, *Echinoconus*, *Echinocorys*, *Cardiaster*, *Stegaster*, *Cidaris*, *Cyphosoma*, *Goniaster*, *Pentaer.*; **Brydone**.

Senonian, Carnaby, Yorksh., *Cardi-aster*, *Echinocorys*; **Sheppard**.

Senonian, London Basin, range and locc. of spp. of *Cidaris*, *Cyphosoma*, *Echinocorys*, *Conulus*, *Epiaster*, *Helicodiadema*, *Ilagenovia*, *Micraster*, *Offaster*, *Calliderma*, *Metopaster*, *Pentaceros*, *Pentagonaster*, *Ophira*, *Bourquetier.*, *Marsupites*, *Pentaer.*, *Uintaer*; **Treacher & White**.

Senonian, Berkshire, phosphatic chalk, spp. of *Cidaris*, *Helicodiadema*, *Echino-corys*, *Micraster*, *Offaster*, *Metopaster*, *Marsupites*, *Uintaer.*, *Bourquetier.*, *Pentaer.*; **White & Treacher**.

Upper Senonian, Grimme bei Löcknitz, *Caratomus avellana*, *Echinoconus roemeri*, and common Echinoids; **Schumann & Leonhard**.

? Senonian, Eure-et-Loire, France, *Pentaceros* sp. n.; **Meunier, 1**.

Senonian, Venetia, *Paronaster* gen. n., *Lampadocorys*; **Airaghi**.

Upper Senonian, Roca, Rio Negro, *Hemiaster*; **Burckhardt**.

Senonian, Pondoland, S. Africa, *Cidaris*, *Hemiaster*, and spp. n. of *Pseudodiadema*, *Cardiaster*, *Cassidulus*; **Woods**.

Upper Turonian, Lincolnshire, *Holaster*, *Echinocorys*, *Micraster*, *Cidaris*, *Infulaster*, *Cyphosoma*, *Galerites*, *Goniaster*; **Burnet**.

Turonian, Tarahuna, Tripoli, *Salenia*, *Orthopsis*; **Parona**.

Turonian, Algeria and Charentes, *Linthia* spp. n.; **Fourtau**.

Cenomanian and Turonian, Sinai and Abu Roash, spp. n. of *Heterodiadema*, *Acanthechinopsis* n., *Micropedina*, *Cyphosoma*, *Thylechinus*, *Coptosoma*, also spp. of *Holactypus*, *Galerites*, *Nucleolites*, *Hemiaster*, *Linthia*; **Gregory**.

Cenomanian, England, zones characterised by *Holaster subglobosus*, *H. trecensis*; horizons of spp. of *Cidaris*, *Echinocyphus*, *Discoidea*; **Bosworth**. See also **Jukes-Browne**.

Cenomanian, Cap de la Hève, *Pentacr.*, *Cidaris*, *Salenia*, *Galerites*; **Combes**.

Cenomanian, S. Tunis, *Heterodiadema*; **Pervinquière**.

Albian, "Gault," Luitere Zug, Switzerland, *Epiaster*, *Holaster*, *Catopygus*, *Discoidea*, *Peltastes*, *Diplopodia*; at Lochwald, *Hemiaster*; **Jacob and Tobler**.

2. Lower Cretaceous.

Echinoderms, esp. N. America; **Chamberlin & Salisbury** (iii, 135, fig.).

Barremian, Alpes-Maritimes, *Plegiocidaris* sp. n.; **Savin & Lambert**.

Lower Valanginian, Germany, various loc., *Pentacr.* columnals; **Harbort**.

c. Jurassic.

Jurassic, Black Hills, Wyoming and Dakota, *Pentacr.*, and spp. n. of *Ophiaster* n. and *Cidaris*; **Whitfield & Hovey**.

1. Upper Jurassic.

Gap, France, *Cidaris*; **Haug & Kilian**.

Tithonian, Stramberg, list of *Crin.* and *Ech.*; **Remeš, 2**.

Lower Tithonian, Mürtirol, Engadine, *Pentacr.*, *Phyllocr.* cf. *oosteri*; **Zoeppritz**, (199).

Weisser Jura, distrib. of *Sphaerites*; **Schoendorf, 2** (298).

Sequanian, zone of *Oppelia tenuilobata*, Bavaria, *Stomechinus*, *Holactypus*, *Cidaris*, *Rhabdocidaris*, *Collyrites*; **Wanderer** (512, 514, 516, 518).

Sequanian of Tatahouine, S. Tunis, *Pygurus*, *Aeropeltis*, *Monodiadema*; **Pervinquière**.

Kimmeridgian or Rauracian, Safi, Morocco, *Cidaris*, *Aeropeltis*; **Gentil & Lemoine**.

2. Middle Jurassic.

Gap, France, *Cidaris*; **Haug & Kilian**.

Callovian of Baume-les-Dames (Doubs), *Collyrites*, *Echinobrissus*, *Holactypus*, *Pygurus*, *Rhabdocidaris*, *Stomechinus*, *Millerier.*; **Petitclerc**.

3. Lower Jurassic.

Bathonian, Belfort, Franche-Comté, *Pseudodiadema*, *Stomechinus*, *Hemipedina*; **Maire**.

Lower Bathonian, Alpes Maritimes, *Acrosalenia* sp. n.; **Lambert & Savin**.

d. Lias (including Rhaetic).

Dorset, lists of *Echinoidea*; **Woodward & Ussher**.

Ubaye, Aveyron, *Pentacr.*; **Haug & Kilian**.

Toarcian near Mâcon, *Pentacr.*, *Cidaris*; **Lissajous**.

Lower Lias, S.E. Rheinpfalz, *Pentacr.*; **Renz**.

Sinemurian, Engadine, *Millerier.*, *Pentacr.* in Steinsberger Kalk (191) in Fleckenmurgel (193, 196); **Zoeppritz**.

Rhaetic, Kössener Schichten, Engadine, *Crin.*, *Ech.*; **Zoeppritz**, (189).

e. Trias.

Echinoderms esp. N. America; **Chamberlin & Salisbury**, (iii, 57).

Silesia, *Encr.*, *Entrochus*, *Dadoer.*, *Aspidura*, *Cidaris*, *Radiolus*; **Ahlburg**.

Raiblian, incl. Pachycardientuff and other beds of S. Tirol, *Cidaris*, *Encrinus*; **Koken**.

IV. Palaeozoic.

a. General.

Europe, America, Australia, *Botryoer.*, *Baryer.*, *Cosmoer.*; **Bather**, 3.

b. Permian.

Vacant.

c. Permocarboniferous.

Near Forni Avoltri, Carinthia, *Cyathoer.*, *Poterioer.*; **Gortani**, 1.

Gerrington, N.S.W., *Tribrachioer.*, *Phialoer.*; **Dun**.

d. Upper Carboniferous.

Echinoderms, esp. N. America; **Chamberlin & Salisbury**, (ii, 617, fig.).

Middle Ouralian?, Forca Pizzul, Carnic Alps, *Archaeocidaris* sp. n.; **Vinassa de Regny & Gortani**, **Gortani**, 2.

Upper Coal Measures, S.E. Kansas, *Cerioer.*, *Erisocr.*, *Hydreionoer.*, *Phialoer.*, *Archaeocidaris*; **Beede & Rogers**.

Upper Red Wall Limest., White River canyon, S.W. of Fort Apache, Gila Co., Arizona, *Cerioerinus*, *Archaeocidaris*; **Reagan**, 1 (239, pl.).

Red Wall Limest., Rocky Mts., *Archaeocidaris*; **Reagan**, 2.

e. Lower Carboniferous.

Echinoderms, esp. N. America, **Chamberlin & Salisbury**, (ii, 519, fig., 522, fig., 526, 530, fig.).

Upper Carboniferous Limest., Rouken Glen, Glasgow, *Poterioerinus*, *Pisocerinus* [*sic*], *Archaeocidaris*; **Macnair**, (373, 375, 393).

Lower Carboniferous Limest., Cannock Chase, Staffordsh., *Archaeocidaris*, *Crin.*; **Cockin**.

Carboniferous Limestone, Westleigh, Devon, *Crin.*; **Clayden** (48).

Zaphrentis zone, Bristol, *Ascoer.*; **Bather** in **Hind**, (173): co. Dublin, *Actinoer.*, *Platyer.*; **Bather** in **Matley** (296).

Altenberg and Katzenlöcher, Hungary, large *Crin.* columnals (29), Bosnia, *Poterioer.* (43); **Frech**.

Nebraska, List of *Ech.* and *Crin.*, *Archaeocidaris*; **Barbour** (127).

Bangor Limest., Cole City, Georgia, *Pentremites* sp. n.; **Schuchert**.

Warsaw group, Salem Lst., Indiana, *Batoer.*, *Dizygoer.*, *Platyer.*, *Poterioer.*, *Ichthyoer.*, *Dichoer.* with *D. blatchleyi* sp. n., *Talaroer.*, *Symbathoer.*, *Pentremites*, *Metablastus*, *Tricoeloer.*, *Archaeocidaris*, *Ilo.* spicules; **Beede**.

Kinderhook, Glen Park Limest., Jefferson Co., Mo., *Actinoer.*, *Agaricoer.*; **Weller**.

Glenwilliam Carboniferous series, N. of Clarence Town, N.S.W., *Metablastus?*, *Actinoer.*; **Taylor**.

f. Devonian.

Echinoderms, esp. N. America; **Chamberlin & Salisbury**, (ii, 456, fig., 459, 464, fig., 470, fig.).

Middle Devonian, Oberste Lenneschiefer, Westphalia, spp. n. of *Rhipidoer.* & *Rhenocr.*, also *Cupressoer*; **Schmidt**.

Taunusian, Cornwall, large *Crin.* columnals and *Lodanella*; **Green & Sherborn**.

Upper Devonian, Cashaqua horizon, Interlaken, N.Y., *Helianthaster*; **Clarke**, 2 (37).

Portage beds, Naples fauna, Ontario Co., N.Y., *Meloer.*, *Scytalocr.*, *Taxocr.*; **Clarke**, 1 (346, 348, 364).

Hamilton group, New York, *Hypsoer.* gen. n.; **Springer & Slocum**.

Lower Devonian, E. New York, locc. and horizons of spp. of *Melocr.*, *Aspidocr.*, *Homocr.*, *Mariaer.*, *Platyer.*, *Brachioer.*, *Coronoer.*, *Dietyoer.*, *Lepadoer.*; **Grabau** (135, 155, 320-323).

Falkland Is., Port Louis South, Crinoid stems like those from Bokkeveld beds figd. Sharpe 1856, pl. xxv, f. 24, also *Crin.* stems from W. Falkland, Hope Point; **Newton** (256).

g. Silurian.

Echinoderms, esp. N. America; **Chamberlin & Salisbury** (ii, 400, fig.).

Podolia, *Glyptocr.*, *Cyathocr.*, *Phacites*, *Entrochus*, *Crotaloer.*, *Cupressoer.*; **Siemiradzki**.

Upper Burma, *Crin.* fragments; **Reed** (93).

Ekwan R. (248), Fawn R. (277), Keewatin, Canada, *Crin.* fragments; **Whiteaves**, 1.

Upper,—S. E. New York, Manlius Lst., *Homocr.*, *Camarocr.*; **Grabau** (319).

h. Ordovician.

Echinoderms, esp. N. America; **Chamberlin & Salisbury** (ii, 357, fig.).

Bala Limest., Caermarthen, *Echino-sphaerites*, *Glyptocr.* (634), Redhill beds, *Hemicosmites*; **Evans** (639).

Russia, distrib. of spp. and mutations of *Glyptocystis*, *Asteroblastus*, *Mesites*, *Echinoener.*, *Asteroer.*, *Haploer.*?, *Pentacr.*?, *Cyathocr.*?, *Cheiroer.*, *Bolboporites*; **Lamansky** (79, 171, 178).

Öland, *Sphaeronis*, *Glyptocystis*, *Echino-sphaera*; **Hedström & Wiman** (104, 106, 108).

Upper,—Nyaungbaw beds, Yemeyé Upper Burma, *Seyphocr.*, *Camarocr.* sp. n.; **Reed** (86, 88); **Holland**.

Lower,—Naungkangyi beds, Upper Burma, spp. nn. of *Aristocystis*, *Helioer.*, *Caryoer.*, *Protoer.*; **Bather**, 4: discussion of age (84), spp. indett. of *Echinoener.*, *Cheiroer.*, *Caryoer.*, *Helioer.*, *Echino-sphaerites*; **Reed**: *Aristocystis*; **Holland**.

Chazy Formation, New York and Canada, lists of *Cystidea*, *Bolboporites*, *Blastoidocrinus*; **Raymond** (passim).

k. Cambrian.

Cystids, *Eocystis*, esp. N. America; **Chamberlin & Salisbury** (ii, 286, fig.).

Middle,—Nevada, *Eocystis*; **Pack**.

III. TAXONOMY AND SYSTEMATIC INDEX. 1031

A. ECHINODERMA, GENERAL.†

Physiol. criteria of spp., vide sub *Holothuria*; **Briot**, 2.

Pelmatozoa in 5 Classes: *Crinoidea*, *Thecoidea*, *Campoidea*, *Cystoidea*, *Blastoidea*; **MacBride**, 2.

B. HOLOTHURIOIDEA.

Holothurian spicules?; **Beebe** (1270 pl. xix).

Allantis, maintained; **Herouard** 2 (6).

Chiridota laevis; **Derjugin** (90, 149).
— *C. pellucida*, parasitic gregarine; **Dogiel**.

Cucumaria sp., Port Charcot, descr.; **Vaney**, 3 (19).—*C. antarctica* sp. n. various locc. shore to 110 m., Charcot exped.; **Vaney**, 2, Bul. Muséum Paris, 1906 (404): descr., one young; **Vaney**, 3 (6, pl.).—*C. attenuata* sp. n. 20-40 m., Carthage B.; **Vaney**, 2, Bul. Muséum Paris, 1906 (404); described, and young; **Vaney**, 3 (10, pl.).—*C. brunnea*; **Woodland** (535).—*C. caligera*; **Derjugin** (148).—*C. communis*; **Östergren**.

† A dagger prefixed to the trivial name of a species indicates that it is fossil; prefixed to the name of the author, it denotes that the reference is to the species in a fossil state; prefixed to the name of a genus, it indicates that all species of the genus here recorded are fossil, and the † is therefore not repeated before each name. The abbreviations *l. c.* and *op. cit.* refer only to the place or work quoted immediately before.

When a name and reference are quoted without further statement [*e.g.* *Ankyroderma danielsseni*; **Herouard** (127)], further information can usually be gleaned from the cross-references under **TITLES**.

—*C. frondosa*; DERJUGIN (pl. ii, 90, 91, 148).—*C. grandis* sp. n. Wandel Id. shore; VANEY, 2, Bul. Muséum Paris, 1906, (405): descr.; VANEY, 3 (12).—*C. irregularis* sp. n., 40 m., Carthage B.; VANEY, 2, Bul. Muséum Paris, 1906 (405): descr.; VANEY, 3 (14, pl.).—*C. lactea*; RETZIUS (fig.).—*C. laevigata*, juv., descr.; HEROUARD, 2 (12, pls.).—*C. lateralis* sp. n., various locc., shore to 110 m., Chareot. Expéd.; VANEY, 2, Bul. Muséum Paris, 1906 (405): descr.; VANEY, 3 (15, pl.).—*C. leonina*, descr., ontogeny; HEROUARD, 2 (11, pls.).—*C. plani*; JOHNSTONE (239).—*C. turqueti* sp. n., Biscoe B., 40 m.; VANEY, 2, Bul. Muséum Paris, 1906 (406): descr.; VANEY, 3 (18, pl.).

Eupniastes eximia, plate reproduced by three-colour process after a water-colour sketch from life; MITSUKURI.

Eupyrus scaber; DERJUGIN (149).

Holothuria arguinensis sp. n., Mauritania coast; KOEHLER & VANEY, 3, Bordeaux, Actes soc. linn., 60 (62, pls.).—*H. atra*; HERDMAN, 3 (447).—*H. elleri*, POLARA, 2. — *H. forskali*; DUBOIS: POLARA, 2.—*H. impatiens*; BRIOT, 2.—*H. neillii*; ÖSTERGREN.—*H. nigra*, anat.; MACBRIDE, 2 (561).—*H. poli*; POLARA, 2 and 3: BRIOT, 3: physiol. distinction fr. *H. tubulosa*; BRIOT, 2.—*H. stellati*; LO BIANCO (94, 98).—*H. tubulosa*; BRIOT, 2 and 3: POLARA, 2 and 3: LO BIANCO (94, 98).

Labidoplax discussed; BECHER (506).

†*Lorenzinia apenninica* Gabelli; similar imprints descr., probably *Hol.* aff. *Pelagothuria*; SIMONELLI, (fig.).

Mesothuria, discussed (5), diagnosed (6): *M. bifurcata*, descr. (4, pl.); HEROUARD, 1.—*M. intestinalis*; RETZIUS, (fig.).—*M. murrayi*; HEROUARD, 2, (6).

Myriotrochus rinki; DERJUGIN (149).

Pelagothuria, general discussion; KEMNA: affinities, distrib.: *P. bonriieri* sp. n. N. Atlantic, 31° N. 42° W., surface, descr., anat.; HEROUARD, 3, Bull. Mus. Monaco, 60: BOUVIER, 2, (p. 496, fig. 15).

Peniagone vignoni, descr.; HEROUARD, 2, (8, pls.).

Phyllophorus communis, synonymy: *P. drummondi*; *P. pellucidus*, synonymy; ÖSTERGREN.—*P. urna*; LO BIANCO (98).

(N-9720 m)

Pseudocucumis cucnoti, syn. of *P. mixta*; *P. mixta*, synonymy; ÖSTERGREN.

Psolidium convergens (Her. sub *Cucumaria*), descr., relations to *Scmperia*; HEROUARD, 2, (13, pls.).

Psolus antarcticus, measured; VANEY, 3, (21).—*P. belgicae*, descr.; HEROUARD, 2, (14, pls.).—*P. charcoti* sp. n. 110 m., Biscoe B.; VANEY, 2, Bul. Muséum Paris, 1906, (406): descr.; VANEY, 3, (21, pl.).—*P. fabricii*; DERJUGIN, (94, 149).—*P. granulatus* sp. n., Wandel Id., shore; VANEY, 2, Bul. Muséum Paris, 1906, (407): descr.; VANEY, 3, (23, pls.).—*P. phantapus*; DERJUGIN, (119).—*P. segregatus* sp. n. for *P. squamatus* var. *segregatus* R. Perr.; VANEY, 3, Expéd. antarct. franç. sci. nat. Documents sci. (Paris), 1906, (27 pl.).

Rhabdomolgus ruber; BECHER, (509).

Rhipidothuria racovitzi, descr.; HEROUARD, 2, (7, pl.).

Sigmodota studeri, fragments, HEROUARD, 2, (15).

Synallactes sp., Biscoe B., descr.; VANEY, 3, (5).—*S. carthagei* sp. n., 40 m., Carthage B.; VANEY, 2, Bul. Muséum Paris, 1906 (403): descr.; VANEY, 3, (3, pl.).

Synallactinae, tentacular ampullae; HEROUARD, 2, (7).

Synapta sp.; BOCHENEK—*S. buski*; RETZIUS, (fig.).—*S. digitata*; BECHER, (508).—*S. inhaerens*; BECHER, (509); WOODLAND, (556): in plankton, LO BIANCO, (85).—*S. minuta* sp. n. Helgoland; BECHER, Zool. Anz., Leipzig, 30, (505).

Thyone fusus; WOODLAND, (550).—*T. portlocki*; ÖSTERGREN.—*T. scotiae* sp. n. (400, figs.), *T. turricata* sp. n. (401, fig.), S. Orkneys, shore; VANEY, 1, Bul. Muséum Paris, 1906.

Thyonidium commune, *T. dubeni*; ÖSTERGREN.

Trochostoma antarcticum, descr.; HEROUARD, 2, (15).

Zygothuria, rejected; HEROUARD, 2, (5).

C. ECHINOIDEA.

Taxonomic value of pedicellariae, views of Mortensen discussed; proposed classification of recent *Ech.*: Subclass I.

Cidariformia; II. *Diadematiiformia*, Ord. i. *Regularia*, sub-ord. 1. *Diadematina*, 2. *Saleniina*, 3. *Arbaeiina*, 4. *Echiniina*; Ord. ii. *Irregularia*, sub-ord. 1. *Clypeastroidea*, 2. *Spatangoidea*; DOEDERLEIN, 2, (65-87).

Echinoidea in 3 orders: *Endocyclica* *Clypeastroidea*, *Spatangoidea*; MACBRIDE 2 (529).

Abatus maintained; LAMBERT 8 (101).

†*Acanthechinopsis* gen. n. of *Diploporidiidae* with genotype *A. lumei* sp. n., Cenomanian, Sinui (wrongly called *A. barroni* p. 227); GREGORY, Geol. Mag. London, n. ser., dec. V, 3 (219, pl.)

Acanthocidaris, discussed (96), diagnosed (102); DOEDERLEIN, 2.

†*Aeropeltis acquituberculata*; PERVINQUIÈRE: GENTIL & LEMOINE (332, 338, pl.).

†*Aerosalenia*, restricted with *A. spinosa* as type (275): *A. angularis* discussed (296): *A. boloniensis*, referred to *Plesiosalenia* (275), restricted to Cotteau, pl. 253, ff. 1, 2, [not the type]; VALETTE, 2. — *A. quebhardi* sp. n. Bathonian, St. Cézaire, Alpes Marit.; LAMBERT & SAVIN, Nice, Ann. Soc. let. sci. 20 (67, pl.). — *A. incerta* discussed (279): *A. koenigi* (Ag. & Des.) restricted (277): *A. lamareki* referred to *Perisalenia* (279): *A. pseudodecorata*, ambulacrals (296): *A. spinosa*, ambulacrals (296): *A. wiltoni* maintained (279); VALETTE 2.

Aerosaleniidæ gen. nn. vide *Thylosalenia*, *Plesiosalenia*, *Perisalenia*.

Anapesus maintained, with genotype *A. carolinus* a syn. of *Psammecchinus blainvilliei*; LAMBERT 8 (67).

Anthocidaris purpurea (v. Martens sub *Toxocidaris*), descr.; DOEDERLEIN, 1 (520).

†*Aplolampas* gen. n. with genotype *A. monterialensis* (Schauroth sub *Echinolampas*); LAMBERT 1, Nice, Ann. Soc. let. sci. 20 (32).

Aplospatangus sub. gen. nov. of *Schizaster*, with type *S. eurynotus* Ag.; LAMBERT 7, Paris, Mem. Soc. Geol., Paleont. 14 (113, 114).

Aracosoma; SCHURIG (294): diagnosed (121): *A. coriaceum*, descr. (122, fig. pls.); DOEDERLEIN, 2. — *A. fenestratum*; BATHER, 1.

Arbaeia acquituberculata; HENRI & KAYALOF. — *A. dufresnii*; KOEHLER, 4 and 5 (29). — *A. punctulata*; MATHEWS, 2. — *A. pustulosa*; ARIOLA: CHECCHIA, 2 (89): FISCHER 1 and 2: LO BIANCO (92).

Arbaeiina, sub-ord. of *Regularia*, with 1 Fam. *Arbaeiidae*; DOEDERLEIN, 2 (86).

Arbaeiina, — †*A. monilis* (pl. iv): *pallaryi*, descr., measured; CHECCHIA, 2 (90, pl. iv). — †*A. parva*; BELLINI (641).

†*Archaeocidaris*, — *A.* sp. interambulacral plate; SCHURIG (341, pl.). — *A. agassizi*; BARBOUR (pl. ii): REAGAN 2. — *A. norwoodi*, var., plates, radioles, teeth; BEEDE (1268, pls. xiv, xvii A). — *A. pizzulana* sp. n. Upper Carboniferous, Carnic Alps; GORTANI in VINASSA DE REGNY & GORTANI, Roma, Boll. Soc. geol. Ital., 24, (586, pl.): radioles GORTANI 2 (19, fig.). — *A. spinoclarata*, *A. triserrata*; BEEDE and ROGERS (385). — *A. tudifer* [sic]; REAGAN 2. — *A. urei*; COCKIN (526): MACNAIR (375).

Aspidodiadema, discussed (157), *A. nicobaricum*, descr. (163, pls.), var. n. *meijerei* Banda Sea (165); DOEDERLEIN 2, Wiss. Ergeb. D. Tiefsee-Exped., Bd. 5, Lfg. 2.

Asthenosoma, discussed; SCHURIG (294) — *A. fenestratum*, *A. hystrix*; BATHER, 1. — *A. urens* (293), *A. varium* (293-296); SCHURIG.

Astropyga radiata; DOFLEIN (190).

Bolbaster, as s.g. of *Hemiaster*; LAMBERT 8 (101).

†*Bothriolampas*, simple syn. of *Gitolampas*; LAMBERT 8 (96).

Brachybrissus as subgenus of *Schizaster*; LAMBERT 7 (113).

Brisaster as subgenus of *Schizaster*; LAMBERT 7 (112, 114).

Brissoides Klein, maintained; LAMBERT, 5. — †*B. oppenheimi*; LAMBERT 1 (47).

Brissoma as subgenus of *Brissopsis*; LAMBERT 8 (106).

Brissopsis, discussed (104) diagnosed (106); LAMBERT 8. — †*B. borsoni*, *geni*, *intermedius*; BELLINI (641). — †*B. (Zeugaster) lusitanicus* discussed; LAMBERT 8 (109). — *B. luzonica*, descr.; DOEDERLEIN, 2 (258, pls.). — *B. lyrifera*, distrib., descr.; DOEDERLEIN, 2 (256, pls.): incl. *Schizaster incertus* Aradas; CHECCHIA,

2 (93).—†*B. papiolensis* **sp. n.**, Plaisancian, Barcelona (121, pl.): †*B. pliocenicus* **sp. n.** for *Brissopsis genoi* Sism. var. *pliocenica* Botto-Micca 1896 (121); LAMBERT **8**, Paris, Mem. Soc. Geol., Paleont., **14**.

Brissus, diagnosed with genotype *B. ovalis* (Breyn.); LAMBERT **8** (105).—*B. carinatus*, distrib.; DOEDERLEIN, **2** (256): †GREGORY (255)—*B. unicolor*; CHECCHIA, **2** (93).

†*Bunactis*, s.g. of *Clypeaster*, discussed; LAMBERT **1** (23).

Calveria fenestrata; BATHER, **1**.—*C. hystrix*; BATHER, **1** (249, 432): SCHURIG (293).

†*Caratomus avellana*; SCHUMANN & LEONHARD.

†*Cardiaster*,—*C. africanus* **sp. n.** Senonian, Pondoland; WOODS, Cape Town, Ann. S. African Mus., **4** (279, pl.).—*C. ananchytis*; SCHUMANN & LEONHARD: SHEPPARD (241): range, *C. cotteauanus*, *C. eretaccus*, and *C. pygmaeus*, range; SHERBORN (33).

†*Cassidulus umbonatus* **sp. n.**, Senonian, Pondoland; WOODS, Cape Town, Ann. S. African Mus., **4** (277, pl.).

†*Catopygus*,—*C. cylindricus*; JACOB & TOBLER (20).—*C. rohlfsi* **sp. n.**, Upper Cretaceous, Djebel Tar, Tripoli; KRUMBECK (87, pl.).

Centrocidaris, rejected; DOEDERLEIN, **2** (96).

Centrostephanus longispinus, descr., first figd.; CHECCHIA, **2** (87, pl. iv).

Chondrocidaris, discussed (96), diagnosed (102); DOEDERLEIN, **2**.

Cidaridae, general discussion of genera; DOEDERLEIN, **2** (88).

Cidariformia **sub-class. nov.**, 1 Fam. *Cidaridae*; DOEDERLEIN **2** (85).

Cidaris Leske em. Mortensen, discussed (94), name discussed (100), diagnosed (101); DOEDERLEIN, **2**: Vide etiam *Cidarites*.—†*C. sp.*; AHLBURG (55, 83).—†*C. cf. acicularis*; LEMOINE (253).—†*C. alpina* Cott.; GERBER (64).—*C. amulifera*; DOEDERLEIN, **2** (94).—†*C. antarctica*; AMEGHINO (172).—†*C. arenionensis*; BELLINI (641, 649): NELLI: radioles, sp. discussed, synonymy; LAMBERT **8** (62).—*C. baculosa*; DOEDERLEIN, **2** (93, 95).—†*C. beaugeyi*; DOUVILLÉ. —†*C. belgica*; BELLINI (641).—†*C. belle* (N-9720 m)

fourchensis **sp. n.**, radiole, Jurassic, Black Hills, Wyo.; WHITFIELD & HOVEY, Bull. Amer. Mus. Nat. Hist., **22** (391, pl.).—†*C. bowerbanki*; BOSWORTH (414, 416, 575).—*C. canabulata*; DOEDERLEIN, **2** (96).—†*C. cerricornis*; LEMOINE (256).—*C. eidaris*; DOEDERLEIN, **2** (96).

†*Cidaris* [continued],—*C. clarigera*; REMES **1**.—*C. coronata*; WANDERER (512, 514, 516).—*C. dissimilis*; BOSWORTH (416).—*C. florescens*; BELLINI (641).—*C. cf. florigemma* GENTIL & LEMOINE (332, 338).—*C. fragilis*; BELLINI (641).—*C. glandifera* radioles; HAUG & KILIAN (10).—*C. grandaera*; AHLBURG (50, 52).—*C. cf. halaensis*; LEMOINE (255, 256, 257).—*C. hirudo*; BOSWORTH (414).—*C. cf. hirudo*, radioles, Pondoland; WOODS (276).—*C. julianensis*; AMEGHINO (172).—*C. koechlini*; HAUG and KILIAN (12).—*C. cf. koechlini*; LEMOINE (127).—*C. melitensis*; BELLINI (641): Auctt. non Forbes; NELLI. — *C. moorei*?, interambulacrales descr., English and French forms distinguished; LISSAJOUS (11): is *Plegiocidaris*; LAMBERT **6**. — *C. oxyrine*; BELLINI (641).

Cidaris [contd.],—*C. papillata*, distrib.; DOEDERLEIN, **2** (103).—†*C. perornata*; BURNET.—*C. pistillaris*; DOEDERLEIN, **2** (95).

†*Cidaris* [contd.],—*C. rosaria*; BELLINI (641, 649): CHECCHIA **2** (pl. iv).—*C. sceptrifera*; BURNET: REMES **1**.—*C. soldanii*; CHELUSSI (274).—*C. cf. spinigera* (256), *C. striatogranosus*, (253); LEMOINE.—*C. transversa*; AHLBURG (46, 50, 52).—*C. verticillatus*; LEMOINE (256).—*C. vesiculosa*; COMBES (464, fig.); SCHUMANN & LEONHARD.—*C. zeamais*; BELLINI (641, 649).

Cidarites name discussed (100), diagnosed (101), *C. affinis* and *C. metularia*, distrib. (104); DOEDERLEIN, **2** †*C. variolaris*; COMBES (464, fig.)

†*Clypeaster*, general discussion of spp.; LAMBERT **1** (7).—*C. aeclivis*; DOUVILLÉ, R. (105, 133): redefined; LAMBERT **1** (26).—*C. almerai*; **sp. n.**, Tortonian, Barcelona; LAMBERT **8**, Paris, Mem. Soc. Geol., Paleont., **14**, (89, pl.).—*C. alticostatus*; LAMBERT **8** (88).—*C. altus*; BELLINI (641): FRITEL (384, fig.): (Klein-Leske), distinguished, synonymy; LAMBERT **1** (15, 16).—*C. bareinensis* **sp. n.**, Tortonian, Barcelona; LAMBERT **8**, Paris, Mem. Soc. Geol., Paleont., **14**, (84, pl.).—*C. beaumonti*

Sism. non Michelin, perhaps incl. *C. regulus* Laube (12): *C. bunopetalus* made var. of *C. seillae* (25); LAMBERT 1. — *C. calabrus* sp. n., for *C. intermedius* Seg. non. Desm., var. *calabra* Seg.; LAMBERT 1, Nice, Ann. Soc. let. sci. 20, (14): probably syn. of *C. petaliferus*; LAMBERT 8 (87). — *C. campanulatus* (Schloth.), Burdigalian, revived, synonymy; LAMBERT 1 (14). — *C. crassicoatus*; BELLINI (641); NELLI: LAMBERT 1 (24). — *C. crassus*, discussed, descr. (23, 26, 27, pl.): *C. gibbosus* M. de Serres, distinguished and revived (17): *C. grandiflorus* Bronn, discussed and defined with var. *rhabdopetala* (23); LAMBERT 1.

Clypeaster [continued]. — *C. humilis*; HERDMAN 3 (417): †GREGORY (254).

†*Clypeaster* [contd.]. — *C. intermedius*; LOJACONO (6, 19): Desmoulin, distinguished (13), from Vence (52); LAMBERT 1: synonymy; LAMBERT 8 (85, pl.): var. n. *drunensis* Burdigalian, Drôme; LAMBERT 1, Nice, Ann. Soc. let. sci. 20 (14). — *C. laganoides* Ag., em. Michelin, non Airaghi (11), descr. (22, pl.), radiogram (57, pl. x): *C. latirostris*, discussed, synonymy (10): var. n. *inflata*, Burdigalian, Vence (21, pl.): var. n. *italica*, based on Scilla's figure X, 2 (10, 19): var. n. *pedemontana*, Helvetian, based on Airaghi's figure (11): var. n. *subovalis*, Burdigalian, Vence (20, pl.): var. n. *tourrettensis*, Burdigalian, Tourretts, Vence (20, pl.): var. *ventiensis* (18, pl.): var. n. *rin-dobonensis*, Miocene, Gauderndorf, Wien (10, 19); LAMBERT 1, Nice, Ann. Soc. let. sci. 20. — *C. leskei*; DOUVILLÉ, R. (105). — *C. malladai* sp. n., Helvetian, Minorca; LAMBERT 8, Paris, Mem. Soc. Geol., Paleont. 14 (88, pl.). — *C. mariae* sp. n. for *C. lorisatoi* Cott. non. Seg., Miocene, Sardinia; LAMBERT 2, Rev. Paleozool., Paris, 10 (127). — *C. marginatus*; LAMBERT 8 (83): incl. *C. tarbellianus*, distinct from *C. tenuipetalus*; LAMBERT 1 (13). — *C. martini* Desmoulin, distinct from *C. martini* Michelin (11), synonymy, descr. (21); LAMBERT 1. — *C. michelotti* Ag. em. Michelin; LAMBERT 1 (12), and 8 (86). — *C. oppenheimi* sp. n., Burdigalian, Vence; LAMBERT 1, Nice, Ann. Soc. let. sci. 20 (27, pl.). — *C. partschii*; VADASZ (331). — *C. parrituberculatus*; DOUVILLÉ, R. (105, 133). — *C.*

pentadactylus Gauth., probably var. of *C. grandiflorus* (26): *C. placenta* (23, 28); LAMBERT 1. — *C. portentosus*; LOJACONO (6, 19). — *C. pyramidalis*; op. cit. (6, 18): NOSZKY (466). — *C. redii*; NOSZKY (468). — *C. rhabdopetalus* maintained (25) but see *C. grandiflorus*; LAMBERT 1. — *C. seillae* discussed; LAMBERT 8 (121): (23), defined, with var. *erassiesta* nov., *bunopetala* (25), *tauriniensis* nov. (26); LAMBERT 1, Nice, Ann. Soc. let. sci. 20. — *C. scutellatus*, discussed, descr. from Barcelona; LAMBERT 8 (81, pl.). — *C. scutiforme*; GREGORY (254). — *C. tenuipetalus* Seg. revived; LAMBERT 1 (13).

Clypeastroidea, sub-ord. of *Irregularia*, with Fam. 1. *Fibulariidae*, 2. *Clypeastriidae*, 3. *Laganidae*, 4. *Scutellidae*; DOEDERLEIN, 2 (87).

†*Clypeus ploti* (= *C. sinuatus*); FRITEL (127, fig.).

†*Codiopsis*, restricted with genotype *C. doma* (289): *C. alpina* distinguished from *C. lorini* and made type of *Pseudocodiopsis* (290): *C. arnaudi* referred to *Pseudocodiopsis* (291): *C. jaccardi* (304): *C. lorini*, ambulacra (303); VALETTE 2.

Coelopleurus floridanus, Agulhas bank, pedicellariae, spicules (181, pls.): *C. maillardi*, pedicellariae, spicules (182, pls.); DOEDERLEIN, 2.

†*Collyrites elliptica*, distinguished from *C. dorsalis*; PETITCLERC (66).

†*Conoclypeus plagiosomus*?; NOSZKY (466).

†*Conulus*, vide etiam *Echinoconus* et *Galerites*. — *C. albogalerus*; TREACHER & WHITE: range, synonymy; SHERBORN. — *C. castaneus*, *globulus*, *orbignyanus*, et *subrotundus*: range and synonymy; SHERBORN.

†*Coptosoma abbatei* (223): *C. gunne-hensis* sp. n. Cenomanian?, Sinai (224, pl.); GREGORY, Geol. Mag. London, n. ser., dec. v, 3.

Cyanosoma urens; SCHURIG (293).

†*Cypholampas sectio* n. of *Echinolampas*, with type *E. stelliferus*; LAMBERT 1 Nice Ann. Soc. let. sci. 20 (33).

†*Cyphopygus* Pomel as subgenus of *Goniopygus*, made gen. n., with *C. major* and *C. eoquandi*; VALETTE 2, Auxerre, Bul. soc. sci. hist. nat. Yonne 59 (280).

†*Cyphosoma abbatei*, reld. to *Coptosoma* (223): *C. beadnetti*, **sp. n.** Cenomanian or Turonian, Abu Roash, Egypt (221 pl.); GREGORY, Geol. Mag. London, n. ser., dec. v, 3.

Cystechinus? **sp.**, pedicellariae; DOEDERLEIN, 2 (242, fig.).

Dermatodiadema (158): *D. antillarum*, S. of Canaries (158): *D. indicum*, descr. (158, pls.): *D. molle*, descr. (160, pls.); DOEDERLEIN, 2.

Diadema, —†*D. desori*; BELLINI (641). —*D. saxatile*; DOEDERLEIN, 2 (166, fig.). —*D. setosum*; DOEFLEIN (190).

Diadematiidae, **gen. n.** vide *Pseudocodiopsis*; VALETTE 2.

Diadematiiformia **sub-class nov.**, Ord. i. *Regularia*, ii. *Irregularia*; DOEDERLEIN, 2 (85).

Diadematina, sub-ord. of *Regularia*, with Tribus 1. *Streptosomata*, 2. *Stereosomata*; DOEDERLEIN, 2 (86).

†*Diademopsis* discussed (282, 301, 311), defined with list of spp. (286): *D. acquituberculata* (300); VALETTE 2. —*D. serialis*; loc. cit.: FRITEL (239, fig.).

Diplodetus as section of *Brissopsis*; LAMBERT 8 (106).

†*Diplopodia* restricted with type *D. subangularis* (292): *D. aroriensis* distinguished from *D. subangularis* (307): *D. bipunctata* distinguished (306); VALETTE 2. —*D. bronquiarti*; JACOB & TOBLER (20). —*D. cotteaui* **sp. n.** for *D. bipunctata* from Laignes, Cotteau, Pal. franc. pl. 340 (307): *D. courtaulti* (308): *D. drogiaca* (307): *D. pentagona*, confused by Cotteau with *Pseudodiadema depressum* (305): *D. picteti* (308): *D. raulini*, ambulacrals (308); VALETTE 2, Auxerre, Bul. soc. sci. Yonne, 59. —*D. scamensis*, reld. to *Acanthechinopsis*; GREGORY (220). —*D. variolaris*; VALETTE 2 (309).

Diplopodiidae, **genn. n.** vide *Acanthechinopsis*, *Pseudoplopodia*.

Dipneustes, diagnosed; LAMBERT 7 (113).

Discoedaris discussed (97), diagnosed (102); DOEDERLEIN, 2.

†*Discoidea* (vel *Discoidea*), —*D. cylindrica*; JUKES-BROWNE (511): WOLLEMAN: et var.; BOSWORTH (414, 416, 575). —*D. decoratus*; JACOB & TOBLER (20). —*D. dixonii*; range; SHERBORN (32).

—*D. nachtigali* **sp. n.**, Upper Cretaceous, Djebel Tar, Tripoli; KRUMBECK, Palaeontographica, Stuttgart, 53 (86, pl.). —*D. peroni*; DOUVILLÉ, R. (77). —*D. subunculus*; BOSWORTH (575).

Ditremaster, syn. of *Opissaster*; LAMBERT 8 (102).

Dorocidaris discussed; VALETTE 2 (283): A. Ag. em. Mortensen, discussed (92), name discussed (100), diagnosed (101); DOEDERLEIN, 2. —†*D. balearis* **sp. n.**, Helvetian, Minorca; LAMBERT 8, Paris, Mem. Soc. Geol., Palaeont., 14, (65, pl.). —*D. papillata*; CHECCHIA, 2 (87, & †pl. iv): LO BIANCO (92). —*D. tiara*; DOEDERLEIN, 2 (94).

†*Echinanthopsis* discussed; LAMBERT 8 (98).

Echinanthus discussed; loc. cit. —†*E. corsicus*; LAMBERT 8 (99): of Cotteau is *Tristomanthus*; LAMBERT 1 (42).

†*Echinarachnius mirabilis*; TOKUNAGA.

Echinidae, discussed (202), key to genera (203); DOEDERLEIN, 2: **trib. nov.** *Noctlinginae*; LAMBERT in BOULE & THIÉVENIN (13): **gen. n.** vide *Protocentronus*.

Echinina, sub-ord. of *Regularia*, with Famm. 1. *Stomopneustidae*, 2. *Temnopleuridae*, 3. *Echinidae*, 4. *Echinometridae*, 5. *Toxopneustidae*; DOEDERLEIN, 2 (86).

Echininae discussed; DOEDERLEIN, 2 (202).

†*Echinobrissus*, vide etiam *Nucleolites*, —*E. clunicularis*, distrib.; PETITCLERC (67): Callovian, Doubs apud Petitclerc = *Nucleolites latiporus*; LAMBERT 3. —*E. humei* **sp. n.** cum varr. *alta* et *subrotunda*, Turonian, E. Sinai; FOURTAU, Cairo, Bull. Inst. Egypt, (ser. 4), 6 (148, pl.).

Echinocardium discussed (110) and defined with genotype *E. atropos* (113) synn. *Moera*, *Moiria*; LAMBERT 7. —*E. cordatum*; CHECCHIA, 2 (93). —†*E. depressum*, discussed; LAMBERT 1 (54). —*E. flavesceus*, distrib.; DOEDERLEIN, 2 (268). —†*E. aff. intermedium*; VADASZ (333). —*E. mediterraneum*, descr., measured, first figd.; CHECCHIA, 2 (94, pl. iv) —†*E. oppenheimi* **sp. n.** for *E. gibbosum* Oppenh. non. Gray [? Ag.], Burdigalian, Schio; LAMBERT 1, Nice, Ann. Soc. let. sci. 20, (55).

†*Echinoconus*, vide etiam *Conulus* et *Galerites*.—*E. cairol*i; DOUVILLÉ, R. (77, 210, pl.).—*E. orbigny*anus; BRYDNE (75, 127).—*E. roemer*i; SCHUMANN & LEONHARD. — *E. vulgar*is; BRYDNE, (129).

Echinocorythidae, gen. nondescr.; DE MEIJERE: gen. n. vide *Meijerea*.

Echinocory[th]inae, vide *Paronaster*.

†*Echinocorys*.—*E. concava*; AIRAGHI (110).—*E. fakhyri* sp. n., Danian, Egypt; FOURTAU, Cairo, Bull. Inst. Egypt, ser. 4, 6 (150, pl.).—*E. granul*osus?; REMÉŠ 1.—*E. scutatus*; BURNET: et varr.; TREACHER & WHITE, WHITE & TREACHER: range, synonymy; SHERBORN (31).—*E. tenuituberculatus*; DOUVILLÉ, R. (76, 170).—*E. vulgar*is, BRYDNE (129): DOUVILLÉ, R. (173): SHEPPARD.

Echinoerepis? sp., descr., pedicellariae; DOEDERLEIN, 2 (269, pls.).

Echinocyamus pusillus; CHECCHIA, 2 (93): JOHNSTONE (239): LO BIANCO (97, 98): †DOLLFUS (370): distrib.; DOEDERLEIN, 2 (234).—*E. scaber*, distrib., notes; op. cit. (235, pl.).—†*E. studeri*; BELLINI (641).

†*Echinocyphus difficilis*; BOSWORTH (414, 575).

Echinodiscus Breyn. 1732, genotype *E. orbicularis*, discussed, limited; LAMBERT 8 (124).

Echinolampas, discussed; DOEDERLEIN, 2 (240): discussed (28), defined with sections *Aplolampas*, *Miolampas*, *Merolampas*, *Cypholampas*, *Macrolampas*, *Scutolampas*, *Isolampas*, *Palaeolampas* (33); LAMBERT 1.

†*Echinolampas*, — *E. africanus*, measured; GREGORY (251).—*E. angulatus*; LAMBERT 8 (94): NELLI: Alessandri non Merian, discussed; Merian's sp. is *Progonolampas*; LAMBERT 1 (35).—*E. atrophus*, sp. n., Helvetian, Minorca; LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14, (94, pl.).—*E. barcinensis* sp. n., Burdigalian, Portugal, based on *E. hemisphaericus* var. *maxima* De Lor.; LAMBERT 1, Nice, Ann. Soc. let. sci. 20, (40): Barcelona, is here distinguished from de Loriol's var. *maxima*; LAMBERT 8 (91, fig.).—*E. blainvillei* (35): *E. cotteau*i sp. n. for *E. heberti* Cott., Eocene St. Palais (40); LAMBERT 1, Nice, Ann. Soc. let. sci. 20.—

E. feiranensis sp. n., Miocene?, Sinai (252, pl.): *E. fraasi*, measured; GREGORY Geol. Mag., London, n. ser., dec. V, 3 (252).—*E. francei* Desm. non Desor. nec Sism., descr.; LAMBERT 1 (38, pl.).—*E. globulus*, measurements; GREGORY (251).—*E. guehardi* sp. n., Burdigalian, Vence; LAMBERT 1, Nice, Ann. Soc. let. sci. 20, (36, pl.).—*E. heberti* (Cott. sub *Pygaulus*) restored for *E. francei* Desor non Desmoulin; op. cit. (40).—*E. hemisphaericus* discussed; LAMBERT 1 (39) and 8 (91, fig.): var. *linkii*, incl. var. *rhodensis*, measured; VADASZ (331).—*E. aff. insignis*; GREGORY (253).—*E. italicus* sp. n. for *E. hemisphaericus* Manzoni non Lam.; LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14, (93).

Echinolampas [continued].—*E. koenigi*, synonymy; LAMBERT 1 (28).—†*E. laurillard*i, mere var. of *E. hemisphaericus*; LAMBERT 8 (92).—*E. ovata*, measured; DOEDERLEIN 2 (240).—†*E. plagiosomus*; NELLI: discussed; LAMBERT 1 (38, pl.).—*E. richardi*; †LAMBERT 8 (92): distinguished and measured; DOEDERLEIN 2 (240).—†*E. savini* sp. n., Burdigalian of Provence, also young; LAMBERT 1, Nice, Ann. Soc. let. sci. 20, (34, pl.).—†*E. scutiformis*; LOJACONO (6, 19): discussed; LAMBERT 1 (37).

Echinometra lucunter; †GREGORY (253): DOEDERLEIN, 2 (233). — *E. mathaei*; loc. cit.

†*Echinopedina ameghinoi*; AMEGHINO (172).

Echinothrix, radioles discussed (166, fig.): *E. calamaris* and *E. diadema*, pedicellaria (168, fig.); DOEDERLEIN, 2.

†*Echinothuria floris*; SCHURIG (293).

Echinothuridae; DOEDERLEIN, 2 (120).

Echinotrochus Pomel non Van Phelsum, syn. of *Rotula*; LAMBERT 8 (126).

Echinus, discussed (203, 210); DOEDERLEIN, 2.—*E. acutus*; CUENOT: CHECCHIA, 2 (89): distrib.; DOEDERLEIN, 2 (212)—*E. affinis*, distrib.; loc. cit.—†*E. batheri* sp. n., Pleistocene, Ficarazzi, Sicily: CHECCHIA 2 (pl. iv). — *E. brevispinosus*; FISCHER 1 and 2. — *E. cidaris*; DOEDERLEIN, 2 (99).—*E. diadema*, discussed; KOEHLER 5 (38).—†*E. duei*i is *Schizechinus*; LAMBERT 8 (74).—*E. elegans*, distrib.; DOEDERLEIN, 2 (211).—*E. esculentus*; JOHNSTONE (241): anat.; MACBRIDE 2 (504).—*E. gilchristi*,

distrib. (213, pls.), descr. (215), var. *hirsuta* Agulhas current, descr. (olium *E. hirsutus* Doed.) (213); DOEDERLEIN, 2.—†*E. hungaricus*; VADASZ (329).—*E. magellanicus*; KOEHLER 4: (30), discussed (35); KOEHLER 5: vide etiam *Notechinus*.—*E. margaritaceus*; KOEHLER 4: Lam., as interpreted by A. Agassiz, redescrib. from Booth-Wandel Id., Mortensen's views discussed; KOEHLER 5 (30, pls.): vide etiam *Sterechinus*.—*E. melo*; CHECCHIA, 2 (89).—*E. microtuberculatus*; DRAGO: DRIESCH 2: HERBST 1: LO BIANCO (92): PETER: vide etiam sub *Parechinus* et *Psammechinus*.—*E. miliaris*; JOHNSTONE (239, 241).—*E. variegatus* Lam., the type is a *Tripneustes*; LAMBERT 8 (66).—†*E. verruculatus* (?); GREGORY (253).

†*Encope tatetlaensis* sp. n. Pliocene, Tuxtepec division, Sta. Maria Tatetla, Mexico; BOESE 1, Mexico, Bol. Inst. geol., 22, 1906, (71, pls. vi, vii), and 2 (5).

†*Epiaster*, —*E. gibbus*; BRYDONE (127): range; SHERBORN (32).—*E. nutrix*; LAMBERT in BOULE & THÉVENIN (10, pl. ii).—*E. ricordeau*; JACOB & TOBLER (19).

Eupatagus Ag., not to be corrected to *Euspatagus*; LAMBERT 5.

†*Euspatagus croizieri*; LEMOINE (256).

Faorina discussed; LAMBERT 8 (101).

†*Fibularia acuta*; TOKUNAGA.—†*F. volva*; GREGORY (254).

†*Galerites*,—vide etiam *Conulus* et *Echinoconus*,—*G. globulus*; BURNET.—*G. subuculus*; COMBES (464).—*G. thomasi*; GREGORY (226).

†*Galerolampas* discussed; LAMBERT 8 (95).

Genocidaris (189): *G. maculata* descr. (198, pls.); DOEDERLEIN, 2.

†*Giropygus* Gauthier, rejected; LAMBERT in MEUNIER 2 (235).

†*Gitolampas* discussed; LAMBERT 8 (95).—*G. tunetana* (Gauthier sub *Pliolampas*); LAMBERT in MEUNIER 2 (234).

Glyphocyphinae, vide *Temnechinae*.

Glyptocidaris crenularis (A. Ag. sub *Phymosoma*), descr.; DOEDERLEIN, 1 (520).

Goniocidaris discussed (97), diagnosed (102); DOEDERLEIN, 2.—*G. jorgensis*; AMEGHINO (172).

†*Goniopygus*, restricted with *G. menardi* as type (280): *G. intricatus* discussed and referred to *Polygoniopygus* (281): *G. peltatus* (299); VALETTE 2.

†*Gregoryaster* gen. n. of *Spatangidae*, for *Schizaster grateloupi* Sism., *Pericosmus coranguinum* Greg., and *P. arpadis* Pavay; LAMBERT 1. Nice, Ann. Soc. let. sci. 20 (45).

†*Guettaria rocardi*; LEMOINE (224, 225, 227).

Gymnocidaris (100), diagnosed (101); DOEDERLEIN, 2.

Gymnopatagus, diagnosed (266): *G. valdiviae*, descr. (266, pls.); DOEDERLEIN, 2.

†*Hagenowia rostrata*, range; SHERBORN (33).

Heliophora Ag., limited, and distinguished from *Rotuloidea*; LAMBERT, 8 (126).

Hemiaster discussed; LAMBERT 8 (101).—†*H.* sp.; LAMBERT in BOULE & THÉVENIN (11, pl. ii).—†*H. africanus*, *battensis* [sic], et *blanckenhorni*; GREGORY (248).—*H. cavernosus*, incl. *H. gallegosensis* and *Tripylus excavatus*, *pedicellariae*; DOEDERLEIN, 2 (248, pl.).

†*Hemiaster* [continued],—*H. charginensis*, Tripoli; KRUMBECK (90, pl.).—*H. chaureneti*; GREGORY (248).—*H. aff. cristatus*; BURCKHARDT (211, pl.).—*H. dalli*, referred to *Opissaster*; FOURTAU, (143).—*H. forbesi* Baily, descr.; WOODS (280, pl.).—*H. fourneli* (247): *H. jullieni* (248); GREGORY.—*H. kalksburgensis*; VADASZ (333, pl.).—*H. minimus*; JACOB & TOBLER (22): range; SHERBORN (33).—*H. nicaisei*; GREGORY (248).—*H. numidicus*; DOUVILLÉ, R. (77).—*H. phrygus*; LEMOINE (206).—*H. pseudo-fourneli*, measured; GREGORY (247).—*H. pullus*; BURCKHARDT (211, pl.).—*H. saadensis*; GREGORY (248).—*H. sudanensis*, age discussed; KRUMBECK (91, 134).

Hemiaster [contd.],—*H. zonatus*? Rockall, *pedicellariae*; DOEDERLEIN, 2 (247, pl.).

Hemicidaridae, genn. nn. vide *Polygoniopygus*, *Cyphopygus*; VALETTE 2.

†*Hemicidaris crenularis*, incl. *Hemiopygus tuberculosus*, as young; SÉGUIN 1 (figs.), and 2.

†*Hemicodiopsis* rejected; VALETTE 2 (291).

†*Hemiheliopsis* **gen. n.** of *Scutellidae Rotulinae* (127) with genotype *H. fonti* **sp. n.** Pleiocene, El Rostel, Rio d'Oro, W. Africa. (128, pl.); LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14.

†*Hemipatagus* maintained; LAMBERT 1 (48).—*H. cf. hofmanni*; NOSZKY (468).

Hemipodina discussed (282, 301, 311), defined with list of spp. (287): †*H. gigniacensis*, ambulacra (302); †*H. icauensis*, ambulacra (301); †*H. letteroni* (302); VALETTE 2.—†*H. mairei*; Maire.—*H. mirabilis*, descr., incl. *H. indica* Meij.; DOEDERLEIN, 2 (174, pls.).

†*Hemipygus tuberosus* is young of *Hemicidaris crenularis*; SÉGUIN (figs.) 1 and 2.

†*Heterobrissus formae*; BELLINI (649).

†*Heterocentrotus mammillatus*; GREGORY (253).

†*Heteroclypeus* is syn. of *Hypso-clypeus* (32): *H. hemisphaericus* Greg. is an *Echinolampas*, probably the same as *Hypso-clypeus doma* or *H. oranensis* (31, 38): *H. subpentagonalis* Greg. is a *Hypso-clypeus* (31); LAMBERT 1.

†*Heterodiadema bigranulatum* **sp. n.**, Cenomanian, Sinai; GREGORY, Geol. Mag. London, n. ser., dec. V, 3, (218, pl.).—†*H. libyenum*, PERVINQUIÈRE.

†*Hipponoe parkinsoni*; BELLINI (641).

Histocidaris discussed (99), diagnosed (103): *H. elegans*, descr. (117, pls.); DOEDERLEIN, 2.

†*Holaster*,—*H. carinatus*, *H. laevis*; WOLLEMAN.—*H. perezi*; JACOB & TOBLER (20).—*H. placenta*; BURNET: range; SHERBORN (33).—*H. planus*; BURNET: CLAYDEN (142, pl.): large, 90 × 61 × 53 mm.; PÉROT: range; SHERBORN (33).—*H. subglobosus*; BOSWORTH (413): JUKES-BROWNE (509): WOLLEMAN.—*H. sylvaticus*; DOUVILLÉ, R. (78).—*H. treecensis*; BOSWORTH (416): JUKES-BROWNE (509).

Holopneustes, syn. of *Hemiaster* s. str.; LAMBERT (102).

†*Holactypus*, — *H. cenomanensis*, measured; GREGORY (225).—*H. coral-linus*; WANDERFR (512, 514, 518).—*H. depressus*; PETITCLERC (68).—*H. jullieni*, measured (225): *H. larteti* (226): *H.*

turonensis, perhaps young of *H. crassus* (225); GREGORY.

Hygrosoma discussed; SCHURIG (294): diagnosed (136) spp. discussed (137), comparative measurements of spp. (144); DOEDERLEIN, 2.—*H. aethiopicum*, diagnosed, descr.; op. cit. (141, pls.): diagnosed (296), described (299); SCHURIG.—*H. hoplacanthum*, diagnosed, descr. (138, pls.): *H. luculentum* (121), diagnosed, descr. (143, pls.); DOEDERLEIN, 2.

†*Hyechinus patagonensis*; AMEGHINO (137, 169).

†*Hyssaster* aff. *convexus*; DOUVILLÉ, R. (77).

Hyssiechinus discussed; DOEDERLEIN, 2 (187–188).

†*Hypso-clypeus* discussed; LAMBERT 1 (30).

Hypsopatagus not to be corrected to *Hypsospatangus*; LAMBERT 5.

†*Hypsospatangus peroni*; NELLI.

†*Iheringina patagonensis*; AMEGHINO (137–169).

†*Infulaster boulei*; LEMOINE (227).—†*I. excentricus*; BURNET: range; SHERBORN (32).

Irregularia, order of *Diademati-formia*, with sub-ordd. *Clypeastroidea*, *Spatangoidea*; DOEDERLEIN, 2 (87).

†*Isechinus praeursor*; AMEGHINO (137, 169).

†*Isolampas* Lambert, section of *Echinolampas*, with type *E. goujoni*; LAMBERT 1 (33).

Kleinia as subgenus of *Brissopsis*; LAMBERT 8 (107).

†*Koilospatangus* **gen. n.** of *Spatangidae* for *Perispatangus* Fourtau 1905, non *Peripatagus* Koehler 1895; LAMBERT 5 Rev. paleozool., Paris, 10, (185).

Laganum, — †*L. decagonalis*; TOKUNAGA.—*L. depressus*; HERDMAN 3 (448): †GREGORY (254).

†*Lampadaster grandidieri*; LEMOINE (225, 227).

†*Lampadocorys dallagoi* (Airaghi sub *Stegaster*); AIRAGHI (110, pl. iv).

Lamproechinus, diagnosed (189): *L. nitidus*, descr. (190, pls.); DOEDERLEIN, 2.

Leiocidaris, syn. of *Phyllacanthus*; DOEDERLEIN, 2 (100).—†*L. sismondai*, radioles, distinction from *Cidaris arenionensis*; LAMBERT 1 (3), and 8 (65).

†*Leptechinus* Törnquist [i.e. Törnquist] is syn. of *Perischodomus*; THIÉRY 1: is *Törnquistellus*; THIÉRY 2 and BATHER 2.

Leucaster, syn. of *Hemiaster* s. str.; LAMBERT 8 (102).

Linthia, no constant difference from *Hemiaster*; GREGORY (249).

†*Linthia*,—*L. conica* mut. n. *engolismensis*, Turonian of Charentes, olim *L. oblonga* Auctt. (170, pl.): *L. duncani* sp. n. Cenomanian? Wady Budra, Sinai, ? = *L. oblonga* d'Orb. pars. (162, pl.); FOURTAU, Cairo, Bull. Inst. Egypt (ser. 4), 6. —*L. gaudryi*; AMEGHINO (137, 169).—*L. insolita* sp. n., Lower Turonian, Batna, Algeria; FOURTAU, Cairo, Bull. Inst. Egypt, ser. 4, 6 (168, pl.).—*L. joannis bohmi*; AMEGHINO (51).—*L. locardi*: *L. cf. lorioli*; NELLI.—*L. oblonga*, variations discussed, compared with *Hemiaster*; GREGORY (249): d'Orb., cotypes descr., species imaginary; FOURTAU (158).—*L. roachensis*?; GREGORY (248).

Linthia [contd.],—*L. rotundata* sp. n. Chatham Id., 20 M.; DOEDERLEIN, 2, Wiss. Ergeb. D. Tiefsee-Exped. Bd. 5, Lfg. 2 Jena (249, pls.).—†*L. verneuilli* var. n. *batensis*, Turonian, Algeria, olim *L. oblonga* Auctt.; FOURTAU, Cairo, Bull. Inst. Egypt, ser. 4, 6 (165, pl.).

Lovenia elongata; †GREGORY (255): pedicellariae; DOEDERLEIN, 2 (265, pl.).

Loxechinus gibbosus, is *Toxocidaris*; DOEDERLEIN, 2 (202).

†*Lysechinus*, discussed; DOEDERLEIN, 2 (183).

Lytchinus syn. of *Anapesus*; LAMBERT 8 (68).

†*Macrolampas* sectio n. of *Echinolampas*, with type *E. hemisphaericus*; LAMBERT 1, Nice, Ann. Soc. let. sci. 20 (33).

Maretia elevata sp. n., Wituland, E. Africa, 693 M.; DOEDERLEIN, 2, Wiss. Ergeb. D. Tiefsee-Exped. Bd. 5, Lfg. 2, Jena (263, pls.).—†*M. guebbardi*: †*M. ocellata*, discussed, is *Hemipatagus*; LAMBERT 1 (47).—†*M. omalusi* Galeotti = *M. grignonensis* (Desmar.) Cott.; LERICHE (402).

Meijerea gen. n. of *Ananehytidæ* [*Echinocorytidæ*] (242) with genotype *M. humilis* (Meij. sub *Phrissocystis*) descr. (243, pls.); DOEDERLEIN, 2.

†*Memuthiaster cotteani*; LEMOINE (227).

Meoma diagnosed; LAMBERT 8 (106).

†*Merolampas* Pomel, defined as section of *Echinolampas*; LAMBERT 1 (33).

Metalia diagnosed; LAMBERT 8 (106).

†*Micraster*,—*M. coranguinum*; BRYDENE (127, 129): range; SHERBORN (32).—*M. corboris*; BURNET: range; SHERBORN (32).—*M. cortestudinarium*; BURNET: CLAYDEN (142, pl.): range; SHERBORN (32).—*M. leskei*; BURNET: range; SHERBORN (32).—*M. meunieri*; LEMOINE (227).—*M. praeursor*, range; SHERBORN (32).

†*Micropedina bipatellis* sp. n., Cenomanian, Sinai; GREGORY, Geol. Mag. London, n. ser., dec. v, 3 (220, pl.).

Micropyga tuberculata, descr.; DOEDERLEIN, 2 (169, pls.).

†*Milletia fischeuri* (Pomel sub *Plesiolampas*) descr. from Barcelona; LAMBERT 8 (95, pl.).

†*Milnia* Haime et *Milnia* Pomel rejected; VALETTE 2 (296).

†*Miolampas* Pomel, defined as section of *Echinolampas*; LAMBERT 1 (33).

Miotoxaster discussed; FOURTAU (141).

†*Moira guebbardi* sp. n., Burdigalian, Vence; LAMBERT 1, Nice, Ann. Soc. let. sci. 20, (53, fig.).

Moiropsis diagnosed; LAMBERT 7 (113)

†*Monodiadema cotteani*; PERVINQUIÈRE.

†*Monophora darcini*; AMEGHINO (169, 255, 265, 266).

Mortensenia oblonga, distrib., relations to *Echinometra mahaiei*, seu *lucunter*; DOEDERLEIN, 2 (233, pl.).

Neolampas rostellata, distrib., pedicellariae; DOEDERLEIN, 2 (241, pl.).

†*Noetlingia* discussed (13): *N. boulei* sp. n. Upper Senonian, E. Madagascar (11, pl. ii); LAMBERT in BOULE & THÉVENIN, Ann. Paléont., Paris, 1.—*N. monteili*, age discussed; KRUMBECK (134).

Noetlinginae, trib. nov. of *Echinidae*; LAMBERT in BOULE & THÉVENIN (13).

Notechinus, diagnosed (226), *N. magellanicus* (217), descr. (227, pls.) var. *n. hassleri* (229), var. *n. novae-amsterdamiae* (229); DOEDERLEIN, 2.

†*Nucleolites* [vide etiam *Echinobrisus*], — *N. daglensis*, measured (246): *N. gibbosa* (246): *N. meslei*, measured (247): *N. waltheri* (246); GREGORY.

†*Offaster pilula*, range; SHERBORN (33).

Oligophyma syn. of *Anapesus*; LAMBERT 8 (67).

Opechinus; DOEDERLEIN, 2 (189).

†*Opissaster* discussed; LAMBERT 8 (102).—*O. almerai* sp. n., Burdigalian, Vence; LAMBERT 1, Nice, Ann. Soc. let. sci. 20, (43): descr. fr. Barcelona and Sardinia; LAMBERT 8 (100, pls.).—*O. morgani* is a *Hemiasaster*; op. cit. (103).

Orechinus (189), diagnosed (196), *O. monolini*, descr. (196, pls.); DOEDERLEIN, 2.

†*Orthopsis* discussed; VALETTE 2 (288).—*O. cf. miliaris*; PARONA.—*O. ruppelii*, incl. *O. zumoffeni*, apical system; FOURTAU, (154, pl.).

†*Ora canalifera* Gray, vide *Schizaster bononiensis*.

Palaeolampas, discussed (236); DOEDERLEIN, 2: Bell, defined as section of *Echinolampas*, with type *E. hoffmanni*; LAMBERT 1 (33).—*P. chuni*, descr. (239, pl.) measured (241): *P. crassa*, descr. (236, pl.) measured (241): *P. sumatrana*, descr. (238, pl.) measured (241); DOEDERLEIN, 2.

Palaeopneustes niasicus, descr.; DOEDERLEIN, 2 (245, pls.).

Paracentrotus, diagnosed (207): *P. agulhensis*, descr. (207, pls.): *P. gaimardi* (209); DOEDERLEIN, 2.—*P. lividus*; CUENOT: DELAGE, 2: DOEDERLEIN, 2 (209): KIERNIK: polarity of ovum; GARBOWSKI: vide etiam sub *Strongylocentrotus*.

Paraster as subgenus of *Schizaster*; LAMBERT 8 (112).

Parechininae, discussed; DOEDERLEIN, 2 (202).

Parachinus is syn. of *Psammechinus* (q. v.); LAMBERT 8 (67).—*P. angulosus*, is *Protocentrotus*; DOEDERLEIN, 2 (202).—*P. microtuberculatus*; CUENOT: KIERNIK: vide etiam sub *Echinus* et *Psammechinus*.

†*Paronaster* gen. n. (107) with genotype *P. cupuliformis* sp. n. (108, pl. iv), Senonian of Novale, Venetia; AIRAGHI, Milano, Atti Soc. Ital. sc. nat. 45.

†*Peltastes studeri*; JACOB & TOBLER (20).

†*Pericosmus*,—*P. cf. callosus*; NELLI: *P. edwardsii*; BELLINI (641): *P. latus*; LAMBERT 8 (104): Ag., descr., distinguished from *Schizaster grateloupi*; LAMBERT 1 (43, pl.).—*P. orbigny*; BELLINI (641).—*P. pedemontanus*; op. cit. (649): NELLI.—*P. cf. spatangoides*; NELLI.

†*Perisalenia* gen. n. of *Acrosaleniiidae*, for *Acrosalenia gauthieri*, *lowei*, *lamarchi*, *lamberti*, *pulchella*, *bradfordensis*, *libyca* (276): *P. cotteau* sp. n. for *Acrosalenia boloniensis* Cotteau, pl. 253, ff. 3, 4 (278): *P. lamberti*, ambulacrales (297); VALETTE 2, Auxerre, Bul. soc. sci. Yonne, 59.

†*Perischodomus* vide *Tornquistellus*.

Perispatangus vide *Koilospatangus*.

Peroniasaster maintained; LAMBERT 8 (102).

Petalocidaris, discussed; DOEDERLEIN, 2 (97).

†*Phalacropedina gucrangeri*, ambulacrales; VALETTE 2 (302).

Phormosoma (293) discussed (294); SCHURIG: diagnosed, spp. discussed; (125): *P. adenicum*, diagnosed (128), descr. (134) measured (135, pls.): *P. bursarium*, diagnosed (128) measured (136); DOEDERLEIN, 2.—*P. hoplacantha*, movements; DOEFLEIN (269 fig.).—*P. indicum*, diagnosed (296), described (297, fig.); SCHURIG: diagnosed (128) descr. (130, pls.) measured (136) var. (133, pls.); DOEDERLEIN, 2.—*P. placenta*, diagnosed, descr. (128) measured (135): *P. sigsbei*, diagnosed (128) measured (135); DOEDERLEIN, 2.

Phrissocystis humilis, vide *Meijcrea*.

Phyllacanthus discussed (98), name (100), diagnosed (103); DOEDERLEIN, 2.—*P. imperialis* discussed, pedicellariae figd.; op. cit. (98): †LEMOINE (253, 256, 262): †GREGORY (253).

Phymosoma crenulare, vide *Glyptocidaris*.

†*Piliscus* rejected; VALETTE, 2 (291).

Plagiopneustes criticised; LAMBERT 5.

†*Plagiopygus* discussed (234), *P. daradensis* (233, fig.); LAMBERT in MEUNIER 2.

†*Platypygus posthumus*; AMEGHINO (137, 169).

†*Plegioeoidaris gourdonsensis* sp. n., Barremian of Gourdon, Alpes-Marit., radioles; SAVIN & LAMBERT, Nice, Ann. Soc. let. sci. 20, (96, fig.).

Plesiaster as section of *Brissopsis*; LAMBERT 8 (106).

Plesiadiadema rejected; DOEDERLEIN, 2 (157).

†*Plesiolampas saharæ*; KRUMBECK (135).

†*Plesiosalenia* gen. n. of *Acrosaleniidæ*, for *Acrosalenia pentagona*, *berthelini*, *boloniensis*, *lycetti* (275): *P. lycetti*, juv. (297); VALETTE 2 Auxerre, Bul. soc. sci. Yonne, 59.

Plesiospatangidae rejected; LAMBERT 5.

†*Pliolampas* discussed; LAMBERT 8 (95).—*P. silvestrii*; NELLI.

†*Pliotoxaster* gen. n. of *Spatangidae* (140) with genotype *P. lyonsi* sp. n., Cenomanian, Isthmus of Suez; FOURTAU, Cairo, Bull. Inst., Egypt, ser. 4, 6, (145, pl.).

†*Polygoniopygus* gen. n. of *Hemicidaridae*, with genotype *Goniopygus pilleti* Cott., and comprising *intricatus*, *minor*, and *heteropygus* (281): *P. intricatus* distinguished from *Goniopygus peltatus* (298); VALETTE, 2, Auxerre, Bull. soc. sci. Yonne, 59.

Porocidaris discussed (99), diagnosed (103): *P. graeilis*, is *Goniocidaris*, (97): *P. purpurata* (99), from Nicobars (117, pls.); DOEDERLEIN, 2.

Pourtalesia jeffreysi, pedicellariæ; DOEDERLEIN, 2 (269).—*P. laguneula*; DOFLEIN (253, fig., 269).—*P. miranda*; BATHIER, 1.

Prionechinus (189, 191), discussed (187): *P. agassizi*, diagnosed (192), descr. (194, pls.): *P. chuni* sp. n., Maldives, descr. (192, pls.): *P. sagittiger*, diagnosed (192), descr. (195, pls.); DOEDERLEIN, 2, Wiss. Ergeb. D. Tiefsee-Exped. 5, Lfg. 2.

†*Proraster*, discussed; FOURTAU, (145): maintained, with *Schizaster atavus* Arnaud as genotype; LAMBERT 8 (103).

†*Prospatangus*, ambulacra discussed (48): *P. corsicus*, periplastral zones (50): *P. delphinus*, periplastral zones (49, pl.): *P. pustulosus* (Wr.) descr. from Burdigalian of Vence (51, pl.): *P. simplex* (50, pl.); LAMBERT 1.

Protocentrotus, gen. n. of *Echinidae*, with genotype *Echinus angulosus* Leske, descr.; DOEDERLEIN, 2, Wiss. Ergeb. D. Tiefsee-Exped. 5, Lfg. 2, (201, pls.).

Psammechinus, discussed, its type is *P. miliaris* not *E. variegatus* or *E. blainvillei* (66): *P. blainvillei* is *Anapesus* (q. v.) (67): †*P. delphinus* sp. n. ex Defrance MS. Burdigalian of Barcelona (71, pl.): LAMBERT 8, Paris, Mem. Soc. geol. paleont. 14.—†*P. dubius*; CHECCHIA 2 (pl. iv): synonymy, var. n. *formosa* from Helvetian, Barcelona (69, pl.): †*P. cravensis* sp. n., Tortonian, l'Hérault, = *Echinus miliaris* de Serres non Lam. (70): †*P. gauthieri* (70); LAMBERT 8, Paris, Mem. Soc. geol. paleont. 14.—†*P. iheringi* (137, 168): †*P. lahillei* (168); AMEGHINO.—†*P. michelotti*, descr.; VADASZ (329, pl.).—*P. microtuberculatus*, var. nov. *alta*; CHECCHIA, 2, Palaeontographia ital., Pisa, 12, (90, pl. iv.): vide etiam sub *Echinus* et *Parechinus*.—†*P. pusillus* Münster; PICARD (761).—†*P. serresii* Desmoulins is Maestrichtian (72): Desor non Desm., is a large *P. dubius* (70); LAMBERT 8.—†*P. tournoueri*; AMEGHINO (137, 168).—*P. variegatus* Ag. non Lam., syn. of *P. blainvillei* (Desm.); LAMBERT 8 (66).

Pseudechinus, diagnosed, *P. alboeinetus*, descr. (231, pls.); DOEDERLEIN, 2.

Pseudocentrotus depressus, descr.; DOEDERLEIN, 1 (519).

†*Pseudocodiopsis* gen. n. of *Diadematidae* with genotype *Codiopsis alpina*, and comprising *C. arnaudi*; VALETTE 2, Auxerre. Bul. soc. sci. Yonne, 59, (290).

†*Pseudodiadema*,—*P. griesbachi* sp. n., Senonian, Pondoland; WOODS, Cape Town, Ann. S. African Mus., 4; (276, pl.).—*P. morieri*; MAIRE.—*P. variolare*; WOLLEMAN.

†*Pseudoplopodia* [sic] gen. n. of *Diplopodiidae* for *Diplopodia* with only 3 porepairs to each major, no genotype, *P. calloriensis* (d'Orb. sub *Diadema*) first sp. mentioned (294): *P. aulissiodorensis*, ambulacrals (309): *P. peroni*

sp. n. for *Pseudodiadema acqualis* Pal. franc. pl. 342 non. 341 (294); VALETTE 2, Auxerre, Bul. soc. sci. Yonne., 59.

Psilechinus syn. of *Anapesus*; LAMBERT 8 (68).

†*Pygaulus heberti*, vide *Echinolampas*.

Pygmacocidaris, diagnosed, compared with *Tiarechinus* (182): *P. prionigera*, descr. (185, pls.); DOEDERLEIN, 2.

†*Pygorhynchus* discussed; LAMBERT in MEUNIER 2 (234).—*P. pratti* Wr. is a *Tristomanthus*; LAMBERT 1 (42).—*P. tripolitanus* **sp. n.**, Upper Cretaceous. Djebel Tar, Tripoli; KRUMBECK, Palaeontographica, Stuttgart, 53 (89, pl.).—*P. vassali* Wr. is *Milletia*; LAMBERT 1 (42): discussed; LAMBERT 8 (97).

†*Pygurus*,—*P. depressus*; PETITCLERC (68).—*P. meslei*, *P. perreti*; PERVINQUIÈRE.

†*Radiolus waechteri*; AHLBURG (46, 50, 52, 129).

Regularia, order of *Diadematiformia*, with sub.-ordd. *Diadematina*, *Saleniina*, *Arbaeiina*, *Echinina*; DOEDERLEIN, 2 (85).

†*Rhabdocidaris*,—*R. copeoides*; PETITCLERC (69).—(*R. Leiocidaris*) *erameri*, descr.; FOURTAU (156, pl.).—*R. maxima*; WANDERER (512).

Rhynobrissus [sic] diagnosed; LAMBERT 8 (106).

Rotula discussed; LAMBERT 8 (125).

Rotuloidea Eth., limited; LAMBERT 8 (127).

Salenia hastigera, descr., incl. *S. pacifica* Doed.; DOEDERLEIN, 2 (177, pls.).—†*S. cf. lusitanica*; PARONA.—*S. patersoni*, Agulhas Bank, descr.; DOEDERLEIN, 2 (179, pls.).—†*S. scutigera*; COMBES (464, fig.); SCHUMANN & LEONHARD.—*S. varispina*, pedicellariae; DOEDERLEIN, 2 (180).

Saleniina, sub-ord. of *Regularia*, with 1 Fam, *Saleniidae*; DOEDERLEIN, 2 (86).

Salmais, relations to *Tennopleurus*. views of Mortensen; KOEHLER 3 (461).

Schizaster discussed and defined with genotype *S. studeri*; LAMBERT 8 (110).—†*S. ameghinoi*; AMEGHINO (137, 169).—*S. antarcticus* **sp. n.**, Bouvet Id., 457 M. (252, pls.), measured (256); DOEDERLEIN, 2 Wiss. Ergeb. D, Tiefsee-Exped. Bd. 5 1.fg. 2.—†*S. astensis* **sp. n.**, Astian,

Italy = *S. scillae* Airaghi 1901, pl. vii [i.e. xxv] f. 3 (116, 122): †*S. barcinensis* **sp. n.**, Burdigalian, Barcelona (118, pl.): †*S. bononiensis* **sp. n.**, for Klein 1734, pl. xxvii, f. A, type of *Ora canalifera* Gray (116): †*S. (Aplospatangus) calceolus* **sp. n.** Langhian, Sardinia (118); LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14.—*S. canaliferus*; CHECCHIA, 2, (95): *pedicellariae*; DOEDERLEIN, 2 (255).—*S. capensis*, descr. (250, pls.), measured (256); op. cit.—†*S. curtus*; LAMBERT 8 (114).—†*S. deletus*; AMEGHINO (57).—†*S. desori* (113): †*S. dilatatus* **sp. n.**, for *S. sahelensis* var. *dilatata* Pomel, Echin. Algérie, pl. x, ff. 4, 5 (123): †*S. (Aplospatangus) eurynotus*, synonymy, descr. (117); LAMBERT 8 Paris, Mem. Soc. geol. paleont. 14.—†*S. eurynotus*, discussed; LAMBERT 1 (46).—*S. fragilis*, pedicellariae (253, pl.). measured (256); DOEDERLEIN, 2.—*S. gibberulus*?; GREGORY (255).—†*S. gymnesiae* **sp. n.**, Helvetian, Minorea; LAMBERT 8, Paris, Mem. Soc. Geol., Paleont. 14 (119, pl.).—*S. incertus* vide *Brissopsis lyrifera*; CHECCHIA, 2.—*S. japonicus*, pedicellariae; DOEDERLEIN, 2 (254).—†*S. karrereri* var. **n. hungaricus** (333, pl.): and †*S. loristoi* var. **n. rakosiensis** (335, pl.): Miocene, Budapest, VADASZ, Földt. Közl. Budapest, 36.—†*S. (Brisaster) major*, descr., Barcelona (122, pl.), *S. morgadesi* **sp. n.**, Helvetian, Barcelona (119, pl.): LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14.—†*S. patagonensis*; AMEGHINO (169).—*S. philippii*, pedicellariae (252, pl.) measured (256); DOEDERLEIN, 2.—†*S. rutoti* **sp. n.**, Pliocene, Anvers = *S. scillae* Cotteau 1880, pl. vi, f. 3; LAMBERT 7. Paris, Mem. Soc. Geol. Paleont., 14 (116).—†*S. scillae*; BELLINI (641): LOJACONO (6, 19).—†*S. ventiensis* **sp. n.**, Burdigalian, Vence; LAMBERT 1, Nice, Ann. Soc. let. sci. 20 (45, pl.).—*S. ventricosus*, pedicellariae; DOEDERLEIN, 2 (255).

Schizechinus maintained with genotype *S. serialis*, as s.g. of *Toxopneustes* (68): †*S. mortenseni* **sp. n.**, Helvetian, Barcelona; LAMBERT 8, Paris, Mem. Soc. Geol. Paleont., 14, (73, pl.).

Schizobrissus diagnosed; LAMBERT 8 (106).

Schizocidaris, discussed; DOEDERLEIN, 2 (94).

†*Scutella*,—*S. almerai* sp. n., Tortonian, Barcelona (78, pl.): *S. bofilli* sp. n., Helvetian, Barcelona (77, pl.); LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14.—*S. faujasi* (5): *S. leognathensis* (5, pl.): *S. lorioli* sp. n., Miocene of Bollène, Vaucluse (5, pl.). *S. michuleti* sp. n., Miocene of Carri, Bouches-du-Rhône (6): *S. paulensis*, discussed and limited (1, pl.): *S. subrotundaeformis*, discussed (6, pl.); LAMBERT 1, Nice, Ann. Soc. let. sci. 20.—*S. tarraconensis* sp. n., Burdigalian, Barcelona; LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14 (79, pl.).—*S. rindobouensis*; NOSZKY (468).

Scutellidae, subdivisions; LAMBERT 8 (121).

†*Scutolampas* **sectio n.** of *Echinolampas*, with type *E. plagiosomus*; LAMBERT 1, Nice, Ann. Soc. let. sci. 20 (33).

Spatangidae **genn. nn.**, vide *Gregoryaster*, *Koilospatangus*, *Pliotroaster*.

Spatangoidea, sub.-ord. of *Irregularia*, with Fam. 1. *Echinoneidae*, 2. *Cassitullidae*, 3. *Anachytidae*, 4. *Spatangidae*, 5. *Palaestomatidae*, 6. *Pourtalesiidae*; DOEDERLEIN, 2 (87).

Spatangus discussed and defined with genotype *S. canaliferus* = *Schizaster* Auctt.; LAMBERT 8 (110).—†*S. bottomiceai*; BELLINI (641, 649).—*S. capensis*, descr. (261, pls.): *S. luetkeni*, measured (263); DOEDERLEIN, 2.—†*S. manzonii*; NELLI.—*S. purpureus*; CHECCHIA, 2 (95): CUENOT: HENRI: HENRI & KAYALOF: distrib. (260, pls.) pedicellaria (262), measured (263); DOEDERLEIN, 2.—*S. raschi*, measured; l.c.

Sperosoma, diagnosed, spp. discussed (145), comparative measurements of spp (157); DOEDERLEIN, 2.—*S. biserialatum* (295, 296), descr. (299); SCHURIG: diagnosed, descr.; DOEDERLEIN, 2 (150, pls.).—*S. durum*, diagnosed, descr.; op. cit. (153, pls.).—*S. grimaldii*; SCHURIG (294): diagnosed, descr., also young; DOEDERLEIN, 2 (147, pls.).

Sphaerechinus granularis; BRIOT, 3: CERNOVODEANU & HENRI: FISCHER 1 and 2: HENRI & KAYALOF: HERBST 1 and 2: LO BIANCO (91): variations;

CHECCHIA, 2 (92, & † pl. iv).—†*S. scillae* sp. n. Pleistocene, Ficarazzi, Sicily; op. cit. (pl. iv).

†*Stegaster*; BRYDENE (14).—*S. dallagoi* referred to *Lampadocorys*; AIRAGHI (110).

Stephanocidaris, discussed (92) diagnosed (101): *S. bispinosa* (93): *S. bracteata* (94); DOEDERLEIN 2.

Sterechinus discussed; KOEHLER 5 (36): diagnosed and discussed (217): *S. antarcticus*, diagnosed (219): *S. diadema*, diagnosed (219), descr. (225, pls.): *S. horridus*, diagnosed (219), descr. (220, pls.) juv. (222), measured (226): *S. margaritaceus*, discussed (218), descr. (224, pls.), measured (226): *S. neumayeri*, diagnosed (219); DOEDERLEIN, 2.

Stereocidaris, discussed (96), diagnosed (102), comparative measurements of all recent spp. (116): *S. canaliculata* (96): *S. capensis* sp. n., olim *S. indica* var. *capensis*, redescri. (110, pls.): *S. indica*, distrib. (104, 109, pls.), with **varr. nn.** *aficana*, Somali coast (107, pls.), *carinata*, Somali coast (108, pls.), *integra*, Somali coast (105, pls.), & *sumatrana*, N. Sumatra (109, pls.): *S. ingolfiana* (110): *S. nutrix* (96): *S. tricarinata* sp. n., olim *S. indica* var. *tricarinata* (112, pls.), **var. n.** *teretispina*, Siberat Id. (115, pls.); DOEDERLEIN, 2. Wiss. Ergeb. D. Tiefsee: Exped., Bd. 5. Lfg. 2, Jena.

Stereosomata, Tribus of *Diadematina*, with Families 1. *Aspidodiadematidae*, 2. *Diadematidae*, 3. *Micropygidae*, 4. *Pedinidae*; DOEDERLEIN, 2 (86).

†*Stomechinus*,—*S. heberti*; PETITCLERC (70).—*S. perlatus*; WANDERER (512).—*S. polyporus*, *S. serratus*; MAIRE.

Streptosomata, Tribus of *Diadematina*, with 1 Fam. *Echinothuridae*; DOEDERLEIN, 2 (86).

Strongylocentrotus droebachiensis; DERJUGIN (149): †WILSON (725): **var. n.** *sachalinica*, coast of Sachalin; DOEDERLEIN, 1 (517).—*S. franciscanus*; KUPELWIESER.—*S. hokkaidensis* sp. n., N. Japan and Vladivostok (518): *S. intermedius*, descr. (517); DOEDERLEIN, 1.—*S. lividus*; BRIOT, 3: DRAGO: FISCHER

1 and **2**: HENRI & KAYALOF: HERBST
1 and **2**: LO BIANCO (92, 93): MARCUS:
 PRZIBRAM: variations; CIECCHIA, 2 (92,
 & † pl. iv.): vide etiam sub *Paracentrotus*.
 —*S. pulcherrimus*, descr.; DOEDERLEIN,
1 (516).—*S. purpuratus*; KUPELWIESER:
 LOEB **2**, **3**, **5**, **6**.—*S. tuberculatus*;
 DOEDERLEIN **1** (519, 521).

Temnechininae, discussed, key to genera;
 DOEDERLEIN, **2** (188).

Temnopleuridae, discussed; DOEDER-
 LEIN, **2** (187).

Temnopleurinae; DOEDERLEIN, **2** (188).

Temnopleurus, discussed (461): *T.*
perezi **sp. n.**, Red Sea (460, fig.);
 KOEHLER, **3**, Bul. Muséum, Paris, 1905.—
T. reevesi, descr., variations; DOEDER-
 LEIN, **2** (200, pls.).—†*T. toreumaticus*;
 TOKUNAGA.

Thylechinus quincuncialis **sp. n.** (222,
 pl.) and *T. trigranulatus* **sp. n.** (223, pl.):
 Cenomanian, Sinai; GREGORY, Geol.
 Mag., London, n. ser., dec. v, **3**.

†*Thylosalenia* Pomel as subgenus of
Aerosalenia, made **gen. n.** with genotype
T. patella; VALETTE **2**, Auxerre, Bul. soc.
 sci. Yonne, **59** (276).

†*Tiarechinus*, discussed; DOEDERLEIN,
2 (183).

†*Tornquistellus* Berg (= *Leptechinus*
Tornquist) is syn. of *Perischodomus*;
 LAMBERT **7**: vide etiam sub *Leptechinus*.

†*Toxaster*.—*T. collegrnoi*, referred to
Plotoxaster (q. v.); FOURTAU (140).—
T. complanatus; ANDRUSOV (82): FRITEL
 (147, fig.).—*T. dieneri*, referred to
Miotoxaster (142): *T. radula*, referred
 to *Plotoxaster* (q. v.) (140): "*T.*
radula" Cenomanian of Beharieh oasis
 is a *Hemiasterid* (147); FOURTAU.

Toxobrissus, syn. of *Brissopsis*;
 LAMBERT, **8** (105).

Toxocidaris crassispina, *T. globulosa*,
T. nuda (518): *T. purpurea* (520);
 DOEDERLEIN **1**.

†*Toxopatagus italicus*; CIELUSSI
 (296).

Toxopneustes incl. *Boletia*; LAMBERT
8 (69).—†*T. pileolus*; GREGORY (253).

Trachyaster syn. of *Hemiaster* s.str.;
 LAMBERT **8** (101).

†*Trachyspatagus tuberculatus*, dis-
 cussed; LAMBERT **8** (120).

Tretocidaris, discussed (92), diagnosed
 (101); DOEDERLEIN, **2**.

Trigonocidaris; DOEDERLEIN, **2** (189).

†*Tripneustes gahardensis* **sp. n.** for
Hipponoë parkinsoni var. *gahardensis*
 Seunes, Miocene, Bretagne; descr. from
 Helvetian, Barcelona; LAMBERT **8**, Paris,
 Mem. Soc. Geol., Paleont., **14**, (75, pl.).

Tripylus discussed; LAMBERT **8**
 (101).—*T. excavatus*, vide *Hemiaster*
cavernosus.

†*Tristomanthus*, discussed; LAMBERT
1 (41) and **8** (95).—*T. lorioli* **sp. n.**,
 Burdigalian, Vence; LAMBERT **1**, Nice,
 Ann. Soc. let. sci. **20**, (41, pl.).

†*Verbeekia* Fritsch, provisionally
 accepted; LAMBERT **8** (107).

Zeugaster **sectio n.** of *Brissopsis*, with
 type *B. lamberti* Gauth.; LAMBERT **8**,
 Paris, Mem. Soc. Geol., Paleont., **14**
 (106).

D. ASTEROIDEA.

Asteroidea, classification of Orders
 and families; FISHER **3** (990).—Perrier's
 Orders accepted because corresponding
 with habits; MACBRIDE **2** (461).

Alexandraster inflatus **sp. n.** ca. 140
 m. Monterey B., Calif.; FISHER **2**, Zool.
 Anz., Leipzig, **30**, (300).

Anasterias tenera **sp. n.**, Antarctic;
 KOEHLER **4**, Bul. Muséum, Paris, 1905,
 (464): descr., also young; KOEHLER **5**
 (12, pls.).

Anseropoda, name discussed; *A.*
insignis **sp. n.**, 143 fm., Hawaiian Is.;
 FISHER, **3**, Washington, Bull. U. S. Fish
 Comm., **23**, (1088, pl.).

Anseropodidae **fam. n.** of *Spinulosa*,
 = *Palmipedinae* (1087), transferred to
Cryptozonia (990); FISHER, **3** Washing-
 ton, Bull. U. S. Fish Comm., **23**.

Antheniaster epixanthus **sp. n.**, 178
 fm., Hawaiian Is.; FISHER, **3** Washing-
 ton, Bull. U. S. Fish Comm., **23** (1067,
 pls.).

Archaster typicus; FISHER, 3 (1045).

Asteracanthion helianthus; BOUVIER, 1.—*A. rubens*; STIEREN (271).

Asterias,—†*A. annulosa*; SCHOENDORF 2 (255).—*A. forbesii*; KING: MATHEWS 1 and 2: TENNENT & HOGUE.—*A. glacialis*; DRAGO.—*A. lincki*; DERJUGIN (94, 149).—*A. papposa* Linnaeus Syst. Nat. xi; BELL.—†*A. pustulata*, (257), see also *Sphaerites*; SCHOENDORF 2.—*A. tenuispina*, genotype of *Stolasterias*; FISHER, 1.—*A. rubens*; BOHN: JOHNSTONE (239, 241): Japan; DOFLEIN: anat.; MACBRIDE 2 (432): nerve-system, &c.; MEYER.—*A. rubens violacea*; DERJUGIN (149).—†*A. scutata* (252, 254): †*A. stellifera*, probably marginals of *Sphaerites scutatus* (252, 255, 257, 265, fig.). †*A. tabulata* (251, 255); SCHOENDORF 2.

Asterinidae, transferred to *Cryptozonia*; FISHER, 3 (990).

Asterodiscus tubereulosus sp. n., 59 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1075, pls.).

Asthenactis gen. n. of *Myxasteridae* (1096) with genotype *A. papyraceus* sp. n. 762 fm., Hawaiian Is.; op. cit. (1097, pl.).

Astroceramus gen. n. of *Goniasteridae*, with genotype *A. callimorphus* sp. n., 127 fm., Hawaiian Is.; op. cit. (1056, pls.).

Astrogonium M. & T., name discarded; FISHER, 3 (1036).—*A. astrologorum*, madreporite; SCHOENDORF (292, fig.).

Astropecten bonnieri sp. n., Red Sea; KOEHLER 3. Bul. Muséum Paris, 1905, (462, fig.).—*A. californicus* sp. n. under 140 m., Monterey B., Calif.; FISHER, 2, Zool. Anz. Leipzig, 30 (299).—*A. callistus* sp. n., 143 fm., (1012, pls.): *A. etenophorus* sp. n., 130 fm. (1006, pls.): Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23.—*A. erinaceus*; FISHER, 4 (118).—*A. hemprichi*; HERDMAN 3 (447).—*A. monacanthus*, size, paxillae; KOEHLER 3 (459).—*A. ornatissimus* sp. n., 150 fm., California; FISHER 4 Washington, Proc. Acad. Sci., 8 (119).—*A. polyacanthus*, descr. (1004, pls.): *A. productus* sp. n., 122 fm. (1010,

pls.): *A. pusillulus* sp. n., 241 fm. (1008, pls.): Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish. Comm., 23.—*A. velitaris*, descr.; op. cit. (1005, pls.).—†*A. wilckensis*; AMEGHINO (57).

Astropectinidae, gen. nn. vide *Otenophoraster*, *Tritonaster*, *Psilasteropsis*, *Palagiaster*.

Benthaster eritimus sp. n., 222 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1101, pl.).

Brisinga alberti sp. n., 451 fm., (1111, pls.): *B. evermanni* sp. n., 450 fm., (1113, pls.): *B. fragilis* sp. n., 222 fm., (1115, pls.): *B. panopla* sp. n., 451 fm., (1109, pls.): Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23.

Calliaster pedicellaris sp. n., 130 fm., Hawaiian Is.; op. cit. (1061, pls.).

Calliderma spectabilis sp. n., 148 fm., Hawaiian Is.; op. cit. (1058, pls.).

Calveria hystrix; BATHER, 1.

Calveriaaster, rejected; BATHER, 1.

Ceramaster, vide sub *Tosia*.

Cheiraster horridus sp. n., 143 fm. (1042, pls.): *C. inops* sp. n., 256 fm. (1043, pls.): *C. snyderi* sp. n., 418 fm., (1040, pls.): Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23.

Coseinasterias Verrill, reinstated with s. gg. *Stolasterias*, *Marthasterias*, *Distolasterias*; FISHER 1 and 3 (1104).—*C. (Distolasterias) euplecta* sp. n., 136 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1105, pls.).

Cribrella, syn. of *Linckia*; FISHER, 3 (1090) and 4 (127).—*C. oculata*; BARTHELIS.—*C. sanguinolenta*; DERJUGIN (149).

Crossaster alternatus sp. n., 414 fm., California, also young (131).—*C. borealis* sp. n., 230 fm., Kadiak Id. (131); FISHER, 4 Washington, Proc. Acad. Sci., 8.—*C. papposus*; DERJUGIN (149).

Cryaster gen. n., of *Cryasteridae*, with genotype *C. antarcticus* sp. n., Antarctic; KOEHLER 4, Bul. muséum, Paris, 1905 (469); descr.; KOEHLER 5 (24, pls.).

"Cryasteridées **nov. fam.**" of *Cryptozonia* allied to *Echinasteridae*; loc. cit.

Ctenodiscus crispatus, *brevimana*; DERJUGIN (149).

Ctenophoraster **gen. n.** of *Astropectinidae* (1014) with genotype *C. hawaiiensis* **sp. n.**, 57 fm., Hawaiian Is. (1015, pls.); FISHER, 3 Washington, Bull. U. S. Fish Comm., 23.

Culeita discoidea; SCHOENDORF 2 (300, fig).

Diplasterias papillosa **sp. n.**, Antarctic; KOEHLER 4, Bul. muséum, Paris, 1905 (466): descr., young; KOEHLER 5 (21, pls.).—*D. turqueti* **sp. n.**, Antarctic; KOEHLER 4, Bul. muséum, Paris, 1905, (465): descr.; KOEHLER 5 (19, pls.).

Dipsacaster nesiotes **sp. n.** 299 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1026, pls.).

Distolasterias, is s.g. of *Coscinasterias*; FISHER 1 and 3 (1105).

Echinaster sp. juv. et aff. *sladeni*; FISHER, 3 Washington, Bull. U. S. Comm., 23 (1092).—*E. callosus*, *E. sepositus*; BARTHELIS.

Evoplosoma **gen. n.** of *Goniasteridae* with genotype *E. forcipifera* **sp. n.** 682 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1065, pls.).

Gilbertaster **gen. n.** of *Goniasteridae* with genotype *G. anacanthus* **sp. n.** 382 fm., Hawaii; op. cit. (1063, pl.).

Goniasteridae, **gen. nn.** vide *Astrocera*, *Gilbertaster*, *Evoplosoma*, *Goniodiscides*.

Goniodiscides **gen. n.** of *Goniasteridae*, = *Goniodiscus*, with genotype *G. sebae*; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1070, pl.).

Granaster biserialis, **sp. n.**, Antarctic; KOEHLER 4, Bul. Muséum, Paris, 1905 (466): descr.; KOEHLER 5 (11, pls.).

†*Helianthaster* sp. nondesc., Upper Devonian, N.Y.; CLARKE, 2 (37, pl.).

Heliaster multiradiata, probably not Hawaiian; FISHER, 3 (1104).

Henricia, name discussed (1089); FISHER, 3 and FISHER, 4 (127).—*H. aspera* **sp. n.**, 48 fm., Oregon; FISHER 4, Washington, Proc. Acad. Sci., 8 (127).—*H. pauperrima* **sp. n.**, Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1091, pls.).—*H. polyacantha* **sp. n.**, 359 fm., California; FISHER 4 Washington, Proc. Acad. Sci., 8 (129).—*H. robusta* **sp. n.**, 195 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1090, pls.).

Hydrasterias verrilli **sp. n.**, 284 fm., Hawaiian Is.; op. cit. (1106).

Hymenaster pentagonalis **sp. n.**, 304 fm., Hawaiian Is.; op. cit. (1099, pls.).

Korethraster hispidus; BATHER, 1.

Labidiaster radiosus; KOEHLER 4: large; KOEHLER 5 (24).

Lahillea; BATHER, 2: vide *Ortmannia*.

Lahillia; BATHER, 2.

Leiaster callipeplus **sp. n.**, 33 fm., Hawaiian Is.; FISHER, 3, Washington, Bull. U. S. Fish Comm., 23 (1083, pls.).

Leptoptychaster, rejected for original spelling *Leptychaster* (q. v.); FISHER, 4 (112).

Leptychaster anomalus **sp. n.**, 58 fm., Bering Sea (115); *L. pacificus* **sp. n.**, 238 fm., Vancouver Id, compared with *L. arcticus* (112); FISHER, 4 Washington, Proc. Acad. Sci., 8.

Linckia, name discussed (1090): *L. diplax* descr. (1015, pls.): *L. multiflora* (1085); FISHER, 3.

Linckidae, transferred to *Phanerozonia*; FISHER, 3 (990).

Luidia asthenosoma **sp. n.**, 47 fm., California; FISHER, 4 Washington Proc. Acad. Sci. 8 (124).—*L. ciliaris*; Lo BIANCO (94).—*Luidia*, aff. *forficifer*, juv.; FISHER, 3 (1036).—*Luidia foliolata*; FISHER 4 (121).—*L. hystrix*, **sp. n.**, 28 fm., Hawaiian Is.; FISHER, 3 Washington Bull. U. S. Fish Comm 23 (1032, pls.).—*L. ludwigi* **sp. n.**, 29 fm., California; FISHER 4 Washington, Proc. Acad. Sci., 8 (122).—*L. maculata*; HERDMAN 2 (121) and 3 (447).—*L. magnifica* **sp. n.**, 73 fm., Hawaiian Is.; FISHER, 3, Washington, Bull. U. S. Fish Comm., 23 (1033, pls.).—*L. sarsi*, larva; DELAP 2 (15).

Marthasterias, is s.g. of *Coscinas-terias*; FISHER, 1 and 3 (1105).

Mediaster ornatus sp. n., 399 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1046, pls.).

Metopaster, distinguished from *Gonio-discides*; FISHER, 3 (1070).

Mithrodia sp. (1096, pls.): *M. bradleyi*, descr. (1094, pls.); FISHER, 3.

Myxasteridae, gen. n. vide *Asthenactis*.

Nereidaster discussed (1048): *N. boursi* sp. n., 324 fm., Hawaiian Is. (1049, pls.); FISHER, 3 Washington, Bull. U. S. Fish Comm., 23.

Nymphaster florifer, probably *Mediaster*; op. cit. (1048).

Odinia pacifica sp. n., 319 fm. Hawaiian Is.; op. cit. (1108, pls.).

Odontaster tenuis sp. n., Antarctic; KOEHLER 4, Bul. Muséum. Paris, 1905, (468): *O. tenuis* descr.; KOEHLER 5 (8, pl.).—*O. validus*, sp. n., Antarctic; KOEHLER 4, Bul. Muséum. Paris, 1905 (467): descr.; KOEHLER 5 (6, pl.).

Ophiaster lorioli sp. n., reefs, (1077, pls.): *O. rhabdotus* sp. n., 233 fm., (1082, pls.): *O. sclerodermus* sp. n., 99 fm., (1081, pls.): *O. squameus* sp. n., 130 fm., (1079, pls.): *O. tenellus* sp. n., 130 fm., (1082, pl.): *O. triseriatus* sp. n., 69 fm. (1080, pls.): Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23.

Ortmannia nom. nov. pro *Lahillia* [sic, olim *Lahillea*] Lor. non COSSM. [preocc. Rathbun, 1901]; LORIOL, Rev. paleozool. Paris, 10, (78): BATHIER, 2 (131).

Palmipes Ag., syn. of *Anseropoda*; FISHER, 3 (1088).

Parastropecten inermis, perhaps a *Leptychaster*; FISHER, 4 (117).

Patagiaster gen. n. of *Astropectinidae* with genotype *P. nuttingi*, sp. n., 202 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1029, pls.).

Patiria pulla sp. n., Mauritania coast (60, pl.): *P. rosea* sp. n., Mauritania coast (58, pl.): KOEHLER & VANEY, 3, Bordeaux, Actes Soc. linn., 60.

(N-9720 m)

Pentaceros,—[*P. dilatatus* sp. n. in Chalk flint, Fontaine St. Simon (Eure-et-Loir); MEUNIER 1 Naturaliste, Paris, sér. 2, 20 (117-118, fig.).—*P. hawaiiensis* sp. n., 43 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1072, pls.).—*P. lincki*; HERDMAN, 2 (121, 125, fig.) and 3 (447, pl.).—*P. nodosus*; HERDMAN, 2 (121).

Pentagonaster amophilus sp. n., 257 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1051, pls.).

Plinthaster, vide sub *Tosia*.

Polyasterias is syn. of *Stolasterias*; FISHER 1 and 3 (1105).

Pontaster discussed; FISHER, 3 (1040).

Pontasterinae, transferred to *Benthoplectinidae*; FISHER, 3 (990).

Porania antarctica; KOEHLER 4: incl. all Antarctic spp.; KOEHLER 5 (10).

Pseudarchaster jordanii sp. n., 375 fm. (1038, pls.): *P. myobrachiinus* sp. n., 127 fm. (1037, pls.): Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23.

Psilaster attenuatus sp. n., 290 fm., Hawaiian Is.; op. cit. (1019, pls.).

Psilasteropsis gen. n. of *Astropectinidae* with genotype *P. cingulata* sp. n., 118 fm. Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1023, pls.).

Pteraster militaris, *P. pulvillus*; DERJUGIN (119).—*P. reticulatus* sp. n., 284 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1098, pls.).

Pyenopodiidae Stimpson, restr. to *Pyenopodia*, *Rathbunaster* gen. n., and possibly *Anasterias*; FISHER, 4 (136).

Rathbunaster gen. n. of *Pyenopodiidae* with genotype *R. californicus* sp. n., 339 fm., California; FISHER, 4 Washington, Proc. Acad. Sci. 8 (137).

Rhegaster tumidus; DERJUGIN (97, 149).

Ripaster gen. n. of *Archasteridae*, with genotype *R. charcoti* sp. n. Antarctic; KOEHLER 4 Bull. Muséum, Paris.

1905 (467): diagnosed and descr. fr. Booth-Wandel Id.; KOEHLER 5 (4, pl.).

Solaster endeca; DERJUGIN (149): Japan; DOFLEIN.—*S. papposus*; JOHNSTONE (238): Japan; DOFLEIN: synm. on p. 89 Bell's Cat. Brit. Echinod. corrected; BELL.

†*Sphaeraster* (255, 303); SCHOENDORF 2: discussed: *S. punctatus*, structure (figs.); SCHOENDORF 1.

†*Sphaerasteridae*, fam. nov. of *Phanerozonia*; SCHOENDORF 1, Wiesbaden, Jahrb. Ver. Natk., 59, (256) and 2 (303).

†*Sphaerites*, name (252), structure, based on various spp. (271–297), habits (299), diagnosis (302): *S. annulosus*, descr. (264, fig.): *S. digitatus* (253), dorsal plates of a *Pentacerote* (270): *S. fossulatus* (253), var. of *S. tabulatus* (264): *S. juvenis* (252) descr. (260, fig., pl., 279, 296): *S. punctatus* (253), descr. (257, pl.) structure (271 et sq., figs.): *S. pustulatus* (253), descr. (264, fig., pl., 282, 294): *S. regularis* (253): *S. scutatus* (252), descr. (266, figs., pl., 281, 285, 288, 294): *S. tabulatus* (252), descr. (263, figs., 280); SCHOENDORF 2.

Stegnaster inflatus; SCHOENDORF 2 (256, 299, fig.).

Stellosphaera gen. n. of *Forcipulata* with genotype *S. mirabilis* sp. n. larva only, 2000–3000 m., Azores; KOEHLER & VANEY, 1. Bull. Mus. Monaco, No. 64, (figs.) and 2.

Stichaster albulus; DERJUGIN (105).

Stolasterias, is s.g. of *Coscinasterias* (q.v.); FISHER, 1.

Tosia (*Ceramaster*) *micropelta* sp. n., (1054, pls.): *T. (Plinthaster) ceramoidea* sp. n., 277 fm. (1052, pls.): Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm. 23.

Tritonaster gen. n. of *Astropectinidae* with genotype *T. eraspedotus* sp. n., 294 fm., Honolulu; op. cit. (1017, pls.).

Valvaster striatus, descr.; op. cit. (1093, pl.).

Zoroaster spinulosus sp. n., 328 fm., Hawaiian Is.; op. cit. (1102, pls.).

E. OPHIUROIDEA.

Bell's orders accepted, because of physiological importance; MACBRIDE 2 (491).

Amphiura squamata; HEROUARD 4: †SCALIA.

†*Aspidura* cf. *squamosa*; AHLBURG (55).

Gorgonocephalus agassizi, *G. euenemis*; DERJUGIN (150).—*G. sagaminus*; DOFLEIN (204, fig.).

Ophiacantha bidentata; DERJUGIN (149).

†*Ophiaster* gen. n. with genotype *Ophiacten* (?) *bellefourchensis* sp. n., Jurassic, Black Hills, Wyo.; WHITFIELD & HOVEY. New York, N.Y., Bull. Amer. Mus. Nat. Hist., 22 (391, pl.).

Ophioglypha innoxia sp. n., Antarctic; KOEHLER 5, Exped. antarct. franç. Documents scient. Paris, (27, pl.).—*O. nodosa*; STIEREN (271).

Ophionotus victoriæ; KOEHLER 4 (470), and 5 (29).

Ophiopholis aculeata; DERJUGIN (90, 149).

Ophiopsammium rugosum, colour and other notes; KOEHLER 3 (459).

Ophiocolax glacialis; DERJUGIN (97, 150).

Ophiothela danac; KOEHLER 3 (459).

Ophiothrix exigua, colour; KOEHLER 3 (458).—*O. fragilis*; MACBRIDE 1: anat.; MACBRIDE 2 (478).

Ophiura albida; JOHNSTONE (244).—*O. sarsi*; DERJUGIN (149).

F. CRINOIDEA.

Historical discussion of Classification; HAMANN (1554).—Bather's division into *Monocyelica* & *Diocyelica*, and Jaekel's division into *Cladoerinoidea* & *Pentacrinoides*, criticised; WACHSMUTH & SPRINGERS Orders, *Inadunata*, *Articulata*, *Camerata* accepted because physiological; MACBRIDE 2 (594).

†*Actinoerinus*? sp. indet.; WELLER (439, pl.).—*A. polydactylus*; BATHER in MATLEY (296).

†*Aetinometra formae*; BELLINI (641).

†*Agaricoerinus* sp. indet.; WELLER (140, pl.).

†*Amphicrinus* gen. n. of *Sagenocrinidae*; SPRINGER, J. Geol. Chicago, **14** (518).

†*Anisoerinus* (475, 479): *A. angelini*, (189, pl.): *A. greeni* (180, pl.): *A. interruptus*, (179, pl.): *A. oswegoensis* (180, pl.); SPRINGER.

Antedon anceps Carp. in Ceylon Pearl Fishery Rep., corrected to *A. bengalensis* Hartlaub; HERDMAN, **3** (419).—†*A. anglicensis*; BELLINI (641).—*A. bifida*, anat.; MA BRIDE, **2** (581): ovary and oocyte; CHUBB, **2**.—†*A. depereti*; BELLINI (641).—*A. eschrichti*; DERUGIN (150).—†*A. fontanesi*; BELLINI (641).—†*A. iheringi*; AMEGHINO (172).—†*A. michelottii* (641), *nicolasi* (650), *oblitus* (641), *paronai* (641), *pellati* (641); BELLINI.—*A. phalangium*; LO BIANCO (91) *A. rosacea*; op. cit.: PRZIBRAM: pentacrinoid compared with early *Flexibilia*; SPRINGER (503, pl.).—†*A. stellatus* and *taurinus*; BELLINI (641).

†*Ascoerinus* near Bristol; BATHER in HIND (173).

†*Aspidoerinus scutelliformis*; GRABAU (155).

†*Asteroerinus* (?) *münsteri*; LAMANSKY (79, 171).

†*Baryerinus* discussed; BATHER, **3** (104).

†*Batoerinus*,—*B. calyculus* (1247, pl. xiv): *B. crassitestus* (1249, pl. xv): *B. davisi* (1248, pl. xv): *B. davisi lanesvillensis*; (1249, pl. xv): *B. davisi sculptus* (1250, pl. xv): *B. icosidactylus* (1243, pl. xii): *B. irregularis* (1241, pl. xii): *B. magnirostris* (1244, pl. xv): *B. sacculus* (1246, pl. xii): *B. salemensis* (1245, pl. xii); BEEDE.

†*Botryoerinus*, discussed (104), *americanus* (103), *crassus* (101), *eucurbitaceus* (94), *decadactylus* (95), *longibrachiatus* (97), *nucleus* (98) *pinnulatus* (96) *polyxo* (99), *quincquelobus* (96), *ramosus* (95), *ramosissimus* (94), all re-diagnosed; BATHER, **3**.

†*Caleidoerinus*; SPRINGER (485, 519).

†*Calpioerinus* (480, 517), *C. fimbriatus* (483, pl.), *heterodactylus*, *oratus*, (pl.); SPRINGER.

†*Camarocerinus asiaticus* sp. n., Nyaungbaw beds, Yemeyé, Upper Burma; REED, Palaeont. Indica, Calcutta, n. ser., **2** (88, pl.).—†*C. quadrilobatus* sp. n. Upper Ordovician Nyaungbaw beds, Burma, based on *Echinosphacrites kingi* [same as preceding]; HOLLAND, Rec. Geol. Surv. India, **33** (75).—†*C. stellatus*; GRABAU (319).

†*Cerioerinus*, — *C. hemisphaericus* (387): †*C. missouriensis* (381, 383); BEEDE & ROGERS.

†*Cheiroerinus* sp. roots; LAMANSKY (80, 172, 173).

†*Choloerinus* gen. n. of *Sagenocrinidae* with genotype *Lithocr. obesus*; SPRINGER, J. Geol. Chicago, **14**, (515, 517).

†*Cleioerinus*; SPRINGER (519).

†*Clidochirus* (475, 479, pl.): *C. pyrum* (479, pl.); SPRINGER.

†*Conocerinus sequenzai* (641, 650), *C. michelottii* (650); BELLINI.

†*Cosmoerinus* discussed; *C. dilatatus*; *C. holzapfeli*, genolectotype; *C. ornatisimus*; BATHER, **3** (104).

†*Crotaloerinus rugosus*; SIEMIRADZKI (177, 188, 195, 211, 278, pl. xxi).

†*Cupressoerinus* sp.; SIEMIRADZKI (278, pl. xxi).

†*Cyathocerinus*,—*C.* sp.; SIEMIRADZKI (177, 190, 211, 277, pl. xxi).—*C. ? exilis*; LAMANSKY (80, 172).—*C. cf. goliathus*, columnals; GORTANI, **1** (14).—*C. ornatisimus*, vide sub *Scytalocr.* et *Cosmoer.*

†*Dadoerinus gracilis* (43, 44, 48, 52): *D. kunischi* (55); AHLBURG.

†*Dichocerinus*,—*D. blatchleyi* sp. n. Salem Lst., Warsaw group, Paynters Hill, Ind. (1259, pl. xvii): *D. oblongus* (1260, pl. xiii): *D. striatus*, Salem Lst., perhaps young (1258, pl. xiii); BEEDE, Indiana, Rep. Dept. Geol. **30**.

†*Dizygocerinus*, — *D. ?* sp. (1254, pl. xvii): *D. decoris* [sic] (1253, pls. xii, xvi): *D. euconus* (1252, pl. xii, xvi): *D. unionensis* (1253, pl. xvi): *D. whitei*, young, (1251, pl. xii); BEEDE.

†*Enerinus*, — *E.* cf. *granulosus*; AHLBURG (83, pl. iii).—*E. liliiformis*; FRITEL (106, fig.): reconstruction; FRAAS (18, fig.).—*E.* cf. *liliiformis* (48, 50, 52, 55, 83): *E. silesiacus* (51); AHLBURG.

†*Entrochus asteriscus*; SIEMIRADZKI (188, 199, 211, 277, pl. xxi).—†*E. dubius*; AHLBURG (48, 50, 52, 55, 83).

†*Erisoerinus typus*; BEEDE & ROGERS (381, 382, 383).

†*Euryoerinus*; SPRINGER (484).

†*Eutaxoerinus* **gen. n.** of *Taxoerinae*, with genotype *Taxocr. affinis*; SPRINGER, J. Geol. Chicago, **14**, (493, 519).

Flexibilia full discussion; *famm. Ichthyo-, Sageno-, Taxo-erinae* (q.v.); SPRINGER.

†*Forbesioerinus*,—*F. agassizi* (489): *F. multibrachiatus* (489): *F. parrus* (500): *F. washingtonensis* (pl.): *F. whitfieldi* (500); SPRINGER.

Gephyroerinus grimaldii; ALBERT.

†*Glyptoerinus*,—*G.* sp.; SIEMIRADZKI (211, 277, pl. xix).—*G. basalis*; EVANS, (634).

†*Gnorimocrinus*,—*G. excaratus* is a *Dactyloer.* (515): *G. expansus* (492, pl.): *G. loveni* (492), type of *Meristocrinus* (q.v.) (515): *G. tubuliferus* (492); SPRINGER.

†*Haploerinus* (?) *monile*; LAMANSKY (79, 171).

†*Homaloerinus* (475, 482, 517): *H. dudleyensis* **sp. n.** Wenlock Limest., Dudley (482, pl.): *H. parabasalis* (482, pl.); SPRINGER, J. Geol. Chicago, **14**.

†*Homocrinus scoparius*; GRABAU (319, 320).

†*Hydreionocrinus discus*; BEEDE & ROGERS (381).

†*Hypsoerinus* **gen. n.** of *Pisoerinae* with genotype *H. fieldi* **sp. n.**, Devonian, Hamilton shales, Bethany, N.Y.; SPRINGER & SLOCUM, Chicago, Ill., Pub. Field Columb. Mus., Geol. Ser., **2**, (pl.).

†*Ichthyoerinae*, defined, include *Clidochirus*, *Ichthyocr.*, *Lecanoer.* (syn.

Cyrtidoer.), *Mespiloer.*, and *Metichthyoer.* **gen. n.**; SPRINGER, J. Geol. Chicago, **14**, (516).

†*Ichthyoerinus*, radial, (475): *I. burlingtonensis* (477, pl.); SPRINGER.—*I. clarkensis*; BEEDE (1257, pl. xiv).—*I. conoides* (476): *I. corbis* (477): *I. gotlandicus* (pl.): *I. greeni* (478, 490): *I. intermedius* (pl.): *I. laevis* (476, 477, pl.): *I. pyriformis* (477, pl.): *I. simplex* (476): *I. subangularis* (476, 477, pl.): *I. tiaraeformis* (477); SPRINGER.

†*Lecanoerinus* (475, 491): *L. greeni* is *Anisoerinus* (480, pl.): *L. macropetalus* (501, pl.): *L. oswegoensis* is *Anisoerinus* (480, pl.): *L. roemeri* (491); SPRINGER.

†*Leioerinus* syn. of *Homaloerinus*; SPRINGER (482).

†*Lithoerinus obesus*, type of *Choloer.* (q.v.): *L. robustus*, syn. of *L. divaricatus*; SPRINGER (515).

†*Marsupites testudinarius*; TREACHER & WHITE; WHITE & TREACHER.

†*Meloerinus*,—*M. clarkei*, now first figd.; CLARKE, **1** (346, pl. D, E).—*M. pachydactylus*; GRABAU (135, fig.).

†*Meristocrinus* **gen. n.** of *Taxoerinae*, with genotype *Taxocr. loveni*; SPRINGER, J. Geol. Chicago, **14** (515, 519).

†*Mespiloerinus* (517), *M. forbesianus* (pl.); SPRINGER.

Metaerinus r[ot]undus; †NICHOLS (49): length of stem, movements; DOFFIN (252 fig., 268).

†*Metichthyoerinus* **gen. n.** of *Ichthyoerinae* for Carboniferous *Ichthyoerini* (479, 517), *M. burlingtonensis* (pl.); SPRINGER, J. Geol. Chicago, **14**.

†*Millerierinus horridus*; ANDRUSOV (131, 134).

†*Nipteroerinus* (519), *N. wachsmuthi* (pl.); SPRINGER.

†*Oligoerinus* (519), *O. asteriaeformis* (pl.); SPRINGER.

†*Onychocrinus*,—*O. exsculptus*, tegmen (474): *O. ulrichi*, tegmen (469), I Br (491); SPRINGER (pl.).

†*Parichthyoerinus* (519), *P. nobilis* (pl.); SPRINGER.

Pentacrinus [incl. *Isoer.*], — †*P. agassizi*; BRYDONE (15, 129).—†*P. (?) antiquus*; LAMANSKY (80, 172).—†*P. astericus* [sic], descr.; WHITFIELD & HOVEY (389, pl.).—†*P. bronni*; BRYDONE (15, 129).—*P. decorus*; REICHENSFELDER. —†*P. gastaldi*; BELLINI (611, 650).—†*P. jurensis*; †*P. nieryensis*; LISSAJOUS (10).—†*P. moniliferus*; RENZ.—†*P. neocomiensis*; HARBORT.—†*P. oceanii* (10); †*P. rollieri* (11); LISSAJOUS.—†*P. scalaris*; RENZ.—†*P. tuberculatus*; GERBER (67); HAUG & KILIAN (13); RENZ.

†*Placites gotlandicus*; SIEMIRADZKI (195, 211, 277, pl. xxi).

†*Phidocrinus*, — *P. stephensi*; DUN (107).—*P. stillaticus*; BEEDE & ROGERS (383).

†*Phimoerinus jouberti*; SPRINGER & SLOCUM.

†*Phylloerinus* cf. *oosteri*; ZOEPFRTZ (199).

†*Pisocerinidae*, gen. n. vide *Hypsoerinus*.

†*Pisocrinus globularis*; MACNAIR (375).

†*Platyrinus*, — *P. bonoensis* (1255, pl. xiii); *P. boonvillensis* (1256, pl. xiv); BEEDE.—*P. cf. expansus* juv.; BATHER in MATLEY (296).

†*Poterioerinus*, — *P. coryphaeus*; BEEDE (p. 1256, pl. xiii).—*P. crassus*; MACNAIR (373, 375).—*P. cf. sigillatus*; GORTANI, 1 (15).

†*Protaxoerinus* gen. n. of *Taxoerinae*, with genotype *Taxoer. oralis*; SPRINGER, J. Geol. Chicago, 14, (519).

†*Pynosaceus*; SPRINGER (475, 484, 491).

†*Rhenocrinus*, gen. n. of *Dendrocrinoidea*, with genotype *R. ramosissimus*, Lower Devon., Hundrückschiefer, Gmünden; JAEKEL in SCHMIDT (544). *R. minae* sp. n., Mid. Devon., Trochitenschiefer, near Letmathe, Westphalia (546, fig., pl.); *R. winterfeldi* sp. n., Mid. Devon., Tonschiefer, Breun (544, fig.); SCHMIDT, Berlin, Zs. D. geol. Ges., 57,

†*Rhipidocrinus perloricatus* sp. n. Mid. Devon., near Letmathe, Westphalia; op. cit. (513, pl.).

†*Rhopalocrinus*; SPRINGER (484, 519).

†*Sagenocerinidae* fam. n. of *Fleribilia*, for *Anisoer.*, *Homaloer.*, *Calpioer.*, *Pynosaceus*, *Choloer.* gen. n., *Sagenoer.*, *Temnoer.*, *Daetyloer.*, *Amphier.* gen. n., *Euryoer.*, *Lithoer.*, *Forbesioer.*, *Wachsmuthier.*, *Nipteroer.*; SPRINGER, J. Geol. Chicago 14, (517).

†*Sagenocrinus* (198): *S. expansus* (pl.); SPRINGER.

†*Seyphocrinus* sp., Nyaungbaw beds, Yemeyé, Upper Burma; REED (86, pl. viii).

†*Seytalocrinus ornatissimus* (Hall), alleged type-specimen figl.; CLARKE, 1. (348, pl. F).

†*Synbathocrinus swallowi*; BEEDE (1262, pl. xiii, xiv).

†*Talarocrinus* cf. *trijugus*, young. (1260, pl. xiii): *T. simplex* (1261, pl. xiii); BEEDE.

†*Taxoerinae*, defined, include *Protaxoer.* gen. n., *Gnorimoer.*, *Meristoer.* gen. n., *Eutaxoer.* gen. n., *Taxoer.*, *Parichthyoer.*, *Syneroer.*, *Oligoer.*, *Onychoer.*; SPRINGER (519).

†*Taxoerinus*, — *T. affinis*, (488): *T. elegans*; (487, 502): *T. intermedius* (490): *T. laevis* (487, 502): *T. macrodactylus* (492): *T. nobilis* (490, 492): *T. oblongatus* (487), probably *Eutaxoer.* (493): *T. orbigny* (492): *T. rigens* (487), probably *Eutaxoer.* (493): *T. shumardianus* (pl.): *T. splendens* (488): *T. wetherbyi* (500); SPRINGER.

†*Temnoerinus tuberculatus* (492, pl.); SPRINGER.

Thaumatocrinus; SPRINGER (497, pl.).

†*Tribrachioerinus corrugatus*; DUN (107).

†*Uintaerinus* sp.; TREACHER & WHITE.

†*Wachsmuthierinus* (519), *W. thiemei* (pl.); SPRINGER.

C. † CYSTIDEA AND EPRIOASTEROIDEA.

Amphoridea rediagnosed; BATHER 4 (7).

Arachnocystis, discussed; BATHER 4 (15).

Aristocystidae diagnosed (7), discussed (12); BATHER 4.

Aristocystis rediagnosed (8); *A. dagon* sp. n. Naungkangyi beds, Sedaw (8, pl. 1); BATHER 4.

Astrocystites ottawaensis, vide *Steganoblastus*; WHITEAVES 2.

Caryocerinidae diagnosed and discussed; BATHER 4 (27).

Caryocrinus, diagnosed and spp. discussed (28) distrib. (29); BATHER 4.—*C.* sp.; REED (33).—*C. aurora* sp. n. Naungkangyi beds, Sedaw (29, pl. ii): *C. avellana* sp. n. Naungkangyi beds, Sedaw (32, pl. ii): *C. bulbulus*, *gorbyi*, *hammelli*, *indianensis*, *milliganae*, *missouriensis*, *ornatus*, *roemerii*, *sphaeroidalis*, *tumidus* (28) *C. turbo* sp. n., Naungkangyi beds, Sedaw (30, pl. ii); BATHER 4. Palaeont. Indica, Calcutta, (n. ser.) 2, Mem. 3.

Caryocystis, name discussed (15): *C. angelini*, synonymy (16): *C. testudinaria*, synonymy (15); BATHER 4.

Cheirocrinus sp.; REED (26, pl. ii).

Codiacystis; BATHER 4 (12).

Craterina Barr.; BATHER 4 (12).

Daetyloecystidae; BATHER 4 (35).

Diploporita rediagnosed and discussed; BATHER 4 (33).

Echinoenerinites [vel *Echinocnerinus*] *angulosus*; LAMANSKY (79, 171, 178).—*E.* cf. *angulosus*; REED (25, pl. ii).—*E. laevigatus* (79, 171, 178): *E. reticulatus* (79, 171, 178): *E. senckenbergi* et var. *interlaevigata* (79, 171, 178); LAMANSKY.—*E.* aff. *senckenbergi*; REED (26, pl. ii).

Echinosphaeridae, diagnosed and discussed; BATHER 4 (11).

Echinosphaerites balticus; EVANS (634).—*E. kingi*; REED (1, 6.): see *Camaroer*; HOLLAND.

Ecocystites? ? *longidactylus*; PACK 292, pl. i.

Fungocystis, discussed; BATHER 4 (36).

Glyptocystis giganteus; LAMANSKY (79, 171).—*G. leuchtenbergi*? HEDSTRÖM & WIMAN (104).

Helioerinus, synonymy (15) diagnosis and discussion (17); BATHER 4.—*H.* sp.; REED (24).—*H. aranea* (17): *H. balticus* (17): *H. burdigalensis* (18): *H. confortatus* (18): *H. fiscella* sp. n. Naungkangyi beds, Sedaw. (21, pl. i): *H. granatum* (17): *H. helmhackeri* (18): *H. orum* (17): *H. qualis* sp. n. Naungkangyi beds, Sedaw (22, pl. i): *H. rouvillei*; (17): *H. rugatus* sp. n. Naungkangyi beds, Sedaw (19, pl. i); BATHER 4. Palaeont. Indica, Calcutta, (n. ser.) 2, Mem. 3.

Hemicosmites oblongus, *H. rugatus*; EVANS.

Lepadocrinus gebhardi; GRABAU (137, fig.).

Mesites [i.e. *Mesocystis*] *pusyreffskii*; LAMANSKY (79, 171).

Protoerinidae diagnosed and discussed; BATHER 4 (35).

Protoerinus diagnosed and discussed (36): *P. sparsiporus* sp. n., Naungkangyi beds, Sedaw and Machinu (36, pl. ii); BATHER 4. Palaeont. Indica, Calcutta, (n. ser.), 2 Mem. 3.

Pyrocystites pirum; BATHER 4 (12).

Rhombifera diagnosed; BATHER 4 (13).

Sphaeronis pomum; HEDSTRÖM & WIMAN (104).—*S. testudinarius*, synonymy; BATHER 4 (15).

Steganoblastus ottawaensis, descriptions of Whiteaves and Bather reprinted; WHITEAVES 2 (316, figs.).

Stribalocystis; BATHER 4 (28).

Trematocystis; BATHER 4 (13).

II. † BLASTOIDEA.

Asteroblastus sublaevis; LAMANSKY (79, 171).

Blastoidocrinus expansa Hall, sub *Streptelasma* Chazy Limest.; RAYMOND (511).

Metablastus? sp., Lower Carboniferous, N.S.W., descr.; TAYLOR (figs.)—*M. wortheni*; BEEDE (1266, pl. xiv).

Pentremites conoideus; SMITH: *P. conoideus* (1263, pl. xxvi): *P. conoideus amplus* (1263, pl. vii): *P. conoideus perlongus* (1263, pl. vii); BEEDE.—*P. godoni*, 4 and 6 rays; SPRINGER (189).—*P. mucallii* sp. n. Carboniferous, Georgia; SCHUCHERT. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **30**, (759, figs.).—*P. verneuili* Roemer non Beadle; THEVENIN in BOULE, Ann. Paleont. Paris, **1** (196).

Sacroblastus rejected; BEEDE (1264).

Tricoclocrinus discussed (1264), stem (1267): *T. meekianus* (1266, pl. xiv): *T. woodmani* (1267, fig.); BEEDE.

Troostocrinus discussed; BEEDE (1264).

K. INCERTAE SEDIS.

† *Bolboporites* sp. nondescr. (80, 178): *B. semiglobosa* (80, 172): *B. triangularis*, et var. *uncinata* (80, 172) LAMANSKY.

† *Loxanella mira*, Cornwall; GREEN & SHERBORN.

VI. VERMIDEA

ARRANGED BY

F. A. POTTS

The groups included under Vermidea are—

- (1) PLATYHELMINTHES, NEMERTINEA, MESOZOA ; (2) NEMATHELMINTHES ; (3) CHAETOGNATHA, ROTIFERA, GASTROTRICHA ; (4) ARCHIANNELIDA, POLYCHAETA, OLIGOCHAETA, GEPHYREA, PHORONIS, HIRUDINEA.

For ENTEROPNEUSTA *vide* PROCHORDATA

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TITLES for Vermidea in General.

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Alessandrini, Giulio. 1. Su di una specie del gen. *Ascocotyle* Lss. rinvenuta parassita nel cane. Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (221-224).

Alessandrini, G. 2. Nuovo caso di *Filaria conjunctivae* parassita dell'uomo. Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (233-234).

Alessandrini, G. 3. Il *Bothriocephalus latus* Bremser nella provincia di Roma. Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (231-232).

Anley, F. E. *Ascaris lumbricoides* and Appendicitis. Brit. Med. J., London, **1906**, 1, (677-678).

Annandale, N[elson]. Notes on the Fresh-water Fauna of India, No. V. Some animals found associated with *Spongilla Carteri* in Calcutta. Calcutta, J. and Proc. As. Soc. Beng., **2**, 1906, (187-196).

Augener, Hermann. Westindische Polychaeten. [Reports on the results of dredging, under the supervision of Alexander Agassiz, in the gulf of Mexico and the Caribbean Sea. . . .] Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **43**, 1906, (11. + 91-196 + 8 l., 8 pls.).

Ariola, Vincenzo. *Monostoma filicollae* Rudolphi e *Distoma okeni* Kolliker. Zool. Anz., Leipzig, **30**, 1906, (185-186).

Askanazy, M. Weitere Mitteilungen über die Quelle der Infektion mit *Distomum felinum*. Königsberg. Schr. physik. Ges., **46**, (1905), 1906, (127-131).

(N-9720 a)

Babes, V[ictor]. Ein 21 Jahre alter Fall von Trichinose mit lebenden Trichinen. Centralbl. Bakt., Jena, Abt. 1, **42**, Originale, 1906, (541-545, 616-619).

Bächstädt, [Johann]. Die Helminthen und ihre Entwicklungsformen als Augenparasiten, mit besonderer Berücksichtigung der periodischen Augenentzündung des Pferdes. Zs. Veterinärk., Berlin, **18**, 1906, (356-366).

Baetjer, F. H. *vide* Bardeen.

Baldasseroni, Vincenzo. Descrizione dell'*Helodrilus (Allolobophora) targionii*, nuova specie di Lumbricide della Toscana. Mon. zool. ital., Firenze, **17**, 1906, (169-172).

Balfour, Andrew. Eosinophilia in Bilharzia disease and Dracontiasis. Khartoum, Rep. Wellcome Res. Lab., **1**, 1904, (58-60). [Reprinted from Lancet of 13th Decr., 1903.]

Balss, Heinrich. Mitteilungen über einen abnormen ♀ Geschlechtsapparat von *Ascaris lumbricoides* L. Zool. Anz., Leipzig, **30**, 1906, (185-187).

Barbagallo, Pietro. 1. Sugli Elminti parassiti dell'intestino del Tacchino e del Colombo. Cagliari, Boll. Sc. med. nat., **1906**, (143-144).

Barbagallo, P. 2. Nuove osservazioni intorno alla presenza della *Ligula simplicissima* Rud. nella *Tinea vulgaris*. Cagliari, Boll. Sc. nat., **1906**, (162-163).

Bardeen, Charles Russell and Baetjer, F. H. The inhibitive action of the Roentgen rays on regeneration in Planarians. J. Exp. Zool., Baltimore, Md., **1**, 1904, (191-195).

Barnabo, Valentino. Sugli effetti delle inoculazioni negli animali dell'estratto di *Taenia saginata*. Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (72-82, 147-164).

b 11-2

Beauchamp, P. de. 1. Sur la répartition bibliographique des Rotifères durant les dix-huit dernières années. Paris, Bul. soc. zool., **29**, 1904, [1905], (203-207).

Beauchamp, P. M. de. 2. Nouvelles observations sur l'appareil rétro-cérébral des Rotifères. Paris, C.-R. Acad. sci., **143**, 1906, (249-251).

Beauchamp, P. de. 3. Instructions pour la récolte et la fixation en masse des Rotifères. Arch. zool., Paris, sér. 4, **4**, 1906, (Notes et Rev., xxvii-xxxiii).

(**Marais de Beauchamp, P. 4.** Sur l'organe rétro-cérébral de certains Rotifères. Paris, C.-R. Acad. sci., **141**, 1905, (961-963).)

(**Beauchamp, P. de. 5.** Sur un nouveau Rotifère des environs de Paris et sur le genre *Drilophaga* Vejdovski. Paris, Bul. soc. zool., **27**, 1904, (157-160).)

(**Beauchamp, P. de. 6.** Première liste de Rotifères observés aux environs de Paris. Paris, Bul. soc. zool., **30**, 1905, (115-117).)

(**Beauchamp, P. de. 7.** Remarques sur deux rotifères parasites. Paris, Bul. soc. zool., **30**, 1905, (117-124).)

Beddard, Frank E. Report on the Oligochaetes. Zoological Results of the Third Tanganyika Expedition conducted by Dr. W. A. Cunningham, 1904-5. London, Proc. Zool. Sec., **1906**, (206-218).

Beede, J[oshua] W[illiam]. Vermes. [In] Cumings, E. R. and others, Fauna of the Salem limestone, Indiana, Rep. Dept. Geol. Nat. Res., Indianapolis, **30**, (1905), 1906, (1271-1273, pl.).

Bellini, Raffaello. Le varie facie del Miocene medio nelle colline di Torino. Roma, Boll. Soc. geol. Ital., **24**, 1905, (607-650).

Benham, W. B. 1. Additional notes on Earthworms of the North Island of New Zealand. Wellington, Trans. N. Zeal. Inst., **38**, 1906, (239-245).

Benham, W. B. 2. Earthworms from Little Barrier Island. Wellington, Trans. N. Zeal. Inst., **38**, 1906, (248-256).

Billet, A. 1. *Filaria loa* avec œdèmes intermittents, hémomicrofilaries et éosinophilie accentuée. Paris, C.-R. soc. biol., **60**, 1906, (1151-1153).

Billet, A. 2. Un nouveau cas de *Filaria loa* mâle. Paris, C.-R. soc. biol., **61**, 1906, (507-508), et Réunion biologique de Marseille, **1906**, (57-58).

Blanchard, R. Hirudineen aus Montenegro. Prag, Sitz. Ber. Böhm. Ges. Wiss., **1905**, No. 12, (1-3).

Bodong, A. v. Schittenhelm. A[lfred].

Böhmig, Ludwig. Tricladenstudien. I. Tricladida maricola. Zs. wiss. Zool., Leipzig, **81**, 1906, (344-504), T xii-xix.

Bohn, Georges. Attitudes et mouvements des Annélides. Essai de psychophysiologie éthologique. Ann. sci. nat., zool., sér. 9, **3**, 1906, (35-144, av. fig.).

Bolí, K. G. Beitrag zur Kasuistik der thierischen Parasiten. (Russ.) Kazan', Zap. Veterin. Inst., **21**, 1904, (378-381).

Bollinger, O[tto] von. Über *Taenia cucumerina* beim Menschen. D. Arch. klin. Med., Leipzig, **84**, 1905, (50-56).

Borchmann, Karl. Aus der Fleischbeschau. Weitere Finnenfunde (*Cysticercus cellulosae*) beim Reh. Berliner tierärztl. Wochenschr., **1906**, (637-638).

Boring, A. M. vide Stevens and Boring **1** and **2**.

Borini, Agostino. Una interessante anomalia di *Taenia solium*. Torino, Giorn. Acc. med., **69**, 1906, (201-204).

Bourquin, J. Un nouveau *Taenia* (*Davainea*) chez les Prosimiens. Note préliminaire. Centralbl. Bakt., Jena, Abt. I, **41**, Originale, 1906, (222).

(**Brace, Edith M.** Notes on *Acolosoma tenebrarum*. J. Morph., Boston, Mass., **17**, 1901, (177-184).)

Brasil, Louis. 1. Nouvelles recherches sur la reproduction des Grégarines monocystidées. Arch. zool., Paris, sér. 4, **4**, 1905, (69-99, av. pl.).

Brasil, L. 2. *Eleutheroschizon duboseqi*, sporozoaire nouveau parasite des *Sceloporus armiger* O. F. Müller. Arch. zool., Paris, (sér. 4), **4**, 1906, Notes et Rev. (xvii-xxii).

Bresslau, E[rnst]. Eine neue Art der marinen Turbellariengattung *Polycystis*

(*Macrorhynchus*) aus dem Süßwasser. Zool. Anz., Leipzig, **30**, 1906, (415-422).

Breton, M. *vide* Calmette, A.

Bretscher, K. Ueber ein neues Ecnhytraeidengenus. Zool. Anz., Leipzig, **29**, 1906, (672-674).

Brinkmann, August. Studier over Danmarks rhabdocöle og acöle Turbellarier. [Studies on the Danish Rhabdocoela and Acoela, with a German summary.] Kjöbenhavn, Nath. Medd., **1906**, (1-159), 5 pls.

Briot, A. Sur les Turbellariés parasites des Oursins (*Syndesmis echinorum* François). Paris, C.-R. soc. biol., **60**, 1906, (1158-1159).

Broch, Hjalmar. Über die Chaetognathen des Nordmeeres. Nyt Mag. Naturv., Kristiana, **44**, 1906, (145-150), 2 Taf.

Brumpt, E. 1. Mode de transmission et évolution des Trypanosomes des Poissons. Description de quelques espèces de Trypanoplasmes des Poissons d'eau douce. Trypanosome d'un Crapaud africain. Paris, C.-R. soc. biol., **60**, 1906, (162-164).

Brumpt, E. 2. Sur quelques espèces nouvelles de Trypanosomes parasites des Poissons d'eau douce; leur mode d'évolution. Paris, C.-R. soc. biol., **60**, 1906, (160-162).

Brumpt, E. 3. Expériences relatives au mode de transmission des trypanosomes et des trypanoplasmes par les Hirudinées. Paris, C.-R. soc. biol., **61**, 1906, (77-79).

Brumpt, E. 4. Rôle pathogène et mode de transmission du *Trypanosoma inopinatum* Ed. et Et. Sergeant. Mode d'inoculation d'autres trypanosomes. Paris, C.-R. soc. biol., **61**, 1906, (167-169).

Bruns, Hayo *vide* Löbker.

Bryce, O. *vide* Murray, James.

Bugnion, E. et Popoff, N. La spermatogenèse du Lombric (*Lumbricus agricola* Hoffm.). C.-R. ass. anat., 7^e session. (Genève), **1905**, Nancy, 1906, (187-196).

Byrnes, Esther F. The regeneration of double tentacles in the head of *Nereis dumerilii*. Arch. EntwMech., Leipzig, **21**, 1906, (126-129).

Calandruccio, S. Ulteriori ricerche sulla *Taenia nana*. Catania, Boll. Acc. Gioenia, (N. Ser.), **89**, 1906, (15-19); Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (65-69).

Calmette, A. et Breton, M. L'Ankylostomiase. Paris (Masson), 1905, (viii + 247). 21 cm.

Car, Lasar. Das Microplankton der Seen des Karstes. Ann. Biol. Lacustre, **1**, 1906, (50-56).

Carpenter, George H. Injurious insects and other animals observed in Ireland during the year 1905. Dublin, Econ. Proc. R. Soc., **1**, 1906, (321-344, pl. xxx-xxxi).

Cathoire. Filaire du sang chez l'*Uromastix acanthinurus*. Paris, C.-R. soc. biol., **60**, 1906, (1050-1052).

(Caullery, M. *vide* Mesnil, F.)

Caullery, Maurice et Chappellier, Albert. *Anurosporidium Pelseneeri* n. g., n. sp. Haplosporidie infectant les sporocystes d'un Trématode parasite de *Donax trunculus* L. Paris, C.-R. soc. biol., **60**, 1906, (325-328).

Chappellier, Albert *vide* Caullery, M.

Chełchowski, K[azimierz]. Epidemia włośnicy. [Une épidémie de trichinose.] Gaz. lek., Warszawa, **26**, 1906, (626-633, 659-666).

Child, C. M. 1. Studies on regulation. IV. Some experimental modifications of form-regulation in *Leptoplana*. [With bibliography.] J. Exp. Zool., Baltimore, Md., **1**, 1904, (95-133).

Child, C. M. 2. Studies on regulation. V. The relation between the central nervous system and regeneration in *Leptoplana*; posterior regeneration. [With bibliography.] J. Exp. Zool., Baltimore, Md., **1**, 1904, (463-512).

Child, C. M. 3. Studies on regulation. VI. The relation between the central nervous system and regulation in *Leptoplana*; anterior and lateral regeneration. [With bibliography.] J. Exp. Zool., Baltimore, Md., **1**, 1904, (513-557).

Child, C. M. 4. Studies on regulation. VII. Further experiments on form regulation in *Leptoplana*. J. Exp. Zool., Baltimore, Md., **2**, 1905 (253-285).

Child, C. M. 5. The relation between regulation and fission in *Planaria*. Biol. Bull., Wood's Holl, Mass., **11**, 1906, (113-123).

Child, C. M. 6. The development of germ cells from differentiated somatic cells in *Moniezia*. Anat. Anz., Jena, **29**, 1906, (592-597).

Child, C. M. 7. Contribution toward a theory of regulation. I. The significance of the different methods of regulation in Turbellaria. Arch. EntwMech., Leipzig, **20**, 1906, (380-426).

Cholodkowsky, N. Cestodes nouveaux ou peu connus (1^{re} série). Arch. parasit., Paris, **10**, 1906, (331-345).

Cialona, Marco. Osservazioni fatte sullo sviluppo di una Mitraria. Roma, Ric. Lab. anat. norm., **10**, fasc. 3, 1904, (257-261).

Clerc, W. 1. Notes sur les cestodes d'oiseaux de l'Oural. A. Sur quelques espèces d'*Hymenolepis*. Centralbl. Bakt., Jena, Abt. 1, **42**, Orig., 1906, (433-436, 532-535).

Clerc, W. 2. Notes sur les cestodes d'oiseaux de l'Oural. II. Centralbl. Bakt., Jena, Abt. 1, **42**, Orig., 1906, (713-730).

Cobb, N. A. 1. The tapeworms of Australia. Agric. Gaz., Sydney, N.S.W., **16**, 1905, (153-168, 209-219, 311-318, 619-631).

Cobb, N. A. 2. Fungus maladies of the Sugar Cane. IX. Free-living nematodes inhabiting the soil about the roots of cane and their relation to root diseases. Honolulu, Rep. Exp. Sta., Sug. Pl. Ass., Div. Path. Physiol., Bull., **6**, 1906, (163-195).

Coe, Wesley R[oswell]. 1. Nemer-teans of the Hawaiian islands collected by the steamer Albatross in 1902. Washington, D.C., Bull. U. S. Fish Com., **23**, (1903), Pt. 3, 1906, (975-986), pl. 1.

Coe, W. R. 2. A peculiar type of nephridia in nemerteans. Biol. Bull., Wood's Holl, Mass., **11**, 1906, (47-52).

Cognetti de Martiis, L. [This author's papers were recorded in the Zoological Record of last year under MARTIIS, L. C. de.]

Cognetti de Martiis, Luigi. 1. Contributo alla conoscenza della drilofauna delle isole Canarie. Torino, Boll. Mus. zool. anat., **21**, N. **521**, 1906 (1-4).

Cognetti de Martiis, L. 2. Res italicae. XX. Nota sui Lombricidi delle Tremiti. Torino, Boll. Mus. zool. anat., **21**, N. **525**, 1906 (1-3).

Cognetti de Martiis, L. 3. Nuovi dati sui Lombricidi dell'Europa orientale. Torino, Boll. Musei zool. anat., **21**, N. **527**, 1906, (1-18).

Cognetti de Martiis, L. 4. Spedizione al Ruwenzori di S.A. Luigi di Savoia. Un nuovo Oligochete criodrilino (*Alma aloysii Sabaudiae*, n. sp.). Torino, Boll. Mus. zool. anat., **21**, N. **534**, 1906, (1).

Cognetti de Martiis, L. 5. Spedizione al Ruwenzori di S. A. Luigi di Savoia. Nuovi Megascolecidi africani. Torino, Boll. Musei zool. anat., **21**, N. **539**, 1906, (1-3).

Cognetti de Martiis, L. 6. Lombrichi di Madagascar e dell'isola Rinnione. Torino, Boll. Musei zool. anat., **21**, N. **537**, 1906 (1-9).

Cognetti de Martiis, L. 7. Nuove specie dei generi *Pheretima* e *Tritogenia*. Torino, Atti Acc. Sc., **41**, 1906, (777-790).

Cognetti de Martiis, L. 8. Un nuovo caso di ghiandole ermafroditiche negli Oligocheti. Biologica, Torino, **1**, fasc. 1, 1906, (109-129) I tav.

Cognetti de Martiis, L. 9. Gli Oligocheti della Regione Neotropica. Parte I e II. Torino, Mem. Acc. sc., (Ser. 2), **56**, 1906, (1-72, 147-262), 3 tav.

Cognetti de Martiis, L. 10. Res Ligusticae XXXVI. Lombrichi Liguri del Museo civico di Genova. Genova, Ann. Museo Civ. st. nat., (42), 1905-6, (102-127).

Cohn, Ludwig. Zur Anatomie zweier Cestoden. Centralbl. Bakt., Jena, Abt. 1, **40**, Originale, 1906, (362-367).

Collin, An[ton]. 1. [Jahresbericht über] Rotatoria und Gastrotricha für 1899. Arch. Natg., Berlin, **66**, Bd 2, H. 3, 1900 [1906], (584-596).

Collin, A. 2. Beitrag zur Lumbri-ciden-Fauna Ostpreussens. Königs-berg, Schr. physik. Ges., **46**, (1905), 1906, (170-173).

Condorelli Francaviglia, Mario. Maguatta in trachea espulsa un anno dopo che vi era penetrata. Roma, Boll. Soc. zool. ital., (Ser. 2), **6**, 1906 (1-10).

Conklin, Edwin G. Sex differentiation in *Dinophilus*. Science, New York, N.Y., **24**, 1906, (294).

Corti, Emilio. Sulla *Paramermis contorta* di Kohn. Zool. Anz., Leipzig, **29**, 1906, (627-631).

Cravens, Mary R. and Heath, Harold. The anatomy of a new species of *Nectonemertes*. Zool. Jahrb., Jena, Abt. f. Anat., **23**, 1906, (337-356), 2 Taf.

Curtis, Winterton C[onway]. The formation of proglottids in *Crossobothrium laciniatum* (Linton). [With bibliography.] Biol. Bull., Wood's Holl, Mass., **11**, 1906, (202-228), pl.

Daday, E[ugen] von. 1. Zwei bathy-bische Nematoden aus dem Vierwald-städter See. Zool. Anz., Leipzig, **30**, 1906, (413-415).

Daday, Jenő. 2. Édesvízi mikroszkopi állatok Mongoliából. [Mikroskopische Süßwassertiere aus der Mongolei.] Math. Term. Ért., Budapest, **24**, 1906, (34-77). [See Daday, Zool. Rec., 1904.]

Daday, J. 3. Paraguay Mikrofaunájának Alaprajza. Math. Term. Ért., Budapest, **23**, (312-355). [See Zool. Record, 1905.]

Daday, J. 5. Délamerikai halakban élősködő Trematodák. [In südamerikanischen Fischen schmarotzende Trematoden.] Math. Term. Ért., Budapest, **24**, 1906, (503-559).

Daday, J. 6. A délamerikai halakban élősködő Paramphistomida-fajok anatómiai és szövettani viszonyai. [Die anatomischen und histologischen Verhältnisse der in südamerikanischen Fischen schmarotzenden Paramphistomiden.] Math. Term. Ért., Budapest, **24**, 1906, (560-618).

Delbanco, Ernst. Ein Fall von spontan vereitertem Echinokokkus der Oberschenkelmuskulatur. Eine färberische Eigenschaft der Echinokokkusmembran. D. Zs. Chir., Leipzig, **70**, 1903, (100-111), 1 Taf.

Depdolla, Ph. Beiträge zur Kenntnis der Spermatogenese beim Regenwurm (*Lumbricus terrestris* L., Müll.). Zs. wiss. Zool., Leipzig, **81**, 1906, (632-690), T. xxix.

Dévé, F. 1. Les deux Scolex échinococciques. Paris, C.-R. soc. biol., **60**, 1906, (986-988).

Dévé, F. 2. Rôle du "Chien d'abattoir" dans l'étiologie de l'Echinococcose. Paris, C.-R. soc. biol., **61**, 1906, (155-157).

Dimon, Abigail Camp. The regeneration of a heteromorphic tail in *Allobophora foetida*. J. Exp. Zool., Baltimore, Md., **1**, 1904, (349-351).

Dimon, Abigail C. vide Morgan, T. H.

Dogiel, V. *Haplozoon armatum* n. gen. nova sp., der Vertreter einer neuen Mesozoa-Gruppe. Zool. Anz., Leipzig, **30**, 1906, (895-899).

Drago, Umberto. 1. Azione sperimentale dei succhi digerenti sull'involucro delle ova di alcune tenie. Catania, Atti Acc. Gioenia, Ser. 4, **19**, 1906, Mem. III, (1-16).

Drago, U. 2. Azione sperimentale dei succhi digerenti sull'involucro delle ova di alcune tenie. Arch. parasit., Paris, **10**, 1906, (321-331).

Driesch, Hans. Regenerierende Regenerate. Arch. Entw. Mech., Leipzig, **21**, 1906, (754-755).

Duncker, Hans. Ueber die Homologie von Cirrus und Elytron bei den Aphroditiden. (Ein Beitrag zur Morphologie der Aphroditiden.) Zs. wiss. Zool., Leipzig, **81**, 1906, (191-343, mit T. xi).

Edens, [Ernst]. Ueber *Oxyuris vermicularis* in der Darmwand. Centralbl. Bakt., Jena, Abt. 1, **40**, Originale, 1906, (499-500).

Eisig, Hugo. *Ielthyotomus sanguinarius*, eine auf Aalen schmarotzende Annelide. (Fauna a. Flora des Golfes v. Neapel, Monogr. 28.) Berlin (R. Friedländer & S.), 1906, (VIII + 300), 10 Taf. 33 cm.

Elles, Gertrude L. and Slater, I. L. The highest Silurian rocks of the Ludlow district. London, Q. J. Geol. Soc., **62**, 1906, (195-220).

Enriques, Paolo. Sur les vaisseaux sanguins du *Sipunculus nudus*. Arch. zool., Paris, sér. 4, **4**, 1906, Notes et Rev. (xxiii-xxvi).

Enslin, Eduard. *Dendrocoelum cavaticum* Fries. Verbreitung in der schwäbischen Alp. Anatomie nebst Bemerkungen über die Reduktion der Augen. Systematische Stellung. Stuttgart, Jahreshefte Ver. Natk., **62**, 1906, (312-360), 1 Taf.

Fage, Louis. Recherches sur les organes segmentaires des Annélides Polychètes. Ann. sci. nat. zool., sér. 9, **3**, 1906 (261-410), pl. vi-vii.

Fasciolo, Alba. Considerazioni bibliografiche sulle anomalie dei Cestodi. Genova, Atti Soc. ligustica sc. nat. geogr., **17**, 1906, (99-109).

Fauvel, Pierre. *Potamilla incerta* Langh. est une forme jeune de *P. torelli* Mgr. Otocystes de ces Polychètes. Paris, C.-R. ass. franç. avanc. sci., **34**, (Cherbourg, 1905, 2^e Partie), 1906, (550-553); Paris, Bull. ass. franç. avanc. sci., **1905**, (334).

Favre, Jules vide Thielsaud, Maurice.

Fearnside, E. G. vide Shipley, A. E.

Forssell, A. L. Bidrag till kännedom om Echinorhynchena i Finlands Fiskar. Helsingfors, Acta Soc. Fauna Fl. Fenn. **27**, No. 3, 1905, (1-29).

Fowler, G. Herbert. The Chaetognatha of the Siboga Expedition, with a discussion of the synonymy and distribution of the group. Uitkomsten op zool., botan., oceanogr., geol. gebied, verzameld in Ned. O. I. 1899-1900, aan boord H. M. Siboga, onder commando van Lt/z G. F. Tydeman, uitgegeven door Max Weber. [Résultats des explorations zool., botan., océanogr., géol. entreprises aux Indes Néerl. or. 1899-1900, à bord du Siboga, sous le commandement de G. F. Tydeman, publiés par Max Weber.] Livr. 28, Monogr. 21. Leide (E. J. Brill), 1906, (86), 3 pl.

Janicki, C. v. Die Cestoden Neu-Guinea's, Nova Guinea, Résultats de l'Expédition scientifique Néerlandaise à la Nouvelle-Guinée en 1903, sous les auspices de Arthur Wichmann, Chef de l'Expédition. Leide (E. J. Brill), 1906, **5**, Livr. 1, (181-220), 4 Taf.

Fraser, Charles F. The possible importance of Earthworms as a factor in the spread of disease. Lancet, London, 1906, ii, (223-224).

Fühner, Hermann. Notizen zur Biologie von *Convoluta roscoffensis* Graff. Biol. Centralbl., Leipzig, **26**, 1906, (24-26).

Fuhrmann, O. 1. Die Tänien der Raubvögel. Centralbl. Bakt., Jena, Abt. I, **41**, Originale, 1906, (79-89, 212-221).

Fuhrmann, O. 2. Die *Hymenolepis*-Arten der Vögel. Centralbl. Bakt., Jena, Abt. I, **41**, Originale, 1906, (352-358, 440-452).

Fuhrmann, O. 3. Die *Hymenolepis*-arten der Vögel. II. Allgemeiner Teil. Centralbl. Bakt., Jena, Abt. I, **42**, Orig., 1906, (620-628, 730-755).

Fujita, Tsunenobu. Asari ni kiseisuru 2 Shu no Cercaria. [The two species of *Cercaria* parasitic in *Tapes*.] Dobuts. Z., Tokyo, **18**, 1906, (197-203), pl.

Galli-Valerio, B[runo]. Michele Stossich und seine helminthologischen Arbeiten. Centralbl. Bakt., Jena, Abt. I, **42**, Originale, 1906, (47-50).

Gebert, Erich. Die Cysticerken des Zentralnervensystems. Diss. Leipzig (Druck v. B. Georgi), 1906, (51). 23 cm.

Gerould, John H. The development of *Phascolosoma*. (Studies on the embryology of the Sipunculidae II.) Zool. Jahrb., Jena, Abt. f. Anat., **23**, 1906, (77-162), T iv-xi.

Giard, A. 1. Sur la forme hétéronéridienne de *Nereis fucata* Sar. Feuille jeunes natural., Paris, **36**, 1906, [1905], (11-12).

Giard, A. 2. Résistance au jeûne et changements de coloration chez le Némertien *Lineus bilineatus*. Feuille jeunes natural., Paris, (sér. 4), **36**, 1906, [1905], (12).

Goebel, Carl. Über Bilharziakrankheit der weiblichen Genitalien. Zentralbl. Gynäk., Leipzig, **29**, 1905, (1379-1382).

Goeth, Richard A. vide Smith, Allen J[ohn].

Goldschmidt, Richard. Mitteilungen zur Histologie von *Ascaris*. Zool. Anz., Leipzig, **29**, 1906, (719-737).

Gravier, Ch. 1. Sur les Annélides polychètes de la mer Rouge (Sabellides). Bul. Muséum, Paris, **12**, 1906, (33-34, 110-115).

Gravier, C. 2. Sur les affinités de la faune annélidienne de la mer Rouge. Bul. Muséum, Paris, **12**, 1906, (149-151).

Gravier, C. 3. Sur les Annélides Polychètes recueillies par l'Expédition antarctique française (Syllidiens, Hésioniens, Phyllodoceiens, Néréidiens, Euni-ciens). Bul. Muséum, Paris, **12**, 1906, (283-290, 386-391).

Gravier, C. 4. Sur l'*Owenia fusiformis* Delle-Chiaje et sa distribution géographique. Bul. Muséum, Paris, **12**, 1906, (294-296).

Gravier, C. 5. Contribution à l'étude des Annélides Polychètes de la mer Rouge. Nouv. arch. Muséum, Paris, (sér. 4), **8**, 1906, (123-272).

Gravier, C. 6. Sur un prétendu cas de bourgeonnement chez une Annélide Polychète. Paris, Bull. ass. franç. avanc. sci., **1905**, (333); Bul. soc. philom., sér. 9, **8**, 1906, (10-23).

Gravier, C. 7. Sur la faune annélidienne de la mer Rouge et ses affinités. Paris, C.-R. Acad. sci., **142**, 1906, (410-412).

(Gravier, C. 8. Sur un prétendu cas de reproduction par bourgeonnement chez les Annélides polychètes. Paris, C.-R. Acad. sci., **141**, 1905, (905-906).)

(Gravier, C. 9. Sur l'organe nuchal des Chétoptériens. Paris, Bull. ass. franç. avanc. sci., **1904**, (260-261); Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (784-785).)

(Gravier, C. 10. Sur un organe externe annexe des néphridies chez le Chétoptère. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (785-787); Bull. ass. franç. avanc. sci., **1904**, (261).)

(Gregory, Louise Hoyt. Hermaphroditism in *Sabella microphthalmia* Ver-rill. Biol. Bull., Wood's Holl, Mass., **9**, 1905, (287-291).)

Griggs, Robert F. A reducing division in *Ascaris*. Ohio Nat., Columbus, Ohio, **6**, 1906, (519-527).

Grohmann, Werner. Die Abnormitäten in den Proglottiden der Cestoden, insbesondere der Bothriocephaliden. Diss. Giessen (Druck v. von Münchow) 1906, (45). 23 cm.

Gross, Johann Paul. Ueber *Cysticercus racemosus* des Gehirns. Diss. Leipzig (Druck v. B. Georgi), 1903, (31). 22 cm.

Guerin, M. J. Notes préliminaires sur les gisements de mollusques comestibles des côtes de France. Bull. Mus., Monaco, No. 67, 1906, (1-32).

Haase, [Heinrich Wilhelm Karl]. *Oxyuris suis*. Berliner tierärztl. Wochenschr., **1906**, (695-696).

Hallez, Paul. 1. Note préliminaire sur les Triclares maricoles des mers antarctiques et du cap Horn recueillis par l'Expédition Charcot. Bul. Muséum, Paris, **12**, 1906, (395-399).

(Hallez, P. 2. Note préliminaire sur les Polyclades recueillis dans l'Expédition antarctique du "Français." Paris, Bul. soc. zool., **30**, 1905, (124-127).)

Hamill, J. Molyneux. On the mechanism of protection of intestinal worms, and its bearing on the relation of enterokinase to trypsin. J. Physiol., Cambridge, **33**, 1905-1906, (479-492).

Harbert, C. Die Fauna der Schaumburg-Lippe'schen Kreidemulde. Berlin, Abh. geol. Landesanst., **45**, 1905, (1-112).

Hargitt, Charles W[esley]. Experiments on the behavior of tubicolous annelids. J. Exp. Zool., Baltimore, Md., **3**, 1906, (295-320).

Harms, Wilhelm. Abnormitäten des Genitalapparats bei Ascariden. Zool. Anz., Leipzig, **30**, 1906, (487-488).

Heath, Harold vide Cravens, M. R.

Heine, [Paul]. *Oxyuris suis* oder *Trichocephalus*? D. tierärztl. Wochenschr., Hannover, **14**, 1906, (471-472).

Heller, Arnold]. Ueber *Oxyuris vermicularis*. D. Arch. klin. Med., Leipzig, **77**, 1903, (21-28), 3 [2] Taf.

Hempelmann, Friedrich. I. Zur Morphologie von *Polygordius lacteus* Schm. und *Polygordius triestinus* Woltereck, nov. spec. Zs. wiss. Zool., Leipzig, **84**, 1906, (527-618), 5 Taf.

Hempelmann, F. 2. Eibildung, Eireifung und Befruchtung bei *Saccocirrus*. Zool. Anz., Leipzig, **30**, 1906, (775-784).

Henneguy, L. F. Recherches sur le mode de formation de l'œuf ectolécithe du *Distomum hepaticum*. Arch. anat. microsc., Paris, **9**, 1906, (47-88, pl.).

Henry, A. *vide* Railliet, A.

Hérubel, Marcel A. 1. Première contribution à la morphologie et physiologie comparée et à la biostatique des Sipunculides. Paris, Bul. soc. zool., **28**, 1903, (111-125).

Hérubel, M. A. 2. Sur les Sipunculides rapportés par l'Expédition Charcot. Bul. Muséum, Paris, **12**, 1906, (127-128).

Hérubel, M. A. 3. A propos de l'anatomie comparée des Sipunculides. Paris, C.-R. Acad. sci., **142**, 1906, (651-652).

Hérubel, M. A. 4. Sur une tumeur chez un Invertébré (*Sipunculus nudus*). Paris, C.-R. Acad. sci., **143**, 1906, (979-981).

(Hérubel, M. A. 5. Sur la distribution et les affinités réciproques des Sipunculides. Paris, Bul. soc. zool., **28**, 1903, (99-111).)

(Hérubel, M. A. 6. Priapulides des côtes occidentales de la Scandinavie. Paris, Bul. soc. zool., **29**, 1904, (100-109).)

(Hérubel, M. A. 7. Sur quelques points de la morphologie comparée de Priapulides. Paris, Bul. soc. zool., **29**, 1904, (126-129).)

(Hérubel, M. A. 8. Les productions tégumentaires des Sipunculides. Paris, Bul. soc. zool., **30**, 1905, (90-97).)

Hesse, Edmond. Sur un nouveau *Myxocystis* des Oligochètes et sur la place du genre *Myxocystis* Mrazek dans la systématique. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e partie), **1905**, (914-916); Paris, Bull. ass. franç. avanc. sci., **1904**, (268).

Hlava, Stan. Beiträge zur Kenntnis der Rädertiere. I. Über die Anatomie von *Conochiloides natans*. (Leligo). Zs. wiss. Zool., Leipzig, **84**, 1906, (282-326, Taf. xvii-xviii).

Holmes, Bayard [Taylor]. Echinococcus cyst of the liver, with report of a case with operation and recovery. The Journal of the American Medical Association, Chicago, Ill., **42**, 1904, (227-232).

Hornell, James. Report on the *Placuna placenta* pearl fishery of Lake Tampalakamam. Rep. Ceylon Marine. Biol. Lab., Pt. II, 1906, (41-54, annex. II).

Hoyberg, H. M. 1. Bidrag til Trichinens Biologi. [On the biology of the trichina.] Kjöbenhavn (Gads Forlag), 1906, (1-32). 22 x 15.

Hoyberg, H. M. 2. Fütterungsversuche mit trichinösen Fäkalien. (Vorl. Mitt.) Centralbl. Bakt., Jena, Abt. I **41**, Originale, 1906, (210-211).

Huber, J. Ch. Demetrios Pepagomenos über die Würmer in den Augen der Jagdfalken. Zool. Ann., Würzburg, **2**, 1906, (71-73).

Husnot, P. *vide* Sabrazès, J.

Inouye, Zenjiro. Ueber das *Distomum Ringeri*, (Cobbold). Zs. klin. Med., Berlin, **50**, 1903, (120-135).

Isola, Domenico. Nuovo ospitatore dello *Sclerostoma equino*. Genova, Atti Soc. ligustica sc. nat. geogr., **17**, 1906, (85-87).

Issel, Raffaele. 1. Un Enchitreide adamgolla spermatecale unica. (*Federicia gamothea* n. sp.). Modena, Atti Soc. nat. mat., **38**, 1905, (77-79).

Issel, R. 2. Materiali per una fauna dell' Arcipelago toscano. Enchitreidi dell' Isole d'Elba. Genova, Ann. Museo Civ. st. nat., (Ser. 3), **2**, (42), 1905-6, (5-8).

Ivanow, P. 1. Die Regeneration der Segmente bei den Polychäten. Zs. wiss. Zool., Leipzig, **85**, 1906, (1-47, Taf. i-iii).

[Iwanow, P. P.] 2. ИВАНОВЪ, П. П. Регенерация у *Spirographis spallanzanii*. [Die Regeneration bei *Spirographis spallanzanii*.] St. Peterburg, Trav. Soc. nat., **37**, 1, 1906, (166-175); deutsches Rés., (197-200).

Ivanov, P. P. *vide* Iwanow, P. P.

Izuka, Akira. 1. On a case of collateral budding in Syllid Annelid (*Trypanosyllis misakiensis* n. sp.). Annot. Zool. Jap., Tokyo, **5**, 1906, (283-287).

Izuka, A. 2. Kwanchyū-rui no ichi Shinshu ni okeru Gunsei-hatsugahō ni tsuite. [Collateral budding in a new species of Polychaeta.] Dobuts. Z., Tokyo, **18**, 1906, (1-5).

Jacobowa, Lydia. Polycladen von Neu-Britannien und Neu-Caledonien. Jenaische Zs. Natw., **41**, 1906, (113-158, Taf. vii-xi).

Jammes, L. et Mandoul, H. Ténias et flore intestinale. Paris, C.-R. soc. biol., **60**, 1906, (229-230).

Jammes, L. et Martin, A. 1. Développement de l'œuf de l'*Ascaris vitulorum* Goeze en milieu artificiel. Paris, C.-R. Acad. sci., **143**, 1906, (67-70).

Jammes, L. et Martin, A. 2. Remarques au sujet du développement artificiel de l'*Ascaris vitulorum* Goeze. Paris, C.-R. Acad. sci., **143**, 1906, (189-190).

Janet, Charles. Observations sur les fourmis. Limoges, 1904, (68). 16 × 24½.

Jameson, Dr. H. Lyster. On some South African land planarians. London, Rep. Brit. Ass., **1905**, (442).

Janicki, C. v. 1. Studien an Säugetiercestoden. Zs. wiss. Zool., Leipzig, **81**, 1906, (505-597), 6 Taf.

Janicki, C. v. 2. Zur Embryonalentwicklung von *Taenia serrata* Goeze. Zool. Anz., Leipzig, **30**, 1906, (763-768).

Janicki, C. v. 3. Die Cestoden Neu Guineas. Nova Guinea. Resultats de l'Expedition scient. Néerl à la Nouvelle-Guinée en 1903. (E. J. Brill), 1906, **5**, Livr. 1, (181-200, 4 Taf.).

Jennings, H. S. Modifiability in behavior. 2. Factors determining direction and character of movement in the earth-worm. [With bibliography.] J. Exp. Zool., Baltimore, Md., **3**, 1906, (435-455).

Johnstone, James. 1. Internal Parasites and diseased conditions of Fishes. 1. Cestoda. Liverpool, Proc. Trans. Biol. Soc., **20**, 1905-6, (296-318).

Johnstone, J. 2. Internal Parasites and diseased conditions of Fishes. 2. Trematoda. Liverpool, Proc. Trans. Biol. Soc., **20**, 1905-6, (318-323).

Joest, E[rnst]. Studien über Echinokokken-Zystizerkenflüssigkeit. Zs. Infektkrankh., Berlin, **2**, 1906, (10-28).

Joubin, L. 1. Note sur un Némertien recueilli au Tonkin par M. Louis Boutan. Paris, Bul. soc. zool., **30**, 1906, (144-147).

Joubin, L. 2. Notes sur les Némertiens bathypélagiques recueillis par S. A. le Prince de Monaco. Paris, C.-R. Acad. sci., **142**, 1906, (1349-1351).

Jourdain. Scissiparité génitale des Annélides du genre Chétopère. Paris, Bull. ass. franç. avanc. sci., **1905**, (333).

Karg, [Karl Herm.] Die Ankylostomiasis im Königreich Sachsen. Zwickau, Jahresber. Ver. Natk., **33**, (1903), 1905, (1-47, 3 Taf.).

Kammerer, Paul. Der Bachröhrenwurm (*Tubifex rivulorum* Lamarck). Wochenschr. Aquarienkunde, Braunschweig, **3**, 1906, (467-468, 480-482, 491-492).

Katsurada, [Fujiro] und Saito, S. Über eine *Distoma*art im Pankreas der Rinder. Beitr. path. Anat., Jena, **39**, 1906, (501-505).

Kiewiet de Jonge, G. W. Ankylostomum duodenale en ankylostomiasis. [Ankylostomum duodenale und Ankylostomiasis.] Batavia, Genesck. Tijdschrift Ned. Ind., **44**, 1904, (335-341).

Kirkman, Hon. Thomas. VI.—Second list of *Rotifera* of Natal. London, J. R. Microsc. Soc., **1906**, (263-268), pl. xii.

Klaptocz, Bruno. *Polyonchobothrium polypteri* (Leydig). Centralbl. Bakt., Jena, Abt. I, **41**, Originale, 1906, (527-536).

Klunzinger, C. B. Ueber Schlammkulturen im allgemeinen und eigentümliche Schlammgebilde durch einen limicolen Oligochäten insbesondere. Verh. D. zool. Ges., Leipzig, **16**, 1906, (222-227).

Kohn, F. G. Nachtrag zu: Einiges über *Paramermis contorta* (v. Linstow) = *Mermis contorta* v. Linstow. Zool. Anz., Leipzig, **31**, 1906, (64-66).

Korschelt, E[ugen]. Versuche an Lambriciden und deren Lebensdauer im Vergleiche mit anderen wirbellosen Tieren. Verh. D. zool. Ges., Leipzig, **16**, 1906, (113–127).

Kowalewski, M[ieczysław.] **1**. Studya helmintologiczne, część IX. O dwóch gatunkach tasiemców rodzaju *Hymenolepsis* Weinl. (I tabl. podwójna). [Etudes helminthologiques IX, partie. Sur deux espèces de ténias du genre *Hymenolepsis* Weinl.]. Kraków, Rozpr. Akad. **45** B, 1905, (222–238).

Kowalewski, M. **2**. Mitteilungen über eine *Idiogenes*-Species. Zool. Anz., Leipzig, **29**, 1906, (683–686).

Kühn, Hermann. *Cysticercus cellulosae* in den Lungen. Diss. Leipzig (Druck v. B. Georgi), 1905, (26). 21 cm.

Kukuljevic, Josef v. Der *Cysticereus cellulosae* und seine Auffindung am lebenden Schweine. Berliner tierärztl. Wochenschr. **1906**, (626–630).

[**Kulagin**, N. M.] Кулагинъ, Н. М. Жизнь безъ Кислорода. [Das Leben ohne Sauerstoff.] Jetestv. i geogr., Moskva, **11**, 3, (I–11).

Künemann, O[tto]. Rundwürmer (*Rhabditis strongyloides*) als Ursache eines Hautausschlages bei einem Hunde. D. tierärztl. Wochenschr., Hannover, **13**, 1905, (269–270).

Kuwahara, Y. Ueber lebende Hirudineen im Bindehautsack des menschlichen Auges. Centralbl. Augenheilk., Leipzig, **27**, 1903, (262–264).

Ladreyt, F. Sur certains phénomènes de dégénérescence des globules sanguins dans le liquide célomique de *Sipunculus nudus*. Paris, C.-R. ass. franç. avanc. sci., **34**, (Cherbourg, 1905, 2^e Partie), 1906, (601–602).

Laidlaw, F. F. On the Marine Fauna of the Cape Verde Islands, from Collections made in 1904 by Mr. C. Crossland, —The Polyclad Turbellaria. London, Proc. Zool. Soc., **1906**, (705–718), pl. lii.

Langhans, Victor. *Asplancha priodonta* Gösse und ihre Variation. Arch. Hydrobiol., Stuttgart, **1**, 1906, (439–468), 1 Taf.

Laspeyres, Kurt. Ein Fall von *Distomum spathulatum* (Leuckart). Diss. Kiel (Druck v. Schmidt u. Klaunig), 1904, (13). 23 cm.

Lebour, Marie V. Some trematodes in *Mytilus*. Newcastle, Proc. Durham Univ. Phil. Soc. 1906, **2**, (231–238).

Lefevre, George. Further Observations on Artificial Pathenogenesis. Science, New York, N.Y., **23**, 1906, (522–524).

Leiper, Robert T. The influence of acid on guinea-worm larvae encysted in *Cyclops*. Brit. Med. J., London, **1906**, **1**, (19–20).

Liese, Paul. Über das Vorkommen von *Ascaris lumbricoides* im menschlichen Körper, speciell in der freien Bauchhöhle. Diss. Bonn (Druck v. E. Eisele), 1904, (33). 21 cm.

Lillie, Frank R[atray]. Observations and experiments concerning the elementary phenomena of embryonic development in *Chaetopterus*. [With bibliography.] J. Exp. Zool., Baltimore, Md., **3**, 1906, (153–268), 1 pl.

Linstow, O[tto] von. **1**. Neue und bekannte Helminthen. Zool. Jahrb., Jena, Abt. f. Syst., **24**, 1906, (1–20), 1 Taf.

Linstow, [O.] v. **2**. Neue Helminthen. Centralbl. Bakt., Jena, Abt. **1**, **41**, Originale, 1906, (749–752), 1 Taf.

Linstow, [O.] von. **3**. Zwei wenig bekannte Ankylostomen und *Oesophagostomum dentatum*. Centralbl. Bakt., Jena, Abt. **1**, **43**, Originale, 1906, (89–94), 1 Taf.

Linstow, [O.] von. **5**. Gordiiden und Mermithiden des königlichen Zoologischen Museums in Berlin. Berlin, Mitt. zool. Mus., **3**, 1906, (241–248), 2 Taf.

Linstow, O. von. **6**. Nematoden des zoologischen Museums in Königsberg. Arch. Natg., Berlin, **72**, Bd **1**, 1906, (249–258).

Linstow, O. von. **7**. Helminthes from the collection of the Colombo Museum. Spolia Zeylan., **3**, 1906, (163–188), pl. i–iii.

Linstow, O. von. **8**. Parasites from the Gharial (*Garialis gangeticus*, Geoffr.). Calcutta, J. and Proc. As. Soc. Beng., **2**, 1906, (269–271).

Linstow, O. von. **9**. On worms of the Family Gordiidae from Corea. London, Proc. Zool. Soc., 1906, (556).

Livanow, N. *Acanthobdella peledina* Grube, 1851. Zool. Jahrb., Jena, Abt. f. Anat., **22**, 1906, (637-866), 10 Taf.

Löbker, [Karl Jos. Gerh. Maria]. und **Bruns**, Hayo. Ueber das Wesen und die Verbreitung der Wurmkrankheit (Ankylostomiasis) mit besonderer Berücksichtigung ihres Auftretens in deutschen Bergwerken. Berlin, Arb. Gesundheitsamt, **23**, 1906, (421-524).

Loeb, Leo und **Smith**, Allen J. Ueber eine die Blutgerinnung hemmende Substanz in *Ankylostoma caninum*. Centralbl. Bakt., Jena, Abt. I, **40**, Originale, 1906, (738-739).

Loeb, Leo. Ein weiterer Versuch über die die Blutgerinnung hemmende Substanz in *Ankylostoma caninum*. Centralbl. Bakt., Jena, Abt. I, **40**, Originale, 1906, (740-741).

Looss, A. Einige Betrachtungen über die Infektion mit *Ankylostomum duodenale* von der Haut aus. Zs. klin. Med., Berlin, **58**, 1905, (41-83).

Liefmann, H. Beitrag zum Studium der Ankylostomiasis. Ueber den Infektionsmodus und die vermeintliche Giftwirkung der Würmer. Zs. Hyg., Leipzig, **50**, 1905, (349-363).

Lotti, Riccardo. Contributo alla conoscenza dei Distomi parassiti nell'intestino dei pesci della provincia di Roma. Recensione di G. Alessandrini. Roma, Boll. Soc. zool. Ital. Ser. 2, **6**, 1906, (227-228).

Lühe, [Max]. **1.** Die tierischen Parasiten des Elchs. Königsberg, Schr. physik. Ges., **46**, (1905), 1906, (177-180).

Lühe, [M.]. **2.** Ueber das Eindringen von Nematodenlarven durch die Haut. Königsberg, Schr. physik. Ges., **47**, 1906, (97-103).

Lühe, [M.]. **3.** Report on the Trematode parasites from the Marine fishes of Ceylon. London, R. Soc. Rep. Pearl Oyster, **5**, (97-108), pls. i ii.

Magalhaes, P. S. de. Notes d'helminthologie brésilienne. Arch. parasit., Paris, **9**, 1905, (305-318).

Malaquin, Alph. **1.** Sur un Copépode parasite (*Nereicolidæ*). Paris, Bull. Ass. franç. avanc. sci., **1905**, (328).

Malaquin, A. **2.** La développement dans les reproductions sexuelles et asexuelles des Salmacines et des Filo-granes. Paris, Bul. franç. avanc. sci., [Discussion, Pierre Fauvel], **1905**, (332).

Malsen, Hans Freiherr von. Geschlechtsbestimmende Einflüsse und Eibildung des *Dinophilus apatris*. Arch. mikr. Anat., Bonn, **69**, 1906, (63-99), 1 Taf.

Mandoul, H. vide Jammes, L.

Marcinowski, Kati. Zur Biologie und Morphologie von *Cephalobus elongatus* de Man und *Rhabditis brevispina* Claus, nebst Bemerkungen über einige andere Nematodenarten. Berlin, Arb. biol. Anst., **5**, 1906, (215-236).

Marcus, Harry. **1.** Ei und Samenreife bei *Ascaris canis* (Werner) (*Asc. mystax*). Arch. mikr. Anat., Bonn, **68**, 1906, (441-490), 2 Taf.

Marcus, H. **2.** Ueber die Beweglichkeit der *Ascaris*-Spermien. Biol. Centralbl., Leipzig, **26**, 1906, (427-430).

Marro, Giovanni. Sopra una cisti impiantata sulla salpinge contenente uova di *Oxyuris vermicularis*. Torino, Giorn. Acc. med., **64**, 1901, (251-252).

Martin, A. vide Jammes, L.

Martini, E. **1.** Die Nematodenentwicklung als Mosaikarbeit. Anat. Anz., Jena, **29**, ErgH., 1906, (266-274).

Martini, E. **2.** Ueber Subcuticula und Seitenfelder einiger Nematoden. Zs. wiss. Zool., Leipzig, **81**, 1906, (699-766), T. xxxi-xxxiii.

Massa, Donato. Materiali per una revisione del genere *Trochopus*. Napoli, Arch. zool. ital., **3**, 1906, (43-71), 2 tav.

Maule, Václav. Ueber die *Vejdorskyella comata* Mich. und „*Nais hamata* Timm“. Zool. Anz., Leipzig, **30**, 1906, (302-305).

Mayer, Alfred. Zur Kenntnis der Rhachis im Ovarium und Hoden der Nematoden. Zool. Anz., Leipzig, **30**, 1906, (289-297).

Mayer, Wilhelm. Beiträge zur Kenntnis der Hautsinnesorgane bei Rhynchobdelliden. Zs. wiss. Zool., Leipzig, **81**, 1906, (599-631), T. xxvi-xxviii.

Mayer Gmelin, H. Ueber das Auftreten von *Tylenchus devastatrix* in Lupinen und die Bedeutung dieser Tatsache für die landwirtschaftliche Praxis. D. landw. Presse, Berlin, **33**, 1906, (384).

Mazzarelli, Giuseppe. L'attuale infezione da *Tetracotyle percae-fluviatilis* Moul. dei Pesci-persici del lago di Pusiano, e la moria dei Pesci-persici nei laghi di Varese e di Varano nell'anno 1898. Rivista mensile di Pesca, Milano, **8**, 1906, (142-144).

McClendon, J. F. The myzostomes of the 'Albatross' expedition to Japan. [With bibliography.] New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, 1906, (119-130), pl.

McDowall, S. A. A preliminary note on the Maiotic Phenomena in the Eggs of the Hermaphrodite "Angiostomum nigrovenosum" ("*Ascaris nigrovenosa*.") Proc. Camb. Phil. Soc., 1906, **13**, (309-312), pl. iv.

McIntosh, Prof. Notes from the Gatty Marine Laboratory, St. Andrews. No. XXVII, on Annelids and Nemes-teans. Ann. Mag. Nat. Hist., ser. 7, **17**, 1906, (72-81), pls. ii-iii.

Macnair, Peter. The geology of the Ronken Glen and its neighbourhood. Glasgow, Trans. Geol. Soc., **12**, 1906, (362-397), pls. ix-x.

Mégnin, Pierre. Sangsues parasites des Palmipèdes. Arch. parasit., Paris, **10**, 1906, (1905), (71-76).

Meixner, Adolf. Zwei neue Landplanarien (*Geoplana rosenbergi* n. sp. und *Bipalium natunense* n. sp.). Zool. Anz., Leipzig, **29**, 1906, (665-671).

(**Mesnil, F. et Caullery, F.** Comparaison des cycles évolutifs des Ortho-nectides et des Dicyémides. Paris, C.-R. Acad. sci., **141**, 1905, (774-776).)

Metcalf, C. R. vide Parker, G[eorge] H[oward].

Michaelsen, W. Die Oligochaeten der Schwedischen Südpolar-Expedition. Wissensch. Ergeb. Schwed. Südpolar-Exped. **5**, 1905, (1-12), pl. i.

Minkiewicz, Ronwald. Sur le chromotropisme et son inversion artificielle. Paris, C.-R. Acad. Sci., **143**, 1906, (785-787).

Mingazzini, Pio. Ricerche sul vario modo di fissazione delle Tenie alla parete intestinale e sul loro assorbimento. Roma, Ric. Lab. anat. norm., **10**, fasc. 1, 1904, (5-24), 2 tav.

Mola, Pasquale. Di alcune specie poco studiate o mal note di Cestodi. Napoli, Annuario Museo zool., **2**, N. 6, 1906, (1-12), 2 tav.

Monticelli, Fr. Sav. 1. A proposito di una proposta classificazione degli *Acantocefali*. Napoli, Boll. Soc. nat., **19**, (1905), 1906, (217-218).

Monticelli, Fr. Sav. 2. Sul *Cotyl-gaster Michaelis* Montie. Napoli, Annuar Mus. zool., **2**, N. 15, 1906, (1-6).

Moore, J[ohn] Percy. 1. Additional new species of *Polychaeta* from the north Pacific. Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, 1906, (217-260), pl.

Moore, J. P. 2. Descriptions of the two new Polychaeta from Alaska. Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, 1906, (352-355).

Moore, J. P. 3. Hirudinea and Oligochaeta collected in the Great Lakes region. Washington, D.C., Dept. Comm. Lab. Bull. Bur. Fish., **25**, (1905), 1906, (153-172).

(**Moore, J. P. 4.** New species of *Ampharetidae* and *Terebellidae* from the North Pacific. Philadelphia, Pa., Proc. Acad. Nat. Sci., **57**, (1905), 1906, (846-860), pl.)

Morgan, Lilian V. Regeneration of grafted pieces of planarians. J. Exp. Zool., Baltimore, Md., **3**, 1906, (269-294).

(**Morgan, Lilian V. 2.** Incomplete anterior regeneration in the absence of the brain in *Leptoplana littoralis*. Biol. Bull., Woods Holl, Mass., **9**, 1905, (187-193).)

Morgan, T. H. 1. Regeneration of heteromorphic tails in posterior pieces of *Planaria simplicissima*. J. Exp. Zool., Baltimore, Md., **1**, 1904, (385-393).

Morgan, T. H. 2. The Physiology of Regeneration. J. exp. Zool., Baltimore, Md. **3**, 1906, (457-500).

Morgan, T. H. and Dimon, Abigail C. An examination of the problems of physiological "polarity" and of electrical polarity in the earthworm. *J. Exp. Zool.*, Baltimore, Md., **1**, 1904, (331-347).

Mrázek, Al. **1.** Über *Taenia acanthorhyncha* Wedl. (Ein beitrage zur kenntnis der Gattung *Taenia* Kowalevski.) *Prag. SitzBer. Böhm. Ges. Wiss.*, **1905**, No. 7, (1-24), Taf. i-ii.

Mrazek, Al[ois]. **2.** Die Geschlechtsverhältnisse und die Geschlechtsorgane von *Lumbriculus variegatus* Gr. *Zool. Jahrb., Jena Abt. f. Anat.*, **23**, 1906, (381-462).

Muratet, L. Note on *Filaria perforans*. *Pr. Verb. Soc. Linn., Bordeaux*, **61**, 1906, (xlv).

Muratet, L. r. Sabrazès, J.

Murray, James. **1.** Some *Rotifera* of the Sikkim Himalaya. London, *J. R. Microsc. Soc.*, **1906**, (637-644), pls. xviii, xix.

Murray, J. **2.** On a new bdelloid rotifer, *Calledina vesicularis*. London, *J. Quek. Microsc. Cl.*, **9**, 1906, (259-262), pl. xviii.

Murray, J. **3.** Some interesting nematodes in the Forth area. *Ann. Scot. Nat. Hist.*, Edinburgh, **1906**, (164-165).

Murray, J. **4.** The *Rotifera* of the Scottish Lochs. Including descriptions of new species by C. F. Rousselet, F.R.M.S. and D. Bryce, Esq. Edinburgh, *Trans. R. Soc.* **45**, 1905-6, (151-191), pl. i-vi.

Murray, J. **5.** The Bdelloid Rotifera of the Forth Area. Edinburgh, *Proc. Physic. Soc.*, **16**, 1906, (215-229), pl. vii.

Nelson, Jas. A. A note on the occurrence of sex organs in *Aelosoma*. Ohio, *Nat. Columbus, Ohio*, **6**, 1906, (435-438).

Neveu-Lemaire, M. Les lacs des Hautes Plateaux de l'Amerique du Sud. Paris, 8vo. 1906.

Nichols, Henry Windsor. New forms of conerctions. Chicago, Ill., *Pub. Field Columb. Mus. Geol. Ser.* **3**, 1906, (25-54).

Nicoll, William. **1.** Notes on Trematode parasites of the cockle (*Cardium edule*) and mussel (*Mytilus edulis*). *Ann. Mag. Nat. Hist.*, ser. 7, **17**, 1906, (148-155), pl. iv.

Nicoll, W. **2.** Some new and little known Trematodes. *Ann. Mag. Nat. Hist.*, ser. 7, **17**, (513-527), pls. xii, xiii.

Nickerson, Margaret Lewis. Sensory and glandular epidermal organs in *Phascolosoma gouldii*. *J. Morph.*, Boston, Mass., **17**, 1901, (381-398).

Nicoletsky, H. Beiträge zur Morphologie des Nervensystems und Excretionsapparates der Süßwassertrichaden. *Zool. Anz. Leipzig*, **30**, 1906, (702-710).

Noszky, Jenő. Adatok a Cserhát geologiajához (Beiträge zur Geologie des Cserhát). *Földt. Közl. Budapest*, **36**, 1906, (411-417). German translation (463-470).

Odhner, Theodor. Der wahre Bau des „*Synaptobothium copulans*“ v. Linst. 1904, einer von ihrem Autor verkannten Distomide. *Zool. Anz.*, Leipzig, **30**, 1906, (59-66).

Oppermann, [Theodor]. Eine durch *Strongylus rubidus* bedingte Massenerkrankung bei Zuchtsauen in Deutschland. *D. tierärztl. Wochenschr.*, Hannover, **13**, 1905, (469-472).

Orlandi, Sigismondo. La rigenerazione dello *Spirographis spallanzani*. *Studio, Arch. zool.*, Napoli, **3**, 1906, (1-41, con 1 tav.).

Parant. Quelques mots sur le cycle de reproduction du "*Taenia serrata*." *Autun. Bul. soc. hist. nat.* **18**, 1905, (250-252).

Paravicini, G. Anormali proglottidi di *Taenia saginata*. Milano, *Atti Soc. ital. sc. nat.*, **44**, 1906, (264-268).

Parker, G[eorge] H[oward] and Metcalf, C. R. The reactions of earthworms to salts: a study in protoplasmic stimulation as a basis of interpreting the sense of taste. [Cambridge, Mass., *Cont. Mus. Comp. Zool. Harvard Coll.*, No. **180**] *Amer. J. Physiol.*, Boston, Mass., **17**, 1906, (55-74).

Pavoni, Giovanni. Sviluppo precoce degli organi della riproduzione in un nematode, *Ascaris capsularia* Rud., nello stadio di passaggio dalla forma embrionale a quella larvale. Roma, *Boll. Soc. zool. ital.*, Ser. 2, **6**, 1906, (215-220) 1 tav.

Péju, G. v. Raja, H.

Pennetier, Georges. Accroissements des Collections (1898-1905). Vers. Actes Muséum hist. nat. Rouen, **10**, 1906, (29-31).

Pérez, Ch. Différenciations tendineuses épithéliales chez le *Branchellion*. Paris, C.-R. soc. biol., **61**, 1906, (447-448); et Réunion biologique de Bordeaux, **1906**, (61-62).

Perroncito, E. **1.** Sullo sviluppo degli Oxyuridi, loro ubicazione e conseguenze. Torino, Giorn. Acc. med., **66**, 1903, (79-82).

Perroncito, E. **2.** Sull' incapsulamento o incistidamento delle larve di Nematodi allo stato libero. Torino, Giorn. Acc. med., **67**, 1904, (285-291).

Perroncito, E. **3.** Il *Rhabdonema strongyloides* Leuckart (*Anguillula intestinalis* e *Pseudorhabditis stereorialis*). Torino, Giorn. Acc. med., **69**, 1906, (3-5).

Perroncito, E. **4.** Particolarità interessante relativa alle cisti di *Echinococco*. Torino, Giorn. Acc. med., **69**, 1906, (15-16).

Perroncito, E. **5.** Osservazioni fatte sulla *Taenia echinococcus* e sulla rapidità del suo sviluppo dai deutoscicoli. Torino, Giorn. Acc. med., **69**, 1906, (51-52).

(**Perroncito, E.** **6.** Encapsulement des Nématodes à l'état libre. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (873).)

Pierantoni, Umberto. **1.** Una nuova maniera di gestazione esterna della *Pionosyllis pulligera* Krohn. Napoli, Annuario Museo zool. Univ., N. Ser., **2**, N. 3, 1905, (1-2) 1 tav.

Pierantoni, U. **2.** Osservazioni sul genere *Branchiobdella* Odier. Napoli, Annuario Museo Univ., N. Ser., **2**, N. 4, 1906, (1-10) 1 tav.

Pierantoni, U. **3.** Nuovi Disco-drilidi del Giappone e della California. Napoli, Annuario Mus. Univ., N. Ser., **2**, N. 11, 1906, (1-9) 1 tav.

Pierantoni, U. **4.** *Cirrodrilus cirratus*, n. gen., n. sp. parassita dell'*Astacus japonicus*. Napoli, Boll. Soc. nat., **19**, (1905), 1906, (48-51) 1 tav.

Pierantoni, U. **5.** Osservazioni sul genere *Branchiobdella* Odier. Rivista mensile di Pesca, Milano, **8**, 1906, (1-11) 1 tav.

Pierantoni, U. **6.** Sullo sviluppo del *Protodrilus* e del *Saccocirrus*. Mitt. zool. Stat. Neapel, Berlin, **17**, 1906, (515-523).

Pierantoni, U. **7.** Osservazioni sullo sviluppo embrionale e larvale del *Saccocirrus papillocereus* Bobr. Mitt. zool. Stat. Neapel, Berlin, **18**, 1906, (46-72), Taf. iii-iv.

Pintner, Theodor. Das Verhalten des Excretionssystems im Endgliede von *Rhynchobothrius ruficollis* (Eysenhardt). Zool. Anz., Leipzig, **30**, 1906, (576-578).

[**Plotnikov, V.**] **1.** Плотниковъ, В. Къ фаунѣ червей прѣсныхъ водъ окрестностей Бологовской Биологической станціи. [Zur Kenntnis der Süßwasser-Würmer-Fauna der Umgebung von Bologoje]. St. Peterburg, Ber. Süßwasserst. Naturf. Ges., **2**, 1906, (30-38), deutsches Rés., (39-41) Taf. ii.

Plotnikow, W. **2.** Die rhabdocölen Turbellarien der Umgebung des Goktscha-Sees. Zool. Jahrb., Jena, Abt. f. Syst., **23**, 1906, (395-400), Taf. xxii.

Posselt, Adolf. Die Stellung des Alveolarechinokokkus. Münchener med. Wochenschr., **53**, 1906, (537-541, 605-609).

Popoff, N. v. Bugnion, E.

Porta, Antonio. Ricerche anatomiche sull' *Echinorhynchus capitatus* v. Linst.; e note sulla sistematica degli echinorinchi dei cetacei. Zool. Anz., Leipzig, **30**, 1906, (235-271).

Pulvermacher, Theodor. Ein Fall von Cysticercus im IV. Ventrikel. Diss. Leipzig (Druck v. B. Georgi), 1904, (20).

Punnett, R. C. Sex-determination in *Hydatina*, with some remarks on Parthenogenesis. London, Proc. R. Soc. B. **78**, 1906, (223-231), pl. xi.

Queyron, Ph. La ligulose chez les Poissons d'eau douce dans le département de la Gironde. Bordeaux, Actes soc. lin., sér. 6, **10**, **60**, 1905, Proc.-verb. (cv-cviii).

Raillet, A., et Henry, A. Sur les (Esophagostomes des Primates. Paris, C.-R. soc. biol., **60**, 1906, (148-150).

Raja H., et Péju, G. A propos d'un *Tœnia* trouvé vivant dans un œuf de Poule. Paris, C.-R. soc. biol., **61**, 1906, (564-565).

Ransom, B. H. The life history of the twisted wireworm (*Haemonchus contortus*) of sheep and other ruminants. (Preliminary report). Washington, D.C., U. S. Dept. Agric., Bur. Anim. Ind., No. **93**, 1906, (1-7).

Rauther, Max. Beiträge zur Kenntnis von *Mermis albicans* v. Sieb. mit besonderer Berücksichtigung des Haut-Nerven-Muskelsystems. Studien über die Organisation der Nematoden I. Zool. Jahrb., Jena, Abt. f. Anat., **23**, 1906, (1-76), T. i-iii.

Reichensperger, August. Eine neue *Myzostoma*-Art. [Reports on the results of dredging, under the supervision of Alexander Agassiz, in the Gulf of Mexico and the Caribbean Sea.] Cambridge, Mass., Bul. Mus. Comp. Zool., Harvard Coll., **43**, 1906, (11, + 199-201).

Rekstad, J. Jagttagelser pa terras-ser og Strandlinjer i det vestlige og nordlige Norge. Bergens Mus. Aarsbog, **1906**, (1-48).

Retzius, Gustaf. 1. Die Spermien der Enteropneusten und der Nemertinen. In: Retzius, Biolog. Untersuchungen, N.F. XIII, Jena (G. Fischer), 1906, (37-40), Taf. xiii.

Retzius, G. 2. Die Spermien der Turbellarien. In: Retzius, Biolog. Untersuchungen, N.F., **13**, Jena (G. Fischer), 1906, (41-44), 1 Taf.

Retzius, G. 3. Zur Kenntnis der Hautschicht der Nematoden. In: Retzius, Biolog. Untersuchungen, N.F. **13**, Jena (G. Fischer), 1906, (101-106).

Richters, Ferd. Fauna des Moosrasen des Gaussbergs und einiger südlicher Inseln. Drygalski, Deutsche Südpolar-Exped., **9**, Zool. 1, (261-302), Taf. xvi-xx.

Ridewood, W. G. A new species of *Cephalodiscus* (*C. gilchristi*) from the Cape Seas. Cape Town Marin. Invest. S. Africa, **4**, 1906, (173-192).

(N-9720 o)

Rodhain, J. Filaire infectant le sang chez l'*Agama colonorum* dans l'Ubangi. Centralbl. Bakt., Jena, Abt. 1, **42**, Originale, 1906, (515-546).

Roewer, Carl Friedrich. 1. Beiträge zur Histogenese von *Cercariaeum helicis*. Diss., Jena (G. Fischer), 1906, (iii + 43).

Roewer, C. F. 2. Beiträge zur Histologie von *Cercariaeum helicis*. Jenaische Zs. Natw., **41**, 1906, (185-228), Taf. xiv-xv.

Ronchetti, Vittorio. Un nuovo caso di *Hymenolepis nana* (v. Sieb). Torino, Giorn. Acc. med., **69**, 1906, (93-95).

Rosa, Daniele. 1. *Allobophora minuscula* n. sp. Modena, Atti Soc. nat. mat., **38**, 1905, (38-39).

Rosa, D. 2. Descrizione dell' *Allobophora euginii*. Nuova specie di Lumbrico del Modenese. Modena, Atti Soc. nat. mat., **38**, 1905, (133-139).

Rosa, D. 3. Descrizione della *Neumaniella andreinii*, nuovo megascolicide dell'Eritrea. Mon. zool. ital., Firenze, **17**, 1906, (252-254).

Rosa, D. 4. Sui nefridii con sbocco intestinale commune dell' *Allobophora antipae* (Lumbricidi). Archivio zool., Napoli, **3**, 1906, (73-98), 1 tav.

Rosa, D. 5. Il cloragogo tipico degli Oligocheti. Torino, Mem. Acc. sc., Ser. 2, **52**, 1903, (119-144).

Roszbach, Edwin. Beiträge zur Anatomie und Entwicklungsgeschichte der Redien. Zs. wiss. Zool., Leipzig, **84**, 1906, (361-445) 4 Taf.

Rosseter, T. B. On *Drepanidotaenia undulata*. (Krabbe). London, J. Quek. Microsc. Cl., ser. 2, **9**, 1906, (269-274) pl. xix.

Roth, Kurt. Beiträge zur Systematik und Biologie der *Heterakis inflexa*, *resicularis* und *maculosa*, und zur Anatomie und Physiologie gewisser bei ihnen vorkommender Zellen. Diss. Leipzig. Breslau (Druck v. A. Stenzel), 1903, (IX + 40) 3 Taf.

Rousselet, Charles F. Contribution to our knowledge of the *Rotifera* of South Africa. London, J. R. Microsc. Soc., **1906**, (393-414) pls. xiv, xv.

Rousselet, C. F. v. Murray, James.

(**Rouville**, E[tienne] de. Revision des Nématodes libres, marins, de la région de Cette. Paris, Bull. ass. franç. avanc. sci., **1904**, (261); et Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (788-797).)

Sabrazès, J., **Muratet**, L. et **Husnot**, P. Motilité du Scolex échinococcique. Paris, C.-R. Acad. sci., **142**, 1906, (1353-1355).

Saint-Joseph, de. Les Annélides polychètes des côtes de France (Ocean et côtes de Provence). Ann. sci. nat., zool., sér. 9, **3**, 1906, (145-260) pls. i-v.

Saito, S. **1**. Beitrag zur Kenntnis der geographischen Verbreitung des *Distomum hepaticum*. Centralbl. Bakt., Jena, Abt. I, **41**, Originale, 1906, (822).

Saito, S. **2**. Ueber den Einhalt des *Distomum spathulatum* und die morphologische Beschaffenheit seines Embryos. Centralbl. Bakt., Jena, Abt. I, **42**, Originale, 1906, (133-138).

Saito, S. v. **Katsurada**, [Fujiu].

Sala, Luigi. **1**. Intorno ad una particolarità di struttura delle cellule epiteliali che tappezzano il tubo ovarico e spermatico degli Ascaridi. Milano, Rend. Ist. lomb., (Ser. 2), **37**, 1904, (874-887) 1 tav.

Sala, L. **2**. Intorno ad una particolarità di struttura delle cellule epiteliali che tappezzano il tubo ovarico e spermatico degli Ascaridi. Archivio sc. med., Torino, **28**, 1904, (301-317) 1 tav.

Salensky, W. Ueber den Vorderdarm des *Polygordius* und des *Saccocirrus*. Biol. Centralbl., Leipzig, **26**, 1906, (199-204).

Sarle, Clifton J. **1**. *Arthropycus* und *Daedalus* of burrow origin. [Abstract.] Rochester, N.Y., Proc. Acad. Sci., **4**, 1906, (203-210).

Sarle, C. J. **2**. Preliminary note on the nature of *Taonurus*. Rochester, N.Y., Proc. Acad. Sci., **4**, 1906, (211-214).

Scalia, S. I fossili postplioceni di Salustro. Catania, Atti Acc. Gioenia, **19**, Mem. XVII, (1-12).

Schepotieff, A. **1**. Die Pterobranchien. Anatomische und histologische

Untersuchungen über *Rhabdopleura normanii*, Allman., und *Cephalodiscus dodecalophus*. Zool. Jahrb., Jena, Abt. f. Anat., **23**, 1906, (463-534) Taf. xxv-xxxiii.

Schepotieff, A. **2**. Ueber einige Actinotrochen der norwegischen Fjorde. Zs. wiss. Zool., Leipzig, **84**, 1906, (79-94) T. v, vi.

Schiel, [Hugo]. Allerlei aus der Landpraxis. Abmagerung eines Rindes infolge massenhafter Besetzung des Dünndarmes mit Drechslerischen Nematoden. Berliner tierärztl. Wochenschr., **1906**, (435-436).

Schittenhelm, A[lfred] und **Bodong**, A. Beiträge zur Frage der Blutgerinnung mit besonderer Berücksichtigung der Hirudinwirkung. Arch. exper. Path., Leipzig, **54**, 1906, (217-244).

Schleip, Waldemar. Die Entwicklung der Chromosomen im Ei von *Planaria gonocephala* Dug. Zool. Jahrb., Jena, Abt. f. Anat., **23**, 1906, (357-380) T. 23-24.

Schlüter, H. Zur Kenntnis der Anguillula-Erkrankungen beim Menschen. Med. Klinik, Berlin, **1**, 1905, (1305-1308).

Schmitt, Joseph. Monographie de L'île d'Anticosti. Paris, 1904. Chap. XV Vermes, (249-253).

Schneider, Guido. **1**. Beitrag zur Kenntniss der im Uferschlamm des finnischen Meerbusens frei lebenden Nematoden. Helsingfors Acta Soc. Fauna Fl. Fenn., **27**, 1906, (1-42) pls. i, ii.

Schneider, G. **2**. Zur Kenntnis der frei im Finnischen Meerbusen vorkommenden Nematoden. Zool. Anz., Leipzig, **29**, 1906, (625-627).

Schneider, G. **3**. Süßwassernematoden aus Estland. Zool. Anz., Leipzig, **29**, 1906, (679-683).

Schöppler, Hermann. Eier von *Oeyuris vermicularis* L. im Wurmfortsatz. Centralbl. Bakt., Jena, Abt. I, **41**, Originale, 1906, (453-455).

Schorler, B. und **Thallwitz**, J. Pflanzen- und Tierwelt des Moritzburger Grossteiches bei Dresden. Ann. Biol. Lacustre, **1**, 1906, (193-310).

Schreiner, A. und K. E. Neue Studien über die Chromatinreifung der Geschlechtszellen. III. Die Reifung der Geschlechtszellen von *Ophryotrocha puerilis* Clprd. Mecz. Anat. Anz., Jena, **29**, 1906, (465-479).

Schüffner, W. Ueber den neuen Infektionsweg der *Ankylostomalarve* durch die Haut. Centralbl. Bakt., Jena, Abt. 1, **40**, Originale, 1906, (683-692).

Scott, John W. Morphology of the parthenogenetic development of *Amphitrite*. [Diss., Ph.D., University of Chicago.] J. Exp. Zool., Baltimore, Md., **3**, 1906, (49-98) pl. i-iv.

Seely, L. B. Two distomes. [*Pneumomeres complexus* n. sp. and *Renifer elongatus* Pratt.] [With bibliography.] Biol. Bull., Wood's Holl, Mass., **10**, 1906, (249-254).

Sekera, Emil. 1. Ueber die Verbreitung der Selbstbefruchtung bei den Rhabdocoeliden. Zool. Anz., Leipzig, **30**, 1906, (142-153).

Sekera, E. 2. Zur Selbstbefruchtung bei den Rhabdocoeliden. Ein Nachtrag zu dem Artikel in Nr. 5, Bd 30 des Zool. Anzeigers. Zool. Anz., Leipzig, **30**, 1906, (230-231).

Sekera, E. 3. Ueber die Fortpflanzungsfähigkeit der Art *Mesostomum ehrenbergi* in Zahlen. Arch. Hydrobiol., Stuttgart, **2**, 1906, (231-234).

Selensky, W. Zur Kenntnis des Gefäßsystems der *Piscicola*. Zool. Anz., Leipzig, **31**, 1906, (33-44).

Senna, Angelo. Raccolte plantoniche fatte della R. Nave Liguria nel viaggio di circumnavigazione 1903-05. I. 2. Sulla struttura di alcune larve (*Pelagospira*) di Sipunculidi. Firenze, Public. Ist. sup., **1906**, (50-78) 2 tav.

Seurat, L. G. 1. Sur un Cestode parasite des Huîtres perlières déterminant la production des perles fines aux îles Gambier. Paris, C.-R. Acad. sci., **142**, 1906, (801-803).

Seurat, L. G. 2. La Nacre et la Perle en Océanie. Pêche, origine et mode de formation des Perles. Bull. Mus. Monaco, No. **75**, 1906, (1-24).

Shearer, Cresswell. 1. On the structures of the Nephridia of *Dinophilus*. (x-9720 o)

Q. J. Microsc. Sci., London, **1906**, (517-545) pls. xxix. xxx.

Shearer, C. 2. On the existence of cell communications between blastomeres. London, Proc. R. Soc., ser. B, **77**, (498-505) pl. xviii.

Shearer, C. 3. Studies on the development of larval nephridia. Part I. *Phoronis*. Mitt. zool. Stat. Neapel, Berlin, **17**, 1906, (487-511) T. 31-33.

Shipley, A. E. and Hornell, James. Cestode and Nematode Parasites from the marine fishes of Ceylon. London, R. Soc. Rep. Pearl Oyster, **5**, 1906, (13-96) pls. i-vi.

Shipley, A. E. and Fearnside, E. G. The effects of metazoan parasites on their hosts. J. econ. Biol., **1**, 1906, pt. 2, (1-22).

[Sinitzyn, D. F. Свинцидъ, Д. О.] Дистомы рыбъ и лягушекъ окрестностей Варшавы. [Die Distomen der Fische und Frösche in der Umgebung von Warschau.] Varšava, Izv. Univ., **1906**, I, (97-207)—Vide: Sinitzyn, D. F. Beitrag zur Naturgeschichte der Trematoden etc. [Separatausgabe.]

Slater, I. L. See Elles, G. L.

Slocum, Arthur Ware. A list of Devonian Fossils collected in Western New York, with notes on their stratigraphic distribution. Chicago, Ill., Pub. Field Columb. Mus. Geol., Ser. ii, **2**, 1906, (257-265).

Smallwood, William Martin. Notes on *Branchiobdella*. [With bibliography.] Biol. Bull., Wood's Holl, Mass., **11**, 1906, (100-111).

Smidt, Henry. Ueber einen neuen, beim Gibbon gefundenen Strongylus (*Strongylus oratus* v. Linstow). Centralbl. Bakt., Jena, Abt. 1, **41**, Originale, 1906, (646-651).

Soeves, Mette Inga vide Weinberg.

Soulier, Albert. La fécondation chez la Serpule. Arch. zool., Paris, ser. 4, **5**, 1906, (403-489).

Smith, Allen John and Goeth, Richard A. *Ascaris texana*. A note on a hitherto undescribed ascaris parasitic in the human intestine. The Journal of the American Medical Association, Chicago, Ill., **43**, 1904, (542-544).

Smith, Allen J. v. Loeb, Leo.

Spaulding, M. H. Note on the occurrence of *Phoronis* larvae (*Actinotrocha*) at Monterey bay, California. Zool. Anz., Leipzig, **30**, 1906, (184-185).

Stephens, J. W. W. Note on the anatomy of *Gastrodiscus hominis*, (Lewis and McConnell, 1876), Liverpool, Thompson-Yates, Lab. Rep. **7**, 1906, (9-12).

Steinmann, Paul. Geographisches und Biologisches von Gebirgsbachplanarien. Arch. Hydrobiol., Stuttgart, **2**, 1906, (186-217), 1 Taf.

Stevens, N[ettie] M[aria] and Boring, A. M. 1. *Planaria morgani* n. sp. Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, 1906, (7-9), pl. 1.

Stevens, N. M. and Boring, A. M. 2. *Planaria morgani* sp. n. [Reprint.] Bryn Mawr, Pa., Bryn Mawr Coll. Monogr., (Reprint Ser.), **6**, 1906, (7-9), pl.

Stevens, N. M. and Boring, A. M. 3. Regeneration in *Polychoerus caudatus*. [Reprint.] [With bibliography.] Bryn Mawr, Pa., Bryn Mawr Coll. Monogr., (Reprint Ser.), **6**, 1906, (335-346), pl.

Stiles, Ch. Wardell. 1. The American Hookworm (*Necator americanus*) in Guam and China. Baltimore Md. Joh. Hopkins Hosp. Bull. 1906, **17**, (313).

Stiles, C. W. 2. Illustrated key to the cestode parasites of man. Washington, D.C., Treas. Dept., Pub. Hlth. Mar. Hosp. Serv., U. S., Hyg. Lab., Bull., No. **25**, 1906, (104).

Stewart, F. H. The Anatomy of *Oncholaimus vulgaris* Bast., with Notes on two Parasitic Nematodes. Q. J. Microsc. Sci. London, **49**, 1906, (101-150), pls. vii-ix.

Stölting, [Bruno]. Kann ein abgetöteter *Cysticercus* im Auge ohne Schaden verweilen? Graefes Arch. Ophthalm., Leipzig, **59**, 1904, (146-154).

Stossich, Michele. 1. Il *Monostomum mutabile* Zeder e le sue forme affini. Triest, Boll. Soc. Adriat. Sci. Nat., **21**, 1903, (1-40), 9 Taf.

Stossich, M. 2. Note distomologiche. Triest, Boll. Soc. Adriat. Sci. Nat., **21**, 1903, (193-201).

Stossich, M. 3. Note distomologiche. III. Triest, Boll. Soc. Adriat. Sci. Nat., **22**, 1905, (211-227).

Stuertz, [Karl]. *Eustrongylus gigas* im menschlichen Harnapparat mit einseitiger Chylurie. D. Arch. klin. Med., Leipzig, **78**, 1903, (557-587).

Surface, Frank M. The formation of new colonies of the rotifer, *Megalotrocha alboblasticans*, Ehr. [With bibliography.] Biol. Bull., Woods Holl, Mass., **11**, 1906, (182-192).

Szűts, Andor. Adatok a földi giliszta kiválasztó szerveinek alak-és élettanához. [Beiträge zur Morphologie und Physiologie der Segmentalorgane des Regenwurms.] Állatt. Közlem., Budapest, **5**, 1906, (115-130) Taf. iv.

Tempère, J. Parasites internes de l'homme et des animaux domestiques. Microgr. prépar., Paris, **14**, 1906, (40-43), pl. iii.

Tenholt, A[ugust]. 1. Ueber Anchylostomiasis, mit besonderer Berücksichtigung der Loosschen Lehre über die Einwanderung der Larven durch die Haut. Med. Klinik, Berlin, **1**, 1905, (468-474).

Tenholt, A. 2. Ueber die Anchylostomiasis. D. Vierteljschr. Gesundheitspfl., Braunschweig, **38**, 1906, (271-288).

Thalliertz, J. r. Schorler, B.

Théel, Johan Hjalmar. Northern and Arctic Invertebrates in the collection of the Swedish State Museum. II. Priapulids, Echinoids, etc. Stockholm, Vet.-Ak. Handl. **40**, 1906, (1-24), pls. i-ii.

Thiebaud, Maurice et Favre, Jules. Contribution à l'étude de la faune des eaux du Jura. Ann. Biol. Lacustre, **1**, 1906, (57-113).

Thienemann, A. Die Alpenplanarie am Ostseestrand und die Eiszeit. Zool. Anz., Leipzig, **30**, 1906, (499-504).

Thienemann, [J.]. 1. [Naididen der Kurischen Nehrung.] Königsberg, Schr. physik. Ges., **46**, (1905), 1906, (169-170).

Thienemann, J. 2. Untersuchungen über *Taenia tenuicollis* Rud. mit Berücksichtigung der übrigen Musteliden-Taenien. Arch. Natg., Berlin, **72**, Bd 1, 1906, (227-248) 1 Taf.

Treadwell, Aaron L[ouis]. 1. The cytogeny of *Podarke obscura* Verrill. J. Morph., Boston, Mass., **17**, 1901, (399-486).

Treadwell, A. L. 2. Polychaetous annelids of the Hawaiian islands, collected by the steamer "Albatross" in 1902. Washington, D.C., Bull. U. S. Fish. Com., **23**, (1903), Pt. 3, 1906, (1145-1181).

(**Treadwell, A. L. 3.** On the *Heteronereis* stage of *Nereis kobeensis* McIntosh. Biol. Bull., Woods Holl, Mass., **9**, 1905, 226-231.)

Tsakyroglous, M. Zwei Fälle von Blutegeln in der Trachea. Monatschr. Ohrenheilk., Berlin, **38**, 1904, (53).

Vadász, Elemér. Budapest-Rákos Felső Mediterránkorí Faunája. (Über die Obermediterrane Fauna von Budapest-Rakos.) Földt. közl., Budapest, **36**, 1906, (256-283, German translation, 323-351).

Vayssiére, A. Note sur le *Rhodopiana*, nouveau genre de Turbellariés Rhabdocèles, rapporté par l'Expédition antarctique du Dr. Charcot. Bul. Muséum, Paris, **12**, 1906, (149).

Vejdovsky, F. 1. Über die Nephridien von *Acolosoma* und *Mesenchytracus*. Prag. Sitzber. Böhm. Ges. Wiss., **1905**, No. 6, (1-11) Taf. i.

Vejdovsky, F. 2. Zweiter Beitrag zur Hämocoltheorie. Zs. wiss. Zool., Leipzig, **85**, 1906, (48-73) 2 Taf.

Voigt, Walt[her]. Die Ursachen des Aussterbens von *Planaria alpina* im Hunsrück und im Hohen Venn. Bonn. Verh. natthist. Ver., **62**, (1905), 1906, (179-218).

Wagener, O. *Oxyuris vermicularis* in der Darmwand. D. Arch. klin. Med., Leipzig, **81**, 1904, (328-333).

Wagner, Franz von. Zur Oekologie des *Tubifer* und *Lumbriculus*. Zool. Jahrb., Jena, Abt. f. Syst., **23**, 1906, (295-318), T. xii.

Walton, L[ee] B[arker]. *Naididæ* of Cedar Point, Ohio. Amer. Nat., Boston, Mass., **40**, 1906, (683-706).

Ward, Henry B[aldwin]. Studies on human parasites in North America. 1. *Filaria loa*. Lincoln Stud. Zool. Lab. Univ. Neb., No. **63**, 1906, (1-75).

Warren, Ernest. 1. On *Bertramia Kirkmani* sp. nov., a Myxosporidium occurring in a South African Rotifer, Natal Gov. Mus. Ann., **1**, 1906, (7). pl. vi.

Warren, E. 2. Note on *Convoluta roseoffensis* Graff. collected on the Natal Coast. Natal Gov. Mus. Ann., **1**, 1906, (105), pl. xiii.

Watson, Arnold T. A case of regeneration in polychaete worms. London, Proc. R. Soc., ser. B, **77**, No. 518, 1906, (332-336).

Weber, E. F. Rotateurs. (Voyage du Dr. Walter Volz.) Zool. Jahrb., Jena, Abt. f. Syst., **24**, 1906, (207-226).

Weinberg. 1. Kystes vermineux du gros intestin chez le Chimpanzé et les singes inférieurs. Paris, C.-R. soc. biol. **60**, 1906, (446-447).

Weinberg. 2. De la fixation Helminthes sur la muqueuse du tube digestif. Paris, C.-R. soc. biol., **60**, 1906, (796-797).

Weinberg et Soeves, M^{lle}. Inga. Flore intestinale des Helminthes. Paris, C.-R. soc. biol., **61**, 1906, (560-562).

West, W. and West, G. S. A comparative study of the Plankton of some Irish lakes. Tr. Irish Ac., **32**, 1906, (77-116) pls. vi-xi.

(**Wheeler, William Morton.** A new *Myxostoma*, parasitic in a starfish. Biol. Bull., Woods Holl, Mass., **8**, 1905, (75-78).)

Wilhelmi, J. Untersuchungen über die Excretionsorgane der Süßwassertrichladen. Zs. wiss. Zool., Leipzig, **80**, 1906, (544-575) 2 Taf.

Willem, Victor. Deux Trématodes nouveaux pour la faune belge. Bruxelles, Bul. Acad. roy., **1906**, (522-523, 599-612), pl. i.

Willey, A. A Harbour Worm. . . . Spolia. Zeylan., **3**, 1906, (222-224).

Wolf, Eugen. Beiträge zur Entwicklungsgeschichte von *Cyathocephalus truncatus* Pallas. Zool. Anz., Leipzig, **30**, 1906, (37-45).

Woolley, Paul G. The occurrence of *Schistosoma japonicum* vel *cattoi* in the Philippine islands. Philippine J. Sci., Manila, P.I., **1**, 1906, (83-90) pl.

Yerkes, Ada Watterson. Modifiability of behavior in *Hydroides dianthus*, 5. J. Comp. Neur. Psych., Granville, Ohio, **16**, 1906, (441-449).

Yoshida, Sadao. Niwatori ni kiseisuru Jōchyūni *Davainea*. [The species of *Davainea* parasitic in poultry.] Dobuts. Z., Tokyo, **18**, 1906, (173-185, 203-206), pl.

Zeleny, Charles. Experiments on the localization of developmental factors in the nemertine egg. J. Exp. Zool., Baltimore, Md., **1**, 1904, (293-329).

Zur Strassen, Otto. Geschichte der T-Riesen von *Ascaris megaloccephala* als Grundlage zu einer Entwicklungsmechanik dieser Spezies. [Analytischer u. allg. Tl.] Zoologica, Stuttgart, Heft 40, Lfg 2 (= Bd 17, Lfg 2), 1906, (38-312).

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Rhabdocoeliden Verbreitung der Selbstbefruchtung, **SEKERA, Zool. Anz., 30, (142-153); Zool. Anz., Leipzig, 30, (230-231).**

Danish Rhabdocoela. **BRINKMANN, Kjobenhavn, Nath. Medd., 1906, (1-159) 5 pls.**

Castrada ophthalmalma sp. n. Bologoje, **PLOTNIKOV, St. Peterburg, Ber. Süßwasserst. Naturf. Ges., 2, (30-38 + deutsch. Rés. 39-41) Taf. ii.**

Convoluta roscoffensis Biologie. **FÜHNER, Biol. Centralbl. 26, (24-26); occurrence on Natal coast. WARREN Natal Gov. Mus. Ann. 1, (105, pl. xiii).**

Mesostoma armeniicum sp. n., Kaukasien, PLOTNIKOW, Zool. Jahrb., Syst., **23**, (396) pl. xxii f. 1, 2.—*M. bologoricense* sp. n. Bologoje, PLOTNIKOV, St. Petersburg, Ber. Süßwasserst. Naturf. Ges., **2**, (30–38 + deutsch. Rés. 39–41) Taf. ii.—*M. ehrenbergi* Fortzpf. pflanzenfähigkeit, SEKERA, Arch. Hydrobiol., **2**, (231–234).

Polycystis (Macrorhyncheus) goettei sp. n., Süßwasser. Strassburg. BRESSLAU, Zool. Anz., **30**, (416).

Polychocerus caudatus regeneration. STEVENS and BORING, Bryn Mawr, Pa., Bryn Mawr Coll. Monogr. **6**, (335–346 pl.).

Spydesmis echinorum. In *Sphaerichinus* and *Strongylocentrotus*. BRIOT, Paris, C.-R. soc. biol., **60**, 1906, (1158–1159).

Vortex erivanicus (397) pl. xxii fig. 3–4, *kessleri* (398 pl. xxii fig. 5–6) *caucasicus* (398 pl. xxii fig. 7), spp. n., Kaukasien, PLOTNIKOW Zool. Jahrb. Syst. **23**.—*V. (Castrella) bologoricensis* sp. n. Bologoje, PLOTNIKOV, St. Petersburg, Ber. Süßwasserst. Naturf. Ges., **2**, (30–38 + deutsch. Rés. 39–40) Taf. ii.—*V. virgulifer* sp. n., Bologoje, PLOTNIKOV, T.c. (30–38).

TRICLADIDA.

Süßwassertricladien Morphologie des Nervensystems und Excretionsapparates, NICOLETZKY Zool. Anz., **30**, (702–710).—Excretionsorgane WILHELMI, Zs. wiss. Zool. **80**, (544–575) T. xxix–xxx.

Aecros maculatus sp. n. Antaretique. HALLEZ, Paris, Bul. soc. zool., **30**.)

Amblypana spp. n. from Natal. JAMESON, Lond. Rep. Brit. Ass. 1905 (442).

Bipalium natunense sp. n. Gross-natuna, MEIXNER, Zool. Anz. **29** (668).

Dendrocoelum caratium, Verbreitung in schwäbischen Alp., Anatomie. ENSLIN, Stuttgart, Jahreshefte Ver. Natk., **62**, (312–360), 1 Taf.—*D. lacteum* excretory organs WILHELMI Zs. wiss. Zool., **80**, (544–575) T. xxix–xxx.

Geoplana rosenbergi sp. n. Peru, MEIXNER Zool. Anz. **29** (665).

Phagocata gracilis, regeneration of grafted pieces. MORGAN J. Exp. Zool. **3** (269–294).

Planaria alpina Aussterben im Hunsrück u. Hohen Venn. VOIGT, Bonn, Verh. nathist. Ver., **62** (179–218); im Eiszeit. Lebensgeschichte. THIENEMANN, Zool. Anz., **30**, (499–504); *P., gonocephala*, torra excretory organs. WILHELMI Zs. wiss. Zool. **80** (544–575) T. xxix–xxx; *P., polychroa*, lactae Nervensystem u. Excretionsystem. NICOLETZKY, Zool. Anz. **30** (702–710); *P., gonocephala* Geographisches und Biologisches. STEINMANN, Arch. Hydrobiol., **2**, (186–217) Taf. ii.—*P. gonocephala* Chromosomen im Ei, SCHLEIP, Zool. Jahrb., Abt. f. Anat., **23**, (357–380) T. xxiii–xxiv.—*P. maculata* regeneration of grafted pieces. MORGAN J. Exp. Zool. **3** (269–294); and sp. n. California, relation between regulation and fission. CHILD Biol. Bull. **11** (113–123).—*P. morgani* sp. n. Pennsylvania. STEVENS and BORING, Bryn Mawr Coll. Monogr., **6**, (7–9) pl.; sp. n. Pennsylvania. STEVENS and BORING, Philadelphia Proc. Acad. **58**, (7–9) pl. 1.—*P. simplicissima* Regeneration. MORGAN, J. Exp. Zool., **1**, (385–393).

Polyelis cornuta von Gebirgsbach. Verbreitung. STEINMANN Arch. Hydrobiol. **2** (186–217) Taf. ii.—*P. cornuta*, nigra Nervensystem u. Excretionsystem. NICOLETZKY, Zool. Anz. **30** (702–710).—*P. nigra* excretory organs. WILHELMI Zs. wiss. Zool., **80**, (544–575) T. xxix–xxx.

Procerodes jaqueti sp. n., Schwarzes Meer, BÖHMIG, Zs. wiss. Zool., **81**, (350) T. xvi fig. 2 xix fig. 8.—*P. wandeli* (395), *marginata* (397) spp. n. Antaretique, HALLEZ Bul. Muséum **12**.

Rhodoplana gen. n. *wandeli* sp. n. Wandel I. VAYSSIÈRE Bul. Museum **12** (149).

Sabussowia gen. n. für *Planaria dioica* Clap. 1863 BÖHMIG Zs. wiss. Zool. **81**, (359) T. xii–xix.

Stylochus albus sp. n. Antaretique, HALLEZ Paris Bul. soc. zool., **30**.)

Stylostomum antareticum punctatum spp. n. Antaretique HALLEZ T.c. **30**.)

POLYCLADIDA.

Dieteros gen. n., *pacificus* sp. n. New Caledonia. JACUBOWA, Jenaische Zs. Natw., **41**, (144–148) Taf. x, figg. 2–5 xi, fig. 5.

Latocestus plehni **sp. n.** C. Verde Is. LAIDLAW London Proc. Zool. Soc. **1906** (711-712).

Leptocera **gen. n.**, *delicata* **sp. n.** New Britain. JACUBOWA, Jenaische Zs. Natw. **41** (135-139) taf. viii, fig. 10-11, ix, fig. 1, xi, fig. 7-8.

Leptoplana, form regulation. CHILD J. Exp. Zool. **1** (95-133, 463-557), **2**, 253-285).—*L. graffii* **sp. n.** C. Verde Is. LAIDLAW London Proc. Zool. Soc. **1906** (708-700).—*L. suteri* **sp. n.** New Zealand, JACUBOWA, Jenaische Zs. Natw. **41** (150) Taf. x, figg. 7-9, xi, fig. 6.—(*L. littoralis* regeneration in absence of brain. MORGAN, Biol. Bull. **9** (187-193).)

Mesocoela **gen. n.**, *caledonica* **sp. n.** New Caledonia. JACUBOWA, Jenaische Zs. Natw. **41** (141-144) Taf. ix fig. 8 x fig. 1-6.

Notoplana willeyi **sp. n.** New Britain. JACUBOWA, T.c. (131-135) Taf. viii figg. 8-9 xi fig. 9.

Paraplanocera laidlawi **sp. n.** New Britain. JACUBOWA, Jenaische Zs. Natw., **41**, (115-121, taf. vii, fig. 1-9).

Prosthecceraeus vittatus spermatozoa. RETZIUS Retzius Biol. Untersuchungen. **13** (43) Taf. xiv. figg. 2-3.

Tranquifelsia, affinities of genus. *T. elongata* **sp. n.** C. Verde Is. LAIDLAW. London Proc. Zool. Soc. **1906**, (714-718) pl. lii, figg. 4-5.

Zygantoplana **gen. n.** *verrilli* **sp. n.** C. Verde Is. Structure. LAIDLAW, T.c. (709-711) pl. lii figs. 1, 2.

(b) Trematoda.

Acanthochoasmus, Artübersicht, StOSSICH, Triest, Boll. Soc. Adriat. Sci. Nat. **22** (211-227).—*A. inermis* **sp. n.**, Golf von Triest, StOSSICH, T.c. (211-227).

Acanthocolpus **gen. n.** *Acanthocolpinac* **sub. fam. n.** *liodorus* **sp. n.** (100 pl. 1, figg. 7-8); from Ceylon fishes. LÜHE London, R. Soc. Rep. Pearl Oyster. **5**.

Acanthocotyle branchialis **sp. n.** in ray. WILLEM, Bruxelles, Bul. Acad. roy. **1906**, (522, 599-607) pl. i. figg. 1-10.

Allocreadinum, Uebersicht über marine Arten, StOSSICH, Triest, Boll. Soc. Adriat. **22** (211-227).—*A. alacre* **nom. n.**

für *Distomum alacre* Looss, *A. characis* **nom. n.** für *D. characis* Stoss., *A. mormyri* **nom. n.** für *D. mormyri* Stoss., *A. umbrinae* **nom. n.** für *D. umbrinae* Stoss. StOSSICH, T.c. (211-227).—*A. dubium* **sp. n.**, Golf von Triest, StOSSICH, T.c. (211-227).

Anaporrhadum largum **sp. n.** from Rhinoptera javarica Ceylon. LÜHE, London, R. Soc. Rep. Pearl Oyster, **5**, (104-6), pl. ii, fig. 17.

Aporehis **gen. n.** für *Echinostomum croaticum* Stoss., StOSSICH, Triest, Boll. Soc. Adriat. Sci. Nat. **22** (211-227).

Ascoctyle italica **sp. n.** nel cane. ALESSANDRINI, Roma, Boll. Soc. zool. ital., **6**, (221-224).

Bilharzia; disease caused by: eosinophilia. BALFOUR, Rep. Wellcome Res. Lab. **1** (58-60).—*B. hacmatobia* infection of female genitalia. GOEBEL, Zentralbl. Gynäk., **29**, (1379-1382).

Bucephalus haimeanus sporocysts infected by Haplosporidian CAULLERY et CHAPPELLIER, Paris, C.-R. soc. biol., **60**, (325-328).

Cercaria armata, aus *Limnacus stagnalis*, *echinata* aus *Paludina rivipara* anatomy and development of redia-stage. ROSSBACH, Zs. wiss. Zool. **84** (361-445) Taf. xvi-xix.—*C. helvetic*, Histogenese. ROEWER. Diss. Jena. 1906.—*C. lutea* sporocysts infected by Haplosporidia. CAULLERY et CHAPPELLIER. Paris, C.-R. soc. biol. **60**, (325-328).

Chiorehis dilatatus, (551), *papillatus* aus *Colossoma brachypoma*, Paraguay, (554), **spp. n.**, DADAY, Math. Termt. Ért., **24**.

Clinostomum africanum **sp. n.**, darm eines Fisches GALLI-VALERIO, Centralbl. Bakt., Abt. 1, **42**, Orig. (49).

Cotyllogaster Michaelis. MONTICELLI, Napoli, Annuar. del Mus. zool. Univ., **2**, (1-6).

Cyllocolinae, **subfam. n.** *Monostomidarum*, StOSSICH, Triest, Boll. Soc. Adriat. **21** (1-10).

Cyllocolium arcuatum, *mutabile*, Beschreibung und Abbildung, StOSSICH, Triest, Boll. Soc. Adriat. Sci. Nat., **21**, (1-40, 9 Taf.) [*Trematoda*].—*C. adolphi* Sibirien, *brasilianum*, Brazil, *exile*, *oropunctatum*, Italien, Deutschland, *problematicum*, Aegypten, *C. robustum* **spp. n.** StOSSICH, T.c. (1-40).

Diplodiscus marenzelleri sp. n., In *Myletes*, aus Süd-Amerika, (508), DADAY, Math. Termt. Ért., 24.

Diphtherostomum gen. n. *brusinae* and *luteum*, StOSSICH, Triest, Boll. Soc. Adriat. Sci. Nat. 21 (193-201). [*Trematoda*.]

Distomi dei Pesci di Roma. LOTTI, Roma Boll. Soc. zool. Ital. 6 (227-8).

Distomum veliporum, *betencourti*, Beschreibung, StOSSICH, Triest Boll. Soc. Adriat. 21 (193-201). [*Trematoda*].—*D. caudatum*, histology of cercaria form. ROEWER, Jenaische Zs. Natw., 41, (185-228) xiv-xv.—*D. felineum*, *Idus idus* source of infection. ASKANAZY, Königsberg, Schr. physik. Ges., 46 (127-131).—*D. hepaticum* mode de formation de l'œuf ectolécithe. HENNEGUY, Arch. anat. microsc., Paris, 9, (47-88) pl.; geographischen Verbreitung. SAITO, Centralbl. Bakt., Abt. 1, 41, Orig. (822).—*D. leptostomum* Olss. (= *caudatum* Linst.) ROEWER, Beiträge zur Histogenese von *Cercariaeum heliciis*. Jena, (iii + 43).—*D. pancreaticum* sp. n., in Pankreas der Rinder. KATSURADA und SAITO, Beitr. path. Anat., 39, (501-505).—*D. quadrangulatum* sp. n., In *Myletes bidens*, Süd Amerika, (504), DADAY, Math. Termt. Ért., 24.—*D. rinjeri* INOUE, Zs. klin. Med., 50, (120-135).—*D. spathulatum* Einhalt. SAITO, Centralbl. Bakt., Abt. 1, 42, Orig. (133-138); LASPEYRES, Diss. Kiel 1904.—*D. turgidum* from *Rana esculenta*, Belgium. WILLEM, Bruxelles, Bull. Acad. Roy. 1906, (223, 607-610) pl. i; figg. 11-13).—*D. gulosum*. Mackerel. JOHNSTONE, Liverpool, Proc. Trans. Biol. Soc. 20 (319-321).

Echinostomum secundum sp. n. from *Larus ridibundus*. NICOLL Ann. Mag. Nat. Hist. 17 (515-518) pl. xii figg. 1-3.—*E. imbutiforme* on *Labrax lupus*. JOHNSTONE, Liverpool Proc. Trans. Biol. Soc. 20, (321-323).

Epibdella (*Benedenia*) *macrocolpa* sp. n. (97, pl. i figg. 1-3.) *Rhinoptera javanica*. Ceylon LÜNE London, R. Soc. Rep. Pearl Oyster 5.

Gastris gen. n. *consors* sp. n. (103) pl. ii figg. 13-16 from *Tetrodon stellatus* Ceylon. LÜNE. London, R. Soc. Rep. Pearl Oyster 5.

Gastrodiscus hominis Anatomy. STEPHENS Liverpool Thompson Yates Lab. Rep. 7, (9-12).

Haematotrephus gen. n. *fasciatus*, *phaneropsolus*, Japan, *similis*, Aegypten, spp. nn., StOSSICH, Triest, Boll. Soc. Adriat. 21 (1-40).

Hemistomum attenuatum sp. n. aus *Buteo vulgaris*. LINSTOW, Zool. Jahrb. Syst. 24 (11), T. i. fig. 13.

Lepoercadium gen. n. for *Distomum pegorehis*, *album* StOSSICH. Triest, Boll. Soc. Adriat. 21 (193-201).

Leueithodendrium (*Brachyvelium*) *somateriae*. Cercaria form in *Mytilus edulis* LEBOUR Durham, Univ. Philos. Soc. Proc. 2, (231-238).—*L.* in cockle and mussel. NICOLL, Ann. Mag. Nat. Hist. 17 (148-155) pl. iv.

Lyperosomum squamatum sp. n. from *Dissura episcopus* LINSTOW. Spolia Zeylan. 3, (174) pl. i, fig. 18.

Microrehis gen. n. Verwandt mit *Diplodiscus* und *Pseudocladorehis*, *megacotyle* (Dies.), *ferrum equinum* (Dies), Beschreibung, (515), DADAY, Math. Termt. Ért., 24.

Monostomum, formae dubiae, StOSSICH, Triest, Boll. Soc. Adriat. 21 (1-40).—*M. filicollae* Rudolphi verschieden von *Distoma okeni* Kolliker. ARIOLA, Zool. Anz., 30, (185-186).

Ophthalmophagus gen. n., *singularis* sp. n., Oesterreich, StOSSICH, Triest, Boll. Soc. Adriat. 21, (1-40).

Paramphistomidae, Anatomie und Histologie, DADAY, Math. Termt. Ért., 24, (560-618).

Pneumonoeces complexus sp. n. from *Rana pipiens*. SEELY, Biol. Bull., 10, (249-252).

Pseudocladorehis gen. n. Verwandt mit *Cladorehis* und *Microrehis cylindricus* (Dies), (529), *nephrodorehis*, (535), *macrostomus*, (540), spp. n., aus *Myletes*, Süd Amerika. DADAY, Math. Termt. Ért., 24.

Psilostomum redactum sp. n. from *Gasterosteus aculeatus*. NICOLL, Ann. Mag. Nat. Hist. 17, (525-527) pl. xiii fig. 9.

Renifer elongatus. SEELY, Biol. Bull., 10, (253).

Schistorchis **gen. n.** (Acanthocolpinae **sub. fam. n.**) *carneus* **sp. n.** (101), pl. i, ii figg. 9-12). LÜHE London R. Soc. Rep. Pearl Oyster 5.

Schistosoma japonicum vel *cattoi* in the Philippine islands. WOOLLEY, Philippine J. Sci., **1**, (83-90).

Stephanochasmus ceylonicus **sp. n.** (99) pl. i. figg. 4-6, from *Narcine timlei*. Ceylon. LÜHE London. R. Soc. Rep. Pearl Oyster 5.

Tetracotyle percae-fluviatilis. Pesci-persici del lago di Pusiano . . . MAZZARELLI. Rivista mensile di Pesce Milano **8** 1906 (112-144).

Trochopus: revisione di genere *onchacanthus*, **sp. n.**, Ospite sconosciuto: Trieste (65-66). Massa, Napoli, Arch. zool. ital. **3**, (43-71).

Tristomum megalocotyle **sp. n.** from *Histiophorus*, Ceylon LINSTOW, Spolia Zeylan. **3**, (176) pl. i, figs. 19-20.

Typhlocoelum **gen. n.** for *cucumerinum* Rud. and *flavum* Mehlis, STROSSICH, Triest, Boll. Soc. Adriat. **21** (1-40).—*T. formae dubiae*, STROSSICH, L.c.

Zenporchis **gen. n.** *acanthus* **sp. n.** from *Larus argentatus*, resembles *Distomum pittacium*. NICOLL Ann. Mag. Nat. Hist. **17**, (519-522) pl. xii figg. 4-5, pl. xiii figg. 6-7.

(c) Cestoda.

Cestode parasites of man. (Illustrated key). STILES, Washington, Treas. Dept., Pub. Hlth. U.S., Hyg. Lab., Bull., No. **25**, (104).

Amoebotaenia subterranea **sp. n.** Sorex **sp.** CHLODKOWSKY, Arch. parasit. **10** (344).

Angularia **gen. n.**, *beema* **sp. n.**, dans hironnelles. Oural. CLERC, Centralbl. Bakt. Abt. I **42** Orig. (728).

Anomotaenia trapezoides **sp. n.** from *Crabatinga zonura* FUHRMANN, Centralbl. Bakt. **41** Orig. (212).

Anonchotaenia oriolina **sp. n.** d' *Oriolus galbula* CHLODKOWSKY, Arch. parasit. **10** (332).

Anthemobothrium **gen. n.** *pulehrum* **sp. n.** (73, pl. v figg. 78-79) from *Trygon sephen*, Ceylon. SHIPLEY and HORNEILL London R. Soc. Rep. Pearl Oyster 5.

Anthobothrium crispum (57, pl. iii figg. 45, 46) *rugosum* (78, pl. v fig. 92) **spp. n.** in Ceylon fishes. SHIPLEY and HORNEILL. T.c. — *A. auriculatum*. Anatomy. JOHNSTONE, Liverpool Proc. Trans. Biol. Soc. **20** (311-316), pl. xvi figg. 1, 2.

Aphanobothrium **gen. n.** *catenatum* **sp. n.** from *Phoenicopterus roseus*, Ceylon. LINSTOW Spolia Zeylan. **3**, (186) pl. ii-iii.

Bertia rigida **sp. n.** Neu-Guinea, aus *Phalangista* sp., JANICKI, Nova Guinea, **5**, Livr. 1, (181-200).

Bolborhynchus **gen. n.** (= echinorhynchi dei cetacei) *Capitatus* (v. Linst) Anatomie. PORTA, Zool. Anz., **30**, (235-271).

Bothriocephaliden Abnormitäten in Proglottiden. GROHMANN, Diss. Giessen 1906, (45).

Bothriocephalus latus Roma. ALESSANDRINI, Roma, Boll. Soc. zool. ital. **6**, (231-232).—*B.* (= *Dibothrium*) *punctatus*. Varieties on turbot and brill. JOHNSTONE, Liverpool Proc. Trans. Biol. Soc. **20** (296).

Brochocephalus **gen. n.** *paradoxus* **sp. n.** from *Aegialitis mongolica*, Ceylon LINSTOW Spolia Zeylan. **3**, (183) pl. ii-iii.

Carpobothrium **gen. n.** *chiloscylli* **sp. n.** (54) pl. iii figg. 38, 39, from *Chiloscylidium indicum*, Ceylon. SHIPLEY and HORNEILL London R. Soc. Rep. Pearl Oyster 5.

Cephalobothrium **gen. n.** *aetobatidis* **sp. n.** from *Aetobatis narinari*, Ceylon. SHIPLEY and HORNEILL T.c. (44-45) pl. i figg. 1-4.

Chlamydocephalus **gen. n.**, *namaquensis* **sp. n.** in *Xenopus laevis*. CONN, Centralbl. Bakt., Jena, Abt. I, **40**, Originale, (362-367).

Choanotaenia arquata **sp. n.** dans *Numenius arquatus* CLERC, Centralbl. Bakt. Abt. I **42** Orig. (720).

Cittotaenia bursaria **sp. n.** from *Lepus nigricollis*. Ceylon. LINSTOW Spolia Zeylan. **3** (184) pl. ii figg. 39-40.—*C. zschokkei* **sp. n.** Neu-Guinea, aus *Macropus* sp., JANICKI, Nova Guinea, **5**, Livr. 1, (181-200).

Crossobothrium laciniatum from *Raia batis*. JOHNSTONE Liverpool Proc. Trans. Biol. Soc. **20** (306-308).

Culeitella gen. n., *rapacicola* (83) *crassa* (85) **spp. n.**, from birds of prey. FUHRMANN, Centralbl. Bakt. **41** Orig.

Cyclustera fuhrmanni sp. n. dans *Botaurus stellaris*. CLERC, Centralbl. Bakt. Abt. 1 **42** Orig. (726).

Cysticereus cellulosae beim Reh. BORCHMANN, Berliner tierärztl. Wochenschr., **1906**, (637-638); am lebenden Schweine. KUKULJEVIĆ, Berliner tierärztl. Wochenschr. **1906**, (626-630).

Darainea compacta sp. n., dans *Oriolus galbula*, CLERC, Centralbl. Bakt., Abt. 7 **42** Orig. (725).—*D. polycalcaria* sp. n. from *Corvus macrorhynchos*, Ceylon. LINSTOW, Spolia Zeylan. **3** (180) pl. ii figg. 28-29.—*D. lateralis* sp. n. aus *Galeopithecus rolans*, BOURQUIN, Centralbl. Bakt., Abt. 1, **41** Orig. (222).—*D. (Chapmania) longicirrhosa* sp. n. FUHRMANN, Centralbl. Bakt. **41** Orig. (81).—*D. parva* (? = *Taenia voluta* v. Linstow) (540); *trapezoides* (568), *gracilis* (570), **spp. n.** aus Säugetiere. JANICKI Zs. wiss. Zool. **81**.—*D.* species parasitic in poultry. (Japanese). YOSHIDA, Dobuts. Z., Tokyo, **18**, (173-185, 203-206) pl.

Diagonobothrium gen. n. *asymmetrum* sp. n. from *Myliobatis maculata*, Ceylon, SHIPLEY and HORNELL London R. Soc. Rep. Pearl Oyster **5** (58) pl. iii, fig. 47.

Dilepis recapta sp. n., Oural. CLERC, Centralbl. Bakt. Abt. 1 **42** Orig. (715).—*D. brachyartha* sp. n. oiseaux. CHOŁODKOWSKY, Arch. parasit **10** (337).—*D. oligorchida* sp. n. from *Busarellus nigricollis* FUHRMANN, Centralbl. Bakt. **41** Orig. (215).—*Diorchis ocellusa* sp. n. from *Phoenicopterus roseus* Ceylon LINSTOW, Spolia Zeylan. **3**, (179) pl. ii, figg. 26-27.

Diplochetos rotulus sp. n. from *Sarcophorus malabaricus*, Ceylon. LINSTOW. T.c. (181, pl. ii) figg. 30-31.

Dipylidium aricola sp. n. from Gyps Kolbi. FUHRMANN, Centralbl. Bakt. **41** Orig. (219).

Drepanidotuena caprimulgorum sp. n., FUHRMANN, Centralbl. Bakt. Jena Abt. 1, **41** Orig. (441).—*D. undulata* from *Turdus musicus*. Anatomy and development. ROSSETER London J. Quek. Microsc. Cl. **9** (269-274) pl. xix.

Echinoeotyle tenuis sp. n., CLERC, Centralbl. Bakt. Abt. 1 **42** Orig. (536).

Echeneibothrium javanicum (61, pl. iv. figg. 51-56), *simplex* (80, pl. vi. figg. 95-97), *trifidum* (80, pl. vi. figg. 98-99), *trygonis* (81, pl. vi. fig. 100) *walga* (81, pl. vi. fig. 101) **spp. n.** Ceylon fishes. SHIPLEY and HORNELL, London R. Soc. Rep. Pearl Oyster **5**.—*E. variabile* varieties, JOHNSTONE Liverpool Proc. Trans. Biol. Soc. **20**, (309-313).

Echinobothrium rhinoptera sp. n. (62) pl. iv. figg. 57-59 from *Rhinoptera javanica*, Ceylon. SHIPLEY and HORNELL, London R. Soc. Rep. Pearl Oyster **5**.

Eniochobothrium gen. n. *gracile* sp. n. (63-65) pl. iv. figg. 60-62 from *Rhinoptera javanica*, Ceylon. SHIPLEY and HORNELL, T.c.

Hornellobothrium gen. n. *cobraformis* sp. n. from *Aetobatis narinari*, Ceylon. SHIPLEY and HORNELL T.c. (45) pl. i figg. 5-10.

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Ligula simplicissima: nella *Tinea vulgaris*. BARBAGALLO, Cagliari, Boll. Soc. Sci. nat., **1906**, (162-163); var. *tilicaensis* from *Orestias* S. America. NEVEU LEMAIRE Les lacs des Hauts Plateaux de l'Amerique du Sud. Paris 8vo, 1906, (138).—*L.* chez les Poissons d'eau douce dans le département de la Gironde. QUEYRON, Bordeaux, Actes soc. limn., **60**, Proc. verb. (cv.-cviii).

Linstowia brasiliensis sp. n., Brasilien, *Didelphis brasiliensis* JANICKI Zs. wiss. Zool. **81**, (507).

Moniezia development of germ cells from somatic cells. CHILD, Anat. Anz., **29**, (592-597).—*M. beauforti* sp. n. Neu Guinea, aus *Cyclopsittacus diopthalmus*, JANICKI, Nova Guinea, **5**, Livr. 1, (181-200).

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Taenia, Ricerche sul vario modo di fissazione delle Tenie alla parete intestinale e sul loro assorbimento. MINGAZZINI, Roma, Ric. Lab. anat. norm., **10**, (5-24); (Azione dei succhi digerenti sull'involucro delle ova) DRAGO, Catania, Atti Acc. Gioenia, **19**, Mem. III (1-16).—*T. acanthocephala* Anatomy. MRAZEK Prag. Sitz. Ber. Böhm. Ges. Wiss. 1905, No. 7, (124) Taf. i-ii.—*T. crassicollis* im Darm des Hundes, BOLÍ, Kazaní, Zap. Veterin. Inst., **21**, (378-381).—*T. cucumerina* beim Menschen. BOLLINGER, D. Arch. klin. Med., Leipzig, **84**, (50-56).—*T. diminuta* (?) Athmungsbedingungen, KULAGIN. Jestestv. i geogr., **11**, (1-11).—*T. echinococcus*. spontan vereitertem Echinokokkus der

Oberschenkelmuskulatur färberische Eigenschaft der Echinokokkusmembran. DELBANCO, D. Zs. Chir., **70**, 1903, (100-111) 1 Taf.; (cisti) PERRONCITO, Torino, Giorn. Acc. med. **69** (15-16); transmission by dogs. DÉVÉ, Paris, C.-R. soc. biol. **61**, (155-157); rapidità del sviluppo dai deutoscicoli. PERRONCITO, Torino Giorn. Acc. med. **69**, (51-52); fluid of cysticercus. JOEST, Zs. Infektkrankh., **2**, (10-28); POSSELT, Münchener med. Wochenschr., **53**, (537-541, 605-609); Motilité du Scolex échinococcique. SABRAZÈS, MURATET et HUSNOT, Paris, C.-R. Acad. sci., **142**, (1353-1355); deux variétés de Scolex. DÉVÉ, Paris, C.-R. soc. biol., **60**, (986-988).—*T. heteracantha* sp. n. from *Milvus aegyptius*. FUHRMANX, Centralbl. Bakt. **41** Orig. (220).—*T. litterata* Darm Katze und Hundes. BOLÍ, Kazanĭ, Zap. Veterin. Inst., **21**, (378-381).—*T. nana*: CALANDRUCCIO, Catania, Boll. Acc. Gioenia **89** (15-19).—*T. saginata*: Anormali proglottidi. PARAVICINI, Milano, Atti Soc. ital. sc. nat. **44**, (264-268); Effetti negli animali dell'estratto. BARNARO, Roma, Boll. Soc. zool. ital. **6** (72-82, 147-164).—*T. serrata* Embryonalentwicklung. JANICKI, Zool. Anz., **30**, (763-768); Cycle of reproduction. C. R. séances et excursions. PARANT, Autun, Bul. soc. hist. nat. **18**, (250-252).—*Taenia solium* anomalia, BORINI, Torino, Giorn. Acc. med. **69** (201-204) 2 fig.; cysticercus in den Lungen. KÜHN, Leipzig, 1905, (26); Cysticercus racemosus des Gehirns. GROSS, Diss. Leipzig, 1903, (31).—*T. tenuicollis* und der übrigen Musteliden-Taenien. THIENEMANN, Arch. Natg., **72**, (227-248) 1 Taf.

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(2) NEMERTINEA.

Amphiporus hastatus. St. Andrews. structure. McINTOSH. Ann. Mag. Nat. Hist. **17**, 1906 (78-81).

Carinella annulata spermatozoa. RETZIUS, Retzius Biol. Untersuchungen **13** (40) Taf. xiii figg. 19-30.

Cerebratulus marginatus localisation of developmental factors in the egg. ZELENY, J. Exp. Zool., **1**, (293-329); spermatozoa RETZIUS, Retzius Biol. Untersuchungen, **13** (39) Taf. xiii, figg. 8-11; *C. angulatus* = *marginatus*. bifid examples from Aberdeen and Naples. McINTOSH Ann. Mag. Nat. Hist. **17** 1906 (74-78), pl. ii. fig. 3, pl. iii.—*C. velatus* sp. n. Tonkin, JOUBIN, Paris Bul. soc. zool. **30** (144-147).

Lineus bilineatus resistance au jeûne et changements de coloration. GIARD, Feuille jeunes natural, Paris, **36**, (12).—*L. ruber* phototropism. MINKIEWICZ Paris, C.-R. Acad. Sci. **143**, (785).

Nectonemertes pelagica sp. n., Monterey Bay, California, CRAVENS and HEATH, Zool. Jahrb., Abt. f. Anat., **23**, (337-356) pl. xxi, xxii.

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Planktonemertes grimaldii, alberti zonata rhomboïdalis **spp. n.** Atlantic. JOUBIN Paris, C.-R. Acad. Sci. **142**, (1350).

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Rhynchobothrius ruficollis excretions-system PINTNER, Zool. Anz., **30**, (576–578).

Taeniosoma cingulatum Hawaiian Is. Peculiar type of nephridia. COE, Biol. Bull., **11**, (47–52).—*T. univittatum* (978 pl. i figg. 1–3) *cingulatum* (981 pl. i figg. 4–6), **spp. n.**, Hawaiian Is., COE, Washington, Bull. U. S. Fish Com. **23**.

(3) MESOZOA.

Orthonectides et Dieyémidés Cycles évolutifs des; MESNIL et CAULLERY, **141**, 1905, (774–776).

Haplozoon **gen. n., armatum sp. n.** Parasit von *Travisia forbesi*. DOGIEL, Zool. Anz., **30**, (895–899).

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Anguillula intestinalis, SCHLÜTER, Med. Klinik, Berlin, 1, (1305-1308).

Angiostomum rotundatum sp. n. aus Bufo, LINSTOW Arch. Natg. 72 (256); *A. nigravenosum* maiotic phenomena in eggs of hermaphrodite form. McDOWALL Proc. Camb. Phil. Soc. 13, (309-312), pl. iv.

Ankylostomum caninum eine die Blutgerinnung hemmende substanz. LOEB, und SMITH, Centralbl. Bakt., Abt. 1, 40, Originale, (738-739), (740-741). — *A. duodenale* and ankylostomiasis. CALMETTE et BRETON, L'ankylostomiasis. Paris, 1905 (viii + 247, av. fig.); KIEWIET DE JONGE, Batavia, Geneeskundig Tijdschrift Ned. Ind. 44 (335-341); im Sachsen KARG Quickau, Jahresber. Ver. Natk., 33 (1-47, 4 taf.); in deutschen Bergwerken LÖBKER u. BRUNS, Berlin, Arb. Gesundheitsamt, 23 (421-454); Infektion von der haut, LOOSS Zs. klin. Med. 58 (41-83); TENHOLT Med. klinik, 1 (468-474), D. Vierteljschr. Gesundheitspfl., 33 (271-288); SCHÜFFNER Centralbl. Bakt. Abt. 1, 40, Orig. (683-692); LIEFMANN, Giftwirkung Zs. Hyg., Leipzig, 50, 1905, (319-363).

A. minimum sp. n. from *Felis rubiginosa* Ceylon. LINSTOW. Spolia Zeylan, 3 (170) pl. i, figg. 11-12.

Anthonema gen. n. *revoluta* sp. n. roots of sugar cane, Hawaii. COBB, Bull. No. 6. Divn. Path. and Phys. H.S.P.A. Experiment Station, 1906 (187).

(*Anticoma calvati* sp. n. ROUVILLE, Paris, Bul. ass. franç. avanc. sci. C.-R., 33.)

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Ascaris resistance to digestion due to antibody HAMILL J. Physiol. 33 (479-492); struttura del tubo ovarico e spermatico SALA Milano, Rend. Ist. lomb. 37 (874-887, taf. 1); Beweglichkeit der Spermien MARCUS Biol. Centralbl. 26

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Bunostomum radiatum. VON LINSTOW, Centralbl. Bakt. Abt. 1. 43 (91).

Cephalobus latus (190), *filicaudatus* (191), *hawaiiensis* (192), spp. n. roots of sugar cane, Hawaii. COBB Bull. No. 6, Divn. Path. and Phys. H.S.P.A. Experiment. Station 1906.—*C. elongatus* Biologie und Morphologie. MARCINOWSKI, Berlin, Arb. biol. Anst., 5, (215-236).

Chromadora baltica, *erythrophthalma*, *tenuis* spp. n., Ostsee (Finland). SCHNEIDER, and Helsingfors Acta Soc. Fauna et Fl. Fenn. 27, Zool. Anz. 29, (626).—*C. leberti* (680), *veralensis* (681), spp. n., Estland, SCHNEIDER, Zool. Anz., 29.

Cloacina octodactyla sp. n., from *Canis familiaris*. LINSTOW, Centralbl. Bakt. Abt. 1 41 Orig. (750).

Cucullanus nigrescens aus *Rana*, *viviparus* aus *Damonia*, spp. n., LINSTOW, Arch. Natg. 72.—*C. elegans* Subcuticula u. Seitenfelder. MARTINI Zs. wiss. Zool. 81, (717-766) T. xxxi-xxxiii.

Cyathocephalus truncatus Entwicklungsgeschichte WOLF, Zool. Anz. 30 1906 (37-45).

Diplogaster elpatiewskyi sp. n. DADAY, Math. Term. Ért., 24, (34-77).—*D. intermedius* sp. n. roots of sugar-cane, Hawaii, COBB Bull. No. 6, Divn. Path. and Phys. H.S.P.A. Experiment Station 1906, (189).

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Echinocephalus gracilis sp. n. from *Margaritifera vulgaris*, Ceylon. SHIPLEY and HORNELL. London, R. Soc. Rep. Pearl Oyster, 5, (89).

Eustrongylus gigas im menschlichen Harnapparat. STUERTZ, A. Arch. klin. Med., 78, (557-587).

Filaria granulosa sp. n. aus *Felis*, LINSTOW, Arch. Natg. 72 (256).—*F. macrolaimus* sp. n. aus *Centrurus subelegans* LINSTOW, Zool. Jahrb. Syst. 24 (5), Ti fig. 7-8).—*F. piscicola* (171), *digitata*, (171) pl. iii. figg. 52-55 *tuberosa* (172) spp. n. Ceylon, LINSTOW, Spolia Zeylan. 3.—*F. agamæ* sang d'*Agama colonorum*. RODHAIN, Centralbl. Bakt., Orig. (545-546).—*F. conjunctivæ* parassita dell'uomo: ALESSANDRINI, Roma Boll. Soc. Zool. italiana

6, (233-234).—*F. loa* anatomy BILLET Paris C.-R. soc. biol. **61** 1906 (507-508) et Réunion biologique de Marseille **1906** (57-58);—*F. loa* in North America. WARD, Lincoln, Stud. Zool. Lab. Univ. Neb., No. **63**, (1-75).—*F. loa* symptoms in human host. BILLET, Paris, C.-R. soc. biol., **60**, 1906, (1151-1153).—*F. medinensis*. Action of acid on larvae in *Cyclops*: LEIPER, Brit. Med. J. **1**, (19-20).—*F. perforans* note. MURATET, Pr. Verb. Soc. Linn. **61**, (xlv).

Haemonehus contortus. RANSOM, life history. Washington, D.C., Cir., U. S. Dept. Agric., Bur. Anim. Ind., N. **93**, (1-7).

Hedruris orestiae from *Orestias*, S. America. NEVEU LEMAIRE Les lacs des Hauts Plateaux de l'Amerique du Sud. Paris 1906 (137).

Heterakis caudata aus *Lampronessa*, (250), *hamulus* aus *Pavo*, *circumvallata* aus *Cygnus* (251), *isolonche* aus *Thaumalea*, *rima* aus *Otis*, (252), **spp. n.**, LINSTOW, Arch. Natg. **72**.—*H. cordata* (749), *Callipeda squamata paradoxa* (750), *Didelphys dessigera* **spp. n.**, LINSTOW, Centralbl. Bakt. Abt. **1** **41** Orig.—*H. pusilla* (167) pl. i fig. 9, *granulosa* (168) pl. iii fig. 9 **spp. n.** from *Gallus* Ceylon LINSTOW, Spolia Zeylan. **3**.—*H. inflexa*, *vesicularis*, *maculosa*, Histologie. ROTH, Breslau, 1903.

Holostomum excisum **sp. n.** aus Vogel. LINSTOW, Zool. Jahrb. Syst. **24** (12) T. i fig. 14-16.

Hydromermis implicata **nom. n.** für Kohn *Paramermis contorta* CORTI, Zool. Anz., **29**, (627-631).

(*Synoechnema* gen. n. *fragile* **sp. n.** MAGALHÃES, Arch. parasit. **8**.)

Micropleura gen. n. *vivipara* **sp. n.** from *Gavialis gangeticus*. LINSTOW, Calcutta, J. As. Soc. Beng. **2** (269).

Monhystera bipunctata, *trabeculosa* **spp. n.**, Ostsee, SCHNEIDER Zool. Anz. **29** (626).—*M. subrustica* (185), *impetuosa* (186), **spp. n.** roots of sugar cane, Hawaii, COBB Bull. Exp. Sta., **6**.—*M. trabeculosa* (13) pl. i figg. 4, *bipunctata* (15, pl. i fig. 5) **spp. n.** Finland, SCHNEIDER Helsingfors Acta Soc. Fauna et Fl. Fenn. **27**.—(*M. de Mani* **sp. n.** ROUVILIE, Paris Bul. ass. franç. avanc. sci. **1904** C.-R. **33**.)

Mononchus longicaudatus (179), *index* (180), *brachyurus* (182), roots of sugar cane, Hawaii. COBB Divn. Path. and Phys. 1906, Bull. Exper. Stat. Hawaii **6**.

Necator americanus in Guam and China, STILES, Baltimore Md. Joh. Hopkins Hosp. Bull. **17** (313); LINSTOW, Centralbl. Bakt., Abt. **1**, **43**, Orig. (89) 1 Taf.

Nematorys unguiculatus **sp. n.** aus *Bufo* LINSTOW, Arch. Natg. **72**, (255).

Oesophagostomes des Primates WEINBERG, Paris, C.-R. soc. biol., **60**, (446-447); RAILLIET et HENRY, Paris, C.-R. soc. biol., **60**, (448-450).

Oesophagostomum dentatum. LINSTOW, Centralbl. Bakt., Abt. **1**, **43**, (89-94) 1 Taf.—*O. dentigerum* **sp. n.** chez *Anthropithecus troglodytes*. RAILLIET et HENRY, Paris C.-R. soc. biol. **60** (449).

Oncholaimus vulgaris Anatomy. STEWART, Q. J. Microsc. Sci. **49** (101-150) pl. vii-ix.

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Physaloptera brevispiculum **sp. n.** from *Felis rubiginosa* LINSTOW Spolia Zeylan. **3**, (166) pl. i, fig. 4.—*P. inermis* in *Sciurus*, *rotundata* in *Otis*, (248), *bulbosa* in *Pavo*, (250), **spp. n.**, LINSTOW, Arch. Natg. **72**.

Plectus hawaiiensis sp. n. roots of sugar cane, Hawaii. COBB Bull. Exp. Stat. Hawaii, 6, 1906 (814).

Prismatolaimus hawaiiensis sp. n. roots of sugar cane, Hawaii. COEB. T.c.

Proleptus tortus sp. n., from *Cistudo ornata* LINSTOW, Centralbl. Bakt. Abt. I 41 Orig., (750).

Pseudomermis pusilla sp. n., Ost-Afrika, LINSTOW, Berlin Mitt. zool. Mus. 3 (248).

Rhabditis brevispina Biologie, Morphologie. MARCINOWSKI Berlin Arb. biol. Anst. 5 (215-236).—*R. strongyloides*, bei Hunde, KÜNNEMANN, D. tierärztl. Wochenschr., 13, (269-270).—*Rhabditis tripartita* sp. n. aus Affe LINSTOW, Zool. Jahrb. Syst. 24 (8) T. i. figg. 10-12.

Rhabdonema strongyloides, PERRONCITO. Torino, Giorn. Acc. med., 69 3-5).

Sabatieria gen. n. *cettensis* sp. n. ROUVILLE, Paris Bul. ass. franç. avanc. sci. 1904 C.-R. 33).

Sclerostomum equinum: [dal *Canis*]. ISOIA, Genova, Atti Soc. ligustica sc. nat. geogr. 17 1906 (85-87).

Sphaerolaimus balticus sp. n., Ostsee, SCHNEIDER, Zool. Anz. 29 (627) and Helsingfors Acta Soc. Fauna et Fl. Fenn. 27 (35) pl. ii figg. 16.

(*Spilophora giardi* sp. n. ROUVILLE, Paris Bul. ass. franç. avanc. sci. 1904 C.-R. 33).

Spiroptera aerophila sp. n. zu *Phaenicopterus*, LINSTOW, Arch. Natg. 72 (253).—*S. secretoria* (166, pl. i. fig. 5) *orca* (166) pl. i, figg. 6-8. Ceylon. LINSTOW Spolia Zeylan. 3.

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S. rubidus (bei Zuchtsauen in Deutschland). D. tierärztl. Wochenschr., 13, (469-472).

Trichina spiralis Fall von Trichinose. BABES, Centralbl. Bakt., Abt. I, 42, Orig. (541-545, 616-619); Biologie

HÖYBERG Kjöbenhavn Gads Forlag. 1906 (1-32); *T. épidémie* CHELCHOWSKI Ger. lek., 26, (626-633, 659-666).

Fütterungsversuche mit trichinösen Fäkalien, HÖYBERG, Centralbl. Bakt., 41, Originale, (210-211).

Trichocephalus alcocki sp. n. aus *Cervus eldi* LINSTOW, Zool. Jahrb. Syst. 24 (7) T. i fig. 9.—*T. discolor* sp. n. *Bos indicus*, Ceylon. LINSTOW, Spolia Zeylan. 3, (173) pl. i, figg. 13-14; *T. infundibulum* sp. n. aus *Hystrix*, (257), LINSTOW, Arch. Natg., 72, (257).

Tylenchus olaae sp. n. roots of sugar cane, Hawaii. COBB Divn. Path. and Phys. Bull. Exper. Stat. Hawaii 6, 1906, (178).—*T. devastatrix* Auftreten in Lupinen. MAYER GMELIN, D. landw. Presse, 33, (284).

Typhlophoros gen. n. *lamellaris* sp. n. from *Gavialis gangeticus*. LINSTOW, Calcutta J. As. Soc. Beng. 2 (270).

Nematomorpha (Gordiidae).

Gordiidae Kasuistik. BOLÎ, Kazanî. Zap. Veterin. Inst., 21, (378-381).

Chordodes aurantiacus, Honduras, *clavatus*, Kamerun, LINSTOW Berlin Mitt. zool. Mus. 3 (246).—*C. undulatus* sp. n., aus *Mantis* LINSTOW Arch. Natg. 72 (257).

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Mermis gracilis, Java, *involuta*, Togo, *quadripartita*, Réunion, *pachyderma*, Argentinien, LINSTOW, Berlin Mitt. zool. Mus. 3 (247-248) spp. n.—*M. albicans* Haut-Nerven-Muskelsystems. RAUTHER, Zool. Jahrb., Anat., 23, (1-76) T. i-iii.

Para-chordodes annulatus sp. n., Australien, LINSTOW Berlin Mitt. zool. Mus. 3 (246).—*P. coreanus* sp. n., Korea, von LINSTOW. London, Proc. Zool. Soc. 1906 (557).

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Acanthocephala.

Proposta classificazione degli *Acanthocephali*. MONTICELLI, Napoli, Boll. Soc. nat. **19**, (217-218).

Echinorhynchus; Distribution in fishes of Finland. FORSELL, Helsingfors Acta Soc. Fauna et Fl. Fenn. **27** (1-29).—*E. tener* sp. n. from *Spilornis cheela* LINSTOW, Spolia Zeylan. **3** (173) pl. i figg. 15-17.—*E. orestias* from *Orestias* S. America. NEVEN LEMAIRE Les lacs des Haut Plateaux de l'Amerique du Sud. Paris 8vo. 1906, (140).

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Jahresbericht für 1899. COLLIN. Arch. Natg. Berlin, 66, Bd 2. H. 3 (581-596).

Chactonotus polychactus sp. n. Mongolia. DAPAY, Math. Terint. Ért., 24, (34-77).

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Morphologie der Segmentalorgane des Regenwurms; Szüts.

Structure of nephridia of *Acolosoma* and *Mesenchytraeus*; Vejdovsky, 1.

Il cloragogo tipico degli Oligocheti; Rosa, 5.

Nefridii con sbocco intestinale comune dell' *Allolobophora antipae*; Rosa, 4.

Beitrag zur Hamocöltheorie; Vejdovsky, 2.

Gefäßsystems der *Pisiccola*; Selensky.

Vaisseaux sanguins du *Sipunculus nudus*; Enriques.

Le liquide coelomique de *Sipunculus nudus*; Ladreyt.

Ghiandole ermafroditiche negli Oligocheti; Cognetti de Martiis, 8.

Encheitride ad ampolla spermatocale unica; Issel, 1.

Sexorgans in *Acolosoma*; Nelson, 1.

Geschlechtsverhältnisse und die Geschlechtsorgane von *Lumbriculus variegatus*; Mrasek, 2.

PHYSIOLOGY. 1811

Physiologie et biostatique des Sipunculides; Hérubel, 1.

Sex determination, *Dinophilus*; Conklin.

Geschlechtsbestimmende Einflüsse des *Dinophilus apatris*; Malsen.

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Physiologie der Segmentalorgane des Regenwurms; **Szűts**.

Blutgerinnung mit Berücksichtigung der Hirudinen-wirkung; **Schittenheim** u. **Bordong**.

Iethyotomus: autotomie, ein auf das Blutwirkende anticoagulirend Sekret: **Eisig**.

Vaisseaux sanguins du *Sipunculus nudus*; **Enriques**.

Magnesian carbonate content of serpulid shells; **Nichols**, H. W.

Lebensdauer der Lumbriciden; **Korschelt**.

Attitudes et mouvements des Annelides; **Bohn**.

Locomotion of the Annelids; **Eisig**.

Reactions of earthworms to salts; **Parker** and **Metcalf**.

Experiments on behavior of tubicolous annelids; **Hargitt**.

Modifiability of behavior in *Hydroides dianthus*; **Yerkes**.

Factors determining movement in the earthworm; **Jennings**.

(Hermaphroditism in *Sabella*; **Gregory**.)

Regeneration *vide* Development.

DEVELOPMENT. 1815

Of *Mitraria*; **Cialona**.

Développement dans les reproductions sexuelles et asexuelles des Salmacines et des Filogranes; **Malaquin**, 2.

Actinotrochen der norwegischen Fjorde; **Schepotieff**, 2.

Sviluppo del *Protodrilus* e del *Saccocirrus*; **Pierantoni**, 6.

Sviluppo embrionale e larvale del *Saccocirrus papillocreus*; **Pierantoni**, 5.

Development of *Phaseolosoma*; **Gerould**.

Gestazione esterna della *Pionosyllis pulligera*; **Pierantoni**, 1.

Oogenesis and spermatogenesis of *Branchiobdella*; **Smallwood**.

(Maturation *Allolobophora foetida*; **Foot** and **Strobell**.)

Reifung der Geschlechtszellen von *Ophryotrocha puerilis*; **Schreiner**.

The cytogeny of *Podarke obscura*; **Treadwell**.

Eibildung des *Dinophilus apatris*; **Malsen**.

Spermatogenése beim *Lumbricus terrestris*; **Depdolla**.

Spermatogenese du *Lumbricus agricola*; **Bugnion** et **Popoff**.

Saccocirrus. Eibildung, Eireifung und Befruchtung; **Hempelmann**, 2.

Fécondation chez la Serpule; **Soulier**.

Parthenogenetic development of *Amphitrite*; **Scott**.

Artificial Parthenogenesis in *Thalassema*; **Lefevre**.

Cell communications between blastomeres in *Eupomatus* and *Polygordius*; **Shearer**, 2.

Elementary phenomena of embryonic development in *Chaetopterus*; **Lillie**.

Zweiter Beitrag zur Hämocöltheorie; **Vejdovsky**.

Development of larval nephridia in *Phoronis*; **Shearer**, 3.

Development of nephridia in *Dinophilus*; **Shearer**, 1.

Prétendu cas de bourgeonnement chez *Anisocirrus*; **Gravier**, 6.

Collateral budding in *Trypanosyllis misakiensis*; **Izuka**, 1, 2.

Scissiparité génitale des Chétopères; **Jourdain**.

La forme hétéronéréidienne de *Nereis fucata*; **Giard**.

(*Heteronereis* stage of *Nereis kobienensis*; **Treadwell**, 3.)

Regeneration in *Amphiglena*; **Driesch**. *Spirographis spallanzanii*; **Ivanow**.

Regeneration in *Spirographis spallanzanii*; **Orlandi**.

Die Regeneration der Segmente bei den Polychäten; **Ivanow**.

Regeneration in *Potamilla*; **Watson**.

Regeneration of double tentacles in *Nereis dumerilii*; **Byrnes**.

Regeneration in *Allolobophora*; **Morgan**, 2.

ETHIOLOGY. 1819

HABITS.

Similarity between tubes of worms and ammonites of Senonian; **Boule and Therenen**, Paris, Ann. Paléont. 2 (53).

Taenurus probable burrow of polychaetous annelid; **Sarle**, 2.

Arthrophyeus and *Daedalus* of burrow origin; **Sarle**, 1.

Relations of boring Polychaets and oysters; **Guerin**.

Oekologie des *Tubifex* und *Lumbriculus*; **Wagner**.

Habits of tube-building worms; **Watson**, Nature 74 (562).

Schlammkulturen und eigentümliche Schlammgebilde durch *Lumbriculus*; **Klunzinger**.

PARASITISM.

Ueber lebende Hirudineen im Bindehautsack des menschlichen Auges; **Kuwahara**.

Sanguis parasites des Palmipèdes; **Mégnin**.

Zwei Fälle von Blutegeln in der Trachea; **Tsakyroglous**.

Ichthyotomus sanguinarius, eine auf Aalen schmarotzende Annelide; Parasitism in the Polychaeta; **Eisig**.

(*Myxostoma*, parasite of starfish; **Wheeler**.)

Mode de transmission des Trypanosomes par les Hirudinées; **Brumpt**, 1, 2, 3.

Myxocystis parasite de *Pheretima*; **Hesse**.

Sporozoaire parasite des *Scoloplos armiger*; **Brasil**, 2.

Grégarines parasitic in *Lumbricus herculeus*; **Brasil**, 1.

Polychaeta, protozoan parasites; **St. Joseph**.

Travisia parasitised by *Haplozoon*; **Dogiel**.

Copépode ectoparasite de *Nereis Dumerilii*; **Malaquin**, 1.

DISTRIBUTION. 1827

1. Terrestrial.

Europe.

Lumbriciden - Fauna Ostpreussen; **Collin**, 2.

Naididen Kurischen Nehrung; **Thienemann**, J., 1.

Lumbricidi dell' Europe orientale; **Cognetti de Martiis** 3.

Montenegro Hirudinea; **Blanchard**.

Bologoje Susswasser - Oligochéten - Fauna; **Plotnikov** 1.

Ligurian Lumbricidae; **Cognetti de Martiis**, 10.

I. Elba Enchitreidi; **Issel**, 2.

Asia.

India, *Chaetogaster* sp. n.; **Annandale**.

North America.

Cedar Point, Ohio, *Naididae*, 7 spp. n.; **Walton**.

Great lakes region. Hirudinea and Oligochaeta; **Moore**, 3.

Africa.

Tanganyika, Oligochaeta, 4 spp. n.; **Beddard**.

Lumbrichi di Madagascar e dell' isola Riunione; 2 spp. n., **Cognetti de Martiis**, 6.

Megascolecidi africani dal Ruwenzori; **Cognetti de Martiis**, 5.

Oligocheti della Regione Neotropica; **Cognetti de Martiis**, 9.

Australasia and Antarctic.

Notes on New Zealand Earthworms; **Benham**, 1.

Earthworms from Little Barrier Island, New Zealand; **Benham**, 2.

Antarctic Oligochaets, 2 spp. n.; **Michaelsen**.

Antarctic oligochaets; **Richters**.

Atlantic.

Canary Islands Oligochaeta Drilo-fauna; **Cognetti de Martiis**, 1.

2. Marine.

Distribution des Sipunculides; **Herubel**, 5.

Polychètes de France (Océan et côtes de Provence); **Saint-Joseph**, de.

Priapulides des côtes occidentales de la Scandinavie; **Hézubel**, 6.

Arctic Priapulids and Echiurids; **Théel**.

Norwegian fjords, Actinotrocha; **Schepotieff**, 2.

Sargasses, Annélides de la mer des; Prince Albert de Monaco, C.-R. Acad. Sci., **143** (622).

Geographical distribution of *Rhabdopleura*; **Schepotieff**, 1.

West Indian Islands; **Augener**; Polychaeta dredged by the "Blake," 20 spp. n. 3 var. n.; St. Vincent *Myzostoma*, 1 sp. n.; **Reichensperger**.

Indo-Pacific.

Mer Rouge affinités de la faune annélidienne; **Gravier**, 2.

Mer Rouge les Annélides polychètes (Sabellides); **Gravier**, 1.

Faune annélidienne de la mer Rouge et ses affinités; **Gravier**, 1.

La mer Rouge Annélides Polychètes; **Gravier**, 5.

Indian Ocean. *Owenia fusiformis* et sa distribution géographique; **Gravier**, 4.

Polychaeta of the Maldives and Laccadives; **Gardiner**, Fauna Maldives and Laccadives, 2, supp. ii, 1906, (1048).

Hawaiian islands. Albatross collections Polychaeta 26 spp. n.; **Treadwell**.

Japan. Myzostomes of "Albatross" expedition, 8 spp. n., 1 var. n.; **McClendon**.

(North Pacific. New species *Ampharetidae* and *Terebellidae*; **Moore**, 4.)

Alaska. 2 spp. n.; **Moore**, 2.

Monterey bay, California; *Actinotrocha*); **Spaulding**.

North Pacific. New species of *Polychaeta*; **Moore**, 1.

Antarctic.

Sipunculides de l'Expédition Charcot; **Hérubel**, 2.

Antarctique. L'Expédition française; **Gravier**, 3.

3. Geological.

Silurian of Ludlow. Worm fauna; **Elles** and **Slater**.

Vermes of the Salem limestone; **Beede**.

List of Vermes from Devonian of Western New York; **Slocum**.

Serpulites from Carboniferous of Ronken Glen, Glasgow; **Macnair**.

Serpula in Neocomian of Schaumburg-Lippe; **Harbert**.

Serpula in Tertiary sands of Cserhát; **Noszky**.

Serpula in Tertiary of Budapest Ráko; **Vadász**.

Polychaeta from Miocene of Turin; **Bellini**.

Fossil Polychaeta from Post-pliocene of Salustro; **Scalia**.

†Patagonia. Annelida from sedimentary deposits; **Ameghino**, Buenos Aires, An. Mus., Ser. 3a, **8**, 1906, (57).

Annelid (? Polychaet) from Pleistocene terraces and strandlines of Norway; **Rekstad**.

SYSTEMATIC.**(I) Archiannelida.**

Dinophilus sp. Oogenesis and sex determination **CONKLIN** Science **24** (294); *D. taeniatus*, Structure of nephridia presence of solenocytes, **SHEARER**, Q. J. Microsc. Sci., London, **49**, 1906, (517-545) pl. xxix-xxx. *D. apatris* Geschlechtsbestimmende Einflüsse, Eibildung, **MAISEN**, Arch. mikr. Anat., **69**, (63-99), 1 Taf

Polygorilius Cell communications between blastomeres. SHEARER London Proc. R. Soc. ser B, **77** (498-505), pl. xviii fig. 8.—*P. lacteus* (531) T. XXV-XXIX *triestinus* sp. n. Triest, morphologie (605) T. XXIX figg. 57-58 HEMPELMANN, Zs. wiss. Zool. **84**.—*P. neapolitanus* structure of foregut. SALENSKY Biol. Centralbl. **26** (199-201).

Protodrilus flavocapitatus Naples. Development. PIERANTONI Mitt. zool. Stat. Neapel **17** (515).

Saccocirrus development. PIERANTONI T.c. (519); Eibildung, Eireifung u Befruchtung. HEMPELMANN, Zool. Anz., **30**, (775-781).—*Saccocirrus papillocerus* sviluppo embrionale e larvale. PIERANTONI, Mitt. zool. Stat. Neapel, (46-72), Taf. iii-iv; structure of foregut. SALENSKY Biol. Centralbl. **26** (199-201).

(2) Polychaeta.

Polychaeta of the Red Sea. GRAVIER Nouv. Arch. Muséum, **8** (123-272) pl. i-vii. [Full descriptions of new species already notified in Bull. Mus. Paris, 1905, are given here]; affinités, Bul. Museum, Paris, **12**, (149-154); GRAVIER (Sabellides) de la mer Rouge, T.c. (33-34, 110-115).

Polychètes recueillies par l'Expédition antarctique française (Syllidiens, Hésioniens, Phyllodociens, Néréidiens, Euniciens), GRAVIER T.c. (233-290, 386-391).

Polychètes des côtes de France. SAINT-JOSEPH, de. Ann. sci. nat., zool., **3**, (145-260) pl. i-v.

Westindische polychaeten. AUGENER, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **43**, (91-196) 8 pls.

Polychètes. Organes segmentaires FAGE, Ann. sci. nat., **3**, (261-410) pls. vi-vii.

Mitraria sviluppo CIALONA, Roma, Ric. Lab. anat. norm., **10**, (257-261), 10 fig.

NEREIDIFORMIA.

Aphroditiden. Homologie von Cirrus und Elytron DUNCKER, Zs. wiss. Zool., **81**, (191-343), T. xi.

Arabella iridescens (1171), *A. attenuata* (1172), spp. n., Hawaiian Is., TREADWELL, Washington, Bull. U. S. Fish Com. **23**.

Autolytus charcoti sp. n. GRAVIER, Bul. Mus. Paris **12**, (283).

Castalia hesionoides sp. n. West Indies. AUGENER, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **43**, (155) pl. vi figg. 106-109.—*C. oculata* sp. n., Hawaiian Is., TREADWELL, Washington, Bull. U. S. Fish. Com. **23** (1148).

Ceratonereis punctata sp. n. Cannes, description. ST. JOSEPH Ann. sci. nat. **3**, (219-221) pls. iv-v, figg. 90-95.

Chlocia flava. Colombo. WILLEY. Spolia. Zeylan, **3**, (222-224).

Diopatra spiribranchis sp. n. West Indies. AUGENER, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard, **43** (145) pl. v. figg. 88-96.

Eteone reyi sp. n. Antarctique. GRAVIER, Bul. Mus., Paris, **12** (389).

Eulalia quadrioculata (220, pl. x figg. 4-6), *longicornuta* (222, pl. x figg. 7-8) spp. n. from North Pacific. MOORE, Philadelphia, Proc. Acad. **68**.

Eunice collini sp. n. West Indies. AUGENER, Cambridge, Bull. Mus. Harvard, **43** (133) pl. iv figg. 66-73.—*E. hawaicensis* (1166), *interrupta* (1167), *bilobata* (1168), *nicidioformis* (1169) spp. nn., Hawaiian Is., TREADWELL, Washington, Bull. U. S. Fish Com., **23**.

Eupanthalis oahuensis sp. n., Hawaiian Is., TREADWELL, Washington T.c. (1155).

Exogone turqueti sp. n. Antarctique. GRAVIER, Bul. Mus., Paris, **12** (285).

Glycera edwardsi sp. n. Mer Rouge. GRAVIER, Nouv. arch. Muséum **8**.)

Glycinde bonhourei, Mer Rouge *maskallensis*, spp. n. GRAVIER T.c. **8**.)

Goniada brunnea sp. n., Hawaiian Is., TREADWELL, Washington, Bull. U. S. Fish Com., **23**, (1174).—*G. emerita*. St. Jean de Luz, description. ST. JOSEPH Ann. Sci. nat. **3**, (162-164) pl. ii figg. 34-36.—*G. var. quinquelabiata* var. n. West Indies. AUGENER, Cambridge, Bull. Mus. Harvard **43** (158).

Harmothoe synaptae sp. n. St. Jean de Luz. ST. JOSEPH Ann. Sci. nat. **3**, (147) pl. i figg. 1-6).—*H. tuberculata* sp. n., Hawaiian Is., TREADWELL, Washington Bull. U. S. Fish Com., **23**, (1154).

Hermodice pennata sp. n., Hawaiian Is., TREADWELL, T.c. (1165).

Ichthyotomus sanguinarius parasite of *Myrus vulgaris*, full account of anatomy. EISIG, Fauna u Flora des Golfes v. Neapel Monogr. **28**, 1906.

†*Laetmatonice nuchipapillata* sp. n. St. Vincent. AUGENER, Cambridge Bull. Mus. Harvard **43** (101) pl. i figg. 2-7.

Lagisea floccosa var. *unidentata* var. n. AUGENER, T.c. (125).

Lepidonotus citrifrons sp. n. West Indies. AUGENER, T.c. (113) pl. ii figg. 31-38 iii figg. 39-40.

Lumbriconereis grandis (1170), *minuta* (1171), spp. n., Hawaiian Is., TREADWELL, Washington Bull. U. S. Fish Com. **23**.

Nemidia antillicola sp. n. West Indies. AUGENER, Cambridge Bull. Mus. Harvard **43** (126) pl. iii figg. 53-59.

(*Nephtys palati* sp. n. Mer Rouge. GRAVIER, Nouv. arch. Muséum **8**.)

Nereis bicrucata sp. n. West Indies. AUGENER, Cambridge Bull. Mus. Harvard **43** (151) pl. v. figg. 102-104, vi fig. 105.—*N. dumerilii* regeneration. BYRNES. Arch. Entw-Mech., **21**, (126-129).—*N. fucata* forme hétéronéréidienne. Feuille jeunes natural., Paris, **36**, (11-12).—(*N. kobiensis* heteronereis stage. TREADWELL, Biol. Bull. **9** (226-231).; heteronereid phase. TREADWELL Washington Bull. U. S. Fish. Com. **23**, (1161).—*N. pelagica*, female heteronereid. McINTOSH, Ann. Mag. Nat. Hist. **17** (72-73).—*N. rubicunda* Cannes, St. JOSEPH, Ann. sci. nat. **3** (216) pl. iv, figg. 83-89).

Onuphis rubrescens sp. n. West Indies. AUGENER, Cambridge, Bull. Mus. Harvard **43** (139) pl. iv, figg. 76-83.

Ophryotrocha puerilis Reifung der Geschlechtszellen. SCHREINER, Anat. Anz., **29**, (465-479).

Orseis mathai sp. n. Antarctique. GRAVIER, Bul. Mus. Paris, **12** (386).

Phyllodoce nana sp. n. Cannes. St. JOSEPH, Ann. sci. nat. **3**, (223) pl. v, figg. 96-98.

Pionosyllis comosa sp. n. Antarctique. GRAVIER, Bul. Mus. Paris, **12** (288).—*P. magnifica* sp. n. MOORE, Philadelphia Proc. Acad. **58** (223) pl. x, figg. 9-11.—*P. pulligera*: gestazione esterna. PIERANTONI, Napoli, Annuario Mus. zool. Univ., **2** (1-2) 1 tav.

Polynoe alba (1149), *lucida* (1150), *spicula* (1151), *mutilata*. (1152), spp. n., Hawaiian Is., TREADWELL, Washington, Bull. U. S. Fish. Com. **23**.

Polynoella pachylepis sp. n. West Indies. AUGENER, Cambridge, Bull. Mus. Harvard **43** (120) pl. iii, figg. 48-52.

Pontogenia maggiæ sp. n. Montserrat. AUGENER, T.c. (103) pl. i, figg. 8-15.—*P. chrysocoma*. Cannes, description. St. JOSEPH, Ann. sci. nat. **3** (189-193), pl. iii, figg. 58-68.

Psammolyce arenosa. St. Jean de Luz, description, DE SAINT JOSEPH, T.c. (150-159) pl. i-ii, figg. 7-31).—*P. floccifera* sp. n. West Indies. AUGENER, Cambridge Bull. Mus. Harvard **43** (109) pl. ii, fig. 24-30.

Scoloplos armiger sporozoan parasite. BRASIL, Arch. zool., **4**, notes et Revue. (xvii-xxii).

Sphaerosyllis antarctica sp. n. GRAVIER, Bul. Mus. Paris **12** (286).

Stauronereis annulatus sp. n. N. Pacific. MOORE, Philadelpeia Proc. Acad. **58** (225) pl. x, figg. 12-13, figg. 18-22.

Sthenclais gracilior sp. n. Off Barbados. AUGENER, Cambridge Bull. Mus. Harvard **43** (107) pl. i, fig. 18, ii, figg. 19-23.

Syllis quaternaris sp. n. Alaska, MOORE, Philadelphia Proc Acad. **58** (352).

Trypanosyllis misakiensis sp. n. IZUKA, Annot. Zool. Jap., **5**, (283-287); collateral budding. Dobuts. Z., Tokyo, **18**, (1-5).

Vanadis minuta (1158) *fusca*, *punctata* (1159) spp. n., Hawaiian Is., TREADWELL, Washington Bull. U. S. Fish Com. (23).

SPIONIFORMIA.

Chétoptériens. GRAVIER, Organe nuchal Paris Bull. franç. avanc. sci., **1904**, (260-261), Paris, C.-R. ass. franç. avanc. sci., **33**, (784-785).—Organe externe annexe des néphridies. GRAVIER, Paris, C.-R. ass. franç. avanc. sci., **33**, (785-787), et Bull. ass. franç. avanc. sci., **1904**, (261).

Chaetopterus. Scissiparité génitale des Annélides. JOURDAIN, Paris, Bull. ass. franç. avanc. sci., **1905**, (333).—*C*,

pergmentaceus embryonic development. LILLE, J. Exp. Zool., **3**, (153-268) 1 pl.—(*C. variopedatus* Renier var. *djiboutiensis* var. n. Mer Rouge. GRAVIER, Nouv. arch. Muséum, **8**.)

(*Magelona obockensis* sp. n. GRAVIER, T.c.)

Nerine cirratulus regeneration. IVANORO. Zs. wiss. Zool. **85**, (1-17) Taf. i-iii.—(*N. lefevrei* sp. n. GRAVIER, Nouv. arch. Muséum, **8**.)

Owenia fusiformis Madagascar distribution géographique. GRAVIER, Bul. Muséum, Paris, **12**, (294-296).

(*Telepsarus bonhourci* sp. n. Mer Rouge. GRAVIER, Nouv. arch. Muséum, **8**.)

TEREBELLIFORMIA.

(*Amphitoeis alaskensis*, *glabra* sp. n. N. Pacific. MOORE, Philadelphia Proc. Acad. **57**, (846-851).—*A. scaphobranchiata* sp. n. N. Pacific. MOORE, Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, (255, pl. xii figg. 54-61).

(*Amphitrite palmata* sp. n. N. Pacific. MOORE, T.c. (858).)

Anisocirrus gen. n. Djibouti. GRAVIER, prétendu cas de bourgeonnement. Paris, Bull. ass. franç. avanc. sci., **1905**, (333), Bul. soc. philom., **8**, (10-23).—(*A. decipiens* sp. n. Mer Rouge. GRAVIER, Nouv. arch. Muséum, **8**.)

Aponobranchus gen. n. *perrieri* sp. n. Mer Rouge. GRAVIER, T.c. (232) pl. v. figg. 239-242.

Amphitrite sp. parthenogenetic development. SCOTT, J. Exp. Zool., **3**, (49-98) pl. i-iv).

(*Armandia melanura* sp. n. Mer Rouge. GRAVIER, Nouv. arch. Muséum **8**).

(*Artacama conifera* sp. n. N. Pacific. MOORE, Philadelphia Proc. Acad. **57**, (853).)

(*Andoninia saxatilis* sp. n. Mer Rouge. GRAVIER, Nouv. arch. Muséum (42).)

(*Cirratulus africanus* sp. n. Djibouti. GRAVIER, T.c.)

(*Dodecaceria joubini* sp. n. Mer Rouge. GRAVIER, T.c.)

(*Laena nuda* sp. n. N. Pacific. MOORE, Philadelphia Proc. Acad. **57**.)

Lanice expansa sp. n., Hawaiian Is., TREADWELL, Washington Bull. U. S. Fish Com. **23**, (1176).

Melinna monoecra (177) pl. vi figg. 121-125; *profunda* (181) pl. vi and vii figg. 126-128, spp. n. West Indies. AUGENER, Cambridge Bull. Mus. Harvard, **43**.—(*M. denticulata* sp. n. N. Pacific. MOORE, Philadelphia Proc. Acad. **57**.)

Terebella parrabbranchiata sp. n. Hawaiian Is., TREADWELL, Washington Bull. U. S. Fish Com., **23**, (1175).

Terebellides tentacula sp. n., Hawaiian Is., TREADWELL, Washington, Bull. U. S. Fish Com., **23** (1177).

Thelepus branchiatus sp. n. Hawaiian Is., TREADWELL, T.c. (1176).—(*T. hamatus* sp. n. MOORE Philadelphia Proc. Acad. **57**).—*T. raughani* sp. n. Mer Rouge GRAVIER, Nouv. arch. Muséum **8** (221) pl. iv figg. 230-233.

SCOLECIFORMIA.

Ammotrypane brevis sp. n. Alaska MOORE, Philadelphia Proc. Acad. **58** (354).

(*Axiothea obockensis* sp. n. Mer Rouge, GRAVIER, Nouv. arch. Muséum **8**.)

Brada pilosa sp. n. N. Pacific. MOORE, Philadelphia Proc. Acad. **58**, pl. x. figs. 14-17.

(*Clymene watsoni*, Mer Rouge, *africana*, spp. n. GRAVIER Nouv. arch. Muséum **8**.)

(*Clymenella tentaculata* sp. n. N. Pacific MOORE, Philadelphia Proc. Acad. **58**, (239) pl. xi, figg. 33-38.

Lumbrielymene pacifica sp. n. N. Pacific. MOORE, T.c. (246) pl. xii figg. 40-42.

Maldane collariceps sp. n. West Indies AUGENER, Cambridge Bull. Mus. Harvard **43** (163) pl. vi figg. 114-120.—*M. similis* sp. n. MOORE, Philadelphia Proc. Acad. **58** (233) pl. xi figg. 26-30.

Maldanella robusta sp. n. N. Pacific. MOORE, T.c. (236) pl. xi figg. 31-32.

Nicomache carinata sp. n. MOORE, T.c. (242) pl. xi figg. 36-39, xii, figg. 43-44.

Notophyllum imbricatum **sp. n.** N. Pacific. MOORE, T.C. (217) pl. x, figg. 1-3.

Oncoscolex (Eumenia) heterochaetus **sp. n.** off St. Vincent. AUGENER, Cambridge Bull. Mus. Harvard **43** (159) pl. vi figg. 110-112.

Travisia pupa **sp. n.** N. Pacific. MOORE, Philadelphia Proc. Acad. **58**, (228) pl. xi, fig. 23.

CAPITELLIFORMIA.

Notomastus exsertilis. **sp. n.** St. Jean de Luz, description ST. JOSEPH. Ann. Sci. Nat. **3**, (169-173) pl. ii figg. 44-47.—*N. giganteus* **sp. n.** N. Pacific. MOORE, Philadelphia Proc. Acad. **58** (227) pl. x figg. 24-28.

SABELLIFORMIA.

Amphiglaena mediterranea regeneration. DRIESCH Arch. Entw. Mech. **21**, (754-755).

Branchiomma claparedei (39), *mu-shaensis* (40), **spp. n.** Mer. Rouge. GRAVIER Bul. Museum **12**.

Chone gracilis **sp. n.** N. Pacific. MOORE, Philadelphia Proc. Acad. **58** (225) pl. xii, figg. 62-66.

Eupomatus. Cell communications between blastomeres. SHEARER London Proc. R. Soc., B. **77** (498-505) pl. xviii figg. 1-7.

Eurato sancti-josephi **sp. n.** Mer Rouge. GRAVIER, Bul. Mus. Paris **12** (42).

Hydroides dianthus modifiability of behavior. YERKES J. Comp. Neur. Psych. **16**, (441-449); behaviour in response to stimuli. HARGITT. J. Exp. Zool. **3**, (297-310).

Hypsicomus marenzelleri (34) *pigmentatus* (36) **spp. n.** Mer Rouge. GRAVIER. Bul. Mus. Paris **12**.

Laonome elegans **sp. n.** Mer Rouge. GRAVIER, T.C. (41).—*L. punctata* **sp. n.**, Hawaiian Is., TREADWELL, Washington, Bull. U. S. Fish Com. **23** (1179).

†*Ortonia blatchleyi* **sp. n.** Salem limestone BEEDE, Indiana Rep. Dept. Geol. Nat. Res. **30**.

Pomatoceroopsis joussaumei **sp. n.** Mer Rouge. GRAVIER, Bul. Mus. Paris **12**, (114).

Potamilla Tenby. Regeneration WATSON London Proc. R. Soc., B. **77**, (332-336).—*P. elongata*, *californica* **spp. n.**, Hawaiian Is., TREADWELL, Washington Bull. U. S. Fish Com. **23**, (1178).—*P. ehlersi* **sp. n.** Mer Rouge. GRAVIER; Bul. Mus. Paris **12** (37).—*P. incerta* une forme jeune de *torelli* Otocystes de ces Polychètes. FAUVEL, Paris, C.-R., ass. franç. avanc. sci., **34**, (550-553); Paris, Bull. ass. franç. avanc. sci., **1905**, (334).

Protula intestinum behaviour in response to stimuli HARGITT J. Exp. Zool. **3**, (310-311).—*P. submedia* **sp. n.** West Indies AUGENER, Cambridge Bull. Mus. Harvard, **43**, (189), pl. vii figg. 145-147 pl. viii figg. 148-152).

Sabella Lamyi **sp. n.** near *zebuensis* Mer Rouge GRAVIER. Bul. Mus. Paris, **12**, (33).—(*S. microphthalmia*, hermaprodite organ. GREGORY. Biol. Bull. **9**, (287-291).)

Samytha bioculata **sp. n.** N. Pacific. MOORE, Philadelphia Proc. Acad. **58**, (253) pl. xii. figg. 52-53.

‡*Serpula (Hydroides) monoceros* **sp. n.** Mer Rouge. GRAVIER, Bul. Mus. Paris **12**, (110).—*S. crater* cytology of fecundation and maturation SOULIER, Arch. zool., **5**, (403-489).

Spirographis Spallanzani: Rigenerazione. ORLANDI, S. Arch. zool. ital., Napoli, **3**, (1-41) I tav.; Regeneration; IWANOW, St. Peterburg Trav. Soc. nat. **37**, (166-175).

Vermilia annulituba **sp. n.** off Mier-tinique. AUGENER, Cambridge Bull. Mus. Harvard **43**, (185) pl. viii figg. 153-161.

Vermiliopsis glandigerus **sp. n.** Mer Rouge. GRAVIER, Bul. Mus. Paris **12**, (112).

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Sabellaria cementarium **sp. n.** N. Pacific. MOORE, Philadelphia Proc. Acad. **58**, (248) pl. xii, figg. 45-51.—*S. setosa*, Hawaiian Is., TREADWELL, Washington Bull. U. S. Fish Com. **23** **sp. n.** (1180).—*S. (Pallasia) asteriformis* (167) pl. vii figg. 129-138, *tenera* (171) pl. vii figg. 139-144 **spp. n.** West Indies. AUGENER, Cambridge Bull. Mus. Harvard **43**.

(3) *Myzostomaria*.

Myzostoma cysticolum var. n. orientale Japan McCLENDON, New York, Bull. Amer. Mus. Nat. Hist. **22**, (120) pl. xvi. figg. 14, -15 xvii figg. 19, 26.

(*Myzostoma fisheri* sp. n. from *Tosia leptoceramus* off S. California. WHEELER, Biol. Bull. **8**, (75-78).)

Myzostoma vincentinum sp. n. St. Vincent. REICHENSPERGER, Cambridge, Bull. Mus. Harvard **43**.

Myzostomaria clarki (121) pl. xv, figg. 7-10, xvii, figg. 17-29, *metacrinii* (122) pl. xv. fig. 2, xvii fig. 20, *wheeleri*, (124) pl. xvi fig. 16, xvii fig. 25, *deani* (124) pl. xv fig. 6 xvii fig. 27, *smithi* (125) pl. xvi fig. 12, xvii fig. 18, *chelonium* (126) pl. xv. fig. 12, xvii figg. 22-23, *chelonoidium* (126) pl. xv. figg. 3-1 and xvii fig. 24, *japonicum* (127), pl. xvi fig. 13, and xvii figg. 28, 31-34 spp. n., Japan. McCLENDON New York Bull. Amer. Mus. **22**.

(4) *Oligochaeta*.

ROSA, *Oligochaeta cloragogo* tipico. Torino, Mem. Acc. sc., (2), **52**, (119-144).

Aeolosoma sp. n., Ohio, occurrence of sex organs. NELSON, Ohio, Nat., **6**, (435-438).—*A. thermophilum* sp. n. structure of nephridia. VEJDovsky. Prag. Sitz. Ber. Böhm. Ges. Wiss. 1905, No. 6, (1-11), Taf. i, figg. 1-3).—(*A. tenebrarum*; BRACE J. Morph. **17**.)

Allolobophora Antipae nefridi con sbocco intestinale comune, ROSA Arch. zool. ital. **3** (73-98) 1 tav.—*A. euginii* sp. n. Modena, ROSA, Modena, Atti. soc. nat. mat. **7**, (138-139).—(*Allolobophora foetida* oogenesis. FOOT and STROBELL Amer. J. Anat., **4** (199-243).)—*A.* Regeneration, DIMON, A. C. J. Exp. Zool., **1** (349-351).—*A.* MORGAN. J. exp. Zool. **3** (463).—*A. minuscula* sp. n. Modena, ROSA, Modena Atti Soc. nat. mat. **7** (38-39).—*A. mucosa*, Segmentalorgane, SZÜTS, Állatt. Közlem. **5**, (115-130) Taf. iv.

Alluroides tanganyikae sp. n. L. Tanganyika. BEDDARD, London Proc. Zool. Soc. **1906**, (215-218).

Alma aloysii-sabaudiae sp. n. Ruwensori COGNETTI DE MARTIIS, Torino, Boll. Musei zool. anat. **21**, N. **534**, (1).

Branchiobdella osservazioni su genere. PIERANTONI Napoli, Annuario Mus. Univ., **2**, N. 4, 1906 (1-10) 1 taf. and; B. Rivista mensile di Pesca **8** (1-11) 1 tav.—*B. instabilia*, *pulcherrima*, on American crayfish, anatomy. SMALLWOOD, Biol. Bull., **11**. (100-111).—*B. digitata*, Giappone (1-2) *tetrodonta* California (3) spp. n. su *Astacus*. PIERANTONI, Napoli, Annuario Mus. Univ., **2**.

Chaetogaster pellucidus sp. n. Ohio, WALTON, Amer. Nat., **40** (690).—*C. spongillae*, sp. n., Calcutta, ANNANDALE, Calcutta, J. and Proc. As. soc. Beng., **2**, (188-190).

Cirrodriulus gen. n. *cirratus* sp. n. dell'*Astacus japonicus*. PIERANTONI, Napoli Boll. Soc. nat. **19** (48-51) 1 tav.—*Cirrodriulus lacuum*, Segmentalorgane, SZÜTS, Állatt. Közlem. **5** (115-130) Taf. iv.

Dero digitata Kurischen Nehrung. THIENEMANN, Königsberg, Schr. physik. Ges., **46**, (169-170).

Dichogaster verens sp. n. Darien. COGNETTI DE MARTIIS. Torino Mem. Acc. sc. **56** (46).—*D. aloysii-sabaudiae* (1), *roccatii* (2), *cagnii* (2), spp. n. Ruwensori, COGNETTI DE MARTIIS Torino Boll. Musei. zool. anat. **21**.

Dinodriloides annectens sp. n. Little Barrier Id., BENHAM, Wellington Trans N. Zeal. Inst., **38** (250).

Dinodrilus suteri sp. n. N. Zealand, BENHAM, (242), T.c.

Diporochoeta gigantea, (251), *shakespearii* (254), Little Barrier Id., spp. nn., BENHAM, T.c.

Drilofauna, della isole Canarie, COGNETTI DE MARTIIS, Torino, Boll. Mus. Zool. Anat. **21** No. 521.

Enchrytraeidae vascular system, VEJDovsky, Zs. wiss. Zool. **85** (48-60) Taf. iv-v.

Euencytraeus gen. n., *bisetosus* sp. n. Schweiz, BRETSCHER, Zool. Anz., **29**, (672-674).

Fredericia gamothecae sp. n. Modena, Ampolla spermatecale unica, ISSEL, Modena Atti Soc. nat. mat. **38** (77-79).—*F. ilvana* sp. n. Elba, ISSEL, Genova, Ann. Museo Civ. st. nat. **42** (5).

Helodrilus (Eophila) gestri sp. n., COGNETTI DE MARTIIS, Genova, Ann.

Museo Civ. st. nat. **42** (114-116).—*H. (Dendrobaena) diomedaeus* **sp. n.** Isola S. Vico, COGNETTI DE MARTIIS, Boll. Mus. Varino, **21**, N. **525**, 1906 (1-3).—*H. (Dendrobaena) illyrieus* **sp. n.**, COGNETTI DE MARTIIS, Torino Boll. Musei zool. anat. **21** No. (1-18).—*H. (Allolobophora) targionii* **sp. n.** Toscana, BALDASSERONI, Monit. zool. ital., **17**, (169-172).

Kymotus pittarellii (3) *rosae* (7) **spp. n.** Madagascar and Reunion, COGNETTI DE MARTIIS, Torino, Boll. Musei zool. anat. **21**.

Limnodrilus gracilis **sp. n.** Great Lakes, MOORE, Washington, Dept. Comm. Lab. Bull. Bur. Fish. **25**.

Lumbricidae: Histology of blood vessels, VEJDovsky, Zs. wiss. Zool. **85** (66-73) Taf. iv-v; Fauna Ostpreussens, COLLIN, Königsberg, Schr. physik. Ges., **46**, (170-173); KORSCHULT Lebensdauer Verh. D. zool. Ges., **16**, (113-127).

Lumbriculus variegatus oecology, WAGNER, Zool. Jahrb. Syst. **23** (295-318) pl. xii; *L. Geschlechtsverhältnisse u. Geschlechtsorgane*, MRAZEK, Zool. Jahrb. Anat., **23**, (381-462); *L. Schlammgebilde*, KLUNZINGER, Verh. D. zool. Ges., **16**, (222-227).

Lumbricus agricola spermatogenesis, BUGNION et POPOFF, Comptes rendus de l'association des anatomistes. 7e session (Genève), **1905**, Nancy, 1906, (187-196).—*L. hereuleus* Gregarine parasites, BRASIL, Arch. zool., **4**, (69-99).—*L. terrestris* factors determining direction and character of movement, JENNINGS, J. Exp. Zool., **3**, (435-455); Spermatogenesis, DEPDOLLA, Zs. wiss. Zool., **81**, (632-690) T. xxix; var. *platyurus* Segmentalorgane, SZÜTS, Állatt, Közlem **5** (115-130) Taf. iv.

Marionina falcelandica **sp. n.** Falkland I, MICHAELSEN, Wissensch. Evgels. Schwed. Südpolar Exped **5** (5) Taf. i, figg. 1-3.

Mesenchytracus meneli **sp. n.** structure of nephridia, VEJDovsky, Prag. Sitz. Ber. Böhm. Ges. Wiss. 1905 No. 6 (1-11) Taf. i, figg. 4-7.

Metschiana tanganyikae **sp. n.**, L. Tanganyika, BEDDARD London Proc. Zool. Soc. **1906**, (209-212).

Microsecolex anderssoni **sp. n.** Falkland Is MICHAELSEN Wissensch. Ergeb. Schwed. Südpolar Exped. **5**, (9) Taf. i figg. 5-7.

Naididae of Cedar Point, Ohio. WALTON, Amer. Nat., **40**, (683-706).

Naidium osborni **sp. n.** Ohio. WALTON, Amer. Nat. **40** (703).

Nais parrula (697) *tortuosa* (698) *parviseta* (699) *tenuidentis* (700) **spp. n.** Ohio, WALTON, Amer. Nat. **40**.

Neumaniella andreinii **sp. n.** Eritrea ROSA, Monit. zool. ital. **17**, (252-254) 1 fig.

Oenocrodilus (Ilyogenia) cunningtoni **sp. n.** L. Tanganyika. BEDDARD London Proc. Zool. Soc. **1906** (212-215).

Pheretima habereri, (777), *marenzelleri*, (780), Yokohama, *ambigua* (782), **spp. n.** COGNETTI DE MARTIIS Torino Atti. Acc. Sc. **41**.

Pristina serpentina **sp. n.** Ohio, WALTON, Amer. Nat. **40** (701).

Pygmacrodilus cavallii **sp. n.** Entebbe, COGNETTI DE MARTIIS, Torino, Boll. Musei. Zool. Anat. **21**, No. 3.

Rhinodrilus (Thamnodrilus) incertus (179), *colpochacta* (183), *andinus* (221), **spp. n.**, Ecuador, COGNETTI DE MARTIIS Torino Mem. Acc. sc. **56**.

Rhododrilus parvus Little Barrier Id. (249), *similis* Auckland (242), **spp. n.**, BENHAM, Wellington Trans. N. Zeal. Inst. **38**.

Stephanodrilus sapporensis **sp. n.** on *Astacus japonicus* from Japan. PIERANTONI, Napoli Annuario Mus. Univ. **2** (3).

Stuhlmannia incermis **sp. n.** L. Tanganyika, asymmetry of genitalia. BEDDARD, London Proc. Zool. Soc. **1906**, (206, 209).

Tokea decipiens **sp. n.** New Zealand, BENHAM, Wellington Trans. N. Zeal. Inst. **38**, (241).

Tritogenia morosa **sp. n.** Durban COGNETTI DE MARTIIS, Torino, Atti. Acc. Sc. **41**, (787) pl. i, figg. 14-17.

Tubifex rivulorum KAMMERER, Wochenschr. Aquarienkunde, **3**, (467-468, 480-482, 491-492).—*T. tubifex* oecology. WAGNER, Zool. Jahrb., Syst., **23**, (295-318) pl. xii.

Vejdovskiyella comata Mich. (= *Nais hammata* Timm.). MAULE, Zool. Anz., **30**, (302-305).

(5) Gephyrea.

Sipunculides, morphologie et physiologie comparée biostatique HÉRUBEL, Paris, Bul. Soc. zool., **1903**, (111-125); *Sipunculides*, distribution et affinités réciproques, HÉRUBEL, T.c. (99-111); *Sipunculides*, l'anatomie comparée, HÉRUBEL, Paris, C.-R. Acad. sci., **142**, (651-652).

Echiurida, account of Arctic species, THÉEL, Stockholm, Vet. Ak. Handl. **40**, (1-24), pl. i-ii.

Epithetosoma doubtful position, THÉEL, Stockholm, Vet. Ak. Handl. **40** (8).

Pelagospheera, struttura, SENNA, Firenze Pubbl. Ist. sup. **1906**, (50-78) 2 tav.

Phascolion pallidum meridionale var. n., AUGENER, Cambridge Bull. Mus. Harvard, **43**, (194) pl. viii. figg. 162-166.

Phascolosoma gouldii epidermal organs, NICKERSON, J. Morph. Boston, **17** (381-398); *P. gouldii, vulgare*, development, GEROULD, Zool. Jahrb., Anat., **23**, (77-162), T. iv-xi; *P. charcoti* sp. n., Antarctique, HÉRUBEL, Bul. Mus. Paris **12** (127).

Priapulida account of Arctic species, THÉEL, Stockholm, Vet. Ak. Handl. **40**, (1-24) pl. i-ii; *P. morphologie comparée de*, HÉRUBEL, Paris, Bul. soc. zool., **29**, 1904, (126-129).

Priapulides des côtes occidentales de la Scandinavie, HÉRUBEL, (100-109) T.c.

Sipunculus nudus vaisseaux sanguins, ENRIQUES, Arch. zool., **4**, Notes et Rev. (xxiii-xxvi); tumeur musculaire, HÉRUBEL, Paris, C.-R., Acad. sci., **143**, (979-981); liquide coelomique, LADREY, Paris, C.-R. ass. franç. avanc. sci., **34**, 1906, (601-602).

Thalassema mellita artificial parthenogenesis, LEFÈVRE, Science, **23** (522-524).

(6) Phoronidea and Pterobranchia.

Phoronis hippocrepia Plymouth, psammophila? Messina, development of larval nephridia, SHEARER, Mitt. zool.

Stat. Neapel, Berlin, **17**, (487-514), T. 31-33; *P. Actinotrocha* at Monterey Bay, California, SPAULDING, Zool. Anz., **30**, (184-185); norwegischen Fjorde, SCHEPOTIEFF, Zs. wiss. Zool., **84**, (79-94), T. v, vi.

Cephalodiscus gilchristi sp. n. Cape Seas, anatomy, RIDGEWOOD, Marine Invest. S. Africa, **4**, (173-192), pl. i-iii.

Rhabdopleura normanii geographical distribution and anatomy, SCHEPOTIEFF, Zool. Jahrb. Anat., **23**, (463-534), taf. xxv-xxxiii.

(7) Hirudinea.

Acanthobdella peledina anatomy, LIVANOW, Zool. Jahrb., Anat., **22**, (637-866) 10 Taf.

Actinobdella annectens sp. n. Great lakes, MOORE, Washington, Dept. Comm. Lab. Bull. Bur. Fish. **25**.

Branchellion histology, PÉREZ, Paris, C.-R. soc. biol., **61**, (447-448); et Réunion biologique de Bordeaux, **1906**, (61-62).

Clepsine sexoculata Hautsinnesorgane, MAYER, Zs. wiss. Zool., Leipzig, **81**, (599-631), T. xxvi-xxviii.

Helobdella algira experiments on transmission of Trypanosoma BRUMPT, Paris, C.-R. soc. biol., **61**, 1906, (167-169).

Hemielepsis intermediate host of trypanosomes of freshwater fishes, BRUMPT, Paris, C.-R. Soc. biol. **60** (160-162); *H. tessellata* var. *granata* var. n., MÉGNIN, parasite des Palmipèdes, Arch. parasit., **10**, (71-76).

Hirudo medicinalis Berücksichtigung der Blutgerinnung, SCHITTENHELM und BODONG, Arch. exper. Path., **54**, (217-244).

Limnatis nilotica in trachea [umana], CONDORELLI FRANCAVIGLIA, Roma Boll. Soc. zool. ita., **6**, (1-10).

Piscicola Gefässsystem, SELENSKY, Zool. Anz., **31**, (33-41).

Placobdella montifera nom. n. Great lakes, MOORE, Washington, Dept. Comm. Lab. Bull. Bur. Fish. **25**.

VII. BRACHIOPODA AND BRYOZOA

ARRANGEMENT COMMENCED BY

A. D. IMMS,

COMPLETED BY

S. PACE AND R. M. PACE

(a) BRACHIOPODA

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I.—TITLES.

Almera, Jaime. 1. Descripción geológica y génesis de la titulado "Plana de Vich" acompañada de su mapa topográfico-geológico á la escala de 1/30000. [Geological description and origin of the title "Plana de Vich" with a topographical-geological map to the scale of 1/30000.] Barcelona, Mem. R. Ac. Cs., 5, 1906, No. 20.

Almera, J. 2. Descripción geológica de la comarca titulada "Plana de Vich" acompañada de un mapa topográfico-geológico. [Geological description of the region called "Plana de Vich," with a topographical - geological map.] Madrid, Mem. Soc. esp. Hist. nat. 3, 1906, (423-68).

Ameghino, Florentino. Les formations sédimentaires du crétacé supérieur et du tertiaire de Patagonie avec un parallèle entre leurs faunes mammalogiques et celles de l'ancien continent. An. Mus., Buenos Aires, ser. 3, 8, 1906, (1-568).

Ami, H. M. Preliminary lists of fossil organic remains from the Potsdam, Beekmantown (Calcareous), Chazy, Black River, Trenton, Utica, and Pleistocene formations comprised within the Perth Sheet (No. 119) in Eastern Ontario. Rep. Geol. Surv. Can., Ottawa, 14, 1904, (80 j-9 j).

Ascher, Else. Die Gastropoden, Bivalven und Brachiopoden der Grodischter Schichten. Wien, Beitr. Pal. Geol. OestUng., 19, 1906, (135-175, 3 Taf.)

Barrow, George *vide* Pocock, T. I.

Bather, F. A. *vide* Buckmann, S. S.; *vide* Fox, H.

Blochmann, F[riedrich]. Neue Brachiopoden der Valdivia- und Gauss-Expedition. Zool. Anz., Leipzig, 30, 1906, (690-702, 824).

Boehm, G. *vide* Verbeek, R. D. M.

[**Boule, Marcellin & Thévenin, Armand.**] Types du Prodrome de Paléontologie Stratigraphique Universelle de d'Orbigny. Ann. Paléont., Paris, 1, 1906, (97-100, 165-172, 193-196).

Breger, C. L. On *Eodevonaria*, a new sub-genus of *Chonetes*. Amer. J. Sci., New Haven, Conn., Ser. 4, 22, 1906, (534-536).

Brydone, R. M. Further Notes on the Stratigraphy and Fauna of the Trimmingham Chalk. Geol. Mag., London, N. Ser., dec. 5, 3, 1906, (124-31).

Buckman, S. S. 1. Brachiopod Homœomorphy: *Pygope*, *Antinomia*, *Pygites*. [With a note by F. A. Bather.] London, Q. J. Geol. Soc., 62, 1906, (433-455 pl. xli.)

Buckman, S. S. 2. Parallel Development in Brachiopoda. Science, N. York, N. Y., ser. 2, 23, 1906, (920-921). [Abstract of **Buckman, 1.**]

Buckman, S. S. 3. Brachiopod nomenclature. Ann. Mag. Nat. Hist., London, ser. 7, 18, 1906, (321-327).

Buckman, S. S. 4. Brachiopod Nomenclature. Science, N. York, ser. 2, 24, 1906, (742-743). [Abstract of **Buckman, 3.**]

Buckman, S. S. 5. A Cotteswold Brachiopod; a forgotten name and a neglected author. Gloucester, Proc. Cotteswold Nat. F. Cl., 15, 1906, (209-213).

Burckhardt, Carl. Coupe géologique de la Cordillère entre Las Lajas et Curacautin. Ann. Mus. La Plata, Geol. 3, 1900 [1907] (VII + 102, 22 pls.).

Caneva, Georg. Ueber die Belleophonkalkfauna. Zur Frage der Perm-Triasgrenzen. N. Jahrb. Min., Stuttgart, 1906, 1, Abhandl. (52-60).

Clarke, John M. 1. The Oriskany Fauna of Becraft Mountain, Columbia County, New York. Albany Univ., N.Y., St. Educ. Dept. Mus. Mem., **3**, No. 3, 1900, (1-128, 9 pls.).

Clarke, J. M. 2. Report of the State Paleontologist 1903. Albany Univ., N.Y., Rep. St. Mus., **57**, Bull. 80, 1905.

Clarke, J. M. 3. Percé, a brief sketch of its geology. Albany Univ., N.Y., Rep. St. Mus., **57**, Bull. 80, 1906, (134-71).

Clarke, John M. & Ruedemann, Rudolf. Guelph Fauna in the State of New York. Albany Univ., N.Y., St. Educ. Dept., Mus. Mem., **5**, 1903, (1-195).

Cockin, George Marmaduke. On the occurrence of limestone of the lower carboniferous series in the Cannock-Chase portion of the South Staffordshire coalfield. London, Q. J. Geol. Soc., **62**, 1906, (523-529).

Cornet, J. 1. Le terrain houiller sans houille (II 1 a) et sa faune dans le bassin du couchant de Mons. Liège, Ann. Soc. Géol. Belgique, **33**, 1905-6, (M. 139-152).

Cornet, J. 2. Sur la faune du terrain houiller inférieur de Baudour (Hainaut). Paris, C. R. Acad. sci., **142**, 1906, (734-736).

[Cornish, J. B.] Donations to the Museum of the R. Geological Soc. of Cornwall]. Penzance, Trans. R. Geol. Soc. Cornwall, **13**, 1906, (121-3).

Crick, George [Charles ride Fox, II.

Danielsen, Daniel. Skulbankstudier i den østlige del af Nedenes amt. [Studies of shell-beaches in the east of Nedenoe.] Nyt Mag. Naturv., Kristiania, **44**, 1906, (1-60).

Darton, N. H. Geology of the Big-horn mountains. Washington, D.C., Dept. Int., U.S. Geol. Surv., Prof. Paprs, **51**, 1906, (1-129).

Destinez, P. 1. Complément de la faune des psammites du Condroz (Famenien). Liège, Ann. Soc. géol. Belgique, **32**, 1905, (M. 125-127).

Destinez, P. 2. Faune du marbre noir (V 1 a) de Petit-Modave. Liège, Ann. Soc. géol. Belgique, **32**, 1906, (B 97-99).

(s-9720 p)

Dollfus, Gustave F. Faune malacologique du miocène supérieure de Gourbesville (Manche) étage Rédonien. Paris, C.-R. Ass. franç. avanc. sci., **34**, 1906, (358-371).

Edson, G. E. The geology of St. Albans and vicinity. Vermont, Rep. Geol., Montpelier, **1905-6**, (133-155).

Elles, Gertrude L. & Slater, I. L. The highest Silurian rocks of the Ludlow district. London, Q. J. Geol. Soc., **62**, 1906, (195-221).

Ells, R. W. Report on the geology of portions of the counties of Renfrew, Addington, Frontenac, Lanark and Carleton. Rep. Geol. Surv. Can., Ottawa, **14**, 1904, (5 j-79 j).

Etheridge, R. [Robert]. Official contributions to the palaeontology of South Australia. No. 15.—Preliminary report on other fossils forwarded to me by the Government Geologist of South Australia. Repts. Explor. Govt. Geologist North. Territ. S. Austral., Adelaide, S.A., **1905**, 1906, (41-42).

Evans, David Cledlyn. The Ordovician rocks of Western Carmarthenshire. London, Q. J. Geol. Soc., **62**, 1906, (597-613).

Foerste, Aug. F. Notes on the distribution of Brachiopoda in the Arnheim and Waynesville beds. Amer. Geol., Minneapolis, Minn., **36**, 1905, (214-250).

Fox, Howard. Further notes on the Devonian rocks and fossils in the parish of St. Minver. [With notes by F. A. Bather, G. C. Crick, W. A. E. Ussher and H. Woodward.] Penzance, Trans. R. Geol. Soc. Cornwall, **13**, 1905, (33-87).

Frech, Frigyes [Fritz]. A Tenger Eredetű Karbon Magyarországon. [Das marine Karbon in Ungarn.] Földt. Közl., Budapest, **36**, 1906, (1-50, 103-151).

Friedberg, Wilhelm Salomon von. Eine sarmatische Fauna aus der Umgegend von Tarnobrzeg in Westgalizien. Wien, Sitzber. Ak. Wiss., **114**, Abt. I, 1906 (275-327).

Fucini, Alberto. Sopra gli scisti lionati del Lias inf. dei dintorni di Spezia. Pisa, Atti soc. tosc. sc. nat. (Mem.), **22**, 1906, (119-133).

Fugger, Eberhard. 1. Die Gruppe des Gollinger Schwarzen Berges. Wien,

Jahrb. Geol. RechsAnst., **55**, 1905, (189-216).

Fugger, E. 2. Die Gaisberggruppe. Wien, Jahrb. Geol. RechsAnst., **56**, 1906, (213-58).

Gentil, Louis & Lemoine, Paul. Sur le jurassique du maroc occidental. Paris, C.-R. Ass. franç. avanc. sci., **34**, 1906, (331-340).

Gibson, Walcott *vide* Pocock, T. I.

Gortani, Michele. Contribuzioni allo studio del Paleozoico Carnico. I. La fauna permocarbonifera del Col Mezzodi presso Forni Avoltri. Paleontogr. Italica, Pisa, **12**, 1906, (1-84).

Gortani, Michele *vide* Vinassa de Regny & Gortani.

Grabau, A[madeus] W. Guide to the geology and paleontology of the Schoharie valley in eastern New York. Albany Univ., N.Y., St. Educ. Dept. Mus. Bull., **92**, 1906.

Granger, Albert. Les mollusques testacés marins des côtes méditerranéennes de France. Troisième partie. Béziers, Bul. soc. étud. sci. nat., **25**, 1906, (5-52).

Gravier, Ch. Un Sabellarien vivant sur un Brachiopode (*Kingena aleoeki* Joubin). Bul. Muséum, Paris, **1906**, (540-543).

Green, Uffield & Sherborn, C. Davies. Lists of Wenlockian fossils from Porthluney, Cornwall; Ludlovian fossils from Porthalla; and Taunusian fossils from Polyne quarry, near Looe, Cornwall. Geol. Mag., London, N. Ser., decade V, **3**, 1906, (33-35).

Harbort, E. Die Fauna der Schaumburg-Lippe'schen Kreidemulde. Berlin, Abh. geol. Landesanst., **45**, 1905.

Hartnagel, C. A. Notes on the Siluric or Ontaric section of eastern New York. Albany Univ., N.Y., St. Educ. Dept. Mus. Bull., **80**, 1905, (342-358).

Haug, Emile. Nouvelles données paléontologiques sur le Dévonien de l'Ahenet occidental (Mission de MM. R. Chudeau et E. F. Gautier). Paris, C.-R. Acad. sci., **142**, 1906, (732-734).

Hedley, Charles. 1. Mollusca from one hundred and eleven fathoms, east of Cape Byron, N.S.W. Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (41-54).

Hedley, C. 2. The Mollusca of Mast Head reef, Capricorn group, Queensland. Sydney, N.S.W., Proc. Linn. Soc., **31**, 1906, (453-79).

Hind, Wheelton & Stobbs, John T. The carboniferous succession below the coal-measures in North Staffordshire, Denbighshire, and Flintshire. Geol. Mag., London, N. Ser., dec. V, **3**, 1906, (385-400, 445-459, 496-507).

Howe, J. A. *vide* Pocock, T. I.

Hudson, George H. Contributions to the fauna of the Chazy limestone on Valcour island, Lake Champlain. Albany Univ., N.Y., St. Educ. Dept. Mus. Bull., **80**, 1905, (270-295).

Jacob, Charles & Tobler, Auguste. Étude stratigraphique et paléontologique du Gault de la Vallée de la Engelberger A. (Alpes calcaires suisses, environs du lac des quatre Cantons). Basel, Abh. Schweiz. Pal. Ges., **33**, pt. 5, 1906, (1-26).

Johns, Cosmo. On the carboniferous basement beds at Ingleton. [With a note by Arthur Vaughan.] Geol. Mag., London, N. Ser., **3**, 1906, (320-323).

Joubin, L. Note sur un Brachiopode nouveau de l'Océan indien, *Kingena aleoeki*. Bul. Muséum, Paris, **1906**, (529-532).

Keidel, Hans. Geologische Untersuchungen im südlichen Tian-Schau nebst Beschreibung einer obercarbonischen Brachiopodenfauna aus dem Kukurtuk-Tal. N. Jahrb. Min., Stuttgart, Beilagebd, **22**, 1906, (266-384, mit 4 Taf.).

Kindle, E[dward] M[artin]. 1. Notes on the range and distribution of *Reticularia laevis*. J. Geol., Chicago, Ill., **14**, 1906, (188-193).

Kindle, E. M. 2. Faunas of the devonian section near Altoona, Pa. J. Geol., Chicago, Ill., **14**, 1906, (631-635).

Koch, Antal. Az erdélyi részek másodkori képződményei. [The secondary strata of Transylvania.] Kolozsvárt, Ertes. Erdel. Muz., Jahrg., **30**, Bd. **27**, 1906, (9-149).

Koken, E. *Productus purdoni* im Perm von Kaschmir. Centralbl. Min., Stuttgart, **1906** (129-131).

Krumbeck, Lothar. Beiträge zur Geologie und Paläontologie von Tripolis. *Palaeontographica*, Stuttgart, **53**, 1906, (51-136).

[**Lamanskij**, V., Ламанскій, В. Древнѣйшіе Слонъ Силурийскихъ Отложенияхъ Россіи. [Die ältesten silurischen Schichten Russlands (Étage B)]. St. Petersburg, *Mém. Com. géolog.*, n. sér., **20**, 1905. [Deutsch Res.]

Lehmann, Wladimir. Les Terebratulacea des couches avec *Virgatites virgatus* et *Oryptolicerias catenulatus*. St. Petersburg, *Trav. Soc. Nat.*, Section Géol. et Min., **34**, 1906, (191-221).

Lemoine, Paul. Études géologiques dans le nord de Madagascar. *Ann. Hébert*, **3**, 1906.

Lemoine, Paul *vide* Gentil, L. & Lemoine.

Lissajous. **1**. Toarcien des environs de Mâcon. Mâcon, 1906 [reprinted with corrections, from Mâcon, *Bul. soc. sci. nat.*, **2**, 1902-6].

Lissajous. **2**. Bajocien et Bathonien des Environs de Mâcon. Paris, *Bul. soc. géol.*, **5**, 1906 (689-698).

Lorenz, Th. Beiträge zur Geologie und Paläontologie von Ostasien unter besonderer Berücksichtigung der Provinz Schantung in China. Berlin, *Zs. D. geol. Ges.*, **58**, 1906, (53-108).

Low, A. P. Report on the Dominion government expedition to Hudson Bay and the arctic islands on board the D.G.S. *Neptune*, 1903-1904. Ottawa, 1906, (xvii + 351).

Macnair, Peter. The geology of the Rouken Glen and its neighbourhood. Glasgow, *Trans. Geol. Soc.*, **12**, 1906, (362-397).

Macovei, G. Sur quelques Brachiopodes jurassiques de la région Hirşova-Topal (Dobrogea). Jassy, *Ann. Sci. Univ.*, **4**, 1906, (243-251).

Martelli, Alessandro. **1**. Nuovi studi sul Mesozoico montenegrino. Roma, *Rend. Acc. Lincei*, ser. **5**, **15**, 1906, sem. 1, (176-180).

Martelli, A. **2**. Contributo al Muschelkalk superiore del Montenegro. *Paleontogr. Italica*, Pisa, **12**, 1906, (97-154).

Matley, Charles Alfred. The carboniferous rocks at Rush (county Dublin). With an account of the faunal succession and correlation. By Arthur Vaughan. London, *Q. J. Geol. Soc.*, **62**, 1906, (275-322, pls. xxix and xxx).

Mayer, P[aul]. Bryozoa und Brachiopoda [bibliography of, for 1905]. *Zool. Jahresber.*, Berlin, **1905**, 1906, (1-3).

Meissner, Maximilian. [Jahresbericht über] Brachiopoda für 1900-1902 mit Nachträgen. *Arch. Natg.*, Berlin, **66**, Bd. 2, H. 3, **1900** [1906], (579-583).

Merciai, G. L'Infralias del M. Malbe presso Perugia. Pisa, *Proc. verb. Soc. tosc. sc. nat.*, **15**, 1906, (49-50).

Munthe, Henr. **1**. Beskrifning till kartbladet Falköping. Stockholm, *Sv. Geol. Unders.*, ser. A.a., **120**, 1906, (1-115).

Munthe, H. **2**. Beskrifning till kartbladet Tidaholm. Stockholm, *Sv. Geol. Unders.*, ser. A.a., **125**, 1906, (1-153).

Nelli, Bindo. Il miocene del Monte Titano nella repubblica di San Marino. Roma, *Rend. Acc. Lincei*, ser. **5**, **15**, 1906, **2**, (741-744).

Newton, E[dwin] T[ulley]. Notes on fossils from the Falkland islands brought home by the Scottish national Antarctic expedition in 1904. Edinburgh, *Proc. R. Physic. Soc.*, **16**, 1906, (248-257, pl. x).

Newton, Edwin Tulley *vide* Pocock, T. I.

Nichols, Henry Windsor. New forms of concretions. Chicago, Ill., *Pub. Field Columb. Mus.*, *Geol. Ser.*, **2**, 1906, No. 3.

Ehlert, D. P. Note sur les Brachiopodes recueillis au cours de l'expédition antarctique française commandée par le Dr. J. Charcot. *Bul. Muséum*, Paris, **1906**, (555-557).

Pack, Fred J. Cambrian fossils from the Pioche mountains, Nevada. *J. Geol.*, Chicago, Ill., **14**, 1906, (290-302, pl.).

Pethö, Julius. Die Kreide- (Hyperesen-) Fauna des Peterwardener (Pétervárad) Gebirges (Fruska Gora). *Palaeontographica*, Stuttgart, **52**, 1906, (57-331).

- Piaz**, Giorgio dal. Sulla fauna Liasica delle Tranze di Sospirolo. Parte prima. Basel, Abh. Schweiz. Pal. Ges., **33**, 1906, pt. 3, (1-61).
- Pocock**, T. I. Explanation of sheet 110. The geology of the country around Macclesfield, Congleton, Crewe, and Middlewich. [With contributions by G. Barrow, W. Gibson, J. A. Howe, E. T. Newton and C. B. Wedd]. Mem. Geol. Surv. Eng., London, **110**, 1906, (vi + 138).
- Prinz**, Gyula. A *Lytoceratidae* Neum. család tapadóizmának felfedezése a s. vigilói (Garda) dogger faunájában. [Die Entdeckung der Haftmuskeln bei der Familie: *Lytoceratidae* Neum. in der Doggerfauna von San Vigilo (Garda).] Math. Term. Ert., Budapest, **24**, 1906, (418-432. Taf. 1).
- Raymond**, Percy E. 1. The Tropidoleptus fauna at Canandaigua lake, New York, with the ontogeny of twenty species. Pittsburgh, Pa., Ann. Carnegie Mus., **3**, 1904, (79-177).
- Raymond**, P. E. 2. The Chazy formation and its fauna. Pittsburgh, Pa., Ann. Carnegie Mus., **3**, 1906, (498-598, pl).
- Redlich**, K. A. Die Geologie des Gurk- und Görtscitztales. Wien, Jahrb. Geol. Reichsanst., **55**, 1905, (327-348).
- Reed**, F. R. Cowper. Sedgwick museum notes. New fossils from the Bokkeveld beds, South Africa. Geol. Mag., London, n. ser. dec. v, **3**, 1906, (306-310, pls. xvi, xvii).
- Remeš**, Mauric. 1. Faune t. zv. exotických balvanu štramberského vápence v Rychalticích na Moravě. Prag, Rozpr. České Ak. Frant. Jos., **14**, No. 6, 1905, (1-9).
- Remeš**, M. 2. Fauna der sog. exotischen Blöcke des Stramberger Kalksteins in Rychaltitz (Mähren). Prag, Bull. Ac. Sci. Franç. Jos., Math., **10**, 1905, (33-37). [Abstract of Remeš, 1.]
- Renz**, Carl. Zur Geologie der südöstlichen Rheinpfalz. Berlin, Zs. D. Geol. Ges., **57**, 1905, Monatsb., (569-575).
- Repelin**, J. Monographie de la faune saumâtre du campanien inférieur du sud-est de la France (Zone du Plan d'Aups). Ann. Mus., Marseille, **10**.
- Reuter**, Lothar. Dogger-Profil aus dem Gebiet von Neumarkt in der Oberpfalz (Frankenjura). N. Jahrb. Min., Stuttgart, **1905**, 1, Abh., (60-92).
- Ruedemann**, Rudolf, *vide* Clarke, J. M. & Ruedemann.
- Sacco**, Federico. Les étages et les faunes du bassin tertiaire du Piémont. Paris, Bul. Soc. géol., **5**, 1906, (893-916).
- Schmitt**, Joseph. Monographie de l'île d'Anticosti (Golfe Saint-Laurent). Paris (A. Hermann), **1904**, (6 + 367, pls.).
- Schuchert**, Charles. 1. The Russian carboniferous and permian compared with those of India and America. A review and discussion. Amer. J. Sci., Newhaven, Conn., **22**, 1906, (143-158).
- Schuchert**, C. 2. Geology of the Lower Amazon region. J. Geol., Chicago, Ill., **14**, 1906, (722-746).
- Schwarz**, Ernest H. L. 1. Geological survey of the divisions of Tulbagh, Ceres, and Worcester. Rep. Geol. Comm. C.G.H., **1905**, (261-296).
- Schwarz**, E. H. L. 2. South African palaeozoic fossils. Grahamstown, Cape Colony, Rec. Albany Mus., **1**, 1906, (347-404).
- Scupin**, Hans. Das Devon der Ostalpen IV. Die Fauna des devonischen Riffkalkes II. Lamellibranchiaten und Brachiopoden. Fortsetzung, Brachiopoden. Berlin, Zs. D. geol. Ges., **58**, 1906, (213-306).
- Seely**, H[enry] M[artyn]. Beekmantown and Chazy formations in the Champlain valley, contributions to their geology and palaeontology. Vermont, Rep. Geol., Montpelier, **5**, 1906, (174-187, pl.).
- Sherborn**, C. Davies, *vide* Green, U. & Sherborn.
- Shimer**, Hervey Woodburn. 1. Upper Siluric and Lower Devonian faunas of Trilobite mountain, Orange County, New York. Albany, N.Y., St. Educ. Dept. Mus. Bull., **80**, 1905, (173-269, pl.).
- Shimer**, H. W. 2. Old age in Brachiopoda — a preliminary study. Amer. Nat., Boston, Mass., **40**, 1906, (95-121).

Sibley, T[homas] F[ranklin]. 1. The carboniferous limestone of Burrington Combe. Bristol, Proc. Nat. Soc., ser. 4, **1**, 1905, (44-41).

Sibly, T. F. 2. On the carboniferous limestone (Avonian) of the Mendip area (Somerset), with especial reference to the palaeontological sequence. London, Q. J. Geol. Soc., **62**, 1906, (324-378, pls. xxxii-xxxv).

Siemiradzki, Joseph. 1. Monografia warstw paleozoicznych Podola (Monographie paléontologique des couches paléozoïques de la Podolie). Krakow, Bull. Intern. Acad., **1906**, (23-32).

Siemiradzky, Jos. von. 2. Die Paläozoischen Gebilde Podoliens. I. Stratigraphischer Teil. Wien, Beitr. Pal. Geol. Oest.-Ung., **19**, 1906, (173-212).

Siemiradzky, J. von. 3. Die Paläozoischen Gebilde Podoliens. II. Paläontologischer Teil. Wien, Beitr. Pal. Geol. Oest.-Ung., **19**, 1906, (213-286).

Slater, I. L. *vide* Elles, G. L. & Slater.

Slocum, Arthur W. A list of Devonian fossils collected in Western New York, with notes on their stratigraphic distribution. Chicago, Ill., Pub. Field Columb. Mus., Geol. Ser., **2**, No. 8, 1906, (257-265).

Smith, Edgar Albert *vide* Sykes, E. R. & Smith.

Smyčka, Fr. Příspěvek k poznání devonské fauny u Čelechovic za rok 1905. [A contribution to the knowledge of the Devonian fauna near Čelechovie during 1905.] Prostějov, Věstn. Kl. Přírod., **8**, 1906, (126-128).

Staff, Hans v. Beiträge zur Stratigraphie und Tektonik des Gereese-Gebirges. Mt. Ungar. Geol. Anstalt, **15**, 1906, (185-226).

Stobbs, John T. *vide* Hind, W. & Stobbs.

Sykes, E[rnest] R[uthven]. The Molluscs and Brachiopods of Ballynakill and Bofin harbours, Co. Galway, and of the deep water off the West and South-West coasts of Ireland. Dublin, Fish. Ireland, Sci. Invest., **1902-3**, 1905, (53-92).

Sykes, E[rnest] R[uthven] & Smith, E[dgar] A[lbert]. Brachiopoda [Bibliography for 1905]. Zool. Rec., London, **42**, 1905, (8).

Thévenin, Armand. 1. Note sur des fossiles de Madagascar recueillis par le Dr. Decorse. Bul. Muséum, Paris, **1906**, (331-336).

Thévenin, A. 2. Note sur des fossiles recueillis à Madagascar par M. Guillaume Grandidier. Bul. Muséum, Paris, **1906**, (336-338).

Thévenin, Armand *vide* Boule, M. & Thévenin.

Tobler, Auguste *vide* Jacob, Ch. & Tobler.

Tokunaga, S[higeyasu] (née Yoshiwara). Fossils from the environs of Tokyo. Tokyo, J. Coll. Sci., **21**, Art. 2, 1906, (1-96, 6 pls.).

Treacher, Llewellyn & White, Harold J. Osborne. The higher zones of the Upper Chalk in the Western part of the London basin. London, Proc. Geol. Ass., **19**, 1906, (378-99).

Treacher, Llewellyn *vide* White, H. J. O. & Treacher.

Upton, Charles. On a section of the Upper Lias at Stroud. Gloucester, Proc. Cotteswold Nat. F. Cl., **15**, 1906, (201-213).

Ussher, William Augustine Edmond *vide* Fox, H.

Vaughan, Arthur. 1. Note on the Brachiopods and corals, collected by Dr. Brendon Gubbin, from the carboniferous limestone of South-West Gower, and the zones which they indicate. Bristol, Proc. Nat. Soc., ser. 4, **1**, 1906, (53-56).

Vaughan, A. 2. The carboniferous limestone series (Avonian) of the Avon gorge. Bristol, Proc. Nat. Soc., ser. 4, **1**, 1906, (74-168).

Vaughan, A. 3. A note on the carboniferous sequence in the neighbourhood of Pateley bridge. Yorks., Proc. Geol. Soc., N. ser., **16**, 1906, (75-83).

Vaughan, Arthur *vide* Johns, C.; *vide* Matley, C. A.

Verbeek, R. D. M. Geologische Beschrijving van Ambon. [With a note by G. Boehm: Ueber Brachiopoden aus

einem älteren Kalkstein der Insel Ambon 88-93).] *Jaarb. Mijnw. Ned. Ind.*, Batavia, **1905**, (xxiv + 308).

Vinassa de Regny, Paolo & Gortani, Michele. Fossili carboniferi del M. Pizzul e del piano di Lanza nelle Alpi Carniche. Roma, *Boll. Soc. geol. Ital.*, **24**, 1905, (461-605).

Walcott, Charles D. [Doolittle]. **1.** Cambrian faunas of China. Washington, D.C., Smithsonian Inst., *Nation. Mus. Proc.*, **29**, 1906, (1-106).

Walcott, C. D. **2.** Cambrian Faunas of China. [Preliminary paper No. 2.] Washington, D.C., Smithsonian Inst., U.S. *Nation Mus. Proc.*, **30**, 1906, (563-595).

Wanderer, Karl. Die Jura-Ablagerungen am Westrande des Bayrischen Waldes zwischen Regenstein und der Bodenwöhresbucht. *N. Jahrb. Min., Stuttgart*, **21**, Suppl., 1906 (468-539).

Ward, John. Contributions to the geology and palaeontology of North Staffordshire. No. II. Palaeontology of the Cheddle coalfield. Stone, *Rep. N. Staff. F. Cl.*, **40**, 1906 (102-37).

Warren, Ernest. Catalogue of some of the collections on exhibition at the Natal government museum. Pietermaritzburg, *Rept. Natal Govt. Mus.*, **1**, 1906 (35-185).

Wedd, Charles Bertie *vide* Pocock, T. I.

Weeks, Fred Boughton. Bibliography and index of North American geology, paleontology, petrology, and mineralogy for the years 1901-1905, inclusive. Washington, D.C., U. S. Dept. Int., *Bull. Geol. Surv. No.* **301**, 1906.

Wegner, Theodor. Die Granulatenkreide des westlichen Münsterlandes. Berlin, *Zs. D. Geol. Ges.*, **57**, 1905, (112-232).

Weller, Stuart. **1.** The northern and southern Kinderhook faunas. *J. Geol.*, Chicago, Ill., **13**, 1905, (617-634).

Weller, S. **2.** Kinderhook faunal studies. IV. The fauna of the Glen park limestone. St. Louis, Mo., *Trans. Acad. Sci.*, **16**, 1906 (435-471 pl.).

White, Harold J. Osborne & Treacher, Llewellyn. The phosphatic chalks of Winterbourne and Boxford (Berkshire). London, *Q. J. Geol. Soc.*, **62**, 1906, (499-522).

White, Harold J. Osborne *vide* Treacher, W. & White.

Whiteaves, J. F. **1.** Preliminary list of fossils from the Silurian (Upper Silurian) rocks of the Ekwan river, and Sutton Mill lakes, Keewatin, collected by B. Dowling in 1901, with descriptions of such species as appear to be new. *Rep. Geol. Surv. Can.*, Ottawa, **14**, 1904, (38 F-59 F).

Whiteaves, J. F. **2.** The fossils of the silurian (upper silurian) rocks of Keewatin, Manitoba, the north eastern shore of Lake Winnipegosis, and the lower Saskatchewan river. Ottawa, *Geol. Surv. Canada, Pal. Fossils* **3**, 1906, (243-298).

Whiteaves, J. F. **3.** Revised list of the fossils of the Guelph formation of Ontario. Ottawa, *Geol. Surv. Canada, Pal. Fossils*, **3**, 1906, (327-340).

Wilmore. The structure of some Craven limestones. Yorks., *Proc. Geol. Soc.*, **16**, 1906 (27-44).

Wilson, W. J. Reconnaissance surveys of Four rivers south-west of James bay. *Rep. Geol. Surv. Can.*, Ottawa, **15**, 1906, (222 A-244 A).

Wiśniowski, M. T. O faunie łupków spaskich i wieku piaskowca bryłowego. (Über die Fauna der Spasser Schiefer und das Alter des massigen Sandsteins in den Ostkarpaten Galizias). (Sur la faune des schistes de spas et sur l'âge des grès massifs dans les Carpathes de la Galicie orientale.) Kraków, *Bull. Intern. Acad.*, **1906**, (240-54).

Wollemann, A. Alte und neue Aufschlüsse im Flammenmergel Varianspläner und Turon in der Umgegend von Braunschweig. Braunschweig, *Jahresb. Ver. Natw.*, **14**, 1906, (96-9).

Woodward, Henry *vide* Fox, H.

Woodward, H[orace] B[olingbroke] and Ussher, W[illiam] A[ugustus] E[dmund]. The geology of the country near Sidmouth and Lyme Regis. *Mem. Geol. Surv. Eng.*, London, *Expl. Sheets. Nos.* 326 and 340, 1906 (vi + 96).

Yoshiwara, Shigeyasu *vide* Tokunaga, S.

Zahálka, Čeněk. Pásmo X. křídového útvaru v Pojizeří. [Zone X of the Cretaceous of the Iser district of Bohemia.] *Prag. Sitz.-Ber. Böhm. Ges. Wiss.*, **1905**, No. 17, (1-184).

Želízko, J. V. 1. Nové příspěvky k poznání fauny pásma D-dIγ středověkého siluru. [Further contribution to a knowledge of the Fauna of stages D-dIγ of the Silurian of Central Bohemia.] Prag, Sitz.-Ber. Böhm. Ges. Wiss., 1905, No. 11, (1-7).

Želízko, J. V. 2. Geologicko-palaeontologické poměry nejbližšího okolí Rožmitálu. Prag, Rozpr. České Ak. Frant. Jos., ser. 2, 15, 1906, No. 42, (1-27).

Zoeppritz, Karl. Geologische Untersuchungen im Oberengadin zwischen Albulapass und Livigno. Freiberg i. B., Ber. Natf. Ges., 16, 1906, (164-231).

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N.B.—For full Reference go to Titles.

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Bibliography.

Publications during 1905; **Mayer**; **Sykes & Smith**.

N. American palaeontological publications, 1901-5; **Weeks**.

Bibliography, 1900-2; **Meissner**.

Museums.

Catalogue of type-specimens in the New York State Museum; **Clarke, 2**, (43-133).

Catalogue of Natal Government Museum collection; **Warren**.

D'Orbigny's "Prodr. Paléont. Strat. Univ." types reviewed and figured; **Boule & Thevenin**.

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(a) RECENT.

General.

Collections of the "Valdivia" and "Gauss" expeditions; *Chlidonophora*, *Liothyrina*, *Macandreria*, *Magellania*, *Terebratella*, spp. n.; **Blochmann**.

Europe.

Ireland, fauna of W. Coast; **Sykes**.

Mediterranean, French spp.; **Granger**.

N. America.

Canada, fauna of Anticosti I.; **Schmitt**.

Australasia.

Queensland, fauna of Masthead Reef; **Hedley, 2**.

New South Wales, *Campages* gen. et sp. n., *Hemithyris* sp. n.; **Hedley, 1**.

New South Wales, occurrence of *Liothyrina uva*, Brod. at Twofold Bay; **Ehlert**.

N. Hebrides, occurrence of *Thecidea maxilla*, Hedley; **Hedley, 1**.

Atlantic.

Occurrence of *Liothyrina ura*, Brod.
off Buenos Ayres; **Ehlert**.

Indian Ocean.

Kingena, sp. n.; **Joubin**.

Antarctic.

Heard I., occurrence of *Liothyrina ura*, Brod.; **Ehlert**.

(β) Fossil.

General.

England, lists of fossils from Cornwall; **Cornish**.

England, few fossils from Cornwall; **Green & Sherborn**.

England, lists of fossils from Cheshire; **Pocock**.

Austria, fossils from Salzburg; **Fugger, 2**.

Amboyna, late Palaeozoic or early Mesozoic fossils; *Athyris*, *Diclasma*, *Rhynchopora*, *Spiriferina*, *Waldheimia*, spp. n.; **Boehm in Verbeek**.

Madagascar, fossils; **Lemoine**.

Madagascar, fossils; **Thevenin, 1, 2**.

Canada, fossils from Beechey I., Lancaster Id., and Cape Chidley; **Low**.

United States, fossils from Bighorn Mts., Wyoming; **Darton**.

Cainozoic.

Japan, Post-Pliocene (or Pliocene) fauna of Tokyo, *Waldheimia*, sp. n.; **Tokunaga**.

Post-Tertiary.

Norway, fossils from E. Nedene; **Danielsen**.

Tertiary.

France, Miocene spp. from Gourbesville, Manche; **Dollfus**.

Spain, fossils from the Plana de Vich, Catalonia; **Almera, 1, 2**.

Italy, fauna of the Piedmont basin; **Sacco**.

San Marino, fossils; **Nelli**.

Galicia, Sarmatian fauna of Tarnobrzeg; **Friedberg**.

Carinthia, Eocene fossils; **Redlich**.

Patagonia, fauna; **Ameghino**.

Mesozoic.

Diphyoid group of Terebratulæ; **Buckman, 1**.

England, Liassic and Cretaceous fossils from the neighbourhood of Sidmouth and Lyme Regis; **Woodward & Ussher**.

Italy, fossils from Lake Garda, Lombardy; **Prinz**.

Switzerland, fossils from the Oberengadin; **Zoeppritz**.

Hungary, palaeontology of the Gerecse-Gebirge; **Staff**.

Transylvania, lists of fossils; **Koch**.

Montenegro, few fossils; **Martelli, 1**.

S. America, fossils from the Peruvian Andes; **Burckhardt**.

Cretaceous.

Germany, fauna of Schaumburg-Lippe; **Harbort**.

Germany, fossils from Münster; **Wegner**.

Germany, fossils from near Brunswick; **Wollemann**.

England, few fossils from Norfolk; **Brydone**.

England, Upper Cretaceous fossils from the London Basin; **Treacher & White**.

England, fossils from the Phosphatic Chalk of Berkshire; **White & Treacher**.

France, Lower Campanian fauna of S.E. district; **Repelin**.

Switzerland, Gault fossils from the Engelberg valley; **Jacob & Tobler**.

Austria, fossils from Golling; **Fugger, 1**.

Hungary, fauna of the Peterwardein Mts.; **Pethö**.

Silesia, fauna of the Grodischter Schichten; *Rhynchonella*, sp. n.; **Archer**.

Galicia, fossils from the 'Spasser Schiefer'; **Wisniewski**.

Bohemia, fossils from the Iser district; **Zahálka**.

Carinthia, fossils; **Redlich**.

Africa, fauna of Tripoli; *Crania* sp. n.; **Krumbeck**.

Patagonia, Upper Cretaceous fauna; **Ameghino**.

Jurassic.

Terebratulacea of the *Virgalites virgatus* and *Oxynoticeras catenulatus* beds; *Zeilleria*, spp. n.; **Lehmann**.

Germany, fossils from the Bayerische Wald; **Wanderer**.

Bavaria, fossils from the Oberpfalz; **Reuter**.

Bavaria, Liassic fossils; **Renz**.

England, Upper Liassic fossils from Stroud, Gloucestershire; **Upton**.

France, Toarcian fossils from Macon; **Lissajous**, 1.

France, Bajocian and Bathonian fossils from Macon; **Lissajous**, 2.

Italy, Lower Lias, Spezia, occurrence of *Pygope aspasia*; **Fucini**.

Italy, Lower Liassic fossils from Perugia; **Merciai**.

Italy, Liassic fauna of Sospirolo; *Rhynchonella*, *Spiriferina*, *Terebratula*, *Waldheimia*, spp. n.; other spp. figd.; **Piaz**.

Moravia, Portlandian fossils from boulders of the "Stramberger Kalkstein" at Rychaltitz; **Remeš**, 1, 2.

Roumania, fauna of Hârsova; **Macovei**.

E. Morocco, fauna; **Gentil & Lemoine**

Triassic.

Montenegro, fauna of the Upper Muschelkalk; *Rhynchonella*, sp. n.; **Martelli**, 2.

Palæozoic.

Catalogue of type-specimens in the New York State Museum; **Clarke**, 2, 43-133).

Fossils associated with *Reticularia levis*; **Kindle**, 1.

Comparison of Russian, Indian and American Permian and Carboniferous faunas; **Schuchert**.

Sweden, few fossils from Falköping; **Munthe**, 1.

Sweden, fossils from Tidaholm; **Munthe**, 2.

Russia, fossils from Podolia, some new names without description; **Siemiradzki**, 1.

Russia, fauna of Podolia; **Siemiradzky**, 2.

Russia, fauna of Podolia; *Orthis*, *Strophomena*, *Waldheimia*, spp. n.; **Siemiradzky**, 3.

Italy, fauna of the Col Mezzodi, Carnian Alps; *Notothyris*, *Rhynchonella*, *Terebratula*, spp. n.; **Gortani**.

China, fossils from Shantung; **Lorenz**.

S. Africa, fossils; *Reusscleria*, *Trigonia*, spp. n.; **Schwarz**, 2.

Canada, fossils from James Bay region, Ontario; **Wilson**.

United States, upper Silurian and lower Devonian faunas, Orange County, N. York; *Coelospira*, sp. n.; **Shimer**, 1.

United States, fossils from Eastern New York; **Hartnagel**.

United States, lists of spp. from the Scholharie Valley, N. York; **Grabau**.

S. America, Silurian and Devonian fossils from the lower Amazon region; **Schuchert**, 2.

Australia, fossils from Fossil Head, Northern Territory, S. Austr., *Ortholetes*, sp. n.; **Etheridge**.

Permian.

Italy, fauna of the Bellerophonkalk of Cadore; *Ombonia*, gen. n.; **Caneva**.

Cashmere, occurrence of *Productus purdoni* Dav.; **Koken**.

Carboniferous.

Belgium, fossils from Baudour ; **Cornet, 2.**

Belgium, fossils from Mons ; **Cornet, 1.**

Belgium, fossils from Petit-Modave ; **Destinez, 2.**

British Is., lists of fossils from North Shropshire, Denbighshire and Flintshire ; **Hind & Stobbs.**

England, fossils from Craven district ; **Wilmore.**

England, fauna of the Cheadle coal-field ; **Ward.**

England, Lower Carboniferous fossils from Cannock-Chase ; **Cockin.**

England, Avonian fauna of the Avon Gorge ; notes on Carboniferous genera ; **Vaughan, 2.**

England, Avonian fauna of the Mendip area ; **Sibley, 2.**

England, few fossils from Ingleton, Yorks ; **Vaughan in Johns.**

England, fossils from Pateley Bridge ; **Vaughan, 3.**

England, fauna of Burrington Combe, Somerset ; **Sibley, 1.**

Wales, fossils from South-west Gower ; **Vaughan, 1.**

Scotland, fossils from near Glasgow ; **Macnair.**

Ireland, fossils from Rush, co. Dublin ; **Matley & Vaughan in Matley.**

Fauna of the Carnian Alps ; *Meekella*, *Orthothetes*, spp. n. ; **Vinassa de Regni & Gortani.**

Hungary, fauna ; **Frech.**

China, Upper Carboniferous fauna of southern Tian-Shan ; *Entelates*, sp. n. ; **Keidel.**

United States, fauna of the Kinderhook group ; *Productella*, *Spirifer*, spp. n. ; **Weller, 1.**

United States, fauna of the Glen Park Limestone, St. Louis, Mo. ; **Weller, 2.**

Devonian.

Fauna of the Eastern Alps ; **Scupin.**

Belgium, Fammenian fauna of Condroz ; **Destinez, 1.**

England, fossils from St. Minver, Cornwall ; **Fox.**

Occurrence of *Rhynchonella ascendens* near Čelechovic ; **Smyčka.**

Africa, fossils from the Sahara ; *Spirifer*, sp. n. ; **Haug.**

S. Africa, fossils ; **Schwarz, 1.**

S. Africa, few fossils from the Bokkeveld Beds ; *Ptychospira*, *Scaphicælia*, spp. n. ; **Reed.**

United States, list of fossils from New York ; **Slocum.**

United States, fauna of Percé, New York ; many nomina nuda ; **Clarke, 3.**

United States, fauna of the Moscow Shales at Lake Canandaigua, N. York ; **Raymond, 1.**

United States, Oriskany fauna Becroft Mt., New York ; *Brachyprion*, *Chonetes*, *Cryptonella*, *Cyrtina*, *Leptostrophia*, *Meristella*, *Oriskania*, *Orthothetes*, spp. n. ; **Clarke, 1.**

United States, fossils from near Altoona, Pa. ; **Kindle, 2.**

Falkland Is., fossils ; **Newton.**

Silurian.

Russia, fauna ; *Orthis*, *Plectella* (gen. n.) spp. n. ; **Lamansky.**

England, fossils from the Ludlow district ; **Elles & Slater.**

Bohemia, fossils ; **Želizko, 1.**

Bohemia, fossils from near Rosenthal ; **Želizko, 2.**

Canada, Upper Silurian fauna, Ekwan River and Sutton Mill Lakes, Keewatin, Ottawa ; *Glassia*, *Camarotoechia* ; *Reticularia*, *Meristina*, spp. n. ; **Whiteaves, 1.**

Canada, fauna of Guelph formation of Ontario ; **Whiteaves, 3.**

Canada, fauna of Manitoba ; *Camarotoechia*, *Rhynchospira*, spp. n. ; **Whiteaves, 2.**

Canada, fauna of Anticosti I. ; **Schmitt.**

United States, fauna of Guelph formation, New York ; *Monomerella* sp. n. ; **Clarke & Ruedemann.**

United States, fossils from the Chazy Limestone of Lake Champlain ; **Hudson.**

Ordovician.

Wales, fossils from Western Caermarthenshire; **Evans**.

Canada, fossils from Eastern Ontario; **Ami**.

Canada, fossils from the Ottawa Valley; **Ells**.

United States, fauna of the Chazy Limestone; **Raymond**, 2.

United States, fossils from the Chazy formation, Champlain Valley, Vermont; *Lingula* sp. n.; **Seely**.

United States, fauna of St. Albans, Vermont; **Edson**.

United States, fossils from the Arnheim and Waynesville Beds; **Foerste**.

Cambrian.

China, fauna; **Walcott**, 1.

China, fauna; *Discinopsis*, *Orthis*, *Yorkia*, spp. n.; **Walcott**, 2.

United States, fossils from the Pioche Mountains, Nevada; *Lingulella*, sp. n.; **Pack**.

fig. 4; *dilatata* fig. 5; *cor* (442) fig. 6; *angusta* fig. 7; *qucenstedti* nom. n.; cf. *triquetra* (443) fig. 9; *pilcus* (444) fig. 8, **BUCKMAN**, London, Q. J. Geol. Soc., 62.

†*Argiope podolica* Palaeozoic, *Podolia* sp. n., **SIEMIRADZKI**, Wien, Beitr. Pal. Geol. OestUng. 19 (247).

†*Athyris ambonensis* Palaeo- or Mesozoic, *Amboyna* sp. n. **BOEIME** in **VERBEEK**, Jaarb. Mijnw. Ned. Ind., Batavia, 1905 (91-2).—*A. royssi* **DAVIDS**, type of *Cleiothyridina* (q.v.).

†*Atrypa cuboides*, genotype of *Hypothyridina* (q.v.).—*A. paradoxa*, Devonian, Eastern Alps, sp. n., **SCUPIN**, Berlin, Zs. D. geol. Ges. 58 (274-6).

†*Brachyprion majus* (54-6), *schuchertianum* (56-7), Oriskany formation, New York, spp. n., **CLARKE**, Albany Univ., N.Y., Mem. St. Mus., 3, No. 3.

†*Camarotoechia coalescens* (272 3), *winiskensis* (272) Silurian, Manitoba, spp. n., **WHITEAVES**, Ottawa Geol. Surv. Canada Pal. Fossils 3.—*C. elwanensis* Up. Silurian Ottawa sp. n. **WHITEAVES** Rep. Geol. Surv. Can. Ottawa 14 1904 (42 F).

Campages, gen. n., type *C. fureifera* sp. n. New South Wales. **HEDLEY**, Sydney Rec. Austr. Mus. 6 (43).

Chlidonophora elumi **MALEDIVEN** sp. n. **BLOCHMANN** Zool. Anz. 30 (695).

Chonetes subgen. n. *Eoderonaria* (q.v.) —*C. glenparkensis* Kinderhook formation St. Louis sp. n., **WELLER** St. Louis Mo. Trans. Acad. Sci. 16 (441-2).—*C. hudsonica* Oriskany formation New York sp. n. **CLARKE** Albany Univ. Mem. St. Mus. 3 No. 3 (49-50).—*C. subgibbosa* Devonian Eastern Alps sp. n. **SCUPIN** Berlin Zs. D. geol. Ges. 58 (213-4).

†*Cleiothyridina* nom. n. (= *Cleiothyris*, auctt.) genotype *Athyris royssi* **DAVIDS**, **BUCKMAN** Ann. Mag. Nat. Hist. 18 (324).

†*Cleiothyris*, **PHILLIPS** 1841 (= *Terebratula concentrica* series), **BUCKMAN** Ann. Mag. Nat. Hist. 18 (320-4).

Caelospira grabau sp. n. Palaeozoic New York, **SHIMER** Albany Bull. St. Mus. 80 1905 (253-4).

†*Composita*, **BROWN** 1845 (= *Seminula*, auctt. nec **McCoy**), type *Spirifer ambiguus* **Sby.**, **BUCKMAN** Ann. Mag. Nat. Hist. 18 (324-6).

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Succession of Carboniferous spp. at Rush, Co. Dublin; **VAUGHAN** in **MATLEY**.

Terebratulacea of the *Virgatites virgatus* and *Oxyptericeras catenulatus* beds reviewed; **LEHMANN**, St. Petersburg. Trav. Soc. Nat. Geol., 34, (191-221).

Terebratulidae, phylogeny and taxonomy of diphyoid forms; **BUCKMAN**, 1, 2.

†*Antinomia*, developmental stages (437); *A. planulata*, pl. 41 fig. 1; *sima* fig. 2; *diphora* (441) fig. 3; sp. a

†*Crania barthi* Cretaceous, Tripoli sp. n. KRUMBECK Palaeontographica Stuttgart, **53** (92).—*C. prona* Chazy formation sp. n., RAYMOND Pittsburgh, Ann. Carnegie Mus. **3** (571-5).

†*Cryptonella* (?) *fausta*, Oriskany formation New York sp. n., CLARKE Albany Univ. Mem. St. Mus. **3** No. 3 (38-9).

†*Cylothyrus*, McCoy 1844 (= *Terebratula latissima* series), BUCKMAN Ann. Mag. Nat. Hist. **18** (326).

†*Cyrtina varia* Oriskany formation New York sp. n. CLARKE Albany Univ. Mem. St. Mus. **3** No. 3 (19).

†*Dalmanella fritschii* sp. n. Devonian, Eastern Alps SCUPIN Berlin Zs. D. geol. Ges. **58** (223).

†*Delthyris missouriensis*, suborbicularis, Kinderhook formation St. Louis spp. n., WELLER St. Louis Trans. Acad. Sci. **16** (445-7).

†*Dielasma ambonense* Palaeo- or Mesozoic Amboyna sp. n. BOEHME in VERBEEK Jaarb. Mijnw. Ned. Ind. **1905** (92).—*D. barroisi* (265), *cuneata* (263-4), *pumilio* (265-6), Devonian, Eastern Alps, spp. n., SCUPIN Berlin Zs. D. geol. Ges. **58**.

†*Discinopsis sulcatus* Upper Cambrian China sp. n., WALCOTT Washington U. S. Nation. Mus. Proc. **30** (568-9).

†*Enteleles merzbacheri* sp. n., Obercarbonischen, südlichen Tian-Schau, KEIDEL, N. Jahrb. Min., Beilagebd. **22** (376-7).

†*Eoderonaria* subgen. n. of *Chonetes* BREGER, Amer. J. Sci., **22** (534-536).

†*Epithyrus*, Phillips 1841 (= *Terebratula maxillata* series) type, *E. bathonica* nom. n., BUCKMAN, Ann. Mag. Nat. Hist. **18** (320-2).

†*Eunella compressa* Kinderhook formation, St. Louis sp. n. WELLER St. Louis Trans. Acad. Sci. **16** (442-3).

†*Glassia variabilis* Upper Silurian Ottawa, sp. n. WHITEAVES Rep. Geol. Surv. Can. **14** (42F-43F).

Hemiptychina vide *Terebratula*.

Hemithyrus columnus sp. n. Cape Byron, HEDLEY Sydney Rec. Austr. Mus. **6** (44) figg.

†*Hypothyris*, Phillips 1841, preoccupied = *Hypothyridina* nom. n.; BUCKMAN, Ann. Mag. Nat. Hist. **18** (320-4).

†*Hypothyridina* nom. n. (= *Hypothyris*, auctt); genotype *Atrypa cuboides* Sby 324, BUCKMAN Ann. Mag. Nat. Hist. **18**.

†*Karpinskia* Tsch., resemblance to Rhynchonellidae due to convergence (266-8); *K. tschernyschewi* Devonian, Eastern Alps sp. n. (270-1), SCUPIN Berlin Zs. D. geol. Ges. **58**.

Kingena alcocki sp. n. off Travancore JOUBIN Bul. Muséum Paris **1906** (529-32).—*K. alcocki*, association with *Sabelaria alcocki*, GRAVIER Bul. Muséum Paris **1906** (540-3).

†*Leptodus* Kayser, 1883 precedes *Lyttonia*; genoholotype *L. richthofeni* Kayser, BUCKMAN Ann. Mag. Nat. Hist. **18** (326).

†*Leptostrophia oriskania* Oriskany formation New York sp. n. CLARKE Albany Univ. Mem. St. Mus. **3**, No. 3 (53-4).

†*Lingula limitaris* Chazy formation Vermont U.S.A. sp. n. SEELY Rep. Vermont, State Geol. **1905-6** (183-4).—*L. mytiloides* Sby., dwarf form figd., WARD, Stafford, Rep. N. Staff. F. Cl. **40** (124).

†*Lingulella genei* Cambrian Nevada sp. n. PACK J. Geol., Chicago **14**.

Liothyridina antarctica Antarktis (692), *winteri* (693), St. Paul Is. spp. n. BLOCHMANN Zool. Anz. **30**.—*L. ura* Brod. OEHLERT Bul. Muséum Paris, **1906** (555-7).

†*Lyttonia*, Waagen 1883, syn. of *Leptodus*; BUCKMAN Ann. Mag. Nat. Hist. **18**, (326).

Macandreria ranhöffeni sp. n. Antarktis, BLOCHMANN Zool. Anz. **30** (696).

Magellania joubini Antarktis sp. n. BLOCHMANN, T.c. (697).

†*Meckella rinassai* Carboniferous, Carnian Alps sp. n. GORTANI, in VINASSA DI REGNY & GORTANI, Bul. Soc. geol. Ital. **24** (536-7).

†*Meristella lentiiformis* (445), (?) *vascularia* (45-6), Oriskany formation New York, spp. n., CLARKE Albany Univ. Mem. St. Mus. **3**, No. 3.

†*Meristina* (?) *expansa* Upper Silurian Ottawa sp. n. WHITEAVES Rep. Geol. Surv. Can. Ottawa **14** (45 F-6 F).

†*Monomerella noreboracum* Lower Shelby Dolomite, New York sp. n. CLARKE & RUEDEMANN Albany Univ. Mem. St. Mus. **5** (39-41).

†*Notothyris* (?) *gibba* Permocarboneferous, Carnian Alps **sp. n.** GORTANI Paleontogr. Ital. **12** (48).

†*Nucleospira freechi* Devonian, Eastern Alps **sp. n.** SCUPIN Berlin Zs. D. geol. Ges. **58** (283-4).—*N. minima* Kinderhook formation St. Louis **sp. n.** WELLER St. Louis Trans. Acad. Sci. **16** (417).

†*Ombonia* **gen. n.** of Orthothetinae, Belerophonkalk CANEVA N. Jahrb. Min. Stuttgart **1906**, 1, Abhandl. (54).

†*Oriskania sinuata* Oriskany formation New York **sp. n.** CLARKE Albany Univ. Mem. St. Mus. **3** No. 3, (38).

†*Orthis incurrata* (13), *boeki* (17-8), *parrula* (18), *bröggeri* (18-20, **spp. n.**, Silurian, Russia, LAMANSKY St. Petersburg Mém. Com. géolog. n. s. **20**.—*O. (Platystrophia) podolica* Palaeozoic, Podolia **sp. n.** SIEMIRADZKY Wien Beitr. Pal. geol. Oest. Ung. **19** (247).—*O. (Plectorthis) agreste, kichouensis*, Middle Cambrian, China **spp. n.**, WALCOTT Washington U. S. Nation. Mus. Proc. **30** (570-1).

†*Ortholetes perfidia-badensis* **sp. n.** [nom. nud.] Permo - Carboniferous Northern Territory, South Australia, ETHERIDGE Rept. Explor. Govt. Geologist North Territ. S. Austral. **1905** (41-2).

†*Ortholetes becraftensis* Oriskany formation New York **sp. n.** CLARKE Albany Univ. Mem. St. Mus. **3** No. 3 (51-2).—*O. (?) expansus* Carboniferous Carnian Alps **sp. n.** GORTANI in VINASSA DI REGNY & GORTANI Boll. Soc. Geol. Ital. **24** (534).

†*Platystrophia* vide *Orthis*.

†*Plectambonites uncinata* Pand., type of *Plectella* (q.v.).

Plectella, **gen. n.**, type *Plectambonites uncinata* Pand.; *gracilis*, *semiorata*, *media*, *cinicens*, *extensa*, *obtusata* **spp. n.**, Silurian, Russia, LAMANSKY St. Petersburg Mém. Com. géolog. n. s. **20** (20-7).

†*Plectorthis* vide *Orthis*.

†*Productella sublaevis* Kinderhook formation Illinois **sp. n.** [nom. nud.] WELLER J. Geol., Chicago **13** (620).

†*Productus purdoni*, Dav., Permian Cashmere; KOKEN Centralbl. Min. Stuttgart **1906** (129-31).

†*Ptychospira variegata* Devonian Bokkeveld Beds **sp. n.** REED Geol. Mag. London **3** (309) pl. xvi. fig. 7.

†*Pugnax* vide *Rhynchonella*.

†*Pygites* **gen. nov.** (de Haan MS.) (449); developmental stages (437); *diphyoides* (449) pl. xli fig. 19; BUCKMAN, London Q. J. Geol. Soc. **62**.

†*Pygope*; developmental stages (437); *janitor* pl. xli fig. 12; *delloidea* (445) fig. 13; *durali* (416) fig. 14; *P. (?) solidescens* **nom. n.** (417) fig. 15; *P. (?) euganeensis* (448) fig. 16; BUCKMAN London Q. J. Geol. Soc. **62**.

†*Rafinesquina distans* Chazy formation **sp. n.** RAYMOND Pittsburgh Ann. Carnegie Mus. **3** (575).

†*Renssellaeria hottentot* (365), *relicta* (364), Palaeozoic S. Africa **spp. n.** SCHWARZ Grahamstown Rec. Albany Mus. **1**.

†*Reticularis levis*, range and distribution, KINDLE, J. Geol., Chicago, **14** (188-93).—*R. septentrionalis* Upper Silurian, Ottawa **sp. n.**, WHITEAVES Rep. Geol. Surv. Can. **14** (44 F).

†*Retzia candifera* Devonian-Eastern Alps **sp. n.**, SCUPIN Berlin Zs. D. geol. Ges. **58** (285).

†*Rhynchonella acutipectata* (Brown) (= *R. angulata* Auctt) synonymy, BUCKMAN P. Cotteswold Club **15** (209-13).—*R. silesica*, Cretaceous, Siberia, **sp. n.** ASCHER, Wien, Beitr. Pal. Geol. Oest. Ung., **19**, (167).—*R. pseudopalmetta* (29-31), *fabianii* (34-6), *de-lottoi* (36-8), *caneræ* (38-9), Lias, Sospirolo, Italy, **spp. n.**, PIAZ Abh. Schweiz. Pal. Ges. **33** pt. 3.—*R. fornensis* (37), (*Terebratuloides*) *earnica* (38-9), Permo-carboniferous, Carnian Alps **spp. n.**, GORTANI Paleontogr. Italica **12**.—*R. plicatilis* **var. n.**, *symmienensis*, PETHÖ Palaeontographica **52** (318-21).—*R. plurigibba* Muschelkalk Montenegro **sp. n.**, MARTELLI Paleontogr. Italica **12** (120-1).—*R. (?) pentagonalis* (228-9), *spitzi* (234-5), (*Pugnax*) *postmodica* (240-3), *pseudopugnax* (243-4), (*Uncinulus*) *earnica* (246-8), Devonian Eastern Alps, **spp. n.**, SCUPIN Berlin Zs. D. geol. Ges. **58**.

†*Rhyncopora ambonensis, malayana*, Palaeo- or Mesozoic Amboyna, **spp. n.**, BOEIJNE in VERBEEK Jaarb. Mijnw. Ned. Ind., **1905** (92).

†*Rhynchospira lowi* Silurian Manitoba sp. n., WHITEAVES Ottawa Geol. Surv. Canada Pal. Fossils **3** (277-8).

†*Scaphiocalia* (?) *africana* Devonian Bokkeveld Beds, sp. n., REED Geol. Mag. London **3** (306-8).

†*Schizambon duplicimuratus* Chazy Limestone Lake Champlain sp. n., HUDSON Albany Univ. Bull. St. Mus. **80**, (284).

†*Seminula* McCoy 1844, genotype *Terebratula pentaëdra* Phillips, BUCKMAN Ann. Mag. Nat. Hist. **18** (324-6).—vide *Composita*.

†*Spirifer ambiguus* Sby., the type of *Composita* Brown (q.v.).—*S. flamandi* Devonian, Sahara sp. n. (name only), HAUG Paris C.-R. Acad. sci. **142** (732-4).—*S. geyeri* (287-9), *pseudoricator* (289-90), *stachei* (290-1), *volaicus* (293-4), *koegeleri* (294-5), *subtiro* (297-8), Devonian, Eastern Alps, spp. n., SCUPIN Berlin Zs. D. geol. Ges. **58**.—*S. jeffersonensis* Kinderhook formation St. Louis sp. n. WELLER St. Louis Trans. Acad. Sci. **16** (444-5).—*S. maplensis* Kinderhook formation Iowa sp. n., [nom. nud.], WELLER J. Geol. Chicago **13** (628).

†*Spiriferina ambonensis* (90-91), *malayana* (91), *moluccana* (91), Palaeo- or Mesozoic, Amboyna spp. n., BOEHME in VERBEEK Jaarb. Mijnw. Ned. Ind. **1905**.—*S. di-stefanoi*, Lias, Sospirolo, Italy sp. n., PIAZ Abh. Schweiz. Pal. Ges. **33** pt. 3 (20-2).

†*Strophomena freehi* Devonian Eastern Alps sp. n. SCUPIN Berlin Zs. D. geol. Ges. **58** (217-8).—*S. podolica* Palaeozoic Podolia sp. n., SIEMIRADZKI Wien, Beitr. Pal. Geol. OestUng. **19** (248).

†*Syntrophia multicosta* Chazy Limestone Lake Champlain sp. n., HUDSON Albany Univ. Bull. St. Mus. **80**

(285-6).—*S. orthia* Upper Cambrian China sp. n., WALCOTT Washington Nation. Mus. Proc. **29** (11-2).

Terebratella enzenspergeri Kerguelen sp. n., BLOCHMANN Zool. Anz. **30** (697).

†*Terebratula concentrica* vide *Cleiothyris*.—*T. gottschce* Steium, Beschreibung, PRINZ, Math. Term. Ért. **24** (418-32) Taf.—*T. pentaëdra* Phill., genotype of *Seminula* (q.v.).—*T. synophrys* Uhl. var. n. *polyptycta*, Lias, Sospirolo, Italy, PIAZ, Abh. Schweiz. Pal. Ges., **33**, pt. 3, (42-3).—*T. (Hemiptychina) schellwieni* (43-4), *tridentata* (44-5), Permo-carboniferous Carnian Alps, spp. n., GORTANI Paleontogr Italica **12**.

†*Terebratuloides* vide *Rhynchonella*.

Thecidea maxilla Hedl., occurrence in New Hebrides, HEDLEY Sydney Rec. Austr. Mus. **6** (41-54).

†*Trigleria simplex* Palaeozoic S. Africa sp. n., SCHWARZ Grahamstown Rec. Albany Mus. **1** (366).

†*Uncinulus* vide *Rhynchonella*.

†*Waldheimia ambonensis*, Palaeo- or Mesozoic, Amboyna, sp. n., BOEHME in VERBEEK, Jaarb. Mijnw. Ned. Ind., Batavia **1905** (92-3).—*W. bellunensis* (54-5), *tranzensis* (62-4), Lias Sospirolo, Italy spp. n., PIAZ Abh. Schweiz. Pal. Ges. **33**, pt. 3.—*W. elongata*, Post Pliocene (or Pliocene) Shinagawa, Japan, apparent sp. n. TOKUNAGA, Tokyo, J. Coll. Sci., **21**, Art. 2 (69).—*W. podolica* Palaeozoic Podolia sp. n., SIEMIRADZKI, Wien Beitr. Pal. Geol. OestUng. **19** (263).

†*Yorkia* ? *orientalis*, Middle Cambrian China sp. n., WALCOTT Washington, U. S. Nation. Mus. Proc. **30** (569-70).

†*Zeilleria eichwaldi* (201-2), *volgensis* (200), Jurassic spp. n., LEHMANN St. Petersburg Trav. Soc. Nat. Geol. **34**.

(b) BRYOZOA OR POLYZOA

ARRANGEMENT COMMENCED BY

A. D. IMMS,

COMPLETED BY

S. PACE AND R. M. PACE

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I. TITLES.

Ameghino, Florentino. Les formations sédimentaires du crétacé supérieur et du tertiaire de Patagonie avec un parallèle entre leurs faunes mammalogiques et celle de l'ancien continent. *An. Mus. Nac.*, Buenos Aires, ser. 3, **8**, (1-568).

Ami, H. M. Preliminary lists of fossil organic remains from the Potsdam, Beekmantown (Calcareous), Chazy, Black River, Trenton, Utica, and Pleistocene formations comprised within the Perth Sheet (No. 119) in Eastern Ontario. *Rep. Geol. Surv. Can.*, Ottawa, **14**, 1904 (80j -9 j).

Annandale, N[elson]. Notes on the freshwater fauna of India. No. 11. The affinities of *Hispioa*. *Calcutta, J. As. Soc. Beng.*, **2**, 1906 (59-63).

Apstein, C. Plankton in Nord- und Ostsee auf den deutschen Terminfahrten. I. Teil. (Volumina 1903). *Wiss. Meeresunters.*, Kiel, N.F., **8**, Abt. Kiel, 1906, (1-26 + lix).

Barrow, George *vide* Pocock, T. I.

Bassler, Ray S. **1**. A study of the James types of Ordovician and Silurian Bryozoa. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, 1906, (1-66) pl. [Reprinted as Thesis, Ph. D., George Washington University, Washington, 1906, (1 p. 1. + 66) pl.

Bassler, R. S. **2**. The bryozoan fauna of the Rochester shale. Washington, D.C., U. S. Dept. Int., Bull. Geol. Surv., No. **292**, 1906, (v + 137 + iii) pl.

Bather, F. A. *vide* Fox, H.

Bonnevie, Kristine. Physiologische Polyspermie. *Arch. Math. Naturv.*, Kristiania, **27**, No. 13, 1906, (15), 1 Taf.

[**Boule**, Marcellin & **Thévenin**, Armand]. Types du Prodrome de paléontologie stratigraphique universelle de D'Orbigny. *Ann. Paléont.*, Paris, **1**, 1906, (97-100, 165-72, 193-6).

Brydone, R. M. **1**. Further notes on the stratigraphy and fauna of the Trimmingham chalk. *Geol. Mag.*, London, n. ser., decade 5, **3**, 1906, (124-31).

Brydone, R. M. **2**. Further notes on the stratigraphy and fauna of the Trimmingham chalk. *Geol. Mag.*, London, n. ser., decade v, **3**, 1906, (289-300).

Bullen, R[obert] Ashington. Notes on some Microzoa and Mollusca from East Crete. *Geol. Mag.*, London, N Ser., **3**, 1906, (354-358).

Calvet, Louis. **1**. Description d'une nouvelle espèce de Bryzoaire cténostome du genre *Aleyonidium* Lamouroux (*A. Brucei*). Paris, *Bul. soc. zool.*, **28**, 1903, (33-36).

Calvet, Louis. **2**. Diagnoses de quelques espèces de Bryozoaires nouvelles ou incomplètement décrites de la région sub-antarctique de l'Océan Atlantique. Paris, *Bul. soc. zool.*, **29** 1904 (50-59).

Canu, Ferdinand. Étude des Bryozoaires tertiaires recueillis en 1885 et 1886 par M. Ph. Thomas dans la région sud de la Tunisie. Exploration scientifique de la Tunisie, Paris, **1904**, (37 3 pl.

Clark, Rose Mabel *vide* Pace, R. M.

Clarke, John M. **1**. Report of the State Paleontologist, 1903. Albany Univ., N.Y., *Rep. St. Mus.*, **57**, Bull. 80, 1905.

Clarke, J. M. **2**, Percé, a brief sketch of its geology. Albany Univ., N.Y., *Rep. St. Mus.*, **57**, Bull. 80, 1906 (134-171).

- Crick**, G[eorge] C[harles] *vide* Fox, H.
- Darton**, N. H. Geology of the Big-horn Mountains. Washington, D.C., Dept. Int., U. S. Geol. Surv., Prof. Paprs., **51**, 1906 (1-129).
- Degrange-Touzin**. Le Falun de Saint-Denis. Ile D'Oléron (Charente-Inferieure). Bordeaux, Actes Soc. Linn., **61**, 1906 (17-22).
- Destinez**, P. 1. Complément de la faune des psammites du Condroz (Famennien). Liège, Ann. Soc. géol. Belgique, **32**, 1905 (M 125-7).
- Destinez**, P. 2. Faune du marbre noir (V l a) de Petit-Modave. Liege, Ann. Soc. géol. Belgique, **32**, 1906 (B 97-9).
- Evans**, David Cledlyn. The Ordovician rocks of Western Carmarthenshire. London, Q. J. Geol. Soc., **62**, 1906 (597-613).
- Fox**, Howard. Further notes on the devonian rocks and fossils in the parish of St. Minver. (With notes by F. A. Bather, G. C. Crick, W. A. E. Ussher, and H. Woodward.) Penzance, Trans. R. Geol. Soc. Cornwall, **13**, 1905 (33-87).
- Gibson**, Walcott *vide* Pocock, T. I.
- Gortani**, Michele *vide* Vinassa de Regny, P. & Gortani.
- Gough**, Lewis Henry. Plankton collected at Irish light stations in 1904. Dublin, Fish. Ireland, Sci. Invest., **1904**, [1906], (3-79).
- Grabau**, A. W. Guide to the geology and paleontology of the Schoharie valley in Eastern New York. Albany Univ., N.Y., St. Educ. Dept. Mus. Bull., **92**, 1906.
- Hallez**, Paul. Rhéotropisme de quelques Hydroides monosiphonés et des *Bugula*. Paris, C.-R. Acad. sci., **141**, 1905, (810-813).
- Harbort**, E. Die Fauna der Schaumburg-Lippe'schen Kreidemulde. Berlin, Abh. geol. Landesanst., **45**, 1905, (1-112).
- Hennig**, Anders. Gotlands Silur-Bryozoer. 2. Ark. Zool., Stockholm, **3**, 1906, No. 10, (1-62) pls. i-vii.
- Howe**, J. A. *vide* Pocock, T. I.
- Hudson**, George H. Contributions to the fauna of the Chazy limestone on Valcour island, Lake Champlain. Albany Univ., N.Y., St. Educ. Dept. Mus. Bull., **80**, 1905, (270-95).
- Johnsen**, A. Bryozoen aus dem Karnischen Fusulinenkalk. N. Jahrb. Min., Stuttgart, **1906**, 2, Abh., (135-60).
- Kemp**, Helen P. Bryozoa. [Bibliography for 1905.] Zool. Rec., London, **42**, 1905, (10).
- Kluge**, Hermann. Ergänzungsbericht über die von der „Olga“-Expedition gesammelten Bryozoen. (Zoolog. Ergebnisse e. Untersuchungsfahrt nach der Bäreninsel und Westspitzbergen, viii.) Wiss. Meeresunters., Kiel, N. F., **8**, Abt. Helgoland, 1906, (31-55).
- Köhler**, [Walther]. Süßwasser-bryozoen in geheizten Aquarien. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (312).
- Kraepelin**, K. Eine Süßwasser-bryozoë (*Plumatella*) aus Java. Hamburg, Jahrb. wiss. Anst., **23**, Suppl. 2, 1906, (143-6).
- [**Lamanskij**, V.] Ламанский, В. Древнейшие слои силуриских отложений России. [Die aeltesten silurischen Schichten Russlands (Etage B).] St. Peterburg, Mém. Com. géolog., n. sér., **20**, 1905. [Deutsches Res.]
- Lang**, W. D. 1. The reptant eleid Polyzoa. Geol. Mag., London, N. Ser., decade v, **3**, 1906 (60-69).
- Lang**, W. D. 2. A key to the published figures of the cretaceous forms of the Polyzoan genus *Entalophora*. Geol. Mag., London, N. Ser., decade V, **3**, 1906 (462-67).
- Lang**, W. D. *vide* Woods, H.
- Lauterborn**, Robert. Faunistische und biologische Notizen. Dürkheim, Mitt. Pollichia, **19**, 1904 (63-130).
- Lemoine**, Paul. Études géologiques dans le nord de Madagascar. Ann. Hébert, **3** 1906.
- Lissajous**. Toarcien des environs de Macon. Macon, 1906. [Reprinted with corrections from Macon, Bul. soc. sci. nat., **2**, 1902-6.]
- Żomnicki**, A. M. Mszywiół: Rozpiórka wielokształtna. (*Plumatella polymorpha* Kraepelin var. *δ fungosa* Kraep.) na raku stawowym (*Astacus fluvialis* F. var. *leptodaetylus* Eschr.).

[Un bryozoaire *Plumatella polymorpha* Kraepelin var. *δ fungosa* Kraep. sur un *Astacus fluviatilis* F. var. *leptodactylus* Eschr.] Kosmos, Lwów, **31**, 1906, (249-256). [Polish.]

Loppens, K. Sur quelques variétés de *Membranipora membranacea* L. vivant dans l'eau saumâtre. Ann. Biol. Lacustre, Bruxelles, **1**, pt. 1, 1906, (40-42).

Low, A. P. Report on the Dominion Government expedition to Hudson bay and the Arctic islands on board the D.G.S. "Neptune," 1903-1904. Ottawa, 1906 (xvii + 354).

Macnair, Peter. The geology of the Rouken glen and its neighbourhood. Glasgow, Trans. Geol. Soc., **12**, 1906 (362-97).

Mayer, P. [Paul]. Bryozoa und Brachiopoda [Bibliography for 1905]. Zool. Jahresber., Berlin, **1905**, 1906 (1-3).

Merciai, C. L'Infralias del M. Malbe presso Perugia. Pisa, Proc. verb. Soc. tosc. sc. nat., **15**, 1906 (49-50).

Neviani, A. [Antonio]. **1.** Sulla *Schizotheca serratimargo* Hincks. Napoli, Annuario Museo zool. N. Ser., **2**, N. 1, 1905, (1-6).

Neviani, Antonio. **2.** Briozoi ritenuti uova di Mitili. Roma, Boll. Soc. zool. ital. Ser. 2, **7**, 1906, (184-190).

Newton, Edwin Tulley vide **Pocock**, T. I.

Nichols, A. R. A new Irish Polyzoan. (*Hypophorella expansa*, Ehlers). Irish Nat., Dublin, **15**, 1906 (87).

Nichols, Henry Windsor. New forms of concretions. Chicago, Ill., Pub. Field. Columb. Mus., Geol. Ser., **2**, 1906, No. 3.

Nickerson, W[infield] S[cott]. On *Loxosoma davenporti* sp. nov. An endoproct from the New England coast. J. Morph., Boston, Mass., **17**, 1901, (351-380).

Nordgaard, O[le]. **1.** Die Bryozoen des westlichen Norwegens. Bergen, Berg. Mus., Meeresf. Bergen, **1**, 1906, (73-112) 2 Taf.

Nordgaard, O. **2.** Bryozoa from the 2nd Fram Expedition 1898-1902. Kristiania, Report of the Second

Norwegian Arctic Expedition in the „Fram“ 1898-1902, No. **8**, 1906, (44), 4 pls.

Norman, A. [Alfred] M. [Merle]. Greenlandic Polyzoa. Ann. Mag. Nat. Hist., London, ser. **7**, **17**, 1906 (90-93).

Pace [Clark], R. [Rose] M. [Mabel]. On the early stages in the development of *Flustrella hispida* (Fabricius), and on the existence of a "yolk nucleus" in the egg of this form. Q. J. Microsc. Sci., London, **50**, 1906, (435-478), pls. xxii-xxv.

Pocock, T. I. Explanation of sheet 110. The geology of the country around Macclesfield, Congleton, Crewe, and Middlewick. With contributions by G. Barrow, W. Gibson, J. A. Howe, E. T. Newton, and C. B. Wedd. Mem. Geol. Surv. Eng., London, **110**, 1906 (vi + 138).

Raymond, Percy E. The Tropicoleptus fauna at Canadana lake, New York, with the ontogeny of twenty species. Pittsburgh, Pa., Ann. Carnegie Mus., **3**, 1904 (79-177).

Remeš, Mauric. **1.** Fauna t. zv. exotických balvanu štramberského vápence v Rychalticích na Moravě. Prag, Rozpr. České Ak. Frant. Jos., **14**, No. 6, 1905 (1-9).

Remeš, M. **2.** Fauna der sog. exotischen Blöcke des Stramberger Kalksteins in Rychaltitz (Mähren). Prag, Bull. Ac. Sci. Franç. Jos., Math., **10**, 1905 (33-7) [Abstract of **Remeš**, **1**].

Retzius, Gustaf. Die Spermien der Bryozoen. In: **Retzius**, Biolog. Untersuchungen, N.F., xiii, Jena (G. Fischer), 1906 (45-48) 1 Taf.

Römer, Otto. Untersuchungen über die Knospung, Degeneration und Regeneration von einigen marinen ectoprocten Bryozoen. Zs. wiss. Zool., Leipzig, **84**, 1906 (446-478), 2 Taf.

Sacco, Federico. Les étages et les faunas du bassin tertiaire du Piémont. Paris, Bul. Soc. géol., **5**, 1906, (893-916).

Schepotieff, A. Die Pterobranchier. Anatomische und histologische Untersuchungen über *Rhabdopleura normanii* Allman und *Cephalodiscus dodecalophus* McInt. Tl. 1: *Rhabdopleura normanii* Allman. Abschn. 1: Die

Anatomie v. *Rhabdopleura*. Zool. Jahrb., Jena, Abt. f. Anat., **23**, 1906, (463-531, mit 9 Taf.).

Schiller, K. *vide* Schorler, B., Thallwitz & Schiller.

Schmitt, Joseph. Monographie de l'Île d'Anticosti (Golfe Saint-Laurent). Paris (A. Hermann) 1904 (6 + 367) pls.

Schorler, B., **Thallwitz**, J. & **Schiller**, K. Pflanzen- und Tierwelt des Moritzburger Grossteiches bei Dresden. Ann. Biol. Lacustre, Bruxelles, **1**, 1906, (1-319).

Schuchert, Charles. Geology of the Lower Amazon region. J. Geol., Chicago Ill., **14**, 1906, (722-161).

Seeliger, Oswald. Ueber die Larven und Verwandtschaftsbeziehungen der Bryozoen. Zs. wiss. Zool., Leipzig, **84**, 1906, (1-78, 4 Taf.).

Seely, H. [Henry] M. [Martyn]. Beekmantown and Chazy formations in the Champlain valley, Contributions to their geology and palaeontology. Rept. Vermont State Geol., **1905-6**, (171-87).

Shimer, Hervey Woodburn. Upper siluric and Lower devonic faunas of Trilobite mountain, Orange County, New York. Albany Univ., N.Y., St. Educ. Dept. Mus., Bull., **80**, 1905, (173-269).

Sibley, T. [Thomas] F. [Franklin]. The carboniferous limestone of Burrington Combe, Bristol, Proc. Nat. Soc., ser. 4, **1**, 1905, (14-41).

Siemiradzki, Joseph. Monografia warstw paleozoicznych Podola. (Monographie paléontologique des couches paléozoïques de la Podolie.) Krakow, Bull. Intern. Acad., **1906**, (23-32).

Siemiradzky, Jos. von. **1**. Die Paläozoischen Gebilde Podoliens. I. Stratigraphischer Teil. Wien, Beitr. Pal. geol. Oest.-Ung., **19**, 1906, (173-212).

Siemiradzky, Jos. von. **2**. Die Paläozoischen Gebilde Podoliens. II. Paläontologischer Teil. Wien, Beitr. Pal. geol. Oest.-Ung., **19**, 1906, (213-86).

Silbermann, Samuel. Untersuchungen über den feineren Bau von *Meyonidium mytili*. Arch. Natg., Berlin, **72**, B. I. 1, 1906, (265-310) 2 Taf.

(s-9720 p)

Slocom, Arthur A. A list of devonian fossils collected in Western New York, with notes on their stratigraphic distribution. Chicago, Ill., Pub. Field Columb. Mus., Geol. Ser., **2**, No. 8, 1906, (257-65).

Thallwitz, J. *vide* Schorler, B., Thallwitz & Schiller.

Thévenin, Armand *vide* Boule, M.

Toldo, Giov. Note preliminari sulle condizioni geologiche dei contrafforti appenninici compresi fra il Sillaro e il Lamone. Roma, Boll. Soc. geol. Ital., **24**, 1905, (343-86).

Treacher, Llewellyn & **White**, Harold J. Osborne. The higher zones of the Upper chalk in the western part of the London basin. London, Proc. Geol. Ass., **19**, 1906, (378-99).

Treacher, Llewellyn *vide* White, H. J. O. & Treacher.

Ulrich, E[dward] O[scar]. Molluscordeia. Maryland Geol. Surv., Pliocene and Pleistocene, Baltimore, **1906**, (210-212).

Ussher, William Augustine Edmond *vide* Fox, H.

Vaughan, Arthur. **1**. Note on the Brachiopods and corals, collected by Dr. Brendon Gubbin, from the carboniferous limestone of South-west Gower, and the zones which they indicate. Bristol, Proc. Nat. Soc., ser. 4, **1**, 1906, (53-6).

Vaughan, A. **2**. The carboniferous limestone series (Avonian) of the Avon gorge. Bristol, Proc. Nat. Soc., ser. 4, **1**, 1906, (74-168).

Vaughan, Arthur *vide* Johns, C.

Vinassa de Regny, Paolo & **Gortani**, Michele. Fossili carboniferi del M. Pizzul e del piano di Lanza nelle Alpi Carniche. Roma, Boll. Soc. geol. Ital., **24**, 1905, (461-605).

Wanderer, Karl. Die Jura-Ablagerungen am Westrande des Bayrischen Waldes zwischen Regenstaufer und der Badenwöhrer-bucht. N. Jahrb. Min., Stuttgart, **21**, Suppl., 1906, (468-539).

Waters, Arthur Wm. Bryozoa from Chatham island and d'Urville island, New Zealand, collected by Professor

H. Schauinsland. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (12-23) pl. i.

Wedd, Charles Bertie v. Pocock, T. I.

Weeks, Fred Boughton. Bibliography and index of North American geology, paleontology, petrology, and mineralogy for the years 1901-1905, inclusive. Washington, D.C., U.S. Dept. Int., Bull. Geol. Surv., **301**, 1906.

Weltner, W[ilhelm]. *Pectinatella magnifica* (Leidy) bei Berlin. Arch. Natg., Berlin, **72**, Bd. 1, 1906, (259-264).

White, Harold J. Osborne & Treacher, Llewellyn. The phosphatic chalk of Winterbourne and Boxford (Berkshire). London, Q. J. Geol. Soc., **62**, 1906, (499-522).

White, Harold J. Osborne *vide* Treacher, L. & White.

Whiteaves, J. F. 1. Preliminary list of fossils from the silurian (Upper silurian) rocks of the Ekwan river and Sutton Mill lakes, Keewatin, collected by B. Dowling in 1901, with descriptions of such species as appear to be new. Rep. Geol. Surv. Canada, Ottawa, **14**, 1904, (38 F-59 F).

Whiteaves, J. F. 2. The fossils of the silurian (upper silurian) rocks of Keewatin, Manitoba, the north eastern shore of Lake Winnipegosis, and the lower Saskatchewan river. Ottawa, Geol. Surv. Canada, Pal. Fossils, **3**, 1906, (243-98).

Wilson, J. Howard. The pleistocene formations of Sankaty head, Nantucket. J. Geol., Chicago, Ill., **13**, 1905, (713-33).

Witte, Hernfrid. *Stratiatas aloides* L. funen i Sveriges postglaciala aflagringar. Stockholm, Geol. För. Förh., **27**, 1905, (432-50).

Woods, Henry. The cretaceous fauna of Pondoland [the Polyzoa by W. D. Lang]. Cape Town, Ann. S. Afric. Mus., **4**, 1906, (275-350).

Woodward, Henry *vide* Fox, H.

Zahálka, Čeněk. Pásmo X. křídového útvaru v Pojizeří [Zone X of the Cretaceous of the Iser District of Bohemia]. Prag, Sitz.-Ber. Böhm. Ges. Wiss., **1905**, No. 17, (1-184).

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2003

Bibliography.

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General, *Aleyonidium mytili*; **Silbermann.**

General, *Hispia*; **Annandale.**

General, *Loxosoma davenporti*; **Nickerson,**

General, larval *Pedicellina*, *Aleyonidium*, etc.; **Seeliger.**

General, *Plumatella javanica*; **Kraepelin.**

General, *Rhabdopleura*; **Schepotieff.**

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Budding, degeneration and regeneration in *Aleyonidium* and *Bugula*; **Römer**.

Spermatozoa, *Aleyonella*, *Triticella*; **Retzius**.

Polyspermie, *Membranipora*; **Bonnevie**.

Larvæ; **Seeliger**.

ETHOLOGY. 2019

Association of *Plumatella polymorpha* with *Astacus fluviatilis*; **Łomnicki**.

Membranipora membranacea, influence of brackish water; **Loppens**.

Plumatella repens, appearance in a heated aquarium; **Köhler**.

VARIATION AND
ÆTIOLOGY. 2023

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Topomorphs of Eleidae; **Lang**, 1.

DISTRIBUTION. 2027

(a) RECENT.

General.

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Europe.

W. Norway, fauna; *Bugula*, *Smithia*, spp. n.; **Nordgaard**, 1.

Germany, fauna of the Rhine district; **Lauterborn**.

Germany, *Pectinatella magnifica* (Leidy) bei Berlin; **Weltner**.

Germany, species from the Moritzburger Grossteich near Dresden; **Schorler**, **Thallwitz** & **Schiller**.

Holland, varieties of *Membranipora membranacea* in brackish water; **Loppens**.

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North Sea, distribution of "*Cyphonautes*" larva during 1903; **Apstein**.

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Canada, fossils from Beechy I.; Lancaster Sl.; and Cape Chidley; **Low**.

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†James’ types of Cincinnati group spp., re-described; **BASSLER**, Washington Proc. U. S. Nat. Mus. **30** (1-66).

†Cheilostomata, classification of Cretaceous forms, **BRYDONE**, Geol. Mag. London **1906**, (289-300).

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†*Ceramoporella irregularis* Rochester Shale, Lockport, N.Y. **sp. n.** BASSLER T.e. (21).

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†*Coeloclema cavernosa* Silurian Lockport, N.Y. and Osgood, Ind. **sp. n.**, BASSLER Washington U.S. Dept. Int. Bull. Geol. Surv. No. **292** (21).

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†*Cristatella mucedo*, occurrence of statoblasts in Swedish post-glacial deposits, WITTE, Stockholm Geol. För. Förh. **27** (132-50).

†*Diploclema sparsum* **var. n. argutum** Rochester Shale Lockport N.Y. BASSLER Washington U.S. Dept. Int. Bull. Geol. Surv. No. **292** (17).

†*Diplotrypa walkeri* Rochester Shale, **sp. n.** BASSLER Washington U.S. Dept. Int. Bull. Geol. Surv. No. **292** (47).

†*Elea meridiana* cretaceous S. Africa, **sp. n.** LANG, Cape Town, Ann. S. Afric. Mus. **4** (283).

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†*Eridotrypa nodulosa* (30), *similis* (31), *spinosa* (29-30), Rochester Shale **spp. n.**, BASSLER Washington U.S. Dept. Int. Bull. Geol. Surv. No. **292**.

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†*Eschara coseinopora*, type of *Cribricella* (q.v.).—*E. rouei*, cretaceous Norfolk **sp. n.**, BRYDONE, Geol. Mag. London **3** (296).

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†*Fistulipora crustula* (24), *lockportensis* (23) Rochester Shale **spp. n.**, BASSLER Washington U. S. Dept. Int. Bull. Geol. Surv. No. **292**.

Flustrella hispida, maturation, fertilization, segmentation and development of larval organs, PACE Q. J. Microsc. Sci. **50** (435-78).

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Hypophorella expansa, occurrence on the Irish coast, NICHOLS, A. R. Irish Nat. **15** (87).

Lepralia elirosa Chatham I. **sp. n.**, WATERS Ann. Mag. Nat. Hist. **17** (17-9).—*L. gemelliporoides* sub-antarctic S. Atlantic **sp. n.**, CALVET Paris, Bul. soc. zool. **29** (55).

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†*Lioeclemella macecombi* Rochester Shale **sp. n.** BASSLER Washington U. S. Dept. Int. Bull. Geol. Surv. No. **292** (36).

†*Loculipora ulrichi* **sp. n.**, *ambigua* **var. n. precursor** Rochester Shale, BASSLER T.e. (53).

Loxosoma davenporti **sp. n.** New England Coast, NICKERSON J. Morph. **17** (351-80).

Membranipora longispina sub-antarctic S. Atlantic **sp. n.**, CALVET Paris, Bul. soc. zool. **29** (52-3).—*M. membranacea* L., variations induced by habitat in brackish water, LOPIENS, Ann. Biol. Lacustre **1** (40-2).—*M. pilosa*, Polyspermie, BONNEVIE, Arch. Math. Naturv. Kristiania **27** (1-15).

†*Membranipora griffithi* (293), *triminghamensis* (294), *britannica* (294-95), **spp. n.**, cretaceous Norfolk, BRYDENE Geol. Mag., London **3**.—*M. varians* (14-5), *excavata* (15), *quadrata* (16), *flieki* (16-7), *bioculata* (17), *rotundicella* (18) **spp. n.** Tertiary, Tunis, CANU, Explor. sci. Tunisie.

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†*Mitoclema sarlei* Silurian Rochester N.Y. **sp. n.** BASSLER Washington U. S. Dept. Int. Bull. Geol. Surv. No. **292** (18).

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†*Montienlipora insularis* Chazy formation Vermont **sp. n.**, SEELY Rep. Vermont State Geol. **1905-6**, (185).

†*Mucronella batheri*, cretaceous Norfolk **sp. n.**; BRYDENE Geol. Mag. London **3** (298-9) fig. 10.

†*Nicholsonella ringuebergi* Rochester Shale Lockport N.Y. **sp. n.**, BASSLER Washington U. S. Dept. Int. Bull. U. S. Geol. Surv. No. **292** (39).

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Plumatella javanica **sp. n.** Java, KRAEPELIN Hamburg Jahrb. wiss. Anat. **23** Suppl. 2 (143-6).—*P. polymorpha* **var. fungosa** growing on *Astacus fluvialis*, ŁOMNICKI, Kosmos Lwów **31**, (249-56).—*P. repens*, spontaneous appearance of a colony in a heated aquarium, KÖHLER.

†*Polypora pentagonalis* Silurian Gotland **sp. n.**, HENNIG Ark. Zool. Stockholm **3** No. 10 (12-4).

Porcella alba, umbonata, **spp. n.** Arktisch, NORDGAARD, Rept. 2nd "Fram" Expdn., No. **8**.—*P. rouzaudi* sub-antarctic S. Atlantic **sp. n.** CALVET Paris Bul. soc. zool. **29** (57).

†*Poricella*, **gen. n.** type *maconnica* **sp. n.** Lower Eocene Tunis, CANU Explor. sci. Tunisie (28).

†*Prasopora hero* Chazy formation Vermont **sp. n.** SEELY Rep. Vermont State Geol. **1905-6** (187).

Ramphostomella hincksi **nom. n.** (*Cellepora plicata*), Arktisch, NORDGAARD, Rept 2nd "Fram" Expdn. No. **8**.

Retepora magellensis **var. n.** *ariculifera* sub-antarctic, S. Atlantic, CALVET Paris, Bul. soc. zool. **29** (58).

Rhabdopleura normani, anatomy SCHEPOTIEFF, Zool. Jahrb. Anat. **23** (463-534) 9 Taf.

†*Rhombopora schellwieni* Upper Carboniferous Carnic Alps **sp. n.**, JOHNSEN N. Jahrb. Min. **1906** II Abhandl. (142-3).

†*Rhombotrypa spinulifera* Rochester Shale **sp. n.**, BASSLER Washington U. S. Dept. Int. Bull. Geol. Surv. No. **292** (37).

Schizoporella bidenkapi, *bispinosa*, *condylata*, *magniporata*, **spp. n.** Arktisch, NORDGAARD Rept. 2nd "Fram" Expdn. No. **8**.—*S. ornata* (56), *pellucidula*, (56-7), sub-antarctic, S. Atlantic, **spp. n.** CALVET Paris Bul. soc. zool. **29**.

Schizotheca serratimargo Hincks NEVIANI, Napoli, Annuario Museo zool. N. S., **2**, No. 1, 1905.

†*Semicosciniun balticum* Silurian Gotland **sp. n.** HENNIG Ark. Zool. Stockholm **3** No. 10 (7-11).

†*Semieschura mundesleiensis* (295), *canui* (295-96), *woodsii* (299), *pergensii* (299-300), cretaceous Norfolk **spp. n.** BRYDENE Geol. Mag. London **3**.

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†*Septopora triangularis* Upper Carboniferous Carnic Alps **sp. n.**, JOHNSEN N. Jahrb. Min. **1906** II Abhandl. (157).

†*Siphoniotyphlis tenuis* Hag., in the Trimmingham Chalk, BRYDONE Geol. Mag., London 1906 (128).

Smittia lerinseni sp. n. Norwegen, NORDGAARD, Bergen Meeresf. Bergen 1, (92).—*S. maunganuiensis* Chatham I. and N. Zealand sp. n., WATERS Ann. Mag. Nat. Hist. 17 (19).

†*Sphragiopora silurica* Silurian Gotland sp. n., HENNIG Ark. Zool. Stockholm 3 No. 10 (17-8).

†*Stigmatella globata* Rochester Shale N. York sp. n., BASSLER Washington U. S. Dept. Int. Bull. Geol. Surv. No. 292 (28).

†*Stomatopora minor* Silurian Gotland sp. n., HENNIG Ark. Zool. Stockholm 3 No. 10 (24-5).

†*Tæniodictya schucherti* Rochester Shale Grimsby Ont. sp. n. BASSLER Washington U. S. Dept. Int. Bull. Geol. Surv. No. 292 (59).

Thalamoporella michaelsoni, sub-antarctic S. Atlantic sp. n., CALVET Paris, Bul. soc. zool. 29 (54-5).

†*Thamniscus törnqvisti* Silurian Gotland sp. n., HENNIG Ark. Zool. Stockholm 3 No. 10 (15-7).

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VIII. MOLLUSCA

ARRANGEMENT COMMENCED BY

E. R. SYKES

COMPLETED BY

S. PACE AND R. M. PACE

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I.—TITLES.

Anon. The Manatee snail *Bulimulus dormani*. [Press Bulletin No. 59, Florida Agricultural Experiment Station.] Nautilus, Boston, Mass., **19**, 1906, (6-9).

Adams, Lionel Ernest. **1.** The Collectors' Manual of British Land and Freshwater Shells. . . . Edn. 2, London, 1906, (ii + 214, 11 pls. col.).

Adams, L. E. **2.** Conchological notes from Japan. *J. Conch.*, Leeds, **11**, 1906, (355-356).

Adams, L. E. **3.** *Vallonia costata* + *excentrica*. *J. Conch.*, Leeds, **11**, 1906, (364-365).

Aeberhardt, B. **1.** Note sur la faune de l'Oxfordien inférieur du Jura bernois. *Eclog. géol. Helvét.*, **8**, 1905, (439-444).

Aeberhardt, B. **2.** Etude sur le système nerveux de quelques gastropodes. Bern, Mitt. Natf. Ges., **1905**, (112-32).

Alessandri, G. de. Nouveau genre de Céphalopodes de l'Éocène des environs de Paris. Feuilles jeunes natural., Paris, **1906**, (70-73). [Translation from *Rivista ital. Paleont.*]

Allen, Arthur W. Some notes on the Life-history of *Margaritifera panasesæ*. London, *J. Linn. Soc. Zool.*, **29**, 1906, (410-413).

Ancey, C. F. **1.** Observations sur les mollusques gastéropodes séneestres de l'époque actuelle. *Bul. sci. France Belgique*, Paris, **40**, 1906 (187-206).

Ancey, C. F. **2.** Relevé des Mollusques terrestres et fluviatiles de la péninsule arabique. *J. conchyliol.*, Paris, **53**, 1906, (257-271); addenda au relevé etc., même Tome. (471).

Ancey, C. F. **3.** Additions au relevé des Mollusques terrestres et fluviatiles de la péninsule arabique. *J. conchyliol.*, Paris, **54**, 1906, (24-26).

Ancey, C. F. **4.** Réflexions sur la faune malacologique du Lac Tanganika et catalogue des mollusques de ce lac. *Bul. sci. France Belgique*, Paris, **40**, 1906 (229-270).

Ancey, C. F. **5.** Sur divers Mollusques terrestres de la Chine et du Japon. *J. conchyliol.*, Paris, **54**, 1906, (12-23, av. fig.).

Ancey, C. F. **6.** Sur l'*Omphalotropis annatonensis* Pfr. et les formes voisines. *J. conchyliol.*, Paris, **53**, 1906, (298-301, av. fig.).

Ancey, C. F. **7.** Description de deux espèces nouvelles d'*Helicina*. *J. conchyliol.*, Paris, **54**, 1906, (125-128, av. fig.).

Ancey, C. F. **8.** Descriptions of two new *Cleopatra* and a *Pisidium*. Nautilus, Boston, Mass., **20**, 1906, (45-46).

Ancey, C. F. **9.** *Chloritis edwardi*, Gude. Nautilus, Boston, Mass., **20**, 1906, (47).

Ancey, C. F. **10.** Notes critiques et synonymiques. *J. conchyliol.*, Paris, **53**, 1906, (310-327).

André, Emile. Supplement aux Mollusques d'Amboine et description d'un nouveau genre de la famille des Phyllirhoës. *Rev. Suisse Zool.*, Genève, **14**, 1906, (71-80).

Andrew, Arthur R. On the geology of the Clarendon Phosphate-deposits, Otago, New Zealand. Wellington, Trans. Proc. N. Zeal. Inst., **38**, 1906, (447-82).

Andrussow, N. Maeotische Stufe. St. Petersburg, Verh. Russ. mineral. Ges., **43**, 1905, (289-451, mit Taf. 5-6).

Anfrie, Émile. Sur l'habitat de *Bulinus acutus* Müll. Rouen, Bul. Soc. Amis Sci. nat., **41**, 1906, (357-8).

Anthony, R. 1. La forme générale, le muscle adducteur et le ligament chez les Placunes. Paris, Bul. Ass. franç. avanc. sci., **1905**, (334).

Anthony, R. 2. Contribution à l'étude du mode de vie et de la locomotion du *Pecten*. Bul. Mus., Monaco, No. **85**, 1906, (10).

Anthony, R. 3. Liste des Mollusques Acéphales du golfe de Tadjourah. Bul. Muséum, Paris, **11**, 1905 [?], (489-500).

Anthony, R. et Neuville, H. Aperçu sur la faune malacologique des lacs Rodolphe, Stéphanie et Marguerite. Paris, C.-R. Acad. sci., **143**, 1906, (66-67).

Anthony, R. vide Neuville, H. et Anthony.

Ariola, V. Ricerche sulla digestione delle Aplisie. Genova, Atti Soc. ligustica sci. nat. geogr., **17**, 1906, (110-116).

Arnold, Ralph. The Tertiary and Quaternary Pectens of California. Washington, D.C., Dept. Int., U. S. Geol. Surv., Prof. Papr., No. **47**, 1906, (1-264 + iii, with map, pl., text fig.). 29.5 cm.

Ascher, Else. 1. Die Gastropoden, Bivalven und Brachiopoden der Grodischter Schichten. Wien, Beitr. Pal. Geol. OestUng., **19**, 1906, (135-172, mit 3 Taf.).

Ascher, E. 2. Einige Worte über die Gastropoden, Bivalven und Brachiopoden der Grodischter Schichten. Wien, Verh. Geol. RehsAnst., **1906**, (359-362).

Ashworth, J. H. and Hoyle, W[illiam] E. The species of *Ctenopteryx*, a genus of Dibranchiate Cephalopoda. Manchester, Mem. Lit. Phil. Soc., **50**, No. 14, 1906, 8 pp.

Babor, J. F. 1. Liste des Espèces récoltées à Saint-Acheul dans la couche H. Amiens, Bull. Soc. linn., **18**, 1906, (29-33).

Babor, J. F. 2. Ergebnisse einer naturwissenschaftlichen Reise zum Erdschias-Dagh (Kleinasien). Nackt- (N-9720 r)

schnecken. Wien, Ann. Nat. Hist. Hofmus., **20**, 1905, (291-294).

Bacci, Pietro E. e Bernardi, Ilio. I Molluschi [contd.]. Riv. Ital. Sc. nat., Siena, **26**, 1906, (44-48).

Baker, Frank Collins. 1. Application of De Vries' mutation theory to the Mollusca. Amer. Nat., Boston, Mass., **40**, 1906, (327-334, with text-fig.).

Baker, F. C. 2. A catalogue of the Mollusca of Illinois. Urbana, Bull. Ill. Lab. Nat. Hist., **7**, 1906, (1 l. + 53-136 + 1 l., with map). 25.5 cm.

Baker, F. C. 3. Notes on a collection of mollusks from the vicinity of Alpena, Michigan. St. Louis, Mo., Trans. Acad. Sci., **16**, 1906, (1-15, with pl.).

Baker, F. C. 4. *Lymnaea hinkleyi* n. sp. Nautilus, Boston, Mass., **19**, 1906, (142-143).

Baker, F. C. 5. *Lymnaea danielsi* n. sp. Nautilus, Boston, Mass., **20**, 1906, (55-56).

Baker, F. C. 6. A new locality for *Planorbis nautilus* Linne. Nautilus, Boston, Mass., **19**, 1906, (120).

Baker, F. C. 7. A new *Sphaerium* from Illinois. Nautilus, Boston, Mass., **20**, 1906, (21-22).

Balch, Francis N[oyes]. Remarks on certain New England chitons, with description of a new variety. Nautilus, Boston, Mass., **20**, 1906, (62-68).

Baldwin, D. D. Description of new species of *Achatinellidae* from the Hawaiian islands. Nautilus, Boston, Mass., **19**, 1906, (111-113, 135-138).

Bárðarson, Gudmundur G. *Purpura lapillus* L. i hævede Lag paa Nordkysten af Island. [*Purpura lapillus* L. in raised beds on the north coast of Iceland.] Kjöbenhavn, Nath. Medd., **1906**, (177-185).

Bartsch, Paul. 1. Descriptions of two new Naiads. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc., **30**, 1906, (393-395, with pl.).

Bartsch, P. 2. The urocoptid mollusks from the mainland of America in the collection of the United States National museum. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **31**, 1906, (109-160, with pl., text fig.).

Bartsch, P. *vide* Dall, W. H. and Bartsch.

Bavay, A. 1. Mollusques trouvés dans les résidus de dragage du Travailleur. Bul. Muséum, Paris, **12**, 1906, (547-549).

Bavay, A. 2. Sur quelques espèces ou variétés nouvelles du genre *Pecten*. J. conchyliol., Paris, **53**, 1906, (243-247, av. fig.).

Bavay, A. 3. Note au sujet de *Pecten* de la République argentine. J. conchyliol., Paris, **54**, 1906, (7-11, av. fig.).

Bavay, A. 4. Sur quelques coquilles oubliées du Muséum. J. conchyliol., Paris, **53**, 1906, (248-256, av. fig.).

Bavay, A. 5. Mission des Pêcheries de la cote occidentale d'Afrique. Bordeaux, actes soc. linn., **61**, 1906, (185-187).

Bavay, A. *vide* Neveu-Lemaire and others; *vide* Tillier, L. and Bavay.

Beddome, R[ichard] H[enry]. Notes on Indian and Ceylonese species of *Glossula*. London, Proc. Malac. Soc., **7**, 1906, (160-172), pl. xv.

Beeston, [Harry]. West Lancashire non-marine Mollusca: Morecambe district. J. Conch., Leeds, **11**, 1906, (346-350).

Bellini, Raffaello. Le varie facies del Miocene medio nelle colline di Torino. Roma, Boll. soc. geol. Ital., **24**, 1906, (607-653).

Benham, W[illiam] B[axland]. Pterotracheid from Pacific Ocean (*Carinaria australis*). Wellington, Trans. N. Zeal. Inst., **38**, 1906, (245-248).

Bérenghier, Paul. Dragages malacologiques au creux de la Fontaine de Nîmes. Nîmes, Bul. soc. étud. sci. nat., **33**, 1906, (142-144).

Bergh, R[udolf]. Ueber clado- und holohepatische nudibranchiate Gastropoden. Zool. Jahrb., Jena, Abt. f. Syst., **23**, 1906, (739-742, mit 1 Taf.).

Bernardi, Illo. *vide* Bacci, P. E. and Bernardi.

Berry, S. S. Note on a new variety of *Cerithidea sacrata* Gld., from San Diego, Cal. Nautilus, Boston, Mass., **19**, 1906, (133, with text fig.).

Biedermann, W[ilhelm]. Studien zur vergleichenden Physiologie der peristaltischen Bewegungen. III. Die Innervation der Schneckensole. Arch. ges. Physiol., Bonn, **111**, 1906, (251-297, mit 3 Taf.).

Bierry et **Giaje**. Digestion des glucosides et des hydrates de carbone chez les mollusques terrestres. Paris, C.-R. soc. biol., **61**, 1906, (485-486).

Bigot, A. Catalogue critique de la Collection Defrance, conservée au musée d'histoire naturelle de Caen. Caen, Bul. soc. linn., **9**, 1906, (3-40).

Blaney, Dwight. 1. Shell-bearing Mollusca of Frenchman's Bay, Maine. Nautilus, Boston, Mass., **19**, 1906, (110-111).

Blaney, D. 2. Dredging in Frenchman's Bay, Maine. Nautilus, Boston, Mass., **19**, 1906, (128-130).

Blanford, S. T. Obituary. London, Proc. Malac. Soc., **7**, 1906, (64-66), portrait.

Blatin, Marc et **Viès**, Frédéric. Système artériel de l'Aplysie (*Aplysia punctata* Cuvier). Arch. zool., Paris, (sér. 4), **5**, 1906, (notes et revues, xc-cii, av. fig.).

Blayac, J. Le Gault et le Cénomanien du bassin de la Seybaisé et des hautes plaines limitrophes (Algérie). Paris, C.-R. Acad. sci., **143**, 1906, (252-255).

Bloomer, H. H. [Howard]. On the anatomy of *Ensis macha*, *Solen fonesii*, and *S. viridis*. London, Proc. Malac. Soc., **7**, 1906, (18-19).

Bloomer, H. H. *vide* Smith, E. A. and Bloomer.

Blume, W. 1. Nachtrag zur Mollusken-Fauna Münchens. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (72).

Blume, W. 2. Die Mollusken von St. Jodok a. Brenner. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (107-109).

Blundell, Jessie M. Do Swans eat *Anodonta cygnea*? J. Conch., Leeds, **11**, 1906, (318).

Bochenek, A. Badania nad budową systemu nerwowego centralnego mięczaków, osłonie i szkarłupni (*Anodonta*, *Ciona*, *Synapta*). [Untersuchungen über das zentrale Nervensystem

der Wirbellosen. (*Anadonta*, *Ciona*, *Synapta*). Kraków, Rozpr. Akad., 45 B, 1905, (262-277, mit 1 Taf. und 2 Fig.).

Boehm, Georg. Zur Stellung von *Lithiotis*. Centralbl. Min., Stuttgart, 1906, (161-167, 458).

Böse, Emilio. 1. Sobre algunas Faunas Terciarias de Mexico. Mexico, Bol. Inst. Geol., 22, 1906, (96, 12 pls.).

Böse, E. 2. La fauna de Moluscos del Senoniano de Cárdenas, San Luis Potosi. [La faune des Mollusques du Sénonien de Cardenas]. Mexico, Bol. Inst. Geol., No. 24, 1906, (1-95, av. 18 pls.).

Boettger, Caesar. Aus dem Leben einer *Ampullaria*. Frankfurt a. M., NachrBl. D. malakozool. Ges., 38, 1906, (219-220).

Boettger, O. [Oskar]. 1. Zur Kenntnis der Fauna der mittel-miocänen Schichten von Kostež im Krossó-Szörényer Komitat. Hermannstadt. Verh. Mitth. siebenb. Ver. Naturw., 54, [1904], 1906, (I-VIII+1-99).

Boettger, O. 2. Verzeichnis der recenten Versteinerungen von Ambon. Jaarb. Mijuw. Ned. Ind., Batavia, 34, 1905, (153-5).

Boettger, O. 3. Ueber *Paludina vivipara* L. aus dem Züricher See. Wochenschr. Aquarientkunde, Braunschweig, 3, 1906, (175).

Boettger, O. 4. Ueber *Lartetia* Bgt. und über D. Geyers Beiträge zur Vitrellenfauna Württembergs. Frankfurt a. M., NachrBl. D. malakozool. Ges., 38, 1906, (30-32).

[Bogatchew, V.] Богачевъ, В. Новые виды моллюсковъ изъ миоценовыхъ отложений окрестностей г. Новочеркасска. [Nouvelles espèces de Mollusques des dépôts miocènes aux environs de Novotcherkassk.] St. Peterburg, Bull. Com. géol., 24, 1905, (159-181); Rés. franç. (181-185+186-188, mit 2 Taf.).

[Bogdanovič, K.] Богдановичъ, К. Система Дибра въ Юговосточномъ Кавказѣ. [Das Dibrar-System im südöstlichen Kaukasus]. St. Peterburg, Mém. Com. géolog., (N. Sér.), 26, 1906, (VI+1-136+177-179); deutsches Rés., (137-175, mit 9 Taf. u. 1 Karte).

Boissevain, Maria. The Scaphopoda of the Siboga Expedition treated together with the known Indo-Pacific Scaphopoda. Rés. explor. Siboga, Leide, 54, [livr. 32], 1906, (1-76), 6 pls.

Bonnevie, Kristine. 1. Untersuchungen über Keimzellen. 1. Beobachtungen an den Keimzellen von *Enteroxenos östergreni*. Jenaische Zs. Natw., 41, 1906, (229-428, mit 8 Taf.).

Bonnevie, Kristine. 2. Undersegelser over kimcellerne hos *Enteroxenos östergreni*. [Untersuchungen über die Keimzellen von *Enteroxenos östergreni*.] Arch. Math. Naturv., Kristiania, 27, No. 12, 1906, (46, mit 3 Taf.).

Borcharding, Fr. Achatinellen-Fauna der Sandwich-Insel Molokai. Zoologica, Stuttgart, H. 48 I. u. II = Bd 19, Lfg 5 u. 6, 1906, (VII+195, mit 10 Taf. u. 1 Karte).

Borissjak, A. 1. Die Pelecypoden der Jura-Ablagerungen im europäischen Russland. II. *Areidae*. St. Peterburg, Mém. Com. Géolog., n. ser., 19, 1905, (1-63).

[Borissjak, A.] 2. Борисякъ, А. Pelecypoda юрскихъ отложений европейской Россіи. Вып. III. *Mytilidae*. [Die Pelecypoden der Jura-Ablagerungen im europäischen Russland. III. *Mytilidae*.] St. Peterburg, Mém. Com. géolog., N. Sér., 29, 1906, (1-22); deutsch. Rés., (23-35 mit 2 Taf.).

Borissiak, A. 3. Тератолого-конхилогическія замѣтки. [Teratological Notes.] St. Peterburg, Bull. Ac. Sc., 20, 1904, (135-44).

Boule, Marcellin, Lemoine, Paul, et Thévenin, Armand. Paléontologie de Madagascar. III. Céphalopodes crétacés des environs de Diégo-Suarez. Ann. Paléont., Paris, 1, 1906, (173-192, av. fig. et pag. spéc., 1-20).

[Boule, Marcellin et Thévenin, Armand.] Types du Prodrôme de Paléontologie stratigraphique universelle de d'Orbigny. Paris, Ann. Paléont., 1, 1906.

Boule, Marcellin, Thévenin, Armand et Lambert, J. Paléontologie de Madagascar I. Fossiles de la cote orientale. Ann. paléont., Paris, 1, 1906, (43-59, a. fig.).

- Bouly de Lesdain** *vide* Giard, A. 1.
- Bounhiol, J.** Sur le gisement huître naturel de la Macta (Algérie) et le régime d'écoulement de cette rivière. Paris, C.-R. Acad. sci., **142**, 1906, (593-595).
- Bourne, Gilbert C.** Report on *Jous-seaumia*, a new genus of Eulamelli-branchis commensal with the corals *Heterocyathus* and *Heteropsammia*. Ceylon Pearl Oyster Fish. Rep., **5**, 1906, (243-266), pls.
- Boussac, Jean.** Première note sur les Cérithes. Revision du groupe du *Potamides tricarínatus* Lamk. Paris, Bul. Soc. geol., **5**, 1906, (669-678).
- Bradley, Harold C.** *vide* Mendel, L. B. and Bradley.
- Brancsik, K.** Sechs Wochen durch Dalmatien, Hercegovina und Bosnien. Trencsén, m. term. társ. évk., **27-28**, 1906, (136-193).
- Bridgman, F. G.** 1. Description of a new species of *Oliva*. London, Proc., Malac. Soc., **7**, 1906, (17), fig.
- Bridgman, F. G.** 2. Note on a new variety (var. *longispira*) of *Oliva ispidula*. London, Proc. Malac. Soc., **7**, 1906, (195).
- Brüel, Ludwig.** Über die Geschlechts- und Verdauungsorgane von *Caliphylla mediterranea* Costa: Ihr morphologischer Wert und ihre physiologische Leistung. [Hab.-Schr.] Halle a. S. (E. Karras), 1904, (IV + 116). 22 cm.
- Brusina, Sp[iridon].** 1. *Lanzaia*, eine neue Gasteropoden-Gattung der Adria. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (154-162).
- Brusina, S.** 2. Revision des *Dreissensidae* vivantes du système européen. J. conchyliol., Paris, **53**, 1906, (272-297).
- Bryan, W. A.** A monograph of Marcus Island. Honolulu, 1906, (139 pp.).
- Buckman, S. S.** Some Lias Ammonites: *Schlotheimia* and species of other Genera. Gloucester, Proc. Cotteswold Nat. F. Cl., **15**, 1906, (231-254), pls.
- Bülow, C.** 1. Einige Seltenheiten aus meiner Sammlung. IV. [*Murex*, *Conus*, *Pleurotoma*, *Isocardia*]. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (33-38, mit 2 Taf.).
- Bülow, C.** 2. Einige Seltenheiten aus meiner Sammlung. [*Fusus*, *Murex*, *Mitra*]. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (196-200, mit 2 Taf.).
- Bullen, R. [Robert] Ashington.** 1. On some land and fresh-water Mollusca from Sumatra. London, Proc. Malac. Soc., **7**, 1906, (12-16, pl. ii).
- Bullen, R. A.** 2. On some land and fresh-water Mollusca from Sumatra. Part II. London, Proc. Malac. Soc., **7**, 1906, (126-130), figg.
- Burckhardt, Carl.** Le gisement supracrétacique de Roca (Rio Negro). Rev. Mus. La Plata, **10**, 1902, (207-24, 4 pls.).
- Burckhardt, C.** *vide* Roth, S., Kurtz and Burckhardt.
- Burne, [Richard] [Higgins].** Notes on the Anatomy of South African *Aplysiidae*, with descriptions of two new species. London, Proc. Malac. Soc., **7**, 1906, (51-58), figg.
- Burnet, Arthur.** Notes on the Upper Chalk of Lincolnshire. Naturalist, London, 1906, (207-212).
- Button, Fred L.** Note on *Trivia acutidentata* Gask. Nautilus, Boston, Mass., **19**, 1906, (132).
- Byne, [Loftus] [St. George].** The prevention of corrosion in shells. J. Conch., Leeds, **11**, 1906, (360-361).
- Carlson, Anton Julius** *vide* Jenkins, O. P. and Carlson.
- Carpenter, [Geoffrey] H. D. and Napier, H. C.** Record of Mollusca [Oxfordshire]. Oxford, Rep. Ashmol. Nat. Hist. Soc., **1905**, [1906], (39-40).
- Cary, L. R.** 1. The conditions for oyster culture in the waters of Vermilion and Iberia parishes, Louisiana. Cameron, La., Gulf Biol. Sta., Bull., No. **4**, 1906, (1-27, with fold. chart). 22.8 cm.
- Cary, L. R.** 2. Further studies on the oyster at Calcasieu Pass. Cameron, La., Gulf Biol. Sta., Bull., No. **6**, 1906, (7-28).
- Cary, L. R.** 3. A preliminary report on the oysters of Chandeleur Sound. Cameron, La., Gulf Biol. Sta., Bull., No. **6**, 1906, (45-49).
- Caullery, Maurice et Chappellier, Albert.** *Anurosporidium Pelseneeri*

n. g., n. sp. Haplosporidie infectant les sporocystes d'un Trématode parasite de *Donax trunculus* L. Paris, C.-R. soc. biol., **60**, 1906, (325-328, av. fig.).

Caziot, [Eugène]. **1.** Études malacologiques sur quelques espèces asiatiques qui se sont répandues dans le sous-centre alpin et hispanique. Feuille jeunes natural., Paris, **37**, 1906, (25-28).

Caziot, [E.]. **2.** Étude sur quelques espèces de la région circa-méditerranéenne. Feuille jeunes natural., Paris, Ser 4, **38**, 1905, (117-119).

Caziot, [E.]. **3.** Étude sur quelques espèces de la région méditerranéenne. Feuille jeunes natural., Paris, ser. 4, **36**, 1906, [1905], (1-4).

Caziot, [E.]. **4.** Faunule malacologique quaternaire récent de Nice (Alpes-Maritimes). Lyon, Ann. soc. linn., **52**, 1906, (43-52).

Caziot, [E.]. **5.** Description des Mollusques Rognaciens des Collines de Castigno. Béziers, Bull. Soc. étud. sci. nat., **27**, 1906, (17-32).

Caziot, [E.]. **6.** Complément à l'étude de *Helix vermiculata*. Paris, Bul. soc. zool., **30**, 1905, (11).

Caziot, E. *vide* Maury, E., and Caziot.

Caziot, [E.] et **Fagot**. **1.** Étude sur quelques coquilles de la région circa-méditerranéenne: *Helix vermiculata*. Paris, Bul. soc. zool., **29**, 1904, (19-23).

Caziot, [E.] et **Fagot**. **2.** Étude sur quelques coquilles de la région circa-méditerranéenne (*Helix serpentina*). Paris, Bul. soc. zool., **30**, 1905, (12-15).

Caziot, [E.] et **Fagot**. **3.** Étude sur quelques coquilles de la région méditerranéenne (*Helix muralis*). Paris, Bul. soc. zool., **30**, 1905, (17-18).

Caziot, [E.] et **Fagot**. **4.** Étude sur les *Helix* de la section *Elisma*. Feuille jeunes natural., Paris, ser. 4, **36**, 1906, (121-125).

Chadwick, George H. **1.** Notes on Wisconsin Mollusca. Milwaukee, Bull. Wis. Nat. Hist. Soc., N. Ser., **4**, 1906, (67-99).

Chadwick, G. H. **2.** List of Wisconsin shells. Nautilus, Boston, Mass., **20**, 1906, (22-24).

Chadwick, G. H. **3.** Shells of Prince Edward Island. Nautilus, Boston, Mass., **19**, 1906, (103-104).

Chappellier, Albert *vide* Caullery, M. and Chappellier.

Chaster, G[eorge] W[illiam]. *Jaminia triplicata* Studer, a new British Mollusc. J. Conch., Leeds, **11**, 1906, (319-320).

Chemnitz *vide* Martini.

Choffat, Paul. Espèces nouvelles ou peu connues du mésozoïque Portugais. Conchyliol., Paris, **54**, 1906, (33-41).

Chun, Carl. **1.** Ueber die Geschlechtsverhältnisse der Cephalopoden. Zool. Anz., Leipzig, **29**, 1906, (743-753).

Chun, C. **2.** System der Cranchien. Zool. Anz., Leipzig, **31**, 1906, (82-86).

Clapp, Geo. H. **1.** Notes on *Carychium* and description of a new variety. Nautilus, Boston, Mass., **19**, 1906, (138-140, with pl.).

Clapp, G. H. **2.** *Epiphragmophora kellestii* (Fbs.) and *E. stearnsiana* (Gabb.) Nautilus, Boston, Mass., **20**, 1906, (13-16, with text fig.).

Clark, W[illiam] B[ullock]. Mollusca. [Pleistocene.] Maryland Geol. Surv., Pliocene and Pleistocene, Baltimore, **1906**, (176-210, with pl.).

Clessin, S. **1.** Die Conchylien des „Löss“ der Umgebung Regensburg. Regensburg, Ber. naturw. Ver., **10**, 1905, (16-38).

Clessin, S. **2.** Eine altaluviale Conchylienfauna bei Pürklgut. Regensburg, Ber. naturw. Ver., **10**, 1905, (39-45).

Clessin, S. **3.** Eine alpine Schnecke bei Donaustauf. Regensburg, Ber. naturw. Ver., **10**, 1905, (46).

Clessin, S. **4.** Die Conchylienfauna eines pleistocänen Tufflagers im Tale der schwarzen Laaber bei Regensburg. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (101-107).

Clessin, S. **5.** Zur Conchylienfauna des Löss im Gebiete der Donau. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (167-168).

Cockerell, T[hodore] D[ru] A[lison]. **1.** The fossil Mollusca of Florissant, Colorado. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, 1906, (459-462, with text fig.).

Cockerell, T. D. A. 2. A fossil form of *Oreohelix yarapai*, Pilsbry. Nautilus, Boston, Mass., **19**, 1905, (46-47).

Cockerell, T. D. A. 3. *Helix hortensis* in Newfoundland. Nautilus, Boston, Mass., **20**, 1906, (94).

Cockerell, T. D. A. 4. A new Tertiary *Planorbis*. Nautilus, Boston, Mass., **19**, 1906, (100-101). Errata. *l.c.* (120).

Cockerell, T. D. A. 5. Subspecies, mutations and forms. Nautilus, Boston, Mass., **20**, 1906, (58-60).

Colgan, N. 1. New Marine Mollusca from Co. Dublin. Irish Nat., Dublin, **15**, 1906, (172).

Colgan, N. 2. Marine Mollusca of South-east Wexford. Irish Nat., Dublin, **15**, 1906, (235).

Collet, A. *vide* Roux, C. and Collet.

Collot, L. Sur le *Reineckea angustilobata* Bras. sp. et la *Praeonia dollfussi* Jul. Rasp. du Callovien. Feuille jeunes natural., Paris, **36**, 1905, (25-28).

Comber, E. A List of the Marine Mollusca in the Bombay Natural History Society's collection. Bombay, J. Nat. Hist Soc., **17**, 1906, (207-218).

Combes, Paul. Sur l'extension de l'invasion marine du Sparnacien supérieur aux environs de Paris. Paris, C.-R. Acad. Sci., **142**, 1906, (1574-1576).

Cooke, C. M., jun. *vide* Pilsbry, H. A. and Cooke.

Cooper, J. [James] E. [Eddowes]. British species of *Vallonia*. J. Conch., Leeds, **11**, 1906, (341).

Cornet, J. 1. Le terrain houiller sans houille (II 1 a) et sa faune dans le bassin du couchant de Mons. Liège, Ann. Soc. Géol. Belgique, **33**, 1906, (M. 139-152).

Cornet, J. 2. Sur la faune du terrain houiller inférieur de Bandour (Hainaut). Paris, C.-R. Acad. Sci., **142**, 1906, (734-736).

Cossmann, M[aurice]. Description de quelques Pélécy-podes Jurassiques de France. Paris, C.-R. Ass. franç. avanc. sci., **34**, 1906, (284-297).

Crick, G. [George] C. [Charles]. 1. On some fossil Cephalopoda from North Cornwall, collected by Mr. Howard Fox,

F.G.S. Penzance, Trans. R. Geol. Soc. Cornwall, **13**, 1906, (63-71, 1 pl.).

Crick, G. C. 2. Note on a rare form of *Actinocamax* (*A. grossourrei*) from the Chalk of Yorkshire. Naturalist, London, **1906**, (155-158).

Crossland, Cyril *vide* Eliot, C. N. E.

Crowther, John E. *Testacella scutulum* at Rastrick. Naturalist, London, **1906**, (252).

Cuénot, L. Les Eolidiens empruntent leurs nématocystes aux Coelentérés dont ils se nourrissent. Paris, C.-R. soc. biol., **61**, 1906, (541-543); Réunion biologique de Nancy, **1906**, (59-61).

Da Costa, S. [Solomon] I. [Israel] 1. Descriptions of new species of *Drymaeus*, *Amphicyclotus* and *Neocyclus*, from South and Central America. London, Proc. Malac. Soc., **7**, 1906, (7-10), pl. i.

Da Costa, S. I. 2. Description of a new species of *Achatina* from Mashonaland. London, Proc. Malac. Soc., **7**, 1906, (11, fig.).

Da Costa, S. I. 3. Descriptions of new species of land shells from Peru and Colombia and two new species of *Curella* from the Philippine Islands, London, Proc. Malac. Soc., **7**, 1906, (97-99, pl. xi.).

Dacqué, Edgar. 1. Einiges über den Gattungs- und Artbegriff. Dürkheim, Mitt. Pollichia, **60**, No. 18, 1903, (36 pp., 2 pls.).

Dacqué, E. 2. Zur systematischen Speziesbestimmung. N. Jahrb. Min., Beilage, **22**, 1906, (639-685).

Dahlgren, B. E. The development of a mollusk. A guide to the series of models illustrating the development of *Crepidula*. Guide Leaflet No. **21** in Amer. Mus. J., New York, N.Y., **6**, 1906, (28-53, with text fig.).

Dall, W. [William] H. [Healey]. 1. Note on some forgotten mollusk-names. Nautilus, Boston, Mass., **19**, 1906, (104-105).

Dall, W. H. 2. Note on *Vitrina pfeifferi* Deshayes. Nautilus, Boston, Mass., **19**, 1906, (107-108).

Dall, W. H. 3. On a new Floridian *Calliostoma*. Nautilus, Boston, Mass., **19**, 1906, (131-132).

Dall, W. H. 4. Note on some names in the *Volutidae*. Nautilus, Boston, Mass., **19**, 1906, (143-144).

Dall, W. H. 5. Note on the genus *Glabaris* Gray or *Patularia* Swainson. Nautilus, Boston, Mass., **20**, 1906, (39-40).

Dall, W. H. 6. A new *Scala* from California. Nautilus, Boston, Mass., **20**, 1906, (44).

Dall, W. H. 7. Thomas Martyn and the "Universal Conchologist." Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **29**, 1906, (415-432).

Dall, W. H. 8. Early history of the generic name *Fusus*. J. Conch., Leeds, **11**, 1906, (289-297).

Dall, W. H. & Bartsch, Paul. Notes on Japanese, Indopacific and American *Pyramidellidae*. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, 1906, (321-369, with pl.).

Danford, C. G. 1. Notes on the Belemnites of the Speeton Clays. Hull, Trans. Geol. Soc., **6**, 1906, (1-14).

Danford, C. G. 2. Notes on the Speeton Ammonites. Yorks. Proc. Geol. Polyt. Soc., **16**, 1906, (101-114, pls.).

Danford, C. G. 3. Notes on the Speeton Ammonites. Naturalist London, **1906**, (330-331).

Dautzenberg, Ph. 1. Liste des coquilles marines d'Ambodifoutra (côte est de Sainte-Marie de Madagascar). J. conchyliol., Paris, **54**, 1906, (27-29).

Dautzenberg, Ph. 2. Sur l'identité du grand Cône du Pléistocène méditerranéen et du *C. testudinarius* Hwass. J. conchyliol., Paris, **54**, 1906, (30-32, av. fig.).

Dautzenberg, P. 3. F. P. Marrat. J. Conchyliol., Paris, **53**, 1906, (481-485).

Dautzenberg, P. 4. H. A. Madoulé. J. Conchyliol., Paris, **54**, 1906, (75).

Dautzenberg, P. vide Dollfus, G.

Dautzenberg, [Ph.] et Durouchoux. Supplément à la faunule malacologique des environs de Saint-Malo. Feuille jeunes natural., Paris, sér. 4, **36**, 1906, (39-45, 53-60, 73-77).

Dautzenberg, Ph. et Fischer, H. 1. Mollusques provenant des dragages effectués à l'ouest de l'Afrique pendant

les campagnes scientifiques de S. A. S. le Prince de Monaco. Monaco, Res. Camp. sci., **32**, 1906, (125, 5 pls.).

Dautzenberg, Ch. [Ph.] et Fischer, H. 2. Liste des Mollusques récoltés par M. H. Mausuy en Indo-Chine et au Yunnan et description d'espèces nouvelles. J. conchyliol., Paris, **53**, 1906, (343-471, av. fig.).

Davis, C. Abbott. 1. A numbered checklist of North American *Unionidae* with localities. Providence, R.I., Bull. Roger Williams Park Mus., No. **2**, 1904, (1 l. + 19 l., printed on one side only). 23 cm.

Davis, C. A. 2. The Unios of New England. Providence, R.I., Bull. Roger Williams Park Mus., No. **12**, 1905, (10 unnumb. pp.). 23 cm.

Dawkins, Clinton G. E. Discovery of *Exogyra sinuata* in the Lower Greensand of Culham, near Oxford. Geol. Mag., London, **3**, 1906, (94).

Dean, J. Davy. The shell beach at Mochras Island. J. Conch., Leeds, **11**, 1906, (297).

Degrange-Touzin. Le Falun de Saint-Denis, Ile d'Obéron (Charente-Inférieure). Bordeaux, Actes Soc. Linn., **61**, 1906, (17-22).

Delap, M. J. New localities for *Geomalacus maculosus*. Irish. Nat., Dublin, **15**, 1906, (190).

Delkeskamp, Rudolf. Beiträge zur Kenntnis der Westufer des Mainzer Tertiärbeckens. I. Der Kreuznacher mitteloligocäne Meeressand und seine Fauna. Bonn, Verh. nathist. Ver., **62**, 1906, (95-134).

Deperet, Charles vide Vidal, L. M.

Diener, C. [Carl]. 1. Die triadische Fauna des Tropiten Kalkes von Byans (Himalaya). Wien, SitzBer. Ak. Wiss., **114**, 1905, (331-342).

Diener, C. 2. Über einige Konvergenzerscheinungen bei triadischen Ammonoiten. Wien, SitzBer. Ak. Wiss., **114**, 1905, (663-687).

Diener, C. 3. Entwurf einer Systematik der Ceratitiden des Muschelkalkes. Wien, SitzBer. Ak. Wiss., **114**, 1905, (765-806).

Diener, C. 4. Beiträge zur Kenntnis der mittel- und obertriadischen Faunen von Spiti. Wien, SitzBer. Ak. Wiss., **115**, 1906, Abth. I, (757-778).

Diener, C. 5. Notes on some fossils from the *Halorites* Limestone of the Bambanag Cliff (Kumaon), collected by the late Dr. A. von Krafft in the year 1900. *Rec. Geol. Surv. Ind., Calcutta*, **34**, 1906, (1-11).

Diener, C. 6. Notes on an Upper-Triassic fauna from the Pishin District, Baluchistan, collected by E. Vredenburg in the year 1901. *Rec. Geol. Surv. Ind., Calcutta*, **34**, 1906, (12-21).

Dollfus, Gustave F. 1. Faune malacologique du miocène supérieur de Gourbesville (Manche). Étage Rédonien. Paris, C.-R. ass. franç. avanc. sci., **34**, 1906, (358-371).

Dollfus, G. F. 2. Bassin de Paris. Feuille de Bourges au 320,000^e (Revision des faunes continentales). *Bull. Carte géol. France*, **16**, 1906, (6-26).

Dollfus, G. F. 3. Karl Alfred von Zittel. *J. Conchyliol.*, Paris, **53**, 1906, (478-81).

Dollfus, G. F. & Dautzenberg, Ph. *Conchyliologie du Miocène moyen du Bassin de la Loire. Première partie, Pélécy-podes (suite)*. Paris, *Mem. Soc. géol.*, **14**, (163-240).

Dollfus, G. F. vide Giard, A., 2.

Donald [Longstaff], Jane. Notes on the genera *Omospira*, *Lophospira*, and *Turritoma*; with descriptions of new Proterozoic species. London, *Q. J. Geol. Soc.*, **62**, 1906, (552-572).

Doncieux, L. Note sur les terrains tertiaires et le quaternaire marin du sud-est du département de l'Aude. Carcassonne, *Bul. Soc. étud. Sci.*, **16**, 1906, (201-230).

Doumergue vide Fichet.

Dubois, Eug. La pluralité des périodes glaciaires dans les dépôts pleistocènes et pliocènes des Pays-Bas. Haarlem, *Arch. Mus. Teyler*, ser. 2, **10**, 1906, (163-79).

Duboscq, O. vide Léger, L.

Du Buysson, H. Destruction des Limaces. Feuille jeunes natural., Paris, **36**, 1906, (168).

Dumble, E. T. Age of Petroleum Deposits, Saratoga, Texas. *Science*, New York, **23**, 1906, (510-511).

Dun, W. S. vide Etheridge, R. & Dun.

Durouchoux vide Dautzenberg, P.

Dybowski, W. Beschreibung einer neuen Süßwasser-Schnecke, *Limnæa (Limnæus) lagorii* n. St. Petersburg, *Bull. Ac. Sc.*, ser. 5, **18**, 1903, (113-6).

Eliot, C. [Charles] N. [Norton] E. [Edgecombe]. 1. The Nudibranchiata of the Scottish National Antarctic Expedition. Edinburgh, *Trans. R. Soc.*, **41**, 1906, (519-532).

Eliot, C. N. E. 2. Report upon a collection of Nudibranchiata from the Cape Verd Islands, with notes by C. Crossland. London, *Proc. Malac. Soc.*, **7**, 1906, (131, pl. xiv).

Eliot, C. N. E. 3. On the Nudibranchs of Southern India and Ceylon, with special reference to the Drawings by Kelaart and the collections belonging to Alder and Hancock preserved in the Hancock Museum at Newcastle-on-Tyne. London, *Proc. Zool. Soc.*, **1906**, (636-91).

Eliot, C. N. E. 4. On the Nudibranchs of Southern India and Ceylon, with special reference to the Drawings by Kelaart and the Collections belonging to Alder and Hancock preserved in the Hancock Museum at Newcastle-on-Tyne. No. II. London, *Proc. Zool. Soc.*, **1906**, (999-1008).

Eliot, C. N. E. 5. Notes on some British Nudibranchs. Plymouth, *J. Mar. Biol. Ass.*, **7**, 1906, (333-382), pls.

Eliot, C. N. E. 6. Nudibranchs and Tectibranchs from the Indo-Pacific. II. Notes on *Lophocereus*, *Lobiger*, *Haminæa*, and *Neurnesia*. *J. Conch.*, Leeds, **11**, 1906, (298-315), 1 pl.

Eliot, C. N. E. 7. The genus *Doriopsilla*, Bergh. *J. Conch.*, Leeds, **11**, 1906, (366-367).

Etheridge, R. [Robert]. Preliminary Report on other fossils forwarded to me by the Government Geologist of South Australia. Northern Terr. of S. Austral., Report, 1906, (41-42).

Etheridge, R. & Dun, W. S. A. Monograph of the Carboniferous and Permo-Carboniferous Invertebrata of New South Wales. Vol. II. Pelecypoda. Part I. The Palæopectens. Sydney, *Mem. Geol. Surv. N. S. Wales, Pal.*, No. **5**, 1906, (39, 16 pls.).

Evans, William. *Milax (Amalia) gagates*, var. *rara*, in S.W. Perth. *Ann. Scot. Nat. Hist.*, Edinburgh, **1906**, (241).

Fabiani, Ramiro. I Molluschi eocenici del Monte Postale conservati nel museo di Geologia dell'Università di Padova. Padova, Atti. Ac. Ven.-Trent., N. Ser. **2**, 1905, (145-58).

Fabre-Domergue. Une invasion d'Algues méridionales (*Colpomenia simosa*) sur les Huitres de la rivière de Vannes. Paris, C.-R. Acad. sci., **142**, 1906, (1223-1225).

Fagot, P. Mollusca nova Provinciae Aragoniae. Zaragoza, Bol. Soc. Arag., **5**, 1906, (171-173).

Fagot, P. *vide* Caziot, E. & Fagot.

Faurot, L. Observations au sujet des Mollusques testacés recueillis par MM. Tillier et Bavay dans le canal de Suez. Paris, Bul. soc. zool., **31**, 1906, (42-45).

Ferriss, Ja[me]s H. Mollusks of Oklahoma. Nautilus, Boston, Mass., **20**, 1906, (16-17).

Ferriss, James H. *vide* Pilsbry, H. A. & Ferriss.

Ficheur & Doumergue. Sur l'existence du Crétacé dans les schistes d'Oran. Paris, C.-R. Acad. Sci., **142**, 1906, (1576-1579).

Fischer, H. [Henri]. **1.** C. E. von Martens. J. Conchyliol., Paris, **53**, 1906, (483-484).

Fischer, H. **2.** Ch. Schlumberger, J. Conchyliol., Paris, **54**, 1906, (75-76).

Fischer, Henri *vide* Dautzenberg, P. and Fischer.

Fischer, H. et Joubin, L. Notes sur les Céphalopodes capturés au cours des expéditions du "Travailleur" et du "Talisman." Bul. Muséum, Paris, **1906**, (202-205).

Fisher, Cassius A. Geology and Water Resources of the Bighorn Basin, Wyoming. Washington, Prof. Paprs. U. S. Geol. Surv., **53**, 1906 (ix + 72, 16 pls., chart).

Fluck, W. H. Shell-collecting on the Mosquito coast of Nicaragua—6. Nautilus, Boston, Mass., **20**, 1906, (1-4).

Fogerty, Harry. *Anodonta Cygnea* in Co. Clare. Irish Nat., Dublin, **15**, 1906, (189, 190, 235).

Franck. Ueber die näheren Umstände des Vorkommens der (!) gelben *Viriparus verus* v. Frf. bei Hamburg,

Bl. Aquarienkunde, Magdeburg, **17**, 1906, (298-299).

Franz, V[ictor]. *Physa acuta* Drap., in Deutschland eingebürgert. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (202-203).

Frech, F. **1.** Ueber die Ammoniten des von Herrn Dr. Renz bei Epidaurus entdeckten unteren alpinen Muschelkalkes. Centralbl. Min. Stuttgart, **1906**, (271-275).

Frech, Frigyes. **2.** A tengeri eredetű karbon Magyarországon. [Das marine Karbon in Ungarn.] Földt. Közl., Budapest, **36**, 1906, (1-50, 103-153), Taf. i-ix.

Frech, Fritz et Renz, Carl. Sur la répartition du Trias à facies océanique en Grèce. Paris, C.-R. acad. Sci., **143**, 1906, (523-525).

Freidenfelt, T. Über den feineren Bau des Visceralganglions von Anodonta. Lund, Univ. Årsskr., **40**, No. 5, 1905, (1-28, 4 pls.).

Friedberg, Wilhelm Salomon von. **1.** Eine sarmatische Fauna aus der Umgegend von Tarnobrzeg in Westgalizien. Wien, SitzBer. Ak. Wiss., **114**, 1905, (275-327).

Friedberg, Wilhelm. **2.** Das Miocäne Becken von Rzeszow, II Teil. Krakow, Bull. Intern. Acad., **1906**, (102-109).

Frierson, L. S. Some observations on the ova of *Unionidae*. Nautilus, Boston, Mass., **20**, 1906, (68-69).

Fritsch, K. von. Beitrag zur Kenntnis der Tierwelt des deutschen Trias. Halle, Abh. Natf. Ges., **24**, 1906, (217-283).

Fucini, Alberto. **1.** Sopra gli scisti lionati del Lias inf. dei dintorni di Spezia. Pisa, Atti Soc. tosc. sc. nat. (Mem.), **22**, 1906, (119-133).

Fucini, A. **2.** Sopra un' Ammonite emscheriana del Gargano. Pisa, Proc. verb. soc. tosc. sc. nat., **15**, 1906, (54-56).

Fulton, Hugh C. **1.** Note on *Bulimulus (Drymaeus) citrinellus*, Pfr., and *scitulus*, Reeve. Ann. Mag. Nat. Hist., London, **17**, 1906, (148).

Fulton, H. C. **2.** Descriptions of new Australian *Pupine* and *Pupinellæ*

with a note on *Pupina pineticola*, Cox. Ann. Mag. Nat. Hist., London, **17**, 1906, (243-246).

Fulton, H. C. 3. Description of a new species of *Unio* (*Cuncopsis*) from Yunnan. Ann. Mag. Nat. Hist., London, **17**, 1906, (246).

Fulton, H. C. 4. Descriptions of new species of *Pleurodonte* (*Caraculus*), *Planispira*, and *Kaliella*. Ann. Mag. Nat. Hist., London, **17**, 1906, (247-248).

Gallenstein, Hans V. Die Bivalven- und Gastropoden-Fauna Kärntens. II. Teil: Die Gastropoden Kärntens. II. Ordnung: Basommatophora. Klagenfurt, Jahrb. Nat. Hist. Ld. Mus. Kärnten, **27**, 1905, (129-78).

Gariseff, W. Système nerveux des Céphalopodes. Structure fibrillaire des cellules ganglionnaires chez l'*Octopus vulgaris*. Paris, C.-R. soc. biol., **61**, 1906, (201-202).

Gaskin, J. Calcott *vide* Melvill, J. C. & Standen.

Gatliff, J. H. On some Victorian marine Mollusca, new species, and others little-known. Melbourne, Proc. R. Soc. Vict., **19**, 1906, (1-4).

Gatliff, J. H. *vide* Pritchard, G. B. & Gatliff.

Gentil, I. *vide* Kilian, W. & Gentil.

Germain, Louis. 1. Contributions à la faune malacologique de l'Afrique équatoriale. Bul. Muséum, Paris **11**, 1905 [?], (483-489).

Germain, L. 2. Contributions à la faune malacologique de l'Afrique équatoriale. II. Mollusques recueillis par M. Lenfant dans le lac Tchad. Bul. Muséum, Paris, **1906**, (52-56).

Germain, L. 3. Contributions à la faune malacologique de l'Afrique équatoriale. III. Sur quelques Lamelli-branches du lac Tchad rapportés par M. le lieutenant Hardelet. Bul. Muséum, Paris, **1906**, (56-61).

Germain, L. 4. Contribution à la faune malacologique de l'Afrique équatoriale et sur les Mollusques recueillis par M. le capitaine Duperthuis dans la région du Kanem (lac Tchad). Bul. Muséum, Paris, **1906**, (166-175, 296-308, av. fig.).

Germain, L. 5. Contributions à la faune malacologique de l'Afrique équatoriale. Bul. Muséum, Paris, **12**, 1906, (577-585).

Germain, L. 6. Etudes sur quelques Mollusques terrestres et fluviatiles du massif armoricain. Nantes. Bul. soc. sci. nat., sér. 2, **6**, 1906, (1-68, av. fig.).

Germain, L. 7. Introduction à l'étude de la faune malacologique terrestre et fluviale du massif armoricain. Paris, C.-R. ass. franç. avanc. sci., **34**, (Cherbourg, 1905, 2^e Partie), 1906, (577-582).

Germain, L. 8. A propos du "*Petricola pholadiformis*" de Lamarck. Feuille jeunes natural., Paris, **37**, 1906, (37).

Germain, L. 9. Arnould Locard, sa vie, ses travaux. Lyon, Ann. soc. linn., **52**, 1906, (189-222), 1 pl.

Geyer, D. 1. Die Weichtiere des Schwarzwaldes. Aus d. Schwarzw., Stuttgart, **14**, 1906, (1-4, 21-24, 41-45).

Geyer, D. 2. Beiträge zur Vitrellen-fauna Württembergs III. (Zugleich eine Erwiderung.) Stuttgart, Jahreshefte Ver. Natk., **62**, 1906, (189-200).

Giaja, —. Sur la présence de l'émul-sine chez les animaux marins. Paris, C.-R. soc. Biol., **61**, 1906, (486-488).

Giaja *vide* Bierry and Giaja.

Giard, A. 1. Aclimatation de *Helix* (*Bulimus*) *acuta* Mueller dans le Pas-de-Calais. Feuille jeunes natural., Paris, sér. 4, **36**, 1906, [1905], (13). [Cf. les Observations analogues de Bouly de Lesdain, Godon, Lobeau, *Ibid.* p. 31].

Giard, A. 2. Sur la dispersion vers le Nord d'*Helix limbata* Draparnaud. Feuille jeunes natural., Paris, sér. 4, **36**, 1906, (45).—**Dollfus.** Note additionnelle, *Ibid.*, (45).

Giard, A. 3. *Helix* introduits dans les départements du Nord et du Pas-de-Calais. Feuille jeunes natural., Paris, sér. 4, **36**, (61-62).

Glaser, O. C. Correlation in the development of *Fasciolaria*. Woods Holl. Mass., Mar. Biol. Lab. Bull., **10**, 1906, (139-164, with text fig.).

Glover, Maria. Notes on the British land and freshwater shells collected by the late Mr. Thomas Glover. *J. Conch.*, Leeds, **11**, 1906, (368-372).

Godfrey, Robert. Land shells in Orkney. *Ann. Scot. Nat. Hist.*, Edinburgh, **1906**, (55).

Godon, J. *Cochlicella barbara*. Feuille jeunes *Natural.*, Paris, **37**, 1906, (37).

Godon, J., *vide* **Giard, A.** **1**; *vide* **Lesdain, B. de**, **Godon** and **Labeau**.

Godwin-Austen, H. [Henry] H. [Haversham]. On a species of the land Molluscan genus *Dyakia* from Siam. London, *Proc. Malac. Soc.*, **7**, 1906, (93-96, pl. x.).

Gompel, M. & Henri, Victor. Étude de la sécrétion urinaire chez le Poulpe. Paris, *C.-R. soc. biol.*, **60**, 1906, (886-887).

Govjanovic-Kramberger, D. Die pontische Fauna von Glogovnica-Osijek bei Krizeveci in Kroatien im Vergleich zu jener von Radmanest. *Glasnik Naravosl. Drust.*, **15**, 1904, (153-156).

Gorka, Sándor. A csigák kannibálizmusa. [Über den Kannibalismus bei Schnecken.] *Termt. Köz.*, Budapest, **38**, 1906, (230-232, mit 4 Fig.).

Gortani, Michele. **1.** La fauna Permo-carbonifera del col Mezzodì presso Forni Avoltri. *Paleontogr. Italica*, Pisa, **12**, 1906, (1-84).

Gortani, M. **2.** La fauna degli strati a *Bellerophon* della Carnia. *Riv. Ital. paleont.*, Perugia, **12**, 1906, (93-131).

Gortani, M. *vide* **Vinassa de Regny, P.** & **Gortani**.

Gosch, C. A. Christian Hee Ilwass, 1731-1803. *J. Conch.*, Leeds, **11**, 1906, (331-332).

Grabau, Amadeus W. Guide to the Geology and Paleontology of the Schoharie Valley in Eastern New York. Albany, N.Y., *St. Educ. Dept.*, Bull., **92**, 1906, (386).

Gratacap, L. [Louis] P. [Pope]. A note upon the insufficiency of the operculum as a basis of classification in round-mouthed shells. *Nautilus*, Boston, Mass., **20**, 1906, (91-94).

Greene, George K. Contribution to Indiana palaeontology. Part I. Volume 2. New Albany, Ind., 1906, (1-17 + 3 l., with pl., text fig.). 23.5 cm.

Gude, G. [Gerard] K. [Kalshoven]. **1.** Critical remarks on certain forms of *Chloritis*, with descriptions of twelve new species. London, *Proc. Malac. Soc.*, **7**, 1906, (40-50), pls. iv-v.

Gude, G. K. **2.** Further remarks on the genus *Chloritis*, with descriptions of eleven new species. London, *Proc. Malac. Soc.*, **7**, 1906, (105-118, pl. xiii).

Gude, G. K. **3.** On the Land Molluscan genus *Coelorus*, Pilsbry. *Ann. Mag. Nat. Hist.*, London, **18**, 1906, (433-435).

Guérin, Joseph. **1.** Note préliminaire sur les gisements de Mollusques comestibles des côtes de France. Première Note: Les côtes de la Charente-Inférieure. Paris, *C.-R. ass. franç. avanc. sci.*, **33**, (Grenoble, 1904, 2^e Partie), 1905, (825-852).

Guérin, Joseph. **2.** Note préliminaire sur les gisements coquilliers des côtes de la Charente-Inférieure. Paris, *Bull. Ass. franç. avanc. sci.*, **1904**, (263-264).

Gussmann, —. Hamiten von Eningen. Stuttgart, *Jahreshefte Ver. Natk.*, **62**, 1906, (ex).

Halle, Thore G. En fossilförande Kalktuff vid Botarfue i Fräjäls socken på Gotland. Stockholm, *Geol. För. Förh.*, **28**, 1906, (19-54).

Haller, B[é]la. Ueber das Nephrogonocölom von *Fissurella*, *Nacella* und *Chiton*. *Jenaische Zs. Natw.*, **41**, 1906, (159-184, mit 2 Taf.).

Harbort, E. Die Fauna der Schaumburg-Lippe'schen Kreidemulde. Berlin, *Abh. Geol. Landesanst.*, **45**, 1905, (1-112).

Haug, Émile. Nouvelles données paléontologiques sur le Dévonien de l'Ahenet occidental. Paris, *C.-R. Acad. Sci.*, **142**, 1906, (732-734).

Headlee, Thomas J. Ecological notes on the mussels of Winona, Pike, and Center lakes of Kosciusko county, Indiana. [Contribution from the Zoological Laboratory of Indiana University, No. 75]. *Biol. Bull.*, Woods Holl, Mass., **11**, 1906, (305-318, with pl., text fig.).

Hedley, C. [Charles]. **1.** Studies on Australian Mollusca. IX. Sydney, N.S.W. *Proc. Linn. Soc.*, **30**, 1906, (520-546), 3 pls.

Hedley, C. 2. The Mollusca of Mast Head Reef, Capricorn Group, Queensland, I. Sydney, N.S.W. Proc. Linn. Soc., **31**, 1906, (453-479, 3 pls.).

Hedley, C. 3. [Mollusca of Masthead Reef, Queensland.] Zool. Anz., Leipzig, **30**, 1906, (862-863).

Hedley, C. 4. Results of Dredging on the Continental Shelf of New Zealand. Wellington, Trans. Proc. N. Zeal. Inst., **38**, 1906, (68-76).

Hedley, C. 5. A Pteropod Alias. London, Proc. Malac. Soc., **7**, 1906, (5).

Hedley, C. and Petterd, F. W. Mollusca from three hundred fathoms off Sydney. Sydney, N.S.W., Rec. Austr. Mus., **6**, 1906, (211-225, with 2 pls.).

Henri, Victor *vide* Gompel, M. and Henri.

Herrick, J[oseph] C[awdell]. Mechanism of the odontophoral apparatus in *Sycotypus canaliculatus*. Amer. Nat., Boston, Mass., **40**, 1906, (707-737, with text fig.).

Heynemann, D. F. Die geographische Verbreitung der Nacktschnecken. Eine zusammenfassende kritische Darstellung unserer Kenntnisse derselben zu Anfang des 20. Jahrhunderts. Frankfurt a. M., Abh. Senckenb. Ges., **30**, 1906, (1-92, mit 2 Taf.).

Hilbert, Richard. Zur Kenntnis der preussischen Molluskenfauna. Königsberg, Schr. physik. Ges., **46** (1905), 1906, (44-49, mit 1 Taf.).

Hind, Wheelton. 1. Note on the characters of the Hinge Plate in *Ariculopecten semicostatus*, Portlock, sp. Geol. Mag., London, **3**, 1906, (59).

Hind, W. 2. Fossil Molluscan Zones in the Carboniferous Rocks of the Midlands. Naturalist, London, **1906**, (253-256, 2 pls.).

Hinkley, A. A. Some shells of Mississippi and Alabama. Nautilus, Boston, Mass., **20**, 1906, (34-36, 40-44, 52-55).

Hoernes, Rudolf. 1. Untersuchung der jüngeren Tertiärlagerungen des westlichen Mittelmeergebietes. Wien, SitzBer. Ak. Wiss., **114**, 1905, (637-660, 737-763).

Hoernes, R. 2. *Melongena Deschmanni* nov. form. aus den aquitanischen

Schichten von Moräutsch in Oberkrain, nebst Bemerkungen über die geographische Verbreitung der lebenden Melongenidae. Wien, SitzBer. Ak. Wiss., **115**, 1906, Abth. I, (1521-1547, mit 1 Taf.).

Holzfuss, E. *Planorbis corneus* L., ein Doppelatmer. Natur. u. Haus, Dresden, **14**, 1906, (234-236).

Honigmann, Hans. 1. Beitrag zur Molluskenfauna von Bernburg A.S. Magdeburg, Abh. und Ber. Mus., **1**, 1906, (188-195).

Honigmann, H. 2. Ueber *Cantareus* s. *Tapada apertus* Born im Terrarium. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (44-45).

Honigmann, H. 3. *Limnaea (Gulnaria) orata* Drap. var. *Köhleri*, var. nova. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (45-46).

Honigmann, H. 4. Beiträge zur Kenntnis des Albinismus bei Schnecken II. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (200-202).

Hornell, James. 1. Report on the *Placuna placenta* Pearl Fishery of Lake Tampalakamam. Repts. Ceylon, Marine Biol. Lab., **1**, 1906, (41-54).

Hornell, J. 2. Report on the operations on the Pearl Banks during the Fishery of 1905. Repts. Ceylon Marine Biol. Lab., **1**, 1906 (55-80).

Hornstein, Ferd. Friedr. Neues von Kasseler Tertiär. Berlin, Zs. D. geol. Ges., **58**, 1906. (Mt. 113-118).

Hovey, E. O. *vide* Whitfield, R. P. & Hovey.

Hoyle, W. E. Biscayan Plankton. Part VIII. The Cephalopoda. London, Trans. Linn. Soc., **10**, 1906, (159-162).

Hoyle, W. E. *vide* Ashworth, J. H. & Hoyle.

Hutton, F. W. On *Crassatellites trailli*. Wellington, Trans. Proc. N. Zeal. Inst., **38**, 1906 (65-66).

Hutton, Captain F. W. Obituary. London, Proc. Malac. Soc., **7**, 1906, (66-67).

Hwass, Christian Hee *vide* Gosch, C. A.

Icke, H. und Martin, K[arl]. Die Silatgruppe, Brack- und Süßwasser-Bildungen der Oberen Kreide von

Borneo. Leiden, Samml. Geol. Reichsmus., Ser. 1, **8**, 1906, (106-144, mit 2 Taf.).

Ihering, H. von. **1**. Nuevas observaciones sobre moluscos cretáceos y terciarios de Patagonia. Rev. Mus. La Plata, **11**, 1901, (230-41).

Ihering, H. von. **2**. Zur Regulierung der malacologischen Nomenclatur. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (1-12).

Jackson, J. Wilfrid. **1**. An attempt to breed from a sinistral *Helix pomatia*, with notes on the reproduction of the dart. J. Conch., Leeds, **11**, 1906, (341-345).

Jackson, J. W. **2**. The occurrence of the white form of *Helicigona lapideida* (L.). J. Conch., Leeds, **11**, 1906, (315).

Jackson, J. W. **3**. *Vertigo alpestris* in Westmorland. J. Conch., Leeds, **11**, 1906, (359).

Jackson, J. W. **4**. Further notes on French shell names. J. Conch., Leeds, **11**, 1906, (359).

Jackson, J. W. **5**. *Acanthinula lamellata* (Jeff.) at Grange-over-Sands, Lancs., and notes on various other species. J. Conch., Leeds, **11**, 1906, (361).

Jackson, J. W. **6**. *Bulimus fasciatus* Turton [= *Helicella barbara* (L.)] in Lancashire. J. Conch., Leeds, **11**, 1906, (367).

Janensch, W. Ueber die Jugendentwicklung von *Rhabdoceas suessi* v. Hauer. Centralbl. Min., Stuttgart, **1906**, (710-716).

Jeannel, B. Contribution à l'étude de la faune de la grotte à Camon (Basses-Pyrénées). Paris, Bul. Soc. ent., **1905**, (158-160).

Jenkins, O. [Oliver] P. [Peebles] & Carlson, A. [Anton] J. [Julius]. Physiological evidence of the fluidity of the conducting substance in the pedal nerves of the slug *Ariolimax columbianus*. J. Comp. Neur., Granville, Ohio, **14**, 1904, (85-92).

Jennings, F. B. *Helicella virgata* var. *hypozona* in the Isle of Wight. J. Conch., Leeds, **11**, 1906, (332).

Jensen, Adolf Severin. **1**. On the Fossil quaternary Mollusc-Fauna of

Greenland. Copenhagen, Medd. Grönl., **29**, 1905, [separate] (289-305).

Jensen, A. S. **2**. On the Mollusca of East Greenland. I. Lamellibranchiata. Copenhagen, Medd. Grönl., **29**, 1905, [separate] (306-62).

Johnson, C. [Charles] W. [Willison]. **1**. On the habits of *Praticolella jejuna*. Nautilus, Boston, Mass., **20**, 1906, (46).

Johnson, C. W. **2**. On the distribution of *Helix hortensis* Mueller, in North America. Nautilus, Boston, Mass., **20**, 1906, (73-80).

Johnson, C. W. **3**. Additional localities for *Helix hortensis*. Nautilus, Boston, Mass., **20**, 1906, (95-96).

Joly, Henry. Note sur deux *Caloceras* du Tœrcien: *Caloceras subarmatum*, D'Orbigny, 1842, et *Caloceras desplacei*, D'Orbigny, 1842. Nancy, Bul. Soc. sci., **6**, 1905, (1-11).

Jordan, Hermann. **1**. The physiology of locomotion in gasteropods. A reply to A. J. Carlson. Woods Holl. Mass., Mar. Biol. Lab., Bull., **9**, 1904, (138-140, with text fig.).

Jordan, H. **2**. Die Leistungen des Zentralnervensystems bei den Schnecken. Biol. Centralbl., Leipzig, **26**, 1906, (124-128, 143-158).

Joubin, Louis vide Fischer, H. & Joubin.

Joukowsky, E. **1**. Sur quelques affleurements nouveaux de roches tertiaires dans l'Isthme de Panama. Genève, Mém. Soc. Phys., **35**, 1906, Oct., (155-78).

Joukowsky, E. **2**. Sur une mollasse à Turrilletes et une couche lignitifère à Congeries de la presqu'île d'Azuero (Panama). Paris, C.-R. Acad. Sci., **142**, 1906, (964-966).

Jukes-Browne, A. J. *Tapes aureus* and its allies. J. Conch., Leeds, **11**, 1906, (275-281).

K., O. N. Second Contribution to the knowledge of the Diluvial Mollusca Fauna of Otake, Shimosa Province. Tokyo, J. Geol. Soc., **12**, 1905, (421-422).

Kammerer, Paul [u. Andere]. Regenerieren Schnecken verloren gegangene Fühler? Bl. Aquarienkunde. Magdeburg, **17**, 1906, (100).

Karpinsky, A. Ueber die cocambrische Cephalopodengattung *Volbor-thella* Schmidt. St. Petersburg, Verh. Russ. mineral. Ges., **41**, 1904, (31-42).

Kelsey, F. W. A healthy colony of *Epiphyragmophora tudieulata*. Nautilus, Boston, Mass., **20**, 1906, (61, with pl.).

Kennard, A. S. [Santer] & **Woodward, B.** [Bernard] B. [Barham]. On sections of the Holocene Alluvium of the Thames at Staines and Wargrave. London, Proc. Geol. Ass., **19**, 1906, (252-258).

Kennard, A. S. & Woodward, B. B. 2. On the occurrence of *Vertigo parcedentata*, Al. Braun, in Holocene Deposits in Great Britain. London, Proc. Malac. Soc., **7**, 1906, (119-120).

Kenyon, A. [gnes] F[leming]. 1. On *Voluta papillosa* Swainson, var. London, Proc. Malac. Soc., **7**, 1906, (6).

Kenyon, A. F. 2. On *Conus Waterhousea* Brazier, var. London, Proc. Malac. Soc., **7**, 1906, (506).

Kesteven, H. Leighton. [Rissoa.] Zool. Anz., Leipzig, **30**, 1906, (823).

Kew, H. [Harry] Wallis. *Limax tenellus* in Buckinghamshire. J. Conch., Leeds, **11**, 1906, (318).

Kilian, W. [ilfrid]. Sur une faune d'Ammonites néocrétacée recueillie par l'expédition antarctique suédoise. Paris, C.-R. Acad. sci., **142**, 1906, (306-308, 420).

Kilian, W. et Gentil, L. Découverte de deux horizons crétacés remarquables du Maroc. Paris, C.-R. Acad. Sci., **142**, 1906, (603-605).

Knight, G. A. Frank. A Molluscan Visit to some of the Inner Hebrides (Islay, Coll, Tiree, and Iona). Perth, Trans. Soc. Nat. Sci., **4**, 1906, (135-161).

Knipowitsch, N. 1. Ueber die post pliocänen Meeres-Mollusken auf der Insel Kolgujew. St. Petersburg, Verh. Russ. mineral. Ges., **41**, 1904, (171-186).

Knipowitsch, N. 2. Neue Fundorte von Meeres-Mollusken und Balaniden in den Ablagerungen der borealen Transgression. St. Petersburg, Verh. Russ. mineral. Ges., **41**, 1904, (187-195).

Knipowitsch, N. 3. Ueber das Vorkommen von *Mytilus edulis* L. in tiefen Theilen des Weissen Meeres. St.

Peterburg, Verh. Russ. mineral. Ges., **43**, 1905, (271-277).

Kobelt, W. [ilhelm]. 1. [Bericht über die wissenschaftl. Leistungen im Gebiete der] Mollusca für 1901-1904. Geographische Verbreitung, Systematik und Biologie. Arch. Natg., Berlin, **65**, Bd 2, H. 1, **1899** [1906], (79-264).

Kobelt, W. 2. Synopsis der Pneu-monopomen-Familie *Realiidae*. Wiesbaden, Jahrb. Ver. Natk., **59**, 1906, (47-144).

Kobelt, W. 3. Die westeuropäischen *Vivipara*-Arten. Wochenschr. Aquarienkunde, Braunschweig, **3**, 1906, (428-431, 551-553).

Kobelt, W. 4. Eine neue *Levantina* [*L. chanzirensis*]. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (15-16).

Kobelt, W. 5. Zwei neue *Murella*-arten. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (204-205).

Kobelt, W. 6. Emil Adolf Rossmässler. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (57-64); Bl. Aquarienkunde, Magdeburg, **17**, 1906, (81-84).

Kobelt, Wilhelm *vide* Martini & Chemnitz; *vide* Möllendorf, O. F. von; *vide* Rossmässler, E. A.

Koch, Antal. Az erdélyi részek másodkori képződményei. [The Secondary Formations of Transylvania]. Ertes. Erdel. Muz., Jahrg., **30**, Bd. **20**, Sekt. 2, 1905, (90-149).

Köhler, [Walther]. 1. Regenerieren Süßwasserschnecken verloren gegangene Fühler? Bl. Aquarienkunde, Magdeburg, **17**, 1906, (49).

Köhler, W. 2. [Albinoerzeugung bei Süßwasserschnecken.] Bl. Aquarienkunde, Magdeburg, **17**, 1906, (70).

Köhler, W. 3. Die rote Posthornschnecke—kein Albino. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (216-217, 230-231).

Koltzoff, N. K. Über das Skelett des tierischen Spermiums. Biol. Centralbl., Berlin, **26**, 1906, (854-863).

Kormos, Theodor. 1. Zur Aufzählung der im Balaton See und seiner Umgebung lebenden Mollusken (mit besonderer Berücksichtigung der Fauna

von Balaton-Ederics). Result. wiss. Erforsch. Balatonsees, **2**, pt. 1, suppl., Wien (E. Hölzel) 1906, (1-16).

Kormos, Th. 2. Über die diluvialen Neritinen der Umgebung des Balatonsees. Földt. Közl., Budapest, **36**, 1906, (295-296).

Kormos, Th. 3. Beiträge zur Molluskenfauna des kroatischen Karstes. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (73-84, 140-154).

Kossmat, Franz. Bemerkungen über die Ammoniten aus den Asphaltschiefern der Bara-Bai (Burn). N. Jahrb. Min., Stuttgart, Beilage **22**, 1906, (686-691).

Krumbeck, Lothar. Beiträge zur Geologie und Palaeontologie von Tripolis. Palaeontographica, Stuttgart, **53**, 1906, (51-136, pls. vii-ix).

Kupelwieser, Hans. Versuche über Entwicklungserregung und Membranbildung bei Seeigeleiern durch Molluskensperma. Biol. Centralbl., Berlin, **26**, 1906, (744-8).

Kupka, P. *Xerophila erieetorum* Müll. bei Stendal. Magdeburg, Abh. & Ber. Mus., **1**, 1906, (187-188).

Kurtz, L. vide Roth, S., Kurtz & Burckhardt.

Labeau, A. vide Lesdain, B. de, Godon & Labeau.

Lafay, G. *Belgrandia lafayi* n. sp. Mâcon, Bul. soc. hist. nat., **2**, 1906, (217).

Lamansky, W. Die ältesten Silurischen Schichten Russlands (Etage B). St. Petersburg, Mém. Com. géolog., N. Ser., **20**, 1905, (1-203).

Lambert, J. vide Boule, M.

Lamy, Édouard. 1. Gastropodes presobranchez recueillis par l'expédition antarctique française du Dr. Charcot. Bul. Muséum, Paris, **11**, 1905 [?], (475-483).

Lamy, É. 2. Lamellibranches recueillis par l'expédition antarctique française du Dr. Charcot. Bul. Muséum, Paris, **1906**, (44-52, av. fig.).

Lamy, É. 3. Sur quelques Mollusques des Orcades du Sud. Bul. Muséum, Paris, **1906**, (121-126).

Lamy, É. 4. Liste des Lamellibranches recueillis par M. L. G. Seurat aux îles Tuamotu et Gambier (1902-
(x-9720 r)

1905). Bul. Muséum, Paris, **1906**, (205-215, 308-319, av. fig.).

Lamy, É. 5. Sur quelques Arches actuelles nommées par Lamarck dans la collection DeFrance. J. Conchyliol., Paris, **53**, 1906, (302-309, av. fig.).

Lamy, É. 6. Jules Mabille. J. Conchyliol., Paris, **53**, 1906, (482-483).

Lang, Arnold. Über die Mendelschen Gesetze, Art- und Varietätenbildung, Mutation und Variation, insbesondere bei unsern Hain- und Gartenschnecken. Verh. Schweiz. Natf. Ges., Aarau, **88**, 1906, (209-254).

Lankester, E. Ray. A Treatise on Zoology. Part V, Mollusca, by Paul Pelseeneer. London (Adam & Charles Black), 1906, (355). 8vo.

Latchford, F. R. *Lymnaea megasoma*. Nautilus, Boston, Mass., **20**, 1906, (83).

Latter, Oswald A. *Testaeella halio-tidea* at Godalming. J. Conch., Leeds, **11**, 1906, (365).

Lauterborn, Robert. 1. Demonstration aus der Fauna des Oberrheins und seinen Umgebung. Ver. D. Zool. Ges., Leipzig, **16**, 1906, (265-269).

Lauterborn, R. 2. Zur Geschichte des ["Pollichia"] Vereines. Dürkheim, Mitt. Pollichia, **60**, No. 19, 1904, (10-130).

Lebour, M. V. On variation in the Radulae of certain *Buccinidae*. J. Conch., Leeds, **11**, 1906, (282-286, 1 pl.).

Legendre, R. 1. Quelques détails de structure des cellules nerveuses d'*Helix pomatia*. C.-R. Ass. anat., 8^e session (Bordeaux), **1906**, (85-89).

Legendre, R. 2. Sur les modifications des cellules nerveuses d'*Helix pomatia* pendant l'asphyxie par immersion. Paris, C.-R. soc. biol., **60**, 1906, (388-389).

Legendre, R. 3. Sur un nouveau détail de la structure des cellules nerveuses d'*Helix pomatia*. Paris, C.-R. soc. biol., **60**, 1906, (488-490).

Legendre, R. 4. A propos du centrosome des cellules nerveuses. Paris, C.-R. soc. biol., **60**, 1906, (490-491).

Legendre, R. 5. Sur la présence de neurofibrilles dans les cellules nerveuses d'*Helix pomatia*. Paris, C.-R. soc. biol., **61**, 1906, (19-21).

Léger, Louis. Un nouveau *Nemato-opsis* parasite des Moules de la Méditerranée. Paris, Bull. Ass. franç. avanc. sci., **1905**, (331).

Léger, [Louis] & Duboscq, O. 1. Sur l'évolution des Grégarines gymnosporées des Crustacés. Paris, C.-R. Acad. sci., **142**, 1906, (1225-1227).

Léger, [Louis] & Duboscq, O. 2. L'évolution d'une *Aggregata* de la Seiche chez le *Portunus depurator* Leach. Paris, C.-R. soc. biol., **60**, 1906, (1001-1003).

Leicester, Alfred *vide* Standen, R.

Lemoine, Paul. Le jurassique d'Analalava (Madagascar). Paris, Bul. Soc. geol., **5**, 1905, (578-580).

Lemoine, Paul *vide* Boule, M.

Lenz. Pteropoden. In: Nordisches Plankton. Lfg 5. Kiel u. Leipzig (Lipsius & Tischer), 1906, (iv 1-iv 8).

Leriche, Maurice. 1. Note sur le genre *Vasseuria* Munier-Chalmas. Nantes Bul. Soc. sci. nat., **6**, 1906, (185-187).

Leriche, M. 2. Sur l'extension des grès à *Nummulites lorigatus* dans le nord de la France et sur les relations des Bassins Parisien et Belge à l'époque lutétienne. Paris, C.-R. ass. franç. avanc. sci., **34**, 1906, (392-402).

Le Roi, Otto. Die Verbreitung von *Amalia marginata* Drp. in Westdeutschland. Münster, Jahresber. Prov. Ver. Wiss., **34** (1905-06), 1906, (40-41).

Lesdain, Bouly de. *Petricola pholadiformis*. Feuille jeunes natural., Paris, **37**, 1906, (20).

Lesdain, B. de, Godon, J., Labeau, A. Presence de l'*Helix acuta* dans le nord. Feuille jeunes natural., Paris, **36**, 1906, (31).

Lilleskare, John. 1. Undersøgelser efter agnskjel i Nordmøre. [Investigations on shell-fish as bait in Nordmøre (Norway).] Bergen, Norsk Fisket., **25**, 1906, (145-150, pls.).

Lilleskare, J. 2. Agnskælfisket 1905-06. [Die Ködermuschel-Fischerei in Norwegen 1905-06.] Bergen, Norsk Fisket., **25**, 1906, (318-320).

Lillie, Ralph S. The action of salt solutions on the ciliated epithelium of *Mytilus edulis*. Amer. J. Physiol. Boston, Mass., **17**, 1906, (89-141).

Lindahl, Josua. Orthography of names of the Naiades. Cincinnati, Ohio, J. Soc. Nat. Hist., **20**, 1906, (235-243).

Lindholm, W. A. 1. Einige Bemerkungen über die Systematik der *Valvatidae*. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (187-193).

Lindholm, W. A. 2. Beiträge zur Molluskenfauna von Littauen. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (193-196).

Lissajous, —. Toarcien des environs de Macon. Macon, 1906 (Reprinted with corrections from Macon, Bul. soc. sci. nat., **2**, 1902-6).

Lobeau *vide* Giard, A. **1.**

Locard, Arnould *vide* Germain, L.

Łomnicki, A. M. Wiadomość tymczasowa o prasarmackiej faunie w miocene lwowskim. (Note préliminaire sur la faune prasarmatique de miocène à Léopol. [Lemberg].) Kosmos, Lwow., **31**, 1906, (257-263).

Longstaff, Jane *vide* Donald, J.

Loyez, Marie. Recherches sur le développement ovarien des œufs méroblastiques à vitellus nutritif abondant. Arch. anat. microsc., Paris, **8**, 1906, (239-297).

Łoziński, Paweł. 1. O budowie histologicznej serca u małży. [Über den histologischen Bau des Lamellibranchienherzens.] Kraków, Bull. Intern. Acad., **1906**, (48-62).

Łoziński, P. 2. O budowie histologicznej serca małży. [Sur la structure histologique du coeur des Lamellibranches.] Kraków, Rozpr. Akad., **46 B**, 1906, (55-64), 1 tabl.

Lucas, B. R. On the Danger of using Mercuric Chloride in the sterilization of highly-polished shells. J. Conch., Leeds, **11**, 1906, (365).

Mabille, Jules *vide* Lamy. **6.**

McFarland, F. [Frank] M. [Mace]. Opisthobranchiate Mollusca from Monterey bay, California, and vicinity. Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (1905), 1906, (1 l. + 109-151, with pl., partly col.).

Macnair, Peter. The Geology of the Rouken Glen and its neighbourhood. Glasgow, Trans. Geol. Soc., **12**, 1906, (362-397).

Madoulé, H. A. *vide* Dautzenberg, P. 4.

Madsen, Victor. Om den glaciële, isdæmmede So ved Stenstrup paa Fyn samt om Dannelsen af Feglversleret i Stenstrup-Egnen. Kiøbenhavn, Danm. Geol. Unders., **3, 14**, 1903, (1-88).

Malard, A. E. Les méthodes statistiques appliquées à l'étude des variations des coquilles turbinées (Buccins). Bul. Muséum, Paris, **12**, 1906, (321-329).

Marceau, F. 1. Recherches sur la structure des muscles du manteau des Céphalopodes et rapport avec leur mode de contraction. Arcachon, Trav. Soc. sci. station biol., **8**, 1905, [1906], (48-65, av. fig.).

Marceau, F. 2. Sur l'état des muscles adducteurs pendant la vie chez les Mollusques Acéphales. Paris, C.-R. Acad. sci., **142**, 1906, (1291-1296).

Marceau, F. 3. Le mouvement de bascule des valves de certains Acéphales pendant leur ouverture et leur fermeture et ses conséquences morphologiques. Paris, C.-R. Acad. sci., **143**, 1906, (303-305).

Marceau, F. 4. Étude comparative des rapports de la durée du temps perdu avec les charges à soulever dans les muscles des Mollusques et dans ceux des mammifères. Paris, C.-R. Soc. biol., **60**, 1906, (501-502).

Marceau, F. 5. Recherches sur la structure du cœur chez les Mollusques. Paris, Arch. anat. microsc., **7**, 1904, (195-588, av. 7 pl.).

Marcet, Adeodato. Una excursion a Orillas del Ebro. Zaragoza, Bol. Soc. Arag., **5**, 1906, (137-140).

Marchand, Werner. Beitrag zur vergleichenden Anatomie des männlichen Geschlechtsapparates der Cephalopoden. Zool. Anz., Leipzig, **29**, 1906, (753-758).

Margier, E. Sur la *Pupa anglica*, type de la faune dite Lusitanienne. Feuille jeunes natural., Paris, sér. 4, **35**, 1905, (68-70, av. fig.).

Mariani, Ernest. Alcune osservazioni geologiche sui dintorni di Bagolino nella valle del Caffaro. Milano, Rend. Ist. lomb., **39**, 1906, (646-653).

Marrat, F. P. *vide* Dautzenberg, P. 3.

Martel, H. Coquilles marines de Cancale. Iconographie et critique de quelques petites espèces. Feuille jeunes (N-9720 r)

natural., Paris, (sér. 4), **36**, 1906, (105-108); Rennes, Bul. soc. sci. méd., **14**, 1905, (326-332, av. fig.).

Martelli, Alessandro. 1. Contributo al Muschelkalk superiore del Montenegro. Paleontogr. Italica, Pisa, **12**, 1906, (97-151).

Martelli, A. 2. Nuovi studi sul Mesozoico montenegrino. Roma, Rend. acc. Lincei, **15**, 1906, (176-180).

Martens, E[duard] von (†). Das Sammeln und Konservieren von Land- und Süßwassermollusken. Mit Zusätzen von L[udwig] Plate. In: Anleitung zu wiss. Beobachtungen auf Reisen. 3. Aufl. Bd 2. Hannover (M. Jänecke), 1906, (641-649).

Martens, C. E. von *vide* Fischer, H. 1.

Martin, K. [Karl]. Die Fossilien von Java auf grund einer Sammlung von Dr. R. D. M. Verbeek. [Contd.] Leiden, Samml. Geol. Reichsmus., ser. 2, **1**, 1906, (281-333, pl. xlii-xlv).

Martin, K. *vide* Icke, H.

Martini und Chemnitz. Systematisches Conchylien-Cabinet . . . neu hrsg. u. vervollständigt v. H. C. Küster, nach dessen Tode fortgesetzt v. W[ilhelm] Kobelt. Lfg 206-208 = Bd 1, H. 199-201 (S. 97-140, mit 5 Taf., 241-256, mit 6 Taf.; 257-272, mit 6 Taf.). Lfg 509-510 = Bd 11, H. 27-28 (S. 1-82, mit 14 Taf.); Lfg 511-514 = Bd 1, H. 202-205 (S. 273-308, mit 6 Taf.; 145-211, mit 7 Taf.; 149-488, mit 6 Taf.; 97-128, mit 6 Taf.). Nürnberg (Bauer & Raspe), 1906. 30 cm. Die Lfg 9 M. Auch in Sektionen zu 18-27 M.

Martyn, Thomas *vide* Dall, W. H.

Maury, E. et Caziot, E. [Eugene] 1. Étude géologique de la presqu'île St.-Jean (Alpes Maritimes). Paris, Bul. Soc. Geol., **5**, 1905, (582-592).

Maury, E. et Caziot, E. 2. Mollusques fossiles terrestres des gisements post-pliocènes de la côte des Alpes Maritimes. Paris, Bul. Soc. geol., **5**, 1906, (593-603).

Mayer, André. Étude sur les éliminations provoquées chez le poulpe (*Octopus vulgaris*). Paris, C.-R. Soc. Biol., **60**, 1906, (959-961).

Mayer, A. et Rathery, F. Histologie du rein du Poulpe (*Octopus vulgaris*) à

l'état normal et au cours des éliminations provoquées. Paris, C.-R. soc. biol., **60**, 1906, (1121-1123).

Mayfield, A. Contributions towards a list of West Suffolk non-marine Mollusca. J. Conch., Leeds, **11**, 1906, (333-340).

Meisenheimer, Johannes. 1. Die Pteropoden der deutschen Südpolar-Expedition 1901-1903. (Deutsche Südpolar-Expedition 1901-1903, Bd **9**, H. 2.) Berlin (G. Reimer), 1906, (92-153, mit. 3 Taf.).

Meisenheimer, J. 2. Zur Biologie und Physiologie des Begattungsvorganges und der Eiablage von *Helix pomatia*. Verh. D. zool. Ges., Leipzig, **16**, 1906, (51-61).

Melville, J. [James] Cosmo. 1. A revision of the species of *Cyclotrematidae* and *Liotiidae* occurring in the Persian Gulf and the North Arabian Sea. London, Proc. Malac. Soc., **7**, 1906, (20-28, pl. iii).

Melville, J. C. 2. Descriptions of *Cyclotrema prestoni* and *Nassa tindalli*, n. spp., from Ceylon. London, Proc. Malac. Soc., **7**, 1906, (29-30, fig.).

Melville, J. Cosmo. 3. Descriptions of thirty-one Gastropoda and one Scaphopod from the Persian Gulf and Gulf of Oman, dredged by Mr. F. W. Townsend, 1902-1904. London, Proc. Malac. Soc., **7**, 1906, (69-80, pls. vii-viii).

Melville, J. C. *Capulus lissus* Smith, as type of a proposed new Subgenus (*Mallurium*) of *Amalthea*, Schumacher. London, Proc. Malac. Soc., **7**, 1906, (81-84, figg.).

Melville, J. C. & **Standen**, Robert. 1. The Mollusca of the Persian Gulf, Gulf of Oman, and Arabian Sea, as evidenced mainly through the Collections of F. W. Townsend, 1893-1906; with descriptions of new species. Part. II.—*Pelecypoda*. [With notes by J. C. Gaskin & F. W. Townsend]. London, Proc. Zool. Soc., **1906**, (873-848).

Melville, J. C. & **Standen**, R. 2. Note on *Odostomia lutea* Garrett. J. Conch., Leeds, **11**, 1906, (362-363).

Mendel, Lafayette B[enedict] & **Bradley**, Harold C. Experimental studies on the physiology of the molluscs.

Third paper. Amer. J. Physiol., Boston, Mass., **17**, 1906, (167-176).

Menzel, Hans. Ueber neue Funde von *Cyclostoma elegans* Müller. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (46-48).

Merciai, G. L'Infralías del M. Malbe presso Perugia. Pisa, Proc. verb. soc. tosc. sc. nat., **15**, 1906, (49-50).

Merton, Hugo. Eine auf *Tethys leporina* parasitisch lebende Pteropodenlarve (*Nymphon parasiticum* n. sp.). Berlin, Mitt. Zool. Stat. Neapel, **18**, (136-41, pl. vii).

Metzmacher, A. Miocäner Glimmer-ton von Wendisch-Wehninger bei Domitz. Güstrow, Arch. Ver. Natg., **60**, 1906, (33-36).

Meyer, Werner Theodor. 1. Die Anatomie von *Opisthotenthis depressa* (Ijima und Ikeda). Zs. wiss. Zool., Leipzig, **85**, 1906, (183-269, mit 6 Taf.).

Meyer, W. T. 2. Ueber den männlichen Geschlechtsapparat von *Opisthotenthis depressa* (Ijima und Ikeda). Zool. Anz., Leipzig, **29**, 1906, (758-760).

Meyer, W. T. 3. Ueber das Leuchtorgan der Sepiolini. Zool. Anz., Leipzig, **30**, 1906, (388-392).

Milne, J. [James] N. 1. *Helix virgata* in Co. Down. Irish Nat., Dublin, **15**, 1906, (111).

Milne, J. N. 2. *Succinea oblonga* in Antrim. Irish Nat., Dublin, **15**, 1906, (190).

Milne, J. N. & **Stelfox**, A. W. 1. Some new Molluscan Records for Co. Tyrone. Irish Nat., Dublin, **15**, 1906 (75).

Milne, J. N. & **Stelfox**, A. W. 2. A new station for *Helix virgata*. Irish Nat., Dublin, **15**, 1906, (76).

Miquel, Jean. Essai sur les Calcaires rognaciens des collines de Castigno. Béziers, Bul. soc. étud. sci. nat., **27**, 1905, (7-16).

Möllendorff, O[tto] F[ranz] von. Landmollusken. Ergänzungen und Berichtigungen zum 3. Bde. Nach des Verf. Tode fortgeführt v. Wilhelm Kobelt u. Frau Gertrud Winter,

geb. v. Möllendorff. (C. Semper, Reisen im Archipel der Philippinen, Wissenschaftl. Resultate, Bd 10, H. 2.) Wiesbaden, (C. W. Kreidel), 1906, (33-64, mit 12 Taf.). 33 cm. 24 M.

Montandon, A. Notes sur la Faune malacologique de la Roumanie. Bull. Soc. Bucarest, **15**, 1906, (209-230).

Monterosato, T. [A.] di. 1. Articolo sulle *Auriculide*, *Assiminide* e *Truncatellide* dei mari d'Europa. Naturalista sicil., Palermo, **18**, 1906, (125-130).

Monterosato, A. di. 2. Articolo sul *Pecten opercularis* e sue forme. Naturalista sicil., Palermo, **18**, 1906, (145-151).

Moroff, Th. Sur l'évolution des prétendues Coccidies des Céphalopodes. Paris, C.-R. Acad. sci., **142**, 1906, (652-654).

Müller, G. & Wollemann, A. Die Molluskenfauna des Untersenon von Braunschweig und Ilse. II. Die Cephalopoden. Berlin, Abh. geol. Landesanst., **47**, 1906, (30).

Murdoch, R. Anatomy of *Paryphanta atramentaria*, Shuttleworth. Wellington, Trans. N. Zeal. Inst., **38**, 1906, (313-316).

Murdoch, R. & Suter, H. [Henry]. Results of Dredging on the Continental shelf of New Zealand. Wellington, Trans. N. Zeal. Inst., **38**, 1906, (278-305).

Nägele, G. Einiges aus Vorderasien. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (25-30).

Napier, H. C. vide Carpenter, G. H. D. & Napier.

Nason, Wm. A. A new subspecies of *Polygyra multilineata* Say. Nautilus, Boston, Mass., **19**, 1906, (141-142).

Navas, Longinos. 1. Notas Zoológicas. Zaragoza, Bol. Soc. Arag., **5**, 1906, (199-213).

Navas, L. 2. Distribution géographique de *Helix candidissima*. Feuille jennes natural., Paris, **36**, 1906, (133).

Nelli, Bindo. Il miocene del Monte Titano nella Repubblica di San Marino. Roma, Rend. Acc. Lincei, **15**, 1906, (741-744).

Nelson, William *vide* R.

Neuville, H. vide Anthony, R.

Neuville, H. & Anthony, R. 1. Troisième et quatrième listes des Mollusques d'Abyssinie (collection Maurice de Rothschild). Bul. Muséum, Paris, **1906**, (319-321, 411-415).

Neuville, H. & Anthony, R. 2. Liste préliminaire des Mollusques des lacs Rodolphe, Stéphanie et Marguerite. Bul. Muséum, Paris, **1906**, (407-410).

Neuville, H. & Anthony, R. 3. Contribution à l'étude de la faune Malacologique des lacs Rodolphe, Stéphanie et Marguerite. Paris, Bul. Soc. philom., **8**, 1906, (275-300, 1 pl.).

Neveu-Lemaire, M. [and others]. Mission scientifique G. de Créqui Montfort et E. Sénéchal de la Grange. Les Lacs des hauts plateaux de l'Amérique du sud. [Mollusca by A. Bavay.] Paris, 1906 (ii + 197, 18 pls.).

Newton, R. Bullen. 1. Note on Swainson's Genus *Volutilithes*. London, Proc. Malac. Soc., **7**, 1906, (100-104, pl. xii).

Newton, R. B. 2. Notice of some fossils from Singapore, discovered by John B. Scrivenor, F.G.S., Geologist to the Federated Malay States. Geol. Mag., London, **3**, 1906, (487-496).

Nicklès, René. Sur l'existence de *Psiloceras planorbe* dans la région de Vitrey (Haute-Marne). Nancy, Bul. Soc. sci., **7**, 1906, (218-220).

Nicoll, William. Notes on Trematode Parasites of the Cockle (*Cardium edule*) and Mussel (*Mytilus edulis*). Ann. Mag. Nat. Hist., London, **17**, 1906, (148-155, 1 pl.).

Nierstrasz, H[ugo] F[rederik]. Beiträge zur Kenntnis der Fauna von Süd-Afrika. (Ergebnisse einer Reise von Prof. Max Weber im Jahre 1894.) VI. Chitonen aus der Kapkolonie und Natal. Zool. Jahrb., Jena, Abt. f. Syst., **23**, 1906, (487-520, mit 2 Taf.).

Nierstrasz, H. F. 2. Remarks on the *Chitonidae*. Helder, Tijdschr. Ned. Dierk. Ver., (Ser. 2), **10**, 1906, (141-172, with 1 pl.).

Nishikawa, Tōkichi. 1. Mezurashiki Ika. [On a rare Cephalopod]. Dobuts. Z., Tokyo, **18**, 1906, (109-113, with pl.).

- Nishikawa, T. 2.** Fuyū-sei Ika-ran no ichi rei. [A case of pelagic Cephalopod eggs.] Dobuts. Z., Tokyo, **18**, 1906, (310-314, with pl.).
- Noetling, Fritz. 1.** Ueber die Ontogenie von *Indoceras baluchistanense* Noetling. N. Jahrb. Min., Stuttgart, **1905**, 1, (1-14).
- Noetling, F. 2.** Die Entwicklung von *Indoceras baluchistanense* Noetling. Ein Beitrag zur Ontogenie der Ammoniten. Geol. u. paläont. Abh., Jena, **12**, 1906, (1-96, mit 7 Taf.).
- Øyen, P. A. 1.** Det sydlige Norges "boreale" strandlinje. Kristiania, For. Tid. Selsk., **1906**, No. 1 (39).
- Øyen, P. A. 2.** Skjælbanken ved Skrellene. Arch. Math. Naturw., Kristiania, **27**, No. 9, 1906, (19).
- Oppenheim, Paul. 1.** Zur Kenntnis alttertiärer Faunen in Ägypten. 2 Lieferung: Der Bivalven zweiter Teil, Gastropoda und Cephalopoda. Palaeontographica, Stuttgart, **30**, 1906, (163-348, pls. xviii-xxvii).
- Oppenheim, P. 2.** Über einige Fossilien der Côte des Broques bei Biarritz. Berlin, Zs. D. Geol. Ges., **58**, 1906, Mitt., (77-91).
- Oppenheim, P. 3.** Neue Beiträge zur Geologie und Paläontologie der Balkanhalbinsel. Berlin, Zs. D. Geol. Ges., **58** 1906, (109-180).
- Oppenheimer, Josef.** Ueber *Amaltheus margaritatus* aus dem Lias von Freistadt in Mähren. Wien, Verh. Geol. RchsAnst., **1906**, (140).
- [**Ostroumoff, A.**] **Остроумовъ, А. О.** моллюскахъ Аральскаго моря. [Ueber die Mollusken des Aralsees]. Taškent, Izv. Turk. Otd. Russ. Geogr. Obšč. **4**, 7, 1906, (20-26 mit 1 Taf.).
- Otto, H. & Tönniges, C.** Untersuchungen über die Entwicklung von *Paludina vivipara*. Zs. wiss. Zool., Leipzig, **80**, 1906, (411-514, mit 6 Taf.).
- Pacaut, M. & Vigier, P. 1.** Les glandes salivaires de l'Escargot (*Helix pomatia*). Anatomie-physiologie. Contribution à l'histo-physiologie glandulaire. Arch. anat. microsc., Paris, **8**, 1906, (425-659, av. 3 pl.).
- Pacaut, M. & Vigier, P. 2.** Les glandes salivaires de l'Escargot (*Helix pomatia*). Paris, C.-R. Acad. sci., **142**, 1906, (412-414).
- Pacaut, M. & Vigier, P. 3.** La salive agit-elle chez l'Escargot dans la digestion des albuminoïdes? Paris, C.-R. soc. biol. **60**, 1906, (232-234).
- Pacaut, M. & Vigier, P. 4.** Les glandes de Nalepa (glandes salivaires antérieures) de l'Escargot. Paris, C.-R. soc., biol., **60**, 1906, (230-232).
- Pacaut, M. & Vigier, P. 5.** Évolution du zymocyte dans les glandes salivaires proprement dites de l'Escargot. Paris, C.-R. soc. biol., **60**, 1906, (419-421).
- Pacaut, M. & Vigier, P. 6.** Sur le rôle du suc des glandes de Nalepa chez l'Escargot. Paris, C.-R. soc. biol., **60**, 1906, (545-546).
- Pacaut, M. & Vigier, P. 7.** Notes cytologiques sur les glandes salivaires d'*Helix pomatia*. I. Formations chromophiles (ergastoplasmes, chondriomites). C.-R. Ass. anat. 7^e session (Genève), **1905**; Nancy, 1906, (175-176).
- Pacaut, M. & Vigier, P. 8.** Notes cytologiques sur les glandes salivaires d'*Helix pomatia*. II. Maturation et dissolution des grains de zymogène. C.-R. Ass. anat., 7^e session (Genève), **1905**; Nancy, 1906, (69-78, av. fig.).
- Pallary, Paul.** Addition à la faune malacologique du golfe de Gabès. J. conchyliol., Paris, **54**, 1906, (77-124, av. fig.).
- Parisch, Clelia & Viale, Clelia.** Contribuzione allo studio delle ammoniti del lias superiore. Rev. Ital. Paleont., Perugia, **12**, 1906, (141-168).
- Parona, Carlo Fabrizio. 1.** Appunti per lo studio del cretaceo superiore nell'Appennino. Roma, Boll. Soc. Geol., Ital., **24**, 1906, (654-658).
- Parona, C. F. 2.** Sulla fauna e sull'età dei calcari a megalodontidi delle Cave di Trevi (Spoleto). Torino, Atti acc. sc., **41**, 1906, (165-171).
- Pelseneer, Paul. 1.** Biscayan Plankton. Part VII. Mollusca (excluding Cephalopoda). London, Trans. Linn. Soc., **10**, 1906, (55-87).
- Pelseneer, P. 2.** Un genre de Lamelibranches à bouches multiples. Paris, C.-R. Acad. sci., **142**, 1906, (722-723).

Pelseneer, P. 3. Trématodes parasites de mollusques marins. *Bul. sci. France Belgique, Paris*, **40**, 1906, (161-86).

Pelseneer, P. vide Lankester, E. R.

Péron, —. Etudes paléontologiques sur les terrains du département de l'Yonne. Les Pélécypodes rauraciens et séquanien. Auxerre, *Bul. soc. sci. hist. nat.*, **59**, 1906, (33-266, av. fig.).

Pérot, Francis. Recherches sur la présence de coquilles d'huîtres et d'autres mollusques marins dans les ruines gallo romaines du centre de la Gaule. Autun, *Bul. soc. hist. nat.*, **19**, 1906, (C.-R., 188-205).

Pethö, Julius. Die Kreide-(Hyperseon-)Fauna des Perterwardeiner (Pétervárader) Gebirges (Fruska Gora). *Palaeontographica, Stuttgart*, **52**, 1906, (57-331).

Petraschek, W. [Wilhelm]. 1. Die Zone des *Actinoamax plenus* in der Kreide des östlichen Böhmen. *Wien, Jahrb. Geol. Reichs. Anst.*, **55**, 1905, (399-434).

Petraschek, W. 2. Ueber Inoceramen aus der Gosau und dem Flysch der Nordalpen. *Wien, Jahrb. Geol. Reichs. Anst.*, **56**, 1906, (155-168, mit 1 Taf.).

Petrbok, J. Zur Kenntniss der Molluskenfauna von Montenegro. Meine Antwort zur Abhandlung des Herrn O. Wohlberedt. *Frankfurt a. M., Nachr.-Bl. D. malakozool. Ges.*, **38**, 1906, (220-221).

Petterd, F. W. vide Hedley, C. & Petterd.

Piercy, L. F. *Cœcilioides acicula*, etc., in *East Yorks. Naturalist, London*, **1906**, (163).

Pilsbry, Henry A. [Augustine]. 1. Manual of conchology; structural and systematic. With illustrations of the species. (Second Series: Pulmonata.) Vol. **18**. [In four parts. Pts. 69-71.] *Achatinidae, Stenogyridae and Cœliaxinae*. Philadelphia (Conchological dept., Academy nat. sci.), 1906, (1-272, with pl., partly col.). 21.5 cm.

Pilsbry, H. A. 2. Catalogue of the land and fresh-water Mollusca of Taiwan (Formosa), with description of new species. Philadelphia, Pa., *Proc. Acad. Nat. Sci.*, **57**, 1905, 1906, (720-752, incl. map).

Pilsbry, H. A. 3. Description of a new Australian *Glycymeris*. Philadelphia, Pa., *Proc. Acad. Nat. Sci.*, **58**, 1906, (213-214, with text fig.).

Pilsbry, H. A. 4. *Vitrea rhoadsi* and *Succinea retusa magister*. *Nautilus, Boston, Mass.*, **19**, 1906, (109, with text fig.).

Pilsbry, H. A. 5. Shells of Grant, Valencia Co., New Mexico. *Nautilus, Boston, Mass.*, **19**, 1906, (130).

Pilsbry, H. A. 6. A new Chinese *Sitala*. *Nautilus, Boston, Mass.*, **20**, 1906, (5).

P[ilsbry], H. A. 7. On the generic name *Anostoma*. *Nautilus, Boston, Mass.*, **20**, 1906, (11).

Pilsbry, H. A. 8. *Helix jejuna* Say transferred to *Praticolella*. *Nautilus, Boston, Mass.*, **20**, 1906, (32-33, with text fig.).

Pilsbry, H. A. 9. A synonym of *Brachypodella*. *Nautilus, Boston, Mass.*, **20**, 1906, (47).

Pilsbry, H. A. 10. Note on *Dyakia* and *Pseudopartula*. *Nautilus, Boston, Mass.*, **20**, 1906, (47).

Pilsbry, H. A. 11. Two new American genera of Basommatophora [Alabama]. *Nautilus, Boston, Mass.*, **20**, 1906, (49-51, with pl.).

Pilsbry, H. A. 12. Note on *Lepyrium*. *Nautilus, Boston, Mass.*, **20**, 1906, (51).

Pilsbry, H. A. 13. On *Chloritis heteromphalus* Pilsbry. *London, Proc. Malac. Soc.*, **7**, 1906, (196).

Pilsbry, H. A. vide Vanatta, E. G. & Pilsbry.

Pilsbry, H. A. & Cooke, C. M., jun. On Hawaiian species of *Sphyradium*. Philadelphia, Pa., *Proc. Acad. Nat. Sci.*, **58**, 1906, (215-216, with text fig.).

Pilsbry, H. A. & Ferriss, J. [James] H. Mollusca of the south-western states. 2. Philadelphia, Pa., *Proc. Acad. Nat. Sci.*, **58**, 1906, (123-175, with pl., text fig.).

Pilsbry, H. A. & Vanatta, E. G. 1. Hawaiian species of *Endodonta* and *Opeas*. Philadelphia, Pa., *Proc. Acad. Nat. Sci.*, **57**, (1905), 1906, (783-786, with pl., text fig.).

Pilsbry, H. A. & Vanatta, E. G. 2. On some Pacific *Cerithiidae*. Phila-

delphia, Pa., Proc. Acad. Nat. Sci., **57**, 1905, (1906), (787-789, with text fig.).

Pilsbry, H. A. & Walker, Bryant. Note on *Vitrea approxima* and *V. ranattai*. Nautilus, Boston, Mass., **20**, 1906, (57-58).

Plant, J. R. The Geological History of the Mollusca. Leicester, Trans. Lit. Phil. Soc., **10**, 1906, (28-33).

Plate, I. [udwig]. Die Artbildung bei den *Cerion*-Landschnecken der Bahamas. Verh. D. zool. Ges., Leipzig, **16**, 1906, (127-138, mit 1 Taf.).

Plate, L. *vide* Martens, E. von.

Pocock, T. I. The Geology of the Country around Macclesfield, Congleton, Crewe, and Middlewich. Mem. Geol. Surv. U. K., London, **326-340**, 1906, (1-138).

Pollonera, Carlo. **1.** I. Intorno a due nuove specie di *Aemeide*. II. Molluschi terrestri e fluviatili delle Isole d'Elba e Pianosa. Torino, Boll. Musei zool. anat., **20**, 1905, No. 517, (1-10).

Pollonera, C. **2.** Ein neues italienisches *Zospeum*. [*Z. venetum* Poll.] Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (16).

Popoff, Methodi. Zur Frage der Homologisierung des Binnennetzes der Ganglienzellen mit den Chromidien (= Mitochondria, etc.) der Geschlechtszellen. Anat. Anz., Jena, **29**, 1906, (249-258).

Popovici-Bazosanu, A. Sur l'appareil séminal des *Helix*. Paris, C.-R. Acad. sci., **143**, 1906, (70-72).

Preston, H. B. **1.** Descriptions of four new species of marine shells, probably from Ceylon. London, Proc. Malac. Soc., **7**, 1906, (34-35, figg.).

Preston, H. B. **2.** Description of a new species of *Limnaea* from North-West Australia. London, Proc. Malac. Soc., **7**, 1906, (36, fig.).

Preston, H. B. **3.** On a small collection of land and fresh-water shells from Uganda, with descriptions of a new species of *Martensia* and two new species of *Limicolaria*. London, Proc. Malac. Soc., **7**, 1906, (88-90, figg.).

Prinz, Julius. **1.** Die Nautiliden in der unteren Jura-Periode. Ann. Hist.-Nat. Mus. Nat. Hung., Budapest, **4**,

1906, (201-243, Taf. iii-iv und 6 Textfig.).

Prinz, Gyula. **2.** A *Lytocera*tidae Neum. család tapadóizmának felfedezése a s. vigilói (Garda) dogger faunájában. [Die Entdeckung der Haftmuskeln bei der Familie: *Lytocera*tidae Neum. in der Doggerfauna von San Vigilo (Garda).] Math. Term. Ért., Budapest, **24**, 1906, (418-432, mit Taf. i).

Prinz, G. **3.** Ujdatok a *Frechiella*-nem ismeretéhez. [Neue Beiträge zur Kenntnis der Gattung *Frechiella*.] Földt. Közl., Budapest, **36**, 1906, (51-56, 155-160).

Prinz, G. **4.** Piszkei dumortieriák. [Dumortierien von Piszke.] Földt. Közl., Budapest, **36**, 1906, (57-58, 161-162).

Prinz, G. **5.** Ueber die systematische Darstellung der gekielten *Phyllocerati*-den. Centralbl. Min. Stuttgart, **1906**, (237-241); v. Uhlig, V., T.c. (417).

Pritchard, G. B. **1.** Some Palaeontological Notes. Vict. Nat., Melbourne, **23**, 1906, (117-120).

Pritchard, G. B. **2.** Excursion to Wilson's Promontory, Conchology. Vict. Nat., Melbourne, **23**, 1906, (207-212).

Pritchard, G. B. & Gatliff, J. H. Catalogue of the Marine Shells of Victoria, Part ix, with complete Index to the whole Catalogue. Melbourne, Proc. R. Soc. Vict., **18**, 1906, (39-92).

Pritchett, Annie H. Fossil Cephalopoda, described by Hyatt and Cragin, in the Museum of the University of Texas. Austin, Cont. Zool. Lab. Univ. Tex., No. 66 in Biol. Bull., Woods Holl, Mass., **8**, 1905, (365-366).

R——, —. Obituary notice of the late William Nelson. J. Conch., Leeds, **11**, 1906, (357-359).

Rajat, H. Influence de la température de l'eau ambiante sur la croissance des Mollusques aquatiques. Paris, C.-R. soc. biol., **60**, 1906, (300-302).

Rathery, F. *vide* Mayer, A. & Rathery.

Raymond, Percy E. **1.** The Chazy formation and its fauna. [With bibliography.] Pittsburgh, Pa., Ann. Carnegie Mus., **3**, 1906, (498-598, with pl., text fig.).

Raymond, P. E. **2.** An Ordovician gastropod retaining color markings.

Nautilus, Boston, Mass., **19**, 1906, (101-102, with text fig.).

Raymond, William James. The west American species of *Pleurotoma*, subgenus *Genota*. Nautilus, Boston, Mass., **20**, 1906, (37-39, with pl.).

Reed, F. R. Cowper. **1**. New fossils from the Bokkeveld Beds, South Africa. Geol. Mag., London, **3**, 1906, (301-310).

Reed, F. R. C. **2**. New fossils from the Haverfordwest District. Geol. Mag., London, **3**, 1906, (358-368).

Regelsperger, Gustave. La nacre et la perle aux îles Tuamotu. Nature, Paris, **34**, 1906, (2^e semest.), (5-7, av. fig.).

Reis, O. M. Ueber die Muskelleiste bei Zweischalern. Centralbl. Min., Stuttgart, **1906**, (168-173).

Remeš, Mauric. **1**. Fauna t. zv. exotických balvanů štramberského vápence v Rychalticích na Moravě. Prag, Rozpr. České Ak. Frant. Jos., **14**, No. 6, 1905, (1-9).

Remeš, M. **2**. Fauna der sog. exotischen Blöcke des Stramberger Kalksteins in Rychaltitz (Mähren). Prag, Bull. Ac. Sci. Franç. Jos., Math., **10**, 1905, (33-37).

Renz, Carl. **1**. Die Entwicklung des Doggers im westlichen Griechenland. Wien, Jahrb. Geol. Reichsanst., **56**, 1906, (745-758, mit 3 Taf.).

Renz, C. **2**. Sur les terrains jurassiques de la Grèce. Paris, C.-R. Acad. sci., **143**, 1906, (708-710).

Renz, C. **3**. Ueber Halobien und Daonellen aus Griechenland nebst asiatischen Vergleichsstücken. N. Jahrb. Min., Stuttgart, **1906**, I, (27-40, mit 1 Taf.).

Renz, C. *vide* Frech, F. & Renz.

Repelin, J. Monographie de la faune saumâtre du campanien inférieur du sud-est de la France. Marseille, Ann. Mus., **10**, 1906-7.

Retzius, Gustaf. Die Spermen der Gastropoden. [In] Retzius, Biolog. Untersuchungen, N.F., **13**, Jena (G. Fischer), 1906, (1-36, mit 12 Taf.).

Reynell, Alexander. **1**. *Cassidaria rugosa*. London, Proc. Malac. Soc., **7**, 1906, (67).

Reynell, A. **2**. On *Burtoa nilotica* (Pfeiffer) and its relationship to *Achatina*, &c. London, Proc. Malac. Soc., **7**, 1906, (197-200).

Reynolds, A. G. Collecting in the Everglades. Nautilus, Boston, Mass., **20**, 1906, (9).

Richardson, Linsdall. **1**. Liassic *Dentaliidae*. London, Q. J. Geol. Soc., **62**, 1906, (573-596).

Richardson, L. **2**. The Lias of Worcestershire. Worcester, Trans. Nat. Cl., **3**, 1906, (192-206).

Richarz, P. Steph. Die Neokombildungen bei Kaltenleutgaben. Wien, Jahrb. Geol. Reichsanst., **54**, 1905, (343-358).

Rimmer, Richard. London, Proc. Malac. Soc., **7**, 1906, (67).

Ristori, G. Il Bacino del Trasimeno. Roma, Mem. Soc., ser. 3, **13**, 1905, (325-405).

Rivers, J. J. Descriptions of some undescribed fossil shells of Pleistocene and Pliocene formations of the Santa Monica range. Los Angeles, Bull. So. Cal. Acad. Sci., **3**, 1904, (69-72, with pl.).

Roberts, N. F. Notes on a Section of Woolwich and Reading Beds. New Cross Gate. Croydon, Proc. Trans. Nat. Hist. Soc., **1904-5**, (111-113).

Rogers, A. W. A raised beach deposit near Klein Brak River. Rep. Geol. Comm. C. G. H., **1905**, [1906], (293-296).

Roman, F. La Géologie des environs de Nîmes. Nîmes, Bul. Soc. étud. sci. nat., **33**, 1906, (1-64).

Rope, G. [George] T. Do swans and ducks eat *Anodonta cygnea*. J. Conch., Leeds, **11**, 1906, (330).

Roseburgh, J. List of land and freshwater Mollusca [of Galashiels]. Alnwick, Proc. Berwicks. Nat. Cl., **19**, 1906, (200-203).

Rossmässler, E. [Emil] A. [Adolf]. Iconographie der Land- u. Süßwasser-Mollusken mit vorzüglicher Berücksichtigung der europäischen noch nicht abgebildeten Arten. Fortges. v. W[ilhelm] Kobelt. (N.F.) Bd. 12, Lfg 3-6 [Schluss des Bandes]. Color. u. schwarze Ausg. Wiesbaden (C. W. Kreidel), 1906, (25-64, mit 20 Taf.).

26 cm. Schwarze Ausg. 4,60 M. Color. Ausg. 8 M. Bd 13, Lfg 1. 2. Color. u. schwarze Ausg. Wiesbaden (C. W. Kreidel), 1906, (1-16, mit 10 Taf.). 26 cm. Schwarze Ausg. 4,60 M. Color. Ausg. 8 M.

Rossmässler, Emil Adolf *vide* Kobelt.

Roth, S., Kurtz, F. & Burckhardt, C. [Carl]. Le Lias de la Piedra Pintada (Neuquen). *Rev. Mus.*, La Plata, **10**, 1902, (225-56, 4 pls.).

Roth, Wilhelm. 1. Ueber das *Glochidium parasiticum*. *Bl. Aquarienkunde*, Magdeburg, **17**, 1906, (108-111, 117-119, 123-127).

Roth, W. 2. Ueber das Vorkommen einer selteneren *Paludina* im Zürichsee. *Natur u. Haus*, Dresden, **14**, 1906, (151-157).

Roth, W. 3. Ueber die Herkunft und das Alter der Zürichseepaludina. *Bl. Aquarienkunde*, Magdeburg, **17**, 1906, (175-176, 271).

Roth, W. 4. Ueber die Artbestimmung der Zürichseepaludina. *Bl. Aquarienkunde*, Magdeburg, **17**, 1906, (180-182).

Roth, W. 5. Erläuternde und ergänzende Bemerkungen zu dem Aufsatz: „Die westeuropäischen *Vivipara*-Arten. I. Von Prof. Dr. W. Kobelt. *Bl. Aquarienkunde*, Magdeburg, **17**, 1906, (431-432, 438-440).

Roth, W. 6. Ueber das Laichgeschäft der *Ampullaria gigas*. Ergänzende Beobachtungen und Bemerkungen. *Natur u. Haus*, Dresden, **14**, 1906, (97-99).

Roth, W. 7. Die rote Posthornschnecke — dennoch ein Albino. *Bl. Aquarienkunde*, Magdeburg, **17**, 1906, (358-360, 367-370).

Rous, Sloman. Note on *Mitra picta* Reeve. *Nautilus*, Boston, Mass., **20**, 1906, (57).

Roux, Claudius. Notice bibliographique sur plus de deux cents manuscrits inédits ou peu connus concernant pour la plupart l'histoire naturelle de la région Lyonnaise. *Lyon, Ann. soc. linn.*, **52**, 1906, (227-50).

Roux, Cl. & Collet, A. Description géologique de la nouvelle ligne ferrée de Lozanne à Givors. *Lyon, Ann. soc. linn.*, **52**, 1906, (1-40).

Rowell, J. *Cochliopa rowelli* in California. *Nautilus*, Boston, Mass., **20**, 1906, (10).

Ruedemann, R[udolph]. 1. The structure of some primitive cephalopods. [With bibliography.] Albany, N.Y., St. Educ. Dept., *Mus. Bull.*, No. **80**, 1905, (296-341, with text fig., pl.).

Ruedemann, R. 2. Cephalopoda of the Beekmantown and Chazy formations of the Champlain basin. Albany, N.Y., St. Educ. Dept., *Mus. Bull.*, No. **90**, 1906, (21 + 393-611, with text fig., pl.). 23 cm

Ruthven, A. G. *vide* Walker, B. & Ruthven.

Sacco, Federico. Les étages et les faunes du Bassin Tertiaire du Piémont. *Paris, Bul. Soc. géol.*, **5**, 1906, (893-916).

[**Saint-Hilaire, K.**] Сентъ-Илеръ, К. Къ вопросу объ иннерваціи хроматофоровъ у головоногихъ моллюсковъ (Cephalopoda). [Ueber die Innervation der Chromatophoren bei den Cephalopoden.] *Jurjev, Sitzb. Naturf. Ges.*, **15**, 1, 1906, (51-59); deutsch. *Rés.* (60-66).

Sale, E. L. Pearls in the Thana Creek (W. India). *Bombay, J. Nat. Hist. Soc.*, **17**, (228).

Salfeld, H. Beitrag zur Kenntniss des *Peltoceras toucasi* d'Orb. und *Peltoceras transversarium* Qu. *N. Jahrb. Min.*, Stuttgart, **1906**, 1, (81-90).

Scalia, S. 1. I fossile postpliocenici di Salustro, presso Motta S. Anastasia. *Catania, Atti Acc. Gioenia*, **19**, No. 17, 1906, (12).

Scalia, S. 2. Sopra le argille postplioceniche della Vena, presso Piedmonte Etneo. *Napoli, Rend. Acc. sc.*, **12**, 1906, (110-112).

Scammon, Richard E. The *Unionidae* of Kansas, Part 1. An illustrated catalogue of the Kansas *Unionidae*. Lawrence, Kan. *Univ. Sci. Bull.*, **3**, 1906, (277-373, with pl.).

Scharff, R. [Robert] F. 1. The Exploration of the Caves of County Clare. Animal Remains. *Dublin, Trans. R. Irish Acad.*, **33 B**, 1906, (22-24).

Scharff, R. F. 2. *Helix tormensis* in Ireland. *Irish Nat.*, Dublin, **15**, 1906, (190).

Schepman, M[attheus] M[azinus]. On a collection of land and freshwater mollusks from Taliabu (Nulla-Isles). Leiden, Notes Mus. Jentink, **28**, 1906, (120-128, with 1 pl.).

Schiemenz, Paulus. Die Pteropoden der Plankton-Expedition. (Ergebnisse der Plankton-Expedition der Humboldt-Stiftung. Bd II. F.b) Kiel u. Leipzig (Lipsius & Tischer), 1906, (1-38, mit 3 Taf.). 33 cm. 5,10 M.

Schiller, K. *vide* Schorler, B.

[**Schimkewitsch**, V. M.] Шимкевичъ, В. М. Экспериментальныя наблюденія надъ яичами *Philine aperta* (Lam.) [Experimentelle Beobachtungen an den Eiern von *Philine aperta* (Lam.)]. St. Peterburg, Trav. Soc. nat., **35**, 4, 1906, (16-26); deutsches Rés., (26-27, mit 36 Fig. i. T.).

Schlosser, Max. Über fossile Land- und Süßwassergastropoden aus Centralasien und China. Budapest, Ann. Mus. Nat. Hung., **4**, 1906, (327-405).

SCHLUMBERGER, Ch. *vide* Fischer, H.

Schmidt, Axel. Die Zweischaler des niederschlesischen und böhmischen Rotliegenden. N. Jahrb. Min., Stuttgart, **1905**, I, (44-59).

Schmidt, Erich. Der oberste Lenneschiefer zwischen Letmathe und Iserlohn. Berlin, Zs. D. geol. Ges., **57**, 1905, (498-561, pls.).

Schmitt, Joseph. Monographie de l'île d'Anticosti (Golfe Saint-Laurent). Paris (A. Hermann), **1904**, (6 + 367, pls.).

Schmitz, H. Zur Biologie der Weinbergsschnecke (*Helicogona pomatia* L.). Natur u. Offenb., Münster, **52**, 1906, (241-243).

Schoepf. Die Schnecke als Nonnenfeind. Forstwiss. Centralbl., Berlin, **28**, 1906, (609-610).

Schorler, B., **Thallwitz**, J. & **Schiller**, K. Pflanzen und Tierwelt des Moritzburger Grossteiches bei Dresden. Ann. R. d. Lacustre, Bruxelles, **1**, 1906, (193-310).

Schubert, R. J. Zur Stratigraphie des istrisch-norddalmatinischen Mittel-eocäns. Wien, Jahrb. Geol. Rchs. Anst., **55**, 1905, (153-158).

Schuchert, Charles. Geology of the Lower Amazon Region. J. Geol., Chicago, Ill., **14**, 1906, (722-746).

Schwartz, E. [Ernest] H. L. South African Palaeozoic Fossils. Grahams-town, Rec. Albany Mus., **1**, 1906, (347-404).

Seidlitz, Wilfried von. Geologische Untersuchungen im östlichen Rätikon. Freiberg B., Ber. natf. Ges., **16**, 1906, (232-366).

Sell, Henrik. Einfluss des bewegten Wassers auf die Gestaltung der Muscheln aus der Familie *Unionidae* Flem. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (38-44, 64-68).

Sellards, E[lias] H[oward]. Food habits of the snail *Bulimulus dormani* Binney. Science, New York, N.Y., N. Ser., **24**, 1906, (469-470).

Semper, C[arl]. Reisen im Archipel der Philippinen. Wissenschaftl. Resultate. Bd 10, H. 2; Möllendorf, Landmollusken. Wiesbaden (C. W. Kreidel), 1906, (33-64, mit 12 Taf.). 33 cm. 24 M.

Seurat, L. G. **1**. Observations sur l'évolution de l'huître perlière des Tuamotu et des Gambier. Papete, 1904, (12). 3.5 cm.

Seurat, L. G. **2**. La nacre et la perle en Océanie—Pêche—origine et mode de formation des perles. Bul. Mus., Monaco, No. **75**, 1906, (25).

Seurat, L. G. **3**. Sur un Cestode parasite des huîtres perlières déterminant la production des perles fines aux îles Gambier. Paris, C.-R. Acad. sci., **142**, 1906, (801-803).

Shaw, W. A. **1**. *Hygromia rufescens* (Penn.) m. *sinistrorsum*. J. Conch., Leeds, **11**, 1906, (231).

Shaw, W. A. **2**. Sinistral *Helicigona arbustorum*. J. Conch., Leeds, **11**, 1906, (330).

Sheppard, T. **1**. Notes on some Speeton-Clay Belemnites. Naturalist, London, **1906**, (97-99, 2 pls.).

Sheppard, T. **2**. On a section in the Post-glacial Deposit at Hornsea. Naturalist, London, **1906**, (420-424).

Sherborn, C. Davies. On the Belemnites of the Chalk of Yorkshire. Naturalist, London, **1906**, (152-154, pls.).

Shimek, B. Additional note on *Helicina occulta*. *J. Geol.*, Chicago, Ill., **13**, 1905, (232-237).

Shimer, Hervey Woodburn. Upper Siluric and Lower Devonian faunas of Trilobite mountain, Orange county, New York. [With bibliography.] Albany, N.Y., St. Educ. Dept., Mus. Bull., **80**, 1905, (173-269, with text-fig., pl.).

Siemiradzki, Jos[ef] von. 1. Die paläozoischen Gebilde Podoliens. II. Paläontologischer Theil. Wien, Beitr. Pal. Geol. OestUng., **19**, 1906, (213-286, mit 7 Taf.).

Siemiradzki, J. 2. Monographie paléontologique des couches paléozoïques de la Podolie. Krakow, Bull. Intern. acad., **1906**, (23-32).

Sigl, O. *Physa acuta* Drp. bei München (aus einem Brief vom 29. Dezember 1905 an den Hrsg.) Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (203-204).

Sikes, F. H. Numerous species in a restricted area. *J. Conch.*, Leeds, **11**, 1906, (365).

Simionescu, Ioan. Studii geologice și Paleontologice din Carpații sudici. IV. Fauna Jurasică din Bucegi. Publ. Adamachi Ac. Romana, **13**, 1905.

Simpson, Cha[rle]s T[orrey]. [*Drymaeus dormani* and allied species in Manatee county, Florida.] *Nautilus*, Boston, Mass., **20**, 1906, (24).

Simroth, H[einrich]. 1. Mollusca (Weichtiere). [Forts.] (H. G. Bronn's Klassen u. Ordnungen des Tier-Reichs, Bd 3, Lfg 80-89.) Leipzig (C. F. Winter), 1906, (809-944, mit Taf.). 26 cm.

Simroth, H. 2. Bemerkungen über die Tierwelt Sardiniens. *Verh. D. zool. Ges.*, Leipzig, **16**, 1906, (160-194).

Simroth, H. 3. Versuch einen neuen Deutung der Bellerophonitiden. Leipzig, Sitzber. natf. Ges., **1905** (1906), (3-8).

Simroth, H. 4. Ueber eine Reihe von Nacktschnecken, die Herr Dr. Ceconi auf Cypern und in Palaestina gesammelt hat. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (17-24, 84-91).

Simroth, H. 5. Kurze Bemerkungen zu der Arbeit von Baron Rosen: Beitrag zur Kenntniss der Molluskenfauna des

Kaukasus. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (162-163).

Simroth, H. 6. Neuere Arbeiten über die Morphologie und Biologie der Gastropoden. [Zusammenfassende Uebersicht.] *Zool. Centralbl.*, Leipzig, **13**, 1906, (341-371).

Simroth, H. 7. Neure Arbeiten über die Verbreitung der Gastropoden. [Zusammenfassende Uebersicht.] *Zool. Centralbl.*, Leipzig, **13**, 1906, (469-497).

Slocum, Arthur Ware. A list of Devonian fossils collected in Western New York, with notes on their stratigraphic distribution. Chicago, Ill., Pub. Field Columb. Mus., Geol. Ser., **2**, 1906, (No. 113), (257-265).

Smith, Edgar A. Albert. 1. Natural History Notes from R.I.M.S. "Investigator," Series III, No. 10, on Mollusca from the Bay of Bengal and the Arabian Sea. *Ann. Mag. Nat. Hist.*, London, **18**, 1906, (157-175, 245-264).

Smith, E. A. 2. On South African marine Mollusca with descriptions of new species. *Ann. Natal Govt. Mus.*, London, **1**, pt. 1, 1906, (19-71, pls. vii-viii).

Smith, E. A. 3. Zoological Results of the Third Tanganyika Expedition, conducted by Dr. W. A. Cunningham, 1904-1905. Report on the Mollusca. London, Proc. Zool. Soc., **1906**, (180-6).

Smith, E. A. 4. Note on *Neptunea antiqua*. London, Proc. Malac. Soc., **7**, 1906, (67).

Smith, E. A. 5. Notes on the Subgenus *Mallurium*, Melvill. London, Proc. Malac. Soc., **7**, 1906, (122, 123).

Smith, E. A. 6. Notes on some species of *Mitridae*, with the description of *M. bretteinghami*, n. sp. London, Proc. Malac. Soc., **7**, 1906, (124-125).

Smith, E. A. vide Sykes, E. R.

Smith, E. A. and Bloomer, H. Howard. The Marine Fauna of Zanzibar and British East Africa, from collections made by Cyril Crossland, in the years 1901 and 1902.—On some species of *Solenidae*. London, Proc. Zool. Soc., **1906**, (855-7).

Smith, Burnett. Phylogeny of the races of *Volutilithes petrosus*. Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, 1906, (52-76, with pl., text fig.).

Smith, Grant. The eyes of certain pulmonate gasteropods, with special reference to the neurofibrillae in *Limax maximus*. Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **48**, 1906, (231-284 + 3l., with 4 pl., text fig.).

Smith, Maxwell. Shells of Richfield springs, New York and vicinity. Nautilus, Boston, Mass., **20**, 1906, (89-91).

Smith, W. D. 1. The development of *Scaphites*. J. Geol., Chicago, Ill., **13**, 1905, (635-654).

Smith, W. D. 2. Preliminary geological reconnaissance of the Loboo Mountains, Batangas Province. Philippine J. Sci., Manila, P.I., **1**, 1906, (617-635).

Smolenski, Georges. Das Unterssenon von Bonarka. I. Cephalopoden und Inoceramen. Krakow, Bull. Intern. Acad., **1906**, (717-728).

Snethlage, Emilie. Ueber die Gattung *Joufia* G. Boehm. Freiburg i. B., Ber. Natf. Ges., **16**, 1906, (1-9).

Soffel, Karl. 1. Fortpflanzung von *Planorbis corneus*. Zool. Beob., Frankfurt a. M., **47**, 1906, (84-85).

Soffel, K. 2. Atemgeräusche bei Schnecken? Zool. Beob., Frankfurt a. M., **47**, 1906, (85).

Sokolow, N. Die Mollusken-Fauna von Mandrikowka. St. Petersburg, Mém. Com. géolog., N. Ser., **18**, 1905, (1-81).

Soós, Lajos. 1. A Magyarországi Neritínák kérdéséhez. [On Hungarian Neritinae.] Budapest, Ann. Hist. nat. Mus. Nat. Hung., **4**, 1906, (450-62).

Soós, Lajos. 2. A tudós csigák köpenyszerveinek alaktani viszonyairól. [Über die morphologischen Verhältnisse der Mantelorgane der Pulmonaten.] Állatt. Közlem., Budapest, **5**, 1906, (25-47, mit Taf. i-ii u. 3 Fig.).

Sowerby, G[eorge] B[rettingham]. On new species of *Siphonaria*, *Terebra*, and *Mangilia*, and a remarkable form of *Cypraea eruenta*, from South Africa. London, Proc. Malac. Soc., **7**, 1906, (37-39), figg.

Spaulding, M. H. A preliminary report on the distribution of the scallops and clams in the Chandeaur island

regions, Louisiana. Cameron, La., Gulf Biol. Sta., Bull., No. **6**, 1906, (29-43, with map).

Standen, R[obert]. Observations on the terrestrial Mollusca of the district around Silverdale, Lancashire. J. Conch., Leeds, **11**, 1906, (325-330).

Standen, Robert vide Melvill, J. C.

Standen, Robert and Leicester, Alfred. Report on the Molluscan shells collected by Professor Herdman, at Ceylon, in 1902. Ceylon Pearl Oyster Fish. Rep., **5**, 1906, (267-294).

Stearns, Robert E[dwards] C[arter]. Fossil Mollusca from the John Day and Mascall beds of Oregon. Berkeley, Univ. Cal. Pub., Bull. Dept. Geol., **5**, 1906, (67-70, with text fig.).

Stelfox, A. W. 1. The land and freshwater Mollusca of North West Donegal. Irish Nat., Dublin, **15**, 1906, (62-67, pl.).

Stelfox, A. W. 2. *Helicella zaka-rensis* in Co. Down. Irish Nat., Dublin, **15**, 1906, (110).

Stelfox, A. W. vide Milne, J. N.

Sterki, V[ictor]. 1. New varieties of North American Pisidia. 2. Nautilus, Boston, Mass., **19**, 1906, (118-120).

Sterki, V. 2. Additional notes on *Bifidaria pentodon* and *B. tappaniana*. Nautilus, Boston, Mass., **19**, 1906, (131-135).

Sterki, V. 3. New species of *Pisidium*. Nautilus, Boston, Mass., **20**, 1906, (5-6).

Sterki, V. 4. On the pathology of *Sphaerium*. Nautilus, Boston, Mass., **20**, 1906, (11).

Sterki, V. 5. New species of *Pisidium*. Nautilus, Boston, Mass., **20**, 1906, (17-20).

Sterki, V. 6. *Sphaerium hendersoni* n. sp. Nautilus, Boston, Mass., **20**, 1906, (69-70).

Sterki, V. 7. New Pisidia. Nautilus, Boston, Mass., **20**, 1906, (87-89).

Sterki, V. 8. Bemerkungen zu *Vallonia excentrica* Sterki. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (166).

Sterki, V. 9. A few general notes with respect to the land and freshwater

Mollusca. Ohio Nat., Columbus, Ohio, **6**, 1906, (449-450).

Sterki, V. 10. Note on list of Ohio Mollusca, and a suggestion in regard to local faunal lists. Ohio Nat., Columbus, Ohio, **6**, 1906, (462).

Steusloff, Ulrich. Die Molluskenfauna Bütgow's nebst Beiträgen zur mecklenburgischen Molluskenfauna von C. Arndt†. Güstrow, Arch. Ver. Natg., **60**, 1906, (40-66).

Stobbs, John T. The value of fossil Mollusca in Coal-measure stratigraphy. Manchester, Trans. Geol. Soc., **29**, 1906, (323-344).

Stolley, E[rnst]. Ueber eine neue Ammoniten-Gattung aus dem oberen alpinen und mitteleuropäischen Lias. Braunschweig, Jahresber. Ver. Natw., **14**, 1906, (53-57).

Strebel, Hermann. Beiträge zur Kenntnis der Molluskenfauna der Magalhaen-Provinz. No. 4. Zool. Jahrb., Jena, Abt. f. Syst., **24**, 1906, (91-174, mit 7 Taf.).

Sturany, Rudolf. Ergebnisse einer naturwissenschaftlichen Reise zum Erdschias-Pagh (Kleinasien). Schalentragende Mollusken. Wien, Ann. Nat. Hist. Hofmus., **20**, 1905, (295-307). [Note: the so-called *spp. n.* already published in Anz. Ak. Wiss., 1904.]

Suter, Henry. Notes on N. Zeal. Mollusca with descriptions of new species. Wellington, Trans. N. Zeal. Inst., **38**, 1906, (316-333).

Suter, Henry *vide* Murdoch, R.

Swanton, E. W. 1. A Pocket Guide to the British Non-Marine Mollusca (including fossil forms which occur in the Post-Pliocene Deposits, excepting the forest Bed Series). Lockwood (C. Mosley), 1906, (134).

Swanton, G. [E.] W. 2. On the locality of the Melanotic *Helicigona arbustorum* exhibited November 10th. London, Proc. Malac. Soc., **7**, 1906 (5).

Swanton, E. W. 3. Destruction of Potatoes by Slugs. J. Conch., Leeds, **11**, 1906, (286).

Sykes, Ernest Ruthven. 1. A Pteropod Alias. London, Proc. Malac. Soc., **7**, 1906, (5).

Sykes, E. R. 2. On the Mollusca procured during the "Porcupine" Ex-

peditions, 1869-1870. Supplemental Notes, Part III. London, Proc. Malac. Soc., **7**, 1906, (173-190, pl. xvi).

Sykes, E. R. 3. On the dates of publication of Sowerby's "Mineral Conchology" and "Genera of Recent and Fossil Shells." London, Proc. Malac. Soc., **7**, 1906, (191-194).

Sykes, E. R. and Smith, Edgar Albert. Mollusca [Bibliography]. Zool. Rec., London, **42**, 1905, (86).

Taylor, John W[illiam]. 1. Monograph of the Land and Freshwater Mollusca of the British Isles. *Testacellidae, Limacidae, Arionidae.*, pt. 12 (pp. 225-80, 1-16, pls. xv, xxii, xxiii, xxv), Leeds (Taylor Bros.), 1906, June 15.

Taylor, J. W. 2. Notes on sinistral shells of *Limnea peregra*. Naturalist, London, **1906**, (114-115).

Taylor, J. W. *vide* Waterston, J.

Tesch, J. [Johan] J. [Jacob]. 1. Die Heteropoden der Siboga-Expedition. Rés. explor. Siboga, Leide. **51**, [livr. 29], 1906 (112, 14 pls.).

Tesch, J. J. 2. Systematisch overzicht van alle tot nu toe bekende Heteropoden. [Systematische Uebersicht aller bis jetzt bekannten Arten und Gattungen der Heteropoden]. Leiden (E. J. Brill), 1906, (47 mit Taf.). 33 cm. [Dutch title but German text.]

Thallwitz, J. *vide* Schorler, B.

Theiler, Alfred. Zur Anatomie und Histologie des Herzens von *Area*. Jenaische Zs. natw., **42**, 1906, (115-141).

Thévenin, Armand. 1. Note sur des fossiles de Madagascar recueillis par le Dr. Decorse. Bul. Muséum, Paris, **1906**, (334-6).

Thévenin, A. 2. Note sur des fossiles recueillis à Madagascar par M. Guillaume Grandidier. Bul. Muséum, Paris, **1906**, (336-8).

Thévenin, A. *vide* Boule, M.

Thiele, Joh[annes]. 1. *Archæomenia prisca* n. g., n. sp. (Wissensch. Ergebnisse d. D. Tiefsee-Expedition. Bd 9, Lfg 2.) Jena (G. Fischer), 1906, (315-324, mit 1 Taf.). 35 cm.

Thiele, J. 2. Ueber die Chitonen der deutschen Tiefsee-Expedition. (Wissensch. Ergebnisse d. D. Tiefsee-

Expedition, Bd 9, Lfg 2). Jena (G. Fischer), 1906, (325-336, mit 1 Taf.).

Thiele, J. 3. Note sur les Chitons de l'expédition antarctique du Dr. Charcot. Bul. Muséum, Paris, 12, 1906, (549-550).

Thiele, J. 4. Bemerkung über die Gattung *Photinula*. Frankfurt a. M., NachrBl. D. malakozool. Ges., 38, 1906, (12-15).

Thiele, J. 5. Zwei neue *Macrodonates* - Arten. Frankfurt a. M., NachrBl. D. malakozool. Ges., 38, 1906, (69-71).

Till, Alfred. Die Cephalopodengebisse aus dem schlesischen Neokom. (Versuch einer Monographie der Rhy-ncholithen). Wien, Jahrb. Geol. Reichs-Anst., 56, 1906, (89-154, mit 2 Taf.).

Tillier, L. et Bavay, A. Les Mollusques testacés du canal de Suez. Paris, Bul. soc. zool., 30, [1905-]1906, (170-181).

Tönniges, C. vide Otto, H.

Tokunaga, Shigeyasu. Fossils from the environs of Tokyo. Tokyo, J. Coll. Sci., 21, Art. 2, 1906, (1-26, with 6 pls.).

Toucas, A. Sur la classification et l'évolution des Radiolitidés. Paris, Bul. soc. geol., 5, 1905, (523-526).

[**Towarow, K.**] Товаровъ, К. За-метка о Симбирской Юрѣ и Неокомѣ. [Anmerkung über den Jura und Neokom des Gouv. Simbirsk.] Jurjev. Sitzb. Naturf. Ges., 14, 2, 1905, [1906], (115-153).

Townsend, F. W. vide Melvill, J. C.

Trabucco, G. Fossili, stratigrafia ed età dei terreni della Repubblica di S. Marino. Pisa, Proc. verb. soc. tosc. sc. nat., 16, 1906, (7-12).

Trechmann, C. T. *Limnaea peregrina* monst. *sinistrorsum*, in Durham. Naturalist, London, 1906, (113-111).

Ugolini, Riccardo. Monografia dei Pettinidi neogenici della Sardegna. Paleontogr. Italica, Pisa, 12, 1906, (155-206).

Uhlig, V. Einige Bemerkungen über die Ammoniten-Gattung *Hoplites* Neumayr. Wien, SitzBer. Ak. Wiss., 114, 1905, (591-636).

Uhlig, V. vide Prinz, G.

Upton, Charles. On a section of the Upper Lias at Stroud. Gloucester, Proc. Cotteswold Nat. F. Cl., 15, 1906, (201-207).

Ussher, W. A. E. vide Woodward, H. B.

Vadász, M. Elemér. Budapest-Rákoss felsőmediterránkorú faunája. [Über die obermediterrane Fauna von Budapest-Rákoss.] Földt. Közl., Budapest, 36, 1906, (323-351, mit Taf. X).

Vanatta, E. G. British Columbia shells. Nautilus, Boston, Mass., 20, 1906, (95).

Vanatta, E. G. vide Pilsbry, H. A.

Vanatta, E. G. and Pilsbry, Henry] A[ugustine]. On *Bifidaria pentodon* and its allies. Nautilus, Boston, Mass., 19, 1906, (121-128, with pl.).

Vayssiére, André. 1. Sur les Gastéropodes Nudibranches de l'expédition antarctique du Dr Charcot. Paris, C.-R. Acad. sci., 142, 1906, (718-719).

Vayssiére, A. 2. Note sur les *Cypræide* recueillies par M. L.-G. Seurat de 1902 à 1905 aux îles Tuamotu et Mangareva. Bul. Muséum, Paris, 1906, (115-119).

Vayssiére, A. 3. Diagnoses génériques des Mollusques gastéropodes nouveaux rapportés par l'expédition antarctique du Dr Charcot. Bul. Muséum, Paris, 1906, (147-149).

Vayssiére, A. 4. Note sur les Mollusques Testibranches recueillis dans le golfe d'Aden, à Djibouti, par M. Gravier en 1904. Bul. Muséum, Paris, 1906, (399).

Veitch, A. C. Age and type localities of the supposed Jurassic fossils collected north of Fort Bridger, Wyoming, by Frémont in 1843. Amer. J. Sci., New Haven, Conn., 21, 1906, (457-460).

Veneziani, Arnoldo. Colorazione positiva delle fibre nervose degenerate nel nervo tentacolare di *Helix pomatia*. Anat. Anz., Jena, 29, 1906, (241-248).

Verco, J. C. 1. Notes on South Australian marine mollusca, with descriptions of new species.—Part III. Adelaide, S. Aust., Trans. R. Soc., 30, 1906, (113-150).

Verco, J. C. 2. Notes on South Australian marine mollusca, with descriptions of new species. Adelaide, S.

Aust., Trans. R. Soc., **30**, 1906, (205-224).

Verrill, Addison E[mory]. The Bermuda islands. Part 4. Geology [concluded] and paleontology. Part 5. An account of the coral reefs. New Haven, Trans. Conn. Acad. Arts Sci., **12**, 1906, (141-300, with pl., text fig.).

Vessichelli, Nicola. Contribuzioni allo studio della *Phylliroë bucephala* Péron & Lesueur. Mitt. zool. Stat. Neapel, Berlin, **18**, 1906, (105-135, mit 2 Taf.).

Vidal, Luis Mariano y **Depéret**, Charles. Contribucion al estudio del Oligocene en Cataluña. Barcelona, Mem. R. Ac. Cs., **5**, 1906, No. 21.

Vigier, P. *vide* Pacaut, M.

Vinassa de Regny, Paolo e **Gortani**, Michele. Fossili carboniferi del M. Pizzul e del Piano di Lanza nelle Alpi Carniche. Roma, Bol. soc. geol. Ital., **24**, 1905, (460-605), pls. xii-xv.

Vlès, Fred. **1**. Mécanisme de la nage du *Pecten*. Paris, C.-R. Acad. sci., **143**, 1906, (611-613, av. fig.).

Vlès, Fred. **2**. Notes sur la locomotion du *Pectunculus glycymeris* Lk. Paris, Bull. Soc. Zool., **28**, 1906, [? 1907], (114-117).

Vlès, Fréd. *vide* Blatin, M.

Waagen, L[ucas]. **1**. Ueber die Lamellibranchiaten der Frombachtaffe nebst Bemerkungen über deren verwandtschaftliche Beziehungen. Wien, Verh. Geol. RchsAnst., **1906**, (385-395).

Waagen, Lukas. **2**. Die systematische Stellung und Reduktion des Schlosses von *Ætheria* nebst Bemerkungen über *Clessinella sturanyi* nov. subgen., nov. spec. Wien, Sitzber. Ak. Wiss., **114**, 1905, (153-182).

Wagner, Anton. **1**. Neue Formen und Fundorte der Genera *Pomatias* Studer und *Auritus* Westerlund. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (92-101, 121-140, mit 2 Taf.).

Wagner, A. **2**. Bemerkungen zum Genus *Daudebardia* Hartmann. Frankfurt a. M., Nachrbl. D. Malakozool. Ges., **38**, 1906, (177-186).

Walcott, Charles D. [Doolittle]. **1**. Cambrian Faunas of China. Washington,

D.C., Smithsonian Inst., Nation. Mus. Proc., **29**, (1-106).

Walcott, C. D. **2**. Cambrian faunas of China. [Preliminary paper No. 2.] Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, 1906, (563-595).

Walker, Bryant. **1**. New and little known species of *Amnicolidae*. Nautilus, Boston, Mass., **19**, 1906, (97-100, with pl.).

Walker, Bryant. **2**. New and little known species of *Amnicolidae*. Nautilus, Boston, Mass., **19**, 1906, (414-417).

Walker, B. **3**. Notes on *Valvata*. Nautilus, Boston, Mass., **20**, 1906, (25-32, with pl.).

Walker, B. **4**. A list of shells from Nebraska. Nautilus, Boston, Mass., **20**, 1906, (81-83).

Walker, B. **5**. An illustrated catalogue of the Mollusca of Michigan. Michigan, Rep. Geol. Surv., Lansing, **1905**, 1906, (427-531, with map, text fig., fold pl.).

Walker, B. **6**. Recent progress in Michigan conchology. Bull. Mich. Acad. Sci., Agricultural College, **2**, No. 2, 1905, (3-7).

Walker, B. *vide* Pilsbry, H. A.

Walker, Bryant & **Ruthven**, A. G. Annotated list of the Mollusca of the Porcupine mountains and Isle Royale, Michigan. Michigan, Rep. Geol. Surv., Lansing, **1905**, 1906, (93-99).

Wallengren, Hans. **1**. Zur Biologie der Muscheln. I. Die Wasserströmungen. Lund, Univ. Åarskr., ser. 2, **1**, 1905, No. 2, (1-64).

Wallengren, H. **2**. Zur Biologie der Muscheln. II. Die Nahrungsaufnahme. Lund, Univ. Åarskr., ser. 2, **1**, 1905, No. 3, (1-59).

Walter, Herbert E. The behavior of the pond snail *Lymnaea elodes* Say. Brooklyn, N.Y., Inst. Arts. Sci., Cold Spring Harbor Monog., No. **6**, 1906, (1-35). 24.5 cm.

Wanderer, Karl. Die Jura-Ablagerungen am Westrande des Bayrischen Waldes zwischen Regenstauf und der Bodenwöhrerbucht. N. Jahrb. Min., Stuttgart, **21**, Suppl., 1906, (468-539, pls. xxxi-xxxii).

Ward, John. Palaeontology of the Cheadle Coalfield. Stafford, Rep. N. Staff. F. Cl., **40**, 1906, (102-137).

Warner, Thomas L. *Helix nemoralis* and *H. arbustorum* in North West Lincolnshire. Naturalist, London, **1906**, (239).

Waterston [Waterston], James. Land Shells at Balelone, N. Uist, Outer Hebrides. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (55).

Waterston, James & Taylor, J. W. Land and freshwater Molluscs of St. Kilda. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (21-24).

Watson, D. M. S. *Anthracomys* in the Radstock Coal Measures. Geol. Mag., London, **3**, 1906, (336).

Weber, A. Eine neue *Nanina* von der Insel Banka. Frankfurt a. M. NachrBl. D. malakozool. Ges., **38**, 1906, (161-165).

Webster, Clement L. Description of new species of gastropods from the Lower and Middle beds of the Hackberry group of Iowa. Iowa Nat., [Iowa City, Iowa], **2**, 1906, (2-4). Separate. 23 cm.

Webster, W. H. 1. Results of Dredging on the Continental Shelf of New Zealand. Wellington, Trans. N. Zeal. Inst., **38**, 1906, (305-308).

Webster, W. H. 2. Additions to the New Zealand Fauna. Wellington, Trans. N. Zeal. Inst., **38**, 1906, (309-312).

Wegelin, H. Mollusken der Lehm-lager in Thurtal. Mitt. Thurg. Natf. Ges., **15**, 1902.

Weiss, Arthur. 1. Nachtrag zu der Aufzählung der (im Balatonsee und in dessen Umgebung vorkommenden) lebenden Weichthieren (Mollusken). Result. wiss. Erforsch. Balatonsees, **2**, pt. 1, suppl., Wien (E. Hölzel), **1906**, (1-28).

Weiss, A. 2. Beiträge zur pleistocänen, alluvialen und recenten Conchylienfauna der Umgebung von Gera (Reuss). Gera, Jahresber. Ges. Natw., **46-48** (1903-1905), 1906, (115-116).

Welch, R[obert John]. 1. The land and freshwater Mollusca of North West Donegal. Irish Nat., Dublin, **15**, 1906, (67-70).

(N-9720 r)

Welch, R. 2. Land and freshwater Mollusca from Co. Roscommon. Irish Nat., Dublin, **15**, 1906, (76).

Welch, R. 3. *Buccinum* and *Patella* Kjökkenmødding at Cranfield, Co. Down. Irish Nat., Dublin, **15**, 1906, (109).

Weller, Stuart. 1. The fauna of the Cliffwood (N.J.) Clays. J. Geol., Chicago, Ill., **13**, 1905, (324-337).

Weller, S. 2. Kinderhook faunal studies. 4. The fauna of the Glen Park limestone. St. Louis, Mo., Trans. Acad. Sci., **16**, 1906, (435-471, with pl.).

Werner, Max A. Corpus epitheliale und Linse. Ein Beitrag zur Kenntnis des dibranchiaten Cephalopodenanges. [Diss.] Halle a. S. (L. Mosche), **1904**, (37). 21 cm.

Whiteaves, J. F. 1. Preliminary list of fossils from the Silurian rocks of the Ekwan River and Sutton Mill Lakes, Keewatin. . . . Rep. Geol. Surv. Can., Ottawa, **14**, 1905, (33 F-59 F).

Whiteaves, J. F. 2. The fossils of the Silurian rocks of Keewatin, Manitoba, the north-eastern shore of Lake Winnipegosis and the Lower Saskatchewan River. Ottawa, Geol. Surv. Canada, Pal. Fossils, **3**, (243-298).

Whiteaves, J. F. 3. The Canadian species of *Plectoceras* and *Barrandoceras*. Ottawa, Geol. Surv. Canada, Pal. Fossils, **3**, 1906, (299-312).

Whiteaves, J. F. 4. Illustrations of seven species of fossils from the Cambrian, Cambro-Silurian, and Devonian rocks of Canada. Ottawa, Geol. Surv. Canada, Pal. Fossils, **3**, (313-325).

Whiteaves, J. F. 5. Revised list of the fossils of the Guelph formation of Ontario. Ottawa, Geol. Surv. Canada, Pal. Fossils, **3**, (327-340).

Whiteaves, J. F. 6. Notes on the apical end of the Siphuncle in some Canadian *Endoceratida*, with descriptions of two supposed new species of *Nanno*. Amer. Geol., Minneapolis, Minn., **35**, 1905, (23-30).

Whiteaves, J. F. 7. Notes on *Cyrtoceras cuneatum*. Ottawa Nat., **20**, 1906, (133-134).

Whiteaves, J. F. 8. List of some fresh-water shells from North-western

Ontario and Keewatin. Ottawa Nat., **20**, 1906, (29-32).

Whiteaves, J. F. **9**. Notes on some land and fresh-water shells from British Columbia. Ottawa Nat., **20**, 1906 (115-119).

Whitfield, R. P. Notes on some Jurassic fossils from Franz Josef land, brought by a member of the Ziegler Exploring Expedition. New York, N.Y., Bull. Amer. Mus. Nat., Hist., **22**, 1906, (131-134).

Whitfield, R. P. & **Hovey**, E. O. Remarks on and descriptions of Jurassic fossils of the Black Hills. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, 1906, (389-402).

Wichand, Bernh. Beobachtungen beim Fortpflanzungsgeschäft einer *Anodonta mutabilis* Cless. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (348-342, 356-357).

Willcox, M[ary] A[lice]. Anatomy of *Acmaea testudinalis* Müller. Part 1. Introductory material-external anatomy. Amer. Nat., Boston, Mass., **40**, 1906, (171-187, with text fig.).

Williamson, M. Burton. West American *Mitridæ*—North of Cape St. Lucas, Lower California. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (193-197).

Wilschowitz, Hans. Beitrag zur Kenntnis der Kreide-Ablagerungen von Budigsdorf und Umgebung. Wien, Beitr. Pal. Geol. Oest-Ung., **19**, 1906, (125-134).

Wilson, J. Howard. **1**. The Pleistocene formations of Sankaty Head, Nantucket. J. Geol., Chicago, Ill., **13**, 1905, (713-734).

Wilson, J. H. **2**. Deposit of *Venus* shells in New York city. Science, New York, N.Y., N. Ser., **23**, 1906, (821-822).

Winkley, Henry W. *Paludestrina salsa*, Pils. Nautilus, Boston, Mass., **19**, 1906, (107).

Winter, Gertrud, *vide* Möllendorf, O. F. von.

Wiśniowski, T. Über die Fauna der Spasser Schiefer und das Alter des Massigen Sandsteins in den Ost-Karpaten Galiziens. Krakow, Bull. Intern. Acad., **1906**, (240-254).

Wobick, C. Molluskenfauna auf dem Domfelsen in der Stromelbe zu Magdeburg. Magdeburg, Abh. & Ber. Mus., **1**, 1906, (185-187).

Wodzińska - Węgrzynowiczowa, J. Teorye, dotyczące asymetrii ślimaków. [Les théories de l'asymétrie chez les Gastéropodes.] Wszechświat, Warszawa, **25**, 1906, (554-556).

Wohlberedt, Otto. Zur Molluskenfauna von Montenegro. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (109-111).

Wollemann, A. [August] **1**. Alte und neue Aufschlüsse im Flammenmergel, Variansplänen und Turon in der Umgegend von Braunschweig. Braunschweig, Jahresber. Ver. Natw., **14**, 1906, (96-99).

Wollemann, A. **2**. *Belemnites ultimus*, D'Orb. und andere Versteinerungen aus der Kreideformation von Misburg bei Hannover. Berlin, Zs. D. geol. Ges., **57**, 1905, Briefl. Mitt., (265-267).

Wollemann, A. **3**. Einige Bemerkungen über die Fauna des Lüneburger Miocäns. Berlin, Zs. D. geol. Ges., **58**, 1906, Briefl. Mitt., (19-22).

Wollemann, A. **4**. *Mortoniceeras pseudotexanum* Grossouvre aus dem Emscher Lüneburgs. Centralbl. Min., Stuttgart, **1906**, (379).

Wollemann, August *vide* Müller, G.

Woods, Henry. **1**. A monograph of the Cretaceous Lamellibranchia of England. London, Monogr. Paleont. Soc., **2**, pt. 3, 1906, (97-132).

Woods, H. **2**. The Cretaceous Fauna of Pondoland. Cape Town, Ann. S. Afric. Mus., **4**, pt. 7, 1906, (287-350).

Woodward, B[ernard] B[arham]. **1**. On the dates of publication of C. L. F. von Sandberger's "Die Land- und Süßwasser-Conchylien der Vorwelt," 4to, Wiesbaden (C. W. Kreidel), 1870-75. London, Proc. Malac. Soc., **7**, 1906, (3).

Woodward, B. B. **2**. On the dates of publication of J. D. Wilhelm Hartmann's "Erd- und Süßwasser-Gastropoden," 8vo, St. Gallen, 1840. London, Proc. Malac. Soc., **7**, 1906, (3).

Woodward, B. B. 3. Cement as a Slug-Killer. London, Proc. Malac. Soc., **7**, 1906, (3-4), fig.

Woodward, B. B. 4. On some "feeding-tracks" of Gastropods. London, Proc. Malac. Soc., **7**, 1906, (31-33), figg.

Woodward, B. B. vide Kennard, A. S.

Woodward, H. [Horace] B. and Ussher, W. A. E. The Geology of the Country near Sidmouth and Lyme Regis. Mem. Geol. Surv. U. K., London, **110**, 1906, (96 pp.).

Wüst, Ewald. 1. Ueber *Helix* (*Vallonia*) *saxoniana* Sterki. Frankfurt a. M., NachrBl. D. malakozool. Ges., **38**, 1906, (206).

Wüst, E. 2. Die Verbreitung von *Helix* (*Vallonia*) *excentrica* Sterki. Frankfurt a. M., NachrBl. malakozool. Ges., **38**, 1906, (218-219).

Želízko, J[an] V[ratislav]. 1. Geologicko-palaeontologické poměry nejbližšího okolí Rožmitálu. Prag, Rozpr. České Ak. Frant. Jos., ser. 2, **15**, 1906, Nr. 42, (1-27).

Želízko, J[an] V[ratislav]. 2. Ueber das erste Vorkommen von *Conularia* in den Krušná Hora-Schichten (D—d, α) in Böhmen. Wien, Verh. Geol. Reichsanst., **1906**, (127-130).

Ziegeler, Mathilde. 1. Etwas über Deckelschnecken. Wochenschr. Aquarienkunde, Braunschweig, **3**, 1906, (95-97).

Ziegeler, M. 2. *Paludina pyramidalis*. Wochenschr. Aquarienkunde, Braunschweig, **3**, 1906, (221).

Ziegeler, M. 3. Die rote Posthornschnecke und ihre Zucht. Wochenschr. Aquarienkunde, Braunschweig, **3**, 1906, (296-297).

Ziegeler, M. 4. Die rote Posthornschnecke. [Entstehung des Albinismus bei *Planorbis*.] Bl. Aquarienkunde, Magdeburg, **17**, 1906, (70).

Zittel, Karl A. von, obituary, vide Dollfus, G. F.

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General Treatises.

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Orkney Is., landshells; **Godfrey.**

St. Kilda, land and freshwater shells; **Waterston & Taylor.**

N. Uist, Landshells; **Waterston.**

Perth, *Milax gagates*, var.; **Evans.**

Berwick, fauna of Galashiels; **Roseburgh.**

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Helix limbata, distribution; **Giard, 2.**

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Belgrandia lafayi sp. n.; **Caziot in Lafay.**

Brittany, notes on fauna; **Germain, 6, 7.**

Pas-de-Calais, acclimatisation of *Helix acuta*; **Giard, 1.**

Pas-de-Calais and Nord, note on introduced *Helix*; **Giard, 3.**

S. France, notes on landshells; **Caziot, 2, 3.**

S. France, occurrence of Asiatic forms; **Caziot, 1.**

Nice, fauna; **Caziot, 4.**

Nîmes, freshwater shells; **Béranguier.**

Basses Pyrénées, fauna of the Grotte de Camon; **Jeannel.**

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Aragon, few shells; *Pupa* sp. n.; **Navas.**

Aragon, *Helix*, *Testacella* spp. n.; **Fagot.**

Aragon, shells from near Zaragoza; **Marcet.**

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Zospeum sp. n.; **Pollonera, 2.**

Genoa, *Aeme layoni* sp. n.; **Pollonera, 1.**

Elba and Pianosa, fauna; *Clausilia*, *Ferussacia*, *Xerophila* spp. n.; **Pollonera, 1.**

Sardinia, note on slugs; **Simroth, 2.**

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Lake Zurich, *Paludina*; **Roth, 2, 3, 4.**

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Tyrol, fauna of St. Jodok a. Brenner; **Blume, 2.**

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Hungary, Land and freshwater Mollusca from the vicinity of the Balatonsee; **Kormos, 1; Weiss, 1.**

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Croatia, *Buliminus*, *Neritina*, *Pomatia*, *Xerophila* spp. and subspp. n.; **Kormos, 3.**

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Roumania, fauna; **Montandon.**

Montenegro, notes on fauna; **Wohlbereit; Petrbok.**

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Arabian Peninsula, fauna ; **Ancey**, 2, 3.

India, *Glessula*, list with spp. n. ; **Beddome**.

Ceylon, *Glessula*, list with spp. n. ; **Beddome**.

Indo-China and Yunnan, fauna ; *Ampullaria*, *Buliminus*, *Cancena*, *Clausilia*, *Cyclophorus*, *Diplommatina*, *Ennea*, *Helix*, *Macrochlamys*, *Margarya*, *Melania*, *Opisthostoma*, *Paludina*, *Pupina*, *Rhiostoma*, *Satsuma*, *Unio*, *Xestina* spp. and varr. n. ; **Dautzenberg** & **Fischer**, 1.

Yunnan, *Unio tauriformis* sp. n. ; **Fulton**, 3.

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China, *Kaliella* sp. n. Hupe ; **Fulton**, 4.

China, *Sitala*, sp. n. ; **Pilsbry**, 6.

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Formosa, fauna ; *Alycaeus*, *Blanfordia*, *Cyathopoma*, *Cyelotus*, *Diplommatina*, *Ennea*, *Eulota*, *Ganesella*, *Helicarion*, *Japonia*, *Kaliella*, *Macrochlamys*, *Microcystina*, *Nodularia*, *Palaina*, *Pseudopomatias*, *Punctum*, *Sitala*, *Trochomorpha* spp. and varr. n. ; **Pilsbry**, 2.

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Banka I., *Nanina hagenae* sp. n. ; **Weber**.

Burn I., *Chloritis* var. n. ; **Gude**, 1.

Halmahera, *Planispira eingarus* sp. n. ; **Fulton**, 4.

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Sumatra, *Cyclophorus*, *Limnea*, *Melania*, *Unio*, *Xesta* spp. and varr. n., etc. ; **Bullen**, 1.

Sumatra, *Clausilia*, *Planorbis*, *Pterocyclus*, *Segmentina* spp. n. ; **Bullen**, 2.

Sumatra, *Chloritis* spp. n. ; **Gude**, 2.

Tenimber I., *Helicina* spp. n. ; **Ancey**, 7.

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Equatorial Africa, fauna, *Limicolaria*, *Unio*, *Vivipara*, etc., varr. n. ; **Germain**, 4.

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C. Africa, *Ampullaria*, *Corbicula*, *Lanistes*, *Limnea*, *Physa*, *Trochonanina* spp. n., etc. ; **Germain**, 1.

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British Central Africa, *Cleopatra* sp. n. ; **Ancey**, 8.

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Congo, *Ætheria* (*Clessinella* subgen. n.) *sturanyi* sp. n. ; **Waagen**, 2.

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British Columbia, notes on shells; **Whiteaves**, 9; **Vanatta**.

Canada, distribution of *Helix hortensis*; **Johnson**, 2, 3.

Canada, Anticosti I., fauna; **Schmitt**.

Canada, shells from N.W. Ontario; **Whiteaves**, 8.

Newfoundland, *Helix hortensis*; **Cockerell**, 3.

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New England, Unionidæ; **Davis**, 2.

United States, fauna of S.W. States; *Amnicola*, *Bifidaria*, *Bulinulus*, *Cochliopa*, *Goniobasis*, *Helicodiscus*, *Lymnaea*, *Paludetrina*, *Pisidium*, *Planorbis*, *Polygyra*, *Pyramidula*, *Radiodiscus* (gen. n.), *Strobilops*, *Valvata*, *Vitrea* spp. and varr. n.; **Pilsbry** & **Ferriss**.

United States, Alabama, *Amphigyra* (gen. n.), *Neoplanorbis* (gen. n.) spp. n.; **Pilsbry**, 11.

United States, California, *Cochliopa rowelli*; **Rowell**.

United States, Colorado, *Sphaerium* sp. n.; **Sterki**, 6.

United States, Connecticut, *Paludetrina salsa*, at Branford; **Winkley**.

United States, Florida, species of *Drymaeus*; **Simpson**.

United States, Florida, collecting in the Everglades; **Reynolds**.

United States, Nebraska, list of shells; **Walker**, 4.

United States, New Mexico, shells of Grant, Valencia Co.; **Pilsbry**, 5.

United States, New York, shells of Richfield Springs; **Smith**, M.

United States, Ohio, fauna; **Sterki**, 9, 10.

United States, Oklahoma, fauna; **Ferriss**.

United States, Idaho, *Lymnaea* sp. n.; **Baker**, 4.

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United States, Illinois, *Planorbis nautilius*; **Baker**, 6.

United States, Illinois, *Sphaerium stamineum* var. n.; **Baker**, 7.

United States, Indiana, notes on Unionidæ; **Headlee**.

United States, Indiana, *Lymnaea* sp. n.; **Baker**, 5.

United States, Kansas, Unionidæ; **Scammon**.

United States, Michigan, Molluscs of Porcupine Mountains; **Walker** & **Ruthven**.

United States, Michigan, fauna; **Walker**, 5, 6.

United States, Michigan, shells from Alpena; *Lymnaea* sp. n.; **Baker**, 3.

United States, Mississippi and Alabama, shells from; **Hinkley**.

United States, Wisconsin; fauna; **Chadwick**, 1, 2.

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Colombia, *Drymaeus* spp. n.; **Da Costa**, 1.

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Brazil, *Maerodontes* spp. n. **Thiele**, 5.

Peru, *Amphicyclotus*, *Neocyclotus*, spp. n. ; **Da Costa**, 1.

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New Ireland, *Chloritis* spp. n. ; **Gude**, 1, 2.

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Queensland, *Chloritis* spp. n. ; **Gude**, 2.

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Hawaiian Is., *Sphyradium* spp. n. ; **Pilsbry** & **Cooke**.

Hawaiian Is., *Achatinellidae* of Molo-kai ; *Achatinellastrum*, *Laminella* spp. n. ; **Borcherding**.

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Kerguelen, occurrence of *Patula Hookeri* ; **Richters** in **Drygalski**. Deutsche Südpolar-Exped., 10, Zool., Berlin (G. Reimer) 1906, (298).

(b) FOSSIL.

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Types of D'Orbigny's "Prodr. Paléont. strat. univ." reviewed and figured ; **Boule** & **Thevenin**.

Summary of geological range of Mollusca ; **Plant**.

England, fossils of Macclesfield, &c. ; **Pocock**.

England, fossils of Sidmouth and Lyme Regis ; **Woodward** & **Ussher**.

France, fauna of environs of Nîmes ; **Roman**.

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United States, paleontology of Schoharie Valley, New York ; **Grabau**.

United States, fossils from the Big-horn Basin, Wyoming ; **Fisher**.

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France, Alpes Maritimes, fauna; *Helix*, *Hyalina*, *Testacella* spp. n.; **Maury & Caziot**, 2.

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N. America, Loess, *Helicina occulta*; **Shimek**.

Canada, marine and fresh-water fauna Anticosti I.; **Schmitt**.

United States, Colorado, fauna of Florissant; *Lymnaea*, *Omphalina*, *Sphaerium* spp. n.; **Cockerell** 1.

United States, Maryland, fauna; **Clark**.

United States, New Mexico, *Oreohelix yarapai*; **Cockerell**, 2.

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Europe, Upper Tertiary fauna of Mediterranean region; **Hoernes**, 1.

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Russia, Miocene fossils from Novocherkassk; *Pholas*, *Tapes*, *Turritella* spp. n.; **Bogatchew**.

Germany, list of shells from Kassel; **Hornstein**.

Germany, few Miocene fossils from near Domitz; **Metzmacher**.

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Germany, Middle Oligocene fossils from Kreuznach; **Delkeskamp**.

Netherlands, Upper Oligocene fossils from Tégelen; **Dubois**.

England, shells from Woolwich and Reading Beds, New Cross, London; **Robarts**.

France, lists of fossils from the Paris Basin with critical notes; *Planorbis*, *Limnea*, sp. n.; **Dollfus**, 2 (23-4).

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France, fauna near Biarritz; *Cyprædia*, *Cytherea*, *Diastoma*, *Entritonium*, *Gibbula*, *Marginella*, *Metula*, *Mitra*, *Nassa*, *Pleurotoma*, *Streptocheilus*, *Sycum*, *Syrnola* spp. n.; **Oppenheim**, 2.

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France, Middle Miocene Pelecypoda from the Loire Basin; **Dollfus & Dautzenberg**.

France, Redonian fauna of Gourbesville; **Dollfus**, 1.

Spain, Oligocene fossils of Cataluna; **Vidal & Deperet**.

Italy, Middle Miocene fauna near Turin; **Bellini**.

Italy, fauna of Piedmont; **Sacco**.

Italy, Eocene fossils from Monte Postale; *Vicetia* gen. n.; **Fabiani**.

Italy, Rognacian fauna of Castigno; **Miquel**.

Italy, fossils from the Trasimeno basin; **Ristori**.

San Marino, fauna; **Trabucco**.

San Marino, Miocene fossils from Monte Titano; **Nelli**.

Sardinia; Pectinidae, *Aequipecten*, *Chlamys*, *Flexipecten*, *Gigantopecten*, *Inaequipecten* (gen. n.) spp. n.; **Ugolini**.

Hungary, Miocene fauna of Kosteĵ; *Cancellaria*, *Chenopus*, *Clathurella*, *Columbella*, *Coralliophila*, *Daphnella*, *Drillia*, *Fusus*, *Haedropleura*, *Leptocoelchus*, *Mangilia*, *Mieraelis* (gen. n.), *Mitra*, *Murex*, *Nassa*, *Natica*, *Parri-fusus*, *Peratotoma*, *Pliciscala*, *Polliia*, *Pseudotoma*, *Rhaphitoma*, *Scala*, *Surecula*, *Terebra* spp. and var. n.; **Boettger**, O. 1.

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Galicia, Miocene fossils from Lemberg; **Łomnicki**.

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C. Asia and China, land and fresh-water shells; *Limnaeus*, *Planorbis*, *Valvata* spp. n.; **Schlosser**.

Japan, fossils from near Tokyo, with numerous figures; **Tokunaga**.

Philippine Is.; *Area*, *Drillia*, *Macoma*, *Nerita*, *Pteropsis*, *Semele*, *Strombus*, *Tapes*, *Vicarya* spp. n., etc.; **Smith**, W. D., 2.

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United States, Oregon, fauna of the John Day and Marshall beds, spp. n.; **Stearns**.

United States, Texas, few Miocene shells; **Dumble**.

Mexico, fauna; *Cominella*, *Conus*, *Dalium* (sic), *Dentalium*, *Limopsis*, *Marginella*, *Oliva*, *Pecten*, *Phos*, *Pleurotoma*, *Sigaretus*, *Solarium*, *Trophon*, *Turritella*, *Venus*, *Vermetus* spp. n.; **Böse**, 1.

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Russia, Gouv. Simbirsk, Jurassic and Neocomian fossils; **Towarow**.

Germany, fossils from near Freiburg; **Seidlitz**.

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Bithinia v. *Bythinia*.—*B. tentaculata*, nervous system, AEBERHARDT, Bern, Mitt. Naturf. Ges. 1905 (117-9).

Bittium v. *Cerithium*.—*B. fuscocapitulum* sp. n. off Sydney 300 f., HEDLEY & PETTERD, Sydney N.S.W. Rec. Austr. Mus. 6 (217).

Blanfordia formosana sp. n. Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. 57 (750).

†*Bonellitia* v. *Cancellaria*.

Boreotrophon v. *Trophon*.

†*Broechinia parvula* (Beyr.) var. *bicarinata* Hö. Au., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (51).

†*Bucania catilloides* sp. n., RAYMOND, Pittsburgh, Pa., Ann. Carnegie Mus. 3.

Buccinanops globulosum var. n. *elata*, STREBEL, Zool. Jahrb., Syst. 24.

Buccinum undatum, Trematode parasites; *Cercaria giardi* sp. n. (170-1) PELSENER, 3.

Bullia cinerea sp. n. Ceylon (?). PRESTON, London, Proc. Malac. Soc. 7 (34).—*B. ancillaeformis* sp. n. South Africa, SMITH, Ann. Natal Govt. Mus., 1 (37).

Bursa (Lampas) ranelloides Rve. var. n. *tenuisculpta*, Azores and Madeira, DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. 32 (36-7).

Bythinia v. *Bithinia*.

†*Bythinia* (?) *cholnoky* sp. n. China, ob. Tertiär (391), SCHLOSSER, Ann. Hist.-Nat. Mus. Nat. Hung., 4.

†*Bythiospeum obermaieri* sp. n. Post-Tertiary, France, BABOR, Amiens, Bull. Soc. linn. 18 (32).

Bythoceras iridescens Moore (182), *minor* Moore (182) L. Tanganyika, figd., SMITH, London, Proc. Zool. Soc. 1906.

Calliostoma admirandum sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. 18 (246).—*C. bisculptum* sp. n. South Africa SMITH, Ann. Natal Govt. Mus. 1 (54).—*C. grimaldii* Dautz. & Fisch. is a var. of *C. triporecatum* P. Fisch., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. 32 (59-60).—*C. (Leiotrochus) marionae* sp. n. Florida, DALL, Nautilus 19 (131-2).—*C. conuloides* Lamarck varr. n. *cincraseens*, *subconcolor*, *violaceescens*, DAUTZENBERG & DUROUCHOUX, Feuille jeunes Natural. 36.

†*Calliostoma novatum* Desh., Eocene, Monte Postale, figd., FABIANI, Padova, Atti. Oc. Ven. Trent. 2 (117).

†*Callithea* v. *Turricula*.

Callogaza v. *Gaza*.

†*Campanile* v. *Cerithium*.

Cancellaria scobina **sp. n.** off Sydney 300 fath., HEDLEY & PETERD, Sydney, N.S.W., Rec. Austr. Mus. **6** (222).—*C. (Sceltia) lyrata* Brocchi, occurrence of a recent specimen near Maio I., C. Verd Is., figd., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (17-8).

†*Cancellaria meridionalis* **sp. n.** Cretaceous, Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. **4**, (326).—*C. (Bonellitia) aegyptiaca* **sp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (331).—*C. succiniformis* **sp. n.**, *ampullacea* Brocc., *brandenburgi* Bttgr., *calcarata* Brocc., *gestini* (Bast) var. *compressohirta* Sacco., *hoernesii* Kittl., *lyrata* Brocc., *subcancellata* d'Orb., *varicosa* Brocc., Miocän, Ungarn., BOETTGER, Verh. siebenb. Ver. Naturw. **54** (49-51).

†*Cancilla* v. *Mitra*.

†*Cantharus* (?) *Pollia* *hanthkeni* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (174-5).

Capulus lissus Smith, and allies, notes on, MELVILL, London Proc. Malac. Soc. **7** (81).

Cassidaria rugosa, anatomy, REYNELL, London Proc. Malac. Soc. **7** (67).

†*Cassis aegyptiaca* **sp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (307-8).—*C. postalensis* Oppenh., Eocene, Monte Postale, figd., FABIANI, Padova, Atti. Ac. Ven. Trent. **2** (156).

†*Caziotia* **gen. n.** for *C. singularis* **sp. n.** Post Tertiary, Alpes Maritimes, POLLONERA, Torino. Boll. Musei Zool. anal. **20** No. 517 (2).

Ceratia v. *Rissoia*.

Cerithidea sacrata **var. n.** *hyporhyssa* California, BERRY, Nautilus **19** (133).

Cerithiopsis cacuminatus **sp. n.** off Sydney 300 f., HEDLEY & PETERD, Sydney, N.S.W., Rec. Austr. Mus. **6** (218).—*C. cessicius* **sp. n.** (= *Bittium minimum* Ten. Woods not *Cerithiopsis minima* Brusina), HEDLEY, Sydney, N.S.W. Proc. Linn. Soc. **30** (529).—*C. chapmaniana*, *insignis* **spp. n.** South Africa, SMITH, Ann. Natal Govt. Mus. **1** (45).—*Cerithiopsis mathildaeformis* **sp. n.** Gulf of Oran, MELVILL, London, Proc. Malac. Soc. **7** (71).

Cerithium charcoti, **sp. n.** Antarctic, LAMY, Bul. Museum, Paris **11** (477).—*Cerithium coyi*, *nesioticum* **spp. n.** Pacific

Isles, PILSBRY & VANATTA, Philadelphia, Pa., Proc. Acad. Nat. Sci. **57** (787).

†*Cerithium*, ASCHER, Wien., Beitr. Pal. Geol. OestUng. **19** (135).—*C. liberorum* (156-7), *trilinum* (158-9), *detrectatum* (159-60), (*Campanile*) *regens* **spp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52**.—*C. nipporiensis* (24), *tabatensis* (25) **spp. n.** Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. **21**.—*C. praecursor* (25-6), *steinmanni* (27), *stoliskai* (27), (*Pyrenella*) *sanctae-balmae* (26) **spp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10**.—*C. subearnaticum*, *potosianum*, *aguilerac*, *cuauhtemoci* **spp. n.** Senonian, Cardenas, Mexico, BÖSE, Mexico, Bol. Inst. geol. **24** (67-73).—*C. (Potamides) vadiphilum* (282), *fajumensis* (283), *susannae* (283-4), *apisidis* (285), (*Bittium*) *niloticum* (285-6), (*Sandbergeria*) *saharae* (286-7) **spp. n.** Tertiary, Egypt, OPPENHEIM, Palaeontographica **30**.—*C. del-lagoi* Oppenh. Eocene, Monte Postale, figd., FABIANI, Padova, Atti Ac. Ven. Trent **2** (149).

Chemnitzia v. *Turbonilla*.

†*Chemnitzia eucosmeta*, *orthoptylcha*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).

†*Chenopus* (*Aporrhais*) *praeteritus* **sp. n.** Miocän, Ungarn. BOETTGER, Verh. siebenb. Ver. Naturw. **54** (37-8).

Chrysallida v. *Odostomia*.

Chrysodomus arnoldi, *merriami*, **spp. n.**, RIVERS, Los Angeles, Bull. So. Cal. Acad. Sci. **3** (63-72).—*C. hoernesii* (Bell.), Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (30).

Cingulina v. *Pyramidella*.—*C. diaphana* **sp. n.** South Australia, VESCO, Adelaide, S. Aust., Trans. R. Soc. **30** (143).

†*Cirsochilus* v. *Collonia*.

Cirsonella granum **sp. n.** N. Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38** (300).

Cirsotrema v. *Scalaria*.

†*Clathroscala lanceolata* (Brocc.); *prolanceolata* Sacco, Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **57** (98).

Clathurella marshalli (186) **sp. n.** European seas, *pseudohystrix* (187) **n. n.**

for *C. hystrix* Auct. non Jan., SYKES, London, Proc. Malac. Soc. 7.

†*Clathurella easilorica, densestriata, postuma* spp. n. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (68).

†*Clavatula emmae* Hö. Au., *juliae* Hö. Au., *rosaliae* Hö. Au., *sabiniae* Hö. Au., *semimarginata* (Imk.), *veronieae* Hö. Au., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (62-3).

†*Clavella* v. *Fusus*.

Cleopatra multilirata Madagascar, *smithi* British Central Africa, spp. n. ANCEY, Nautilus 20 (45).

Clionella v. *Pleurotoma*.—*C. confusa* sp. n. South Africa, SMITH, Ann. Natal Govt. Mus. 1 (23).

Cochliopa riograndensis sp. n. S.W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. 58.

†*Collonia* v. *Turbo*.—*C. (Cirsochilus?) grandis* sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica 30 (218).

Columbella daemona (308), *compta* (308) spp. n. New Zealand, WEBSTER, Wellington, Trans. New Zeal. Inst. 38.—*C. (Anaehis) richardi* sp. n. off N.W. Africa, DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. 32 (28).—*C. (Seminella) comitea* sp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. 7 (75).—*C. inconstans* (= *Sureula varians* Suter), *pseutes* (= *Pyramidella rosea*) spp. n., SUTER, Wellington, Trans. N. Zeal. Inst. 38 (329).—*C. suavis* sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. 18 (171).

†*Columbella ikei* (317-8), (*Conidea*) *pamotanensis* (318-9) spp. n. Java, MARTIN, Leiden, Samml. Geol. Reichsmus (2) 1.—*C. iniquidens* (17-8), *kostejana* (16), *perminuta* (16-7), *subcorrugata* (18-9) spp. n. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54.

†*Cominella plicatilis* sp. n. Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. 22 (39).

†*Conidea* v. *Columbella*.

Conus, Bülöw, Frankfurt a. M., Nachrbl. D. malakozool. Ges. 38.—*C. qucketti*, sp. n. South Africa, SMITH, Ann. Natal Govt. Mus. 1 (22).—*C. betulinus* L. var. n. *immaculata*, DAUTZENBERG, J. conchy-

liol. 54 (27).—*C. mediterraneus* Hwass, var. n. *alliconica, rayssierei*, PALLARY, J. conchyliol. 54 (78).—*C. waterhouseae* Brazier, var. n. KENYON, London, Proc. Malac. Soc. 7 (506).—*C. spinosus* Lin. the type of *Volutospina* (q.v.) gen. n. of Volutidae.

†*Conus testudinarius*, DAUTZENBERG, J. Conchyliol. 54 (30).

†*Conus burckhardti* (50), *sealiae* (51) spp. n. Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. 22.—*C. sindangbaranensis* (287-8), *pamotanensis* (288), *madurensis* (288-9), *tjilonganensis* (289), *iekei* (289-90), *rembangensis* (290), *hulshofi* (290-1), *sedanensis* (291-2), *simoensis* (292) spp. n. Java, MARTIN, Leiden, Samml. Geol. Reichsmus (2) 1.—*C. (Lithoconus) acgyptiacus* sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica 30 (336).

†*Coralliophila biconica* (35-6), *gracilispira* (35) spp. n. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54.

Couthouyia v. *Fossarus*.

Crepidula, development, DAHLGREN.

Crosseia eryma sp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. 7 (70).

†*Cryptorhynchis rigida* Bail. redescribed and figured, WOODS, Cape Town, Ann. S. Afric. Mus. 4 (321).

Cryptospira v. *Marginella*.—*C. (Gibberula) sicula* sp. n. New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. 38 (291).

Cyathopoma taiwanicum sp. n. Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. 57 (724).

Cyclophorus courbeti Ancey var. n. *leucostoma*, DAUTZENBERG & FISCHER, J. conchyliol. 53 (432).—*C. eximius* var. n. *rouyeri* SUMATRA, BULLEN, London, Proc. Malac. Soc. 7 (12).

Cyclostoma elegans, nervous system, AEBERHARDT, Bern, Mitt. Naturf. Ges. 1905 (115-7).

Cyclostrema subgen. n. *Lydiplaxis* (25) type *C. euehiopleron* Melv. & St.; *C. novemearinatum* (22), *quinqueearinatum*, *charmophron* (24) spp. n. Persian Gulf and North Arabian Sea, MELVILL, London, Proc. Malac. Soc. 7.—*C. bastowi* sp. n. Victoria, GATLIFF, Melbourne,

Proc. R. Soc. Vict. **19** (3).—*C. (Delphinoidea) prestoni* **sp. n.** Ceylon, MELVILL, London, Proc. Malac. Soc. **7** (29).

Cyclotus xullaensis **sp. n.** Xulla Is., SCHEPMAN, Leiden, Notes Mus. **28** (120-8).—*C. tairanus* **subsp. n.** *adamsi*, *swinhoei* **subsp. n.** *depressus*, *minutus* **subsp. n.** *concentratus*, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. **57** (723).

Cymatium kamyllum Watson, transferred from *Nassaria* and = *Lampusia nodocostata* Tate & May, HEDLEY & PETTERD, Sydney N.S.W., Rec. Austr. Mus. **6** (219).—*C. (Simpulum) problematicum* **sp. n.** Santa Luzia, C. Verd Is., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (33-4).

Cypræa eruenta **var. n.** *tortirostris* South Africa, SOWERBY, London Proc. Malac. Soc. **7** (39).—*C. punctata* L. **var. n.** *berinii*, DAUTZENBERG, J. Conchyliol. **54** (28).—*C. (Luponia) spurea* Lin. **var. n.** *elongata* Cape Verd Is., DAUTZENBERG & FISCHER, Monaco, Res. camp. sci. **32** (40).

†*Cypræa fourtani* (300), *bullina* (302-3), (*Eocypræa*) *mokattamensis* (300-1), (*Bernayia*) *libyca* (301-2), *aegyptiaca* (302) **spp. n.** Tertiary, Egypt, OPPENHEIM, Palaeontographica **30**.—*C. tarenensis* **sp. n.** Cretaceous, Tripoli, KRUMBECK, Palaeontographica **53** (121-2).—*C. zsigmondyana* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (167-8).—*C. lancicae* Brus., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (3).

†*Cyprædia degrangei* **sp. n.** Tertiary, Biarritz, OPPENHEIM, Zs. D. Geol. Ges. **58** (87).

†*Dalium* [*Dolium*] *dalli* **sp. n.** Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. **22** (58).

Daphnella aculeata **sp. n.** New Zealand, WEBSTER, Wellington, Trans. N. Zeal. Inst. **38** (306).—*D. excavata* **sp. n.** Victoria, GATLIFF, Melbourne, Proc. R. Soc. Vict. **19** (1).—*D. sabrina* (77), (*Pleurotomella*) *alcestis*, *itama* (78) **spp. n.** Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7**.

†*Daphnella jickelii* **sp. n.** Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (81-2).

†*Dejanira* Stoliczka, probably related to the Auriculidæ rather than to the Neritidæ, PETHÖ, Palaeontographica **52**

(122-6).—*D. stoliczkae* **sp. n.** Lower Campanian, S.-E. France, REPELIN, Marseille, Ann. Mus. **10** (40).

Delphinoidea v. *Cyclostrema*.

Diala subearinata **sp. n.** New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38** (292).—*D. translucida* **sp. n.** Sydney N.S.W., HEDLEY, Sydney N.S.W. Proc. Linn. Soc. **30** (522).—*D. trilirata* **sp. n.** Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7** (71).

†*Diastruma biarritzense* **sp. n.** Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. Geol. Ges. **58** (82).

†*Dicroloma* (*Perissoptera*) **sp.**, WOODS, Cape Town, Ann. S. Afric Mus. **4** (319).

†*Dihelice* **gen. n.** of Scaliariidæ; *D. dalhei* **sp. n.** Devonian, Germany, SCHMIDT, Berlin, Zs. D. Geol. Ges. **57** (560).

Diplommatina lavillei **sp. n.** Indo-China, DAUTZENBERG & FISCHER, J. Conchyliol. **53** (442).—*D. (Palaina) marchei* **sp. n.** Mariannes, BAVAY, J. Conchyliol. **53** (253); is synonym of *Palaina hyalina* **sp. n.** Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. **57** (726).

†*Discohelia libyca* **sp. n.** Paleocene, Egypt, OPPENHEIM, Palaeontographica **30** (231).

†*Dolicholathyrus* v. *Fusus*.

Dolium v. *Dalium*.—*D. fimbriatum* Sowerby **var. n.** *natalensis* South Africa, SMITH, Ann. Natal Govt. Mus. **1** (41).—*D. (Eudolium) crosseanum* Monteros. **var. n.** *solidior* Azores, DAUTZENBERG & FISCHER, Monaco, Res. camp. sci. **32** (38).

†*Dorsanum cerithiiforme* Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (30).

Drillia v. *Pleurotoma*.—*D. albotesselata* **sp. n.** South Africa, SMITH, Ann. Natal Govt. Mus. **1** (26).—*D. multiplex* **sp. n.** New Zealand, WEBSTER, Wellington, Trans. N. Zeal. Inst. **38** (306).—*D. optabilis* **sp. n.** New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38** (283).—*Drillia* (?) *thisbe* **sp. n.** Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7** (77).

†*Drillia dora*, *vasta* **spp. n.**, *adela* (Hö. Au.), *allionii* Bell., *crispata* (Ian.), *granaria* (Duj.), *incrassata* (Duj.), *obtu-*

sangula (Brocc.), *pustulata* (Brocc.), *spinescens* (Ptsch.), *terebra* (Bast.), Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (55-7).—*D. (?) (Pleurotoma) weberi* **sp. n.** Tertiary, Philippines, SMITH, Philippine J. Sci. **1** (628).

Dunkeria candida A. Ad. = *Turbonilla* (*Pyrgisculus*) *candidissima* (q.v.).

†*Eastonia* **subgen. n.** of *Faunus* (q.v.); ICKE & MARTIN, Leiden, Samml. Geol. Reichsmus. **8** (107-16).

†*Eccyliopterus kalmi, proclivis* **spp. n.**, RAYMOND, Pittsburgh, Pa., Ann. Carnegie Mus. **3**.

Edgaria nassa (Woodw.) Lake Tanganyika, figd., SMITH, London, Proc. Zool. Soc. **1906** (182).

Egilina **subgen. n.** of *Odostomia* (q.v.), DALL & BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation., Mus. Proc. **30**.

Emarginula, notes on, MARTEL, Feuille jeunes natural. **36** (105-8); Rennes, Bul. soc. sci. méd. **14**, (326-32). *Emarginula superba* **sp. n.** off Sydney. 300 f., HEDLEY & PETTERD, Sydney N.S.W., Rec. Austr. Mus. **6** (216).

Enteroxenus ostergreni, Keimzellen, BONNEVIE, Arch. Math. Naturv., Kristiania **27** No. 12; Jenaische Zs. Natw. **41** (229-428).

†*Eocypraea* v. *Cypraea*.

†*Eopsephaca* v. *Voluta*.

†*Eotomaria robertsi* **sp. n.** Palæozoic, Haverfordwest, REED, London, Geol. Mag. **3** (359).

Euchelus natalensis **sp. n.** South Africa, SMITH, Ann. Natal Govt. Mus. **1** (55).

Eudolium v. *Dolium*.

Eulima, notes on spp., MARTEL.—*E. nisonida* (71), *rhæba* (72) **spp. n.** Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7**.—*E. vegrandis* (297), *infrapatula* (297), (*Mucronalia*) *bulbula* (298) **spp. n.** New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38**.

†*Eulima levis, oralis* **spp. n.** Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. **21** (21).—*E. raymondi* **sp. n.** California, RIVERS, Los Angeles, Bull. So. Cal. Acad. Sci. **3**.

Eulimella anabathron **sp. n.** Sydney, HEDLEY, Sydney N.S.W. Proc. Linn. Soc. **30** (524).—*E. lerilirata* **sp. n.** New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38** (296).

†*Euomphalus* (*Straparollus*) cf. *grandis* Kon., *eupentangulatus* Sow., FRECH, Földt. Közl. **36**.

†*Euphemus sudeticus* (123), *kukenthalii* (124) **spp. n.** Carboniferous, Hungary, FRECH, Földt. Közl., Budapest **36**.

Eupomatias v. *Pomatias*.

†*Euspira* v. *Natica*.

Euthria adales (23), *pulicaria* (24) **spp. n.** Cape Verd Is.; *E. saharica* (21-2) is a synonym of *Latirus maximus* G. B. Sby., DAUTZENBERG & FISCHER, Monaco, Res. camp. sci. **32**.

†*Euthria adunca* (Brown), *fuscoeingulata* (M. Hö.) Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (33).

†*Eutritonium biarritzense* **sp. n.** Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. Geol. Ges. **58** (84).—*E. affine* (Desh.), *apenninicum* (Sassi), *deshayesi* (Michti.), *karreri* (Hö. An.), *parrulum* (Michti.), *speciosum* (Bell.), *tarbellianum* (Grat.), *tortuosum* (Brocc.) Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (38-39).

†*Eutrochus* v. *Trochus*.

Evalea v. *Odostomia*.

Fasciolaria, development, GLASER, Biol. Bull. **10** (139-64).—*F. tulipa*, Kannibalismus, GORKA, Terint. Közl. **38** (230).

†*Fasciolaria fimbriata* Brocc., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (48).

†*Faunus* **subgen. n.** *Eastonia*; *F. (E.) horsti* **sp. n.** Cretaceous, Borneo, ICKE & MARTIN, Leiden, Samml. Geol. Reichsmus. **8** (107-16).

†*Ficula rai* (308-9), *thebaica* (309) **spp. n.** Tertiary, Egypt, OPPENHEIM, Palaeontographica **30**.—*F. cingulata* Bronn, *geometra* Borson, Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (46-7).

Fissurella, anatomy, HALLER.—*F. huttoni* (*F. squamosa* Hutton) **sp. n.**, SUTER, Wellington, Trans. N. Zeal. Inst. **38** (322).—*F. verna* Gld. **var. n.** *gouldi* Cape Verd Is., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (61).

†*Fissurella nuda* sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (216-7).

Fossarus (*Couthouyia*) *eudmetus* sp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7** (71).

Fulguraria (*Aleithoe*) *hedleyi* sp. n. New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38** (288).

Fusus, notes on name, DALL, Leeds, J. Conch. **11** (289-97).—*F. ineertus* sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. **18** (167).—*F. corpulentus* Smith, figd., BüLOW, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (196-200).

†*Fusus baryi* sp. n. Cretaceous, Tripoli, KRUMBECK, Palaeontographica **53** (119-20).—*F. legrei* (20-1), *parrulus* (21), *supraeretaeus* (21), *globulus* (22), *oliva* (22) spp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10**.—*F. grodischianus*, *oxyptychus*, *rothpletzi*, *zonatus* spp. n., ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).—*F. schlosseri* (171), *delicatulus* (172), *conjecturalis* (173) spp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica **52**.—*F. sublamellosus* sp. n. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (17-8).—*F. (Clarella) sangiranensis* (307), *fennemai* (307-8) spp. n. Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) **1**.—*F. (Dolicholathyrus) mokattamensis* sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica **30**.

Gaza (*Callogaza*?) *frederiei* sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. **18** (246).

Genota v. *Pleurotoma*.

†*Genota ramosa* (Bast.), *valerae* (Hö. Au.), Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (55).

Gibberula v. *Cryptospira*.

Gibbula v. *Trochus*.—*G. corallinoides* Locard, *gorgonarum* P. Fisch., figd., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (57).

†*Gibbula lucida* sp. n. Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. geol. Ges. **58** (81).

Giraudia horei Smith (183) *praeclara* Bourg. (183), Lake Tanganyika, figd., SMITH, London, Proc. Zool. Soc. **1906**.

†*Glauconia* synonymy (31), *coquandi* d'Orb. (33-7) varr. n., REPELIN, Marseille, Ann. Mus. **10** (33-7).

Glyphis fuseoeremulata sp. n. South Africa, SMITH, Ann. Natal Govt. Mus. **1** (56).

†*Goneoptyxis kurkurensis* sp. n. Paleocene, Egypt, OPPENHEIM, Palaeontographica **30** (313).

Goniobasis comalensis form. n. *fontinalis* S.W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58**.

†*Gyrodes* v. *Natica*.—*G.* sp. WOODS, Cape Town, Ann. S. Afric. Mus. **4** (317).

†*Gyronema*? *rotalina* sp. n., RAYMOND, Pittsburgh, Pa., Ann. Carnegie Mus. **3** (577).—*G. speciosum*, *doulingi* (50F), *brevispira* (51F) spp. n. Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. **14**.

†*Haedropleura avenacea* (60), *corae* (58), *crystallina* (59-60), *reticosta* (60-1) spp. n. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54**.

Haloepa [*Holopea*]? *iowensis* sp. n. Hackberry group, Iowa, WEBSTER, Iowa Nat. **2** (2-4).

Harpulina nom. n. for *Harpula* auct. non Swainson, type *Voluta arausaica* Solander, DALL, Nautilus **19** (143).

Heleioniseus illibrata sp. n. S. Australia, VESCO, Adelaide S. Austr., Trans. R. Soc. **30** (205).—v. *Heleioniseus*.

†*Heleioniseus luciferus* sp. n. Patagonian, Patagonia, IHERING, Revist. Mus. La Plata **11** (237-8).

Helicina semisculpta (125), *ragans* (126) spp. n. Tenimber, ANCEY, J. Conchyliol. **54**.

Heliconiseus mestayerae sp. n. Stewart I., SUTER, Wellington, Trans. N. Zeal. Inst. **38** (322).

†*Heligmotoma libyeum* sp. n. Paleocene, Egypt, OPPENHEIM, Palaeontographica **30** (321-2).

Hemipleurotoma v. *Pleurotoma*.

Hima v. *Nassa*.

Hindsia grimaldii belongs to *Anura*, Bellardi, DAUTZENBERG & FISCHER, Monaco, Res. camp. sci. **32** (25-6).

†*Hindsia gendinganensis* (313-4), *tambacana* (314-5), *samarangana* (315),

javana (315-6), *tjemoroensis* (316-7) **spp. n.** Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) 1.

†*Hippoerene* v. *Rostellaria*.

†*Hipponyx mokattamensis* **sp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica 30 (261-2).

Holeopoma v. *Auritus*.

Holopea? *plauta* **sp. n.** RAYMOND, Pittsburgh, Pa., Ann. Carnegie Mus. 3. —v. *Holopea*.

†*Holopella acicularis* Roem., figd. SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. 19 (230).

Hydrocena v. *Realia*.

†*Janiopsis maxillosa* (Bon.), *vanelliformis* (Hö. Au.), Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (32-3).

Iphiana v. *Pyramidella*.

†*Itieria katzeri* **sp. n.** Cretaceous, Balkans, OPPENHEIM, Berlin, Zs. D. geol. Ges. 58 (132).

Japonia zebra (722), *formosana* (723), **spp. n.** Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. 57.

Lacuna wandelensis **sp. n.** Antarctic, LAMY Bul. Muséum, Paris 11 (178).—*L. pallidula* da Costa **var. n. aurea** DAUTZENBERG & DUROUCHOUX, Feuille jeunes natural. 36.

Lamellaria ampla, *fuegoensis*, *elata*, *magellanica* **spp. n.** Magalhaen, STREBEL, Zool. Jahrb., Syst. 24 (145-7).

Lamelliariopsis **gen. n.** of Marseniadae for *L. turquati* **sp. n.** Antarctic, VAYSISIÈRE, Bul. Mus., Paris 12 (148).

Lampas v. *Bursa*.

†*Lamprodroma* v. *Olivæ*.

Lancella v. *Turbonilla*.

Lanistes gribbinginensis **sp. n.** Central Africa, GERMAIN, Bul. Muséum, Paris 11 (487).

Lanzaia **gen. n.** of Rissoiidae for *Turbo elephantotus* Megerle 1824 BRUSINA, Frankfurt a. M., NachrBl. D. malakozool. Ges. 38 (154-62).

†*Lathyrus bellardii* (M. Hö.), *bilineatus* (Pisch), *moravicus* (Hö. Au.), *pleurotomoides* (Hö. Au.), Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (48-9).

Latirus maximus G. B. Sby., figd., DAUTZENBERG & FISCHER, Monaco, Res. camp. sci. 32 (21-2).

†*Latirus tjilonganensis* **sp. n.** Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) 1 (308-9).

†*Latrinculus stromeri* **sp. n.** Upper Lutetian, Egypt, OPPENHEIM, Palaeontographica 30.

Lavigeria grandis Bourg. Lake Tanganyika, figd., SMITH, London, Proc. Zool. Soc. 1906 (182).

†*Laxispira distincta* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica, 52 (144-5).

Leiostraca inusta **sp. n.** Sydney, HEDLEY, Sydney, N.S.W. Proc. Linn. Soc. 30 (525).

Leiotrochus v. *Calliostoma*.

†*Leptoconchus rollei* **sp. n.** Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (36-7).

Leptopoma bicolor **var. n. mutica**, KOBELT in MARTINI & CHENNITZ, Syst. Conch. Cab.

†*Leptothyra gibbula* **sp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica 30 (225).

Lepyrium showalteri **subsp. n. calhauensis**, PILSBRY, Nautilus 20 (51).

Leucosyrinx v. *Pleurotoma*.

†*Liotia* (*Liotina*) *fabrei* **sp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica 30 (219).

Lippistes meridionalis **sp. n.** S. Australia, VERCO, Adelaide, S. Aust., Trans. R. Soc. 30 (221).

Liratina **subgen. n.** of *Valvata* (q. v.), LINDHOLM, Frankfurt a. M., NachrBl. D. malakozool. Ges. 38 (190).

Lissochilus **subgen. n.** of *Nerita* (q. v.) PETHÖ, Palaeontographica 52 (112-3).

†*Lithocornus* v. *Cornus*.

Littorina rudis, Trematode parasites; *Cercaria emascuans* **sp. n.** (166), *C. brevicauda* **sp. n.** (167), PELSENER, 3.

†*Littorina dictyophora* **sp. n.** ASCHER, Wien, Beitr. Pal. Geol. OestUng. 19 (135-72).

†*Lophospira cecarata* (558), *trispirealis* (559), *instabilis* (560), *sedgwicki*, *ferruginea* (562), *bellicirmata* (565), *subglobosa* (569) **spp. n.** Primary,

British Isles, DONALD, Quart. J. Geol. Soc. London **62**.

†*Lorxonema pexatiforme* **sp. n.** Permo-Carboniferous, Italy, GORTANI, Paleontogr. Ital. **12** (67).

†*Lunatia* v. *Natiea*.

Luponia v. *Cypraea*.

Lydiplhuis **subgen. n.** of *Cyclostrema* (q. v.), MELVILL, London, Proc. malac. Soc. **7** (25).

†*Lyria ickei* **sp. n.** Java, MARTIN, Leiden, Samml. Geol. Reichsmus (2) **1** (302-3).

†*Maerocheilus meridianus* **sp. n.** Permo-Carboniferous, Italy, GORTANI, Palaeontogr. Ital. **12** (65).—*M. stinesvillensis* **sp. n.** CUMINGS, Indiana, Rep. Dept. Geol. Nat. Res. **30**.

†*Malaptera* v. *Aporrhais*.

Malluvium **subgen. n.** of *Amalthea* type *Capulus lissus* Smith, MELVILL, London, Proc. Malac. Soc. **7** (82); is unnecessary, SMITH, London, Proc. Malac. Soc. **7** (122).

Manaria **gen. n.** of Fusidae for *M. thurstoni* **sp. n.** Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. **18** (167).

Mangilia beckeri **sp. n.** South Africa, SOWERBY, London, Proc. Malac. Soc. **7** (38).—*M. buplicata* **sp. n.** Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7** (77).—*M. murrhea* (305), *infanda* (305), **spp. n.** New Zealand, WEBSTER, Wellington, Trans. N. Zeal. Inst. **38**.

†*Mangilia porcellanea* (80), *subcostata* (77-8), *subturgida* (80-1) **spp. n.** Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54**.

Margarita antarctica **sp. n.** Antarctic, LAMY, Bul. Muséum, Paris **11** (481).

Margaritopsis **gen. n.** for *Margarita frielei* Krause, THIELE, Frankfurt a M., NachrBl. D. malakozool. Ges. **38**.

Margarya melanioides Nevill **var. n.**, DAUTZENBERG & FISCHER, J. Conchyliol. **53** (424).

Marginella eburnea, *subflava* **spp. n.** Ceylon (?), PRESTON, London, Proc. Malac. Soc. **7** (35).—*M. fusula* (289), *hebesceus* (290) **spp. n.** New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38**.—*M. shepstonensis* (31) **sp. n.** South Africa; *M. buplicata* (29) Krauss, discussed,

SMITH, Ann. Natal Govt. Mus. **1**.—*M. (Volvaria) amydrozona*, *eumorpha* **spp. n.** Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7** (76).—*M. (V.) joubini* **sp. n.** off N. W. Africa, DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (18-9).—*M. (V.) perrieri* **sp. n.** Falkland Is., BAVAY, J. Conchyliol. **53** (268).

†*Marginella dalli* (43), *cordiformis* (44), *latior* (45) **spp. n.** Tertiary, Mexico, BÖSE, Mexico, Biol. Inst. Geol. **22**.—*M. rembangensis* (299-300), *beberkiriana* (300), (*Cryptospira*) *pamotanensis*, (300-1), *sangiranensis* (301) **spp. n.** Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) **1**.—*M. (Volvarina) brevispira* (324-5), (*Stazzania*) *sanurensis* (325) **spp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica **30**.—*M. eratoformis* Hö. An., *minuta* Pfr., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (5).—*M. gibberosa* (87), *portus* (88) Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. geol. Ges. **58**.

†*Mayeria* v. *Semifusus*.

†*Megalomphala robusta* **sp. n.** Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. **14** (48 F).

Megaloralvata **subgen. n.** of *Valvata* (q. v.), LINDHOLM, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (190).

Melania solidula **sp. n.** Mariannes, BAVAY, J. Conchyliol. **53** (254).—*M. sykesi* **sp. n.** Sumatra, BULLEN, London, Proc. Malac. Soc. **7** (15).—*M. eurvieosta* **var. n.** *prestoniana* Sumatra, BULLEN, London, Proc. Malac. Soc. **7** (15).

†*Melania jacqueti* **sp. n.** Indo China, DAUTZENBERG & FISCHER, J. Conchyliol. **53** (413).—*M. krausei* **sp. n.** Upper Cretaceous, Borneo, ICKE & MARTIN, Leiden, Samml. Geol. Reichsmus., **8** (109-10).—*M. (Aerostoma) sindangbaranensis* **sp. n.** Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) **1** (321).—*M. (Pachychilus) bombachensis* **sp. n.** Tertiary, Panama, JOKOWSKY, Genève, Mém. Soc. Phys. **35** (174-5).

†*Melongena ickei* **sp. n.** Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) **1** (309).—*M. lesehmanni* **form. n.**, HOERNES, Wien, SitzBer. Ak. Wiss. **115** (1521-47).

Menestho v. *Odostomia*.

†*Mesulia farafrensis* (251-2), *sannu-rensensis* (253), *pedinogyra* (253-4), *blanc-kenhorni*, (251), *analoga* (251-5) **spp. n.** Tertiary, Egypt, OPPENHEIM, *Palaeontographica* **30**.

†*Mesorhytis* v. *Turricula*.

Metula andamanica **sp. n.** Andaman Is., SMITH, *Ann. Mag. Nat. Hist.* **18** (165).

†*Metula boettgeri* **sp. n.** Java, MARTIN, Leiden, *Samml. geol. Reichsmus.* (2) **1** (310-1).—*M. biarritzensis* **sp. n.** Tertiary, Biarritz, OPPENHEIM, *Zs. D. geol. Ges.* **58** (86).

†*Micraelis* **gen. n.** aff. *Turbonilla* Risso, Typ *M. mira* **sp. n.** Miocän, Ungarn, BOETTGER, *Verh. siebenb. Ver. Naturw.* **54** (99).

Minolia textilis (298), *plicatula* (299), **spp. n.** New Zealand, MURDOCH & SUTER, Wellington, *Trans. N. Zeal. Inst.* **38**.

Miralda v. *Odostomia*.

Mitra, notes on spp.; *M. bretteinghami* **sp. n.** Hab. incert., SMITH, London, *Proc. Malac. Soc.* **7** (124-5).—*M. bretteinghami* Sm., *zonata* Marr. figd., BÜLOW, Frankfurt a. M., *NachrBl. D. malakozool. Ges.* **38** (196-200).—*M. idae* Melv., (195-6), *fultoni* Sm. (197), *lowei* Dall (197), *orientalis* Gray, W. America, figd., WILLIAMSON, Washington, D.C., *Proc. Biol. Soc.* **19**.—*M. punctostriata* Adams, figured, SMITH, *Ann. Natal Govt. Mus.* **1** (32).—*M. pieta* Rve., note, Rous, *Nautilus* **20** (57).—*M. (Turricula) sanguisuga* L. **subsp. n.** *condoriana*, DAUTZENBERG & FISCHER, *J. Conchyl. 53* (387).

†*Mitra aptycha* (12-3), *boehmi* (11-2), *paraptycha* (13-4), *pilsbryi* (6-7), *pseudorecticosta* (19), *subfusulus* (5) **spp. n.** Miocän, Ungarn; *M. arellana* **varr. n.** *arellanella* (9), *pseudarellana* (9-10), *M. ebenus* Link. **varr. n.** *paraleucozona* (8), *pseudopyramidella* (9), Miocän, Ungarn, BOETTGER, *Verh. siebenb. Ver. Naturw.* **54**.—*M. degrangei rasconum* **spp. n.** Tertiary, Biarritz, OPPENHEIM, Berlin, *Zs. D. geol. Ges.* **58** (89).—*M. mokattamensis* **sp. n.** Lutetian, Egypt, OPPENHEIM, *Palaeontographica*, **30** (325-6).—*M. (Nebularia) sedanensis* (303), *(Caneilla) sucabumiana* (303-4), *rembangensis* (304) **spp. n.** Java, MARTIN, Leiden, *Samml. Geol. Reichsmus.* (2) **1**.

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Mitromorpha pallidula **sp. n.** Sydney, HEDLEY, Sydney, N.S.W. *Proc. Linn. Soc.* **30** (534).

†*Mohrensternia* (?) *pseudalvania* **sp. n.** Maotisches Becken, ANDRUSSOW, St. Peterburg, *Verh. Russ. mineral. Ges.* **43** (289-451).

Monilea oleacea **sp. n.** off Sydney 300 f., HEDLEY & PETERD, Sydney, N.S.W., *Rec. Austr. Mus.* **6** (215).

†*Monodonta* v. *Trochus*.

Morio alcocki **sp. n.** Bay of Bengal, SMITH, *Ann. Mag. Nat. Hist.* **18** (170).

Mormula v. *Turbonilla*.

Mueronalia v. *Eulima*.—*M. bizonula* (72), *lepida* (73) **spp. n.** Gulf of Oman, MELVILL, London, *Proc. Malac. Soc.* **7**.

Mumiola epibathra **sp. n.** Gulf of Oman, MELVILL, London, *Proc. Malac. Soc.* **7** (72).

†*Murchisonia kokeni* (*M. angulata* Koken) **sp. n.**, FRECH, *Földt. Közl.* **36** (126).—*M. paronai* (574), *tommasii* (575) **spp. n.** Carboniferous, Carnian Alps, GORTANI, *Boll. Soc. Geol. Ital.* **24**.—*M. mazzaroti* **sp. n.**, Permian, Carnia, GORTANI *Rev. Ital. Pal.* **12** (123).—*M. aff. demidoffi* Palaeozoic, Podolia **sp. n.**, SIEMIRADZKI, Wien, *Beitr. Pal. Geol. OestUng.* **19** (233).

Murex licinus **sp. n.** off Sydney 300 fath., HEDLEY & PETERD, Sydney, N.S.W. *Rec. Austr. Mus.* **6** (219).—*M. spp.* (33-8); *M. gallinago* Sby. (196-200) figd., BÜLOW, Frankfurt a. M., *NachrBl. D. malakozool. Ges.* **38**.

†*Murex attonans* (43-4), *collega* (12-3), *hamulifer* (41-2), *murex-ferreus* (45) **spp. n.** Miocän, Ungarn, BOETTGER, *Verh. siebenb. Ver. Naturw.* **54**.

Nacella, anatomy, HALLER.—*N. compressa* (208), *stowae* (209) **spp. n.** S. Australia, VERCO, Adelaide, S. Aust., *Trans. R. Soc.* **30**.

Nassa nevillianiana **sp. n.** Ceylon (?), PRESTON, London, *Proc. Malac. Soc.* **7** (34).—*N. subsimilis* **sp. n.** Bay of Bengal, SMITH, *Ann. Mag. Nat. Hist.* **18** (165).—*N. (Alectryon) jaetibunda* **sp. n.** Persian Gulf, MELVILL, London, *Proc. Malac. Soc.* **7** (76).—*N. (Hima) tindalli* **sp. n.** Ceylon, MELVILL, London, *Proc. Malac. Soc.* **7** (29).—*N. mutabilis* L. **var. n.**, *procera*, *N. ferrusaei* Payr.

b 20

varr. n. *claudoni*, *pallaryi*, PALLARY, J. *Conchyl. 54* (81-5).

†*Nassa crux* (26), *explorata* (23), *hypertrophata* (24), *striaticosta* (27), *subasperata* (29) **spp. n.**; *N. daeiae* HÖ. **Au. var. n.** *rejecta* (28-9); Miocän, Ungarn, BOETTGER, *Verh. siebenb. Ver. Naturw. 54*.—*N. prisca* **sp. n.** Tertiary, Biarritz, OPPENHEIM, *Zs. D. geol. Ges. 58* (83).—*N. retourskii* **sp. n.** Maöisches Becken, ANDRUSSOW, St. Peterburg, *Verh. Russ. mineral. Ges. 43* (289-451).—*N. (Uzita) beberkiriana* **sp. n.** Java, MARTIN, Leiden, *Samml. Geol. Reichsmus. (2) 1* (317).

Natica anderssoni **sp. n.** Magalhaen, STREBEL, *Zool. Jahrb., Syst. 24* (142).—*N. dimidiata* (172), *simulans*, *incerta* (173), *apertissima*, *imutilis* (174) **spp. n.** Bay of Bengal and Arabian Sea, SMITH, *Ann. Mag. Nat. Hist. 18*.—*N. alderi*, trematode parasites; *Cercaria parriventalis* **sp. n.** (165-6), *C. obtusicaudata* **sp. n.** (167-8), *C. crispata* **sp. n.** (171-2), *C. appendiculata* **sp. n.** (174-5), PEL-SENEER, 3.

†*Natica arsenae* **sp. n.** Miocän, Ungarn, BOETTGER, *Verh. siebenb. Ver. Naturw. 57* (90).—*N. mokattamensis* (276), *admiranda* (271), *cepaeformis* (272) (*Euspira*) *lyonsi* (264-5), (*Nerita*) *cleopatrae* [Mayer-Eymar MS.] (272-3), (*Naticina*) *aegyptiaca* (271-5), *phasianella* (275-6) **spp. n.** Tertiary, Egypt, OPPENHEIM, *Palaeontographica 30*.—*N. plesio-lyrata* (147-8), *providata* (148-9), *uberiformis* (150-1), (*Amavropsis*) *frusca-gorensis* (145-7), (*Gyrodus*) *kochi* **spp. n.** Cretaceous, Hungary, PETHÖ, *Palaeontographica 52*.—*N. uhligi* **sp. n.**, ASCHER, Wien, *Beitr. Pal. Geol. OestUng. 19* (135-72).—*N. (Ampullina) atilirata* **sp. n.** Senonian, Cardenas, Mexico, BÖSE, Mexico, *Bol. Inst. geol. 24* (61).—*N. (Lunatia) multi-striata* Bail. re-described and figured, Woods, Cape Town, *Ann. S. Afric. Mus. 4* (316).

†*Naticina* v. *Natica*.

†*Naticopsis hackberryensis* **sp. n.**, *gigantea* **var. n.** *depressa* Hackberry group, Iowa, WEBSTER, *Iowa Nat. 2* (2-4).—*N. paucivolutus* **sp. n.** Glen Park Limestone, WELLER, St. Louis Mo., *Trans. Acad. Sci. 16* (435-71).

†*Nebularia* v. *Mitra*.

Neocyclotus depressus (9), *perurianus* (98) **spp. n.** Peru, DA COSTA, London, *Proc. Malac. Soc. 7*.

Neptunea antiqua, teratology, SMITH, London, *Proc. Malac. Soc. 7* (67).

†*Nerinea*, ASCHER, Wien, *Beitr. Pal. Geol. OestUng. 19* (135-72).—subgen. n. *Plesioptygmatis* type *N. (P.) burekhardtii* **sp. n.** Senonian, Cardenas, Mexico, BÖSE, Mexico, *Bol. Inst. Geol. 24* (65-7).—*N. katzeri* **sp. n.** Cretaceous, Balkans, OPPENHEIM, Berlin, *Zs. D. geol. Ges. 58* (131).

Nerita subgen. n. *Lissochilus*, type *N. sigaretinus* Buvignier, PETHÖ, *Palaeontographica 52* (112-3).

†*Nerita gemmata* **sp. n.** Cretaceous, Hungary, PETHÖ, *Palaeontographica 52* (126-7).—*N. kaffraria*, *umzambiensis* **spp. n.** Cretaceous, Pondoland, Woors, Cape Town, *Ann. S. Afric. Mus. 4* (311).—*N. punctata* **sp. n.** Tertiary, Philippines, SMITH, *Philippine J. Sci. 1* (628).—*N. (Otostoma) gensacensis* **sp. n.** Campanian, Gensac, PETHÖ, *Palaeontographica 52* (117-8).—*N. (Peloronta) saurensis* (226-7), *fajumensis* (227-8), (*Lissochilus*) *euleista* (288) **spp. n.** Tertiary, Egypt, OPPENHEIM, *Palaeontographica 30*.

Neritina, Hungarian spp., Soós, Budapest, *Ann. Hist. Nat. Mus. Nat. Hung. 4* (450-62).—*N. fluriatilis* **subsp. n.** *zernornicensis*, KORMOS, Frankfurt a. M., *NachrBl. D. malakozool. Ges. 38*.—*N. liturata* Aralsee, OSTROUMOFF, Taškent, *Izv. Turk. Otd. Russ. Geogr. Obsč. 4* (20-6).

†*Neritina*, notes on Diluvial species, KORMOS, *Foldt. Kozl., Budapest 36* (295-6).—*N. haugi* **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, *Ann. Mus. 10* (39-40).—*N. junghuhni* **sp. n.** Java, MARTIN, Leiden, *Samml. Geol. Reichsmus. (2) 1* (323).—*N. ločzyana* **sp. n.** Cretaceous, Hungary, PETHÖ, *Palaeontographica 52* (131-2).

†*Neritoma* (?) (*Oncochilus*) *occidentalis* **sp. n.** Jurassic, N. America, WHITFIELD & HOVEY, New York, *Bull. Amer. Mus. Nat. Hist. 22*.

†*Neritopsis parisiensis* Desh. Eocene, Monte Postale, figd., FABIANI, Padova, *Atti. Ac. Ven.-Trent. 2* (148).

†*Nerita* v. *Natica*.

Newtoniella stiria sp. n. New Zealand, WEBSTER, Wellington, Trans. N. Zeal. Inst. **38** (307).

Nisitarris subgen. n. of *Turbonilla* (q.v.), DALL & BARTSCH, Washington, D.C., Smithsonian Inst., U.S. Nation. Mus. Proc. **30**.

†*Niso kimberi* sp. n. Eocene, S. Australia, PRITCHARD, Viet. Nat., Melbourne **23** (119).

Obeliscus v. *Pyramidella*.—*O. agassizi*, *pattalus*, *clarus*, *hendersoni*, *simpsoni* spp. n., *homalogyra* var. n. *zaza*, *salleanus* var. n. *disparilis*, PILSBRY, Man. Conch. **18**.

Ocenebra erronea Monterosato varr. n. *major*, *minor*, PALLARY, J. Conchyl. **54** (92).

Ocenebrina hybrida Aradas & Schoil var. n. *scalata*, PALLARY, J. Conchyl. **54** (93).

Odetta v. *Odostomia*.

Odostomia subgen. n. *Egilina*; *O. desemana* (*O. lactea* Dunker), (*Menestho*) *exarata* (*Menestho exarata* A. Adams), (*Amaura*) *martensi* (*O. curta* Clessin), (*Parthenina*) *meta*, (*Chrysalida*) *dux*, (*Pyrgulina*) *lecta*, (*Odetta*) *lectissima*, *felix*, (*Evalea*) *culta*, *mauritanica*, *limpida* spp. n., (*Pyrgulina*) *densecostata* subsp. n. *upoluensis*, DALL & BARTSCH, Washington, D.C., Smithsonian Inst., U.S. Nation. Mus. Proc. **30**.—*O. lutea* Garrett, and synonyms, MELVILL & STANDEN, Leeds, J. Conch. **11** (362).—*O. marginata* sp. n., New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38** (296).—*O. opaea* sp. n. Sydney, HEDLEY, Sydney N.S.W. Proc. Linn. Soc. **30** (524).—*O. (Pyrgulina) herrierioides*, *tenerrima* (74), *thelxinoe*, (*Miralda*) *una* (75) spp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7**.

†*Odostomia takinogawensis* Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. **26** (23).

Oliva smithi (17) sp. n. locality unknown; *O. ispidula* var. n. *longispira*, BRIDGMAN, London, Proc. Malac. Soc. **7** (195).

†*Oliva ickei* (296-7), (*Olivancillaria*) *pamotanensis* (297), *rembangensis* (297-8) spp. n. Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) **1**.—*O. subplicata* (n-9720 r)

sp. n. Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. **22** (59).—*O. (Lamprodoma) aegyptiaca* sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (330).—*O. flammulata* Lmk., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (3).

†*Olivancillaria* v. *Oliva*.

Omalaxis amœna sp. n. New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38** (293).

Omphalotropis v. *Realia*.—*O. annatouensis* Pfeiffer var. n. *santoensis* New Hebrides, ANCEY, J. Conchyl. **53** (300).—*O. elongata*, *quadrasii* synonymy, BAVAY, J. Conchyl. **54** (10).

†*Omospira orientalis* sp. n. Palaeozoic, British Isles, DONALD, Quart. J. Geol. Soc. London **62** (553).

†*Oneochilus* v. *Neritoma*.

Oocorys var. n. *sulcata* Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. **18** (170).

†*Oonia* v. *Pseudomelania*.

Opisthostoma tonkimandus sp. n. Indo China, DAUTZENBERG & FISCHER, J. Conchyl. **53** (444).

†*Orthonychia jeffersonensis*, *ungula* spp. n. Glen Park Limestone, WELLER, St. Louis, Mo., Trans. Acad. Sci. **16** (435-71).—*O. obtusa* sp. n. Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Com. **14** (51 F).

†*Otostoma* v. *Nerita*.

Orula hautkeni Heb. & Mun.-Ch., the type of *Vicetia* (q.v.) gen. n.

†*Pachychilus* v. *Melania*.

Palaina v. *Diplommantina*.—*P. formosana* sp. n. Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Sci. **57** (728).

Paludestrina diaboli sp. n. S.W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58**.

Paludina v. *Vivipara*.—Fauna of W. Europe, KOBELT, Wochenschr. Aquarienkunde, Braunschweig, **3**, (428-31, 551-3); ROTH, Bl. Aquarienkunde **17** (431-2, 433-40).—Of Lake Zurich, ROTH, Bl. Aquarienk. **17** (180-2).—*P. sp.*, ZIEGELER, Wochenschr. Aquarienkunde **3** (95-7).—*P. fasciata* var. n. *diluvianiformis*, HILBERT, Königsberg, Schr. physik. Ges. **46** (44-9).—*P. lecythoides* Benson var. n. *latissima*, *zattei* Crosse & Fischer var. n.

elongata, *quadrata* Bens. **varr. n.**, DAUTZENBERG & FISCHER, J. Conchyl. **53**, (418-9).—*P. pyramidalis*, ZIEGLER, Wochenschr. Aquarienkunde **3** (221).—*P. pyramidalis* Jan. occurrence in Lake Zurich, ROTH, Natur u. Haus **14** (151-7); Bl. Aquarienkunde **17** (175-6, 271).—*P. vivipara* Lake Zurich, BOETTGER, Wochenschr. Aquarienk. **3** (175).—*P. vivipara*, nervous system, AEBERHARDT, Bern, Mitt. Naturf. Ges. **1905**, (120-1).—*P. vivipara*, embryology, OTTO & TÖNNIGES, Zs. wiss. Zool. **80** (411-514).

†*Paludinopsis* **gen. n.** of Melaniidae aff. *Faunus* subgen. *Eastonia*; *P. silatiensis*, *ngeriensis* **spp. n.** Cretaceous, Borneo, ICKE & MARTIN, Leiden, Samml. Geol. Reichsmus. **8** (116-9).

Paramelania crassigranulata Smith (182), *damoni* Smith (182) L. Tanganyika, figd., SMITH, London, Proc. Zool. Soc. **1906**.

Parastrophia filum **sp. n.** Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7** (80).

Parthenina v. *Odostomia*.—*P. caluta* A. Ad. the type of *Babella* (q.v.) subgen. n.

†*Parvifusus gibber* **sp. n.** Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (34).

†*Parviscala* v. *Scalaria*.

Patella intermedia Jeffreys **varr. n.** *marteli splendida*, *depressa*, *ochracea*, DAUTZENBERG & DUROUCHOUX, Feuille jeunes natural Paris **36**.

†*Peloronta* v. *Nerita*.

†*Peratotoma adelgundae* (74), *præhispidæ* (71), *prætexta* (73-4), *scaberrima* (71-2), *theodoræ* (75-6), *ulricæ* (70) **spp. n.** Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54**.

†*Pereiræ* (?) *schweinfurthi* **sp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (296-7).

†*Perissoptera* v. *Dicroloma*.

Phareidella v. *Pyramidella*.

†*Phasianella sericata* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica, **52** (99-100).

Philbertia pruinosa **sp. n.** Gulf of Gabes, PALLARY, J. Conchyl. **54** (80).—*P. papillosa* Pallary **varr. n.** *arnoldi*, *edei*, PALLARY, J. Conchyl. **54** (80).

†*Phos acuminatus* **sp. n.** Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) **1** (311-2).—*P. mexicanus* **sp. n.** Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. **22** (38).—*P. hoernesii* O. Semp. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (23).

Photinula, notes on, THIELE, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (12-5).

†*Pirifusus bailyi* **sp. n.** Cretaceous, Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. **4** (324).

†*Platyceras chronus*, *elytia*, *pagoda* **spp. n.** Cambrian, China, WALCOTT, Washington, Nation. Mus. Proc. **29** (14-5).—*P. compactum* **sp. n.** Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. **14** (52 F).—*P. erectoides*, *evolutus*, *glenparkensis* **spp. n.** Glen Park Limestone, WELLER, St. Louis, Mo., Trans. Acad. Sci. **16** (435-71).—*P. podolicum* (230) **sp. n.** Palaeozoic, Poland; *P. cornutum* His., *disjunctum* Gieb., figd., SIEMIRADZKI, Beitr. Pal. Geol. Oest. Ung., **19**.—*P. subsymmetrica* **sp. n.** Devonian, Germany, SCHMIDT, Berlin, Zs. D. geol. Ges. **57** (561).—*P. willisi* **sp. n.** Cambrian, China, WALCOTT, Washington, D.C., Smithsonian Inst., U.S. Nation. Mus. Proc. **30** (563).—*P. insolita*, *modesta* **spp. n.** Hackberry Group, Iowa, WEBSTER, Iowa Nat. **2** (2-4).

†*Plesioptygmatis* subgen. n. of *Nerinea* (q.v.), BÖSE, Mexico, Bol. Inst. geol. **24** (65-7).

†*Plesiotriton cossmanni* **sp. n.** Iutetian, Egypt, OPPENHEIM, Palaeontographica **30** (311-2).

Pleurotoma spp., Bülow, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38**.—W. American spp. of *Genota*, RAYMOND, Nautilus **20** (37-9).—*P. catearia* **sp. n.** off Sydney, 300 fms. HEDLEY & PETTERD, Sydney, N.S.W., Rec. Austr. Mus. **6** (220).—*P. joubini* (11-2), (*Clio-nella*?) *richardi* (13-4), (*Pleurotomella*) *alberti* (16-7) **spp. n.** off N.W. Africa, DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (11-2).—*P. (Hemipleurotoma) alticineta*, *nodilirata* (*P. tuberculata* Kirk), (285), (*Leucosyrinx*) *augusta* (286), *eremita* (287) **spp. n.** New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38**.—*P. (Sureula) nereis* (161), *thisbe*, *agalma* (162), (*Bathytoma*)

urania (163) **spp. n.** Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. 18.

†*Pleurotoma fajumensis* **sp. n.** Late-tian, Egypt. OPPENHEIM, Palaeontographica 30 (331).—*P. icki* (293-4), (*Sureula*) *pamotanensis* (292-3), *rembangensis* (293), (*Drillia*) *palabuanensis* (294), *tjemoroensis* (295), *sangiranensis* (295), *madunensis* (296) **spp. n.** Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) 1.—*P. inaudita* (48), *veracruzana*, *angermanni* (60), *zapoteca*, *sealiae* (61) **spp. n.** Tertiary, Mexico. BÖSE, Mexico, Bol. Inst. Geol. 22.—*P. rascorum* **sp. n.** Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. geol. Ges. 58 (90).—*P. (Drillia) tabatensis*, *ojiensis* (15), *sagamiensis*, *parra* (16) **spp. n.** Tertiary, Japan TOKUNAGA, Tokyo, J. Coll. Sci. 21.—*P. (Sureula) hypersenonia*, (180-1), *deperdita* (181-2), (? *Clathurella*) *orba* **spp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica 52.—*P. amae* HÖ. Au., *badensis* M. HÖ., *coronata* Mstr., *eugeniae* HÖ. Au., *irenae* HÖ. Au., *neugeboreni* HÖ. Au., *rotata* Brocc., *subcoronata* Bell., *trifasciata* M. HÖ., *vermicularis* Grat., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (52-3).

†*Pleurotomaria lindhorstiensis* **sp. n.** Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. 45 (86).—*P. (?) verticillata* **sp. n.** Hackberry Group, Iowa, WEBSTER, Iowa Nat. 2 (2-4).—*P. alata*, *bicincta* figd., SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. 19 (232).

Pleurotomella v. *Daphnella*, *Pleurotoma*.—*P. (?) bullioides* (178), *gregaria* (180), *lusitaniae* (181) **spp. n.** European seas, SYKES, London, Proc. Malac. Soc. 7.

†*Pliciscula amandae* (96), *infans* (96-7), *microscopica* (97) **spp. n.** Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54.

†*Pollia* v. *Cantharus*.

†*Pollia perpusilla* (31-2), *trigonostoma* (31) **spp. n.** Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54.

†*Polytremaria (?) solitaria* **sp. n.**, CUMINGS, Indiana, Rep. Dept. Geol. Nat. Res. 30.

Pomatias septemspiralis, nervous system, AEBERHARDT, Bern, Mitt. naturf. Ges. 1905 (119-20).—*P. (Eupomatias*

mostarensis **sp. n.** Bosnien; *P. (E.) elegans* **subsp. n.** *imoschiensis*, WAGNER, Frankfurt a. M., NachrBl. D. malakozool. Ges. 38.

Pontiothauma minus, *pacci* **spp. n.** Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. 18 (159).

†*Potamides*, v. *Cerithium*.—Revision of *P. tricarinum* group, BOUSSOC, Paris, Bul. Soc. Geol. 5 (669-78).—*P. cheribonensis* **sp. n.** Java, MARTIN, Leiden, Samml. geol. Reichsmus. (2) 1 320-1).—*P. (Tympantomus) semseyi* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica 52 (162-3).—*P. corrugatus* (Brong.), Eocene, Monte Postale, figd., FABIANI, Padova, Atti Ac. Ven.-Trent. 2 (149).

†*Pseudochemnitzia acicula* (Dub.) Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (98).

†*Pseudoliva zitteli* (169-70), *praeursor* (170-1) **spp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica 52.

†*Pseudomelania sutherlandi* Bail. (312) re-described and figured; *P. (Oonia)* **sp.** (313), Woods, Cape Town, Ann. S. Afric. Mus. 4.

Pseudopomatias eos **sp. n.** Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. 57 (728).

†*Pseudotoma multisulcata* (65), *tornatella* (64), *xeniae* (63-4) **spp. n.** Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54.

Pterocyclus aspersus **sp. n.** Sumatra, BULLEN, London, Proc. Malac. Soc. 7 (129).

†*Ptychomphalus missouriensis* **sp. n.** Glen Park Limestone, WELLER, St. Louis, Mo., Trans. Acad. Sci. 16 (435-71).

†*Pugnellus auriculatus* **sp. n.** Cretaceous, Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. 4 (319).

Pupina clara (244), *subpolita* (245) **spp. n.** Australia; *P. pincticola* **var. n.** Queensland, FULTON, Ann. Mag. Nat. Hist. 17 (244).—*P. douvillei*, *verneai* **spp. n.** DAUTZENBERG & FISCHER, J. Conchyliol. 53 (410).

Pupinella densecostata, *simplex* **spp. n.** Queensland, FULTON, Ann. Mag. Nat. Hist. 17 (245).

Purpura striata subsp. n. *bollonsi* Kermadec Is. (331), SUTER, Wellington, Trans. N. Zeal. Inst. **38**.—*P. suecincta* Martyn, oviposition, HEDLEY, Sydney, N.S.W. Proc. Linn. Soc. **30** (533).

†*Purpura exilis* Ptsch. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (34).

Pusia v. *Vulpecula*.

Pyramidella (*Tiberia*) *japonica*, (*Aetaeopyramis*) *digitalis*, (*Iphia*) *lischkei*, (*Phareidella*) *moftati* (*Obeliscus* *clarulus* A. Adams), *dunkeri* (*Odostomia* *fasciata* Dunker) spp. n.; *P. pusilla* subsp. n. *jacksonensis*, *P. (Cingulina)* *cingulata* subsp. n. *laticingula*, DALL & BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. **30**.—*P. (Synnola)* *temuiplicata* sp. n. New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38** (296).—*P. rosea* v. *Columbella pseutes*.

†*Pyramidella junghuhnii* sp. n. Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) **1** (321-2).—*P. (Obeliscus)* *insolitus* sp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (153).

Pyrazus herculeus Martyn, radula, geographical distribution, HEDLEY, Sydney N.S.W., Proc. Linn. Soc. **30** (529-33).

†*Pyrenella* v. *Cerithium*.

Pyrgiseulus v. *Turbonilla*.

Pyrgostylis v. *Turbonilla*.

†*Pyrgula brusinae*, *margaritiformis* spp. n. Mäotisches Becken, ANDRUSSOW, St. Petersburg, Verh. Russ. mineral. Ges. **43** (289-451).

Pyrgulina v. *Odostomia*.

†*Pyropsis africana* sp. n. Cretaceous, Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. **4** (322).

†*Ranella emmae* Bttgr., *gigantea* Link: *papillosa* Pusch; *poppelaeki* M. Hö., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (39-40).

†*Raphistomina undulatum* sp. n. RAYMOND, Pittsburgh, Pa., Ann. Carnegie Mus. **3**.

Realia (*Omphalotropis*) *aurora* (249), *macromphala* (250), (*Hydrocena*) *callosa* (252) spp. n. Mariannes, BAVAY, J. Conchyliol. **53**.—*R. aurora*, *macromphala* are synonyms of *Omphalotropis*

elongata, *quadrasi*, BAVAY, J. Conchyliol. **54** (10).

†*Renauxia* is a synonym of *Glaucomia* Gieb., REPELIN (31).

†*Rhaphitoma bujturana* (88), *clarulina* (86-7), *gertrudae* (83-4), *polyacantha* (82-3), *subfusiformis* (85-6), *tumida* (87-8) spp. n. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54**.

Rhiostoma morleti sp. n. Indo-China, DAUTZENBERG & FISCHER, J. Conchyliol. **53** (429).

†*Ricinula inconstans* (Michti.), Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (34).

†*Rimella* v. *Rostellaria*.

Rissoia, note, KESTEVEX, Zool. Anz., **30** (823).—*R. emblematica*, *pulvillus* spp. n. Sydney, HEDLEY, Sydney, N.S.W. Proc. Linn. Soc. **30** (526).—*R. filocincta*, sp. n. off Sydney, 300 f., HEDLEY & PETTERD, Sydney, N.S.W., Rec. Austr. Mus. **6** (217).—*R. monterosatoi* sp. n. Gulf of Gabes, PALLARY, J. Conchyliol. **54** (98).—*R. pingue* sp. n. New Zealand, WEBSTER, Wellington, Trans. N. Zeal. Inst. **38** (307).—*R. (Ceratia)* *turquati* sp. n. Antarctic, LAMY, Bul. Muséum, Paris **11** (479).—*R. paradoxa* Monterosato varr. n. *seminodosa*, *pallaryi*, PALLARY, J. Conchyliol. **54** (96).

†*Rissoia septentrionalis* (26), *meridionalis*, *subcylindrica* (27) spp. n. Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. **21**.

Rissoina durbanensis (47), *shepstonsensis* (48) spp. n. South Africa, SMITH, Ann. Natal Govt. Mus. **1**.

†*Rissoina biploca*, *hoheneggeri*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).

†*Rostellaria*? *pachundakii* (289-90), (*Rimella*) *aegyptiaca* (294-5), *libyca* (295) spp. n. Tertiary, Egypt, OPPENHEIM, Palaeontographica **30**.—*R. patagonensis*, *rothi* spp. n. Patagonia, IHERING, Revist. Mus. La Plata **11** (238-40).—*R. (Hippocrene)* *subtilis* sp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (166).—*R. dentata* Grat., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (37).

†*Rostellites capensis* sp. n. Cretaceous, Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. **4** (327).

†*Rouaultia lapugyensis* (Ch. May.), Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (65).

†*Salpingostoma boreale* **sp. n.** Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. **14** (49F).

†*Sandbergeria* v. *Cerithium*.

Scala durbanensis **sp. n.** South Africa, SMITH, Ann. Natal Govt. Mus. **1** (49).—*S. lerifoliata* **sp. n.** New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38** (295).—*S. louei* **sp. n.** California, DALL, Nautilus **20** (44).—*S. nepeanensis* (1), *translucida* (2) **spp. n.** Victoria, GATLIFF, Melbourne, Proc. R. Soc. Viet. **19**.—*S. platypleura*, *acanthopleura* (145), *valida* (147), *invalida* (148) **spp. n.** South Australia, VERCO, Adelaide, S. Aust., Trans. R. Soc. **30**.

†*Scala herthae* (92-3), *brandenburgi* (94-5), *xeniae* (93-4) **spp. n.** Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54**.—*S. ornata* Bail. Redescribed and figured, WOODS, Cape Town, Ann. S. Afric. Mus. **4** (314).

Scalaria canephora, (*Cirsotrema*) *bona* **spp. n.** Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7** (70).

†*Scalaria* (*Cirsotrema*) *quaasi* (232-3), *mokattamensis* (233), *beyrichi* [Mayer-Eymar, MS] (233), (*Parriscala*) *cossmanni* (234), (*Aerilla*) *aegyptiaca* (236), *nilotica* (236) **spp. n.** Tertiary, Egypt, OPPENHEIM, Palaeontographica **30**.

Scaphella auctt. non Swains. v. *Adelomelon* **gen. n.**

Scutellina calva, *alboradiata* **spp. n.** S. Australia, VERCO, Adelaide, S. Aust., Trans. R. Soc. **30** (217).

Sequenzia polita **sp. n.** S. Australia, VERCO, Adelaide, S. Aust., Trans. R. Soc. **30** (222).

†*Semifusus* ? (*Mayeria* ?) **sp.**, WOODS, Cape Town, Ann. S. Afric. Mus. **4** (324).

Seminella v. *Columbella*.

†*Sigaretus blanchenhorni* **sp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (263).—*S. mexicanus* **sp. n.** Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. **22** (57).—*S. striatus* De Serres., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (91).

Simpulum v. *Cymatium*.

Sipho torrus Locard, figd., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (22).

Sistrum undatum Chemnitz **var. n.** *kieneri*, DAUTZENBERG & FISCHER, J. Conchyliol. **53** (395).

Solariella valida **sp. n.** Maio, Cape Verd Is.; *S. cancellata* Jeffr., figd., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (57-8).

†*Solariella affinis* (220-1), *fourtaui* (221-2), *humilis* (222), *pratzi* (222-3) **spp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica **30**.

†*Solarium cyclospirum* **sp. n.** Cretaceous, Hungary, PETIÖ, Palaeontographica **52** (132-3).—*S. subpatulum* (229-30) **sp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica **30**.—*S. villarelloii* **sp. n.** Tertiary, Mexico, BÖSE Bol. Inst. Geol. **22** (30).—*S. bailyi* Gabb. redescribed and figured, WOODS, Cape Town, Ann. S. Afric. Mus. **4** (315).

†*Soleniscus glaber* **sp. n.**, CUMINGS, Indiana, Rep. Dept. Geol. Nat. Res. **30**.

Somatogyrus biangulatus, *excavatus* **spp. n.** WALKER, Nautilus **19**.—*S. substriatus*, *humerosus*, *quadratus*, *strengi*, **spp. n.**, PILSBRY & WALKER, Nautilus **19**.—*S. tennesseensis*, *aldrichi* **spp. n.** United States, WALKER, Nautilus **19** (114-117).

†*Sparella* v. *Ancilla*.

Spirotropis clytotropis, (?) *megalacme*, (?) *mcivilli* **spp. n.** European seas, SYKES, London, Proc. Malac. Soc. **7** (183).

†*Stazzania* v. *Marginella*.

†*Straparollina circe* **sp. n.** Cambrian, China, WALCOTT, Washington, U.S. Nat. Mus. Proc. **29** (13).—*S. harpa*, colour markings, RAYMOND, Nautilus **19** (101-2).

†*Straparollus* v. *Euomphalus*.—*S. (?) exornatus* **sp. n.** Permian-Carboniferous, Italy, GORTANI, Paleontogr. Italica, **12** (60).

†*Streptochetus pulveris* **sp. n.** Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. Geol. Ges., **58** (85).

Strombus campbelli v. *Alaba*.

†*Strombus glaber* (319), *sondeianus* (319-20) **spp. n.** Java, MARTIN, Leiden

Samml. Geol. Reichsmus. (2) **1**.—*S. parvulus* **sp. n.** Cretaceous, Tripoli, KRUMBECK, Palaeontographica **53** (118-9).—*S. javanus* **var. n. semperi** Tertiary, Philippines, SMITH, Philippine J. Sci. **1** (629).—*S. bonellii* Brogn., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (37).

†*Strophostylus amplus, inflatus* (53F), *filicinctus* (54F) **spp. n.** Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. **14**.

†*Subulites harrodsburgensis* **sp. n.** CUMINGS, Indiana, Rep. Dept. Geol. Nat. Res. **30**.

Surcula v. *Pleurotoma*.—*S. varians* Suter v. *Columbella inconstans* (q.v.).

†*Surcula alterego* (54-5), *subserrata* (54) **spp. n.** Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54**.

Sveltia v. *Cancellaria*.

Sycotypus, mechanism of odontophore, HERRICK.

†*Syeum tournoueri* **sp. n.** Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. Geol. Ges. **58** (86).

Symnola v. *Pyramidella*.—*S. aperanta, clavellosa* **spp. n.** Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7** (73).

†*Symnola biarritzensis* **sp. n.** Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. Geol. Ges. **58** (81).

†*Tectus* v. *Trochus*.

†*Terebellum schweinfurthi* **sp. n.** Paleocene, Egypt, OPPENHEIM, Palaeontographica **30** (298).

Terebra (?) *dyseritos* **sp. n.** South Australia, VESCO, Adelaide, S. Aust., Trans. R. Soc. **30** (149).—*T. filmerae* **sp. n.** South Africa, SOWERBY, London, Proc. Malac. Soc. **7** (37).

†*Terebra subatorquata* **sp. n.** Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (22).—*T. tjilonganensis* (283), *butaciana* (284), *pamotanensis* (284-5), *iekei* (285), *jungluhni* (285-6), *talahabensis* (286), *sindangbaranensis* (286-7), *simplicissima* (287), *ejceta* (287) **spp. n.** Java, MARTIN, Leiden, Samml. geol. Reichsmus. (2) **1**.

†*Thersites* (?) *eossmanni* **sp. n.** Paleocene, Egypt, OPPENHEIM, Palaeontographica **30** (317-8).

Tiberia v. *Pyramidella*.

Titanopoma v. *Auritus*.

†*Toreula* v. *Turritella*.

Trifora cerea, shepstonensis **spp. n.** South Africa, SMITH, Ann. Natal Govt. Mus. **1** (43).

Triforis grimaldii **sp. n.** Teneriffe I. and Bôa Vista I. (C. Verd Is.), DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (41-2).

Triphora infelix **sp. n.** New Zealand, WEBSTER, Wellington, Trans. N. Zeal. Inst. **38** (307).

Tritonidea agalma **sp. n.** Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. **18** (164).

†*Tritonidea everwijnii* **sp. n.** Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) **1** (309-10).

†*Tritonium subgosaucicum, albini* **spp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (22-3).

Triria acutidentata, note on, BUTTON, Nautilus **19** (132).

Trochus camelophorus Cape Maria van Diemen, N.Z. (309), (*Clanculus*) *takapunaensis* Takapuna N.Z. (310) **spp. n.**, WEBSTER, Wellington, Trans. N. Zeal. Inst. **38**.—*T. cinerarius*, Trematode parasites; *Cerearia pachyzerea*, LESPÈS (168-9), *C. raullegeardi*, **sp. n.** (175-6), PELSENEER, **3**.

†*Trochus reussi* **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (41).—*T. maeoticus* **sp. n.** Mäotisches Becken, ANDRUSSOW, St. Peterburg, Verh. Russ. mineral. Ges. **43** (289-451).—*T. metrius* **sp. n.**, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).—*T. quadricoronatus* **sp. n.** Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. **45** (87).—*T. shinagawensis* (29), *angulatus* (30) **spp. n.** Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. **21**.—*T. (Basilissa) libycus* (224), (? *Gibbula*) *biochei* (224-5) **spp. n.** Tertiary, Egypt, OPPENHEIM, Palaeontographica **30**.—*T. (Monodonta) jungluhni* **sp. n.** Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) **1** (323-4).—*T. (Tectus) szerémensis* (105-6), (*Ziziphinus*) *schafhäutli* (106-7), (*Eutrochus*) *neumayri* (107-8), (*Gibbula*) *pilari* (108-9) **spp. n.** Cretaceous Hungary, PETHÖ, Palaeontographica **52**.

Trophon waipipicola **sp. n.** Waipipi, N.Z., WEBSTER, Wellington, Trans. N. Zeal. Inst. **38** (310).—*T. (Boreotrophon) planispina* **sp. n.** Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. **18** (165).

†*Trophon* (?) *isthmicus* **sp. n.** Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. **22** (59).—*T. capito* (Phil.), Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (16).

†*Turbo bitropistus* **sp. n.** ASCHER, Wien, Beitr. Pal. Geol. OestÜng. **19** (135-72).—*T. grangensis* **n. n.** for *T. hamiltonensis* Pritchard non Harris, PRITCHARD, Vict. Nat., Melbourne **23** (117).—*T. (? Collonia) lenzi* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (100-1).

Turbonilla subgenn. n. *Babella* for *Parthenia caelata* A. Ad., *Nisiturris* for *T. crystallina* **sp. n.**; *T. approximata*, *infantula*, *actopora*, *acosmia*, *garretiana* (*Olostomia sulcata* Garrett), (*Chemnitzia* *abseida*, (*Nisiturris*) *crystallina*, (*Pyrgisculus*) *candidissima* (*Dunkeria candida* A. Adams), (*Mormula*) *aulica* (*varicosa* Dunker), (*Lanceella*) *bella*, *peasei* (*Lancea elongata* Pease), (*Babella*) *caelator* (*Parthenia caelata* A. Adams) **spp. n.** DALL & BARTSCH, Washington, D.C., Smithsonian Inst., U.S. Nation. Mus. Proc. **30**.—*T. madriensis* **sp. n.** Antarctic, LAMY, Bul. Muséum, Paris **11** (481).—*T. (Pyrgostylis) delia* (73), *hermia* (74) **spp. n.** Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7**.

†*Turbonilla junghuhni, sindangbaranensis* **spp. n.** Java, MARTIN, Leiden, Samml. geol. Reichsmus. (2) **1** (322).—*T. paucicostulata* Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. **21** (22).

Turricula v. *Mitra*.

†*Turricula (Vulpecula) ickei* (305), (*Callithea*) *tjilonganensis* (305), *dijki* (306), (?) *gendinganensis* (306) **spp. n.** Java, MARTIN, Leiden, Samml. geol. Reichsmus. (2) **1**.—*T. (Mesorhytis) monilifera* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (179-80).

†*Turris* (?) *kaffraria* (Griesbach) re-described and figured, Woods, Cape Town, Ann. S. Afric. Mus. **4** (325).

Turrispira **sect. n.** of *Turritella* (q.v.), PETHÖ, Palaeontographica **52** (142-3).

†*Turritella*, ASCHER, Wien, Beitr. Pal. Geol. OestÜng. **19** (135-72).—**Sect. n.**

Turrispira (142-3) type *T. fallax* **sp. n.** Cretaceous, Hungary; *T. telegdiana* (137-8), *szerémensis* (138-9), *T. interposita* (110), (*Torcula*) *bicorrolata* (134-5), *sulcata-carinata* (136) **spp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52**.—*T. alamanica* **sp. n.** Miocène, Novotcherkassk, BOGATCHEW, St. Petersburg, Bull. Com. géol. **24** (159-88).—*T. cardenasensis, potosiana, waitzi* **spp. n.** Senonian, Cardenas, Mexico, BÖSE, Mexico, Bol. Inst. geol. **24** (62-5).—*T. cureti* (30), *tricincta* (30-1), *zekelii* (31) **spp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10**.—*T. pseudimbricataria* (241-2), *crocodili* (241-5), *fraudatrix* (246), *nilotica* (246 7) **spp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica **30**.—*T. septemcostata* (116), *turbo* (117) **spp. n.** Cretaceous, Tripoli, KRUMBECK, Palaeontographica **53**.—*T. tuxtepecensis* (31), *aguilerae* (32) **spp. n.** Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. **22**.—*T. (Zaria) bonci* Bail. remarks on, fig., Woods, Cape Town, Ann. S. Afric. Mus. **4** (317).

†*Turritoma* (?) *teuifilosa* **sp. n.** Palaeozoic, England, DONALD, Quart. J. Geol. Soc. **82** (570).

†*Tylostoma intermedium* **sp. n.** Mesozoic, Portugal, CHOFFAT, J. Conchyliol. **54** (39).

†*Typlis fistulosus* Brocc., *tetropterus* Bronn, *wenzelidesi* M. Hö., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (46).

†*Tympanotomus* v. *Potamides*.

Uromitra ebenus Lamarek **varr. n.** *debilis, striolata*, PALLARY, J. Conchyliol. **54** (83).

†*Uzita* v. *Nassa*.

Valvata subgenn. n. *Atropidina*, type *V. pulchella* Stud., *Liratina*, type *V. baicalensis* Dyb., *Megalovalvata*, type *V. grubei* Dyb., LINDHOLM, Frankfurt a. M., Nachrbl. D. malakozool. Ges. **38** (190).—*V. miera* **sp. n.** PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58**.—*V. sincera* **var. n.** *danielsi, bicarinata* **varr. n.** *perdepressa, connectans*, United States, WALKER, Nautilus **20** (25-32).

†*Valvata cholnokyi* **sp. n.** *piscinalis* Müll., figd., Tertiary, China, SCHLOSSER, Budapest, Ann. Mus. Nat. Hung. **4** (390-1).

†*Vermetus pulcher* **sp. n.** Tertiary, Mexico, BÜSE, Mexico, Bol. Inst. Geol. **22** (32).—*V. (?) Vermiculus* *tricarinatus* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (144).

†*Vermiculus* v. *Vermetus*.

†*Vespertilio* v. *Voluta*.

†*Vicarya callosa* **var. n.** *semperi* Tertiary, Philippines, SMITH, Philippine J. Sci., **1** (628).

Vicetia **gen. n.** type *Orula hautkeni* Heb. & Mun.-Ch., figd., FABIANI, Padova, Atti Ac. Ven.-Trent. **2** (150).

Vivipara chinensis **var. n.** *patris*, KOBELT in MARTINI & CHEMNITZ, Syst. Conch. Cab.—*V. costulata* Martens **varr. n.** *globosa*, *alta*, GERMAIN, Bul. Mus., Paris **12** (299).—*V. verus* occurrence near Hamburg, FRANCK, Bl. Aquarienkunde **17** (298–9).

†*Vivipara eastoni* gehört zu *Faunus* (*Eastonia* **subgen. n.**), ICKE & MARTIN, Leiden, Samml. Geol. Reichsmus. **8** (106–44).—*V. (Paludina) angularis* Müll., ob. Tertiär, China, SCHLOSSER, Ann. Hist.-Nat. Mus. Hung. **4** (394).

Voluta martensi **sp. n.** Magalhaen, STREBEL, Zool. Jahrb., Syst. **24** (124).—*V. papillosa* Swainson, var. KENYON, London, Proc. malac. Soc. **7** (6).—*V. arausaica* Soland., the type of *Harpulina* (q.v.) **gen. n.**

†*Voluta crassicosta* **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (19–20).—*V. radix*, (*Eopsephaca*) *sanurensis* **spp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (328).—*V. (Volutilithes) occulte-plicata* (176), (*Volutocorbis*) *exornata* (178–9) **spp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52**.—*V. (Vespertilio) tjilonganensis* **sp. n.** Java, MARTIN, Leiden, Samml. geol. Reichsmus. (2) **1** (302).—*V. taurina* Bon., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **57** (5).

Volutilithes v. *Voluta*.—Notes on, NEWTON, London, Proc. Malac. Soc. **7** (100).—*V. petrosus*, phylogeny, SMITH, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58** (52–76).

†*Volutilithes fanivelonensis* **sp. n.** BOULE & THÉVENIN, Ann. Paléont. **1**.—*V. inornatus* **sp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (329).—*V.*

sp., Woods, Cape Town, Ann. S. Afric. Mus. **4** (325).

†*Volutilithopsis* Pethö MS. a synonym of *Volutocorbis* Dall, PETHÖ, Palaeontographica **52** (175–9).

†*Volutocorbis* v. *Voluta*, *Volutilithopsis*.

Volutospina **gen. n.** of Volutidae type *Conus spinosus* L., NEWTON, London, Proc. Malac. Soc. **7** (103).

Volvaria v. *Marginella*.

†*Volvarina* v. *Marginella*.

Volvula compacta **sp. n.** Gulf of Oman, MELVILL, London Proc. Malac. Soc. **7** (79).

Vulpecula v. *Turricula*.—*V. (Pusia) biconica* **sp. n.** New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38** (389).

†*Xenophora aegyptiaca* **sp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (258–9).

†*Zaria* v. *Turritella*.

†*Ziziphinus* v. *Trochus*.

(b) *Heteropoda*.

Review of species hitherto described, TESCH, **1, 2**.

Collections of "Siboga" described; notes on anatomy, TESCH, **1**.

Atlanta affinis (53), *oligogyra* (54–5) **spp. n.** Malay Archipelago; notes on anatomy and figures of other species, TESCH, Rés. explor. Siboga **51**.

Cardiapoda trachydermon (77–8), *sublaevis* (78), *acuta* (79) **spp. n.** Malay Archipelago; anatomical notes, TESCH, Rés. explor. Siboga **51**.

Carinaria notes on anatomy and figures of species; *C. macrorhynchus* (72–4) **sp. n.** Malay Archipelago, TESCH, Rés. explor. Siboga **51**.

Euryops **subgen. n.** of *Pterotrachea* q.v., TESCH, Rés. explor. Siboga **51** (81–9).

Oxygurus rangi (Soul.) figured; notes on anatomy, TESCH.

Pterotrachea challengeri (84–5), *intermedia* (86), *microptera* (87), (*Euryops* **subgen. n.**) *mutabilis* (88), *xenoptera* (88–9), *orthophthalmus* (89) **spp. n.** Malay

Archipelago; anatomical notes, TESCH, Rés. explor. Siboga **51**,

(c) *Opisthobranchiata*.

Fauna of Monterey Bay, California MACFARLAND, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish. **25**.

Nudibranchiata, notes on anatomy, &c., BERGH, Zool. Jahrb., Jena, Syst. **23** (739-42).—Anatomy, ELIOT, **2**.—British species, ELIOT, **5**.—of S. India and Ceylon, ELIOT, London, Proc. Zool. Soc. **1906** (636-91, 999-1003).

Tritoniidae, gen. n. v. *Chareotia*, *Tritoniopsis*.

Seyllacidae, notes on family, ELIOT, London, Proc. Zool. Soc. **1906** (674-6).

Phyllirhoeidae, gen. n. v. *Ctilopsis*.

Doridopsidae, note on family, ELIOT, **3**, (660-1).

Phyllidiidae, note on family, ELIOT, London, Proc. Zool. Soc. **1906** (673-4).

Aeolididae, gen. n. v. *Guy-calvoria*, *Notaeolidia*.

Pleurophyllidiidae, notes on family, ELIOT, London, Proc. Zool. Soc. **1906** (676-85).

Elysiidae, notes on, ELIOT, London, Proc. Zool. Soc. **1906** (688-90).

†*Acera* v. *Bulla*.

†*Aerocolpus* v. *Bulla*.

Actacon eraticulatus sp. n. New Zealand MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38** (281).—*A. roseus* sp. n. Sydney, HEDLEY, Sydney, N.S.W. Proc. Linn. Soc. **30** (535).

†*Actacon*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).—*A. multilincatus* sp. n. Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. **45** (93).—*A.* sp., Woods, Cape Town, Ann. S. Afric. Mus. **4** (328).

†*Actaconella* D'Orb., notes on the genus; *A. coniformis*, *acutissima*, *occidentalis*, *inconstans*, *irregularis*, *brevis*, *planilateris*, *petosiana*, *variabilis* spp. n. Senonian, Cardenas, Mexico, BÖSE, Mexico, Bol. Inst. geol. **24** (74-91).—*A. parvisima* sp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (17-8).—*A. (Volulina) inflata* sp. n. Cretaceous, Hungary, PETIÖ, Palaeonto-

graphica **52** (183-4).—*A. (Trochaetacon)* sp., Woods, Cape Town, Ann. S. Afric. Mus. **4** (328).

†*Actaconina haugi* sp. n., ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).

Aeolis v. *Eolis*.

Amphorina pallida sp. n. Cape Verd Is., ELIOT, London, Proc. Malac. Soc., **7** (155).

Aplysia, digestion, ARIOLA, Genova, Atti Soc. ligustica sci. nat. geogr. **17** (110).—*A. punctata*, circulatory system, BLATIN & VLÉS, Arch. zool., Paris **5** notes (xc-cii).

†*Atys beberkiriana* sp. n. Java, MARTIN, Leiden, Samml. geol. Reichsmus. ser. 2, **1** (283).

†*Bulla desertorum* (339-40), (*Haminea*) *plicatularum* (338), (*Cylichnina*) *nilotica* (339), (*Aerocolpus*?) *oasidis* (339), (? *Acera*) *coelestini* (340), (*Acera*) *striatella*, (340 I), *stromeri* (341), (*Scaphander*) *cossmanni* spp. n. Tertiary, Egypt, OPPENHEIM, Palaeontographica **30**.

Caliphylla mediterranea Costa, alimentary and reproductive organs, morphology and physiology, BRÜEL.

Casella, note on genus, ELIOT, London, Proc. Zool. Soc. **1906** (644).

Chareotia gen. n. of Tritoniidae for *C. granulosa* sp. n. Antarctic, VAYSSIÈRE, Bul. Mus., Paris **12** (148).

Chromodoris A. & H., note on genus; *C. amabilis* (Kelaart), *diardii* (Kelaart), *fidelis* (Kelaart), *gleniei* (Kelaart), *preciosa* (Kelaart), *tennentana* (Kelaart), figd.; *C. semperi* Bergh = *C. diardii* (Kelaart), ELIOT, London, Proc. Zool. Soc. **1906** (640-4).

†*Cimulia ineisa* sp. n. Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. **45** (93).

Corypheila beaumonti sp. n. Britain, ELIOT, Plymouth, J. Mar. Biol. Ass. **7** (361).

Ctilopsis gen. n. aff. *Phyllirhoe*; *C. pieteti* sp. n. Amboyne, ANDRÉ, Rev. Suisse Zool. **14** (72).

Cylichna collyra sp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7** (79).—*C. simplex* sp. n. New Zealand, MURDOCH & SUTER, Wellington, Trans.

N. Zeal. Inst. **38** (279).—*C. bushirensis* Melv. & St. is a *Scaphander*, MELVILL, London, Proc. Malac. Soc. **7** (79).

†*Cylichna musashiensis*, *acuta* (32), *obtus* (33), Post Tertiary, Japan, TOKUNAGA, J. Coll. Sci. **21**.

†*Cylichnina* v. *Bulla*.

Doridopsis, note on genus (661-3); *D. nigra*, anatomy (663-5), ELIOT, London, Proc. Zool. Soc. **1906**.

Doriopsilla Bergh, anatomy, ELIOT, Leeds, J. Conch. **11** (366).—Note on genus; *D. miniata* (A. & H.), *reticulata* (Cock. & Eliot), anatomy, ELIOT, London, Proc. Zool. Soc. **1906** (663-6).

Doris, several species described by Kelaart but of doubtful identity figured, ELIOT, London, Proc. Zool. Soc. **1906** (666-7).

Doto obscura **sp. n.** Cape Verd Is., ELIOT, London, Proc. Malac. Soc. **7** (152).

Elysia caerulea Kelaart, *grandifolia* Kelaart, *punctata* Kelaart, figd., ELIOT, London, Proc. Zool. Soc. **1906** (689-90).

Eolis nematocysts, CUÉNOT, Paris, C.-R. soc. biol. **61** (541-543); Réunion biologique de Nancy **1906** (59-61).—*E. papillosa* Linné **var. n. albina**, *alderi* Cocks. **var. n. albida**, DAUTZENBERG & DUROUCHOUX, Feuille jeunes natural. Paris **36**.—*E. effulgens* Kelaart, *husseyi* Kelaart, *nodulosa* Kelaart, *paulinae* Kelaart, *smedleyi* Kelaart, *tristis*, figd., ELIOT, London, Proc. Zool. Soc. **1906** (685-6).

†*Eriptycha perampla* **sp. n.** Cretaceous, Pondoland, WOODS, Cape Town, Ann. S. Afric. Mus. **4** (329).

Geitodoris reticulata **sp. n.** Cape Verd Is., ELIOT, London, Proc. Malac. Soc. **7** (140).

Guy-valvoria **gen. n.** of Aeolididae for *G. francoisi*, **sp. n.** Antarctic, VAYSSIÈRE, Bul. Mus., Paris **12** (147).

Halgerda Bergh, note on genus, ELIOT, London, Proc. Zool. Soc. **1906** (645).

Haminea v. *Bulla*.—Notes on; *H. simillima* anatomy, ELIOT, Leeds, J. Conch. **11** (310-2).

Kalinga A. & H., notes on genus; *K. ornata* A. & H., notes on anatomy, ELIOT, London, Proc. Zool. Soc. **1906** (670-3).

Kentrodoris Bergh, note on genus, ELIOT, London, Proc. Zool. Soc. **1906** (649-51).

Linguella, anatomical notes; ELIOT, **3** (680-5).

Lobiger, notes on; *L. nevilli*, PILSBRY, anatomy, ELIOT, Leeds, J. Conch. **11** (298-300, 306-10).

Lophocercus, notes on (298-300); anatomy *L. viridis* (301-5); sieboldi (301-6), ELIOT, Leeds, J. Conch. **11**.

Newnesia, notes on anatomy, etc., ELIOT, Leeds, J. Conch. **11** (312-5).

Notaeolidia **gen. n.** for *N. gigas* (520), *purpurea* (524) **spp. n.** Antarctic, ELIOT, Edinburgh, Trans. R. Soc. **41** (520).

Phidiana longicirra **sp. n.** Cape Verd Is., ELIOT, London, Proc. Malac. Soc. **7** (156).—*P. unilineata* (A. & H.) radula figd., ELIOT, London, Proc. Zool. Soc. **1906** (685).

Philine constricta (278) *umbilicata* (279) **spp. n.** New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38**.—*P. aperta*, Entwicklung unter künstlichen Bedingungen, SCHIMKEWITSCH.

Phyllidia zeylanica Kelaart, figd., ELIOT, London, Proc. Zool. Soc. **1906** (674).

Phylliroe bucephala, anatomy, VESSICHELLI, Mitt. zool. Stat. Neapel **18** (105-135).

Phyllobranchus orientalis (Kelaart) anatomy, etc., ELIOT, London, Proc. Zool. Soc. **1906** (686-8).

Platydoris, note on genus, ELIOT, London, Proc. Zool. Soc. **1906** (645-9).

Pleurophyllidia, notes on anatomy; *P. formosa* (Kelaart) figd., ELIOT, London, Proc. Zool. Soc. **1906** (679-80).

Polycera quadrilineata Müller **var. n. nigrolineata**, DAUTZENBURG & DUROUCHOUX, Feuille jeunes natural., Paris **36**.

Ringiula deleta **sp. n.** New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38** (280).

†*Ringiula buccinea* Brocc., *grateloupi* d'Orb., Miozän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (5).

Rostanga evansi **sp. n.** Cape Verd Is., ELIOT, London, Proc. Malac. Soc. **7** (144).

Samla bicolor (Kelaart) figd., ELIOT, London, Proc. Zool. Soc. **1906** (685).

Scaphander v. *Bulla*, *Cylichna*.—*S. vicinus* **sp. n.** Bay of Bengal, SMITH. Ann. Mag. Nat. Hist., London **18** (248).

Scyllaea marmorata Ald. & Hancock, note on anatomy, ELIOT, **3** (675-6).

Staurodoris atypica **sp. n.** Cape Verd Is., ELIOT, London, Proc. Malac. Soc. **7** (131).

Stiliger? *viridis* (Kelaart), figd. ELIOT, London, Proc. Zool. Soc. **1906** (686).

Telys aperta (51). *burnupi* (51) **spp. n.** South Africa; anatomy *T. aperta*, *burnupi*, *nigrocincta*, *elongata*, BURNE, London, Proc. Malac. Soc. **7**.—*T. leporina*, with parasitic larva of *Nymphon*, MERTON.

Thoradisa [*Thordisa*] Bergh, note on genus, ELIOT, London, Proc. Zool. Soc. **1906** (654-7).

Trevelyana, note on genus, ELIOT, London, Proc. Zool. Soc. **1906** (667-70).

Trippa, note on genus; *T. luteola* (Kelaart), *spongiosa* (Kelaart), *monsoni* ELIOT, figd., ELIOT, London, Proc. Zool. Soc. **1906** (657-60).

Tritonia appendiculata **sp. n.** Antarctic, ELIOT, Edinburgh, Trans. R. Soc. **41** (526).—*T. moesta* Bergh, **var. n.**, ELIOT, London, Proc. Malac. Soc. **7** (133).

Tritoniopsis **gen. n.** for *T. brucei* **sp. n.** Antarctic, ELIOT, Edinburgh, Trans. R. Soc. **41** (530).

†*Trochaetaeon* v. *Actaeonella*.

†*Volroulina* v. *Actaeon*.

(d) Pteropoda.

German plankton expedition collections described, SCHIEMENZ, *Ergebn. Plankt. Exped. II. F. b.*

German Antarctic expedition collections described, MEISENHEIMER, **1**.

Monograph of northern plankton species, LENZ, *Nordisches Plankton*. **5**.

Carolina, Abildgaard, notes on, HEDLEY, **5**; SYKES, **1**.

†*Conularia pyramidalis* **var. n. jerrisensis** Palaeozoic, New York, SHIMER, Albany, N.Y., St. Educ. Dept., Mus. Bull. **80** (173-269).

Fowlerina **gen. n.**, *F. zetesios* **sp. n.** Bay of Biscay, PELSENEER, London, Trans. Linn. Soc. **10** (149).

†*Hyalaea tricuspida* **sp. n.** California, RIVERS, Los Angeles, Bull. So. Cal. Acad. Sci. **3** (69-72).

†*Hyolithes eybele*, *daphnis*, *delia* **spp. n.** Cambrian, China, WALCOTT, Washington, U.S. Nation. Mus. Proc. **29** (17-8).

†*Orthotheca eyrene*, *daulis*, *delphus*, *doris* **spp. n.** Cambrian, China, WALCOTT, Washington, U.S. Nation. Mus. Proc. **29** (18-21).

Peraelis brevispira **sp. n.** Bay of Biscay, PELSENEER, London, Trans. Linn. Soc. **10** (146).—*P. apicifidra*, *depressa* **spp. n.** Atlantic, MEISENHEIMER, Pteropoden deutsch. Südpolar-Exp. (122, 125).

†*Seenella clotho* **sp. n.** Cambrian, China, WALCOTT, Washington, U.S. Nation. Mus. Proc. **29** (12).—*S. ? dilatatus* **sp. n.** Cambrian, China, WALCOTT, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. **30** (563, &c.).

†*Stenotheca clivius* **sp. n.** *S. rugosa* **varr. n.**, Cambrian, China, WALCOTT, Washington, U.S. Nation. Mus. Proc. **29** (15-16).—*S. ? simplex* **sp. n.** Cambrian, China, WALCOTT, Washington, D.C., U. S. Nation. Mus. Proc. **30** (563).

(e) Pulmonata.

Fauna of Europe, KOBELT in ROSS-MÄSSLER, *Iconogr. Land- Süßw. Moll.* **12**.

Fauna of Philippines, MÖLLENDORF in SEMPER, *Reis. Archip. Philipp.*, *Wiss. Result.*, **10**, H. 2.

Monograph of Achatinidae, Stenogyrinae and Coelioxinae continued, PILSBRY, *Man. Conch.* **18**.

Distribution of slugs; HEYNEMANN, Frankfurt a. M., *Abh. Senckenb. Ges.* **30** (1-92).

Monograph of British slugs continued. TAYLOR, *Monogr. Land. & Freshw. Moll. British Isles* **12**.

Morphology of mantle organ, Soós, Állatt. Közlem. Budapest. **5** (25-47).

Zonitidae includes *Pseudopartula* q.v.

Endodontidae **gen. n.** v. *Radiodiscus*.

Limacidae, means of destruction, DU BUYSSON, *Feuille jeunes natural.* **36** (168).

Basommatophora gen. n. v. *Amphigyra*—of *Cariuthia*, GALLENSTEIN.

Limnaeidae, gemm. n. v. *Neoplanorbis Ptychogyra*.

Auriculidae gen. n. v. *Myosotella*—notes on European, MONTEROSATO, 1.—probably includes *Dejanira* Stoliczka, PETHÖ, *Palaeontographica* 52 (122-6).

Achatina jacobii sp. n. Mashonaland, DA COSTA, London, *Proc. Malac. Soc.* 7 (11).

Achatinellastrum dixonii, *hepaticum latizona* spp. n. Hawaiian Is.; *A. mighelsiana* var. n. *martensi*, BORCHERDING, *Zoologica* 48.

Agriolimax cypricus sp. n. Cyprus, SIMROTH, Frankfurt a. M., *NachrBl. D. malakozool. Ges.* 38 (86).—*A. pentheri* sp. n. Asia Minor, BABOR, Wien, *Ann. Nat. Hist. Hofmus.* 20 (293).

Alexia v. *Myosotella*.

Amalia cyprica sp. n. Cyprus, SIMROTH, Frankfurt a. M., *NachrBl. D. malakozool. Ges.* 38 (90).—*A. marginata*, distribution in W. Germany, LE ROI, Münster, *Jahresber. ProvVer. Wiss.* 34 (40-1).

Amastra montana, *rubristoma*, *semi-nuda*, *conica*, (*Laminella*) *sinistrorsa*, *laeva*, Hawaiian Is., BALDWIN, *Nautilus* 19 (135-9).

Amphidromus hecryanus (Mousson) figd., BÜLOW, Frankfurt a. M., *NachrBl. D. malakozool. Ges.* 38 (196-200).

Amphigyra gen. n. (49) of *Basommatophora* for *A. alabamensis* sp. n. (50) United States, PILSBRY, *Nautilus* 20.

Amphiscopus v. *Buliminus*.

Anceya rufocincta sp. n. Lake Tanganyika, SMITH, London, *Proc. Zool. Soc.* 1906 (183).

Ancylus tanganyicensis sp. n. Lake Tanganyika, SMITH, London, *Proc. Zool. Soc.* 1906 (184).—*A. capuloides*, nervous system, AEBERHARDT, Bern, *Mitt. Naturf. Ges.* 1905 (125).

Anisospira subgen. n. *Dissotropis*; *A. (D.) stearnsi*, *blandi* spp. n. America, BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. *Proc.* 31.

Anostoma, notes on name, PILSBRY, *Nautilus* 20 (11).

Ariolimax columbianus, physiology of pedal nerves, JENKINS & CARLSON.

Bacillum orthoceras subsp. n. *austeni*, PILSBRY, *Man. Conch.* 18.

Belgrandia lafayi sp. n., CAZIOT in LAFAY, Mâcon, *Bul. Soc. hist. nat.* 2 (217).

Bifidaria subgen. n. *Chacnaxis*; *B. tuba* sp. n. S. W. United States, PILSBRY & FERRISS, Philadelphia, Pa., *Proc. Acad. Nat. Sci.* 58.—*B. pentodon* and allies, VANATTA & PILSBRY, *Nautilus* 19 (121-8).—*B. pentodon*, *tappaniana*, notes, STERKI, *Nautilus* 19 (134-5).

Bocourtia Mabilie, is a young *Bulimulus*, ANCEY, *J. Conchyliol.*, Paris 53 (317).

Bostrichocentrum v. *Holospira*.

Brachypodella, PILSBRY, *Nautilus* 20 (47).

Buliminus pharangensis (Fruhstr.) sp. n. Indo China, DAUTZENBERG & FISCHER, *J. Conchyliol.* 53 (367).—*B. detritus* subsp. n. *croaticus*, KORMOS, Frankfurt a. M., *NachrBl. D. malakozool. Ges.* 38.—*B. detritus*, nervous system, AEBERHARDT, Bern, *Mitt. Naturf. Ges.* 1905 (126-7).—*B. (Amphiscopus) ridens* sp. n. Asia Minor, NÄGELE, Frankfurt a. M., *NachrBl. D. malakozool. Ges.* 38.—*B. (Mirus) pseudoribex* (12), (*Subzebrinus*) *stenostomus* (17) spp. n. China, ANCEY, *J. Conchyliol.* 54.—*B. (S.) dautzenbergi* nom. n. for *B. joussaumei* Smith preoce. ANCEY, *J. Conchyliol.* 53 (262).—*B. rhombostomus* Pfeiffer var. n. *pupoidea* DAUTZENBERG & FISCHER, *J. Conchyliol.* 53 (367).—*B. (Chondrulus) scapus* Parr. var. n. *cylin-drata*, (*Zebrina*) *funkii* Bttgr. var. n. *amanica*, Asia Minor, NÄGELE, Frankfurt a. M., *NachrBl. D. malakozool. Ges.* 38.

Bulimulus dealbatus subsp. n. *ozarkensis*, *pecosensis*, S.W. United States, PILSBRY & FERRISS, Philadelphia, Pa., *Proc. Acad. Nat. Sci.* 58.—*B. citrimellus* and *scitulus* are distinct, FULTON, *Ann. Mag. Nat. Hist.*, London 17 (148).—Notes on spp. of Mabilie, ANCEY, *J. Conchyliol.* Paris 53 (310-27).—*B. dormani*, food habits, SELLARDS, *Science* 24 (469-70).

Bulimus acutus Müll., habitat ANFRIE.

†*Bulimus cannati* sp. n. Tertiary, France, CAZIOT, Béziers, *Bull. soc. étud. sci. nat.* 27 (17).

Bulinus v. *Limnaea*.

Burtoa nilotica, anatomy, REYNELL, London, Proc. malac. Soc. **7** (197).

Camaena mansuyi sp. n. Indo China, DAUTZENBERG & FISCHER, J. Conchyliol. **53** (357).—*C. cinctricosa* Müller var. n. *connectens*, DAUTZENBERG & FISCHER, J. Conchyliol. **53** (356).

Campylaea v. *Helix*.—*C. thracica* (16), Philippopol, *subsetosa* (17), *frangepanii* (53) Welebit spp. n.; *C. nikitai* var. n. *fagorum* (61) Montenegro, *trizona* var. n. *rhodopensis*, *setulosa* var. n. *spelaea*, ROSSMÄSSLER, Leonographie **12**.

Cantareus (or *Tapada*) *aperius* Born, HOMIGMANN, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (44-5).

Caraculus v. *Pleurodonta*.

Carychium exile var. n. *canadense*, CLAPP, Nautilus **19** (138-40).

Cerion, evolution, PLATE, Verh. D. zool. Ges. **16** (127-138).

Chaenaxis subgen. n. of *Bifidaria*, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58**.

Chloritis, notes on species; *C. eduardi* (41), *ponsonbyi* (42) Moluccas, *macrostoma* (42) Bangaya, *subtilis* (44) German New Guinea, *fausta* (45) New Macklenberg, *conjuncta* (47), *fraterna* (47), *exigua* (48) New Ireland, *cumingi* (48) New Guinea *norocambria* (49), *disjuncta* (49) New South Wales, *layardi* (49) Torres Straits spp. n.; *C. unguiculina* var. n. *fusca* (41) Buru, GUDE, London, Proc. Malac. Soc. **7** (40-50).—*Chloritis*, notes on species; *C. beddomei* (105) *holoserica* New Guinea, *teres* (106) New Ireland, *fraudulenta* (107) New Guinea, *challengeri* (108), *astacus* (108), *agamemnon* (108) Queensland, *menso-nensis* (109) Tonkin, *rufofasciata* (109), *sykesi* (110) Sumatra, *eurychasma* (110) Sjerah I., N. of Tenimber spp. n., GUDE, London, Proc. Malac. Soc. **7**.—*C. heteromphalus*, notes, PILSBRY, London, Proc. malac. Soc. **7** (196).—*C. edwardi*, note, ANCEY, Nautilus **20** (47).

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Clausilia lamothiei sp. n. Yunnan, ANCEY, J. Conchyliol. **54** (21).—*C. lante-noisi* (368), *larillei* (369) spp. n. Indo China, DAUTZENBERG & FISCHER, J. Conchyliol. **53**.—*C. planasiensis* sp. n. Elba, POLLONERA, Torino, Boll. Musei Zool. anat. **20** No. 517 (8).—*C. robustior* sp. n. Sumatra, BULLEN, London, Proc.

Malac. Soc. **7** (127).—*C. roth-schildi* sp. n., Abyssinia, NEUVILLE & ANTHONY, Bul. Mus. Paris **12** (412).—*C. (Serrulina) serrulata* Pfr. var. n. *amanica* Asia Minor, NÄGELE, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38**.

Cochlicella contermina Shuttle, note, POLLONERA, Torino, Boll. Musei Zool. anat. **20** No. 517.

Coelocentrum subgen. n. *Ptychodonta*; *C. pittieri* sp. n., N. America, BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. **31**.

Coelorus, notes on, with figg., GUDE Ann. Mag. Nat. Hist., London **18** (433).

Cælostemma v. *Holospira*.

Currella minuta, *alabastrina* spp. n. Philippines, DA COSTA, London, Proc. Malac. Soc. **7** (99).—*C. daillyana* (= *Hap-palus sulcatus* d'Ailly), *redfieldi*, *liber-iana philippinica* spp. n., PILSBRY, Man. Conch. **18**.

Daudebardia, notes on, WAGNER, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (177-86).

Dissotropis subgen. n. of *Anisospira*, BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. **31**.

Drymaeus sykesi (7), *notabilis* (7), *notatus* (7) Colombia, *acuminatus* (8) Brazil, *pseudofusoides* (8), *angustus* (8) Colombia, *prestoni* (9) Panama spp. n., DA COSTA, London, Proc. Malac. Soc. **7**.—*D. spadiceus* (97), *alabastrinus* (98) Colombia, *rosenbergi* (98), *castaneo-strigatus* (98) Peru spp. n., DA COSTA, London, Proc. Malac. Soc. **7**.—*D.* spp. notes, SIMPSON, Nautilus **20** (24).—*D. dormani*, habits, etc., Press Bull. Florida Agric. Stat. **59**; Nautilus **19** (6-9).

Dyakia, notes, with anatomy of *D. striata*, GODWIN-AUSTEN, London, Proc. Malac. Soc. **7** (93).—Transferred to *Zonitidae*, PILSBRY, **10**.

Elisma v. *Helix*.

Elma v. *Ennea*.

Endodonta marsupialis, *kamehameha*, *concentrata* spp. n. Hawaiian Is., PILSBRY & VANATTA, Philadelphia, Pa., Proc. Acad. Nat. Sci. **57** (783-6).

Ennea (Elma) mansuyi sp. n. Indo China, DAUTZENBERG & FISCHER, J. conchyliol. **53** (345).—*E. swinhoei* subsp. n. *hotawana*, Formosa, PILSBRY,

Philadelphia, Pa., Proc. Acad. Nat. Sci. **57** (736).

Epiplragmophora v. *Helix*.—*E. kelletti* (Fls.), *stearnsiana* (Gabb) notes, CLAPP, Nautilus **20** (13-6).—*E. tudiculata*, colony, KELSEY, Nautilus **20** (61).

Epirobia subgen. n. *Propilsbrya*; *E. coalunilensis*, (*Propilsbrya nelsoni* spp. n. N. America, BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. **31**.

Eucalodium decollatum subsp. n. *guatemalensis*, Central America, BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. **31**.

Eulota v. *Helix*.—*E. (Plectotropis) impexa*, *inrinensis*, *lebes*, *perplexa* spp. n. Formosa, *E. (P.) fulvicans* subsp. n. browni, *E. lautsi* subsp. n. *miera*, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. **57**, (730-2).

Euonyma turriiformis subsp. n. *sarissa*, PILSBRY, Man. Conch. **18**.

Ferussacia paulucciana sp. n. Elba, POLLONERA, Torino, Boll. Musei Zool. Anat. **20** No. 517 (7).

Fruticicola (Theba) eliae sp. n. Asia Minor, NÄGELE, Frankfurt a. M., Nachr.-Bl. D. malakozool. Ges. **38**.

Ganesella albida subsp. n. *insignis*, Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. **57** (736).

Glessula, species from India and Ceylon; *G. subperotteti* (163), *canarica*, *subinornata* (164), *subserena* (166), *jeyporensis* (167), *subjerdoni*, *gracilis* (170) India, *pusilla* India and Ceylon, *subfilosa* (171) India spp. n., BEDDOME, London, Proc. Malac. Soc. **7**.

Gonostomus subhybridus sp. n., DA COSTA, London, Proc. Malac. Soc. **7** (97).

Gulnaria v. *Limnaea*.

Gyraulus v. *Planorbis*.

Hapalus sulcatus d'Ailly is a *Currella*, PILSBRY, Man. Conch. **18**.

Haplocion v. *Holospira*.

Haploptychius gen. n., type *Streptaxis sincensis* Gould, MÖLLENDORFF in MARTINI & CHEMNITZ, Conchylien - Cabinet, **1** (127).

Haplostemma v. *Holospira*.

Helicarion hirsescans sp. n. Formosa, PILSBRY, Philadelphia, Pa., Proc., Acad. Nat. Sci. **57** (740).

Helicigona arbustorum, sinistral. SHAW, Leeds, J. Conch. **11** (330).—*H. lapicida*, white form, JACKSON.

Helicodiscus eigenmanni subsp. n. *arizonensis*, S.W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58**.

Helicogena v. *Helix*.

Helix, the section *Elisma*, CAZIOT & FAGOT, Feuille jeunes natural. (121-5).—Notes on spp. of Mabille & Ferussac, ANCEY, J. Conchyliol., Paris **53** (310-27).—Notes on spp., GERMAIN, Nantes, Bul. soc. sci. nat. (sér. 2) (1-68); JACKSON.—Function of salivary glands, PACAUT & VIGIER, Paris, C.-R. soc. biol., **60** (232-4).—Salivary glands, PACAUT & VIGIER, Paris, C.-R. soc. biol. **60** (419-21).—Glands of Nalepa, PACAUT & VIGIER, Paris, C.-R. soc. biol. **60** (230-2).—Function of glands of Nalepa, PACAUT & VIGIER, Paris, C.-R. soc. biol. **60** (545-6).—Centrosomes of nerve-cells, LEGENDRE, Paris, C.-R. soc. biol. **60** (490-1).—Seminal apparatus, POPOVICI-BAZNOSANU, Paris, C.-R. Acad. sci. **143** (70-2).—*H. cotiellae*, *rodana* spp. n. Aragon, FAGOT, Zaragoza, Bol. Soc. Arag. **5** (172).—*H. (Helicogena) thracica* (269), *sturanyi* (278) Balkan, *despotina* (279) Balkan, *stolacensis* (284) Bosnien, Serbien, *pirensis*, var. n. *lubnicensis* (285) Balkan, KOBELT in MARTINI & CHEMNITZ, Conchylien-Cabinet **1**.—*H. quebbardi* Frankreich, *saintivresii* (56), Alpes marit. spp. n.; *H. rumelica* var. n. *magnifica*, *gussoneana* var. n. *mileti*, *enxiomiera* var. n. *presbensis*, *lucorum* var. n. *byzantina*, *figulina* var. n. *eumolpia*, *nicensis* var. n. *tacheiformis*, *pomatia* varr. n. *temensis*, *costellata*, *transsylvanica*, *claudiensis*, KOBELT in ROSSMÄSSLER, Iconographie **12**.—*H. pomatia* var. n. *kapellae*, *serbica*, *expansilabris*, *elsae*, *dobrudschae*, *rhodopensis*,? *duschekensis*, *krüperi*, *pedemontana*, *H. secernenda*, *kormosi* varr. n. *njegusensis*, *subligata*, *subalbescens*, *dimidiata*, *subobtusata*, *H. albescens* var. n. *bulgarica* *H. castanea* var. n. *nigerrima*, *H. ligata* varr. n. *meyeri*, *lobianei*, *lindeni*, *golae*, *virginalis*, *H. campana* var. n. *caecuminis*, *H. lucorum* var. n. *byzantina*, *H. gussoneana* var. n. *mileti*, *H. buchii* var. n. *adsharica*, *H. kolasinensis*? var. n.

bosnica, *H. cineta* var. n. *elegans* Kormos, *H. pelasgica* var. n. ? *cosensis* KOBELT in MARTINI & CHEMNITZ, Syst. Conch. Cab.—*H. (Eutota) jourdyi* Morlet, var. n. *minor*, DAUTZENBERG & FISCHER, J. Conchyliol. **53** (362).—*H. (Isaurica) praececellens* Näg. var. n. *amanica* Asia Minor, NÄGELE, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38**.—*H. jejuna* Say, transferred to *Praticolella*, PILSBRY, Nautilus **20** (32-3).—*H. acuta* in France, GIARD, Feuille jeunes natural., Paris **36** (13); BOTLY DE LESDAIN, GODEX, LOBEAU, *Ibid.* (31).—*H. candidissima*, distribution, NAVAS.—*H. hortensis* in N. America, JOHNSON, Nautilus **20** (73-80, 95-6).—*H. hortensis* in Newfoundland, COCKERELL, Nautilus **20** (94).—*H. limbata*, note on dispersal, GIARD, Feuille jeunes natural., Paris **36** (45); DOLLFUS, *ibid.*, (45).—*H. (Campylidea) foetens*, ROSSM., introduced near Donau-stauf, CLESSIN, Regensburg, Ber. naturw. Ver. **10** (46).—*H. (Vallonia) excentrica*, distribution, WÜST, Frankfurt a. M., NachrBl. malakozool. Ges. **38** (218-9).—*H. (V.) saxoniana*, note, WÜST, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (206).—*H. muralis*, note on, CAZIOT, Paris, Bul. soc. zool. **30**.—*H. pomatia*, notes on sinistral, JACKSON.—*H. pomatia*, salivary glands, PACAUT & VIGIER, Arch. anat. microsc., Paris **8** (425-659); Paris, C.-R. Acad. sci. **142** (412-4); C.-R. Assoc. anat. **1905** (175-6).—*H. pomatia*, nervous system, AEBERHARDT, Bern, Mitt. naturf. Ges. **1905** (123-5); VENEZIANI, Anat. Anz., Jena **29** (241); LEGENDRE, Paris, C.-R. Soc. biol. **61** (19); C.-R. Ass. Anatom. **1906** (85).—*H. pomatia*, nerve cells, LEGENDRE, Paris, C.-R. soc. biol. **60** (388-9, 455-90).—*H. pomatia*, biology, SCHMITZ, Natur. u. Offenb., Münster **52** (241-3).—*H. pomatia*, reproduction and oviposition, MEISENHEIMER, Verh. D. zool. Ges. **16** (51-61).—*H. serpentaria*, CAZIOT & FAGOT, Paris, Bul. soc. zool. **30** (12-5).—*H. vermiculata*, CAZIOT & FAGOT, Paris, Bul. soc. zool. **29** (19-23); CAZIOT, Paris, Bul. soc. zool. **30** (11).

†*Helix ropuebrunensis, roreti* spp. n. Post-Tertiary, Alpes Maritimes, MAURY & CAZIOT, Paris, Bul. soc. geol. **5** (601).—*H. (Epihragmophora?) dubosia* sp. n. John Day beds, Oregon, STEARNS, Berkeley, Univ. Cal. Pub., Bull. Dept. Geol. **5**.—*H. terrena* var. n. *commonti*, Post-Tertiary, France, BABOR, Amiens, Bull.

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Soc. linn. **18** (29).—*H. spp.*, Tertiary, China, figd., SCHLOSSER, Budapest. Ann. Mus. Nat. Hung. **4** (389-90).

Hemiplecta xullaensis sp. n. Xulla Is., SCHEPMAN, Leiden, Notes Mus. **28** (120-8).

Holospira subgen. n. *Liostemma*, type *H. (Haplostemma) hamiltoni* Dall, *Stalactella*, *Tristemma*; *H. mexicana*, *palmeri*, *infanta*, *painteri*, *oaxacana*, (*Bostrichocentrum*) *goldmani*, *hidalgensis*, *tamaulipensis*, (*Liostemma*) *durangoensis*, *yuatanensis*, (*Haplocion*) *townsendi*, *lichenophora*, *tantalus*, (*Oelostemma*) *herreriae*, (*Stalactella*) *rosci* spp. n. *H. goldfussi* subsp. n. *anacachensis*, N. America, BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. **31**.

†*Hyalinia subolivetorum* sp. n. Post Tertiary, Alpes-Maritimes, MAURY & CAZIOT, Paris, Bull. soc. geol. **5** (599).

Pygromia rufescens, sinistral, SHAW, Leeds, J. Conch. **11** (281).

Iberus spinac, treechinensis spp. n., ROSSMÄSSLER, Iconographie **12**.

Isaurica v. *Helix*.

Isidora tabulata Gld., *hochstetteri* Dkr., *norae-zelandiae* Sby., *antipodea* Sby., *lirata* Ten.-Wds., figd., SUTER, Wellington, Trans. Proc. N. Zealand Inst. **38** (333).

Jaminia biplieata Studer, occurrence at Brandon, Suffolk, CHASTER, Leeds, J. Conch. **11** (319-20).

Kaliella costata, longa, renusta spp. n. Formosa, *K. eremulata* subsp. n. *hotawana*, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. **57** (743-1).—*K. microbembix* sp. n. Hupe, FULTON, Ann. Mag. Nat. Hist., London **17** (248).

Laminella v. *Amastra*.—*L. semirennulata* sp. n. Hawaiian Is., BORCHERDING, Zoologica **48**.

Lartetia and *Vitrella*, BOETTGER, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (30-2).

Lerantina chanzirensis sp. n. S. Europe, KOBELT, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (15-6).

Limax eeeconii sp. n. Palästina, SIMROTH, Frankfurt a. M., NachrBl. D.

malakozool. Ges. **38** (84).—*L. agrestis*, SCHOEPE, Forstwiss. Centralbl., **28** (609-610).—*L. maximus*, eyes, SMITH, Bull. Mus. Comp. Zool. Harvard **48** (231).

Limicolaria ponsonbyi, smithi spp. n. Uganda, PRESTON, London, Proc. Malac. Soc. **7** (89).—*L. turrisformis* Martens var. n. *obesa* (170), *turris* Pfeiffer. var. n. *duperthuisi*, GERMAIN, Bul. Mus., Paris **12**.

Limnæa bongsonenais sp. n. Sumatra, BULLEN, London, Proc. Malac. Soc. **7**, (14).—*L. crassiuscula* sp. n. Mariannes BAVAY, J. Conchyliol., Paris **53** (255).—*L. tchadiensis* sp. n. Central Africa, GERMAIN, Bul. Museum, Paris **11** (485).—*L. (Bulinus) egregia* sp. n. Northwest Australia, PRESTON, London, Proc. Malac. Soc. **7** (36).—*L. (Limnæa) lagorii* sp. n. Crimea, DYBOWSKI, St. Petersburg, Bull. Ac. Sc., **18** (113-6).—*L. (Gulnaria) orata* Drap. var. n. *köhleri*, HONIGMANN, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (45-6).—*L. peregra*, sinistral, TAYLOR, Naturalist, London **1906** (114); TRECHMANN, Naturalist London **1906** (113).—v. *Limnæa*.

†*Limnæa depereti* sp. n. Tertiary, France, CAZIOT, Béziers, Bul. Soc. etud. sci. nat. **27** (20).—*L. durandi* n. n. Paris Basin, DOLLFUS, Bull. carte géol. France **16** (24).—*L. maxima* sp. n. John Day Beds, Oregon, STEARNS, Berkeley, Univ. Cal. Pub., Bull. Dept. Geol., **5**.—*L. merzbacheri*, etc. spp. n. Tertiary, Karkará, SCHLOSSER, Budapest, Ann. Mus. Nat. Hung. **4** (375-6).

Limnæa v. *Limnæa*.

Liostemma subgen. n. of *Holospira*, type *H. (Haplostemma) hamiltoni* Pall, BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. **31** (141-3).

Limnæa v. *Limnæa*.—*L. danielsi* sp. n. Indiana, BAKER, Nautilus **20**, (55-6).—*L. hinkleyi* sp. n. Idaho, BAKER, Nautilus **19** (142-3).—*L. nasoni* sp. n. Michigan, BAKER, St. Louis, Mo., Trans. Acad. Sci. **16** (1).—*L. bulimoides* subsp. n. *cockerelli* S. W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58**.—*L. clodes*, habits, WALTER, Brooklyn, N.Y., Inst. Arts. Sci., Cold Spring Harbor Monog. **6** (1-35).—*L. megasoma*, note,

LATCHFORD, Nautilus **20** (83).—*L. stagnalis*, nervous system, AEBERHARDT, Bern. Mitt. Naturf. Ges. **1905** (121-3).

†*Limnæa sieverti, seudderii* spp. n. Colorado, COCKERELL, New York, N.Y., Bull. Amer. Mus. Nat. Hist. **22**.

Macrochlamys douvillei sp. n. Indo China, DAUTZENBERG & FISCHER, J. conchyliol. **53** (351).—*M. nitidus* sp. n. Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. **57** (741).—*M. hendersoni* n.n. for *M. dohertyi* Henderson, ANCEY, J. Conchyliol. **53** (320).

Macrodonates königsvaldi, simplex spp. n., Brasil, THIELE, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (69-71).

Martensia boukeræ sp. n. Uganda, PRESTON, London, Proc. Malac. Soc. **7** (88).

Medora v. *Pupa*.

Microcystina lamprobasis, lissobasis, radiata spp. n. Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. **57** (742).

Microstoma a synonym of *Brachypodella* (q.v.).

Mirus v. *Buliminus*.

Murella rorellensis, sybaritica spp. n. Italy, KOBELT, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (204-5).

Myosotella gen. n. for *Alexia myosotis*, &c., MONTEROSATO, Naturalista sicil., Palermo **18** (126).

Nanina hageni sp. n. Banka I., WEBER, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (164-5).—*N. rothschildi* sp. n. Abyssinia, NEUVILLE & ANTHONY, Bul. Mus., Paris **12** (414).

Neoplanorbis gen. n. for *N. tantillus* sp. n. United States, PILSBRY, Nautilus **20** (50-1).

Neurcombia carinella sp. n. Hawaiian Is., BALDWIN, Nautilus **19** (135-9).

Odontartemon subgen. n. v. *Perrotetia*.

†*Omphalina* (?) *laminarum* sp. n. Colorado, COCKERELL, New York, Bull. Amer. Mus. Nat. Hist. **22**.

Opeas opella sp. n. Hawaiian Is., PILSBRY & VANATTA, Philadelphia, Pa., Proc. Acad. Nat. Sci. **57** (783-6).—

O. bauriense (= *Stenogyra lucida* Gibbons), *sykesi*, *heudei*, *satsumense*, *kusaiense*, *argutum*, *yucatanense*, *adamsi* spp. n.; *O. octogyrum* var. n. *amazonicum*, *gracile* var. n. *neocaledonium*, *johanninum* var. n. *mayottense*, PILSBRY, Man. Conch. 18.

Orcula v. *Pupa*.

†*Orcohelix yarapai* subsp. n. *compactula*, COCKERELL, Nautilus 19 (46-7).

Paropeas subgen. n. of *Prosopeas*. PILSBRY, Man. Conch. 18.

Partulina flemingi, *lemmoni*, *carnicolor*, *kaeana*, *cooperi*, *fulvicans* spp. n. Hawaiian Is., BALDWIN, Nautilus 19 (111-3, 135-9).

Paryphanta atramentaria, anatomy, MURDOCH, Wellington, Trans. N. Zeal. Inst. 38 (313-6).

Patula hookeri, occurrence in Kerguelen, RICHTERS in DRYGALSKI, Deutsche Südpolar Exped. 10 Zool. 4 (298).

Perrottetia subgen. n. of *Odontartemon* KOBELT in MARTINI & CHEMNITZ, Conchylien-Cabinet, 1 (108).

Phrixgnathus serratocostata sp. n. Waiuku, N.Z., WEBSTER, Wellington, Trans. N. Zeal. Inst. 38 (311).

Physa tchadiensis (485), *dautzenbergi* (486) spp. n. Central Africa; *P. dunkeri* (486) n. n. for *P. scalaris* Dunker, GERMAIN, Bul. Muséum, Paris 11.

†*Physa miqueli* sp. n. Tertiary, France, CAZIOT, Béziers, Bull. Soc. étud. sci. nat. 27 (20).

Planispira cingarus sp. n. Halma-hera, FULTON, Ann. Mag. Nat. Hist., London 17 (247).

Planorbis, notes on spp., ANCEY, J. Conchyliol. 53 (320-1).—*P. curus filocinctus* spp. n. S.W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. 58.—*P. sagoensis* sp. n. Sumatra, BULLEN, London, Proc. Malac. Soc. 7 (129).—*P. corneus*, breeding, SOFFEL, Zool. Beob. 47 (84-5); ZIEGELER, Wochenschr. Aquarienkunde (296-7).—*P. corneus*, supposed albinism, ZIEGELER, Bl. Aquarienkunde 17 (70); KÖHLER, Bl. Aquarienkunde 17 (216-7, 230-1); ROTH, Bl. Aquarienkunde 17

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(358-60, 367-70).—*P. corneus*, an amphibian, HOLZFUSS, Natur u. Haus, 14 (231-6).

†*Planorbis florissantensis* sp. n. Tertiary, Colorado, COCKERELL, Nautilus 19 (100-1, 124).—*P. landonensis* n. n. Paris Basin, DOLLFUS, Bull. Carte géol. France 16 (23).—*P. (Gyraulius) keideli* (381), *karkaraensis* (383) spp. n. Tertiary, Central Asia and China, SCHLOSSER, Budapest, Ann. Mus. Nat. Hung. 4.

Plectotropis v. *Eulota*.

Pleurodonte (Caracolus) manifesta sp. n. (?) Cuba, FULTON, Ann. Mag. Nat. Hist., London 17 (247).

†*Pocillozonites nelsoni* var. n. *conoides*, *reiniannus* var. n. *antiquus* Bermudas, VERRILL, New Haven, Conn., Trans. Acad. Arts Sci. 12.

Polygyra multilineata subsp. n. *algonquinensis*, NASON, Nautilus 19 (141-2).—*P. texasiana* subsp. n. *hyperolia* S.W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. 58.

Pomatia cincta subsp. n. *elegans*, *seccernenda* subsp. n. *dimidiata*, *kormosi*, *subalbescens*, KORMOS, Frankfurt a. M., NachrBl. D. malakozool. Ges. 38.

Praticolella jejuna (Say), systematization, PILSBRY, Nautilus 20 (32-3); habits, JOHNSON, Nautilus 20 (46).

Propilsbrya subgen. n. of *Epirobia* (q.v.), BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. 31.

Prosopeas subgen. n. *Paropeas*; *P. holosericum* Boettger, *anceyi* (= *P. macilentum* Ancey preoc.) spp. n. *aentissimum* var. n. *hastatum* Boettger, PILSBRY, Man. Conch. 18.

Pseudopartula, referred to *Zonitidae*, PILSBRY, Nautilus 20 (47).

Ptychodonta subgen. n. of *Coelocentrum* BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. 31.

†*Ptychogyra* gen. n. for *P. canalifera* sp. n. Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. 45.

Punctum taiwanicum sp. n. Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. 57 (746).

Pupa longina **sp. n.** Aragon, FAGOT in NAVAS, Zaragoza, Bol. Soc. Arag. **5** (201).—*P. (Medora) vultur* **sp. n.** Herzegovina, BRANCSIK, Trenesén, m. termt. társ. évk. **1906** (190).—*P. (Orcula) robusta* **sp. n.** Asia Minor, NÁGELE, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38**.—*P. (O.) doliolum* Brug. **var. n. inerassata** Asia Minor, NÁGELE, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38**.—*P. anglica*, note, MARGIER, Feuille jeunes natural. **35** (68-70).

†*Pupa lomnickii* **sp. n.** Sarmatian, Galicia, FRIEDBERG, Wien, SitzBer. Ak. Wiss. **114** (312).—*P.* **sp.** China, Ob. Tertiär, SCHLOSSER, Ann. Hist.-Nat. Mus. Nat. Hung., **4** (390).

Pyramidula cronkhitei anthonyi Pils. **nom. n.**, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58**.

†*Pyramidula lecontei* **sp. n.** John Day Beds, Oregon, STEARNS, Berkeley, Univ. Cal. Pub., Bull. Dept. Geol. **5**.

Radiodiscus Pils. **gen. n.** of Endodontidae for *R. millicostatus* **sp. n.** S.W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58**.

Satsuma lantenoisi **sp. n.** Indo China, DAUTZENBERG & FISCHER, J. conchyliol. **53** (360).

Segmentina kennardi **sp. n.** Sumatra, BULLEN, London, Proc. Malac. Soc. **7** (130).

Serrulina v. *Clausilia*.

Siphonaria cyaneomaculata **sp. n.** South Africa, SOWERBY, London, Proc. Malac. Soc. **7** (37).—*S. stowae* **sp. n.** S. Australia, VERCO, Adelaide, Trans. R. Soc. **30** (223).

Sitala lanchowensis **sp. n.** China, PILSBRY, Nautilus **20** (5).—*S. hirasei, angulifera* **spp. n.**, *circumeincta* **sub-sp. n.** *taiwanica* Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. **57** (744-5).

Sphyradium sharpi, alexanderi **spp. n.** Hawaiian Is., PILSBRY & COOKE, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58** (215-6).

Stalactella **subgen. n.** of *Holospira*, BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. **31**.

Stenogyra lucida Gibbons = *Opeas bawriense*, PILSBRY, Man. Conch. **18**.

Streptaxis sinensis Gld., the type of *Haploptychius* (q.v.).

Strobilops labyrinthica **subsp. n.** *texasiana* S.W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58**.

†*Strophocheilus chubutensis, hauthali* **spp. n.** Patagonia, IHERING, Revista Mus. La Plata **11** (240-1).

Subulina totistriata, parana **spp. n.**, PILSBRY, Man. Conch. **18**.

Subzebrinus v. *Buliminus*.

Succinea retusa var. *magister* figd., PILSBRY, Nautilus **19** (109).

†*Succinea somersensis* **sp. n.** Bermuda, VERRILL, New Haven, Conn., Trans. Acad. Arts Sci. **12**.

Synapterpes amabilis **sp. n.**; *S. auratus* **var. n. aratus**, PILSBRY, Man. Conch. **18**.

Tapada v. *Cantareus*.

Testacella esserana **sp. n.** Aragon, FAGOT, Zaragoza, Bol. Soc. Arag. **5** (171).

†*Testacella martiniana* **sp. n.** Post Tertiary, Alpes Maritimes, MAURY & CAZIOT, Paris, Bul. Soc. geol. **5** (598).

Theba v. *Fruticicola*.

Tortaxis **gen. n.** PILSBRY, Man. Conch. **18**.

Tristemma **subgen. n.** of *Holospira*, BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. **31**.

Trochomorpha nouhuysi **sp. n.** Xulla Is., SCHEPMAN, Leiden, Notes Mus. **28** (120-8).—*T. pellucida* **sp. n.**, *cultrata* **subsp. n. formosana**, Formosa, PILSBRY, Pa., Proc. Acad. Nat. Sci. **57** (739).

Trochonanina crenulata **sp. n.** Central Africa, GERMAIN, Bul. Muséum, Paris **11** (484).

Vallonia v. *Helix*.—*V. costata*, note, ADAMS, Leeds, J. Conch. **11** (364).—*V. excentrica*, note on, STERKI, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (166).

†*Vertigo parcedentata*, in Holocene of England, KENNARD & WOODWARD, London, Proc. Malac. Soc. **7** (119).

Vitrea dalliana subsp. n. *roemeri*, *milium* subsp. n. *meridionalis*, S.W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58**.—*V. rhoadsi*, figd., PILSBRY, Nautilus **19** (109).—*V. approxima*, *ranattai*, note, PILSBRY & WALKER, Nautilus **20** (57-8).

Vitrella, of Württemberg, GEYER, Stuttgart, Jahreshefte Ver. Natk. **62** (189-200); BOETGER, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (30-2).

Vitrina diaphana, nervous system, AEBERHARDT, Bern. Mitt. Naturf. Ges. **1905** (125-6).—*V. pfeifferi*, note, DALL, Nautilus **19** (107-8).

Xerophila acthalia (5), *tyrrena* (6), *turbidula* (7) spp. n. Elba, POLLONERA, Torino, Boll. Musei Zool. Anat. **20** No. 517.—*X. regliana* sp. n. KORMOS, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (81).—*X. virgata* subsp. n. *croaticae*, KORMOS, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38**.

Xesta cornicen sp. n. Sumatra, BULLEN, London, Proc. Malac. Soc. **7** (13).—*X. halmaherica* Kobelt var. n. *talia-buensis* Xulla Is., SCHEPMAN, Leiden, Notes Mus. **28** (120-8).

Xestina tenera Möllendorf var. n. *elata*, DAUTZENBERG & FISCHER, J. Conchyliol. **53** (350).

Zospeum venetum, note on, POLLONERA, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (16).

SCAPHOPODA.

Collections of the "Siboga" expedition described and fauna of the Indo-Pacific region reviewed, BOISSEVAIN.

Dentaliidae, Liassic, RICHARDSON.

Antalis v. *Dentalium*.

Bathoxiphus v. *Dentalium*.

Cadulus campylus sp. n., Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7** (80).—*C. (Dischides) ovalis* (66), (*Polyschides*) *hexaschistus* (67-8), *mag-nus* (68), *longilobatus* (68-9), (*Gadila*) *virginalis* (72-3), *pseudoliri* (73), *zonatus* (74), *pulcherrimus* (74-5), *abrupto-inflatus* (75) spp. n. Indo-Pacific, BOISSEVAIN, Res. explor. Siboga **54**.

Dentalium minus (14), *intercostatum* (14), *tubiforme* (19-20), *oryx* (20), *leucoryx* (20-1), *macandrewi* (25-7), *sinuosum* (28), *paucicostatum* (28-9), *pluricostatum* (30), *transversostriatum* (32), *malayanum* (32-3), *sedecimeostatum* (33), *compressiusculum* (33-4), *martensi* (34), (*Fissidentalium*) *sibogae* (39), (*Tesseracme*) *tetrapleurum* (41-2), (*Episiphon*) *earnum* (48), (*Bathoxiphus*) *tricarinatum* (48-9), (*Gadilina*) *stapes* (50-1), *pachypleurum* (51), *truncatum* (51), (*Laevidentalium*) *banale* (55), (*Plagioglypta*) *scmitracheatum* (56), *tracheatum* (56-7) spp. n. Indo-Pacific; *D. aprinum* Lin. var. n. *incolor* (10), (*Antalis*) *entalis*, Lin. var. n. *indicum* (44); *D. michelottii*, Hoernes, supposed recent specimens from the Malay Archipelago (16), BOISSEVAIN, Res. explor. Siboga **54**.—*D. serrulatum*, *cornubovis* (248), *subcurvatum* (251) spp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist., London **18**.—*D. tarentinum*, Trematode parasites; *Cercaria dentalii*, sp. n. (170), PELSENEER, **3**.

†*Dentalium acutum* (574), *hexagonale* (581), *oblongum*, *parvulum* (585), *suboratum* (587), *subquadratum* (588), *subtrigonale*, *terquemii* (589) spp. n. Lias, British Isles, RICHARDSON, Quart. J. Geol. Soc. **62**.—*D. duodecim-plectatum* sp. n. Senonian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (16).—*D. edocensis* sp. n. Post Tertiary, Japan, TOKUNAGA, J. Coll. Sci. **21** (34).—*D. rimosum* sp. n. Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. **22** (55).—*D. (Fustiaria) stromeri* sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (215).

Dischides v. *Cadulus*.

Entalina quadrangularis (62-3), *mediocarinata* (63), *cornucopiae* (63-4) spp. n. Malay Archipelago, BOISSEVAIN, Res. explor. Siboga **54**.

Siphonodentalium australasiae sp. n. Banda Sea, BOISSEVAIN, Res. explor. Siboga **54**.

Episiphon v. *Dentalium*.

Fissidentalium v. *Dentalium*.

†*Fustiaria* v. *Dentalium*.

Gadila v. *Cadulus*.

Gadilina v. *Dentalium*.

Laeridentalium v. *Dentalium*.

Plagioglypta v. *Dentalium*.

Polyschides v. *Cadulus*.

Tesseraeme v. *Dentalium*.

LAMELLIBRANCHIATA.

Histology of heart, ŁOZIŃSKI, Kraków, Bull. Intern. Acad. **1906** (48-62).

Muscular impression, REIS.

Adductor muscles, MARCEAU, Paris, C.-R. Acad. sci. **142** (1294-6).

Adductor muscles, movement, MARCEAU, Paris, C.-R. Acad. sci. **143** (303-5).

Fauna of Tuamotu and Gambier Is., LAMY, Bul. Muséum, Paris **1906** (205-15, 308-19).

Cretaceous fauna of England, WOODS, London, Monogr. Paleont. Soc. **2**.

Rauracian and Sequanian fauna of the dept. de l'Yonne, PÉRON, Auxerre, Bul. soc. sci. hist. nat. **59** (33-266).

Fauna of the Salem Limestone, BEEDE in CUMINGS and others, Indiana, Rep. Dept. Geol. Nat. Res., **30** (1323-34).

Critical list of DeFrance Collection, BIGOT.

Ostreidae includes *Lithiotis* q. v.

Pectinidae, gen. n. v. *Inaequipeeten*.—Cainozoic fauna of California, ARNOLD.—Palaeopectens of New South Wales, ETHRIDGE & DUN.—Nomenclature of genera; PETIÖ, Palaeontographica **52** (213-22).

Unionidae, oogensis and ovum, FRIERSON, Nautilus **20** (68-9).—“*Glochidium*” larva, ROTH, Bl. Aquarienkunde, Magdeburg **17** (108-11, 117-9, 123-7).—Effect of environment, SELL, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (38-44, 64-8).—Of N. America, DAVIS, Providence, R.I., Bull. Roger Williams Park Mus. **2**.—Of New England, DAVIS, Providence, R.I., Bull. Roger Williams Park Mus. **12**.—Of Kansas, SCAMMON, Lawrence, Kan. Univ. Sci. Bull. **3** (277-373).

Dreissensiidae of Europe, revision, BRUSINA, J. Conchyliol. **53** (272-97).

Veneridae, gen. n. v. *Granicorium*.

Solenidae from British E. Africa, SMITH & BLOOMER, London, Proc. Zool. Soc. **1906** (855-7).

Gastrochaenidae, classification; OPPENHEIM, **1** (102-4).

Abra truneata sp. n. Mast Head Reef, Q., HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **31** (478).—v. *Syndesmya*.

Acanthocardia v. *Cardium*.

Acar v. *Barbatia*.

Acila v. *Nucula*.

Adaena, Unterscheidung der Arten; *A. minima* sp. n. Aralsee, OSTROUMOFF, Tashkent, Izv. Turk. Otd. Russ. Geogr. Obsč. **4** (20-6).

Aequipeeten v. *Pecten*.

†*Aequipeeten giavenensis* (164), *martellii* (178), Tertiary, Sardinia, UGOLINI, Paleontogr. Italica, Pisa **12**.

Aetheria, hinge, WAAGEN, Wien, SitzBer. Ak. Wiss. **14** (153).—subgen. n. v. *Clessinella*.

†*Alectryonia* v. *Ostrea*.

†*Alectryonia tripolitana* sp. n. Cretaceous, Tripoli, KRUMBECK, Palaeontographica **53** (97-8).

†*Ambonychia septentrionalis* sp. n. Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. **14** (46F).

Amussium v. *Pecten*.—*A. formosum* sp. n. Persian Gulf and G. of Oman, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (807).—*A. investigatoris* (255), *manaricum* (256) spp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist., London **18**.

Anaitis punctigera sp. n. Sta. Luzia, C. Verd Is., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (86-7).

†*Anatina*, notes on the subgenus *Cercomya*, Agassiz; *A. (C.) cymbula* sp. n. Cretaceous, Hungary, PETIÖ, Palaeontographica **52** (313-5).—*A. boonei* sp. n. Jurassic, France, COSSMANN, Paris, C.-R. ass. franç. avanc. sci. **34** (287).

Anodonta, histology of visceral ganglion, FREIDENFELT.—Central nervous system, BOCHENEK, Kraków, Rozpr. Akad. **45** B (262-77).—*A. mutabilis*, histology of heart, ŁOZIŃSKI, Kraków,

Rozpr. Akad. **46** B (55-64).—*A. mutabilis*, reproduction, WICHARD, Bl. Aquarienkunde, Magdeburg **17** (348-9, 356-7).

†*Anomia aupsensis* **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille. Ann. Mus. **10** (47).

†*Anthonya cantiana* **sp. n.** Cretaceous, England, WOODS, London, Monogr. Paleont. Soc. **2** (139).

†*Anthracosia fritschi* **sp. n.** Permian, Bohemia, SCHMIDT, N. Jahrb. Min. **1905** 1 (47).

Area, anatomy, &c., of heart, THEILER, Jenaische Zs. natw. **42** (115).—Notes on spp. described by Lamarck, LAMY, J. Conchylol., Paris **53** (302-9).—*A. requiescens* (793), (*Bathyarca*) *anaelima* (794), (*Scapharca*) *birleyana* (794-5), *eibotina* (795) **spp. n.** Persian Gulf and Arabian Sea, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906**.—*A. (Barbatia) innocens* **sp. n.** Bay of Bengal, SMITH, Ann. Mag. Nat. Hist., London **18** (253).

†*Area ariculoides* **sp. n.** Mesozoic, Galicie, WISNIOWSKI, Krakow, Bull. Intern. Acad. **1906** (249).—*A. eureti* **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (54).—*A. jekaterinoslarica* **sp. n.** Tertiary, Russia, SOKOLOV, St. Petersburg, Mem. Com. geol., n. s. **18** (22).—*A. maliokini* **sp. n.** Jurassic, Russia, BORISSJAK, St. Petersburg, Mem. Com. geol., n. s. **19** (36).—*A. tennis* (58), *kagoshimensis* (59), *rectangularis* (61) **spp. n.** Post Tertiary, Japan, TOKUNAGA, J. Coll. Sci. **21**.—*A. (Barbatia) symyica* **sp. n.** Cretaceous, Hungary, PETHŐ, Palaeontographica **52** (240-1).—*A. (Parallelipipedum) fajumensis* **sp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (212-4).—*A. nodosa* **var. n.** *batanensis* Tertiary, Philippines, SMITH, Philippine J. Sci. **1** (630).—*A. decipiens* figd. SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. **19** (238).—*A. laevis*, Matheron is a *Cypriocardia*, q.v., REPELIN.—*A. richardi* **sp. n.** Santa Luzia, C. Verd Is., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (92-3).

Areopagia v. *Tellina*.

†*Areopagia matheroni* **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (71).

†*Aspergillum miocaenicum* **sp. n.** VADÁSZ, Földt. Közl. **36** (270).

†*Astarte*, notes on the genus, structure of hinge; *A. (Eriphyla) subplanissima* **sp. n.** Cretaceous, Hungary, PETHŐ, Palaeontographica **52** (254-61).—*A. cretacea* **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (57).—*A. dacotensis* **sp. n.** Jurassic, N. America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus. Nat. Hist. **22**.—*A. glenei* **sp. n.** Miocene, Lüneburg, WOLLEMAN, Zs. D. geol. Ges. **58** Mittl. (21).—*A. griesbachi* **sp. n.** Cretaceous, Pondoland, WOODS, Cape Town, Ann. S. Afric. Mus. **4** (300).—*A. japonica* **sp. n.** Post Tertiary, Japan, TOKUNAGA, J. Coll. Sci. **21** (54).—*A. paularensis* **sp. n.** Carboniferous, Carnian Alps, GORTANI, Boll. Soc. Geol. Ital. **24** (564).—*A. scriveneri*, *guthriensis* **spp. n.** Mesozoic, Singapore, NEWTON, London, Geol. Mag. **3** (492).—*A. upwarensis* (105), *senecta* (106), *cantabrigiensis* (107), *claxbiensis* (108), *omaloides* (111) **spp. n.** Cretaceous, England, WOODS, London, Monogr. Paleont. Soc. **2**.—*A. (Eriphyla) lenticularis* Goldf. figured, WOODS, Cape Town, Ann. S. Afric. Mus. **4** (301).

†*Avicula salvani* (102), *vinassai* (103), *silverii* (104), **spp. n.** Permian, Carnia, GORTANI, Riv. Ital. Pal. **12**.—*A. vulgaris* **sp. n.** Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. **45** (34).

†*Aviculopecten*, hinge, HIND, London, Geol. Mag. **3** (59).—*A. eamnicus* **sp. n.** Permo-Carboniferous, Italy, GORTANI Paleontogr. Italica, Pisa **12** (50).—*A. incarojanus* **sp. n.** Carboniferous, Carnian Alps, GORTANI, Boll. Soc. Geol. Ital. **24** (560).—*A. ponderosus* (10), *mitchelli* (11), *englehardti* (17) **spp. n.** Carboniferous, N.S. Wales, ETHERIDGE & DUX, Mem. Geol. Surv. N.S. Wales, Pal. **5**.—*A. pusillus*, *tener* **spp. n.** Devonian, Germany, SCHMIDT, Berlin, Zs. D. Geol. Ges. **57** (554).—*A. sp. ex aff. granosus* Phill, *hoernesianus* Kon., FRECH, Földt. Közl., **36**.

†*Arimactra* **subgen. n.** of *Maetra*, *aviculoides* **sp. n.** Maötisches Becken, ANDRUSSOW, St. Petersburg, Verh. Russ. mineral. Ges. **43** (289-451).

Barbatia (Acar) avellanaria, *margarethae* **spp. n.** Persian Gulf and Arabian

Sea, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (797).—v. *Area*.

†*Barbatia meridiana* **sp. n.** Cretaceous Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. **4** (287).

†*Baroda* v. *Tapes*.

Bathyarca cybaea **sp. n.** New Zealand HEDLEY, Wellington, Trans. Proc. N. Zealand Inst. **38** (71).—v. *Area*.

†*Biradiolites aguilerae*, *cardenasensis*, *potosianus* **spp. n.** Senonian, Cardenas, Mexico, BÖSE, Mexico, Bol. Inst. Geol. **24** (58-61).

Bornia lepida **sp. n.** Sydney, HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **30** (543).

Brachyodontes (*Hormomya*) *karachien-sis* **sp. n.** India, Karachi, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (800-1).—v. *Modiola*.

†*Buchiola subpalmata* **sp. n.** Devonian, S. Africa, REED, London, Geol. Mag. **3** (302).

Cameronia v. *Pliodon*.

†*Camponectes* v. *Camptonectes*.

†*Camptonectes* v. *Pecten*.

Cardilia semisulcata, Lamk., from Persian Gulf and G. of Oman, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (826).

Cardita echinaria **sp. n.** Persian Gulf, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (813).

†*Cardita rotunda* **sp. n.** Post Tertiary, Japan, TOKUNAGA, J. Coll. Sci. **21** (55).—*C. upwariensis* **sp. n.** Cretaceous, England, Woods, London, Monogr. Paleont. Soc. **2** (123).

Cardium edule, Bau der Schale, OSTROUMOFF, Taschent, Izv. Turk. Otd. Russ. Geogr. Obšč. **4** (20-6).—*C. edule*, Trematode parasites; *Bucephalus haimcanus*, Lac. Duth., PELSENER, **3** (176-7).—*C. edule*, parasite, NICOLL, Ann. Mag. Nat. Hist., London **17** (148).—*C. skeeti* **sp. n.** Mast Head Reef Q., HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **31** (476).—*C. (Acanthocardia) exochum* (838), *omanense* (838-9), (? *Fragum*) *centumviratum* (839-40) **spp. n.** Persian Gulf, G. of Oman, MELVILL & STANDEN, London, Proc. Zool.

Soc. **1906**.—*C. edule* L. **var. n. globulosa**, PALLARY, J. Conchyliol. **54**.

†*Cardium aupsense*, *laticostulatum* **spp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (63).—*C. brauneri*, *tokyoensis* **spp. n.** Post Tertiary, Japan, TOKUNAGA, J. Coll. Sci. **21** (51).—*C. derbenticum*, *karajmanicum* **spp. n.** Mäotisches Becken, ANDRUSSOW, St. Petersburg, Verh. Russ. mineral. Ges. **43** (289-451).—*C. griesbachi* (307) [=] *C. denticulatum* Griesb. **sp. n.** Cretaceous, Pondoland; *C. denticulatum* Bail. (306) redescribed and figd., Woods, Cape Town, Ann. S. Afric. Mus. **4**.—*C. quadricristatum* (290-1), *pseudoproductum* (292-5), *écerecianum* (295-6) **spp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52**.—*C. (Jurassicardium) subgen. n.) aconense* **sp. n.**, Jurassic, France, COSSMANN, Paris, C.-R. assoc. franç. avanc. sci. **34** (294).—*C. (Trachycardium) mayer-cymari* **sp. n.** Paleocene, Egypt, OPPENHEIM, Palaeontographica **30** (211-2).

†*Cassianella stachei* **sp. n.** Permian, Carnia, GORTANI, Riv. Ital. Pal. **12** (101).

†*Ceratomya calliglypta* **sp. n.** Jurassic, France, COSSMANN, Paris, C.-R. ass. franç. avanc. sci. **34** (285).

†*Cercomya*, Agass., v. *Anatina*.

†*Chama töröki* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (269-70).

†*Chione roberti* **n. n.** for *C. hallii*, Tate non Pritchard, PRITCHARD, Vict. Nat., Melbourne **23** (117).

Chlamys natalensis **sp. n.** South Africa, SMITH, Ann. Natal Govt. Mus. **1** (60).—v. *Pecten*.

†*Chlamys filubiensis* **sp. n.** Tertiary, Sardinia, UGOLINI, Paleontogr. Italica, Pisa **12** (160).

†*Circe carpathica* **sp. n.** Mesozoic Galicia, WISNIOWSKI, Bull. Intern. Acad. **1906** (247).

Clessinella **subgen. n.** of *Aetheria* for *C. sturanyi* **sp. n.** Congo, WAAGEN, Wien, SitzBer. Ak. Wiss. **114** (153).

Condylocardia orata **sp. n.** Sydney, HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **30** (533).—*C. porrecta*, *trifoliata*

spp. n. Mast Head Reef, Q., HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **31** (475).

†*Conocardium taramelli* **sp. n.** Carboniferous, Carnian Alps, GORTANI, Boll. Soc. Geol. Ital. **24** (565).

†*Coralliochama g-boehmi* **sp. n.** Senonian, Cardenas, Mexico, BÖSE, Mexico, Bol. Inst. Geol. **24** (54).

Corbicula, notes on, GERMAIN, Bul. Museum, Paris **12** (577).—*C. cunningtoni* **sp. n.** Victoria Nyauza, SMITH, London, Proc. Zool. Soc. **1906** (186).—*C. iacoini* **sp. n.** Central Africa, GERMAIN, Bul. Museum, Paris **11** (488).

†*Corbicula crassicostata* **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (61).

†*Corbis wanneri* **sp. n.** Cretaceous, Tripoli, KRUMBECK, Palaeontographica **53** (109–10).

Corbula persica (262), Persian Gulf, andamanica (263) Bay of Bengal **spp. n.**, SMITH, Ann. Mag. Nat. Hist., London **18**.—*C. subquadrata* **sp. n.** Persian Gulf, G. of Oman, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (843).

†*Corbula exigua, equivalvis* **spp. n.** Lower Campanian, S.E. France, REPELIN Marseille, Ann. Mus. **10** (74–5).—*C. harpaeformis* (193–4), *mokattamensis* (195), *retula* [Mayer-Eymar MS] (195–6), *lyonsi* (196–7), *pyramidarum* (197–8), *doglensis* (198), *elmeitensis* (198–9) **spp. n.** Tertiary, Egypt, OPPENHEIM, Palaeontographica **30**.—*C. (s. str.) silatiensis* **sp. n.** Upper Cretaceous, Borneo, ICKE & MARTIN, Leiden, Samml. Geol. Reichsmus. **8** (121–3).—*C. (Cuneocorbula) alabamiensis* Lea, Tertiary, Panama, figd., JOUKOWSKY, Genève, Mem. Soc. Phys. **35** (173–1).

†*Crassatella quasi* **sp. n.** Cretaceous, Tripoli, KRUMBECK, Palaeontographica **53** (106–7).—*C. slaronica* **sp. n.** Cretaceous, Hungary, PETNÖ, Palaeontographica **52** (267–9).—*C. macrodonta*, Sow. **var. n.** *obtusa*, Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (58).

Crassatellites omanensis **sp. n.** Gulf of Oman, SMITH, Ann. Mag. Nat. Hist., London **18** (258).

Crassatellites janus **sp. n.** Mast Head Reef, Q., HEDLEY, Sydney, N.S.W. Proc.

Linn. Soc. **31** (474).—*C. trailli*, Hutton, is a *Mactropsis*, HUTTON, Wellington, Trans. Proc. N. Zealand Inst. **38** (65–6).

†*Crassatellites africanus* **sp. n.** Cretaceous, Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. **4** (303).—*C. divisensis* **sp. n.** Cretaceous, England, Woods, London, Monogr. Paleont. Soc. **2** (128).

Crenella adamsiana **nom. n.** for *C. decussata*, A. Ad. non Montagu; *C. praececellens* **sp. n.** Persian Gulf and Arabian Sea, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (801).—*C. persica* **sp. n.** Persian Gulf, SMITH, Ann. Mag. Nat. Hist. **18** (255).

Cryptodon omanensis **sp. n.** Gulf of Oman, SMITH, Ann. Mag. Nat. Hist., London **18** (257).

Ctenodonta? bidorsata **sp. n.**, RAYMOND, Pittsburgh, Pa., Ann. Carnegie Mus. **3**.—*C. subovata* **sp. n.** Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. **14** (47F).

†*Ctenostreon*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135–72).

†*Cueullaea concentrica* **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (55).—*C. elatmensis* (23), *subeaneellata* (25) **spp. n.** Jura, Russia, BORISSJAK, St. Peterburg, Mem. Com. Geol., n.s. **19**.—*C. scriveneri* **sp. n.** Mesozoic, Singapore, NEWTON, London, Geol. Mag. **3** (489).—*C. (Trigonoarea) szabóii* **sp. n.** Cretaceous, Hungary, PETNÖ, Palaeontographica **52** (242–5).—*C. dalli* Ihering, *multicostata* Ihering, Patagonia figd., IHERING, Revist. Mus. La Plata **11** (235).

†*Cueullella, cultrata, ovata, tenui-arata*, figd., SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. **19** (239).

Cuna flava **sp. n.** Mast Head Reef, Q., HEDLEY, Sydney, N.S.W., Linn. Soc. **31** (474).

†*Cuneocorbula* v. *Corbula*.

Cuncopsis v. *Unio*.

Cuspiduria acutecarinata **sp. n.** Cape Verd Is., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (95).—*C. trailli*, New Zealand, figd., HEDLEY, Wellington, Trans. Proc. N. Zealand Inst. **38** (73).

†*Cuspidaria brevirostrata* **sp. n.** Jurassic, France, COSSMANN, Paris, C.-R. Ass. franc. avanc. sci. **34** (289).

Cyamioaetra communis **sp. n.** Sydney, HEDLEY, Sydney, N.S.W., Linn. Soc. **30** (540).

†*Cypricardella pandora* **sp. n.** Devonian, Germany, SCHMIDT, Berlin, Zs. D. Geol. Ges. **57** (556).

†*Cypricardia laevis* (Matheron) refigured, REPELIN, Marseille, Ann. Mus. **10** (66).

†*Cypricardinia subeuneata* **sp. n.** Glen Park Limestone, WELLES, St. Louis, Mo., Trans. Acad. Sci. **16** (435-71).

†*Cyprimeria haueri* (303-4), *elliptica* (304-5) **spp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52**.

†*Cyprina* (*Venilecardia*) *arcuata* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (297-9).

†*Cyrena*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).—*C. subglobosa* **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (64).

†*Cyrtodonta scala* **sp. n.**, RAYMOND, Pittsburgh, Pa., Ann. Carnegie Mus. **3**.

†*Cytherea aegyptiaca* (169-70), *connexa* (170 1), *productula* (171) **spp. n.** [Mayer-Eymar MS] Tertiary, Egypt, OPPENHEIM, Palaeontographica **30**.—*C. fonscolombi* **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (70).—*C. kochi* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (302-3).—*C. vaseonium* **sp. n.** Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. geol. Ges. **58** (80).

Dacrydium pelseneri **sp. n.** New Zealand, HEDLEY, Wellington, Trans. Proc. N. Zealand Inst. **38** (72).

†*Dallieoncha*, White, note on the section, PETHÖ, Palaeontographica **52** (230).—v. *Gervilleia*.

†*Daonella*, Greek species, RENZ, N. Jahrb. Min. **1906**, I (27-40).

†*Deltopecten farleyensis* (29), *wingensis* (31), *obliquatus* (32) **spp. n.** Carboniferous, New South Wales, ETHERIDGE

& DUN, Mem. Geol. Surv. N. S. Wales, Pal. **5**.

†*Dicranodonta mniernikensis* **sp. n.** Jurassic, Russia, BORISSJAK, St. Petersburg, Mem. Com. geol., n.s. **19** (32).

Diplodon lnapensis **sp. n.** America. BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. **30**.

†*D. rothi* **sp. n.** Patagonia, IHERING, Revist. Mus. La Plata **11** (236-7).

†*Diplodonta balcomensis* **n. n.** for *D. subquadrata*, Tate non Carpenter. PRITCHARD, Vict. Nat., Melbourne **23** (117).

Donax trunculus, Trematode parasites; *Cercaria pectinata* Huet, (163-4), *Bucephalus haimcanus* Lac.-Duth. (176-7), PELSENEER, **3**.—*D. trunculus* L., parasites, CAULLERY & CHAPPELLIER, Paris, C.-R. soc. biol. **60** (325-8).

†*Dosinia maeotica* **sp. n.** Mäotischer Becken, ANDRUSSOW, St. Petersburg, Verh. Russ. mineral. Ges. **43** (289-451).

†*Dreissensia dalli* **sp. n.** Tertiary, Panama, JOUKOWSKY, Genève, Mém. soc. Phys. **35** (171).

†*Edmondia podolia* **sp. n.** Palaeozoic. Podolia, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. **19** (236).—*E. cf. anodonta* Kon., FRECH, Földt. Közl. **36**.

Ensis macha Mol., anatomy, BLOOMER, London, Proc. Malac. Soc. **7** (18).

†*Eriphylla* Gabb, notes on the section, PETHÖ, Palaeontographica **52** (257-8).—v. *Astarte*.

Errilia sealiola Issel. discussed and figured, SMITH, Ann. Natl. Govt. Mus. **1** (66).

†*Exogyra*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).—*E. peroni* **sp. n.** Cretaceous, Tripoli, KRUMBECK, Palaeontographica **53** (101-2).

†*Fimbria scalaris* **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (61).

†*Fistulana degyptiaca* [Mayer-Eymar MS] **sp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (204-5).

†*Flexopecten sardous* **sp. n.** Tertiary, Sardinia, UGOLINI, Paleontogr. Italica, Pisa **12** (180).

Fragum v. *Cardium*.

Gaparium narigatum **sp. n.** Mast Head Reef, Q. HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **31** (476).

†*Gari praeursor* (308-9), *diversisignata* (309-10) **spp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52**.

†*Gastrochaena zitteli* [Mayer-Eymar MS] **sp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (204).

†*Gervilleia donvillei* **sp. n.** Mesozoic, Portugal, CHOFFAT, J. Conchyliol. **54** (40).—*G. hanitschi* **sp. n.** Mesozoic, Singapore, NEWTON, London, Geol. Mag. **3** (470).—*G. incarsiana* **sp. n.** Permian, Carnia, GORTANI, Riv. Ital. Pal. **12** (112).—*G. (Dalliconcha) orientalis* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (230-1).

†*Gervillia* v. *Gervilleia*.

†*Gigantopeeten variradiatus* **sp. n.** Tertiary, Sardinia, UGOLINI, Paleontogr. Italica, Pisa **12** (190).

Glabaris, notes, DALL, Nautilus **20** (39-40).

Glycymeris capricornea, queenslandica **spp. n.**, Mast Head Reef Qld., HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **31** (468-9).—*G. insignis* **sp. n.** Australia, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58** (213).

†*Goniomya scriveneri, singaporensis*, Mesozoic, Singapore, NEWTON, London, Geol. Mag. **3** (493).—*G. sp.*, Woods, Cape Town, Ann. S. Afric. Mus. **4** (310).

†*Grammysia denckmanni* **sp. n.** Devonian, Germany, SCHMIDT, Berlin, Zs. D. geol. Ges. **57** (558).—*G. podolica* **sp. n.** Palaeozoic, Podolia; *G. complanata* Sw., *cingulata* His, *rotundata* Sw. figd., SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. **19** (237).

Grandidieria v. *Unio*.

Granicorium **gen. n.** of Veneridae, type *G. indutum* **sp. n.** HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **31** (477).

†*Gryphaea čerevičiana* (192-3), *semicoronata* (193-4) **spp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52**.

†*Halobia*, Greek species, RENZ, N. Jahrb. Min. **1906** I (27-40).

Heteromactra **subgen. n.** of *Mactra* for *M. laminifera* **sp. n.** (q. v.), LAMY, Bul. Muséum, Paris **12** (45).

†*Hippurites* Lam., notes on the subgenus *Pironaea*, Meneghini, PETHÖ, Palaeontographica **52** (270-5).

†*Hoernesia piroudi* **sp. n.** Permian, Carnia, GORTANI, Riv. Ital. Pal. **12** (112).

Hormomya v. *Brachyodontes*.

†*Ilionia* (?) *parvula* **sp. n.** Paleozoic, Canada, WHITEAVES, Ottawa, Geol. Surv. Canada **3** (288).

†*Inaequipeeten* (192) **gen. n.** for *Pecten tournali* Serr., &c; *I. lorisatoi* (197), *arboreanensis* (198) **spp. n.** Tertiary, Sardinia, UGOLINI, Paleontogr. Italica **12**.

†*Inoceramus felixi* **nom. n.** for *I. lamarchi* Park. (pro parte), PETRASCHECK, Wien, Jahrb. Geol. RechsAnst. **54**.—*I. mülleri* **sp. n.**, PETRASCHECK, Wien, Jahrb. Geol. RechsAnst. **56** (155-68).—*I. robustus, eracoriensis* **spp. n.** Senonian, Bonarka, SMOLENSKI, Krakow, Bull. Intern. Acad. **1906** (717).—*I. zitteli* **sp. n.**, PETRASCHECK, Wien, Jahrb. Geol. RechsAnst. **56**.—*I. expansus* Bail. re-described, WOODS, Cape Town, Ann. S. Afric. Mus. **4** (299).

†*Iouannetia semicaudata* Desm., Beschreibung, VADÁSZ, Földt. Közl. **36**.

Isocardia, BÜLOW, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38**.

†*Isocardia rotunda* **sp. n.** Lower Campanian, S. E. France, REPELIN, Marseille, Ann. Mus. **10** (65).—*I. cliffwoodensis* **sp. n.** Cretaceous, New Jersey, WELLER, Chicago, J. Geol. **13** (326).

†*Iouannetia* v. *Iouannetia*.

Joufia, notes on, SNETHLAGE.

Jousseaumia **gen. n.**; *J. heterocyathis, heteropsammiae* **spp. n.** Ceylon, commensal with *Heterocyathus* and *Heteropsammia*, BOURNE, Ceylon Pearl Oyster Fish. Rep. **5** (245).

†*Jurassicardium* **subgen. n.** of *Cardium* for *C. axonense* **sp. n.**, COSSMANN, Paris, C.-R. ass. franc. avanc. Sci. **34** (294).

Kellia leucedra, revimentalis **spp. n.** Persian Gulf and Arabian Sea, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (817).

Kellyia australis **sp. n.** S. Orkneys, LAMY, Bul. Mus., Paris **12** (124).

†*Lasaca striata* **sp. n.** Post Tertiary, Japan, TOKUNAGA, J. Coll. Sci. **21** (53).

Leda fastidiosa, New Zealand, figd. HEDLEY, Wellington, Trans. Proc. N. Zealand Inst. **38** (70-1).

†*Leda*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).—*L. elementiae* **sp. n.** Lower Campanian, S. E. France, REPELIN, Marseille, Ann. Mus. **10** (56).—*L. navicula* **sp. n.** Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. **45** (55).

†*Leptodesma transversa* **sp. n.** Devonian, Germany, SCHMIDT, Berlin, Zs. D. geol. Ges. **57** (553).

†*Leptodomus podolicus* **sp. n.** Palaeozoic, Podolia, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. **19** (236).

†*Licbea dieneri* **sp. n.** Permian, Carnia, GORTANI, Riv. Ital. Pal. **12** (113).

Lima; mouth normally duplicated, PELSENER, **2**.—*L. murrayi*, Smith = *Limca acclinis* Hedley, HEDLEY & PETTARD, Sydney, N.S.W., Rec. Austr. Mus. **6** (223).

†*Lima cardenasensis*, *azteca* **spp. n.** Senonian, Cardenas, Mexico, BÖSE, Mexico, Bol. Inst. Geol. **24** (35-6).—*L. costicollata* **sp. n.** Cretaceous, Bohemia, PETRASCHKE, Wien, Jahrb. geol. Reichsanst. **55** (433).—*L. euveti* (48), *crassicosta* (48-9) **spp. n.** Lower Campanian, S. E. France, REPELIN, Marseille, Ann. Mus. **10**.—*L. hakodetensis* **sp. n.** Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. **21** (64).—*L. planicosta* **sp. n.** Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. **45** (42).—*L. (Radula) szilyana* (200-1), *selectissima* (201-2), *brusinae* (202) **spp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52**.

Limaea juglandula **sp. n.** Persian Gulf and Arabian Sea, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (812).—v. *Limca*.

Limatula hyperborea **sp. n.** E. Greenland, Spitzbergen and Kara Sea, JENSEN, Kjöbenhavn, Medd. Grönl. **29** (329-30).

Limca murrayi, Smith transferred from *Lima* and = *Limca acclinis*

Hedley, HEDLEY & PETTARD, Sydney, N.S.W., Rec. Austr. Mus. **6** (223).—v. *Limaea*.

Limopsis erectus **sp. n.** off Sydney, 300 fath., HEDLEY & PETTARD, Sydney, N.S.W., Rec. Austr. Mus. **6** (224).

†*Limopsis aguilari* **sp. n.** Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. **22** (53).—*L. nummiformis* (248-9), *vilmae* (249-50) **spp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52**.

†*Liopistha (Psilomya) corrugata* **sp. n.** Cretaceous, Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. **4**, (309).

†*Lithiotis* belongs to Ostracidae, BOEHM, Centralbl. Min., Stuttgart **1906** (161, 458); REIS, *l.c.* (209).

Lithodomus townsendi **sp. n.** Persian Gulf and G. of Oman, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (802).

†*Lithodomus donezianus*, *mixtus* **spp. n.** Jura, Russlands, BORISSJAK, Mém. Com. géol. **29** (1-22, 23-35).—*L. spp.*, VADÁSZ, Földt. Közl. **36**.

Lucina pamela **sp. n.** Persian Gulf and Arabian Sea, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (815).

†*Lucina*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).—*L. fimbriata* **sp. n.** Lower Campanian, S. E. France, REPELIN, Marseille, Ann. Mus. **10** (61).—*L. pironai* **sp. n.** Cretaceous, Balkans, OPPENHEIM, Berlin, Zs. D. geol. Ges. **58** (127).—*L. proboscidea* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (289).

Lucinoma v. *Phacoides*.

†*Lutraria ovalis* **sp. n.** Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. **21** (11).

†*Machomya appplanata* **sp. n.** Jurassic, France, COSSMANN, Paris, C.-R. ass. franc. avanc. sci. **34** (286).

†*Lyropecten* v. *Pecten*.

Macoma v. *Tellina*.—*M. blairensis* **sp. n.** Bay of Bengal, SMITH, Ann. Mag. Nat. Hist., London **18** (259).—*M. syndesmyoides* **sp. n.** Persian Gulf and G. of Oman, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (824).

†*Macoma rosariana* **sp. n.** Tertiary, Philippines, SMITH, Philippine J. Sci. **1** (630).

Macrocallista roscotincla SMITH (new to Australia) Mast Head Reef, Q., HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **31** (478).

†*Maerodon sulcatus* **sp. n.** Glen Park Limestone, WELLER, St. Louis, Mo., Trans. Acad. Sci. **16** (435-71).—*M. vereskincense* (1), *lutugini* (5), *jakorleri*, *micthalakii* (9), *leskeritschi* (11), *clatmense* (12), *koralerkense* (14) **spp. n.** Jurassic, Russia, BORISSJAK, St. Petersburg, Mem. Com. geol., N.S. **19**.

Maetra subgen. n. v. *Arimaetra*.—*M. solida*, *subtruncata*, Trematode parasites, *Bucephalus haimeanus* Lac.-Duth. (116-7), PELSENEER, **3**.

†*Maetra gabricli* **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (74).—*M. imago*, *schirvanica* **spp. n.** Mäotisches Becken, ANDRUSSOW, St. Petersburg, Verh. Russ. mineral. Ges. **43** (289-451).—*M. (Heteromaetra) subgen. n. laminifera* **sp. n.** Antarctic, LAMY, Bul. Mus. Paris, **12** (45).

Mactropsis trailli (Hutt.), characters, HUTTON, Wellington, Trans. N. Zealand Inst. **38** (65-6).

Malletia breris **sp. n.** Bay of Bengal, SMITH, Ann. Mag. Nat. Hist., London **18** (252).

Margaritifera, Cestode parasite, SEURAT, Paris, C.-R. Acad. Sci. (801-803)—*M. panasesae*, life-history, ALLEN.

Meleagrina, Tuamotu and Gambier Is., growth and pearl production, SEURAT, **1, 2, 3**.

†*Meretrix umzambiensis*, *euglypha* **spp. n.** Cretaceous, Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. **4** (304-5).

Mesodesma (Paphia) bahreinense **sp. n.** Persian Gulf, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (827).

†*Modiola internata*, *tschernysehevi*, *trigonalis* **spp. n.** Jura Russlands, BORISSJAK, St. Petersburg, Mém. Com. géol. **29** (1-22, 23-35).—*M. jurassica* **sp. n.** Jurassic, North America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus.

Nat. Hist. **22**.—*M. kaffraria* **sp. n.** Cretaceous, Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. **4** (294).—*M. missouriensis* **sp. n.** Glen Park Limestone, WELLER, St. Louis, Mo., Trans. Acad. Sci. **16** (435-71).—*M. rionegrensensis* **sp. n.** Upper Cretaceous, Patagonia, IHERING, Revist. Mus. La Plata **11** (235).—*M. (Brachydontes) striatissima* **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (53).

†*Modiolarea jurassica* **sp. n.** Jurassic, N. America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus. Nat. Hist. **22**.

Modiolaria calceata **sp. n.** Persian Gulf, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (801-2).—*M. perstriata* **sp. n.** Masthead Reef, Q., HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **31** (472).

†*Modiolopsis podolica* **sp. n.** Palæozoic, Poland, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. **19** (241).

†*Modiomorpha lamellosa* **sp. n.** Glen Park Limestone, WELLER, St. Louis, Mo., Trans. Acad. Sci. **16** (455-71).—*M. pallida* **sp. n.** Devonian, Germany, SCHMIDT, Berlin, Zs. D. geol. Ges. **57** (556).

Mora v. *Tellina*.

Montacuta obliquans **sp. n.** Persian Gulf and G. of Oman, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (817).

Montaguia chareoti (46), *turqueti* (47) **spp. n.** Antarctic, LAMY, Bul. Mus. Paris, **12**.

Mutela angustata Sow. **var. n.** *ponderosa*, GERMAIN, Bul. Mus. Paris, **12** (56).

†*Myalina letmathensis* **sp. n.** Devonian, Germany, SCHMIDT, Berlin, Zs. D. Geol. Ges. **57** (555).—*M. ampliata* Ryck. **var. n.** *pannonica*, FRECH, Földt. Közl., **36**.

†*Myoconcha* ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).

Myodora pulleinei **sp. n.** Mast Head Reef, Q., HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **31** (473).

†*Myophoria carnica* **sp. n.** Permian, Carnia, GORTANI, Riv. Ital. Pal. **12** (116).

†*Myophoriopsis* (?) *carbonifera* **sp. n.** Carboniferous, Carnian Alps, GORTANI, Boll. Soc. Geol. Ital. **24** (563).

†*Mysia pacifica* **sp. n.** Post Tertiary, Japan, TOKUNAGA, J. Coll. Sci. **21** (53).

†*Mytilarca pernoides* **sp. n.** Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. **14** (47 F).

Mytilus, spermatozoa, KUPELWIESER.—Parasitic *Nematopsis*, LÉGER, Paris, Bull. ass. franç. avanc. sci. **1905** (331).—*M. edulis*, parasite, NICOLL, Ann. Mag. Nat. Hist. London **17** (148).—*M. edulis*, L., Vorkommen in grossen Tiefen des Weissen Meeres, KNIPOWITSCH, St. Petersburg, Verh. Russ. mineral. Ges. **43** (271-7).

†*Neacra granum* (Matheron MS.) **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (75).—*N. osiridis* **sp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (199).

†*Neithea* Drouet, notes on the genus (213-22); *N. böckhi* (244-7), *almusana* (227-8) **spp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52**.—v. *Pecten*.

†*Nemodon natalensis*, Bail. re-described and figured, Woods, Cape Town, Ann. S. Afric. Mus. **4** (289).

Neolepton antipodum, New Zealand, figd., HEDLEY, Wellington, Trans. Proc. N. Zealand Inst. **38** (74).

Nephronias flucki **sp. n.** America, BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. **30** (393-5).

Nodularia douglasiae **subsp. n.** *taivanica*, Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. **57** (750).

Nucula consentanea **sp. n.** Persian Gulf and Arabian Sea, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (791).—*N. (Acila) granulata* **sp. n.** Bay of Bengal, SMITH, Ann. Mag. Nat. Hist., London **18** (251).

†*Nucula*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).—*N. glenparkensis*, *diversoides* **spp. n.** Glen Park Limestone, WELLER, St. Louis, Mo., Trans. Acad. Sci. **16** (435-71).—*N. michalskii* **sp. n.** Tertiary, Russia, SOKOLOV, St. Petersburg, Mem. Com. geol., n. s. **18** (5).—*N. subcancellata*

sp. n. Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. **45** (54).

†*Nuculana* **sp.**, Woods, Cape Town, Ann. S. Afric. Mus. **4** (287).

†*Nuculites barretti* **sp. n.** Palaeozoic, New York, SHIMER, Albany, N.Y., St. Educ. Dept., Mus. Bull. **80** (173-269).—*N. lunulata* **sp. n.** Paleozoic, South Africa, SCHWARTZ, Grahamstown, Rec. Albany Mus. **1** (379).

†*Opis haldonensis* **sp. n.** Cretaceous, England, Woods, London, Monogr. Paleont. Soc. **2** (119).

†*Orthonota impressa*, *solenoides*, figd., SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. **19**.

Ostrea, oyster beds invaded by an Algal, FABRE-DOMERGUE, Paris, C.-R. Acad. sci. **142** (1223-5).—Sur le gisement huître naturel de la Macta (Algérie) et le régime d'écoulement de cette rivière, BOUNHIOL, Paris, C.-R. Acad. sci. **142** (593-5).

†*Ostrea lingula*, *provincialis* **spp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (46-7).—*O. irregularis* **sp. n.** Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. **21** (68).—*O. haitensis* Sow., Tertiary, Panama, figd., JOUKOWSKY, Genève, Mém. Soc. Phys. **35** (170).—*O. (Alectryonia) semiarmata*, *aquillerae* **spp. n.** Senonian, Cardenas, Mexico, BÖSE, Mexico, Bol. Inst. geol. **24** (44-9).—*O. (A.) subarcotensis* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (186-8).

†*Oxytoma*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).

†*Palaeonodonta ernae* (52), *sophiae* (53), *faba* (54) **spp. n.** Permian, Bohemia, SCHMIDT, N. Jahrb. Min. **1905**, I.

†*Palaeoneilo boyesi* (377), *areolata* (378) **spp. n.** Paleozoic, South Africa, SCHWARTZ, Grahamstown, Rec. Albany Mus. **1**.

†*Panopaea mermera* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (310-1).

Paphia v. *Mesodesma*.

†*Parallelipipedum* v. *Area*.

†*Patinopecten* v. *Pecten*.

Peeten, locomotion and mode of life, ANTHONY.—Swimming mechanism, VLÈS, Paris, C.-R. Acad. sci. **143** (611-3).—*P. jacobaeus*, histology of heart, KOZÍNSKI, Kraków, Rozpr. Akad. **46** B (55-64).—*P. eous* (808), *thyrideus* (809), (*Vola*) *dorotheae* (810) **spp. n.** Persian Gulf and Arabian Sea, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906**.—*P. (Chlamys) tamsi* (243) Venezuela, (*C.*) *nympha* (246) Caribbean Sea? **spp. n.**, BAVAY, J. Conchyliol., Paris **53**.—*P. (C.) hastatus* **var. n.** *albidus*, (*Pseudamussium*) *randolphi* **var. n.** *tillamookensis*, California, ARNOLD, Washington D.C., U. S. Geol. Surv. Prof. Pap. **47**.—*P. opercularis*, note with **varr. n.**, MONTEROSATO, Naturalista Sicil., Palermo **18** (145).—*P. opercularis* **var. n.** *perdix*, BAVAY, J. Conchyliol., Paris **53** (245).—*P. tchuelehui* d'Orbigny **varr. n.**, BAVAY, J. Conchyliol. **54** (9).—*P. jacobaeus* Lin., **var. keppeliana** Sby., figd., DAUTZENBERG & FISCHER, Monaco, Res. camp. sci. **32** (72).

†*Peeten*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).—*P. bellerophontis* (108), *pseudocacnus* (109), *salinchieta* (110) **spp. n.** Permian, Carnia, GORTANI, Riv. Ital. Pal. **12**.—*P. krenneri* (206-7), *vertebratus* (207-8), (*Chlamys*) *széremensis* (208-10) **spp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52**.—*P. radkiewiczzi* **sp. n.** Tertiary, Russia, SOKOLOV, St. Petersburg, Mem. Com. geol., n. s. **18** (41).—*P. santarosanus* (23), *azteus* (72) **spp. n.** Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. **22**.—*P. tokyoensis* (65), *pulchellimus* (67) **spp. n.** Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. **21**.—*P. (Chlamys) calkinsi*, *landesii*, *proarus* **spp. n.** Eocene, California; *P. sanctae-eruzensis*, (*Chlamys*) *brammeri*, (*Propeamussium*) *elallamensis*, *waylandi* **spp. n.** Oligocene, California; *P. carrizoensis*, *keppi*, (*Patinopecten*) *oreni*, (*Chlamys*) *hamlini*, *nutteri*, *sespeensis*, (*Lyropecten*) *bowersi*, *miquelensis*, *perrini*, *vaughani*, (*Plagioctenium*) *andersoni*, *eldridgei*, *neahensis*, (*Pseudamussium*) *lompicoensis*, (*Propeamussium*) *stanfordensis*, (*Amussium*) *lompocensis* **spp. n.** Miocene, California; *P. auburni*, *coalingaensis*, *lecontei*, *merriami*, *roydesi*, (*Patinopecten*) *healeyi*, *purissimaensis*, *turneri*, (*Chlamys*) *bartschi*, *bellilamellatus*, *lawsoni*, *washburnei*, *wattsi*, (*Lyropecten*) *ashleyi*, (*Plagioctenium*) *cooperi*, (*Pro-*

peamussium) *riversi* **spp. n.** Pliocene, California; and **varr. n.**, ARNOLD, Washington D.C., U. S. Geol. Surv. Prof. Papr. **47**.—*P. sp.*, Tertiary, Panama, figd., JOLKOWSKY, Genève, Mém. Soc. Phys. **35** (172-3).—*P. spp.*, Obermediterranean, VÁDÁSZ, Földt. Közl., **36**.—*P. (Aequipeeten) decemeostatus* Münster, *peratus* Woods, figd., PETRASCHKE, Wien, Jahrb. geol. Rchs. Anst. **55** (429-31).—*P. (Camptonectes) kulkowskyi* **sp. n.** Cretaceous, Bohemia, PETRASCHKE, Wien, Jahrb. geol. Rchs. Anst. **55** (431).—*P. (Chlamys) capensis*, (*Aequipeeten*) *kossmati* **spp. n.** (296-7) Cretaceous, Pondoland; *P. (Chlamys) amapondensis* Griesb. re-described and figured (295); *P. (Camptonectes) sp.* (297); *P. (Neithea) quinqueostatus* Sowerb. (298), Woods, Cape Town, Ann. S. Afric. Mus. **4**.

Pectunculus, mode of locomotion, VLÈS, Paris, Bull. Soc. Zool. **28** (114-7).—*P. heroicus* **sp. n.** Persian Gulf, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (798).—*P. formosus*, Rv. **var. n.** *tumida*, Fogo, Cape Verd Is., DAUTZENBERG & FISCHER, Res. Camp. sci. **32** (77-8).

†*Pectunculus hungaricus* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (245-6).—*P. williamsi* **sp. n.** Tertiary, Russia, SOKOLOV, St. Petersburg, Mem. Com. geol., n. s. **18** (13).—*P. africanus* Griesb. re-described and figured, Woods, Cape Town, Ann. S. Afric. Mus. **4** (291).

†*Perna Čerevičiana* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (234-5).

Petricola pholadiiformis at Dunkerque, LESDAIN.

†*Petricola hippuritarum* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (229).

Phacoides (Lucinoma) vestita **sp. n.** Maio, Cape Verd Is., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (90-1).

†*Phacoides pennsylvanicus* **var. n.** *somersensis*, Bermudas, VERRILL, New Haven, Conn., Trans. Acad. Arts Sci. **12**.

Philobrya wandelensis **sp. n.** Antarctic, LAMY, Bul. Mus., Paris **12** (50).—*P.*

parallelogramma **sp. n.** Sydney, HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **30** (544).—*P. scabra, reeapitula* **spp. n.** Mast Head Reef, Q., HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **31** (470-1).

†*Pholadomya aegyptiaca* (185), *tricostata* (186), (?) *senilis* [Mayer-Eymar MS.] (185-6) **spp. n.** Tertiary, Egypt, OPPENHEIM, Palaeontographica **30**.—*P. obscura* **sp. n.** Jurassic, N. America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus. Nat. Hist. **22**.

Pholas candida, Trematode parasites, *Cercaria pectinata* Huet (163-4), PEL-SENEER, **3**.

†*Pholas nanus* **sp. n.**, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).—*P. pseudousturtensis, serinium* **spp. n.** Miocene, Novotcherkassk, BOGATCHEW, St. Petersburg, Bull. Com. géol. **24** (159).

Pinna natalensis **sp. n.** S. Africa SMITH, Ann. Natal Govt. Mus. **1** (60).

†*Pinna jurassica* **sp. n.** Jurassic, N. America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus. Nat. Hist. **22**.—*P. raricosta* **sp. n.** Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landes- andt. **45** (45).

†*Pironaca* Meneghini v. *Hippurites*.

Pisidium minusculum, fragillimum, levissimum, subrotundum, friersoni **spp. n.** United States, STERKI, Nautilus **20** (17-20).—*P. neglectum* **sp. n.**, STERKI, Nautilus **20** (87-9).—*P. planatum* **sp. n.** Madagascar, ANCEY, Nautilus **20** (46).—*P. proximum* **sp. n.** United States, STERKI, Nautilus **20** (5-6).—*P. abditum* **subsp. n.** huachucaeum S. W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58**.—*P. variabile* **varr. n.** brevis, hybridum; *P. noveboracense* **varr. n.** expansum, elevatum, quadrilum, lineatum, fraternum, alabamense, STERKI, Nautilus **19** (118-20).

Placuna, adductor muscle, etc., ANTHONY, Paris, Bull. Ass. franç. avanc. sci. **1905** (334).—*P. placenta*, pearl fishery, HORNELL, Repts. Ceylon Mar. Biol. Lab. **1** (41-54).

†*Plagiocetenium* v. *Pecten*.

†*Pleuromya?* *concentrica* **sp. n.** Jurassic, N. America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus. Nat. Hist. **22**.

Pliodon (Cameronia) hardeleti (57), *tchadiensis* (60) **spp. n.** Lake Tchad, GERMAIN, Bul. Mus. Paris, **11**.

Poroleda lanceolata, New Zealand, figd., HEDLEY, Wellington Trans. Proc. N. Zealand Inst. **38** (71).

Poromya undosa **sp. n.** off Sydney, 300 fath., HEDLEY & PETTERD, Sydney, N.S.W., Rec. Austr. Mus. **6** (224).

†*Pracconia*, note on, COLLOT, Feuille jeunes natural., Paris **36** (25).

†*Propeamusium* v. *Pecten*.

†*Protocardia hillana* Sow. var., Woods, Cape Town, Ann. S. Afric. Mus. **4** (307).

†*Psammodia producta* **sp. n.** [Mayer-Eymar, MS.] Tertiary, Egypt, OPPENHEIM, Palaeontographica **30** (181-2).

Pseudamusium v. *Pecten*.

†*Pseudomonotis forojuliensis* (104), *irregularis* (105) **spp. n.** Permian, Carnia, GORTANI, Riv. Ital. Pal. **12**.

†*Psilomya* v. *Liopistha*.

†*Pterinea occidentalis* **sp. n.** Palaeozoic, Canada, WHITEAVES, Ottawa, Geol. Surv. Canada **3** (287).—*P. opportuna* Barr. (241), *ventricosa* Gdf. (240) figd., SIEMIRADZKI, Wien, Beitr. Pal. Geol. Oest.-Ung. **19**.

†*Pteropsis* (?) *bullata* **sp. n.** Tertiary, Philippines, SMITH, Philippine J. Sci. **1** (629).

†*Ptychomya elegans* **sp. n.** Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. **45** (76).

†*Quenstedtia planulata* **sp. n.** Jurassic, N. America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus. Nat. Hist. **22**.

†*Radiolites*, classification, TOUCAS, Paris, Bul. Soc. geol. **5** (523).

†*Radula* v. *Lima*.

†*Sanguinolites niger* (304), *acer* (305) **spp. n.** Devonian, S. Africa, REED, London, Geol. Mag. **3**.

Scapharea v. *Area*.

Scintilla pulehra **sp. n.** Persian Gulf and G. of Oman, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (818).

†*Semele* (?) *dalli* **sp. n.** Tertiary, Philippines, SMITH, Philippine J. Sci. **1**, (630).

†*Septifer sturgisensis* sp. n. Jurassic, N. America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus. Nat. Hist. **22**.—*S. variabilis* sp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (238-40).

†*Siliqua aequilatera* sp. n. Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. **45** (73).

†*Solecurtus longoratus* sp. n. Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. **45** (71).—*S.* sp. WOODS, Cape Town, Ann. S. Afric. Mus. **4** (303).

Solen fonesii Dkr., *viridis* Say, anatomy, BLOOMER, London, Proc. Malac. Soc. **7** (18).

†*Solen matheroni* sp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (72).

Sphaerium hendersoni sp. n. Colorado, STERKI, Nautilus **20** (69).—*S. victoriae* sp. n. Victoria Nyanza, SMITH, London, Proc. Zool. Soc. **1906** (186).—*S. solidulum*, pathology, STERKI, Nautilus **20** (11).—*S. stamineum* var. n. *forbesi*, Illinois, BAKER, Nautilus **20** (21-2).

†*Sphaerium florissantense* sp. n. Colorado, COCKERELL, New York, Bull. Amer. Mus. Nat. Hist. **22**.

†*Sphaerulites*, notes on the genus; *S. solutus* sp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (276-89).

†*Sphenia* ? *pholadum* sp. n. Paleocene, Egypt, OPPENHEIM, Palaeontographica **30** (192).

†*Sphenotus longissimus* sp. n. Devonian, Germany, SCHMIDT, Berlin, Zs. D. Geol. Ges. **57** (557).

Spondylus glorianus sp. n. Persian Gulf, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (811).

†*Stirpulina bacillum* Brocchi, Beschreibung, VADÁSZ, Földt. Közl. **36**.

†*Strigilla* v. *Tellina*.

Syndesmya cistula sp. n. Persian Gulf and Gulf of Oman, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (825).—*S. grimaldii*, *demosia* spp. n. Cape Verd Is., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (93-4).—*S. alba*, Trematode parasites; *Cercaria myocercoides* sp. n. (162-3), *C. setifera* Müll.

(x-9720 r)

(164-5), *C. nigrotincta* sp. n. (166), *C. syndesmyae* sp. n. (172-3), *Bucephalus haimeanus* Lac.-Duth. (176-7), PELSENEER, **3**.—*S. (Abra) seurati* sp. n. Gambiers, LAMY, Bull. Mus., Paris **12** (210).

†*Tancredia transversa* sp. n. Jurassic, N. America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus. Nat. Hist. **22**.

Tapes aureus and its allies, notes, JUKES-BROWNE, Leeds, J. Conch. **11** (275).—*T. decussatus*, Trematode parasites; *Cercaria pectinata* Huet (163-4), PELSENEER, **3**.—*T. pullaster*, Trematode parasites; *Cercaria pectinata* Huet (163-4), *Bucephalus haimeanus* Lac.-Duth. (166-7), PELSENEER, **3**.

†*Tapes meridionalis* (67), *subfragilis*, (68) spp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10**.—*T. transerta* (300-1), (*Baroda*) *flagellifera* (301-2) spp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica **52**.—*T. secundus* sp. n. Miocene, Novotcherkassk, BOGATCHEW, St. Petersburg, Bull. Com. géol. **24** (159-88).—*T. (?) loboöensis* sp. n. Tertiary, Philippines, SMITH, Philippine J. Sci. **1** (629).

Tellina (Arcopagia) altissima sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist., London **18** (259).—*T. (?) Tellinella asmena* (818-9), (*Moera*) *miracyllium* (820), *rosamunda* (820-1), (*Tellinula*) *claudia* (823) spp. n. Persian Gulf and Arabian Sea, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906**.—*T. fabrefacta* Pilsbry (new to Australia) Masthead Reef, Q., HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **31** (478).—*T. (Macoma) calcaria* Chemn. (342-3), *torelli* Steenstr. (343-5), *meesta* Desh. (345-8), *loveni* Steenstr. (348-50) figd., JENSEN, Copenhagen, Meddel. Grönland **29**.—*T. solidula*, Trematode parasites; *Cercaria dichotoma* Müller (173-4), PELSENEER, **3**.

†*Tellina oralis* sp. n. Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. **45** (64).—*T. serri-costata* (43), *ojiensis*, *nipponica* (44) spp. n. Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. **21**.—*T. (Moera?) fajumensis* (178), *siutensis* (178-9), (*Strigilla*) *formosissima* (180) spp. n. Tertiary, Egypt OPPENHEIM, Palaeontographica **30**.

Tellinella v. *Tellina*.

Tellinula v. *Tellina*.

†*Teredo libyca* [Mayer-Eymar MS], **sp. n.** Palaeocene, Egypt, OPPENHEIM, *Palaeontographica* **30** (206-7).—*T. sp.*, Woods, Cape Town, *Ann. S. Afric. Mus.* **4** (309).

†*Thetis schauburgensis* **sp. n.** Cretaceous, Germany, HARBORT, Berlin, *Abh. Geol. Landesanst.* **45** (62).

†*Thracia aegyptiaca* (187-8) **sp. n.** Lutetian, Egypt, OPPENHEIM, *Palaeontographica* **30**.—*T. colloti* **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, *Ann. Mus.* **10** (73).

†*Trachycardium v. Cardium*.

†*Trigonia*, ASCHER, Wien, *Beitr. Pal. Geol. OestUng.* **19** (135-72).—*T. beyrichi* **sp. n.** Cretaceous, Tripoli, KRUMBECK, *Palaeontographica* **53** (104-5).—*T. spinuloso-costata* **sp. n.** Cretaceous, Hungary, PETHÖ, *Palaeontographica* **52** (251-4).—*T. sturgisensis*, *poststriata* **spp. n.** Jurassic, N. America, WHITFIELD & HOVEY, New York, *Bull. Amer. Mus. Nat. Hist.* **22**.—*T. elegans* Bail. (293), *shepstonei* Griesb. (292) re-described and figured, Woods, Cape Town, *Ann. S. Afric. Mus.* **4**.

†*Trigonoarca v. Cucullaea*.—*T. capensis* Griesb. re-described and figured, Woods, Cape Town, *Ann. S. Afric. Mus.* **4** (288).

†*Tugonia lorioli* (200-1), *zitteli* (201), Lutetian, Egypt, OPPENHEIM, *Palaeontographica* **30**.

†*Unicardium hemirhytidum* **sp. n.** Jurassic, France, COSSMANN, Paris, *C.-R. ass. franc. avanc. sci.* **34** (290).

Unio pajakomboensis **sp. n.** Sumatra, BULLEN, London, *Proc. Malac. Soc.* **7** (15).—*U. (Cuncopsis) tauriformis* **sp. n.** Yunnan, FULTON, *Ann. Mag. Nat. Hist.*, London **17** (246).—*U. (Grandidieria) rothschildi*, *chefneuxi* **spp. n.** Lake Rudolph, NEUVILLE & ANTHONY, *Bul. Mus.*, Paris **12** (409).—*U. jourdyi* **var. n.** *ponderosa* (453); *U. dephinopterus* **n. n.** for *U. bialatus* Simpson non Desh. (456), DAUTZENBERG & FISCHER, *J. Conchyliol.* **53**.—*U. moneeti* Bourguignat **var. n.** *rubra*, GERMAIN, *Bul. Mus.*, Paris **12** (306).—*U. pictorum*, histology of heart, ŁOZIŃSKI, Kraków, *Rozpr. Akad.* **46** B (55-64).

Ventricardia lutea, New Zealand, figd., HEDLEY, Wellington, *Trans. Proc. N. Zealand Inst.* **38** (73).

†*Veniliocardia v. Cyprina*.

Ventricola v. Venus.

Venus (Ventricola) verdensis (83-4), *pereffossa* (85-6) **spp. n.**; *V. (V.) casina* Lin. **var. n.** *albina* (83); Cape Verd Is. and Madeira, DAUTZENBERG & FISCHER, *Monaco, Res. Camp. sci.* **32**.

†*Venus ebergenyii* **sp. n.** Tertiary, Mexico, BÖSE, Mexico, *Bol. Inst. Geol.* **22** (28).—*V. merenaria* **var. antiqua**, deposit in New York city, WILSON, *Science* **23** (821-2).

Verticordia rhomboidea **sp. n.** New Zealand, HEDLEY, Wellington, *Trans. Proc. N. Zealand Inst.* **38** (72-3).—*V. torrida* **sp. n.** Mast Head Reef, Q., HEDLEY, Sydney, N.S.W., *Proc. Linn. Soc.* **31** (473).

Vesicomya cretacea, *brevis* **spp. n.** Bay of Bengal, SMITH, *Ann. Mag. Nat. Hist.*, London **18** (261).

Vola v. Pecten.

Whitearsia ? expansa, *undatum* **spp. n.**, RAYMOND, Pittsburg, Pa., *Ann. Carnegie Mus.* **3** (578).

Yoldia inaequisculpta (125), *valettei* (126) **spp. n.** S. Orkneys, LAMY, *Bul. Mus. Paris* **12**.—*Y. vicina* **sp. n.** Persian Gulf, SMITH, *Ann. Mag. Nat. Hist.*, London **18** (252).—*Y. artica* Vorkommen im Weissen Meere, KNIPOWITSCH, St. Petersburg, *Verh. Russ. mineral. Ges.* **43** (271-7).

CEPHALOPODA.

The structure of some primitive cephalopods, RUEDEMANN, **1**.

Structure of muscles of mantle, MARCEAU, Arcachon, *Trav. Soc. sci. station biol.* **8** (48-65).

Genitalia, CHUN, *Zool. Anz.*, Leipzig **29** (743-53).

Comparative morphology of male reproductive organs, MARCHAND, *Zool. Anz.*, **29** (753-8).

Oogenesis, LOYEZ.

Supposed coccidian parasites, MOROFF Paris, *C.-R. Acad. sci.* **142** (652-4).

Biscayan plankton Cephalopoda, HOYLE, London, Trans. Linn. Soc. **10** (159-62).

Collections of "Travailleur" and "Talisman" expeditions, FISCHER & JOUBIN, Bul. Mus. Paris **1906** (202-5).

Fossils described by Hyatt and Cragin, PRITCHETT.

Devonian fauna of Cornwall, CRICK, Penzance, Trans. R. Geol. Soc. Cornwall, **13** (63-71).

Nautiloidea gen. n. v. *Nautilites*.

Eudoceratidae, siphuncle, WHITEAVES, **6**.

Ammonoidea, genn. n. v. *Acanthodiscus*, *Berriasella*, *Blanfordia*, *Martolites*.—New but unnamed genus, Lias, Europe, STOLLEY, Braunschweig, Jahresber. Ver. Natw. **14** (53-7).—Convergence, DIENER, Wien, SitzBer. Ak. Wiss. **114** (663).—From Kimmeridge, Speeton, Yorks, DANFORD, Yorks. Proc. Geol. Polyt. Soc. **16** (101-14).—Antarctic, KILIAN, Paris, C.-R. Acad. sci. **142** (306-8).

Ceratitidae of the Muschelkalk, DIENER, **3**.

Phylloceratidae, notes, PRINZ, Centralbl. Min. Stuttgart **1906** (237); UHLIG, T.c. (417).

Dibranchiata, genn. n. v. *Bathothauma*, *Corynomma*, *Crystalloteuthis*, *Sandalops*, *Toxeuma*.

Cranchiidae, taxonomy, CHUN, Zool. Anz., Leipzig **31** (82-6).

Sepiolidae, luminous organs, MEYER, Zool. Anz., Leipzig **30** (388-92).

Abraliopsis sp., pelagic eggs and embryos, NISHIKAWA, **2**.

†*Acanthodiscus* gen. n. for *A. subradiatus* sp. n., etc., UHLIG, Wien, SitzBer. Ak. Wiss. **114** (609).

†*Acrochordiceras portisi* sp. n. Trias, Montenegro, MARTELLI, Paleontogr. Italica, Pisa **12** (132).

†*Actinocamax plenus* Bl. mut. n. *caucasicus*, Cretaceous, Caucasus, BOGDANOVIC, St. Petersburg, Mem. Com. Geol. **26** (103-6).

†*Actinoceras keewatinense* sp. n. Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. **14** (548).

†*Aganides kochi* sp. n. Jura, Ungain, PRINZ, Ann. Hist.-Nat. Mus. Nat. Hung., **4** (230).

†*Ammonites (Oegoceras) subtumidum* sp. n. Jurassic, N. America, WHITFIELD & HOVEY, New York, N.Y., Bull. Amer. Mus. Nat. Hist. **22**.

†*Anarcestes podolicus* sp. n., Palaeozoic, Podolia, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. **19** (229).

†*Anisoceras* v. *Hamites*.

†*Arniotites schmerbitzei* (279), *stantei* (280) spp. n. Trias, Germany, FRITSCH, Halle, Abh. natf. Ges. **24**.

†*Arpadites arpadis* var. n., MARTELLI, Paleontogr. Italica, Pisa **12** (127).

†*Baculites bailyi*, *capensis* spp. n. Cretaceous, Pondoland; *B. sulcatus*, Bail. noticed and figured, Woods, Cape Town, Ann. S. Afric. Mus. **4** (341-2).

†*Balatonites maeer* sp. n. Trias, Germany, FRITSCH, Halle, Abh. Natf. Ges. **24** (274).

†*Baltoceras* (?) *pusillum* sp. n. RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.

†*Barrandeoceras*, notes on species, WHITEAVES, Ottawa, Geol. Surv. Canada **3** (299).

Bathothauma gen. n.; *B. lyromma* sp. n., Atlantic, CHUN, Zool. Anz. **31** (86).

†*Belemnites*, notes on, DANFORD, Tr. Hull Geol. Soc. **6** (1-14).—*B. obtusus* sp. n. Jurassic, N. America, WHITFIELD & HOVEY, New York, N.Y., Bull. Amer. Mus. Nat. Hist. **22**.

†*Beneckeia denticulata* sp. n. Trias, Germany, FRITSCH, Halle, Abh. Natf. Ges. **24** (264).

†*Berriasella* gen. n. for *Hoplites privasensis* Pictet, etc., UHLIG, Wien, SitzBer. Ak. Wiss. **114** (601).

†*Blanfordia* [nom. preocc.] gen. n. for *Ammonites wallichi* Gray, UHLIG, Wien, SitzBer. Ak. Wiss. **114** (602).

†*Cameroceras curvatum* sp. n. Chazy formation, America, RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.

†*Ceratites*, division of, DIENER, Wien, SitzBer. Ak. Wiss. **114** (765).—**Subgen. n.** v. *Philippites*.—*C. bassanii* **sp. n.** Trias, Montenegro, MARTELLI, Paleontogr. Italica, Pisa **12** (125).

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Chiroteuthopsis talismani **sp. n.** S. Azores, FISCHER & JOUBIN, Bul. Muséum, Paris **12** (205).

†*Clinoceras ellipticum*, *podolicum* **spp. n.** Palaeozoic, Podolia, SIEMIRADZKI, Wien, Beitr. Geol. Pal. OestUng. **19** (226).

†*Coeloceras taramellii* **sp. n.** Lias, Italy, PARISCH & VIALE, Riv. Ital. Pal. **12** (160).—Notes on species, JOLY, Nancy, Bul. soc. sci. **6** (1-11).

†*Collina aculeata* (165), *linae* (166), **spp. n.** Lias, Italy, PARISCH & VIALE, Riv. Ital. Pal. **12**.

"*Conchorhynchus*," TILL, Wien, Jahrb. Geol. RchsAnst. **56** (89-154).

Corynomma **gen. n.**; *C. speculator* **sp. n.**, Atlantic, Indian Ocean, CHUN, Zool. Anz. **31** (85).

†*Crioceras sarta* **sp. n.** Senonian, Germany, MÜLLER & WOLLEMAN, Berlin, Abh. geol. Landesanst. **47** (20).

Crystalloteuthis **gen. n.**; *C. glacialis* **sp. n.**, Antarctic (85), CHUN, Zool. Anz. **31**.

Ctenopteryx, notes on, ASHWORTH & HOYLE.

†*Cyrtactinoceras champlainense* **sp. n.**, RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.

†*Cyrtendoceras* (?) *priscum* **sp. n.**, RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.

†*Cyrtoceras cambria* **sp. n.** Cambrian, China, WALCOTT, Washington, Nation. Mus. Proc. **29** (22).—*C. (?) cuneatum* **sp. n.** Paleozoic, Canada, WHITEAVES, Ottawa, Geol. Surv. Canada **3** (282).—*C. breve*, *podolicum* **spp. n.** Palaeozoic, Podolia, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. **19** (228).—*C. anormale* Barr., *formidandum* Barr., *intermedium* Blake, *sinon* Barr, *virax* Barr., figd., SIEMIRADZKI, Wien, Beitr. Pal. Geol. Oest.-Ung. **19** (227-8).—*C. cuneatum*, notes, WHITEAVES, Ottawa Natural. **20** (133).

†*Deltoceras vaningeni* **sp. n.**, RUEDEMANN, Albany, N.Y., St. Educ. Dept. Mus. Bull. **90**.

†*Dumorteria dumortieri* Thiolli **var. n. stricta**, PRINZ, Földt. Közl., Budapest **36** (57-8, 161-2).

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†*Endoceras*, siphuncle, WHITEAVES, Amer. Geol., Minneapolis **35** (23).—*E. (?) champlainense*, *hudsoni*, *magister* **spp. n.**, RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.

†*Eulophoceras natalense* Hyatt, figured, WOODS, Cape Town, Ann. S. Afric. Mus. **4** (337).

†*Eurystomites accelerans*, *amplectens* **spp. n.**, RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.

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†*Gonioceras chaziense* **sp. n.**, RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.

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†*Halorites trotteri* (5), *alternans* (6), **spp. n.** Trias, India, DIENER, Rec. Geol. Surv. India **34**.

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†*Hammatoceras bonarellii* **sp. n.** Lias, Italy, PARISCH & VIALE, Riv. Ital. Pal. **12** (159).

†*Haploceras (Lissoceras) psilodiscus* Jurassic, S. Carpathians, figd., SIMIONESCU, Publ. Adamachi Ac. Romana **13** (29-30).

†*Harpoceras buranense* **sp. n.** Lias, Italy, PARISCH & VIALE, Riv. Ital. Pal. **12** (148).—*H. (Grammoceras) steinmanni* Haug., Beschreibung, PRINZ, Math. Termt. Ért. **24**.

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†*Hoplites*, division of with new names, UHLIG, Wien, SitzBer. Ak. Wiss. **114** (591).—subgenn. **n. v.** *Kilianella*, *Neocomites*, *Sarasinella Solgeria*.

†*Indoceras baluchistanense*, development, NOETLING, Geol. u. paläont. Abh., Jena **12** 1906 (1-96); N. Jahrb. Min., **1**, 1905 (1).

†*Kilianella* **subgen. n.** of *Hoplites* for *H. hexiptycha* Uhlig, etc., UHLIG, Wien, SitzBer. Ak. Wiss. **114** (614).

Loligo, Innervation der Chromatophoren, SAINT-HILAIRE, Jurjev, Sitzb. Naturf. Ges. **15** (54-66).

†*Lytoeceras italiae* **sp. n.** Lias, Italy, PARISCH & VIALE, Riv. Ital. Pal. **12** (144).—*L. fasciculatum* **sp. n.** Jurassic, S. Carpathians (23); *L. adeloides, tripartitum*, figd. (22), SIMIONESCU, Publ. Adamachi Ac. Romana **13**.

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†*Martolites* **gen. n.** for *M. krafftii* **sp. n.** Trias, India, DIENER, Rec. Geol. Surv. India **34** (6).

†*Monophyllites taramellii* **sp. n.** Trias, Montenegro, MARTELLI, Paleontogr. Italica, Pisa **12** (135).

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†*Neocomites* **subgen. n.** of *Hoplites* for *H. neocomiensis* D'Orb., etc. UHLIG, Wien, SitzBer. Ak. Wiss. **114** (620).

Octopus, urinary secretion, GOMPEL & HENRI, Paris, C.-R. soc. biol. **60** (886-7).—*O. vulgaris*, histology of kidney, MAYER & RATHERY, Paris, C.-R. soc. biol. **60** (1121-3).—*O. vulgaris*, ganglion cells, GARISEFF, Paris, C.-R. soc. biol. **61** (201-2).

†*Oegoceras* **v.** *Ammonites*.

†*Oekotraustes binodosus* Jurassic, S. Carpathians, figd., SIMIONESCU, Publ. Adamachi Ac. Romana **13** (26-7).

†*Oncoceras pristinum* **sp. n.**, RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.

†*Ooceras scelyi*, (?) *lativentrum*, (?) *perkinsi* **spp. n.**, RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.

Opisthoteuthis depressa, anatomy, MEYER, Zs. wiss. Zool. **85** (183-269).—*O. depressa*, male reproductive organs, MEYER, Zool. Anz. **29** (758-60).

†*Oppelia fusca* Jurassic, S. Carpathians, figd., SIMIONESCU, Publ. Adamachi Ac. Romana **13** (27).

†*Orthoceras ekwanense* **sp. n.** Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. **14** (56 F).—*O. lentum*, *progressum*, (?) *vagum*, *modestum* **spp. n.**, RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.—*O. rex* **sp. n.** Paleozoic, South Africa, SCHWARTZ Grahamstown, Rec. Albany Mus. **1** (381).—*O. hisingeri* Boll., *kendalense* Blake, cf. *longulum* Barr, *podolicum* Alth., *pseudombricatum* Barr., *Roemeri* Alth., figd., SIEMIRADZKI, Wien, Beitr. Geol. Pal. OestUng. **19** (223-5).

†*Orygoceras* **gen. n.**, RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.

†*Pachydiscus supremus* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (88-94).

†*Palacoteuthis* TILL, Wien, Jahrb. Geol. RchsAnst. **56** (89-154).

†*Peltoceras*, notes on spp., SALFELD, N. Jahrb. Min. **1906** 1 (80).

†*Perisphinctes subtiliformis* (40), *suplanus* (38), *transylvanicus* (38) **spp. n.** Jurassic, S. Carpathians; *P. aurigerus* (34), *moorei* (34), *orion* (36), *procerus* (37) figd., SIMIONESCU, Publ. Adamachi Ac. Romana **13**.

†*Philippites* **subgen. n.** of *Ceratites* for *C. erasmi*, DIENER, Wien, SitzBer. Ak. Wiss. **114** (723).

†*Phragmoceras lineolatum* **sp. n.** Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. **14** (57F).

†*Phylloceras diegoi* **sp. n.** Cretaceous, Madagascar, BOULE, LEMOINE & THÉVENIN, Ann. Palaeont. **1**.—*P. mediterraneum* (11-3), *flabellatum* (14-5), *euphyllum* (15-6), *kudernatschi* (16-8), *disputabile* (18-20), *subobtusum* (20-2), Jurassic, S. Carpathians, figd., SIMIONESCU, Publ. Adamachi Ac. Romana **13**.—*P. baconicum* Hantk. em. Prinz; *P. hantkeni* Schloeb. em. Prinz; *P. cf. zetes* Orb., Beschreibung, PRINZ, Math. Termt. Ért. **24**.—*P. spp.* figd., WOODS, Cape Town, Ann. S. Afric. Mus. **4** (331-2).

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†*Pleuronutilus stautei* **sp. n.** Trias, Germany, FRITSCH, Halle, Abh. Natf. Ges. **24** (246).

†*Poterioceras kentlandensis* **sp. n.**, ROWLEY in GREENE, Cont. Indiana Palaeont. **2** pt. 1.

†*Protocycloceras whitfieldi* **sp. n.**, RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.

†*Pseudophyllites indra* Forb. noticed, WOODS, Cape Town, Ann. S. Afric. Mus. **4** (334).

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†*Reineckia angustilobata*, note, COLLOT, Feuille jeunes natural., Paris **36** (25).

†*Rhabdoceras*, development, JANENSCH, Centralbl. Min. Stuttgart **1906** (710).

†*Rhacophyllites vredenburgi* **sp. n.** Trias, Baluchistan, DIENER, Rec. Geol. Surv. India **34** (18).

"*Rhyncholithes*" of the Neocomian of Silesia; *R. bohémica*, *cassianus*, *cordiformis*, *hoheneggeri*, *neocomiensis*, *obtus*, *oxfordiensis*, *silesiacus*, *striatus*, *sulcatus*, *uhligi* **spp. n.**, TILL, Wien, Jahrb. Geol. RchsAnst. **56** (89-154).

"*Rhynchoteuthis*," TILL, Wien, Jahrb. Geol. RchsAnst. **56** (89-154).

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†*Sarasinella* **subgen. n.** of *Hoplites* for *H. varians* **sp. n.**, &c., UHLIG, Wien, SitzBer. Ak. Wiss. **114** (618).

†*Scaphites*, development, SMITH, Chicago, J. Geol. **13** (635).—*S. sp.* figd., WOODS, Cape Town, Ann. S. Afric. Mus. **4** (343).

"*Scaptorhynchus*," TILL, Wien, Jahrb. Geol. RchsAnst. **56** (89-154).

†*Schloebachia kittli*, Neocomian, Austria, RICHARZ, Wien, Jahrb. Geol. RchsAnst. **54** (344).—*S. umbulazi* Bail. noticed, WOODS, Cape Town, Ann. S. Afric. Mus. **4** (336).

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†*Schluteria bodei* **sp. n.** Senonian, Germany, MÜLLER & WOLLEMANN, Berlin, Abh. geol. Landesanst. **47** (13).

Sepiola, Innervation der Chromatophoren, SAINT-HILAIRE, Jurjev, Sitzb. Naturf. Ges. **15** (54-66).—*S. scandica* Steenst. **var. n. macrocephala**, FISCHER & JOUBIN, Bul. Mus. Paris **12**.

†*Sirenites elegantiformis* **sp. n.** Trias, India, DIENER, Rec. Geol. Surv. India **34** 10).

†*Solgeria* **subgen. n.** of *Hoplites* for *H. leopoldina* D'Orb., etc., ULLIG, Wien, Sitzber. Ak. Wiss. **114** (624).

†*Sonneratia cereviciana* **sp. n.** Cretaceous, Hungary, PETŰ, Palaeontographica, Stuttgart **52** (95-8).

†*Spherocheras microstomum*, Jurassic, S. Carpathians, figd., SIMIONESCU, Publ. Adamichi Ac. Romana **13** (32).

†*Spyroceras meridionale* **sp. n.** Paleozoic, Canada, WHITEAVES, Ottawa, Geol. Surv. Canada, Palaeoz. Foss. **3** (281).

†*Stephanoceras rectelobatum* Jurassic, S. Carpathians, figd., SIMIONESCU, Publ. Adamichi Ac. Romana **13** (30-1).

†*Tarphyoceras clarkei*, *multicameratum* **spp. n.**, RUEDEMANN, Albany, N.Y., St. Educ. Dept. Mus. Bull. **90**.

†*Tetragonites* **sp. aff. cala** Forb. figd., WOODS, Cape Town, Ann. S. Afric. Mus. **4** (335).

Toxeuma **gen. n.**; *T. belone* **sp. n.** India, CHUN, Zool. Anz. **31** (86).

†*Vaginocheras oppletum* **sp. n.** Chazy formation, America, RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.

†*Vasseurina*, notes on, LERICHE.

†*Volborthella* Schmidt, Bau der Schale, KARPINSKY, St. Peterburg, Verh. Russ. mineral. Ges. **41** (31-42).

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ARRANGED BY

D. SHARP

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Champion, G. C. Prof. Berlese's apparatus for collecting arthropods. *Ent. News*, Philadelphia, Pa., **17**, 1906, (182).

Chyzer, Kornél. Téli gyűjtés Zelenikán. [Sammeln im Winter in Zelenika.] *Rovart. L.*, Budapest, **13**, 1906, (91-95).

Evans, W. Some *Invertebrata*, including *Ixodes borealis* from St. Kilda. *Ann. Scot. Nat. Hist.*, Edinburgh, **1906**, (84).

Fabre, J. H. Souvenirs entomologiques. Etudes sur l'instinct et les mœurs des Insectes. 9^e série. Paris (Delagrave), 1905, (1-375, av. fig.).

Fernald, H. T. Different kinds of types. *Ent. News*, Philadelphia, Pa., **16**, 1905, (196-198).

[**Filipčenko, Ju. A.**] Филиппченко, Ю. А. О происхождении жирового тела и нефроцитов у членистоногихъ. [Ueber die Abstammung des Fettkörpers und der Nephrocyten bei den Arthropoden.] *St. Peterburg, Trav. soc. nat. (Compt. Rend.)*, **37**, Nos. 5 and 6, 1906, (270-272).

Giesbrecht, W. *vide* Mayer, P.

Handlirsch, A. Über Phylogenie der Arthropoden. Wien, *Verh. ZoolBot. Ges.*, **1906**, (88-103).

Henneguy, F. Les modes d'insertion des muscles sur la cuticule chez les Arthropodes. Nancy, *C.-R. ass. anat.*, **8**, 1906, (133-140, av. fig.).

Houard, C. Contribution à la faune cécidologique de la Bretagne. Paris, *C.-R. ass. franç. avanc. sci.*, **34**, Cherbourg, 1905, 2^e Partie, 1906, (584-585).

Howard, L[eland] O[ssian]. Professor Berlese's apparatus for collecting small arthropods rapidly and in great quantities. *Ent. News*, Philadelphia, Pa., **17**, 1906, (49-53).

Japha, A. Begattungszeichen bei Gliedertieren. Königsberg, *Schr. physik. Ges.*, **47**, 1906, (87-88).

Jeannel, B. Contribution à l'étude de la faune de la grotte de Camon (Basses Pyrénées). Paris, *Bul. soc. ent.*, **1905**, (158-160).

Korschelt, E. 1. Über Morphologie und Genese abweichend gestalteter Spermatozoen. *Verh. D. zool. Ges.*, Leipzig, **16**, 1906, (73-82).

Korschelt, E. 2. Neues über den Ersatz verloren gegangener Gliedmassen bei den Arthropoden. *Natw. Rdsch.*, Braunschweig, **21**, 1906, (505-506).

Loeb, Leo. Granula and ameboid movements in the blood cells of arthropods. [Abstract.] New York, N.Y., *Proc. Soc. Exp. Biol. Med.*, **3**, 1906, (44-45).

Mayer, P. und Giesbrecht, W. Arthropoda. *Zool. Jahresber. für 1905*. Berlin, 1906, (1-71).

Mirande, Marcel. 1. Sur la présence d'un corps réducteur dans le tégument chitineux des Arthropodes. Paris, *Arch. anat. microsc.*, **7**, 1904, (207-231).

Mirande, M. 2. Sur une nouvelle fonction du tégument des Arthropodes considéré comme organe producteur du sucre. Paris, *Arch. anat. microsc.*, **7**, 1904, (232-238).

Mirande, M. 3. Sur la "fonction glycogénique" du tégument chez les animaux à chitine. Paris, *C.-R. ass. franç. avanc. sci.*, **34**, Cherbourg, 1905, 2^e Partie, 1906, (572-577).

Ost, I. Zur Kenntnis der Regeneration der Extremitäten bei den Arthropoden. *Arch. EntwMech.*, Leipzig, **22**, 1906, (289-324, 3 Taf.).

Peyerimhoff, P. de. Recherches sur la faune cavernicole des Basses-Alpes. Paris, *Ann. soc. ent.*, **75**, 1906, (203-222, av. carte).

Reh, L. Gliedertiere. [In: Anleitung zu wiss. Beobachtungen auf Reisen, 3 Aufl. Bd. 2.] Hannover (M. Jänecke), 1906, (683-730).

Rudow. Einige merkwürdige Gallenbildungen. Ent. Jahrb., Leipzig, **16**, 1907, (73-105).

Sajó, Károly. A rovarok feketével tarkázott piros védőszíne. [Die schwarz gesprenkelte rothe Schutzfarbe der Insekten.] Pótf. Term. Közl., Budapest, **38**, 1906, (63-73).

Szilády, Zoltán. Középiskolai rovargyűjteményterv. [Insektensammlungen für Mittelschulen.] Rovart. L., Budapest, **13**, 1906, (95-101, 114-119).

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GEOGRAPHY. 2427

Scotland, St. Kilda, Arthropoda **Evans, 2**.

X. CRUSTACEA

ARRANGED BY

R. SHELFORD.

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I.—TITLES.

N.B.—Titles in brackets refer to works that have been previously recorded in the Zoological Record.

- Airaghi, C.** Brachiuri nuovi o poco noti pel Terziario Veneto. Milano, Atti soc. ital. sc. nat., **44**, 1906, (202–208, pl. iv).
- Alcock, A.** Catalogue of the Indian Decapod Crustacea in the collection of the Indian Museum. Part III. *Macrura*. Fasciculus 1. The prawns of the *Peneus* group. Calcutta, 1906, (55, 9 pls.).
- Alessandri, G. de.** Studi monografici sui Cirripedi fossili d'Italia. Palaeontogr. Italica, Pisa, **12**, 1906, (207–324, pls. xiii–xviii).
- Almera, D. J.** Descripcion geológica de la comarca titulada "Plana de Vich," acompañada de una mapa topográfico-geológica. [Geological description of the region called "Plana de Vich," with a topographical-geological map.] Madrid, Mem. soc. esp. hist. nat., **3**, 1906, (423–468).
- Ami, H. M.** Preliminary lists of fossil organic remains from the Potsdam, Beekmantown (Calciferos), Chazy, Black River, Trenton, Utica, and Pleistocene formations comprised within the Perth Sheet (No. 119) in Eastern Ontario. Rep. Geol. Surv. Can., Ottawa, **14**, 1904, [1905], (80 J–89 J).
- Andrews, E[than] A[llen].** **1.** Partial regeneration of the sperm-receptacle in crayfish. J. Exp. Zool., Baltimore, Md., **3**, 1906, (121–128). [Abstract in Arch. EntwMech., Leipzig, **21**, 1906, (360).]
- Andrews, E. A.** **2.** The annulus ventralis. Boston, Mass., Proc. Soc. Nat. Hist., **32**, 1906, (427–480, pl.).
- Andrews, E. A.** **3.** Ontogeny of the *annulus ventralis*. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **10**, 1906, (122–137).
- Andrews, E. A.** **4.** The future of the crayfish industry. Science, New York, N.Y., **23**, 1906, (983–986).
- Andrews, E. A.** **5.** The crayfish industry. Science, New York, N.Y., **24**, 1906, (48).
- Andrews, E. A.** **6.** Geographical distribution of crayfish. Baltimore, Md., Johns Hopkins Univ. Cir., **25**, No. 5, 1906, (100–103).
- Andrews, E. A.** **7.** Egg-laying of crayfish. Amer. Nat., Boston, Mass., **40**, 1906, (343–356).
- Anglas, J.** Les animaux de laboratoire. L'Écrevisse (anatomie et dissection). 3 planches coloriées à feuillets découpés et superposés. Paris (Schleicher), 1905, (3). 28 cm.
- Annandale, N.** **1.** Stalked barnacles (*Cirripedia pedunculata*) in the Colombo Museum. Spolia Zeylan., **3**, 1906, (193–195).
- Annandale, N.** **2.** Note on a rare Indo-Pacific barnacle. Calcutta, J. As. Soc. Beng., **2**, 1906, (207–208).
- Annandale, N.** **3.** Natural History Notes from the R.I.M.S. Ship "Investigator," Capt. T. H. Heming, R.N., commanding.—Series III., No. 12. Preliminary report on the Indian stalked barnacles. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (389–400).
- Annandale, N.** **4.** Natural History notes from the R.I.M.S. Ship "Investigator," Capt. T. H. Heming, R.N., commanding.—Series III., No. 13. Two new barnacles dredged in 1905–6. Ann.

Mag. Nat. Hist., London, ser. 7, **18**, 1906, (14-47).

Annandale, N. 5. Report on the *Cirripedia* collected by Professor Herdman at Ceylon, in 1902. London, Rep. Pearl Oyster Fish. **5**, 1906, (137-150).

Appellöf, A[dolf]. Die dekapoden Crustaceen. 1. Verzeichnis der im westlichen Norwegen südlich von Stat gefundenen Arten. 2. Vertikale Verbreitung der dekapoden Crustaceen des westlichen Norwegens. 3. Die dekapoden Crustaceen des Nordmeeres in zoogeographisch-biologischer Beziehung. In: Meeresfauna von Bergen redig. von A. Appellöf. 1906, (113-238, 2 Taf. u. 3 Kart.).

Apstein, C[arl]. 1. Plankton in Nord- und Ostsee auf den deutschen Terminfahrten. I. Teil. Wiss. Meeresunters., Kiel, Abt. Kiel, N.F. **9**, 1906, (1-26).

Apstein, C. 2. Lebensgeschichte von *Mysis mixta* Lillj. in der Ostsee. Wiss. Meeresunters., Kiel, Abt. Kiel, N.F., **9**, 1906, (239-260).

Artom, C[esare]. 1. La variazione dell' *Artemia salina* (Linn.) di Cagliari sotto l'influsso della salsedine. [Sunto.] Torino, Atti Acc. sc., **41**, 1906, (971-972).

Artom, C. 2. Il numero dei cromosomi e la maturazione dell' uovo dell' *Artemia* partenogenetica di Capodistria e dell' *Artemia* sessuata di Cagliari. Biologica, Torino, **1**, 1906, (5-10).

Artom, C. 3. Note critiche alle osservazioni del Loeb sull' *Artemia salina*. Biol. Centralbl., Leipzig, **26**, 1906, (204-208).

Artom, C. 4. Ricerche sperimentali sul modo di riprodursi dell' *Artemia salina* Lin. di Cagliari. Biol. Centralbl., Leipzig, **26**, 1906, (26-32).

Artom, C. 5. Osservazioni e raffronto tra le *Artemie* sessuate e le *Artemie* partenogenetiche. Biologica, Torino, **1**, 1906, (1-4).

Bagnall, R. S. *Trichoniscus pygmaeus*, G. O. Sars, a woodlouse new to the British fauna. Ann. Mag. Nat. Hist., London, ser. 7, **18**, 1906, (474).

Baker, W. H. Notes on South Australian Decapod Crustacea. Part IV.

Adelaide, S. Aust., Trans. R. Soc., **30**, 1906, (104-117, pls. i-iii).

Bassler, R. S. vide Ulrich, E. O.

Baudouin, Marcel. 1. Les parasites de la Sardine. Rev. sci., Paris, ser. 5, **3**, 1905, (715-722).

Baudouin, M. 2. Utilisation gastronomique des phénomènes de l'autotomie et de la régénération des pinces chez un crabe d'Andalousie. Rev. sci., Paris, ser. 5, **6**, 1906, (293-300).

Baudouin, M. 3. Le *Gelasimus Tangeri*, crustacé d'Andalousie: mœurs et chasse. Utilisation des phénomènes de l'autotomie et de la régénération des pinces. Ann. sci. nat. (zool.), Paris, ser. 9, **3**, 1906, (1-33).

Bell, James Carloten. 1. The reactions of crayfish to chemical stimuli. J. Comp. Neur. Psych., Granville, Ohio, **16**, 1906, (299-326).

Bell, J. C. 2. Reactions of the crayfish. Harvard Psych. Stud., Boston, Mass., **2**, 1906, (615-644).

Birge, E. A. A biological reconnaissance of some elevated lakes in the Sierras and the Rockies.—Report on the *Cladocera*. Lancaster, Pa., Trans. Amer. Microsc. Soc., **25**, 1904, (149-151, pl. xxv).

Böhm, J. Zu *Brachylepas cretacea* H. Woodward. Centralbl. Min., Stuttgart, **1906**, (449-450).

(**Bohn, Georges.** 1. Perceptions tactiles et musculaires des Arthropodes. Note biologique sur les Pagures. Paris, Bul. soc. ent., **1903**, (289-291).)

(**Bohn, G.** 2. Sur le phototropisme des larves de homard. Paris, C.-R. Acad. sci., **141**, 1905, (963-966).)

[[**Borissiak, A.**] Борисьякъ, А. Обь остаткахъ ракообразныхъ изъ нижнемиловыхъ отложений Крыма. [Sur les restes de Crustacés dans les dépôts du crétacé inférieur de la Crimée.] St. Peterburg, Bull. Com. géol., **23**, 1904, (411-420, pl. xiii.); rés. fr., (420-423).]

Bouvier, E. L. 1. Sur les *Gennadas* ou Pénéides bathypélagiques. Bull. Mus., Monaco, No. **80**, 1906, (1-13).

Bouvier, E. L. 2. Sur les *Gennadas* ou Pénéides bathypélagiques. Paris, C.-R. Acad. sci., **142**, 1906, (686-690).

Bouvier, E. L. 3. Suite aux observations sur les *Gennadas* ou Pénéides bathypélagiques. Paris, C.-R. Acad. sci., **142**, 1906, (746-749).

Bouvier, E. L. 4. Sur l'*Haliporus androgynus*, Pénéide nouveau provenant des campagnes du Talisman. Bul. Muséum, Paris, **12**, 1906, (253-256).

Bouvier, E. L. 5. Observations sur les Pénéides du genre *Haliporus* Sp. Bate. Bull. Mus., Monaco, No. **81**, 1906, (1-10).

Bouvier, E. L. 6. Observations sur la genre *Acanthophrys* A. M.-Edw. et catalogue des *Acanthophrys* du Muséum. Bul. Muséum, Paris, **12**, 1906, (485-490).

Bouvier, E. L. 7. Sur les Crustacés Décapodes marins recueillis par M. Gravel en Mauritanie. Bul. Muséum, Paris, **12**, 1906, (185-187, fig. 1). [Reprinted in] Mission des Pêcheries de la côte occidentale d'Afrique. Paris, 1906, No. 7, (95-97); and in Bordeaux, Actes soc. linn., **61**, 1906, (198-200).

Bouvier, E. L. 8. Sur une petite collection de Crustacés (Décapodes et Stomatopodes) recueillis par M. Charles Gravier à l'île San Thomé (Afrique occidentale). Bul. Muséum, Paris, **12**, 1906, (491-498).

Bouvier, E. L. 9. Sur une nouvelle collection de Crustacés Décapodes rapportés du Japon par M. Harmand. Bul. Muséum, Paris, **12**, 1906, (480-485).

Bouvier, E. L. 10. Quelques mots sur les grands Crustacés Décapodes de la côte occidentale du Maroc. Paris, Bul. soc. ent., **1906**, (68-69).

Bouvier, E. L. 11. Sur le commensalisme d'une Porcellane. Paris, Bul. soc. ent., **1906**, (28-29).

Bouvier, E. L. 12. La faune bathypélagique. Rev. gén. sci., Paris, **17**, 1906, (490-492).

(**Bouvier, E. L. 13.** Sur les macroures nageurs (abstraction faite des Carides) recueillis par les expéditions américaines du "Hassler" et du "Blake." Paris, C.-R. Acad. sci., **141**, 1905, (746-749).)

(**Bouvier, E. L. 14.** Sur un exemplaire remarquable d'*Astacus fluviatilis* var. *torrentium* Schrouck. Paris, Bul. soc. ent., **1904**, (254-255))

(**Bouvier, E. L. 15.** Observation biologique. Paris, Bul. soc. ent., **1903**, (245).)

Brady, G. S. 1. On the Entomostreacan fauna of the New Zealand lakes. London, Proc. Zool. Soc., **1906**, (692-701, pls. xlviii-li).

Brady, G. S. 2. On the Crustacean fauna of a salt-water pond at Amble. Newcastle, Trans. Nat. Hist. Soc., **1**, 1906, (330-336, pls. ix, x).

Breemen, P[iet]er J[ohan] van. 1. Bemerkungen über einige Planktonformen. Helder, Verh. Onderz. Zee, **1**, 5, 1906, (1-8, 1 pl.).

Breemen, P. J. van. 2. Marine Planktoncopepoden van Nederland. Helder, Tijdschr. Ned. Dierk. Ver., Ser. **2**, **10**, 1906, (173-203).

Brehm, V. 1. Ein neuer *Corycaeus* aus dem adriatischen Meere. Arch. Hydrobiol., Stuttgart, **1**, 1906, (392-393).

Brehm, V. 2. Zur Besiedlungsgeschichte alpiner Seebecken. Verh. Ges. D. Natf., Leipzig, **77**, part 2, 1906, (198-202).

Brehm, V. 3. Untersuchungen über das Zooplankton einiger Seen der nördlichen und östlichen Alpen. Wien, Verh. ZoolBot. Ges., **56**, 1906, (33-43).

Brehm, V. 4. Zur Planktonfauna des Gardasees. Arch. Hydrobiol., Stuttgart, **1**, 1906, (496-497).

Brehm, V. und Zederbauer, E. 5. Beobachtungen über das Plankton in den Seen der Ostalpen. Arch. Hydrobiol., Stuttgart, **1**, 1906, (467-495).

Brehm, V. und Zederbauer, E. 6. Beiträge zur Planktonuntersuchung alpiner Seen. IV. Wien, Verh. ZoolBot. Ges., **56**, 1906, (19-32).

Brian, Alessandro. 1. Descrizione di un Copepode parassita del pesce Rombo. Siena, Riv. ital. sc. nat., **26**, 1906, (125-127).

(**Brian, A. 2.** Nouveau copépode parasite. Arch. parasit., Paris, **9**, 1905, (564-567, av. fig.).)

Brožek, A. Variálně statistická zkoumání na *Atyaephyra desmarestii* (Joly) z jezera skadarského. [Statistical variations observed in *Atyaephyra desmarestii* (Joly) from Lake Skadarsky.] Prag, SitzBer. Böhm. Ges. Wiss., **1905**, No. 1, (1-69).

Bruntz, L. 1. La véritable nature des "Frontaldrüsen" des Caprellides. Paris, C.-R. soc. biol., **61**, 1906, (539-541); Réunion biologique de Nancy, **1906**, (57-59).

Bruntz, L. 2. Les globules sanguins des Crustacés Arthrostracés. Leur origine. Paris, C.-R. soc. biol., **60**, 1906, (835-836); Réunion biologique de Nancy, **1906**, (29-30).

Bruntz, L. 3. A propos de la structure histologique de l'organe globuligène des Crustacés Décapodes. Arch. zool., Paris, sér. 4, **5**, 1906, (Notes et revue, lix-lxiv, fig.).

Bruntz, L. 4. Un organe globuligène chez les Stomatopodes. Nancy, Bul. soc. sci., ser. 3, **7**, 1906, (1-3).

Bruntz, L. 5. Un organe globuligène chez les Stomatopodes. Paris, C.-R. soc. biol., **60**, 1906, (428-430); Réunion biologique de Nancy, **1906**, (12-14).

Bruntz, L. 6. Sur l'existence d'un organe globuligène chez les Schizopodes. Paris, C.-R. soc. biol., **60**, 1906, (832-833); Réunion biologique de Nancy, **1906**, (26-27).

Bruntz, L. 7. Sur l'existence de formations lymphoïdes globuligènes chez les Gammarides. Paris, C.-R. Acad. sci., **143**, 1906, (1256, 1257).

(**Bruntz, L. 8.** Etude physiologique sur les Phyllopoètes Branchiopoètes. Phagocytose et excrétion. Arch. zool., Paris, sér. 4, **4**, 1905, (183-198).)

Bryan, W. A. A monograph of Marcus island. An account of its physical features and geology, with descriptions of its fauna and flora. Honolulu, H.I., Occ. Paprs. Bernice Pauahi Bishop Mus., **2**, 1903, (77-139).

Budde-Lund, G. 1. Die Land-Isopoden Ost-Afrikas. Deutsch Ost-Afrika. Berlin, **4**, 1898, (1-10, with 1 pl.).

Budde-Lund, G. 2. Die Landisopoden der deutschen Südpolar-Expedition 1901-1903. Mit Diagnosen verwandter Arten. (Deutsche Südpolar-Expedition 1901-1903, Bd 9, H. 2.) Berlin (G. Reimer), 1906, (69-92, 2 Taf.).

Byrnes, E. F. Two transitional stages in the development of *Cyclops signatus*, var. *coronatus*. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **10**, 1906, (193-196, pls. vii, viii).

Calman, W. T. 1. Notes on some genera of the Crustacean family *Hippolytidae*. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (29-31).

Calman, W. T. 2. The Cumacea of the Puritan Expedition. Mitt. zool. Stat. Neapel, Berlin, **17**, 1906, (411-432, pl. xxvii, xxviii).

Calman, W. T. 3. Zoological results of the third Tanganyika expedition, conducted by Dr. W. A. Cunningham, 1904-1905. Report on the Macrurous *Crustacea*. London, Proc. Zool. Soc., **1906**, (187-206, pls. xi-xiv).

Calman, W. T. 4. Exhibition of a photograph of a lobster with abnormal chelae. London, Proc. Zool. Soc., **1906**, (633).

Cappelli, G. B. Contribuzione allo studio degli Ostracodi fossili dello strato a sabbie grigie della Farnesina presso Roma. Roma, Boll. soc. geol. ital., **24**, 1905, (303-342, pls. ix, x).

Car, L. Das Mikroplankton der Seen des Karstes. Ann. biol. lacustre, Bruxelles, **1**, 1906, (50-56).

Carl, J. Notes sur les Isopodes de la Suisse. Arch. Sci. Phys., Genève, **22**, 1906, (408).

Carlson, A. J. Comparative physiology of the invertebrate heart. Parts 4-8. Amer. J. Physiol. Boston, Mass., **15**, 1906, (127-143); **16**, (47-109).

Carruccio, Antonio. Sovra una gigantesca *Macrocheira kaempferi* De Haan portata dai mari del Giappone. Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (85-95, 1 tav.).

Caullery, Maurice. Sur un Amœbien parasite des embryons de *Pellogaster curvatus* Kossm. Paris, C.-R. soc. biol., **61**, 1906, (266-268, fig.).

Chapman, F. 1. On some *Foraminifera* and *Ostracoda* obtained off Great Barrier Island, New Zealand. Wellington, Trans. and Proc., N. Zeal. Inst., **38**, 1905, (76-112, pl. iii).

Chapman, F. 2. Note on an Ostracodal limestone from Durlston Bay, Dorset. London, Proc. Geol. Ass., **19**, 1906, (283-285, pl. v).

Chatton, Edouard. 1. Sur la biologie, la spécification et la position systématique des *Amœbidium*. Arch. zool.,

Paris, sér. 4, **5**, 1906, (Notes et revue, xvii-xxx, fig.).

Chatton, E. 2. Sur la morphologie et l'évolution de l'*Amorbidium recticola*, nouvelle espèce commensale des Daphnies. Arch. zool., Paris, sér. 4, **5**, 1906, (Notes et revue, xxxiii-xxxviii, fig.).

Chatton, E. 3. Les Blastodinides, ordre nouveau de Dinoflagellés parasites. Paris, C.-R. Acad. sci., **143**, 1906, (981-983, fig.).

Checchia-Rispoli, G. Crostacei dell'Eocene dei dintorni di Monreale in provincia di Palermo. Palermo, Giorn. sc. nat. econ., **25**, 1905, (309-326, pl. i).

Chevreaux, E. 1. Diagnoses d'Amphipodes nouveaux provenant de l'expédition antarctique du "Français." Paris, Bul. soc. zool., **31**, 1906, (37-40, 76-80, 82-89).

Chevreaux, E. 2. Amphipodes. Les lacs des haut plateaux de l'Amérique du Sud par M. le Dr. M. Neveu-Lemaire. Paris, 1906, (147-168).

(**Chevreaux, E. 3.** Campagnes scientifiques de S. A. S. le prince Albert I de Monaco. Description d'un amphipode marin appartenant au genre *Hyalella* Smith. Paris, Bul. soc. zool., **1902**, (223-227).)

(**Chevreaux, E. 4.** Campagnes scientifiques de S. A. S. le prince Albert I de Monaco. Note préliminaire sur les amphipodes de la famille des *Lysianassidae* recueillis par la "Princesse Alice" dans les eaux profondes de l'Atlantique et de la Méditerranée. Paris, Bul. soc. zool., **28**, 1903, (81-97).)

(**Chevreaux, E. 5.** Mission de Créqui Montfort et Sénéchal de la Grange. Note préliminaire sur les amphipodes recueillies par M. le Dr. Neveu-Lemaire dans le lac Titicaca (juillet 1903). Paris, Bul. soc. zool., **29**, 1904, (131-134).)

Chevreaux, E. ride Peyerimhoff.

Chichkoff, G. Copépodes d'eau douce de Bulgarie. Zool. Anz., Leipzig, **31**, 1906, (78-82).

Chilton, C. 1. Note on the occurrence of *Metoponorthus pruinosis* Brandt in New Zealand. Wellington, Trans. and Proc. N. Zeal. Inst., **38**, 1905, (64, 65).

Chilton, C. 2. Description of a species of *Phreatoicus* from the surface

waters of New Zealand. Wellington, Trans. and Proc. N. Zeal. Inst., **38**, 1905, (271-276).

Chilton, C. 3. Report of some *Crustacea* dredged off the coast of New Zealand. Wellington, Trans. and Proc. N. Zeal. Inst., **38**, 1905, (265-269).

Chilton, C. 4. List of *Crustacea* from the Chatham Islands. Wellington, Trans. and Proc. N. Zeal. Inst., **38**, 1905, (269-273).

Chilton, C. 5. Note on some *Crustacea* from the freshwater lakes of New Zealand. London, Proc. Zool. Soc., **1906**, (702-705).

Chilton, C. 6. Note on a New Zealand Amphipod belonging to the genus *Seba*. [Includes a sp. n. by Alfred O. Walker.] Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (569-573).

Clark, W[illiam] B[ullock]. Crustacea. Maryland Geol. Surv., Pliocene and Pleistocene, Baltimore, 1906, (172-176, pls. xli, xlii).

Clarke, J. M. and Ruedemann, R. Guelph fauna in the state of New York. Albany Univ. N.Y., St. Educ. Dept., Mus. Mem., **5**, 1903, (1-195, pls. i-xxi).

[**Cleve, P. T.** The Plankton of the South African seas. I. *Copepoda*. Cape Town, Marin. Invest., **3**, 1905, (177-210, pls. i-vi).]

Collet, P. Note sur un Crustacé des Islettes (*Ilopolaria granulosa*). Reims, Bul. soc. sci. nat., **12**, 1904, (32-33).

Collin, B. Note préliminaire sur un Acinétién nouveau, *Dendrosomides paguri* n. g. n. sp. Arch. zool., Paris, sér. 4, **5**, 1905, (Notes et revue, lxiv-lxvi, fig.).

Cooper, W. A. Notes on a new species of *Gymnoplea* from Richmond, Natal, South Africa. *Adiaptomus natalensis* (gen. and sp. nov.). Ann. Natal Govt. Mus., London, **1**, pt. 1, 1906, (97-103, 1 pl.).

[**Coutière, H. 1.** Note sur quelques *Alpheidae* recueillies par M. G. Senrat à Marutea (îles Gambier). Bul. Muséum, Paris, **11**, 1905, (18-23).]

Coutière, H. 2. Sur une nouvelle espèce d'*Alpheopsis*, *A. haugi*, provenant d'un lac d'eau douce du bassin de l'Ogoné (Voyage de M. Haug, 1906). Bul. Muséum, Paris, **12**, 1906, (376-380).

Coutière, H. 3. Sur quelques larves de Macroures eucyphotes provenant des collections de S. A. le prince de Monaco. Paris, C.-R. Acad. sci., **142**, 1906, (847-849).

Coutière, H. 4. Notes sur la synonymie et le développement de quelques *Hoplophoridae*. Campagnes de la Princesse-Alice, (1904-1905). Bul. Mus., Monaco, No. **70**, 1906, (1-20).

Cushman, Joseph A. 1. Marine Ostracoda of Vineyard Sound and adjacent waters. Boston, Mass., Proc. Soc. Nat. Hist., **32**, 1906, (359-386, pls. xxvii-xxxviii).

Cushman, J. A. 2. Additional records for New England Crustacea. Amer. Nat., Boston, Mass., **40**, 1906, (141, 142).

[**Daday, Jenő. 1.** Turkesztáni édesvízi mikroskopi állatok. [Mikroskopische Süßwassertiere aus Turkestan.] Math. Term. Ért., Budapest, **21**, 1903, (322-357).]

[**Daday, J. 2.** Paraguay mikrofaunájának alaprajza. [Grundzüge der Mikrofauna von Paraguay.] Math. Term. Ért., Budapest, **23**, 1905, (312-355).]

Daday, J. 3. Édesvízi mikroskopi állatok Mongoliából. [Mikroskopische Süßwassertiere aus der Mongolei.] Math. Term. Ért., Budapest, **24**, 1906, (34-77).

Daday, J. 4. Adatok Hátsóindia, Sumatra, Jáva és a Hawaii szigetek Copepoda-faunájának ismeretéhez. [Beiträge zur Kenntniss der Copepoden-Fauna von Hinter-Indien, Sumatra, Java und von den Hawaii-Inseln.] Math. Term. Ért., Budapest, **24**, 1906, (262-282).

Daday, E. von. 5. Untersuchungen über die Copepodenfauna von Hinterindien, Sumatra und Java, nebst einem Beitrag zur Copepodenkenntnis der Hawaii-Inseln. (Reise von Dr. Walter Volz.) Zool. Jahrb., Jena, Abt. f. Syst., **24**, 1906, (175-206, 3 Taf.).

[**Derjugin, K. M.**] Дерюгинъ, К. М. Мурманская биологическая станция. 1899-1905. [Murmansche Biologische Station, 1899-1905.] St. Petersburg, Trav. soc. nat., **37**, sect. Zool. Phys., 1906, (i-vii + 1-227).

Destinez, P. Quatrième note sur la faune du calcaire noir (Via) de Petit-Modave. Liège, Ann. soc. géol. Belgique, **34**, 1906-07, (B 62-B 64).

Doflein, Franz. 1. Mitteilungen über japanische Crustaceen. [1. Das ♂ v. *Thaumastocheles zaleucus*.] Zool. Anz., Leipzig, **30**, 1906, (521-525).

Doflein, F. 2. Fauna und Ozeanographie der japanischen Küste. Verh. D. Zool. Ges., Leipzig, **16**, 1906, (62-72, pl. i).

Doflein, F. 3. Ostasienfahrt. Leipzig und Berlin, 1906, (i-xiii + 1-511).

(**Dollfus, A. 1.** Note préliminaire sur les espèces du genre *Cirolana* recueillies pendant les campagnes de l' "Hirondelle" et de la "Princesse Alice" sous la direction de S. A. S. le prince Albert I de Monaco. Paris, Bul. soc. zool., **28**, 1903, (5-9).)

(**Dollfus, A. 2.** Etude sur les crustacés Isopodes terrestres de l'Europe et du bassin méditerranéen. Feuille jeunes natural., Paris, sér. 4, **35**, 1905, (163).)

Dröschner, Wilh. Ein Beitrag zur Kenntnis des Wachstums des Krebses. Fischereiztg., Neudamm, **9**, 1906, (113-117, 133-137).

Drouin de Bouville, de. Les repeuplements en écrevisses. Nancy, Bul. soc. sci., ser. 3, **7**, 1906, (28-132).

Duboscq, O. vide Léger, L.

Duerden, J. E. On the habits and reactions of crabs bearing Actinians in their claws. London, Proc. Zool. Soc., **1905**, (494-511).

[**Ekman, S.** Cladoceren und Copepoden aus antarktischen und subantarktischen Binnengewässern gesammelt von der Schwedischen Antarktischen Expedition 1901-1903. Wiss. Ergeb. der Schwedischen Südpolar-Expedition 1901-1903, **5**, Lief. 4, 1905, (1-10, pl. i-iii).]

Elles, G. L. and Slater, I. L. The highest Silurian rocks of the Ludlow district. London, Q. J. Geol. Soc., **62**, 1906, (195-227).

Emmel, V. E. 1. The regeneration of two "crusher-claws" following the amputation of the normal asymmetrical chelae of the lobster (*Homarus americanus*). Arch. Entw. Mech., Leipzig, **22**, 1906, (542-552, pl. xv).

Emmel, V. E. 2. Torsion and other transitional phenomena in the regeneration of the cheliped of the lobster (*Homarus americanus*). J. exp. Zool., Baltimore, Md., **3**, 1906, (603-618, 2 pls.).

Entz, G. A levéllábú rákok egy óriása. [Über ein riesenhaftes Exemplar von *Branchipus ferox* M. Edw.] Állatt. Közlem., Budapest, **5**, 1906, (147-148).

[**Esterly, Calvin Olin. 1.** The pelagic Copepoda of the San Diego region. Contributions from the laboratory of the Marine Biological Association of San Diego. Berkeley, Univ. Cal., Pub. Zool., **2**, 1905, (113-233).]

Esterly, C. O. 2. Additions to the copepod fauna of the San Diego region. Contributions from the Laboratory of the Marine Biological Association of San Diego. Berkeley, Univ. Cal. Pub., Zool., **3**, 1906, (53-92, pls. ix-xiv).

Esterly, C. O. 3. Some observations on the nervous system of Copepoda. Berkeley, Univ. Cal. Pub., Zool., **3**, 1906, (1-12, pl.).

Evans, W. 1. *Laemargus muricatus* Kröy. on a sunfish captured in the Firth of Forth. Ann. Scot. Nat. Hist., Edinburgh, 1906, (57).

Evans, W. 2. Some Invertebrata, including *Ixodes borealis*, from St. Kilda. Ann. Scot. Nat. Hist., Edinburgh, 1906, (84).

Evans, W. 3. *Metoponorthus pruinosus* (Brandt) in the Forth district. Ann. Scot. Nat. Hist., Edinburgh, 1906, (187).

[**Faussek, V.**] Фаусекъ, Б. Биологическія изслѣдованія въ Закаспійской Области. [Biologische Untersuchungen in Transkaspien.] St. Peterburg, Zap. Russ. Geogr. Obsč., **27**, 2, 1906, (1 + 1-192 + 1, 4 pl.).

Favre, J. vide Thiebaud, M.

Fleure, H. vide Galloway, E. F.

[**Fordyce, C. 1.** Additional notes on the Cladocera of Nebraska. Lancaster, Pa., Trans. Amer. Microsc. Soc., **25**, 1904, (45-54, pl. vi).]

Fordyce, C. 2. Additional notes on the Cladocera of Nebraska. Science, New York, N.Y., **23**, 1906, (623).

Fritze, [Adolf]. Beiträge zur Biologie und Faunistik von *Branchipus grubei* Dyb. und *Apus productus* Bosc. Hannover, Jahrb. ProvMus., **1905-1906**, 1906, (43-46).

Fulton, S. W. and Grant, F. E. 1. Census of the Victorian Decapod Crustacea. Part 1 (*Brachyura*). Melbourne, Proc. R. Soc. Vict., **19**, 1906, (16-20).

Fulton, S. W. and Grant, F. E. 2. Some little-known Victorian Decapod Crustacea, with descriptions of new species. No. 3. Melbourne, Proc. R. Soc. Vict., **19**, 1906, (5-15, pls. iii-v).

Gadd, P. En ny Parasit-Copepod från Kaspiska hafvet. [A new parasitic Copepod from the Caspian Sea.] Ark. Zool., Stockholm, **3**, No. 15, 1906, (1-9).

Gal, Jules. *Niphargus* et *Cæcospheroma*. Observations physiologiques. Nîmes, Bul. soc. étud. sci. nat., **31**, 1903, [1904], (48-51).

(**Galbert, de.** Repeuplement des cours d'eau. Protection des Poissons et Crustacés. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (755-760).)

Galloway, E. F. and Fleure, H. Notes on the habits of *Galatheidæ*. London, Rep. Brit. Ass., **1906**, (608-610).

Gamble, F. W. and Keeble, F. W. Colour-physiology of the higher Crustacea. London, Rep. Brit. Ass., **1906**, (325, 326).

Gammon, B. O. Cladocera of Des Moines and vicinity. Des Moines, Proc. Iowa Acad. Sci., **13**, 1906, (267-271).

Giard, A. 1. Sur la limite septentrionale d'habitat de *Gyge branchialis* Cornalia et Panceri. Feuille jeunes natural., Paris, sér. 4, **36**, 1905, [1906] (12).

Giard, A. 2. Sur le *Grapsicepon typus* Duvernoy parasite de *Grapsus strigosus* Herbst. Paris, C.-R. soc. biol., **61**, 1906, (704-706).

Gilson, G. Recherches sur les deux *Pseudocuma* de la Mer Flamande, *P. longicornis* Spence Bate et *P. similis* G. O. Sars. Bruxelles, Mém. soc. ent. Belgique, **12**, 1906, (77-96).

Goggio, Empedocle. **1.** Intorno all' identità del *Lernanthropus lichiae* Goggio col il *L. trachuri* Brian e del *L. thompsoni* Brian con il *L. micropterygis* Richiardi. Mon. zool. ital., Firenze, **17**, 1906, (352-353).

Goggio, E. **2.** Intorno al genere *Lernanthropus* De Blainv. (*Epachthes* v. Nordm.) con descrizione di tre specie non descritte. Pisa, Atti Soc. tosc. sc. nat., Mem., **22**, 1906, (134-149, pl. ii).

Goto, Seitarō. A few cases of meristic variation in the common toad and an isopod. Annot. Zool. Jap., Tokyo, **5**, 1906, (267-281, with woodcuts).

Gough, L. H. Plankton collected at Irish light stations in 1904. Fish. Ireland Sci. Invest., **6**, 1901, [1906].

(**Grant**, F. E. Crustacea dredged off Port Jackson in deep water. Sydney, N.S.W., Proc. Linn. Soc., **30**, 1905, (312-321).)

Grant, F[rederick] E[rnest] and **McCulloch**, A. R. On a collection of Crustacea from the Port Curtis District, Queensland. Sydney, N.S.W., Proc. Linn. Soc., **31**, 1906, (2-53, 4 pls.).

Grant, F. E. *vide* Fulton, S. W.

Gravier, C. Observations biologiques sur les Crabes terrestres de l'île San Thomé. Bul. Muséum, Paris, **12**, 1906, (498, 499).

Gruvel, A. **1.** Sur une forme nouvelle de Cirrhipède operculé (*Pypgopsis amandalei* n. g., n. sp.). Paris, C.-R. Acad. sci., **142**, 1906, (1558, 1559).

Gruvel, A. **2.** Mission des Pêcheries de la côte occidentale d'Afrique. IV. Cirrhipèdes. Bordeaux, Actes soc. linn., **61**, 1906, (181-184).

Gruvel, A. **3.** Cirrhipèdes du Discovery. Bul. Muséum, Paris, **12**, 1906, (270-273).

(**Gruvel**, A. **4.** Revision des cirrhipèdes appartenant à la collection du Muséum d'histoire naturelle. Nouv. Arch. Muséum, Paris, sér. 4, **6**, 1904, (51-224, av. pl.).)

(**Gruvel**, A. **5.** Monographie des Cirrhipèdes ou Thécostraces. Paris (Masson), 1905, (xiii + 476, av. fig.).)

Guieysse, A. **1.** Structure du tube digestif chez les Crustacés Copépodes.

C.-R. Ass. anat., 8^e session, (Bordeaux, 1906), Nancy, **1906**, (33-40, fig.).

Guieysse, A. **2.** Dégénérescence physiologique des cellules de l'hétopancreas des Crustacés décapodes. Paris, Bul. soc. philom., sér. 9, **8**, 1906, (97-102).

Guieysse, A. **3.** Structure du système digestif de *Idotea hectica* Latr. Paris, Bul. soc. philom., sér. 9, **8**, 1906, (103-109).

Guieysse, A. **4.** Étude des corps blancs ou poumons chez *Helleria brevicornis*. Paris, Bul. soc. philom., sér. 9, **8**, 1906, (203-209).

Gurney, R. **1.** On two new *Entomostraca* from Ceylon. Spolia Zeylan., **4**, 1906, (126-134, pls. i, ii).

Gurney, R. **2.** On some freshwater *Entomostraca* in the collection of the Indian Museum, Calcutta. Calcutta, J. As. Soc. Beng., **2**, 1906, (273-281, pls. iv, v).

Hadley, Philip B. **1.** The relation of optical stimuli to rheotaxis in the American lobster, *Homarus americanus*. Amer. J. Physiol., Boston, Mass., **17**, 1906, (326-343).

Hadley, P. B. **2.** Regarding the rate of growth of the American lobster. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **10**, 1906, (233-241).

Harbort, E. Die Fauna der Schaumburg-Lippe'schen Kreidemulde. Berlin, Abh. geol. Landesanst., **45**, 1905, (1-112, pls. i-xii).

Henderson, J. R. On a new species of coral-infesting crab taken by the R.I.M.S. "Investigator" at the Andaman Islands. Ann. Mag. Nat. Hist., London, Ser. 7, **18**, 1906, (211-219, pl. viii).

Herdman, W. A. Port Erin Biological Station. Guide to the aquarium: being a short account of some of the common marine animals of the neighbourhood. Liverpool, Proc. Trans. Biol. Soc., **20**, 1906, (67-144).

Hérouard, E. **1.** La circulation chez les Daphnies. Paris, Mém. soc. zool., **18**, 1906, (211-232, pls. vi, vii).

Hérouard, E. **2.** Sur un nouveau copépode parasite d'*Amphiuva squamata*. Paris, C.-R. Acad. sci., **142**, 1906, (1287-1289).

Herrick, Francis Hobart. 1. Effective protection for the lobster fishery. Science, New York, N.Y., **23**, 1906, (650-655).

(**Herrick**, F. H. 2. Torsion of the crustacean limb. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **9**, 1905, (130-137, with text fig.).)

Hilgendorf, F. Die Land- und Süßwasser-Dekapoden Ostafrikas. Deutsch Ost-Afrika, **4**, 1898, Berlin, (37, 1 pl.).

Hoek, P. P. C. 1. On the polyandry of *Scalpellum stearnsi*. Amsterdam, Proc. Sci. K. Akad. Wet., **8**, 1906, (659-662).

Hoek, P. P. C. 2. Over polyandrie bij *Scalpellum stearnsi*. [On the polyandry of *Scalpellum stearnsi*.] Amsterdam, Versl. Wis. Nat. Afd. K. Akad. Wet., **14**, 1906, (669-671).

Holt, E. W. L. and **Tattersall**, W. M. 1. Preliminary notice of the *Schizopoda* collected by H.M.S. "Discovery" in the Antarctic region. Ann. Mag. Nat. Hist., London, Ser. 7, **17**, 1906, (1-11).

Holt, E. W. L. and **Tattersall**, W. M. 2. Schizopodous Crustacea from the North-East Atlantic slope. Fish. Ireland Sci. Invest., **5**, 1904, [1906], (1-50, pls. i-v).

Horst, R. On a large *Penella*-species from the Moluccas. Leiden, Notes Mus. Jentink, **26**, 1906, (229-234).

Illig, G. 1. Bericht über die neuen Schizopodengattungen und -arten der Deutschen Tiefsee-Expedition 1898-1899. [1. Mysideen.] Zool. Anz., Leipzig, **30**, 1906, (194-211).

Illig, G. 2. Ein weiterer Bericht über die Schizopoden der Deutschen Tiefsee-Expedition 1898-1899. [2. Gnathophausien.] Zool. Anz., Leipzig, **30**, 1906, (227-230, 319-322).

Issakowitsch, Alexander. Geschlechtsbestimmende Ursachen bei den Daphniden. Arch. mikr. Anat., Bonn, **69**, 1906, (223-244).

Jonker, H. G. Bijdragen tot de kennis der Sedimentaire Zwerfsteenen in Nederland. 1. de Hondsrug in de Provincie Groningen. 2. Boven-silurische Zwerfsteenen. Derde mededeeling; Zwerfsteenen van den onderdom der Oostbaltische Zone K₁. [Contributions

to a knowledge of the Sedimentary erratic blocks in the Netherlands. 1. The Hondsrug in the Province of Groningen. 2. Upper Silurian erratic blocks. 3. Erratic blocks of the age of the East Baltic Zone K₁.] Amsterdam, Verh. K. Akad. Wet., **2**, part 12, No. 3, 1906, (1-33, 1 pl.).

Joubin, L. Note sur un gisement de *Pollicipes* et un autre de *Spirorbis* sur les côtes de la presqu'île de Quiberon. Bul. Muséum, Paris, **12**, 1906, (533-535).

Juday, Chancey. *Ostracoda* of the San Diego region. 1. *Halocypridae*. Contributions from the Laboratory of the Marine Biological Association of San Diego. Berkeley, Univ. Cal. Pub. Zool., **3**, 1906, (13-38, pls. iii-vii).

[**Kališevskij**, M[ichael].] Калишевский, Мих. Материалы для Карцинологической фауны Одесского залива. [Matériaux pour la faune carcinologique du golfe d'Odessa.] Odessa, Mém. Soc. nat., **29**, 1906, (1-34, pls. i, ii).

Keeble, F. W. *vide* Gamble, F. W.

Keilhack, Ludwig. 1. Cladoceren aus den Dauphiné-Alpen. Zool. Anz., Leipzig, **29**, 1906, (694-701).

Keilhack, L. 2. Zur Biologie des *Polyphemus pediculus*. Zool. Anz., Leipzig, **30**, 1906, (911-912).

Kellogg, V. L. A new *Artemia* and its life conditions. Science, New York, N.Y., **24**, 1906, (594-596).

Kemp, S. W. 1. Preliminary descriptions of two new species of *Carida* from the West Coast of Ireland. Ann. Mag. Nat. Hist., London, Ser. 7, **17**, 1906, (297-300).

Kemp, S. W. 2. On the occurrence of the genus *Acantheephyra* in deep water off the West coast of Ireland. Fish. Ireland Sci. Invest., **1**, 1905, [1906], (1-28, 2 pls.).

Kemp, S. W. 3. *Macrura* from the west coast of Ireland. Fish. Ireland Sci. Invest., **1**, 1905, [1906], (7).

Kershaw, J. A. Excursion to Wilson's promontory—General Zoology (except *Mollusca*). Vict. Nat., Melbourne, **22**, 1906, (197-207).

Klunzinger, C. B. 1. Die Spitz- und Spitzmundkrabben (*Oxyrhyncha* und *Oxystomata*) des Roten Meeres.

Stuttgart (F. Enke), 1906, (vii + 91, 2 Taf.).

Klunzinger, C. B. 2. Ueber einige Ergebnisse aus meiner soeben erschienenen Arbeit über die Spitz- und Spitzmundkrabben des Roten Meeres. Verh. D. zool. Ges., Leipzig, **16**, 1906, (229-232).

Knipovič, N. Neue Fundorte von Meeres-Mollusken und Balaniden in den Ablagerungen der borealen Transgression. St. Petersburg, Verh. Russ. mineral. Ges., **41**, 1904, (187-195).

Köhler, W. Vorkommen von *Apus cancriformis* bei Magdeburg. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (294).

[**Koeppen, N.**] Кепенъ, Н. О сперматогенези у *Astacus fluviatilis* Fabr. [De la spermatogénèse chez l'*Astacus fluviatilis* Fabr.] Kiev, Zap. Obšč. Jest., **20**, 1906, (231-305, pls. i-ix).

[**Lagerberg, T.** *Anomoura* und *Brachyura* der Schwedischen Südpolar-expedition. Wissenschaftliche Ergebnisse der Schwedischen Südpolar-Expedition 1901-1903, unter Leitung von Dr. Otto Nordenskjöld, **5**, Lief. 7, 1905, (1-39, Taf. i).]

Lanchester, W. F. Report on the *Crustacea*. Fasciculi Malayenses. Zoology, Part 3, 1906, (127-134, 1 pl.).

Largaiolli, V[ittorio]. 1. Ueber das Vorkommen von Doppelaugen bei einer limnetischen Daphnie. Zool. Anz., Leipzig, **29**, 1906, (701).

Largaiolli, V. 2. *Diaphanosoma brachyurum* Liév. var. *tridentinum* mihl. Arch. Hydrobiol., Stuttgart, **1**, 1906, (428-432).

Largaiolli, V. 3. Ricerche bioliminologiche sui Laghi Trentini. Padova, Atti Acc. ven.-trent., **3**, 1906, (33-49).

Laroche, R. Die Copepoden der Umgebung von Bern. Diss. Bern. Basel, 1906, (1-71, pls. i-iv).

Laurie, R. D. Report on the *Brachyura* collected by Professor Herdman at Ceylon, in 1902. London, Rep. Pearl Oyster Fish., **5**, 1906, (349-432, 2 pls.).

Lauterborn, R. Beiträge zur Fauna und Flora des Oberrheins und seiner

Umgebung. II. Faunistische und biologische Notizen. Dürkheim, Mitt. Pollichia, **60**, 1904, (63-130).

Léger, L[ouis]. 1. A propos des maladies destructives des Crustacés. Paris, Bul. Ass. franç. avanc. sci., **1905**, (341-342).

Léger, L. 2. Argules et salmoniculture. Ann. Univ. Grenoble, Paris, **18**, 1906, (49-55).

Léger, L. et Duboscq, O. 3. L'évolution d'une *Aggregata* de la Seiche chez le *Portunus depurator* Leach. Paris, C.-R. soc. biol., **60**, 1906, (1001-1003).

Léger, L. et Duboscq, O. 4. Sur l'évolution des Grégarines gymnosporées des Crustacés. Paris, C.-R. Acad. sci., **142**, 1906, (1225-1227).

Levander, K. M. 1. Über das Winterplankton in zwei Binnenseen Süd-Finlands. Helsingfors, Acta Soc. Fauna et Fl. Fenn., **27**, No. 1, 1905-1906, (1-14).

Levander, K. M. 2. Beiträge zur Kenntniss des Valkea-Mustajärvi-Sees der Fischereiversuchsstation Evois. Helsingfors, Acta Soc. Fauna et Fl. Fenn., **28**, No. 1, 1906, (1-28).

Lienenklaus, E. Die Ostrakoden der Gegend zwischen Braunschweig und Gilhorn. Bonn, Verh. nathist. Ver., **62**, (1905), 1906, (167-172).

Lindahl, Josua. A list of *Isopoda* from the State of Ohio, preserved in the museum of the Cincinnati society of natural history. Ohio Nat., Columbus, Ohio, **6**, 1906, (488).

Loeb, Jacques. 1. The transformation of negatively heliotropic animals (*Gammarus pulex*) into positively heliotropic animals by chemical means. [Abstract.] New York, N.Y., Proc. Soc. Exp. Biol. Med., **2**, 1905, (21-23).

(**Loeb, J. 2.** The control of heliotropic reaction in fresh-water Crustaceans by chemicals, especially by CO₂. Berkeley, Univ. Cal., Pub. Physiol., **2**, 1904, (1-3).)

Lörenthey, J. Palaeontologiai tanulmányok a Harmadkorú Rákok Köréből. [Palaeontological studies. Tertiary Crustacea.] Math. Term. Ért., Budapest, **22**, 1904, (160-167).

Lomas, J. Note on the occurrence and habitat of *Estheria* in the Trias of Britain. London, Rep. Brit. Ass., **1905**, (166-168).

Łomnicki, A. M. Mszywiół: Rozpiórka wielokształtna (*Plumatella polymorpha* Kraepelin var. *δ fungosa* Kraep.) na raku stawowym (*Astacus fluviatilis* F. var. *leptodactylus* Eschr.) [*Plumatella polymorpha* Kraepelin on *Astacus fluviatilis* F. var. *leptodactylus* Eschr.] Kosmos, Lwów, **31**, 1906, (249-256).

Lyon, E. P. Note on the heliotropism of *Palaemonetes* larvae. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **12**, 1906, (23-25).

McClendon, J. F. On the development of parasitic Copepods. Part I. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **12**, 1906, (37-52, pl. i).

McCulloch, Allan Rivestone. Crustacea new to Australia. Sydney, N.S.W., Rec. Austr. Mus., **6**, 1906, (231).

McCulloch, A. R. *vide* Grant, F. E.

McIntosh, W. C. Marine Annelids (*Polychaeta*) of South Africa. Part II. Cape Town, Mar. Invest., **3**, 1904, (59-92, pls. vi-ix).

MacNair, P. The geology of the Rouken Glen and its neighbourhood. Glasgow, Trans. Geol. Soc., **12**, 1906, (362-397, pls. ix, x).

Malaquin, A. Sur un Copépode parasite (*Nereicolidae*). Paris, Bul. Ass. franç. avanc. sci., **1905**, (328).

Man, J. G. de. **1.** On species of Crustacea of the genera *Ptychognathus* Stimps. and *Palaemon* Fabr. from Christmas Island. London, Proc. Zool. Soc., **1905**, (537-550, pls. xvii, xviii).

Man, J. G. de. **2.** Diagnoses of five new species of Decapod Crustacea and of the hitherto unknown male of *Spirontocaris rectirostris* (Stimps.) from the Inland Sea of Japan, as also of a new species of *Palaemon* from Darjeeling, Bengal. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (400-406).

Man, J. G. de. **3.** Synonymical remarks about *Palaemon neglectus* nov. nom. and *Palaemon reunionnensis* Hoffm. Leiden, Notes Mus. Jentink, **26**, 1906, (201-206, 1 pl.).

Man, J. G. de. **4.** Eine neue Süßwasserkrabbe aus China, *Potamon*

(*Parathelphusa*) *endymion* n. sp. Zool. Anz., Leipzig, **30**, 1906, (35-36).

Man, J. G. de. **5.** Ueber einige Arten der Gattung *Potamon* Sav. von den Philippinen und von Kap York (Australien). Zool. Jahrb, Jena, Abt. f. Syst., **23**, 1906, (743-760).

(**Man, J. G. de.** **6.** Crustacés décapodes terrestres et d'eau douce de l'Indo-Chine. Mission Pavie, **3**, 1904, (311-331, pl.).)

[**Marsh, C. D.** A biological reconnaissance of some elevated lakes in the Sierras and the Rockies.—Report on the *Copepoda*. Lancaster, Pa., Trans. Amer. Microsc. Soc., **25**, 1904, (146-149, pls. xxx and xxxi).]

Masi, L. **1.** Materiali per una fauna dell' Arcipelago Toscano. V. Isola del Giglio. Sulla presenza della *Meganyctiphanes norvegica* (M. Sars) nelle acque del Giglio. Genova, Ann. Museo Civ. st. nat., **42**, 1905-6, (149-156).

Masi, L. **2.** Sulla presenza della *Podopsis slabberi* v. Ben. nello Stagno di Maccarese. Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (11-20).

Masi, L. **3.** Contributo alla sistematica delle *Ilyocyprinae*. Roma, Boll. Soc. zool. ital. Ser. 2, **6**, 1906, (133-146, 249-268).

[**Méchin, A.** Contributions à l'étude du genre *Pseudoglyphæa* (*Glyphæidae fossiles*) du jurassique de Lorraine. Nancy, Bul. soc. sci., ser. 3, **6**, 1905, (26-31, pl. i.).]

Meek, A. **1.** Note on salt water pond at Amble. Northumberland Sea Fisheries Comm. sci. Invest., 1905, (106, 107).

Meek, A. **2.** The crab and lobster fisheries of Northumberland. Northumberland Sea Fish. Comm., Rep. Sci. Invest., 1905, (87-99).

Mercier, L. Sur une microsporidie du Talitre. Paris, C.-R. soc. biol., **61**, 1906, (90-91).

Mingaud, Galien. Note sur l'acclimatation fortuite de l'écrevisse dans les eaux de la Fontaine. Nîmes, Bul. soc. étud. sci. nat., **32**, 1905, (97-100).

Mrázek, A. Die Copepoden Ost-Afrikas. Deutsch Ost-Afrika, **4**, 1898, Berlin, (11, Taf. i-iii).

Müller, G. W. 1. Ostracoden aus Java gesammelt von Prof. K. Kraepelin. Hamburg, Mitt. Naturhist. Mus., **23**, Beiheft 2, 1906, (139-142).

Müller, G. W. 2. Résultats du Voyage du S.Y. Belgica en 1897-1898-1899 sous le commandement de A. de Gerlache de Gomery. Zoologie, Ostracoden. Anvers, 1906, (8, 1 pl.).

Müller, G. W. 3. *Ostracoda*. (Wissenschaft. Ergebnisse d. D. Tiefsee-Expedition, Bd 8, Lfg 2.) Jena (G. Fischer), 1906, (27-154, 31 Taf.)

Müller, G. W. 4. Die Ostracoden der Siboga-Expedition. Uitkomsten . . . H. M. Siboga . . . uitgegeven . . . Dr. Max Weber, Livr., 30, Monogr. **30**, Leiden, 1906, (40, 9 pls.).

Newton, E. T. Note on shells from the Drift of Macclesfield, &c. Mem. Geol. Surv. Eng. London, **110**, 1906, Appendix 3, (124-126).

Nichols, M. L. 1. Chromosome relations in the spermatocytes of *Oniscus*. Science, New York, N.Y., **24**, 1906, (293).

Nichols, M. L. 2. Chromosome relations in the spermatocytes of *Oniscus*. Wood's Holl, Mass., Mar. Biol. Lab. Bull. **12**, 1906, (26-30).

Ninni, E. Albinismo parziale di due *Carcinus maenas* e di un *Crangon vulgaris*. Boll. Naturalista, Siena, **26**, 1906, (76, 77).

Nobili, Giuseppe. 1. Mission J. Bonnier et Ch. Pérez (Golfe Persique 1901). Crustacés Décapodes et Stomatopodes. Bul. sci. France Belgique, Paris, **40**, 1906, (13-159, pls. ii-vii).

Nobili, G. 2. Faune carcinologique de la Mer Rouge. Décapodes et Stomatopodes. Ann. Sci. nat. (zool.), Paris, **4**, 1906, (1-347, pls. i-xi).

Nobili, G. 3. Diagnoses préliminaires de Crustacés, Décapodes et Isopodes nouveaux recueillis par M. le Dr. G. Seurat aux îles Touamotou. Bul. Muséum, Paris, **12**, 1906, (256-270).

Nobili, G. 4. Ricerche sui Crostacei della Polinesia.—Decapodi, Stomatopodi, Isopodi e Anisopodi. (Sunto.) Torino, Atti Acc. sc., **41**, 1906, (914, 915).

Nobili, G. 5. Nuovi Bopiridi. Torino, Atti Acc. sc., **41**, 1906, (1098-1113, 1 pl.).

Nobili, G. 6. Spedizione al Ruwenzori di S. A. R. Luigi Amedeo di Savoia Duca degli Abruzzi. IX Crostacei. Torino, Boll. Musei zool. anat., **21**, No. 544, 1906, (1, 2).

Nobili, G. 7. Una nuova *Telfusa* di Madagascar (*Potamon ankaraharæ*). Torino, Boll. Musei zool. anat., **21**, No. 532, 1906, (1-4).

Nobili, G. 8. Tre nuovi Sferomidi eritrei del Museo Zool. dell'Univ. di Napoli. Napoli, Ann. Mus. zool., N. Ser., **2**, No. 16, 1906, (1-7, 1 pl.).

Nobili, G. 9. Decapodi della Guinea Spagnuola. Madrid, Mem. Soc. esp. Hist. nat., **1**, 1906, (297-321, pl. viii).

Norman, A. M. 1. Museum Normanianum or a catalogue of the Invertebrata of the Arctic and North Atlantic Temperate Ocean and Palearctic region, which are contained in the collection of the Rev. Canon A. M. Norman. III. Crustacea. 2nd Edition. Durham, 1905, (vi + 47).

Norman, A. M. 2. A new *Heterotanaïs* and a new *Eurydice*, genera of Isopoda. Ann. Mag. Nat. Hist., London, Ser. 7, **17**, 1906, (167-171, pls. v, vi).

Norman, A. M. and Scott, T. The Crustacea of Devon and Cornwall. London, 1906, (i-xv + 1-232, pls. i-xxiv).

Nowikoff, Michael. Einige Bemerkungen über Medianauge und die Frontalorgane von *Artemia salina*. Zs. wiss. Zool., Leipzig, **81**, 1906, (691-698, 1 Taf.).

Oberg, Max. 1. Die Metamorphose der Plankton-Copepoden der Kieler Bucht. Wiss. Meeresunters., Kiel, Abt. Kiel, N.F., **9**, 1906, (37-103, 7 Taf.).

Oberg, M. 2. Neue Resultate über Plankton-Copepoden. Kiel, Schr. natw. Ver., **13**, 1906, (247-253).

Ortmann, Arnold Edward. 1. Schizopod crustaceans in the U. S. National museum. The families *Lophogastridae* and *Eucopeiidae*. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **31**, 1906, (23-54, pls. i, ii).

- Ortmann, A. E. 2.** The crawfishes of the State of Pennsylvania. Pittsburg, Pa., Mem. Carnegie Mus., **2**, 1906, (343-524, pls. A, B, xxxix-xliii).
- Ortmann, A. E. 3.** A case of isolation without barriers. Science, New York, N.Y., **23**, 1906, (504-506).
- Ortmann, A. E. 4.** Mexican, Central American and Cuban *Cambari*. Washington, D.C., Proc. Acad. Sci., **8**, 1906, (1-24).
- (Ortmann, A. E. 5.** The crawfishes of western Pennsylvania. Pittsburgh, Pa., Ann. Carnegie Mus., **3**, 1905, (387-406).)
- Ost, Josef. 1.** Ueber die Regeneration der Antenne bei *Oniscus murarius*. Zool. Anz., Leipzig, **29**, 1906, (687-694).
- Ost, J. 2.** Ein weiterer Beitrag zur Regeneration der Antennen bei *Oniscus murarius*. Zool. Anz., Leipzig, **30**, 1906, (130-131).
- Ost, J. 3.** Zur Kenntniss der Regeneration der Extremitäten bei den Arthropoden. Arch. Entw.Mech., Leipzig, **22**, 1906, (289-324, Taf. x-xii).
- Pack-Beresford, D. R.** Woodlice in Co. Carlow. Irish Nat., Dublin, **15**, 1906, (142).
- Patterson, A. H. 1.** Some Crustacean gossip from Great Yarmouth. Zoologist, London, **10**, 1906, (331-334).
- Patterson, A. H. 2.** Rare species at Yarmouth. Zoologist, London, **10**, 1906, (436).
- Patterson, A. H. 3.** Natural History Notes from Yarmouth. Norwich, Trans. Nat. Soc., **8**, 1906, (315-322, 1 pl.).
- Paulsen, O.** Studies on the biology of *Calanus finmarchicus* in the waters round Iceland. Kjöbenhavn, Meddelelser fra Kommissionen for Havundersøgelser, (Ser. Plankton), **1**, No. 4, 1906, (1-21, 3 pls.).
- Peach, B. N.** The higher Crustacea of the Scottish Carboniferous rocks. [Abstract.] Edinburgh, Proc. R. Physic. Soc., **16**, 1906, (230).
- [Pearse, A. S. 1.** Contributions to the Copepod fauna of Nebraska and other states. Lancaster, Pa., Trans. Amer. Microsc. Soc., **26**, 1905, (145-160, pls. xiii-xvii).]
- Pearse, A. S. 2.** Fresh-water Copepoda of Massachusetts. Amer. Nat., Boston, Mass., **40**, 1906, (241-251).
- Pearson, J.** A list of the Marine Copepoda of Ireland. Part 2. Pelagic species. Fish. Ireland Sci. Invest., **6**, 1905, [1906], (1-37).
- [Pérez, C. 1.** Sur une microsporidie nouvelle parasite des crabes du Bassin d'Arcachon. Bordeaux, Proc. Verb. soc. sci. phys. nat. **1904**, [1903-1904], (105-108).]
- Pérez, C. 2.** Sur une nouvelle Glugéidée parasite du *Carcinus moenas*. Bordeaux, Proc. Verb. soc. sci. phys. nat., **1905**, [1904-1905], (16-18).
- Pérez, C. 3.** Sur une *Glugea* nouvelle parasite de *Balanus amaryllis*. Bordeaux, Proc. Verb. soc. sci. phys. nat., **1905**, [1904-1905], (28-29).
- Pérez, G. 4.** Microsporidies parasites des Crabes d'Arcachon. Arcachon, Trav. Soc. sci. station zool., **8**, 1905, [1906], (15-36).
- Pérez, C. 5.** Sur un cas d'envahissement de l'ovaire par *Theclohania macnadis*. Paris, C.-R. soc. biol., **60**, 1906, (1091-1092).
- Pérez, C. 6.** Sur quelques microsporidies parasites des Crustacés. Paris, Bull. ass. franç. avanc. sci., **1905**, (329-330).
- Pérez, C. 7.** Sur l'*Hersiliodes pel-seneri* Cann. Bordeaux, Actes soc. linn., sér. 6, **10**, **60**, 1905, (Proc.-verb., xxxi-xxxiii).
- Pérez, C. 8.** Sur un Crustacé décapode, *Lyasmata seticaudata* Risso, nouveau pour la faune de l'océan Atlantique. Bordeaux, Actes soc. linn., sér. 6, **10**, **60**, 1905, (Proc.-verb., xli-xlii).
- Peyerimhoff, P. de.** Recherches sur la faune cavernicole des Basses-Alpes. Paris, Ann. soc. ent., **75**, 1906, (203-222) [contains a description by E. Chevreux of a new species of Amphipod].
- Pierantoni, U.** *Cirrodrilus cirratus* n.g. n. sp. parassita dell' *Astacus japonicus*. Napoli, Boll. soc. nat., **19**, 1906, (48-51, tav. i.).
- Pike, F. H.** The degenerate eyes in the Cuban cave-shrimp, *Palaemonetes cigenmani* Hay. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **11**, 1906, (267-276).

Poche, Franz. Was ist „*Lernanthropus tetradactylus*“ B.-S.? Zool. Anz., Leipzig, **29**, 1906, (671-672).

Pocock, T. I. The geology of the country around Macclesfield, Congleton, Crewe, and Middlewich. Mem. Geol. Surv. Eng., London, **110**, 1906.

Potts, F. A. The modification of the sexual characters of the hermit crab caused by the parasite *Peltogaster* ("castration parasite" of Giard). Q. J. Microsc. Sci., London, **50**, 1906, (599-621, pls. xxxiii, xxxiv).

Quidor, A. 1. Sur les Copépodes recueillis par la mission Jean Charcot dans les mers antarctiques. Bul. Muséum, Paris, **1906**, (27-32).

Quidor, A. 2. Sur les Copépodes recueillis par la mission Charcot et communiqués par M. E.-L. Bouvier. Paris, C.-R. Acad. sci., **142**, 1906, (54-56).

Quidor, A. 3. Sur le *Leposphilus labrei* Hesse et sur la famille des *Philichthyidae*. Paris, C.-R. Acad. sci., **142**, 1906, (230-232).

Quidor, A. 4. Sur le mâle et l'appareil suceur de *Nicothoa astaci*. Paris, C.-R. Acad. sci., **142**, 1906, (465-468).

Quidor, A. 5. Sur *Mesoglicola delagei* (n. g. n. sp.), parasite de *Corynactis viridis*. Paris, C.-R. Acad. sci., **143**, 1906, (613-615).

Ramsch, A. Über die weiblichen Geschlechtsorgane von *Cypridina mediterranea*, eines in Mittelmeer vorkommenden Ostrakoden (Muschelkrebse). Verh. Ges. D. Natf. Leipzig, **77**, Tl. 2, 1906, (204).

Rathbun, Mary J. 1. The *Brachyura* and *Maerura* of the Hawaiian islands. Washington, D.C., Bull. U.S. Com. Fish. **23**, 1903, [1906], (827-930, pls. i-xxiv, figg. 1-79).

[**Rathbun, M. J. 2.** Fauna of New England. 5. List of the *Crustacea*. Boston, Mass., Paprs. Soc. Nat. Hist., **7**, 1905, (1-117).]

Rathbun, M. J. 3. Description of a new crab from Dominica, West Indies. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (91, 92).

Rathbun, M. J. 4. Descriptions of three new mangrove crabs from Costa Rica. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (99-100).

(N-9720 l)

Rathbun, M. J. 5. A new *Scyllarides* from Brazil. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (113).

Rathbun, M. J. 6. Les crabes d'eau douce (*Potamonidae*). Nouv. Arch. Muséum, Paris, ser. 4, **6**, 1904, (225-312, pls. ix-xviii); **7**, 1905, (159-321, pls. xiii-xxii); **8**, 1906, (33-122). (The first part of this memoir was noticed in Zool. Rec. 1905, but the new species were not recorded.)

Rathbun, M. J. 7. Catalogue des Potamonidés des collections du Muséum d'histoire naturelle de Paris, d'après les révisions et déterminations de Mlle. Mary Rathbun. Bul. Muséum, Paris, **1906**, (369-376, 500-505).

Reibisch, J[ohannes]. Faunistisch-biologische Untersuchungen über Amphipoden der Nordsee. Tl. 2. Wiss. Meeresunters., Kiel, Abt. Kiel, N.F., **9**, 1906, (185-237, Taf. viii-ix).

Retzius, Gustaf. Zur Kenntnis des Nervensystems der Daphniden. [In] Retzius, Biolog. Untersuchungen, N.F., XIII, Jena, 1906, (107-112, 1 Taf.).

Richardson, Harriet. 1. Description of a new genus of Isopods, typical of a peculiar family. Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**, 1905, (103-106, pl. i).

[**Richardson, H. 2.** Description of a new species of *Lironeca* from the coast of Panama. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **29**, 1905, (445-446).]

Richardson, H. 3. Descriptions of new Isopod crustaceans of the family *Sphaeromidae*. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **31**, 1906, (1-22).

Richardson, H. 4. Sur les Isopodes de l'expédition française antarctique. Bul. Muséum, Paris, **1906**, (187-188); Paris, C.-R. Acad. sci., **142**, 1906, (849-851).

Richters, Ferd. Gibt es ein Tier, das ein Werkzeug benutzt? Zool. Beob., Frankfurt a. M., **47**, 1906, (225-228).

Riggio, G. 1. Contributo alla Carcinologia del Mediterraneo. I. Nota sopra alquanti Crostacei del Mare di Messina. Naturalista sicil., Palermo, **17**, 1904-1905, (93-96, 117-120, 134-

140, 179-186, 208-216, 237-242, 254-263, 274-287, tav. iii-v).

Riggio, G. 2. Rinvenimento di Macruri nuovi pel mare del compartimento marittimo di Palermo e pel Mediterraneo. *Naturalista sicil.*, Palermo, **18**, 1906, (97-103, 151-160, 169-178).

Roaf, H. E. A contribution to the study of the digestive gland in *Mollusca* and Decapod *Crustacea*. *J. Bio-chem.*, Liverpool, **1**, 1906, (390).

Robertson, T. B. Note on the influence of temperature upon the rate of the heart-beat in a crustacean (*Ceriodaphnia*). Wood's Holl, Mass., Mar. Biol. Lab. Bull., **10**, 1906, (242-248).

Robinson, M. On the development of *Nebalia*. *Q. J. Microsc. Sci.*, London, **50**, 1906, (383-433, pls. xvi-xxi).

Ross, L. S. Food of subterranean *Crustacea*. Des Moines, Proc. Iowa Acad. Sci., **13**, 1906, (273-276).

Rossi, Carmelita. Sulla convivenza di due isopodi del Mediterraneo. *Zool. Anz.*, Leipzig, **30**, 1906, (107-109).

Roubal, J. Prodromus myrmecophilů českých. [Prodromus of the Bohemian myrmecophila.] Prag, Sitzber. Böhm. Ges. Wiss., **1905**, No. 15, (1-44).

Ruedemann, R. *vide* Clarke, J. M.

[**Samter, M[ax]. 1.** Die geographische Verbreitung von *Mysis relicta*, *Pallasiella quadrispinosa*, *Pontoporeia affinis* in Deutschland als Erklärungsversuch ihrer Herkunft. Berlin, Abh. Ak. Wiss., **1905**, Abh. V, (1-34, 6 Karten). [Referat in Arch. hydrobiol., Stuttgart, **1**, Tl. 3, (402-404).]

Samter, M. and Weltner, Wilhelm. 2. Fang und Konservierung der relikten Krebse. (Beiträge zur Fauna des Müritzer Sees in Pommern. 5. Mitt.) Arch. Natg., Berlin, **72**, 1906, (311-322, Taf. xxi-xxii).

[**Sars, G[eorge] O[ssian]. 1.** On two apparently new *Phyllopora* from South Africa. Arch. Math. Naturv., Kristiania, **27**, No. 4, 1905, (1-16, pls. i-ii).]

Sars, G. O. 2. Postembryonal development of *Athanas nitescens*, Leach. Arch. Math. Naturv., Kristiania, **27**, No. 10, 1906, (1-29, pl. i-iv).

Sars, G. O. 3. An account of the *Crustacea* of Norway, with short descriptions and figures of all the species. Vol. 5. *Copepoda Harpacticoida*. Parts 11 and 12, (133-156, pls. lxxxi-xcvi). Parts 13 and 14, (157-172, pls. xcvi-exii). Parts 15 and 16, (173-196, pls. exiii-cxxviii). Bergen, 1906.

Schiller, K. *vide* Schorler, B.

Schmalz, C. Cirripedia. (= Martini u. Chemnitz, Systematisches Conchylien-Cabinet, Lfg 509-510 = Bd 11, H. 27-28 = Sect. 170.) Nürnberg (Bauer & Raspe), 1906, (1-82, 14 Taf.). 30 cm. Die Lfg 9 M.

Schmitt, J. Monographie de l'île d'Anticosti (Golfe Saint-Laurent). Paris, 1904, (i-vi + 1-367).

Schorler, B., Thallwitz, J. & Schiller, K. Pflanzen- und Tierwelt des Moritzburger Grossteiches bei Dresden. Ann. biol. lacustre, Bruxelles, **1**, 1906, (193-311).

Scott, A. 1. Report on the tow-nettings. [Report on the investigations carried on during 1905, in connection with the Lancashire Sea-Fisheries Laboratory, etc., etc.] Liverpool, Proc. Trans. Biol. Soc., **20**, 1906, (164-190).

Scott, A. 2. Faunistic notes. [Report on the investigations carried on during 1905, in connection with the Lancashire Sea-Fisheries Laboratory, etc.] Liverpool, Proc. Trans. Biol. Soc., **20**, 1906, (191-200, pls. ii-x).

Scott, T. 3. Notes on British *Copepoda*: change of names. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (458-467, pl. xi).

Scott, T. 4. A catalogue of land, fresh-water, and marine *Crustacea* found in the basin of the river Forth and its Estuary. Edinburgh, Proc. R. Physic. Soc., **16**, 1906, (97-190 and 267-386, pl. vi).

Scott, T. *vide* Norman, A. M.

Scourfield, D. J. The Wild Fauna and Flora of the Royal Botanic Gardens, Kew.—*Crustacea*. Kew Bull., London, Add. Ser., **5**, 1906, (14-21).

Scupin, E. Die niederen Kruster und ihre Bedeutung für den Haushalt der Gewässer. I. *Branchipus stagnalis* L. II. Die deutschen *Apys*-Arten. III.

- Muschelkrebse (*Ostracoda*). Bl. Aquarienkunde, Magdeburg, **17**, 1906, (208-209, 218-220, 229-230, 238-240, 247-250, 350-351, 360-361).
- Sellier, J. Existence de la présure dans le suc digestif des Crustacés. Paris, C.-R. soc. biol., **61**, 1906, (449-450).
- (Shantz, H[omer] L[eroy]. Notes on the North American species of *Branchinecta* and their habitats. Woods Holl, Mass., Mar. Biol. Lab. Bull., **9**, 1905, (249-264, pl. c.).)
- Siemiradski, J. von. Die Paläozoischen Gebilde Podoliens. II. Paläontologischer Teil. Wien, Beitr. Pal. Geol. Öst-Ung., **19**, 1906, (213-286, Taf. xv-xxi).
- Sillems, C. *vide* Webb, W. M.
- Sjöstedt, Y. Übersicht der Ergebnisse einer zoologischen Reise in Kamerun, West-Afrika, 1890-1892. Stockholm, 1905, (1-102).
- [Skorikov, A.] Скориковъ, А. Къ биологiи морского таракана. [Sur la biologie de la blatte de mer (*Chiridothera entomon* L.); Isopoda.] St. Petersburg, Bull. Ac. Sc., Ser. 5, **24**, 1906, (53-64).
- Slater, I. L. *vide* Elles, G. L.
- Smith, G[eoffrey]. *Rhizocephala*. Fauna Neapel, Berlin, **29**, 1906, (1-123, Taf. i-viii).
- (Smith, Grant. The effect of pigment-migration on the phototropism of *Gammarus annulatus* S. I. Smith. Cambridge, Mass., Cont. Mus. Comp. Zool. Harvard Coll., No. **161** in Amer. J. Physiol., Boston, Mass., **13**, 1905, (205-216, with text fig.).)
- Southwell, T. Report on the *Anomura* collected by Professor Herdman at Ceylon, in 1902. London, Rep. Pearl Oyster Fish., **5**, 1906, (211-224).
- (Spaulding, E[dward] G[leason]. An establishment of association in hermit crabs. J. Comp. Neur., Granville, Ohio, **14**, 1904, (49-61).)
- Stead, David G. Crustaceans: Ancient, Modern and Mythical, with Notes on Edible Crustaceans of N.S.W. Vol. I. Sydney, N.S.W., 1905, (62, 7 pls.).
- (N-9720 L)
- Stebbing, Thomas R. R. **1**. A new Costa Rican Amphipod. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **31**, 1906, (501-504, pl. xi).
- Stebbing, T. R. R. **2**. Amphipoda. I. Gammaridea. (Das Tierreich, hrsg. v. F. E. Schulze, Lfg 21.) Berlin (R. Friedländer & S.), 1906, (xxxix + 806).
- Steuer, A. Einiges über die Copepoden der Valdivia-Expedition. Verh. Ges. D. Natf., Leipzig, **77**, Tl. 2, 1906, (204, 205).
- Stingelin, Theodor. **1**. Cladoceren aus Paraguay; zweiter Beitrag zur Kenntnis südamerikanischer Entomstraken. Ann. biol. lacustre, Bruxelles, **1**, 1906, (181-192).
- Stingelin, T. **2**. Neue Beiträge zur Kenntnis der Cladocerenfauna der Schweiz. Rev. Suisse Zool., Genève, **14**, 1906, (317-387, pl. xiii-xv).
- Szczawinska, Wanda. Contribution à l'étude des cytotoxines chez les Invertébrés. Arch. parasit., Paris, **9**, 1905, (546-563).
- Tattersall, W. M. **1**. Pelagic Amphipoda of the Irish Atlantic slope. Fish. Ireland Sci. Invest., **4**, 1905, [1906], (1-39, Taf. i-v).
- Tattersall, W. M. **2**. Report on the *Leptostraca*, *Schizopoda* and *Stomatopoda* collected by Professor Herdman at Ceylon, in 1902. London, Rep. Pearl Oyster Fish., **5**, 1906, (157-188, 3 pls.).
- Tattersall, W. M. *vide* Holt, E. W. L. **1, 2**.
- Tessmann, Max. Beiträge zur Entwicklungsgeschichte der Cirripeden. Diss., Leipzig. Berlin (Druck v. A. W. Hayn's Erben), 1904, (38, 2 Taf.).
- Thallwitz, J. *vide* Schorler, B.
- Thiebaud, M. et Favre, J. Contribution à l'étude de la faune des eaux du Jura. Ann. biol. lacustre, Bruxelles, **1**, 1906, (57-113).
- (Thompson, M[illett] T[ayler]. Immature specimens of *Penella filosa*. Woods Holl, Mass., Mar. Biol. Lab. Bull., **8**, 1905, (296-307, with text fig.).)

[Tretiakow, D. K.] Третьяковъ, Д. К. Верхневолжская мизиды. [Eine Myside der oberen Wolga.] St. Peterburg, Trav. Soc. nat., **37**, 1, 1906, (128-131).

Ulrich, Edward O[scar] and Bassler, Ray S. New American Paleozoic *Ostracoda*. Notes and descriptions of Upper Carboniferous genera and species. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, 1906, (149-164, pl. xi).

Vávra, V. 1. Die Süßwasser-Ostracoden Deutsch-Ost-Afrikas. Deutsch Ost-Afrika, **4**, 1898, Berlin, (28 pp.).

Vávra, V. 2. Ergebnisse einer naturwissenschaftlichen Reise zum Erdschias-Dagh (Kleinasien) I. Zoologischer Teil-Rotatorien und Crustaceen. Wien, Ann. Nat. Hist. Hofmus., **20**, 1905, (106-112, Taf. iii).

Vávra, V. 3. Die Ostracoden. (Halocypriden und Cypridiniden) der Plankton-Expedition. (Ergebnisse der Plankton-Expedition der Humboldt-Stiftung. Bd 2 G. g.) Kiel v. Leipzig (Lipsius & Tischer), 1906, (76, 8 Taf.).

Vávra, V. 4. Ostracoden von Sumatra, Java, Siam, den Sandwich-Inseln und Japan. (Reise von Dr. Walter Volz.) Zool. Jahrb., Jena, Abt. f. Syst., **23**, 1906, (413-438, 2 Taf.).

(Vayssiére, A. Description de quelques spécimens de *Balanus psittacus* Molina, appartenant au Muséum d'Histoire naturelle de Marseille. Ann. Fac. Sci., Marseille, **15**, 1905, (161-170).)

Versluys, J. Die Gorgoniden der Siboga-Expedition. II. Die *Primnoidae*. Uitkomsten H. M. Siboga, uitgegeven door Max Weber. [Résultats des explorations à bord du Siboga, publiés par Max Weber.] Livr. 27, Monogr. **13a**, Leiden (E. J. Brill), 1906, (187, 10 pls.).

Viré, A. Note sur un Isopode appartenant à la faune souterraine du nord de l'Italie. Paris, C.-R. cong. soc. sav., **1904**, (54-56).

Volk, R. Hamburgische Elb-Untersuchung VIII. Studien über die Einwirkung der Trockenperiode im Sommer 1904 auf die biologischen Verhältnisse der Elbe bei Hamburg. Mit einem

Nachtrag über chemische und planktologische Methoden. Hamburg, Mitt. naturhist. Mus., **23**, 1906, Beiheft 2, (1-101, Taf. i, ii).

Walcott, C. D. Cambrian faunas of China. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **29**, 1906, (1-106).

Walker, Alfred O. 1. Preliminary descriptions of new species of *Amphipoda* from the "Discovery" Antarctic Expedition, 1902-1904. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (452-458), **18**, (13-18, 150-154).

Walker, A. O. *vide* Chilton, C., **6**.

Wake, P. K. List of woodlice found at Courteenhall. Northampton, J. Nat. Hist. Soc., **13**, 1906, (273).

Ward, J. Contributions to the geology and palaeontology of North Staffordshire. No. VI. Palaeontology of the Cheadle coalfield. Stone, Rep. N. Staff. F. Cl., **40**, 1906, (102-137, pl. ii).

Waters, A. H. Notes on marine *Crustacea* in confinement. Zoologist, London, Ser. 4, **10**, 1906, (53-57 and 174-178).

Webb, W. M. and Sillem, C. The British woodlice. Stratford, Essex Nat., **14**, 1906, (97-111, pls. xxii-xxv).

Welch, R. *Trichoniscus roseus* near Liverpool. Naturalist, London, **1906**, No. 589, (60).

Weller, S. The fauna of the Cliff-wood (N.J.) clays. J. Geol., Chicago, Ill., **13**, 1905, (324-337).

Weltner, W. 1. Die Cladoceren Ost-Afrikas. Deutsch Ost-Afrika, **4**, 1898. Berlin, (14, 2 Taf.).

Weltner, Wilhelm *vide* Samter, M.

West, G. S. *vide* West, W.

West, W. and West, G. S. A comparative study of the Plankton of some Irish lakes. Dublin, Trans. R. Irish Acad., **33**, (B) 1906, (77-116, pl. vi-xi).

Whiteaves, J. F. Palaeozoic fossils. **3**, 1906, pt. 4, (243-352, pls. xxiii-xlii). Ottawa, Geol. Surv. Canada. . . .

Willey, A. A harbour worm and a boxing crab. Spolia Zeylan., Colombo, **3**, 1906, (222-226).

Williams, W. L. Notes on marine *Copepoda* of Rhode Island. Amer. Nat., Boston, Mass., **40**, 1906, (639-660).

Wilson, C. B. Report on some parasitic *Copepoda* collected by Professor Herdman at Ceylon, in 1902. London, Rep. Pearl Oyster Fish., **5**, 1906, (189-210, 5 pls.).

Wilson, J. H. The Pleistocene formations of Sankaty Head, Nantucket. J. Geol., Chicago, Ill., **13**, 1905, (713-734).

Wolfenden, R. N. Plankton Studies. Preliminary notes upon new or interesting species. Part III. *Copepoda*. London and New York, 1906, (25-44, pls. viii-xiv).

Wolleboek, Alf. 1. Nogle statistiske Oplysninger om Fisket efter Dybvandsreker (*Pandalus borealis*) i Kristianiafjorden indenfor Drøbak. [Einige statistische Mittheilungen über den Fang von *Pandalus borealis* im inneren Kristianiafjord (Norwegen).] Bergen, Norsk Fisket., **25**, 1906, (471-480, 1 Karte).

Wolleboek, A. 2. Le développement du genre *Sclerocrangon* (G. O. Sars). Bergens Mus. Aarb., **1906**, No. 11, (1-9, 2 pls.).

Wolski, Tadaus. Die Kiemenfüsse (*Apus productus*) bei Warschau. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (478).

Woltereck, R[ichard]. 1. Fünfte Mittheilung über die Hyperiden der Valdivia-Expedition: *Micromimonectes* n. gen. Zool. Anz., Leipzig, **30**, 1906, (187-194).

Woltereck, R. 2. Weitere Mittheilungen über Hyperiden der Valdivia- (No. 6) und Gauss-Expedition (No. 3): *Sphaeromimonectes scinoides* (n. sp.), *S. gaussi*, *S. cultricornis* (n. sp.) und *S. valdiviae*, eine morphologische Reihe. Zool. Anz., Leipzig, **30**, 1906, (865-869).

Woltereck, R. 3. Mittheilungen aus der Biologischen Station in Lunz (N.-Ö.). Biol. Centralbl., Berlin, **26**, 1906, (463-480).

Woodward, H. Cirripedes from the Trimmingham Chalk and other localities in Norfolk. Geol. Mag., London, Dec. 5, **3**, 1906, (337-353).

[**Wreden, I.**] Вреденъ, Э. Къ вопросу о периферической нервной системѣ у *Gammarus pulex* L. [Zur Frage des peripherischen Nervensystems bei *Gammarus pulex* L.] St. Peterburg, Ber. Süßwasserst. Naturf. Ges., **2**, 1906, (153-157); deutsches Rés., (158-160, Taf. iii).

Wright, F. S. *Arctus ursus* (better known as *Scyllarus arctus*) at Guernsey. Zoologist, London, **10**, 1906, (78).

Zacharias, Otto. Zur Biologie und Oekologie von *Polyphemus pediculus* (Linné). Zool. Anz., Leipzig, **30**, 1906, (455-459).

Zederbauer, E. vide Brehm, V., **5**, **6**.

Zeleny, C[harles]. 1. The regeneration of an antenna-like organ in place of the vestigial eye of the blind crayfish. Science, New York, N.Y., **23**, 1906, (527).

(**Zeleny, C.** 2. The regeneration of a double chela in the fiddler crab (*Gelasimus pugilator*) in place of a normal single one [Contributions from the Zoological Laboratory of Indiana University, No. 67.] Wood's Holl, Mass., Mar. Biol. Lab. Bull., **9**, 1905, (152-155).)

[**Zograf, Nikolai.**] 1. Зографъ, Николай. Пакообразные космополиты. [Kosmopolitische Krustaceen]. Naturfreund, St. Peterburg, **1**, 1906, (145-152, 158-204).

Zograf, N. 2. Hermaphroditismus bei dem Männchen von *Apus*. Zool. Anz., Leipzig, **30**, 1906, (563-567).

(**Zograf, N.** 3. La calotte cervicale chez les nauplius de l'*Artemia salina*. Paris, C.-R. Acad. sci., **141**, 1905, (903-905).)

Zschokke, F. Die Tiefenfauna des Vierwaldstätter-Sees. Verh. Schweiz. Natf. Ges., Aarau, **88**, 1906, (122-143).

Zykoff, W[ladimir]. 1. *Bosminopsis* in Russland. Zool. Anz., Leipzig, **30**, 1906, (22-24).

Zykoff, W. 2. Das Plankton einiger Gewässer Nordrusslands. Zool. Anz., Leipzig, **30**, 1906, (163-168).

(**Zykoff, W.** 3. Nachtrag zur „Bemerkung über *Laophonte mohammed Rich*“. Zool. Anz., Leipzig, **29**, 1905, (347).)

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Erythraea, *Isopoda*, 3 spp. n.; **Nobili, 8.**

West Africa, *Potamonidae* spp. n.;
Rathbun, 6.—*Decapoda* 1 sp. n.;
Bouvier, 7.

West coast of Africa, *Urripedia*;
Gruvel, 2.

Cameroons, *Crustacea*; **Sjöstedt.**

Spanish Guinea, *Decapoda*; **Nobili, 9.**

San Thomé Id, *Decapoda* and
Stomatopoda 1 sp. n.; **Bouvier, 8.**

Ogowe basin, French Congo, *Al-
pheidae* sp. n.; **Coutière, 2.**

East Africa, *Potamonidae* spp. n.;
Rathbun, 6.

German East Africa, *Cladocera* 4 spp.
n., 1 var. n.; **Weltner.**—*Ostracoda* 1
gen. n., 10 spp. n.; **Vávra, 1.**—*Copepoda*
3 spp. n.; **Mrázek.**—*Isopoda* 10 spp.
n.; **Budde-Lund, 1.**—*Decapoda* 9 spp. n.,
2 varr. n.; **Hilgendorf.**

Mozambique coast, *Acanthophrys* 1
var. n.; **Bouvier, 6.**

Mt. Ruwenzori, *Decapoda* and *Isopoda*
2 spp. n.; **Nobili, 6.**

African lakes, *Macrura* 2 genn. n. 10
spp. n.; **Calman, 3.**

South Africa, *Isopoda* 2 spp. n.;
Budde-Lund, 2, and **Richardson, 3.**—
Potamonidae spp. n.; **Rathbun, 6.**

Cape Colony, *Entomostraca* 2 spp. n.;
Sars, 1.

Natal, *Copepoda* 1 gen. and sp. n.;
Cooper.

S. African seas, *Copepoda* 6 spp. n.;
Cleve.

Madagascar, *Potamonidae* spp. n.;
Rathbun, 6, and **Nobili, 7.**

Madagascar, *Amphipoda* gen. and sp.
n.; **Coutière, 5.**

Red Sea, *Oxyrhyncha* and *Oxystomata*
1 gen. n., 7 spp. n., 2 varr. n.; **Klunzinger,**
1, 2.—*Decapoda* and *Stomatopoda* 1 var.
n.; **Nobili, 2.**—*Bopyridae* *Isopoda* genn.
n., spp. n.; **Nobili, 5.**

(Red Sea, *Caligus* sp. n.; **Brian, 2.**)

North America.

g

(North American *Branchinecta* and
their habitats; **Shantz.**)

Gulf of S. Lawrence, Anticosti Is.,
Crustacea; **Schmitt.**

United States of America, *Copepoda*
6 spp. n.; **Pearse, 1, 2.**—Distribution
of *Cambarus*; **Ortmann, 4.**

New England, *Decapoda*; **Cushman,**
2.—*Crustacea*; **Rathbun, 2.**

Rhode Island, N. America, *Copepoda*
3 spp. n.; **Williams.**

Vineyard Sound, *Ostracoda* 1 gen. n.,
10 spp. n.; **Cushman, 1.**

Pennsylvania, *Cambarus*; **Ortmann,**
2.

(Western Pennsylvania, *Cambarus*
spp.; **Ortmann, 5.**)

Ohio, *Isopoda*; **Lindahl.**—*Cladocera*; **Gammon.**

Nebraska, *Cladocera* 1 sp. n., 1 var.
n.; **Fordyce, 1, 2.**

Colorado, *Copepoda* 1 sp. n.; **Marsh.**
—*Cladocera* 1 sp. n.; **Birge.**

California, *Phyllopoda* 1 sp. n.;
Kellogg.—*Isopoda*; **Richardson, 3.**

Californian coast, *Ostracoda* 19 spp.
n.; **Esterly, 2,** and **Juday.**—*Copepoda* 4
spp. n.; **Esterly, 1.**

Central and South America and West Indies. *h*

Central America, *Potamonidae* spp.
n.; **Rathbun, 6.**

Costa Rica, *Brachyura* 3 spp. n.;
Rathbun, 4.—*Amphipoda* 1 sp. n.;
Stebbing, 1.

Mexico, *Cambarus* 1 subg. n., 1 sp. n.;
Ortmann, 4.

British Honduras, *Cambarus* 1 sp. n.;
Ortmann, 4.

Panama, *Isopoda* 1 sp. n.; **Richard-
son, 2.**

(West Indies, *Penaeidea* and *Stenopidea*
spp. n.; **Bouvier, 13.**)

Dominica, W. Indies, *Brachyura* 1
sp. n.; **Rathbun, 3.**

South America, *Isopoda* 5 spp. n.;
Richardson, 3.

S. America, *Penaeidea* and *Stenopidea*
spp. n.; **Bouvier, 13.**

South American lakes, *Amphipoda*;
Chevreaux, 2.

(Lake Titicaca, *Amphipoda* 1 sp. n.;
Chevreaux, 5.)

Venezuela, *Potamonidae* spp. n.;
Rathbun, 6.

Paraguay, *Cladocera* 1 sp. n.;
Stingelin, 1.

Colombia, *Potamonidae* spp. n.;
Rathbun, 6.

Brazil, *Seyllarides* sp. n.; **Rathbun, 5.**—*Potamonidae* spp. n.; **Rathbun, 6.**

Argentina, *Potamonidae* sp. n.;
Rathbun, 6.

Australasia. i

Australia, *Crustacea*; **McCulloch, 1.**—*Isopoda*; **Richardson, 3.**

Queensland, *Brachyura* and *Anomura*
5 spp. n.; **Grant and McCulloch.**

Victoria, *Crustacea*; **Kershaw.**—*Decapoda* 2 spp. n.: **Fulton and Grant, 1, 2.**

South Australia, *Brachyura* 4 spp. n.,
1 var. n.; **Baker.**

(Port Jackson, *Decapoda* spp. n.;
Grant.)

West Australia, *Potamonidae* spp. n.;
Rathbun, 6.

New Zealand: *Crustacea*; **Chilton, 3, 4, 5.**—*Entomostraca* 1 gen. n. 3 spp. n.; **Brady, 1.**—*Ostracoda* 1 sp. n.; **Chapman, 1.**—*Isopoda*; **Chilton, 1, 2.**

Auckland Is., *Isopoda*; **Budde-Lund, 2.**

Arctic and Antarctic. k, o

Kara Sea, *Amphipoda Gammaridea*
1 sp. n.; **Stebbing, 2.**

Arctic Ocean, *Copepoda*; **Sars, 3.**

Greenland, *Rhizocephala* gen. n.,
sp. n.; **Smith, Geoffrey.**

Antarctic, *Cladocera* and *Copepoda*
1 gen. n., 5 spp. n., 1 var. n.; **Ekman.**—*Ostracoda* 2 spp. n.; **Müller, 2.**—*Copepoda* 5 spp. n.; **Quidor, 1, 2.**—*Cirripedia* 2 spp. n.; **Gruvel, 3.**—*Schizopoda* 5 spp. n.; **Holt and Tattersall, 1.**—*Amphipoda* 3 genn. n., 7 spp. n.; **Chevreaux, 1.**—4 genn. n., 19 spp. n.; **Walker.**—*Seba* sp. n. (*Amphipoda*); **Walker vide Chilton, 6.**—*Isopoda* 4 genn.

n., 6 spp. n.; **Richardson, 4.**—*Anomura*
and *Brachyura*; **Lagerberg.**

Sub-Antarctic islands, *Schizopoda*
spp. n.; **Illig, 1.**

Kerguelen, *Ostracoda* 1 sp. n.;
Müller, 3.—*Schizopoda* spp. n.; **Illig, 1.**

Atlantic Ocean. l

Ostracoda genn. and spp. n.; **Müller, 3;** **Vávra, 3.**—*Copepoda* 2 genn. n.,
10 spp. n.; **Wolfenden.**—*Schizopoda*
spp. n.; **Ortmann, 1; Illig, 1.**

(Atlantic, *Cirolana* spp. n.; **Dollfus, 1.**
—*Lysianassidae* spp. n.; **Chevreaux.**)—*Lyasmata seticaudata*; **Pérez, 8.**—*Gemmadas* 4 spp. n.; **Bouvier, 1.**—*Haliporus*
4 spp. n.; **Bouvier, 4, 5.**—*Eurydice*
sp. n.; *Isopoda*; **Norman, 2.**

North Atlantic, *Crustacea*; **Rathbun, 2.**

S. Atlantic, *Amphipoda* 1 sp. n.;
Woltereck, 2.—*Copepoda* spp. n.;
Cleve.

St. Paul and Crozet Is., *Isopoda*
2 spp. n.; **Budde-Lund, 2.**—*Schizopoda*
sp. n.; **Illig, 1.**

Indian Ocean. m

Cirripedia 9 spp. n., 1 subsp. n.,
2 varr. n.; **Annandale, 3, 4.**—*Copepoda*
2 genn. n., 4 spp. n. **Wilson, Cleve.**—*Leptostraca*, *Schizopoda*, *Stomatopoda*
2 spp. n.; **Tattersall, 2.**—*Schizopoda*
genn. and spp. n.; **Illig, 1, 2.**—*Amphipoda* 1 sp. n.; **Woltereck, 2.**—*Peneidae*
2 varr. n.; **Alcock.**—*Anomura* 2 spp. n.;
Southwell.—*Brachyura* 3 genn. n.,
14 spp. n., 10 varr. n.; **Laurie.**—*Bopyridae* (*Isopoda*) genn. n., spp. n.;
Nobili, 5.

Christmas Island, *Ptychognathus* and
Palaemon; **de Man, 1.**

Andaman Is., *Cryptochirus dimorphus*
sp. n.; **Henderson.**

Pacific. n

Ostracoda genn. and spp. n.; **Müller, 3,** **Juday, Esterly, 1, 2.**—*Schizopoda*
1 sp. n.; **Ortmann, 1.**

Tuamotu Is., *Decapoda* and *Isopoda* 5 genn. n., 34 spp. n., 3 varr. n.; **Nobili, 3, 4.**

Eastern Pacific, *Isopoda* 1 gen. and 1 sp. n.; **Richardson, 1.**

Hawaiian islands, *Brachyura* and *Macrura* genn., spp. and subsp. n.; **Rathbun, 1.**—*Copepoda* 1 sp. n.; **Daday, 4, 5.**

Marcus island, *Crustacea*; **Bryan.**

Gambier Is., *Alpheidae* 1 sp. n.; **Coutière, 1.**

FOSSIL FORMS.

Palaeozoic, Bohemia, *Ostracoda*; **Siemiradski.**

Cambrian, China, *Ostracoda* spp. nn.; **Walcott.**

Silurian, Ludlow, *Crustacea*; **Elles** and **Slater.**

Silurian, Holland, *Entomostraca*; **Jonker.**

Silurian, Canada, *Crustacea*; **Whit-eaves.**

Silurian, New York, *Crustacea*; **Clarke** and **Ruedemann.**

Ordovician, Canada, *Ostracoda*; **Ami.**

Carboniferous, N. Staffordshire, *Crustacea*; **Ward.**

Carboniferous, Chester, *Crustacea*; **Pocock.**

Carboniferous, Scotland, *Crustacea*; **Peach.**

Carboniferous, Scotland, *Ostracoda*; **Macnair.**

Carboniferous, Kansas, U. S. America, *Ostracoda*; **Ulrich** and **Bassler.**

Trias, Britain, *Estheria*; **Lomas.**

Jurassic, France, *Crustacea*; **Méchin.**

Purbeck, Dorset, *Ostracoda*; **Chapman, 2.**

Cretaceous, Norfolk, *Cirripedia* 1 sp. n. 1 var. n.; **Woodward.**

Lower Cretaceous, Germany, *Crustacea* 5 spp. n.; **Harbort.**

Lower Cretaceous, Crimea, *Crustacea* 1 sp. n.; **Borissiak.**

Tertiary, New Jersey, *Brachyura* gen. and sp. n.; **Weller.**

Tertiary, Belgium, *Crustacea*; **Destinez.**

Tertiary, Italy, *Ostracoda*; **Cappelli.**

Tertiary, Italy, *Cirripedia* 5 spp. n. 1 var. n.; **Alessandri.**

Tertiary, Italy, *Brachyura*; **Airaghi.**

Tertiary, Hungary, *Decapoda* 1 gen. and sp. n.; **Lörenthey.**

Eocene, Spain, *Crustacea*; **Almera.**

Eocene, Sicily, *Brachyura* 1 gen. n. 3 spp. n.; **Checchia-Rispoli.**

Pliocene, Maryland, U. S. America, *Crustacea*; **Clark.**

Pleistocene, Nantucket, U. S. America, *Crustacea*, **Wilson**; Maryland, U. S. America, *Crustacea*; **Clark.**

Drift, Cheshire, *Cirripedia*; **Newton.**

III.—SYSTEMATIC. 2631

DECAPODA.

Decapoda of Norway and North Sea, APPELLÖF, Meeresfauna von Bergen, 1906, (113-238, with 2 pls. and 3 maps).

Brachyura.

OXYRHYNCHA.

Oxyrhyncha structure, KLUNZINGER, Spitzkrabben des Roten Meeres. (vii + 91, with 2 pls.).

Acanthophrys characters of genus, list of species (486, 487), *harmandi* Japanese Seas (484), *germaini* Cochin China (486-487) **spp. n.**, *longispinus* de Haan *spinosissima* var. n. Mozambique (487, 488), BOUVIER, Bul. Muséum, Paris, 12.—*A. harmandi* **sp. n.** Seas of Japan. BOUVIER, T.c. (484).

Achacus dubia **sp. n.** Ceylon. LAURIE, Rep. Pearl Oyster Fish., 5, (367).

Camposcia retusa Latr. Red Sea, KLUNZINGER, Spitzkrabben des Roten Meeres, (15, pl. 1, fig. 1).

Chlorinoides goldsboroughi **sp. n.** Hawaiian islands. RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23, (881, pl. xiv, fig. 7).

Cryptopodia pau **sp. n.** Ceylon. LAURIE, Rep. Pearl Oyster Fish., **5**, (392, pl. 1, fig. 6).

Cyclax suborbicularis Stimps. Red Sea. KLUNZINGER, Spitzkrabben des Roten Meeres, (34, pl. 1, fig. 6).

Cyphocarcinus minutus A.M.-Edw., description, synonymy, NOBILI, Bul. sci. France Belgique, **40**, (109).

Cyrtomaia smithi Rathb., described (877, pl. vi, fig. 31, 35), *lamellata* **sp. n.** Hawaiian islands, (879, fig. 36). RATHBUN, Washington, D.C., Bul. U. S. Com. Fish., 1903, **23**.

Doclea alcocki **sp. n.** Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (381, pl. i, fig. 5, pl. ii, fig. 2).

Eurynome granulosa **sp. n.** S. Australian coast, BAKER, Adelaide, S. Aust., Trans. R. Soc., **30**, (108, pl. i, fig. 3).

Halimus convexus Miers *hendersoni* var. n. (377), *pehleri* (378, pl. i, fig. 3, 3A), *irami* (379, pl. i, fig. 4, 4A) **spp. n.** Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**.

Harrovia truncata **sp. n.** Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (886, pl. xiv, fig. 8).

Herbstia corniculata (27, pl. i, fig. 4), *contiguicornis* (28, pl. i, fig. 5) **spp. n.** Red Sea, KLUNZINGER, Spitzkrabben des Roten Meeres.

Heterocrypta petrosa **sp. n.** Red Sea, KLUNZINGER, op. cit. (53, pl. ii, fig. 9).

Hyastenus fultoni **sp. n.** Off Port Jackson, GRANT, Sydney, N.S.W., Proc. Linn. Soc., **30**, (313, pl. xi, fig. 1.)

Inachus scorpio, sexual characters affected by *Sacculina* parasite, SMITH, Fauna Neapel, Berlin, **29**, (66-76).

Lambrus, *Oneodolambrus*, **subgen. n.**, *praedator* **sp. n.** Japan, DE MAN, Ann. Mag. Nat. Hist., London, ser. 7, **17**, (400).—*L. leprosus* Nob. (179, pl. ix, fig. 7), *montiger* Nob. (185, pl. xi, fig. 3). Red Sea, NOBILI, Ann. sci. nat. zool., Paris, **4**.—*L. validus* de Haan, new to Australia, McCULLOCH, Sydney, N.S.W., Rec. Austr. Mus., **6**, (231).

Liomedon **gen. n.**, (*Parthenopidae*) *pentagonus* **sp. n.**, Red Sea, KLUNZINGER, Spitzkrabben des Roten Meeres, (56-57, pl. ii, f. 11).

Macrocheira kaempferi, Sea of Japan, CARRUCCIO, Roma, Boll. Soc. zool. ital., **6**, (85-95, with 1 plate).

Micippa philypa Herbst, *thalia* Herbst dimorphic, Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (384, 385).—*M. platipes* Rüpp., Red Sea, KLUNZINGER, Spitzkrabben des Roten Meeres, (37, pl. i, f. 8).

Oneodolambrus subgen n., v. *Lambrus*.

Parahopliphrys nodulosa Nob., description, NOBILI, Bul. sci. France, Belgique, **40**, (106, text fig. 2).

Paramithrax (*Chlorinoides*) *longispinus* de Haan *bispinosus* var. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (383).

Parathoë rotundata Miers. Red Sea, KLUNZINGER Spitzkrabben des Roten Meeres, (45, pl. i, f. 7).

Paratymolus latipes Hasw. *quadridentata* var. n. S. Australian coast, BAKER, Adelaide, S. Aust., Trans. R. Soc., **30**, (107, pl. i, f. 2).

Parthenope acuta **sp. n.** Red Sea, KLUNZINGER, Spitzkrabben des Roten Meeres, (55, pl. ii, f. 10).—*P. nummifera*, (883, pl. xiv, f. 4), *stellata* (884, pl. xv, ff. 1, 2, 7), **spp. n.** Hawaiian islands, *lamelligera* White, (885, pl. xvii, f. 1), *whitei* A. M.-Edw. (885, pl. xv, f. 5), *calappoides*, Adams and White, (886, pl. xv, f. 6), described, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

Schizophrys hilensis **sp. n.** Hawaiian islands, RATHBUN, T.c. (882, text fig. 38).

Simocarcinus camelus **sp. n.**, *brevirostris*, *pinnirostris* varr. n. Red Sea, KLUNZINGER, Spitzkrabben des Roten Meeres, (17, 18, pl. i, f. 2).—*S. simplex* Dana *pyramidatus* var. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (373).

Sphenocarcinus carbunculus **sp. n.** Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (879, pl. xiv, f. 6).

Stenorhynchus ramusculus **sp. n.** S. Australian coast, BAKER, Adelaide, S. Aust., Trans. R. Soc., **30**, (104, pl. i, f. 1).

Trigonothir pyramidatus Hell. Red Sea. KLUNZINGER, Spitzkrabben des Roten Meeres, (19, pl. i, f. 3).

Xenocarcinus tuberculatus White *alcocki* var. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (371).

CYCLOMETOPA.

Actaea, synopsis of species (247); *kraussi*, Hell (248, pl. x, f. 4); *sabaea* Nob. (254, pl. x, f. 3); *nodulosa*, White (257, pl. x, f. 2); *pisigera* Nob. (259, pl. x, f. 1), descriptions; NOBILI, Ann. sci. nat. zool., Paris, **4**.—*A. alcocki* sp. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (403).—*A. garretti*, (852, pl. ix, f. 8); *hawaiiensis*, (853, pl. ix, f. 9) spp. n., Hawaiian islands, *nodulosa*, White, described, (853, pl. ix, f. 4); RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.—*A. granulata* Aud. description, NOBILI, Bul. sci. France Belgique, **40**, (127).

Actumnus bonnierii, description, NOBILI, T.c. (132, pl. vi, f. 32).

Archias sexdentatus, Pauls. description, NOBILI, Ann. sci. nat. zool., Paris, **4**, (198).

Banarcia villosa sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (854, pl. ix, f. 15).

† *Callinectes sapidus* Rathb., description, CLARK, Maryland, Geol. Surv., Pliocene and Pleistocene, Baltimore, 1906, (172, pl. xli).

Calman'a gen. n. (*Xanthidae*) *prima* sp. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (406, 407, pl. i, ff. 12A-C).

Carcinus moenas albinism, NINNI, Boll. Naturalista, Siena, **26**, (76).

Carpilodes, synopsis of species (214), *diodoreus* Nob. Red Sea, NOBILI, Ann. sci. nat. zool., Paris, **4**, (216, pl. x, f. 9).—*C. coccineus* (843, pl. viii, f. 4), *virgatus* (843, pl. viii, f. 3), *supermodus* (844, pl. viii, f. 5), spp. n., Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

Charybdis (*Goniosoma*), synopsis of species (194), *heterodon* Nob. Red Sea, NOBILI, Ann. sci. nat. zool., Paris, (196, pl. viii, f. 4).—*C. (Goniosoma) giardi*

Nob., description, NOBILI, Bul. sci. France Belgique, **40**, (115, pl. v, f. 23, pl. vii, f. 34).—*C. japonica* A. M.-Edw. (pl. xiii, f. 2), *erythroductyla* (pl. iv), *orientalis* Dana (pl. xiii, f. 1), figured; RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

Chlorodius lippus Nob. Red Sea, NOBILI, Ann. sci. nat. zool., Paris, **4**, (263, pl. x, f. 8).

Chlorodopsis aberans sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (859, text fig. 20).

† *Cyamocarcinus angustifrons* Bittner, Eocene, Italy, CHECCHIA-RISPOLI, Palermo, Giorn. sc. nat. econ., **25**, (314, pl. i, ff. 5-8).

Cyclozanthops angustus sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (849, f. 6).

Dacryopilumnus gen. n., *eremita* sp. n. Tuamotu Is. Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (263-264).

Deckenia mitis sp. n. German E. Africa, HILGENDORF, Deutsch Ost-Afrika Dekapoden, (24, f. 8).

Demia gen. n., near *Zozymus*, *splendida* sp. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (396-397, pl. i, f. 8, and pl. ii, f. 1).

Eriphia spinifrons with two parasites, an Isopod and a *Sacculina*, SMITH, Fauna Neapel, Berlin, **29**, (76-80).

Etisus splendidus sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (850, plates iii and x).

Eurycercinus orientalis A. M. Edw. (289, pl. xi, f. 5), *integrifrons* de Man (290, pl. xi, f. 2), descriptions, NOBILI, Ann. sci. nat. zool., Paris, **4**.

Eucanthus herdmanni sp. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (400, pl. i, ff. 9, 9A).

† *Gemmellarocarcinus* gen. n. (*Caneridae*), *lörentzei* sp. n. Eocene, Italy, CHECCHIA-RISPOLI, Palermo, Giorn. sc. nat. econ., **25**, (315, 316, pl. i, ff. 1-2).

Gomezia bicornis Gray, variation, Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (421).

Goniocapthya inaequalis sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (870, pl. xii, f. 9).

Halimede hendersoni Nob., description, NOBILI, Bul. sci. France Belgique, **40**, (123, pl. vi, f. 31).

Heteropanope pharaonica Nob., Red Sea, NOBILI, Ann. sci. nat. zool., Paris, **4**, (286, pl. xi, f. 1).

Leptodius, synopsis of species, NOBILI, T.c. (239).—*L. molokaiensis*, (847, pl. ix, f. 1), *waialuanus*, (848, pl. viii, f. 9), spp. n. *nudipes* Dana, *gracilis* Dana figured, (848, pl. ix, ff. 2, 3), Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

Liomera, synopsis of Red Sea species, NOBILI, Ann. sci. nat. zool., Paris, **4**, (221).—*L. praetexta* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (844, f. 7).

Lioxantho haswelli nom. n. for *Cycloxanthus*? *punctatus* Hasw., FULTON and GRANT, Melbourne, Proc. R. Soc. Vict., **19**, (7).

Lophactaea, synopsis of Red Sea species, NOBILI, Ann. sci. nat. zool., Paris, **4**, (230).

Lophozozymus intonsus described, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (846, pl. viii, f. 8).

Lupa aburatsubo sp. n. Japan, DOFLEIN, Verh. D. zool. Ges., Leipzig, **16**, (71).

Lupocyclus quinquedentatus sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (869, pl. xii, f. 7).

Lybia, synopsis of Indo-Pacific species, *denticulata* Nob., Red Sea, NOBILI, Ann. sci. nat. zool., Paris, **4**, (294, pl. viii, f. 6).

Melia tessellata Latr. bearing Actinians in its claws, Hawaiian Islands and Ceylon, DUERDEN, London, Proc. Zool. Soc., **1905**, (497–506); RICHTERS, Zool. Beob., Frankfurt a. M., **47**, (225–228); WILLEY, Spolia Zeylan., **3**, (224–226).

Menippe convexa Rathb. described, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (861, pl. xi, f. 4).

† *Microcorystes* gen. n. (near *Corystes*), *latifrons* sp. n. Eocene, Hungary, LÖRENTHEY, Math. Terint. Ért., Budapest, **22**, 1904, (161).

Micropanope sexlobata sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (856, pl. ix, f. 13).

Neptunus, synopsis of species, NOBILI, Ann. sci. nat. zool., Paris, **4**, (189).—*N. (Hellenus) arabicus* Nob. description, NOBILI, Bul. sci. France Belgique **40**, (115, pl. v., f. 22).—*N. euglyphus* sp. n. (413), *hastatoides* Fab. *unidens* var. n. (414), *longispinosus* Dana, *bidens* var. n. (415), *dubia* sp. n. (416), Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**.

Parapleurophrycoides gen. n. *roseus* sp. n. Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (264).

(*Parathelphusa pariei* sp. n. Laos, MAN, Mission Pavie, **3**, (320, pl. xvii, f. 4).)

Parathranites hexagonum (867, pl. xii, f. 3), *latibrachium* (868, text-fig. 26), spp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

† *Phlyctenodes depressus* Edw. figured, AIRAGHI, Milano, Atti. Soc. ital. sc. nat., **44**, (205, pl. iv, f. 3).—*P. krenneri* Lörenthey, Eocene, Italy, CHECCHIA-RISPOLI, Palermo, Giorn. sc. nat. econ., **25**, (310, pl. i, f. 10).

Phymodius laysani sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (858, pl. xii, f. 8).

Pilodius armiger Nob., Red Sea, NOBILI, Ann. sci. nat. zool., Paris, **4**, (267, pl. viii, f. 5).—*P. flavus* Rathb. described, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (860, fig. 21).

Pilumnus forskalii Edw. (275, pl. x, f. 5), *propinquus* Nob. (277, pl. ix, f. 7), *spongiosus* Nob. (280, pl. x, f. 6), *schrenkii* Pauls. (283), descriptions, NOBILI, Ann. sci. nat. zool., Paris, **4**.—*P. nuttingi* (862, pl. xi, f. 8), *acutifrons* (863), *taeniola* (864, pl. xi, f. 3), spp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.—*P. parvulus*, *merodontatus* spp. n. Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (263).—*P. pilosus* sp. n.

Victoria, FULTON and GRANT, Melbourne, Proc. R. Soc. Viet., **19**, (7, pl. iv, ff. 1-4).—*P. spinicarpus* sp. n. Masthead Reef, Queensland, GRANT and McCULLOCH, Sydney, N.S.W., Proc. Linn. Soc., **31**, (15, pl. i, f. 2).—*P. trichophoroides* de Man (134), *longicornis* Hilgdt. (135), *savignyi* Hell. (138), *propinquus* Nob. (140), descriptions, NOBILI, Bul. sci. France Belgique, **40**.

Plutevistoma gen. n. (Portunidae) *macrophthalmum* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (876, fig. 33).

Platyozius perpusillus sp. n. Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (264).

Polydectus cupulifera Latr. bearing Actinians in its claws, Hawaiian islands, DUERDEN, London, Proc. Zool. Soc., **1905**, (506); RICHTERS, Zool. Beob., Frankfurt a. M., **47**, (225-228).

Portunus pubescens Dana (pl. xiv, f. 1), *granulatus* A. M. Edw. (pl. xii, f. 2), *orbicularis* Richt. (pl. xii, f. 4), *longispinosus* Dana (pl. xii, f. 6), figured, *macrophthalmus* (871, pl. xii, f. 5), sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.—*P. depurator* Leach with Gregarine parasites, LÉGER and DUBOSQ, Paris, C.-R. soc. biol., **60**, (1001-1003).

Potamoecarcinus chaffanjonii Orinoco (311, pl. xvi, f. 2), *guatemalensis*, Guatemala (313, pl. xvi, f. 7), spp. n. RATHBUN, Nouv. Arch. Muséum, Paris, **7**.

Potamonidae, classification and descriptions of species, RATHBUN, op. cit. sér. 4, **6**, 1904, (225-312, pls. ix-xviii); **7**, (159-321, pls. xiii-xxii); **8**, 33-122; catalogue, Bul. Muséum, Paris, 1906, (369-376). New species only recorded.

Potamon spp. characters, DE MAN, Zool. Jahrb., Syst., **23**, (743-760).—*P. setiger* Syria (258, pl. ix, f. 2), *shensiensis* China (262, pl. ix, f. 8), *daridi* China (264, pl. ix, f. 3), *mindanaoensis* Philippines (268, pl. x, f. 5), *kinabaluensis* Borneo (269, pl. x, f. 2), *koolooensis* N. India (270, pl. x, f. 1), *paludosus* Siam (272, pl. x, f. 4), *brousiniichi* Cochinchina (272, pl. x, f. 6), *palustris* Laos (273, pl. x, f. 3), *manii* Siam (274, pl. xi, f. 6), *tannanti* (279, pl. xi, (N-9720 l)

f. 8), *rangoonensis* Burma (279, pl. xi, f. 2), *mooleyitensis* Tenasserim (283), *luangprabangensis* (281, pl. xi, f. 9), *orleansi* (282, pl. xi, f. 7), *laosensis* (285, pl. xi, f. 3), *lacunifer* (286, pl. xi, f. 1), Indio-China and Siam, *wagrakarovensis* Mysore (292, pl. xii, f. 4), *bouvieri* India (293, pl. xii, f. 5), *nigrens* W. Africa (295, pl. xii, f. 8), *humbloti* (297, pl. xii, f. 10), *grandidieri* (298, pl. xii, f. 11), *bombetokensis* (298, pl. xii, f. 6), Madagascar, *antipoloensis* (301, pl. xiii, f. 4), *mistio* (302, pl. xiii, f. 3), Philippines, *koatenensis* China (308, pl. xiii, f. 8), *montanoanus* Philippines (309, pl. xiii, f. 7), *thagatensis*, Tenasserim (296), *inornatus* Siam (311, pl. xiv, f. 1), spp. n. RATHBUN, Nouv. Arch. Muséum, Paris, **6**.—(*P. (Potamon) eochinchinense* sp. n. Cochinchina, DE MAN, Mission Pavie, **3**, (323, pl. xviii, f. 5).)—*P. (Potamonantes) sidneyi* Natal, **7**, (165), **6**, (pl. xiv, f. 5), *lueboensis* Congo, **7**, (166), **6**, (pl. xiv, f. 2), *regnieri* W. Africa, **7**, (168), **6**, (pl. xiv, f. 3), *lirrangensis*, French Congo, **7**, (169), **6**, (pl. xiv, f. 8), *didieri*, E. Africa, **7**, (170), **6**, (pl. xiv, f. 9), *freyeineti*, W. Australia, **7**, (175), **6**, (pl. xv, f. 5), *renongensis*, Malay Peninsula, **7**, (176), *dybowski*, W. Africa, **7**, (177), **6**, (pl. xv, f. 3), *tambelanensis*, Tambelan Is., **7**, (182), **6**, (pl. xv, f. 4), *pobeguini*, Congo, **7**, (195), **6**, (pl. xvi, f. 8), spp. n.; *ambiguus*, **7**, (171), *biballensis* (176), *capelloanus* (179), *jaquemonti* (185), nomm. n. RATHBUN, Nouv. Arch. Muséum, Paris.—*P. (Potamonantes) aloysii-sabaudiae* sp. n. Mt. Ruwenzori, NOBILI, Torino, Boll. Musei Zool. Anat., **21**, No. 541 (1)—*P. (Paratelpusa) improvisum* Lanch. (f. 1), *sex-punctatum* sp. n. (f. 2), Malay Peninsula, LANCHESTER, Fasc. Malay. Zool., **3**, (129).—*P. (Paratelpusa) endymion* sp. n. China, DE MAN, Zool. Anz., **30**, (35-36).—*P. (Paratelpusa) faxoni*, Siam (251, pl. xiv, f. 8), *peguensis*, Burma (260, pl. xiv, f. 3), *antongilensis*, Madagascar (265, pl. xii, f. 5), spp. n.; *woodmasoni* nom. n. for *edwardsi* Wood-Mason; RATHBUN, Nouv. Arch. Muséum, Paris, **7**.—*P. (Geothelpusa) sakamotoanus* Liu-Chiu Is., **7**, (206), **6**, (pl. xviii, f. 6), *agassizii* N. E. Australia, **7**, (211), **6**, (pl. xviii, f. 2), *araneus* Indo-China, **7**, (214), *sikkimensis* Sikkim, **7**, (219), **6**, (pl. xviii, f. 7), *perrieri* Congo, **7**, (222), **6**, (pl. xviii, f. 11), spp. n. RATHBUN, Nouv. Arch. Muséum, Paris.—*P. (Geo-*

thelphusa) *ankaraharae*, **sp. n.** Madagascar, NOBILI, Torino, Boll. Musei zool. anat., **21**, No. **532**, (1-4, fig.).

Pseudothelphusa propinqua (280, pl. xv, f. 11), *proxima* Guatemala, (281, pl. xv, f. 10), *venezuelensis* Venezuela, (281, pl. xv, f. 6), *diqueti* Mexico, (284, pl. xvii, f. 8), *simoni* Venezuela, (291), *wymani* Surinam, (291), *nelsoni* Mexico, (293), *similis*, (295, pl. xvii, f. 4), *cobanensis*, (296, pl. xvii, f. 5), *grallator*, (297, pl. xvii, f. 6), *complanata*, (303, pl. xv, f. 3), Guatemala, *angusta* Brazil, (306, pl. xv, f. 7), *buenaventurensis* Colombia, (307), **spp. n.** RATHBUN, Nouv. Arch. Muséum, Paris, **7**.

Telphusa, key to E. African **spp.**, (7), *suprasulcata*, (8, f. 5), *mrogoroensis*, (10), *infravallata*, (12, f. 2), *reichardi*, (13), *bipartita*, (15), *neumanni*, (18, f. 6), *pilosa*, (19), **spp. n.** German E. Africa; *hilgendorfi* Pfeff., (9, f. 3), *platycentron* Hilg., (11, f. 4), HILGENDORF, Deutsch Ost-Afrika Dekapoden.

Thalamita, synopsis of species, NOBILI, Ann. sci. nat. zool., Paris, **4**, (201).—*T. auanensis* **sp. n.** Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish, 1903, **23**, (874, pl. xii, f. 1).—*T. bouvieri*, *seurati*, *minuscula* **spp. n.**, *pilumnoides gatavakensis* var. n., Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (262).—*T. prymna* Herbst *annectans* var. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (418).

Trichodactylus edwardsi nom. n. for *dentatus* Edw., **8**, (40); sub-genus *Valdivia*, *thayeri* Brazil, **8**, (45), **7**, (pl. xviii, f. 11), *tifucanus* Brazil, **8**, (46), **7**, (pl. xix, f. 3), *venezuelensis* Venezuela, **8**, (47), **7**, (pl. xix, f. 10), *faxoni*, **8**, (49), **7**, (pl. xviii, f. 10), *hartii*, **8**, (55), **7**, (pl. xix, f. 9), *bourgeti*, **8**, (56), **7**, (pl. xviii, f. 4), Brazil, **spp. n.** RATHBUN, Nouv. Arch. Muséum, Paris.—*T. (Dilocarcinus) argentinianus* Argentine, **8**, (60), **7**, (pl. xx, ff. 5, 6), *gurupensis* Brazil, **8**, (64), **7**, (pl. xx, f. 7), **spp. n.** RATHBUN, op. cit.

Xanthias flavescens, (855, pl. ix, f. 11), *canaliculatus*, (856, pl. ix, f. 12), **spp. n.** Hawaiian islands, *minutus* Rathb. described, (855, pl. ix, f. 14), RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

Xantho lacunosus **sp. n.** Hawaiian islands, RATHBUN, T.c., (847, pl. viii, f. 6).

Xanthodius biunguis **sp. n.** Hawaiian islands, RATHBUN, T.c., (849, pl. viii, f. 10).

† *Xanthopsis kressenbergensis* figured, AIRAGHI, Milano, Atti soc. ital. sc. nat., **44**, (206, pl. iv, ff. 4, 5).

Zozymus gemmula Dana *ceylonica* var. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (395, pl. i, f. 7).

CATOMETOPA.

Cardisoma armatum Herkl. characters. BOUVIER, Bul. Muséum, Paris, **12**, (497).

Cyclograpsus lophopus Nob. Red Sea, NOBILI, Ann. sci. nat. zool., Paris, **4**, (321, pl. xi, f. 4).

Elamena truncata, South Australian coast, BAKER, Adelaide, S. Aust., Trans. R. Soc., **30**, (112, pl. ii, f. 2).

Eurytium tristani **sp. n.** Costa Rica, RATHBUN, Washington, D.C., Proc. Biol., **19**, (100).

† *Galenopsis schopeni* **sp. n.** Eocene, Italy, CHECCHIA-RISPOLI, Palermo, Giorn. sc. nat. econ., **25**, (320, pl. i, ff. 3, 4),

Gecarcinidae, habits, GRAVIER, Bul. Muséum, Paris, **12**, (498).

Gelasimus tangeri autotomy and regeneration of chela, BAUDOUIN, Rev. sci., Paris, ser. 5, **6**, (293-300); and Ann. sci. nat. zool., sér. 9, **3**, (1-33).

Grapsus strigosus longitarsis Dana described, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (838, pl. viii, f. 1).

Hymenosoma rostratum S. Australian coast, BAKER, Adelaide, S. Aust., Trans. R. Soc., **30**, (114, pl. iii, f. 2).

Litocheira glabra **sp. n.** S. Australian coast, BAKER, T.c., (110, pl. ii, f. 1, pl. iii, f. 3).

Macrophthalmus consobrinus **sp. n.** Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (265).—*M. latreillei* variation, Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (427, pl. ii, f. 3).

Manella **gen. n. (Palicidae) spinipes** **sp. n.** Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish, 1903, **23**, (837, pl. vii, f. 6).

Mertonia **gen. n.** (*Rhizopinae*) *lanka* **sp. n.** Ceylon, LAURIE, T.c., (423, pl. i, ff. 11a, b).

Metaplex hirsutimana **sp. n.** Queensland, GRANT and McCULLOCH, Sydney, N.S.W., Proc. Linn. Soc., **31**, (21, pl. i, f. 3).

Ocypoda rotundata arabica var. **n.** Persian Gulf, NOBILI, Bul. sci., France Belgique, **40**, (152, pl. v, f. 26).

Ostracoteres synopsis of species, NOBILI, Ann. sci. nat. zool., **4**, (299).—*O. spondyli* description, NOBILI, Bul. sci. France Belgique, **40**, (149, pl. v, f. 24, pl. vi, f. 33).

Pachygrapsus marmoratus with two parasites, an Isopod and a *Sacculina*, SMITH, Fauna Neapel, Berlin, **29**, (80, 81).

Palicus fisheri (835), *oahuensis* (836), **spp. n.** Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (pl. vii, ff. 4, 5).—*P. jukesi* Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (430, pl. i, f. 12).

Paranotonyx curtipes Red Sea, NOBILI, Ann. sci. nat. zool., **4**, (298, pl. viii, f. 7).

Pilumnoplax cooki **sp. n.** Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (835, pl. vii, f. 3).

Pinnoteres; synopsis of species (302), *borradalei* nom. **n.** for *tenuipes* Borradaile (306), *maindroni*, (306, pl. viii, f. 8), NOBILI, Ann. sci. nat. zool., **4**.—*P. margaritiferae* **sp. n.** Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (424).—*P. perezii* description, NOBILI, Bul. sci. France Belgique, **40**, (147, pl. v, f. 25).

Plagusia depressa, key to varieties, LAURIE, Rep. Pearl Oyster Fish., **5**, (429).

Ptychognathus; revision of the genus (541-544), *pusillus* Heller (537-541, pl. xvii, ff. 1-5), Christmas Island, DE MAN, London, Proc. Zool. Soc., **1905**.

Pseudorhombila octodentata **sp. n.** Dominica, W. Indies, RATHBUN, Washington, D.C., Proc. Biol. Soc., **19**, (91).

Sarmatium faxoni **sp. n.** Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (841, pl. vii, f. 1).

Sesarma elegans Herkl. Spanish Guinea, NOBILI, Madrid, Mem. soc. esp. hist. nat., **1**, (314, pl. viii, f. 2).—*S. jousseauiei* Nob. Red Sea, NOBILI, Ann. sci. nat. zool., **4**, (323, pl. viii, f. 9).—*S. rhizophorae* (99), *biolleyi* (100), **spp. n.** Costa Rica, RATHBUN, Washington, D.C., Proc. Biol. Soc., **19**.

Trichia australis **sp. n.** S. Australian coast, BAKER, Adelaide, S. Aust., Trans. R. Soc., **30**, (115, pl. iii, f. 1).

OXYSTOMATA.

Structure of *Oxystomata*; KLUNZINGER, Spitzkrabben des Roten Meeres, (vii+91, with 2 pls.).

Calappa gallus, Red Sea, KLUNZINGER, T.c. (61, pl. ii, f. 14); dimorphism, LAURIE, Rep. Pearl Oyster Fish., **5**, (354).

Cryptocnemus crenulatus **sp. n.**, Queensland, GRANT and McCULLOCH, Sydney, N.S.W., Proc. Linn. Soc., **31**, (25, pl. ii, f. 2).—*C. tuberosus* **sp. n.**, Red Sea, KLUNZINGER, Spitzkrabben des Roten Meeres, (79, pl. ii, f. 13).

(*Cymonomops similis* **sp. n.** off Port Jackson, GRANT, Sydney, N.S.W., Proc. Linn. Soc., **30**, (315, pl. x, f. 1).)

Ebalia; synopsis of species (155), *granulata* Rupp. (155, pl. ix, f. 1); *abdominalis* Nob. (157, pl. ix, f. 2); *lacertosa* (159, pl. ix, f. 3), NOBILI, Ann. sci. nat. zool., **4**.—*E. jordani* **sp. n.** Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (889, pl. xv, f. 3).

Ethusa mascarone hawaiiensis subsp. **n.** Hawaiian islands, RATHBUN, T.c. (891, pl. xv, f. 4).

†*Hepatisca distefanoi* **sp. n.** Eocene, Italy, CHECCHIA-RISPOLI Palermo, Giorn. sc. nat. econ., **25**, (323, pl. i, ff. 9-13).

Heteronucia venusta **sp. n.** Tuamotu Is. Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (260).

Leucosia synopsis of species, NOBILI, Ann. sci. nat. zool., **4**, (165).—*L. longifrons* (97), *margaritata* (99), *hilaris* (100, pl. vi, f. 29), descriptions, NOBILI, Bul. sci. France Belgique, **40**.

Lithadia sculpta Haswell *aglypha* var. **n.** Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (358).

Matuta banksii Red Sea, KLUNZINGER, Spitzkrabben des Roten Meeres, (65, pl. ii, f. 12).

Mursia hawaiiensis described (887, pl. xviii, ff. 324), *spinimanus* **sp. n.** Hawaiian islands, (888, pl. xvi, f. 1), RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

Myra; synopsis of species, NOBILI, Ann. sci. nat. zool., **4**, (164).—*M. affinis* description. NOBILI, Bul. sci. France Belgique, **40**, (95).

Nucia; synopsis of species *tuberculosa* description, NOBILI, Ann. sci. nat. zool., **4**, (161, pl. ix, f. 6).—*N. rosea* **sp. n.** Tuamotu Is. Polynesia, NOBILI, Bul. Museum, Paris, **12**, (261).

Nursia jousseaumci, Red Sea, NOBILI, Ann. sci. nat. zool., **4**, (151, pl. ix, f. 4).—*N. mimetica* **sp. n.** Tuamotu Is. Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (261).

Paramithrax sternocostulatus (28, pl. iii, f. 2); *coppingeri* (29, pl. ii, f. 3); synonymy, GRANT and McCULLOCH, Sydney, N.S.W., Proc. Linn. Soc., **31**.

Philyra synopsis of species, NOBILI, Ann. sci. nat. zool., **4**, (168).—*P. adamsi*. Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (364, pl. i, f. 1).—*P. granigera* description. NOBILI, Bul. sci. France Belgique, **40**, (102, pl. vi, f. 30).

Randallia distincta described (890, pl. xvi, ff. 2, 3, *gilberti* **sp. n.** Hawaiian islands (890, pl. xvi, f. 4), RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

†*Ranina reussi*, *bittneri*, figured and compared, AIRAGHI, Milan., Atti soc. ital. sc. nat., **44**, (203, pl. iv, ff. 1, 2).

Tlos angulatus **sp. n.** Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (889, pl. xvi, f. 5).—*T. havelocki* **sp. n.** Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (357, pl. i, f. 2).

DROMIACEA.

Conchocetes andamanicus. Ceylon, characters, LAURIE, Rep. Pearl Oyster Fish., **5**, (353).

Cryptodromia granulata description, NOBILI, Ann. sci. nat. zool., **4**, (147, pl. ix, f. 3).

Dicranodromia; characters of species, BOUVIER, Bul. Muséum, Paris, **12**, (481, 482).

Dromia intermedia **sp. n.** Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (351).

(*Latreillopsis petterdi* **sp. n.** off Port Jackson. GRANT, Sydney, N.S.W., Proc. Linn. Soc., **30**, (317, pl. x, f. 2).)

INCERTAE SEDIS.

Cryptochirus dimorphus **sp. n.** (*Hapalocarcinidae*) Andaman Is., HENDERSON, Ann. Mag. Nat. Hist., London, **18**, (214 pl. viii).

†*Tetracarcinus* **gen. n.** Systematic position not indicated by describer, *subquadratus* **sp. n.** Cliffwood clay, New Jersey, WELLER, J. Geol., Chicago, Ill., **13**, (328).

Anomura.

GALATHEIDEA.

Ethusa japonica **sp. n.** Japan, DO-FLEIN. Verh. D. Zool. Ges. Leipzig, **16**, (71).

Galatheidæ; habits, GALLOWAY and FLEURE. Rep. Brit. Ass., **1906**, (608-610).

Galathea; key to Australian, GRANT and McCULLOCH, Sydney, N.S.W., Proc. Linn. Soc., **31**, (43-52, pl. iv); synopsis of species.—*G. humilis* (124), *aegyptiaca* (126, pl. vii, f. 3), *brevimana*, *longimana* (128), descriptions, NOBILI, Ann. sci. nat. zool., **4**.—*G. intermedia* synonymy, NORMAN and SCOTT, Crustacea of Devon and Cornwall (11).—*G. megalochira* **sp. n.** Tuamotu Is. Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (260).—*G. strigosa* structure of hepato-pancreas, GUIEYSSE, Paris, Bul. soc. philom., **8**, (97-102).—*G. whiteleggii* **sp. n.**, Port Jackson, Australia, GRANT and McCULLOCH, Sydney, N.S.W., Proc. Linn. Soc., **31**, (45, pl. iv, f. 2).

Munida gregaria compared with *subrugosa*, LAGERBERG, Schwed. Südpolar-Exped., **5**, Lief. 7, (7-10, pl. i, 4-7).—*M. japonica* (221), *aleocki* **sp. n.** (222). Ceylon, SOUTHWELL, Rep. Pearl Oyster Fish., **5**.

Pachycheles ornatus **sp. n.** San Thomé Id., BOUVIER, Bul. Muséum, Paris, **12**, (494).—*P. sculptus* description.

NOBILI, Bul. sci., France, Belgique, **40**, (67).

Petrolisthes; synopsis of species, NOBILI, Ann. sci. nat. zool., **4**, (129).—*P. patagonicus* commensal with *Asteracanthion helianthus*, at Valparaiso, BOUVIER, Paris, Bul. soc. ent. 1906, (28, 29).

Porcellana hornelli sp. n. (*Porcellanidae*). Ceylon, SOUTHWELL, Rep. Pearl Oyster Fish., **5**, (218, f. 1).—*P. inaequalis* description, NOBILI, Bul. sci. France Belgique, **40**, (74, pl. v, f. 18).

Polyonyx; synopsis of species (136), *pedalis* Nob. (137, pl. viii, f. 3); *denticulatus*, Pauls. (138) descriptions; NOBILI, Ann. sci. nat. zool., **4**.—*P. paucidens* (70, pl. v, f. 16), *pugillator* (71, pl. v, f. 17, pl. vi, f. 28), descriptions, NOBILI, Bul. sci. France Belgique, **40**.

PAGURIDEA.

Anapagurus polynesiensis sp. n. Tuamotu Is., NOBILI, Bul. Muséum, Paris, **12**, (260).—*A. bonnierii* description, NOBILI, Bul. sci. France Belgique, **40**, (89, pl. v, f. 19).

Calcinus rosaceus description, NOBILI, T.c. (84, pl. v, f. 21).

Clibanarius; synopsis of Red Sea species, NOBILI, Ann. sci., nat. zool., **4**, (115).

Caenobita rufescens habits, GRAVIER, Bul. Muséum, Paris, **12**, (499); compared with *C. rugosa*, BOUVIER, T.c. (493).

Diogenes; synopsis of species, NOBILI, Ann. sci. nat. zool., **4**, (118).—*D. capricornus* sp. n. Queensland, GRANT and McCULLOCH, Sydney, N.S.W., Proc. Linn. Soc., **31**, (35, pl. iii, f. 3).—*D. pugillator* synonymy, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (9).

Eupagurus caricarpus Pauls. description, NOBILI, Ann. sci. nat. zool., **4**, (123).—*E. forceps* claws figured, LAGERBERG Schwed. Südpolar Exped., **5**, Lief. 7, (2-4, pl. i, ff. 1-33).—*E. hedleyi* nom. n. = *E. kirkii*, Miers, GRANT and McCULLOCH, Sydney, N.S.W., Proc. Linn. Soc., **31**, (37).—*E. maorus* sp. n. Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (259).

(*Paguristes aciculatus* sp. n. off Port Jackson, GRANT, Sydney, N.S.W., Proc.

Linn. Soc., **30**, (319, pl. xi, f. 3).—*P. jousseaumei perspicax* var. n. Persian gulf, NOBILI, Bul. sci., France, Belgique, **40**, (87).—*P. mauritanica* sp. n. Coast of N. W. Africa, BOUVIER, Bul. Muséum, Paris, **12**, (186, f. 1).

Pagurus; synopsis of species, NOBILI, Ann. sci. nat. zool., **4**, (120).

Paralomis granulosa description, LAGERBERG, Schwed. Südpolar-Exped., **5**, Lief. 7, (14-17, pl. i, f. 10).

Troglopagurus; synopsis of species (80), *persicus* description (78), NOBILI, Bul. sci. France Belgique, **40**.

Macrura.

Larvae of *Macrura*; COUTIÈRE, Paris, C.-R. Acad. sci., **142**, (847-849); NOBILI, Bul. sci. France, Belgique, **40**, (35).

NEPHROPSIDEA.

Astacus; extermination by disease, restocking rivers, DROUIN DE BOUVILLE, Nancy, Bul. soc. sci., **7**, (28-132).—*A. fluviatilis* incrusted with a Polyzoon, ŁOMNICKI, Kosmos, Lwów, **31**, (249-256); growth, DRÖSCHER, Fischereiztg. Neudamm, **9**, (113-117, 133-137).—(*A. fluviatilis* var. *torrentium* colour variety, BOUVIER, Paris, Bul. soc. ent., **1904**, (250-255).)—†*A. antiquus* sp. n. Upper Wealden Germany; HARBORT, Berlin, Abh. geol. Landesanst., **45**, (20, pl. i, f. 1 and pl. xi, f. 3).

Cambarus; anatomy of annulus ventralis, ANDREWS, Wood's Holl, Mass. Mar. Biol. Lab. Bull., **10**, (122-137); and Boston, Mass., Proc. Soc. Nat. Hist., **32**, (427-180, 1 pl.).—*C. spp.*, descriptions, local distribution in Pennsylvania. ORTMANN, Pittsburg Pa. Mem. Carnegie Mus., **2**, (343-524, pls. A, B, 39-43).—*C. affinis*, egg-laying habits, ANDREWS, Amer. Nat. Boston, Mass., **40**, (343-356).—*C. (Procambarus) pilosimanus* sp. n. British Honduras (6), *cubensis* Sauss., male genitalia (11), ORTMANN, Washington, D.C., Proc. Acad. Sci., **8**.—*C. wiegmanni* description, ORTMANN, T.c. (15).

(*Cambarus monongalensis* sp. n. Pennsylvania, ORTMANN. (395-398), Pittsburg, Pa., Ann. Carnegie Mus., **3**, 1905.)

Enoplometopus occidentalis described, RATHBUN, Washington, D.C., Bull. U.S. Com. Fish, 1903, **23**, (900, pl. xvii, f. 2).

†*Eryma sulcata* **sp. n.** Lower Cretaceous Germany, HARBORT, Berlin, Abh. geol. Landesanst. **45**, (15, pl. i, f. 11, pl. xi, f. 4).

†*Hoploparia aspera* **sp. n.** Upper Wealden Germany, HARBORT, T.c. (17, pl. ii, ff. 5, 6).—†*H. triboleti* **sp. n.** Lower Cretaceous Crimea, BORISSIAK, St. Petersburg, Bull. Com. géol., **23**, (412, 420, pl. xiii, f. 1).—*H. granulosa* in the Ardennes; COLLET, Reims, Bul. soc. sci. nat., **12**, (32–33, pl.).

Homarus americanus; rate of growth, HADLEY, **2**, Wood's Holl, Mass., Mar. Biol. Lab. Bull., **10**, (233–241).—*H. gammarus*, with symmetrical chelae, CALMAN, London, Proc. Zool. Soc., **1906**, (633, f. 110).

Nephrops norvegicus abnormal claw, PATTERSON, Norwich, Trans. Nat. Soc., **8**, (319, pl.).

†*Palaeno dentatus* described; BORISSIAK, St. Petersburg, Bull. Com. géol., **23**, (416, 422, pl. xiii, f. 2).

Paracambarus **subg. n.** (1), *paradoxus* **sp. n.** Mexico (3), ORTMANN, Washington, D.C., Proc. Acad. Sci., **8**.

†*Pseudoglyphca etalloni* description, MÉCHIN, Nancy, Bul. soc. sci., **6**, (29–31, pl. i).

Thaumastocheles zaleucus, male described, DOFLEIN, Zool. Anz., **30**, (521–525).

ERYONIDEA.

Eryoneicus indicus hawaiiensis **subsp. n.** Hawaiian islands, RATHBUN, Washington, D.C., Bull. U.S. Com. Fish., 1903, **23**, (900).

Polycheles snyderi (898, pl. xxiv, f. 9), *asper* (899, pl. xxiv, f. 11), **spp. n.** Hawaiian islands, RATHBUN, T.c.

LORICATA.

†*Meyeria ornata* described, (10, pl. i, f. 2), *rapax* **sp. n.** (11, pl. i, f. 12, pl. ii, ff. 1–4, pl. iii, ff. 1, 2, pl. xi, ff. 1, 2). Lower Cretaceous, Germany, HARBORT, Berlin, Abh. geol. Landesanst. **45**.

Panulirus japonicus, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish. 1903, **23**, (897, pl. v).—*P. regius*, Spanish Guinea, NOBILI, Madrid, Mem. Soc. esp. hist. nat., **1**, (300, pl. viii, f. 1).

Parribacus papyraceus **sp. n.** Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (897, pl. xviii, f. 5).

Scyllarides brasiliensis **sp. n.** Brazil, RATHBUN, Washington, D.C., Proc. Biol. Soc., **19**, (113).

Scyllarus nobilii, description, NOBILI, Bul. sci. France Belgique, **40**, (56, pl. iv, f. 15, pl. vi, f. 27).—*S. sieboldi*, new to South Pacific, McCULLOCH, Sydney, N.S.W., Rec. Austr. Mus., **6**, (231).

THALASSINIDEA.

Axiopsis synopsis of species (91), *aethiopica* Red Sea, NOBILI, Ann. sci. nat. zool., **4**, (93, pl. vi, f. 1).

Axius pailoloensis (893, fig. 49), *spinosisimus* (894, fig. 50), *rudis* (894, fig. 51) **spp. n.** Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

Callianassa, synopsis of species (100), *joussemaei* (101, pl. vi, f. 2), *calmani* (104, pl. v, f. 2), *bouvieri* (105, pl. vi, f. 3), *gravieri* (107, pl. vi, f. 4), *rosae* (108, pl. vii, f. 2), *coutierei* (110, pl. vii, f. 1), Red Sea, NOBILI, Ann. Sci. nat. zool., **4**.—*C. articulata* **sp. n.** Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (892, fig. 47).—*C. ceramica* **sp. n.** Victoria, FULTON and GRANT, Melbourne, Proc. R. Soc., Vic., **19**, (12–14, pl. v).

Eiconaxius asper **sp. n.** Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (895, f. 52).

Jaxea nocturna synonymy, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (12).

Paraxius tridens **sp. n.** Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (895, fig. 53).

Upogebia, synopsis of species, NOBILI, Ann. sci. nat. zool., **4**, (97).—*U. hirtifrons* (61, pl. iv, f. 13), *osiridis* (62, pl. iv, f. 14), descriptions, NOBILI, Bul. sci. France Belgique, **40**.

CARIDEA.

Acantheephyra; table of species, *purpurea*, *debilis*, synonymy, characters, KEMP, Fish. Ireland Sci. Invest., 1905, **1**, (1-28, pls. i, ii).—*A. purpurea* A. M. Edw. = *A. parva* Cout., stages of growth, COUTIÈRE, Bul. Mus., Monaco, No. **70** (12-20); description (254, pl. iv, ff. 12-15, pl. v, f. 1), *rectirostris* **sp. n.** Straits of Messina (260, pl. v, ff. 1-17), RIGGIO, Natural. sicil, **17**.

Aegeon brendani **sp. n.** Irish coast, KEMP, Ann. Mag. Nat. Hist., London, **17**, (299).

Alpheopsis haugi **sp. n.** Ogowe district, COUTIÈRE, Bul. Muséum, Paris, **12**, (378-380, ff. 1-2).

Alpheus aculeipes triphopus var. **n.**; *euchiroides*, *hoplites* **spp. n.** Tuamotu Is., Polynesia, NOBILI, T.c. (257).—*A. bucephaloides* (29), *alecyone* (32), *persicus* (33), descriptions, NOBILI, Bul. sci., France Belgique, **40**.—*A. macrocheles* synonymy, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (16).

Amphipalaemon seurati **sp. n.** Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (259).

Anchistia elegans (52), *edwardsi* (53), descriptions, NOBILI, Ann. sci. nat. zool., **4**.

Anchistioides compressus, description, NOBILI, T.c. (54).

Anchistus Borr. = *Tridacnocraris* Nob., *niersi* description, NOBILI, Bul. sci. France Belgique, **40**, (48).

Ancyllocaris aberrans description, NOBILI, T.c. (52, pl. iv, f. 9).

Angasia armata (42), *erythraea* (44), descriptions, NOBILI, Ann. sci. nat. zool., **4**.

†*Anthrapalaemon grossarti*, Carboniferous. Staffordshire, WARD, Stone, Rep. N. Staff. F. Cl., **40**, (110).

Arete maruteensis **sp. n.** Gambier Is., Polynesia, COUTIÈRE, Bul. Muséum, Paris, **11**, (18).

Athanas nitescens Leach, postembryonal development, SARS, Arch. Math. Naturv., Kristiania, **27**, No. 10, (1-29, pl. i-iv).

Atyaephyra desmarestii, variation statistically examined, BROŽEK, Prag,

SitzBer. Böhm. Ges. Wiss., **1905**, No. 1, (1-69).; (in N. Africa, BOUVIER, Paris, Bul. soc. ent., **1903**, (245).)

Atyella **gen. n.** (*Atyidae*) (201), *brevirostris* (201, pl. xiv, ff. 57-64) **sp. n.** Lake Tanganyika, CALMAN, London, Proc. Zool. Soc., **1906**.

Bithynis grandimanus description, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (923, pl. xx, f. 5).

Brachycarpus; synopsis of species, *advena*, Red Sea, NOBILI, Ann. Sci. Nat. zool., **4**, (75-77, pl. iv, f. 1).

Caridella **gen. n.** (*Atyidae*) (198), *cunningtoni* (199, pl. xiii, ff. 45-52), *minuta* (200, pl. xiii, ff. 53-56), **spp. n.** Lake Tanganyika, CALMAN, London, Proc. Zool. Soc., **1906**.

Caridina harmandi **sp. n.** Seas of Japan, BOUVIER, Bul. Muséum, Paris, **12**, (483).—*C. kilimae* **sp. n.** (35), *togoënsis stuhlmanni* var. **n.** (35), *wyckii* var. *gracilipes* (36), figured, HILGENDORF, Deutsch Ost-Afrika Dekapoden.—*C. nilotica* var. *gracilipes*, synonymy; Lakes Nyasa and Victoria Nyanza, CALMAN, London, Proc. Zool. Soc., **1906**, (189).

Chlorotocus crassicornis, synonymy, description, RIGGIO, Naturalista Sicil., **18**, 1906, (151-160).

Conchodytes; synopsis of species (66), *melegrinae* (66, pl. iii, f. 5), *biunguiculata*, descriptions, NOBILI, Ann. sci. nat. zool., **4**.

Coralliocraris, synopsis of species (55), *C. hecate* (58, pl. iii, f. 2), *analitica* (60, pl. iii, f. 3), *rhodope* (61, pl. ii, f. 8), Red Sea, NOBILI, T.c.—*C. quadridentata* (920, pl. xxiv, f. 1), *truncata* (920, pl. xxiv, f. 2), **spp. n.**, Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

Coralliocrangon perrieri, Red Sea, NOBILI, Ann. sci. nat. zool., **4**, (82, pl. iv, f. 2).

Crangon consobrinus (401), *cassiope* (402), **spp. n.**, Japan, DE MAN, Ann. Mag. Nat. Hist., London, **17**.—*C. vulgaris*, albinism, NINNI, Boll. Naturalista, Siena, **26**, (77).

Egeon orientalis, description, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (911, pl. xxiii, f. 3).

Gnathophyllum tridens sp. n., Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (259).

Harpilius; key to species (47), *gerlachei* (45, pl. iv, f. 10), description, NOBILI, Bul. sci. France Belgique, **40**.

Heterocarpus ensifer, described (917, pl. xxi, f. 7), *signatus* sp. n., Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

Hippolysmata acicula (912, pl. xxiv, f. 6), *paucidens* (913, pl. xxiv, f. 4), spp. n., Hawaiian islands, RATHBUN, T.C. H. *vittata* (46, pl. 2, f. 4), *multis-cissa* (47, pl. ii, f. 5), Red Sea, NOBILI, Ann. sci. nat. zool., **4**.

Hippolyte magellanicus, to *Nauticaris*, CALMAN, Ann. Mag. Nat. Hist., **17**, (31).—*H. prideauxiana*, synonymy, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (17).

Latreutes, synonymy, CALMAN, Ann. Mag. Nat. Hist., **17**, (33).—*L. mucronatus multidentatus* var. n., Red Sea, NOBILI, Ann. sci. nat. zool., **4**, (41, pl. ii, p. 3).—*L. pygmaeus* (37, pl. iii, f. 4), *gravieri* (39, pl. iii, f. 5), *phyceologus* (40, pl. ii, f. 6), descriptions, NOBILI, Bul. sci. France Belgique, **40**.

Leontocaris lar sp. n., Irish coast, KEMP, Ann. Mag. Nat. Hist., **17**, (299).

Leptochela aculeocaudata, description, NOBILI, Ann. sci. nat. zool., **4**, (28).

Limnocaridina retiaris (192, pl. xi, ff. 2-8), *parrula* (193, pl. xi, ff. 9-14), *similis* (195, pl. xii, ff. 15-22), *latipes* (196, pl. xii, ff. 23-29), *socius* (196, pl. xii, ff. 30-37), *spinipes* (197, pl. xiii, ff. 38-44), spp. n., Lake Tanganyika, CALMAN, London, Proc. zool. Soc., **1906**.

Lysmata selicaudata Risso, new to Atlantic Ocean, PÉREZ, Bordeaux, Actes soc. linn., **60**, (Proc.-verb., xli-xlii).

Merhippolyte australis vide *Nauticaris marionis*.

Nauticaris marionis = (*Merhippolyte australis* Hodgson), CALMAN, Ann. Mag. Nat. Hist., **17**, (31).

Nematocarcinus tenuirostris, description, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (926, pl. xxiii, f. 6).

Nikoides danae, description, NOBILI, Ann. sci. nat. zool., **4**, (79, pl. v, f. 1).

Oplophorus foliaceus sp. n., Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (922, pl. xx, f. 8).

Pandalus borealis, statistics of capture in Kristiania fiord, WOLLEBOEK, Bergen, Norsk Fisket., **25**, (471-480, map).—*P. martius* (277, pl. ii, ff. 8-11), *heterocarpus* (280), descriptions, RIGGIO, Natural. sicil., **17**.—*P. ocellus subtilirostris* var. n., Mediterranean, RIGGIO, op. cit. **18**, (169).

Palaemon; key to E. African spp. (27), *idae idella* var. n. (29). German E. Africa, HILGENDORF, Deutsch Ost-Afrika Dekapoden.—*P. (Parapalaemon) aemulus* sp. n., Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (258).—*T. debilis* (924, pl. xxii, f. 1), *pacificus* (924, pl. xxii, f. 3), descriptions; *pandaloides* sp. n., Hawaiian islands (924, pl. xxiv, f. 4), RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.—*P. (Parapalaemon) hendersoni* sp. n., Darjeeling, DE MAN, Ann. Mag. Nat. Hist., **17**, (405).—*P. lar* var.? Christmas Island, DE MAN, London, Proc. Zool. Soc., **1905**, (544-550, pl. xviii, ff. 7-19).—*P. moorei*, Lake Tanganyika, CALMAN, op. cit. **1906**, (188, pl. xi, ff. 1, 1a).—*P. (Eupalaemon) neglectus* nom. n. for *P. acutirostris* de Man and *P. equidens* de Man, DE MAN, Leiden, Notes Mus. Jentink, **26**, (201-206, 1 pl.).—*P. (Eupalaemon) reunionnensis* Hoffmann, a variety of *P. lar* Fabr., DE MAN, L.C.—*P. xiphias*, structure of hepato-pancreas, GUIESSE, Paris, Bul. soc. philom., **8**, (97-102).

Palaemonella bimaculata (71, pl. iii, f. 6), *gracilis* (73), descriptions, NOBILI, Ann. sci. nat. zool., **4**.—*P. laccadivensis*, description, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (925, pl. xxii, f. 2).

Palaemonetes eigenmani, anatomy of degenerate eyes, PIKE, Wood's Holl, Mass., Mar. Biol. Bull., **11**, (267-276).

Pandalus sindoi (915, pl. xxi, f. 4), *brevis* (916, pl. xxi, f. 3), *exiguus* (916, pl. xxi, f. 2), *spinidorsalis* (917, pl. xxi, f. 5), spp. n., Hawaiian islands; ? *ocellus* Bate description, (915, pl. xxi, f. 1), RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

Paschocaris paschalis, description, NOBILI, Ann. sci. nat. zool., **4**, (38).

Pasiphaca hawaiiensis (927, pl. xxiii, f. 4), *truncata* (928, pl. xxiii, f. 5), *flagellata* (928, pl. xxiii, f. 2), **spp. n.** Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

Periclimenes brevinaris nom. n. for *borradalei* Nob. (42, pl. iii, f. 7), *potina* (44, pl. iii, f. 8), descriptions, NOBILI, Bul. Sci. France, Belgique, **40**.—*P. petithouarsi denticulata* var. n., Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (257).—*P. pusillus* **sp. n.**, Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (921, pl. xxiv, f. 7).—*P. soror*, Red Sea, NOBILI, Ann. sci. nat. zool., **4**, (50, pl. ii, f. 6).

Platybema, synonymy, CALMAN, Ann. Mag. Nat. Hist., **17**, (33).

Pontonia pinnae, description, NOBILI, Bul. sci. France Belgique, **40**, (49, pl. iv, f. 11).

Pontophilus modumanuensis **sp. n.**, Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (910, f. 63).

Processa coutierei (78, pl. 4, f. 3), *aequimana* (79), descriptions, NOBILI, Ann. sci. nat. zool., **4**, (78, pl. iv, f. 3).

Psathyrocaris hawaiiensis **sp. n.**, Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (928, fig. 79).

Retrocaris serrata **sp. n.**, Persian Gulf, NOBILI, Bul. sci. France Belgique, **40**, (54, pl. iv, f. 12).

Saron gibberosus, synonymy, description, NOBILI, T.c. (35).

Sclerocrangon, larval forms, WOLLEBOEK, Bergens Mus. Aarb., **1906**, No. 11, (1-9, 2 pls.).

Spirontocaris, synonymy, &c., CALMAN, Ann. Mag. Nat. Hist., **17**, (32).—*S. kauaiensis* (913, pl. xxiv, f. 5), *profunda* (914, pl. xxiv, f. 10), **spp. n.**, Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.—*S. rectirostris*, male (403), *propugnatrix*, *aleimede* **spp. n.**, (404), Japan, DE MAN, Ann. Mag. Nat. Hist., **17**.

Stegopontonia **gen. n.**, (*Pontoniidae*) *commensalis* **sp. n.**, Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (258).

Stylodactylus discissipes, description, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (927, pl. xxiii, f. 1).

Synalpheus brachyceros **sp. n.** Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (256).—*S. triungiculatus* (25), *tumidomanus* (27), descriptions, *paulsoni* **sp. n.**, Persian Gulf (28), NOBILI, Bul. sci. France Belgique, **40**.

Systellaspis debilis = *bourieri* Cout., stages of growth, COUTIÈRE, Bul. Mus., Monaco, No. **70**, (1-12).

Trachycaris **gen. n.** (*Hippolytidae*) for *Platybema rugosus* Bate, CALMAN, Ann. Mag. Nat. Hist., **17**, (33).

Typton bouvieri, Red Sea, NOBILI, Ann. sci. nat. zool., **4**, (67, pl. iii, f. 11).

Virbius? *orientalis* (33), *jactans* (37, pl. ii, f. 2), Red Sea, NOBILI, T.c.

PENAEIDEA.

Acetes erythraeus, Red Sea, NOBILI, Ann. sci. nat. zool., **4**, (23, pl. i, f. 5).

Amalopenaeus elegans, description, RIGGIO, Natural. Sicil., **17**, 134, pl. ii, ff. 13-20).

Aphareus inermis, description, NOBILI, Ann. sci. nat. zool., **4**, (22).

(*Archipenaeopsis* **gen. n.** for *Penaeopsis vestitus*, BOUVIER, Paris, C.-R. Acad. sci., **141**, (747).)

Atypopencus compressipes, Indian Seas, ALCOCK, Cat. Ind. Decapod. Crust., Part 3, fasc. 1, (45, pl. ix, ff. 29, 29a).

Benthescymus, compared with *Gennadas*, BOUVIER, Bul. Mus. Monaco, No. **80**, (1-9); Paris, C.-R. Acad. sci., **142**, (749).—*B. laciniatus* **sp. n.**, Hawaiian Islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (906, pl. xix, f. 3).

Gennadas, vertical distribution, BOUVIER, Paris, C.-R. Acad. sci., **142**, (686-690). T.c. (746-749).—*G. alicei*, Tropical and sub-tropical Atlantic, *scutatus*, West Atlantic (9, ff. 5, 8, 10, 13), *talismani*, Cape Verde Islands, *tinayrei*, Sargasso Sea, Azores, and Cape Sparte (10, ff. 14, 15) **spp. n.**, BOUVIER, Bul. Mus., Monaco, No. **80**; Paris, C.-R. Acad. sci., **142**, (748, 749).—(*G. brevis-rostris* **sp. n.**, Santa Lucia, BOUVIER, op. cit.

141, (748).)—*G. parvus* Sp. Bate = *Ama-
loopenaeus elegans* Sm., KEMP, Fish.
Ireland, Sci. Invest., 1905, **5**, (7).—
G. propinquus **sp. n.**, Hawaiian Islands,
RATHBUN, Washington, D.C., Bull. U. S.
Com. Fish., 1903, **23**, (907).

Haliporus, characters, distribution,
affinis (4 and 8), *carinatus* (4 and 10),
tropicalis (4 and 10) **spp. n.**, Atlantic,
BOUVIER, Bul. Mus. Monaco, No. **81**.—
H. androgynus **sp. n.**, Coast of
W. Africa, BOUVIER, Bul. Muséum,
Paris, **12**, (253–256); Bul. Mus., Monaco,
No. **81**, (3, 8).

Lucifer hansenii, Red Sea, NOBILI,
Ann. sci. nat. zool., **4**, (25, pl. ii, f. 1).

Metapenaeus cognatus (14, pl. i, f. 1),
stebbingi (15, pl. i, f. 2), *consobrinus* (17,
pl. i, f. 3), *vaillanti* (18, pl. i, f. 4), Red
Sea, NOBILI, T.c.—*M. monoceros* (18,
pl. iii, ff. 7–7c), *affinis* (20, pl. iii,
ff. 8–8b), *dobsoni* (21, pl. iii, ff. 9–9d),
brevicornis (22, pl. iv, ff. 10–10b), *lysia-
nassa* (23, pl. iv, ff. 11–11c), *coniger*
(pl. iv, ff. 12–12b), var. *andamanensis*
(27, pl. iv, f. 13), *stridulans* (27, pl. v,
ff. 14–14d), *mogiensis* (29, pl. v,
ff. 15–15b), Indian Seas, ALCOCK, Cat.
Ind. Decapod Crust., Part 3, fasc. 1.—
M. perlarm, description, NOBILI, Bul.
sci. France Belgique, **40**, (17–21, pl. ii,
f. 1).—*M. velutinus* (903, pl. xx, f. 5),
mogiensis (904, pl. xx, f. 3), *richtersi*
(904, pl. xx, f. 2), described, *evermanni*
sp. n., Hawaiian Islands, (904, pl. xx,
f. 1), RATHBUN, Washington, D.C., Bull.
U. S. Com. Fish., 1903, **23**.

(*Neopenaeopsis* **gen. n.** for *Penaeopsis*
paradoxus, BOUVIER, Paris, C.-R. Acad.
sci., **141**, (747).)

Parapeneopsis styliifera (36, pl. vii,
f. 21), *coromandelica* var. n. (37, pl. vii,
ff. 20–20c), *sculptilis* (37, pl. vii, 22–22d),
var. *hardwickii* (39), *cultrirostris* var. n.
(39, pl. vii, f. 23), *uncta* (39, pl. viii,
ff. 25–25a), *maxillipedo* (40, pl. viii,
ff. 24–24b), *nana* (41, pl. viii, ff. 26–26b),
aeclivirostris (pl. viii, ff. 27–27a), Indian
Seas, ALCOCK, Cat. Ind. Decapod Crust.,
Part 3, fasc. 1.—(*P. rathbuni* **sp. n.**,
Antilles, BOUVIER, Paris, C.-R. Acad.
sci., **141**, (748).)

Parapeneus fissurus (31, pl. v, ff. 16–
16b), *investigatoris* (32, pl. vi, ff. 17–17c),
longipes (pl. vi, ff. 18–18b), *rectacutus*
(33, pl. vi, ff. 19–19b), Indian Seas,
ALCOCK, Cat. Ind. Decapod Crust. Part
3, fasc. 1.

(*Parartemesia* **gen. n.** for *Artemesia*
carinata and *tropicalis*, BOUVIER, Paris,
C.-R. Acad. sci., **141**, (747–748).)

Pencus, characters (4), *monodon* (8,
pl. i, ff. 1–1b), *semisulcatus* (10, pl. i,
f. 2), *indicus* (12, pl. i, ff. 3–3a), var.
merguiensis (13, pl. ii, f. 4), var.
penicillatus (13 pl. ii, f. 5), *canaliculatus*
(14, pl. ii, ff. 6a–c), Indian Seas, ALCOCK,
Cat. Ind. Decapod Crust. Part 3, fasc. 1.
—*P.*, synopsis of species (6), *longipes*,
description (20), NOBILI, Ann. sci. nat.
zool., **4**.—*P. marginalis*, description,
RATHBUN, Washington, D.C., Bull. U. S.
Com. Fish., 1903, **23**, (902, pl. xix,
f. 2).

Sergestes arachnipodus (183, pl. iv,
ff. 1–7), *robustus* (215, pl. ii, ff. 8–12),
descriptions; RIGGIO, Natural. sicil. **17**.
—*S. prehensilis* description, NOBILI,
Bul. sci. France Belgique, **40**, (22, pl.
ii, ff. 2, 3).

Sieyonia laevis, figured, (908, pl. xx,
f. 7), *longicauda* **sp. n.**, Hawaiian
Islands (908, pl. xx, f. 6), RATHBUN,
Washington, D.C., Bull. U. S. Com.
Fish., 1903, **23**.—(*S. stimpsoni* **sp. n.**,
Antilles, BOUVIER, Paris, C.-R. Acad.
sci., **141**, (748).)

Trachypeneus asper, Indian Seas,
ALCOCK, Cat. Ind. Decapod. Crust.,
Part 3, fasc. 1 (43, pl. ix, ff. 28–28b).

STENOPIDEA.

(*Richardina inermis* **sp. n.**, Santa
Lucia, BOUVIER, Paris, C.-R. Acad. sci.,
141, (749).)

Spongicola henshawi **sp. n.**, Hawaiian
Islands, RATHBUN, Washington, D.C.,
Bull. U. S. Com. Fish., 1903, **23**, (901, pl.
xxiv, f. 8).

INCERTAE SEDIS.

Amphiplectus, position doubtful, not
Hippolytidae, CALMAN, Ann. Mag. Nat.
Hist., **17**, (33).

SCHIZOPODA.

Amblyops sarsi Ohlin to *Dactylam-
blyops*, HOLT and TATTERSALL, Ann.
Mag. Nat. Hist., **17**, (9).

Boreomysis rostrata **sp. n.**, Atlantic,
ILLIG, Zool. Anz., **30**, (196).

Chaleophthalmus gen. n., (*Mysidae*)
latisquamosus sp. n., Sumatra, ILLIG,
Zool. Anz., **30**, (200).

Chlamydopleon inermis sp. n., Indian
Ocean, ILLIG, T.c. (209).

Dactylamblyops gen. n., (*Mysidae*) (8),
hodgsoni sp. n., Antarctic (9), HOLT and
TATTERSALL, Ann. Mag. Nat. Hist., **17**.

Dactylerythropterus arcuatus sp. n., S.
Indian and S. Atlantic Oceans, ILLIG,
Zool. Anz., **30**, (199).

Erythropterus brevisquamosus sp. n.,
Aden, ILLIG, T.c. (197).

Euchaetomera glyphidophthalmica,
limbata spp. n., Atlantic, ILLIG, T.c.
(201–203).

Euphausia, description, *E. mülleri*,
description, NORMAN and SCOTT, Crusta-
cea of Devon and Cornwall, (22).—*E. superba*, Dana synonymy, characters
(2 and 3), *crystallorophias* (3), *triacantha*
(4) spp. n., Antarctic, HOLT and TATTER-
SALL, Ann. Mag. Nat. Hist., **17**.—*E.*
mülleri, Claus synonymy, HOLT and
TATTERSALL, Fish. Ireland Sci.
Invest., 1904, **5**, (6).—*E. intermedia*,
description, RIGGIO, Natural. sicil., **17**,
(118, pl. ii, ff. 3–6).—*E. latifrons*, de-
scription, TATTERSALL, Rep. Pearl Oyster
Fish., **5**, (161, pl. i, ff. 1, 2).

Gnathophausia, key to species (27),
zoëa, larva (48), *scapularis* sp. n. (50,
pl. ii, f. 3), Californian Coast, ORTMANN,
Washington, D.C., Smithsonian Inst.,
U. S. Nation. Mus. Proc., **31**.—*G. dory-*
phora (227), *bidentata* (229), Indian
Ocean, *cristata* (319), Mentawai Basin,
spp. n., ILLIG, Zool. Anz., **30**.

Hansenomysis antarctica sp. n., Ant-
arctic, HOLT and TATTERSALL, Ann. Mag.
Nat. Hist., **17**, (6).

Haplostylus erythraeus, Ceylon,
TATTERSALL, Rep. Pearl Oyster Fish., **5**,
(165).

Katerythropterus dactylops sp. n., Atlantic,
etc., ILLIG, Zool. Anz., **30**, (198).

Leptomysis capensis sp. n., Agulhas-
bank, ILLIG, T.c. (206).

Longithorax gen. n., (*Mysidae*), *simi-*
lerythropterus sp. n., Amirante Is., ILLIG,
T.c. (200).

Lophogaster spinosus sp. n., West
Indies, ORTMANN, Washington, D.C.,
Smithsonian Inst., U. S. Nation. Mus.
Proc., **31**, (26, pl. i, f. 1).

Mastigophthalmus gen. n., (*Mysidae*)
zurstrasseni sp. n., S. Atlantic and
Indian Ocean, ILLIG, Zool. Anz., **30**,
(203).

Meganyctiphanes norvegica in Tuscan
Archipelago, MASI, Genova, Ann. Mus.
Civ., **42**, (149–156).

Mesomysis volgensis sp. n., Upper
Volga R., TRETIAKOW, St. Peterburg,
Trav. Soc. nat., **37**, (128–131).

Metamysidella gen. n., (*Mysidae*)
kerguelensis sp. n., Kerguelen, ILLIG,
Zool. Anz., **30**, (210).

Mysideis microps sp. n., Mouth of the
Congo, ILLIG, T.c. (205).

Mysidetis gen. n., *Mysidetinae* sub-
fam. n., *farrani* sp. n., N.E. coast of
Ireland, HOLT and TATTERSALL, Fish.
Ireland Sci. Invest., 1904, **5**, (39–44,
pl. v).—*M.*, characters, *posthon* sp. n.,
Antarctic, HOLT and TATTERSALL, Ann.
Mag. Nat. Hist., **17**, (10).

Mysis mixta, life history, APSTEIN,
Wiss., Meeresunters., Abt. Kiel, N.F.,
9, (239–260).—*M. relicta*, distribution in
fresh-water lakes, SAMTER, Berlin, Abh.
Ak. Wiss., **1905**, Abh. V, (1–34).—*M.*
maxima Hansen, MS., Antarctic, HOLT
and TATTERSALL, Ann. Mag. Nat. Hist.,
17, (11).—*M. quadrispinosa* sp. n.,
Chagos Is., ILLIG, Zool. Anz., **30**,
(207).

Nyctiphanes couchi and *australis*
differences, HOLT and TATTERSALL,
Fish. Ireland Sci. Invest., 1904, **5**, (49).

Parerythropterus acanthura sp. n., Cape
Guardafui, ILLIG, Zool. Anz., **30**, (197).

Petalophthalmidae fam. n. for *Peta-*
lophthalma, *Ceratomysis*, *Scolophthal-*
mus, *Hansenomysis*, HOLT and TATTER-
SALL, Fish. Ireland Sci. Invest., 1904, **5**,
(21).

Petalophthalmus oculatus sp. n., Aden,
ILLIG, Zool. Anz., **30**, (194).

Podopsis slabberi in pools, Italy,
MASI, Roma, Boll. Soc. zool. ital., **6**,
(11–20).

Pseudomma belgicae Hansen, MS.,
Antarctic, HOLT and TATTERSALL, Ann.
Mag. Nat. Hist., **17**, (8).—*P. affine* Sars =
roseum H. and T., (27–30, pl. iii, ff. 1–
6), *callophura* (30–33, pl. iv, ff. 1–5),
kempi (33–35, pl. iv, ff. 6–10), characters,
nanum sp. n., (35–38, pl. iii, ff. 7–10),

North-east coast of Ireland, HOLT and TATTERSALL, Fish. Ireland Sci. Invest., 1904, **5**.

Rhopalophthalmus **gen. n.**, (*Mysidae*), *flagellipes* **sp. n.**, Mouth of the Congo, ILLIG, Zool. Anz., **30**, (207).

Siriella paulsoni, Ceylon, TATTERSALL, Rep. Pearl Oyster Fish., **5**, (163, pl. 1, ff. 3-7).

Thysanöessa macrura, description, HOLT and TATTERSALL, Ann. Mag. Nat. Hist., **17**, (5).

Thysanopoda acutifrons, distinguenda characters, HOLT and TATTERSALL, Fish. Ireland Sci. Invest., 1904, **5**, (8-12, pls. i and ii).

STOMATOPODA.

Alima, larvae, description, TATTERSALL, Rep. Pearl Oyster Fish., **5**, (175-178, pl. ii, ff. 20-29).

Alimerichthus, larvae, description, TATTERSALL, T.c. (175-178, pl. ii, ff. 20-29).

Gonodactylus herdmani, (169, pl. i, ff. 8-10), *acanthurus*, (171, pl. i, ff. 11-15), Ceylon, **spp. n.**, TATTERSALL, T.c.—*G. brevisquamatus*, description, (331), *glaber*, synonymy, (333), NOBILI, Ann. sci. nat. zool., **4**.—*G. de mani*, description, NOBILI, Bul. sci. France Belgique, **40**, (158).—*G.* larvae (*Goncrichthus*), Ceylon, TATTERSALL, Rep. Pearl Oyster Fish., **5**, (183-185, pl. iii, ff. 42-47).

Lysiosquilla, larvae (*Lysioerichthus*), Ceylon, TATTERSALL, T.c. (179-183, pl. ii, ff. 30-34, pl. iii, ff. 35-40).

Odontodactylus brevirostris, Ceylon, TATTERSALL, T.c. (172, pl. ii, ff. 16-18).

Protosquilla spinosissima, Ceylon, TATTERSALL, T.c. (173, pl. ii, f. 19).

Squilla, larvae (*Alima* and *Alimerichthus*), description, TATTERSALL, T.c. (175-178, pl. ii, ff. 20-29).

CUMACEA.

Campylaspis vitrea, spinosa, **spp. n.**, Mediterranean, CALMAN, Mitt. zool. Stat., Neapel, **17**, (425-426, pl. xxviii, ff. 28-43).

Cumellopsis puritani **sp. n.**, Mediterranean, CALMAN, T.c. (418, pl. xxvii, ff. 10-12).

Diastylis laevis, synonymy, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (31).—*D. caprecensis* **sp. n.**, Mediterranean, CALMAN, Mitt. zool. Stat., Neapel, **17**, (429, pl. xxviii, ff. 44, 45).

Leucon longirostris, siphonatus, characters, CALMAN, T.c. (414-417, pl. xxvii, ff. 1-29).

Procampylaspis armata, (419, pl. xxvii, ff. 13-20), description, *bonnieri*, (422, pl. xxvii, ff. 21-27). Mediterranean, **sp. n.**, CALMAN, T.c.

Pseudocuma longicornis Bate = *cercaria* Van Beneden, *similis*, North Sea, stages of growth, GILSON, Mem. soc. ent., Belg., **12**, (78-98).

TANAIDACEA.

Apsudes rikiteanus, seurati **spp. n.**, Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (265, 266).

Heterotanaïs ørstedii, Scandinavia, NORMAN, Ann. Mag. Nat. Hist., **17**, (169, pl. vi, ff. 2, 3).—*H. gurneyi* **sp. n.**, England, NORMAN, T.c. (168, pl. v, ff. 1-7, pl. vi, f. 1).

Leptognathia longiremis varia var. **n.**, North Berwick, Scotland, SCOTT, Edinb. Proc. R. Phys. Soc., **16**, (132).

Notatanaïs **gen. n.** for *Paratanaïs antarcticus* Hodgs. and *P. dimorphus* Bedd., Antarctic, RICHARDSON, Bul. Muséum, Paris, **12**, (187), Paris, C.-R. Acad. sci., **142**, (850).

Tanaïs seurati **sp. n.**, Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (266).

Tanaissus **gen. n.** for *Leptognathia lilljeborgii*, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (34, pl. i).

ISOPODA.

(Terrestrial *Iso-poda* of Europe and the Mediterranean basin, DOLLFUS, Feuille jeunes natural., **35**, (163).)

ASELLOTA.

Antias **gen. n.**, (*Munnidae*), *charcoti* **sp. n.**, Antarctic, RICHARDSON, Bul.

Muséum, Paris, **12**, (188) and Paris, C.-R. Acad. sci., **142**, (851).

Austrimunia **gen. n.**, (*Munnidae*) *antarctica* **sp. n.**, Antarctic, RICHARDSON, T.T.cc.

Bagatus **gen. n.**, (*Parasellidae*), *stylo-dactylus*, *platydactylus* **spp. n.**, Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (267, 268).

Ectias **gen. n.**, (*Janiridae*), *turqueti* **sp. n.**, Antarctic, RICHARDSON, T.c. (188), and Paris, C.-R. Acad. sci., **142**, (850).

Jaera kroyeri, living on *Sphaeroma serratum*, Cagliari, Rossi, Zool. Anz., **30**, (107-109).

Stenetrium hanseni, *euchirum* **spp. n.**, Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (266, 267).

PHREATOICOIDEA.

Phreatoicus kirkii **sp. n.**, *dunedinensis* **var. n.**, New Zealand, CHILTON, Wellington, Trans. and Proc. N. Zeal. Inst., **38**, (274-276).

FLABELLIFERA.

Aega australis **sp. n.**, Antarctic, RICHARDSON, Bul. Muséum, Paris, **12**, (187), and Paris, C.-R. Acad. sci., **142**, (850); *A. strömii*, figured, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (38, pl. viii, ff. 9, 10).

Caecospheroma **sp.** habits, GAL, Nîmes, Bul. soc. sci. nat., **31**, (48-51).

Cassidias **gen. n.**, (*Sphaeromidae*), *argentina* **sp. n.**, S. Atlantic, RICHARDSON, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc., **31**, (20, 21).

Cirolana borealis, (pl. iv, f. 1), *eranchii*, (pl. iv, f. 2), figured, NORMAN and SCOTT, Crustacea of Devon and Cornwall. (40).—(*C. caeca* (6), *grimaldii* (8) **spp. n.**, Atlantic and Mediterranean, DOLLFUS, Paris, Bul. soc. zool., **28**).

Cymodoce truncata, characters, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (44, pl. iv, ff. 3-14).—*C. eupyga* (1), *richardsoniae* (3), *erythraea* (4), **spp. n.**, Erythraea, NOBILI, Napoli, Ann. Mus. zool., **2**, No. 16.—*C. ornata* (6), hab., ? *japonica* (7), Japan, *australis* (8), *meridionalis* (9), *brasiliensis* (10), S. Atlantic, *affinis*

(11). Japan, **spp. n.**, RICHARDSON, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc., **31**.

Dynamenella codii, *platura* **spp. n.**, Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (269).—*D. australis* **sp. n.**, Cape Town, RICHARDSON, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc., **31**, (15).

Eurydice rotundicauda **sp. n.**, N. Atlantic, NORMAN, Ann. Mag. Nat. Hist., **17**, (169, pl. vi, ff. 4-7).—*E. pulchra* (pl. iii, f. 11), *truncata* (pl. iii, f. 14), *spinigera* (pl. iii, f. 12), *inermis* (pl. iii, ff. 13, 13*), figured, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (42, 43).

Gnathia maxillaris (36, pl. ii, ff. 1-8), *oxyuraea* (37, pl. ii, ff. 9, 10, pl. iii, ff. 1-5), descriptions, NORMAN and SCOTT, T.c. —*G. antarctica* Studer = *G. polaris* Hodgs., RICHARDSON, Bul. Muséum, Paris, **12**, (187), and Paris, C.-R. Acad. sci., **142**, (850).

Isocladus magellanicus **sp. n.**, Straits of Magellan, RICHARDSON, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc., **31**, (14).

Livoneca convexa **sp. n.**, Panama coast, RICHARDSON, Op. cit. **29**, (445, 446).

Paracassidinopsis **gen. n.**, (*Sphaeromidae*), *sculpta* **sp. n.**, Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (268).

Ræinela danmoniensis, (38, pl. iii, ff. 6-8); *dumerilii*, (39, pl. iii, ff. 9, 10), descriptions, NORMAN and SCOTT, Crustacea of Devon and Cornwall.

Serolis bourieri **sp. n.**, Antarctic, RICHARDSON, Bul. Muséum, Paris, **12**, (187), and Paris, C.-R. Acad. sci., **142**, (850).

Sphaeroma serratum with *Jaera kroyeri* as commensal at Cagliari, Rossi, Zool. Anz., **30**, (107-109).

VALVIFERA.

Chiridothea entomon, biology, variation, etc., SKORIKOV, St. Peterburg, Bull. Ac. Sc., **24**, (53-64).

Glyptonotus acutus **sp. n.**, Antarctic, RICHARDSON, Bul. Muséum, Paris, **12**, (187), and Paris, C.-R. Acad. sci., **142**, (850).

Idotea hectica structure of digestive system, GUIEYSSE, Paris, Bul. soc. philom., **8**, (103-109).

Synidotea pacifica sp. n., Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (268).

EPICARIDEA.

Aporobopyroides gen. n., (*Bopyridae*), *upogebiae* sp. n. on *Upogebia savignyi*, Massowa, NOBILI, Torino, Atti Acc. Sc., **41**, (1108, f. 6).

Aporobopyrus gen. n., (*Bopyridae*), *aduliticus* sp. n. on *Petrolisthes rufescens*, Massowa, NOBILI, T.c. (1166, f. 4).

Cardiocepon gen. n., (*Bopyridae*), *pteroides* sp. n. on *Cardiosoma carnifex* Ternate, NOBILI, T.c. (1104, f. 3).

Epipenacon gen. n., (*Bopyridae*), *ingens* sp. n. on *Penaeus ashiaka*, Red Sea, NOBILI, T.c. (1098, f. 1).

Gigantione giardi sp. n., Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (270).

Grapsicepon typus parasitic on *Grapsus strigosus*, GIARD, Paris, C.-R. soc. biol., **61**, (704-706).

Grapsion carolinii parasitic in *Pachygrapsus marmoratus*, together with *Sacculina benedeni*, SMITH, Fauna Neapel, Berlin, **29**, (80-81).

Gyge branchialis in the Channel, GIARD, Feuille jeunes natural., Paris, **36**, (12).

Orbione bonnieri sp. n. on *Metapenaeus monoceros*, Singapore, NOBILI, Torino, Atti Acc. Sc., **41**, (1102, f. 2).

Upogebiophilus gen. n. (*Bopyridae*), *rhadamces* sp. n. on *Upogebia rhadamces*, Djibouti, NOBILI, T.c. (1110, f. 5).

ONISCOIDEA.

Armadillidium nasatum, (102, pl. xxii); *rulgare*, (103, pl. xxiii); *pulchellum*, (104, pl. xxiv); *depressum*, (106, pl. xxv), Britain, WEBB and SILLEM, Essex Nat., **14**.

Armadillo glomus sp. n., German E. Africa, BUDDE-LUND, Deutsch Ost-Afrika Isopoden, (8, f. 13).

Cyclisticus convexus, Britain, WEBB and SILLEM, Essex Nat., **14**, (101, pl. xxxi).

Deto armata, St. Paul Is., (84, pl. iv, ff. 26-36); *magnifica*, (86); *robusta*, (87, pl. iv, ff. 42-44), Auckland Is., spp. n.; *echinata*, (85, pl. iv, ff. 37, 38); *marina*, (85, pl. iv, ff. 39, 41), descriptions, BUDDE-LUND, Isopoda, Deutsche Südpolar Exped.

Eubelum pila, *hilgendorfi* spp. n., German E. Africa, BUDDE-LUND, Deutsch Ost-Afrika Isopoden (4, ff. 1, 2).

Hemilepistus elegans, structure and habits, FAUSSEK, St. Peterburg, Zap. Russ. Geogr. Obšč., **27**, (178-182, f. 63).

Ligia exotica, meristic variation, GOTO, Annot. Zool. Jap., Tokyo, **5**, (267-281).

Metoponorthus pruinus, (99, pl. xix); *cingendus*, (100, pl. xx), Britain, WEBB and SILLEM, Essex Nat., **14**.—*M. pruinus* in Scotland, EVANS, Ann. Scot. Nat. Hist., **1906**, (187); in New Zealand, CHILTON, Wellington, Trans. and Proc. N. Zeal. Inst., **38**, (64, 65).

Perisceyphis anomalus, description, (5, ff. 3, 4); *armadilloides*, (5); *nanus*, (5, f. 6); *obtusicauda*, (6, ff. 7, 8); *villosus*, (6, f. 9); *pygmaeus*, (6, ff. 10, 11); *pulcher*, (7, f. 12), spp. n. German E. Africa, BUDDE-LUND, Deutsch Ost-Afrika Isopoden.

Philoscia mendica sp. n., German E. Africa, BUDDE-LUND, T.c. (9, ff. 14, 15).—*P. hirsuta* sp. n., Cape Colony, BUDDE-LUND, Isopoda Deutsch Südpolar Exped., (89, pl. iii, ff. 42-52).

Platyarthrus hoffmannseggii in ants' nests, ROUBAL, Prag, SitzBer. Böhm. Ges. Wiss., 1905, No. 15, (6).

Porcellio laevis, (97, pl. xvii), *ratzeburgii*, (98, pl. xviii), Britain, WEBB and SILLEM, Essex Nat., **14**.

Oniscus murarius, regeneration of antenna, OST, Zool. Anz., **29**, (687-694); l.c. **30**, (130-131); Arch. EntwMech., Leipzig, **22**, (289-324, pls. x-xii).

Synarmadilloides gen. n., *rocattii* sp. n., Mt. Ruwenzori, NOBILI, Torino, Boll. Musei zool. anat., **21**, No. 544, (2).

Trichoniscus pygmaeus new to Britain, BAGNALL, Ann. Mag. Nat. Hist., **18**, (474).—*T. rerrucosus*, Crozet Is., (79, pl. iv, ff. 1-16); *microps*, Italy, (83, pl. iv, ff. 18-20), spp. n.; *flavus* nom. n. for *viridis* B.-L. (nec Koch). BUDDE-

LUND, Isopoda Deutsche Südpolar Exped.

Tylos nudulus, Christmas island, (76 pl. iii, ff. 27–30); *incurvus*, Natal, (79, pl. iii, f. 41). **spp. n.**; *capensis*, (74, pl. iii, ff. 14–18); *latreillei*, (74, pl. iii, ff. 1–13); *ponticus*, (75, pl. iii, ff. 19, 20); *gramulatus*, (75, pl. iii, ff. 21–24); *minor*, (76, pl. iii, ff. 25–26); *niveus*, (76, pl. iii, ff. 31–33); *opercularis*, (77, pl. iii, ff. 34–36); *albidus*, (77, pl. iii, ff. 37–40), descriptions, **BUDDE-LUND**, T.c.

INCERTAE SEDIS.

Colypurus **gen. n.** *agassizi* **sp. n.**, Eastern Pacific, **RICHARDSON**, Cambridge, Mass., Bull. Mus. Comp. Zool., **46**, (105, 106, pl.).

Rhabdochiridae **fam. n.** for *Rhabdochirus incertus* Giard and Bonn. **RICHARDSON**, L.c.

AMPHIPODA.

Faunistic notes, distribution in North Sea, **REIBISCH**, Wiss. Meeresunters., Kiel, Abt. Kiel, **9**, (185–237, 2 Taf.).

Amphipoda, *Gammaridea*, descriptions of all the known species, **STEBBING**, Das Tierreich, **21**, 1906.

(*Amphipoda* of Lake Titicaca, **CHEVREUX**, Paris, Bul. soc. zool., **29**, (131–134).)

Actinacanthus **nom. n.** for *Acanthochinus* preoccupied, **STEBBING**, T.c. (326).

Aeginina **nom. n.** for *Aegina* Krøyer, **NORMAN**, Museum Normanianum (46).

Amphithoe buczinskii **sp. n.** Gulf of Odessa; **KALIŠEVSKIJ**, Odessa, Mém. soc. nat., **29**, (1–34, with plates i, ii).

Andaniexis **nom. n.** for *Andania* preoccupied, **STEBBING**, Das Tierreich, **21**, (94).

Aora gracilis, description, **REIBISCH**, Wiss. Meeresunters. Kiel, Abt. Kiel, **9**, (198, pl. viii, ff. 8–11, pl. ix, f. 1).

Apherusa clerei, description, **REIBISCH**, T.c. (191, pl. viii, ff. 1–4).—*A. ovalipes* **sp. n.**, coast of Devon, Scilly Is., **NORMAN** and **SCOTT**, Crustacea of Devon and Cornwall, (75, pl. viii, ff. 1–8).

Aristias antarcticus **sp. n.** Antarctic, **WALKER**, Ann. Mag. Nat. Hist., **17**, (454).

Arrhis **nom. n.** for *Accros*, **STEBBING**, Das Tierreich, **21**, (248).

Atyloides brevicornis **sp. n.** Antarctic, **CHEVREUX**, Paris, Bul. soc. zool., **31**, (84, f. 5).

Atylus andrusovi odessanus **var. n.** Gulf of Odessa, **KALIŠEVSKIJ**, Odessa, Mém. Soc. nat., **29**, (1–34, with plates i, ii).—*A. walkeri* **nom. n.** for *antarcticus* (Walk.), **STEBBING**, Das Tierreich, **21**, (728).

Bathyporeia lindströmi **sp. n.** Naples, **STEBBING**, T.c. (122).

Cerapus crassicornis, description, **REIBISCH**, Wiss. Meeresunters., Kiel, Abt. Kiel, **9**, (210, pl. ix, f. 11).

Coremapus; characters, *versiculatus* Bate figured, **NORMAN** and **SCOTT**, Crustacea of Devon and Cornwall, (85, pl. ix, ff. 8–10).

Corophium rotulator Pallas = *C. grossipes* Linn., **SCOTT**, Edinb. Proc. R. Physic. Soc., **16**, (379).

Crybelocephalus **gen. n.**, *megalurus* **sp. n.**, West Coast of Ireland, **TATTERSALL**, Fish. Ireland Sci. Invest., 1905, **4**, (32–36, pl. iii, f. 1. pl. v, ff. 1–14).

Epimeria macrodonta **sp. n.**, Antarctic, **WALKER**, Ann. Mag. Nat. Hist., **18**, (16).

Epimeriella **gen. n.** *maeronyx* **sp. n.**, Antarctic, **WALKER**, T.c. (17).

Erichthonius hunteri, description, **REIBISCH**, Wiss. Meeresunters. Kiel, Abt. Kiel, **9**, (207, pl. ix, ff. 5–10).

Eusirus microps **sp. n.**, Antarctic, **WALKER**, Ann. Mag. Nat. Hist., **18** (152).

Gammaropsis longicornis **sp. n.**, Antarctic, **WALKER**, T.c. (153).

Gammarus argaeus **sp. n.**, Asia Minor, **VÁVRA**, Wien, Ann. Nat. Hist. Hofmus., **20**, (109, pl. iii, ff. 10–13).—*G. pulex*, peripheral nervous system, **WREDEN**, St. Petersburg, Ber. Süßwasserst. Naturf. Ges., **2**, (152–157); deutsches Rés. (158–160, pl. iii).—*G. deminutus* **nom. n.** for *minutus* (Sars), **STEBBING**, Das Tierreich, **21**, (466).

(*Grandidierella* **gen. n.**, *Corophiidae*, *mahafalensis* **sp. n.** in salt lake, Madagascar, **COUTIÈRE**, Paris, Bul. soc. philom., **6**, (166–174).)

Haploops dellavallei sp. n., Naples, STEBBING, T.c. (116).

(*Hippomedon bidentatus* sp. n., Mediterranean, CHEVREUX, Paris, Bul. soc. zool., **28**, (87).)

(*Hyalella nereu-lemairi* sp. n., Lake Titicaca, CHEVREUX, op. cit. **29**, (132).—*H. richardi* sp. n., Alboran Is., Mediterranean, CHEVREUX, op. cit. **27**, (223-227).)

Hyperia macronyx sp. n., Antarctic, WALKER, Ann. Mag. Nat. Hist., **17**, (452).

Hyperlopsis australis sp. n., Antarctic, WALKER, T.c. (454).

Hyperoche lütkenoides sp. n., Antarctic, WALKER, T.c. (453).

Iphimedia echinata (150), *longipes* (151), *hodgei* (152), spp. n., Antarctic, WALKER, T.c.

Leptocheirus guttatus (85, pl. ix, ff. 4-7), *pectinatus* (87, pl. ix, ff. 1-3), *fasciatus* (88, pl. v, ff. 11, 12), descriptions, NORMAN and SCOTT, Crustacea of Devon and Cornwall.

Liljeborgia dellavallei sp. n. Naples, STEBBING, Das Tierreich, **21**, (234).

Lysianella dellavallei nom. n. for *Anonyx petalocera*, Della Valle, STEBBING, T.c. (32).

Macrohectopus nom. n. for *Constantia*, STEBBING, T.c. (394).

Metacyphocaris gen. n., *helgae* sp. n., West Coast of Ireland, TATTERSALL, Fish. Ireland Sci. Invest., 1905, **4**, (29-32, pl. iii, f. 1, pl. iv, ff. 1-14).

Metopoides walkeri sp. n., Antarctic, CHEVREUX, Paris, Bul. soc. zool., **31**, (37, f. 1).

Micromimonectes gen. n., (*Hyperina*) for *irene*, *typus*, *physosoma*, *steenstrupi*, WOLTERECK, Zool. Anz., **30**, (187-194).

Nannonyx thomsoni nom. n. for *Lysianassa krøyeri* (Thoms.), STEBBING, Das Tierreich, **21**, (36).

Neopleustes gen. n. type *Amphitoe pulchella* Krøyer, STEBBING, T.c. (311).

Niphargus ciliatus sp. n. in cave, Basses-Alpes, CHEVREUX, cf. PEYERIMHOFF, Paris, Ann. soc. ent., **75**, (217).

Niphargus sp. habits, GAL, Nîmes, Bul. soc. sci. nat., **31**, (48-51).

Normanion sarsi nom. n. for *Normania quadrimana* (Boeck), STEBBING,

Das Tierreich, **21**, (42).—(*N. abyssi* sp. n., Mediterranean, CHEVREUX, Paris, Bul. soc. zool., **28**, (82).)

Oediceroides calmani sp. n., Antarctic, WALKER, Ann. Mag. Nat. Hist., **18**, (15).

Orchestia costaricana sp. n., Costa Rica, STEBBING, Washington, D.C., U. S. Nation. Mus. Proc., **31**, (501, pl. 11).

Orchomene goniops sp. n., Antarctic, WALKER, Ann. Mag. Nat. Hist., **17**, (455).

Orchomenella chelipes sp. n., Antarctic, WALKER, T.c. (456).—(*O. dilatata* sp. n., Mediterranean, CHEVREUX, Paris, Bul. soc. zool., **28**, (90).)

Orchomenopsis chevreuxi nom. n. for *excavata* Chevreux, STEBBING, Das Tierreich, **21**, (721).

(*O. proxima* (93) *excavata* (94) spp. n., Atlantic, CHEVREUX, Paris, Bul. soc. zool., **28**.)

Pallasiella quadrispinosa, distribution in fresh-water lakes, SAMTER, Berlin, Abh. Ak. Wiss., **1905**, Abh. V, (1-34, 6 maps).

(*Parocallisoma* gen. n. (*Lysianassidae*) *alberti* sp. n., Azores, CHEVREUX, Paris, Bul. soc. zool., **28**, (84, 86).)

Paradexamine fissicauda sp. n., Antarctic, CHEVREUX, op. cit. **31**, (82, ff. 1, 2).

Parapherusa nom. n. for *Harmonia*, STEBBING, Das Tierreich, **21**, (383).

Paratylus swammerdami (192, pl. viii, ff. 6, 7) *falcatus* (193), descriptions, REIBISCH, Wiss. Meeresunters., Kiel, Abt. Kiel, **9**.

Pardaliscella axeli sp. n., North Sea, STEBBING, Das Tierreich, **21**, (228).

Parhalimедon gen. n. (*Oediceridae*), *turqueti* sp. n., Antarctic, CHEVREUX, Paris, Bul. soc. zool., **31**, (76, f. 1).

Pariphimedia gen. n. (*Iphimediidae*), *integricauda* sp. n., Antarctic, CHEVREUX, T.c. (39, f. 2).

Paroedicerus intermedius sp. n., Kara Sea, STEBBING, Das Tierreich, **21**, (245).

Photis reinhardi (202, pl. ix, ff. 2, 3), *longicaudata* (203, pl. ix, f. 4), descriptions, REIBISCH, Wiss. Meeresunters., Kiel, Abt. Kiel, **9**.

Podoprionides gen. n., *incerta* sp. n., Antarctic, WALKER, Ann. Mag. Nat. Hist., **17**, (457).

Pontocrates arenarius (68, pl. vi, ff. 1-4). *norvegicus* (68, pl. vi, ff. 5-8), *albarmarinus* (69, pl. vii, ff. 1-4), *arcticus* (70, pl. vii, ff. 5, 6), descriptions, NORMAN and SCOTT, Crustacea of Devon and Cornwall.

Pontogeneia antarctica sp. n., Antarctic, CHEVREUX, Paris, Bul. soc. zool., **31**, (79, f. 2).

Pontoporeia affinis, distribution in fresh-water lakes, SAMTER, Berlin, Abh. Ak. Wiss., 1905, Abh. V, (1-34, 6 maps).

Probolliella gen. n. (13), *typica* sp. n., Antarctic (14), WALKER, Ann. Mag. Nat. Hist., **18**.

Proboloides antarcticus sp. n., Antarctic, WALKER, T.c. (13).

Scina vosseleri (7-9, pl. i, ff. 1-8), *submarginata* (12-14, pl. ii, ff. 1-8), spp. n., West Coast of Ireland, TATTERSALL, Fish. Ireland Sci. Investig., 1905, 4.

Seba antarctica sp. n., Antarctic, WALKER, Ann. Mag. Nat. Hist., **17**, (570) and **18**, (154).—*S. typica*, description, CHILTON, op. cit. **17**, (572).

Sphaeromimonectes scinoides (867, f. 3), South Indian Ocean, *cultricornis* (868, f. 5), South Atlantic, spp. n., WOLTERECK, Zool. Anz., **30**.

Stenothoe cattai sp. n., Mediterranean, STEBBING, Das Tierreich, **21**, (195).

Synchelidium maculatum sp. n., Mediterranean, STEBBING, T.c. (242).—*S. haplocheles*, synonymy, figure, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (67, pl. vii, ff. 7-9).

Talitroides bonnieri sp. n., Hab.?, STEBBING, Das Tierreich, **21**, (527).

Thaumatelson gen. n., *herdmani* sp. n., Antarctic, WALKER, Ann. Mag. Nat. Hist., **18**, (15).

Wandelia gen. n. (*Phliadidae*) *crassipes* sp. n., Antarctic, CHEVREUX, Paris, Bul. soc. zool., **31**, (87, ff. 1, 2).

PHYLLOCARIDA.

Nebalia, embryonic development, ROBINSON, Q. J. Microsc. Sci., London, **50**, (383-433, pls. xvi-xxi).—*N. bipes* characters, TATTERSALL, Rep. Pearl Oyster Fish., **5**, (159).

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BRANCHIOPODA.

PHYLLOPODA.

†*Anomalocaris canadensis*, description, WHITEAVES, Palaeoz. Fossils, **3**, pt. 4, (313).

Apus; hermaphroditism, ZOGRAFF, Zool. Anz., **30**, (563-567).—*A. caneriformis* at Magdeburg, KÖHLER, Bl. Aquarienkunde, Magdeburg, **17**, (294).—*A. productus*, bionomics, FRITZE, Hannover, Jahrb. ProvMus., **1905-1906**, (43-46); in Poland, WOLSKI, Bl. Aquarienkunde, Magdeburg, **17**, (478).

Artemia; histology of ova, ARTOM, Biologica, Torino, **1**, fasc. 1, (1-10).—*A. salina*, parthenogenesis, environmental effects, ARTOM, Biol. Centralbl., **26**, (26-32); *l.c.* (204-208); variation in chemical solutions, ARTOM, Torino, Atti Acc. Sc., **41**, (971, 972); anatomy of median eye and frontal organ, NOWIKOFF, Zs. wiss. Zool., **81**, (691-698, pl. i.); (cervical plate of nauplius, ZOGRAFF, Paris, C.-R. Acad. sci., **141**, (903-905).—*A. franciscana* sp. n., San Francisco, KELLOGG, Science, New York, **24**, (596).

(*Branchinecta*, habitats of N. American species, SHANTZ, Biol. Bull., Wood's Holl, Mass., **9**, (249-264, pl.)).

Branchipus ferox, large variety, ENTZ, Allatt. Közlem., **5**, (147-148).—*B. grubei*, bionomics, FRITZE, Hannover, Jahrb. ProvMus., **1905-1906**, (43-46).

†*Estheria*; distribution in the Trias of Britain, LOMAS, London, Rep. Brit. Ass., **1905**, (166-168).—*E. indica* sp. n., S. India, GURNEY, Calcutta, J. Proc. As. Soc. Beng., **2**, (273, pl. iv, pl. v, ff. 9-10).—*E. elizabethae* sp. n., Cape Colony, SARS, Arch. Math. Naturv., Kristiania, **27**, No. 1, (10-15, pl. ii).

Streptocephalus spinifer sp. n., Ceylon, GURNEY, Spolia Zeylan., **4**, (127, pl. i).—*S. dichotomus simplex* var. n. Cutch, GURNEY, Calcutta, J. Proc. As. Soc. Beng., **2**, (276, pl. v, f. 11).—*S. papillatus* sp. n., Cape Colony, SARS, Arch. Math. Naturv., Kristiania, **27**, No. 4, (1-10, pl. i).

CLADOCERA.

Cladocera of Switzerland, STINGELIN, Genève, Rev. Suisse Zool., **14**, (317-387, pls. xiii-xv); of Dauphiné-Alps, KEILHACK, Zool. Anz., **29**, (694-701)

of Irish lakes, WEST and WEST, Dublin, Trans. R. Irish Acad., **33** (B), (96); of Paraguay, STINGELIN, Ann. biol. lacustre, **1**, (181-192).

Alona bukobensis sp. n., German E. Africa, WELTNER, Deutsch Ost-Afrika, Cladoceren, (9, ff. 16-18, 20, 32).—*A. bukobensis subantartica* var. n., S. Georgia, EKMAN, Cladocera and Copepoda, Swedish Antarctic expedition, (8).—*A. falcata* figured, LARGAIOLLI, Padova, Atti Ac. Ven.-Trent., **3**, (39).

Bosmina acrocoregoni burckhardti var. n., Alpine lakes, BREHM, Wien, Verh. ZoolBot. Ges., **56**, (40).—*B. coregoni amethystina* var. n., Garda Lake, Italy, BREHM, Arch. Hydrobiol., **1**, (497).—*B. stuhlmanni* sp. n., German E. Africa, WELTNER, Deutsch Ost-Afrika, Cladoceren, (6, ff. 15, 30).

Bosminopsis zernowi, Linko, Central Russia; distribution of the genus; ZYKOFF, Zool. Anz., **30**, (22-24).

Ceriodaphnia quadrangula hamata var. n., Alpine lakes, BREHM, Wien, Verh. ZoolBot. Ges., **56**, (37, 38).—*C. bicuspidata* sp. n., German E. Africa, WELTNER, Deutsch Ost-Afrika, Cladoceren, (5, ff. 10, 11, 14).—*C. globosa* sp. n., New Zealand, BRADY, London, Proc. Zool. Soc., **1906**, (695, pl. xlviii, ff. 1-3).

Chirocephalus appendicularis sp. n., Asia Minor, VÁVRA, Wien, Ann. Nat. Hist. Hof. Mus., **20**, (107, pl. iii, ff. 1-9).

Chydorus sphaericus, figured, EKMAN, Cladocera and Copepoda, Swedish Antarctic expedition, (9, pl. i, f. 2).

Daphnidae, sex production, cycles of generation, ISSAKOWITSCH, Arch. mikr. Anat., Bonn, **69**, (223-244).

Daphnia longispina, variation, WOLTERECK, Biol. Centralbl., **26**, (471, ff. 1-4); var. *zschokkei*, form. n. *lemani*, Switzerland, STINGELIN, Genève, Rev. Suisse, Zool., **14**, (338, pl. xiv, f. 20).—*D. fusca* sp. n., Chitral, GURNEY, Calcutta, J. Proc. As. Soc. Beng., **2**, (276, pl. v, ff. 12-14).—*D. kirimensis* sp. n., (2, ff. 1-3, *jardinei barbata* var. n., (3, ff. 4-9, 21-29), German E. Africa, WELTNER, Deutsch Ost-Afrika, Cladoceren.—*D. magna americana* var. n., Nebraska, FORDYCE, Trans. Amer. Microsc. Soc., **25**, (47, pl. vi., f. 1).

Diaphanosoma brachyurum var. n., *tridentinum*, Italian lakes, LARGAIOLLI, Zool. Anz., **29**, (701), and Arch. Hydrobiol., **1**, 1906, (428-432) and Padova, Atti Ac. Ven.-Trent., **3**, (37).

Ilyocryptus brevidentatus sp. n., S. Georgia, Falkland Is., EKMAN, Cladocera and Copepoda, Swedish Antarctic expedition, (5, pl. i, f. 1).

Leydigia trichura sp. n., Nebraska, FORDYCE, Trans. Amer. Microsc. Soc., **25**, (49, pl. vi, ff. 2, 3).

Macrothrix chevreuxi, described, WELTNER, Deutsch Ost-Afrika, Cladoceren, (7, ff. 12, 13, 19, 31).—*M. montana* sp. n., Colorado lakes, BIRGE, Trans. Amer. Microsc. Soc., **25**, (150, pl. xxv, ff. 2, 3).

Polyphemus pediculus, cycles of generation, KEILHACK, Zool. Anz., **30**, (911-912); biology and æcology, ZACHARIAS, T.c. (455-459).

Scapholeberis kingi, Calcutta, GURNEY, Calcutta, J. Proc. As. Soc., Beng., **2**, (277, pl. v, f. 15).

Simocephalus serrulatus, Kew Gardens, new to Britain, SCOURFIELD, Kew Bulletin, Add. Ser., **5**, (16).—*S. latirostris* sp. n., Paraguay, STINGELIN, Ann. biol. lacustre, **1**, (187, f. 5).

Syda crystallina, figured, LARGAIOLLI, Padova, Atti Ac. Ven.-Trent., **3**, (37).

COPEPODA.

Copepoda, development, MCCLENDON, Wood's Holl, Mass., Mar. Biol. Lab. Bull., **12**, (37-52, pl. i); metamorphoses, OBERG, Wiss. Meeresunters., Kiel. Abt. Kiel, N.F., **9**, (37-103, with 7 pls.); Kiel, Schr. natur. Ver., **13**, (247-253).—List of marine species of Ireland, PEARSON, Fish. Ireland Sci. Invest., 1905, **6**, (1-37).—Of Irish lakes, WEST and WEST, Dublin, Trans. R. Irish Acad., **33** (B), (96).—Key to genera of *Gymnoplea* and *Podoplea*, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **2**, (118-121, 205-207).

Copepoda, allied to *Lamippe*, in Gorgonian polyps, VERSLUYS, Gorgoniden der Siboga-Expedition, (6).

Acartia biflosa, *longiremis*, larval forms, OBERG, Wiss. Meeresunters., Kiel, Abt. Kiel, **9**, (44, pl. iv).

Adiaptomus **gen. n.**, *natalensis* **sp. n.**, Natal, COOPER, Ann. Natal Govt. Mus., **1**, (98, pl. xii, ff. 1-14).

Ameira simplex, description, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (150, pl. x, ff. 7-9, xii, f. 4, xiii, f. 3, xiv, f. 5, xvii, f. 3, xxi, f. 7).

Amenophia peltata, British Isles and Norway, (136, pls. lxxxiii, lxxxiv), *pulchella* **sp. n.**, Norway, (138, pl. lxxxiv, f. 2), SARS, Crustacea of Norway, **5**.

Amphiascus, synonymy, (148), *cinctus*, (149, pls. xci, xcii), *obscurus* **sp. n.**, Norway, (150, pl. xciii), *similis*, (151, pl. xciv), *nasutus* nom. **n.**, for *Dactylopus strömi* var. *arctica* (153, pl. xciv), *minutus*, synonymy, (154, pl. xcvi), *imus*, (156, pl. xcvi), *giesbrechti* **sp. n.**, Kiel, (157, pl. xcvi), *propinquus* **sp. n.**, Norway, (158, pl. xcix), *longirostris*, (159, pl. c, ci), *tenuiremis*, (161, pl. cii), *parvus* **sp. n.**, Norway, (162, pl. ciii), *debilis*, (162, pl. civ), *pallidus* **sp. n.**, Norway, (164, pl. cv), *abyssi*, (165, pl. cvi), *hispidus*, (166, pls. cvii, cviii), *affinis* **sp. n.**, Norway, (168, pl. cix), *intermedius*, (169, pl. cx), *typhlops*, (170, pl. cxi), *attenuatus*, (171, pl. cxii), *phyllopus*, (172, pl. cxiii), *nanus*, (173, pl. cxiv, f. 1), *exiguus*, (174, pl. cxiv, f. 2), *productus*, (175, pl. cxv), *tenellus*, (176, pl. cxvi), *linearis*, (177, pl. cxvii), *sinuatus*, (178, pl. cxviii), **spp. nn.**, Norway; SARS, Crustacea of Norway, **5**.

Anchorella scomberi, *paradoxa*, Irish Sea, SCOTT, Liverpool, Proc. Trans. Biol. Soc. **20**, (197, pls. vii, viii).—*A. intermedia* **sp. n.**, Antarctic, in buccal cavity of *Nothostenia*, QUIDOR, Bul. Muséum, Paris, 1906, (29), and Paris, C.-R., Acad. sci., **142**, (55, 56).

Arietellus setosus, description, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **2**, (189).—*A. major* **sp. n.**, Californian coast, ESTERLY, op. cit. **3**, (74, pl. ix, f. 17, xi, ff. 43, 44, xii, f. 56, xiii, f. 80).

Attheyella grandidieri, Java, Siam, Cochin China, (185, pl. xiv, ff. 7-17), *decorata*, Sumatra, Java, (188, pl. xiv, ff. 18-21, xv, ff. 1-13), descriptions, DADAY, Zool. Jahrb., Syst. **24**.

Augaptilus rostratus **sp. n.**, Californian coast, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **3**, (73, pl. ix, f. 19, xi, f. 42, xii, ff. 57, 63, xiii, f. 75).—

A. longicaudatus, description, ESTERLY, l.c., **2**, (188).

Autanepsius **gen. n.**, *major*, (39, pl. xiii, f. 1), *minor*, (41, pl. xiii, ff. 2-5). Atlantic Ocean, **spp. n.**, WOLFENDEN, Plankton Studies, **3**.

Bathycalanus richardi, Sars. = *Megacalanus princeps* Wolf., WOLFENDEN, T.c. (25).

Boeckella entzi, description, (15, pl. i, f. 6), *vexillifera* **sp. n.**, Falkland Is., (16, pl. i, ff. 7-12), EKMAN, *Cladocera* and *Copepoda*, Swedish Antarctic Expedition.

Brachiella antarctica **sp. n.**, Antarctic, parasitic on *Dissostichus cleginoides*, QUIDOR, Bul. Muséum, Paris, **12**, (30).

Bradya minor, salt-water pond, Northumberland, BRADY, Newcastle, Trans. Nat. Hist. Soc., **1**, (332, pl. ix, ff. 1-3).

Caetrodes **gen. n.**, (*Dichelestiidae*) *pholas* **sp. n.**, on *Tetrodon stellatus*, Ceylon, WILSON, Rep. Pearl Oyster Fish., **5**, (203-205, pl. iv, ff. 48-57).

Calamæcia **gen. n.**, near *Limnocalanus*, (696), *lucasi* **sp. n.**, (696, pl. 49, ff. 1-10), New Zealand, BRADY, London, Proc. Zool. Soc., **1906**.

Calanus, descriptions, figures and key to Californian coast species, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **2**, (124-129).—*C. finmarchicus*, biology, PAULSEN, Kjöbenhavn, Meddelelser fra Kommissionen for Havundersøgelser, **1**, (1-21, 3 pls.).—*C. robustior*, figured, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **3**, (77, pl. xiv, f. 81).

Caligus zeii **sp. n.** on *Zeus faber*, Cornwall, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (206, pl. xxii, ff. 1-8).—*C. rapax* on *Orthogoriscus mola*, North Berwick, EVANS, Ann. Scot. Nat. Hist. No. **57**, (57).—*C. scomberi*, Irish Sea, SCOTT, Liverpool, Proc. Trans. Biol. Soc., **20**, (196, pl. vi).—*C. dentatus* **sp. n.** on *Cyprinus carpio*, Caspian Sea, GADD, Ark. Zool. Stockholm, **3**, No. 15, (1-9).

(*Caligus remorae* **sp. n.**, Red Sea, BRIAN, Arch. parasit. Paris, **9**, (564, 9 ff.).

Candacia; descriptions, figures and key to Californian species, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **2**, (192-

198).—*C. cheirura*, (198, pl. i, pl. ii, ff. 7-10), *inermis*, (200, pl. ii, ff. 11-13, pl. iii, ff. 14-16), **spp. n.** S. African seas, CLEVE, Cape Town Marin. Invest., **3**.

Canthocamptus, description, SARS, Crustacea of Norway, **5**, (194-195); key to N. American species (154), *staphylinoides* (151, pl. xv, ff. 14-21), *hiemalis* (153, pl. xvi, ff. 28, 29, xvii, ff. 31-42), **spp. n.**, Nebraska, PEARSE, Trans. Amer. Microsc. Soc., **26**.—*C. bidens*, Kew Gardens, new to Britain, SCOURFIELD, Kew Bulletin, Add., Ser. **5**, (20).—*C. northumbrius coronatus* var. n. Mongolia, DADAY, Math. Termt. Ért., **24**, (58).—*C. crassus*, description, (29, pl. iii, ff. 25-28), *trigonurus* **sp. n.** (30, pl. iii, ff. 29-34), Falkland Is., EKMAN, *Cladocera* and *Copepoda*, Swedish Antarctic Expedition.

Centropages bradyi, description, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **2**, (172).—*C. hamatus*, larval forms, OBERG, Wiss. Meeresunters. Kiel, Abt. Kiel, **9**, (42, pl. ii).

Clausocalanus arcuicornis, description, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **2**, (142).

Clytemnestra rostrata, description, ESTERLY, T.c. (214).

Corycaeus sp., in Adriatic, BREHM, Arch. Hydrobiol., Stuttgart, **1**, (392-393).—*C. venustus*, (225), *carinatus*, (226), descriptions, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **2**.

Cyclopina gracilis, mandible figured, BRADY, Newcastle Trans. Nat. Hist. Soc., **1**, (332, pl. x, f. 13).

Cyclops albidus, (48, pl. ii, ff. 1-3, iii, f. 1), *serrulatus*, (49, pl. i, ff. 5-6, ii, f. 9, iii, ff. 6, 7), *fimbriatus*, (53, pl. iii, f. 2), *leuckarti*, (56, pl. i, ff. 1, 3), *strenuus*, (58, pl. iii, f. 4), *viridis*, (59, pl. i, f. 4, ii, ff. 4-6, iii, f. 5), *vernalis*, (61, pl. iii, f. 3), *bicolor*, pl. i, f. 2, ii, ff. 7, 8), descriptions, LAROCHE, Copepoden der Umgebung von Bern.—*C. venustus* **sp. n.**, Devonshire, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (189, pl. xvi, f. 11, xviii, f. 9, xx, ff. 1-3).—*C. signatus* var. *coronatus*, development, BYRNES, Wood's Holl, Mass., Mar. Biol. Lab. Bull., **10**, (193-196, pl. vii, viii).—*C. aspericornis* **sp. n.**, Sumatra, DADAY, Math. Termt. Ért., **24**, (269), also Zool. Jahrb. Syst., **24**, (181, pl. xiv, ff. 1-6).—*C. stuhlmanni*, (1, pl. i, ff. 1-7,

10, 11), *emini*, (4, pl. ii, ff. 1-3, 5-6, 8), **spp. n.**, German E. Africa, *oithonoides*, (3, pl. i, ff. 8, 9, 12, 13), *leuckarti*, (5, pl. ii, ff. 4, 7, 9), descriptions, MRÁZEK, Deutsch Ost-Afrika, Copepoden.—*C. lobulosus* **sp. n.**, Falkland Is., EKMAN, *Cladocera* and *Copepoda*, Swedish Antarctic Expedition, (27, pl. iii, ff. 22-24).

Dactylopodella **gen. n.** for *D. flava* Claus, SARS, Crustacea of Norway, **5**, (131-133, pl. lxxxi).

Dactylopus jugurtha, Siam, DADAY, Zool. Jahrb. Syst., **24**, (195, pl. xvi, ff. 6-8).

Dactylopusia valida, description, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (171, pl. x, f. 16, xii, f. 9, xiii, f. 12, xvii, f. 8, xx, f. 6).

D'Arcythompsonia **gen. n.** for *Cylindropsyllus fairliensis*, SCOTT, Ann. Mag. Nat. Hist., **17**, (463, pl. xi, ff. 1-6).

Diaptomus gracilis (63, pl. iv, ff. 1-3), *vulgaris*, (64, pl. iv, ff. 4, 5), descriptions, LAROCHE, Copepoden der Umgebung von Bern.—*D. graciloides kubinskaja* var. n., North Russian coast, ZYKOFF, Zool. Anz., **30**, (167, f. 4).—*D. risus* **sp. n.**, Singapore, DADAY, Math. Termt. Ért., **24**, (279), and Zool. Jahrb. Syst., **24**, (20, pl. xvi, ff. 17-20).—*D. greeni* **sp. n.**, Ceylon, GURNEY, Spolia Zeylan., **4**, (129, pl. ii).—*D. galebi*, (6, pl. iii, ff. 4, 5, 8, 9), *stuhlmanni* **sp. n.** (7, pl. iii, ff. 1-3, 6, 7), German E. Africa, MRÁZEK, Deutsch Ost - Afrika, Copepoden.—*D. claripes*, (147, pl. xiii f. 6), *saltellinus*, (148, pl. xiv, ff. 9, 10), figured, *wardi* **sp. n.** United States, (148, pl. xiii, ff. 1-4), PEARSE, Trans. Amer. Microsc. Soc., **26**.—*D. pygmaeus* (24, ff. 1-3), *spatulocrenatus* (246, ff. 6-9), **spp. n.**, United States, PEARSE, Amer. Nat., Boston, **40**.—*D. shoshone* figured, *nudus* **sp. n.**, lakes in Colorado, MARSH, Trans. Amer. Microsc. Soc., **25**, (147, pls. xxx, xxxi).

Diosaccus tenuicornis, SARS, Crustacea of Norway, **5**, (146, plates lxxxix, xc).

Disseta grandis **sp. n.**, Californian coast, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **3**, (72, pl. ix, f. 21, xi, ff. 45, 46, xiii, f. 69, xiv, ff. 88, 94).

Dissomus **gen. n.**, (*Caligidæ*), *spiniifer* **sp. n.**, Ceylon, WILSON, Rep. Pearl

Oyster Fish., **5**, (198-202, pl. iii, ff. 34-47).

Ectinosoma brunnea **sp. n.**, salt-water pond, Northumberland, BRADY, Newcastle, Trans. Nat. Hist. Soc., **1**, (333, pl. ix, ff. 4-11).

Echthrogaleus (?) *lütkeni*, description, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (213, pl. xxii, ff. 1-9).

Epischura massachusettsensis **sp. n.**, United States, PEARSE, Amer. Nat., Boston, Mass., **40**, (242, ff. 4, 5).

Eucalanus; descriptions, figures, and key to Californian species, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **2**, (130-135).

Eucandona tuberculata (62), *elpatiewskyi* (64), **spp. n.**, Mongolia, DADAY, Math. Termt. Ért., Budapest, **24**, 1906.

Euehacta affinis **sp. n.**, S. African seas, CLEVE, Cape Town Marin. Invest., S. Africa, **3**, (201, pl. iii, ff. 17-19).—*E. californica* (60, pl. ix, f. 11, x, ff. 26, 34), *propinqua* (61, pl. ix, f. 9, x, ff. 30, 33), *tenuis* (61, pl. ix, f. 12, x, ff. 29, 31), *spinifera* (62, pl. ix, f. 8, xi, f. 35, xiv, ff. 82, 83), *dubia* (63, pl. ix, f. 7, xi, f. 36, xiii, f. 66, xiv, ff. 84, 85), **spp. n.**, Californian coast; *tonsa* Giesb. (64, pl. ix, f. 10, x, f. 32), description, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **3**.

Euchirella, descriptions, figures, and key to Californian species, ESTERLY, *l.c.* **2**, (150-162).

Eurytemora americana **sp. n.**, Rhode Island, WILLIAMS, Amer. Nat., Boston, Mass., **40**, (645, ff. 8-11).

Euterpe acutifrons, description, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **2**, (212).

Evansia **gen. n.** for *Tetragoniceps incertus* and *T. pygmaeus* Scott, SCOTT, Ann. Mag. Nat. Hist., **17**, (460).

Evansula **nom. n.** for *Evansia*, SCOTT, Edinb. Proc. R. Phys. Soc., **16**, (342).

Gaetanus brevicornis (56, pl. ix, f. 4, pl. xii, f. 55), *unicornis* (57, pl. ix, f. 3, pl. xii, f. 54, pl. xiii, f. 76), *clarus* (57, pl. ix, f. 5, pl. xiv, f. 90), **spp. n.**, Californian coast, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **3**.

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Gaidius maximus **sp. n.**, Atlantic, WOLFENDEN, Plankton Studies, **3**, (35, pl. xi, ff. 1, 2).

Giardella thompsoni **sp. n.**, Irish Sea, SCOTT, Liverpool, Proc. Trans. Biol. Soc., **20**, (195, pl. iv).

Gigantella **gen. n.** for *Limnocalanus sarsi*, EKMAN, *Cladocera* and *Copepoda*, Swedish Antarctic Expedition, (20, pl. ii).

Haloptilus longimanus **sp. n.**, Atlantic, WOLFENDEN, Plankton Studies, **3**, (29, pl. ix, ff. 1-6).

Harrietella **gen. n.** for *Laophonte simulans* Scott, SCOTT, Ann. Mag. Nat. Hist., **17**, (464, pl. xi, ff. 9, 10).

Harpacticus chelifer (177, pl. xii, f. 11, xviii, f. 9), *uniremis* (178, pl. xii, f. 12, xviii, f. 8), descriptions, NORMAN and SCOTT, Crustacea of Devon and Cornwall.

Hatschekia ? **sp. n.**, on *Carcharias mulleri*, Ceylon, WILSON, Rep. Pearl Oyster Fish., **5**, (205, pl. v, ff. 58-60).

Hersiliodes pelsenceri commensal with *Leiochone clypeata*, PÉREZ, Bordeaux, Actes soc. linn., **60**, (Proc. verb., xxxi-xxxiii).

Hermannella parva, description, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (199, pl. xiii, f. 15, xv, ff. 4-10, xvi, f. 12, xix, f. 5).

Heterocalanus **gen. n.**, *medius* **sp. n.** (no locality), WOLFENDEN, Plankton Studies, **3**, (27, pl. viii, ff. 1-5).

Heterorhabdus; descriptions, figures, and key to Californian species, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **2**, (182-187).—*H. longicornis* figured, *id. l.c.*, **3**, (77, pl. xiv, f. 93).

Idomene forficata, described SARS, Crustacea of Norway, **5**, (134, pl. lxxxii).

Isocalanus **gen. n.**, *minor*, (36, pl. xii, ff. 1-5), *major*, (37, pl. xii, ff. 6-11), **spp. n.**, Atlantic, WOLFENDEN, Plankton studies, **3**.

Labidocera trispinosa **sp. n.**, Californian coast, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **2**, (200).—*L. jollae* **sp. n.**, Californian coast, *id. l.c.*, **3**, (74, pl. ix, ff. 22, 23, xii, ff. 50-53, xiv, ff. 89, 91).

Laemargus muricatus on *Orithogoriscus mola*, North Berwick, EVANS, Ann. Scot. Nat. Hist., No. 57, (57).

Laophonte serrata (157, pl. xiii, f. 6, xvi, f. 6, xvii, f. 5), *inornata* (157, pl. xii, f. 5, xiii, ff. 5-11, xiv, f. 7, xvi, f. 5, xviii, ff. 3, 4, xxi, f. 3), *herdmani* (159, pl. xi, ff. 5-7, xii, f. 6, xiii, f. 7, xiv, f. 8, xvii, f. 6), descriptions, NORMAN and SCOTT, Crustacea of Devon and Cornwall.—*L. mohammed*, Siam, DADAY, Zool. Jahrb. Syst., 24, (196, pl. xvi, ff. 9-16).—(*L. mohammed* distribution, ZYKOFF, Zool. Anz., 29, (347).)

Laophontina dubia, description, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (165, pl. x, ff. 12-15, xi, f. 8, xii, ff. 7, 8, xv, f. 11, xvi, f. 7, xvii, f. 7, xviii, f. 5).

Lepeophtheirus thompsoni parasitic on *Rhombus maximus*, description, BRIAN, Riv. ital. sc. nat., 26, (125-127).—*L. brachypurus* on *Tetrodon stellatus*, (190, pl. i, ff. 1-10), *aesopus* sp. n. (192, pl. i, ff. 11, 12), Ceylon, WILSON, Rep. Pearl Oyster Fish., 5.

Leposphilus labrei, description of male, larval forms of female, QUIDOR, Paris, C.-R. Acad. sci., 142, (231, 232).

Leptastacus gen. n. for *Tetragoniceps macronyx*, SCOTT, Ann. Mag. Nat. Hist., 17, (461).

Lernanthropus; list of species (135-140), *foliaceus* (140, pl. ii, f. 1), *rorax* (142, pl. ii, ff. 2, 3), *gisleri* (145, pl. ii, f. 2), *brevis* (147, pl. ii, ff. 8, 9), descriptions; *lichiae* (144, pl. ii, f. 4) sp. n. on gills of *Lichia radiata*, Mediterranean, GOGGIO, Pisa, Atti Soc. tosc. sc. nat. Mem., 22.—*L. spp.*, synonymy, GOGGIO, Mon. zool. ital., 17, (352-353).—*L. tetradactylus* Bassett Smith nom. nud., POCHÉ, Zool. Anz., 29, 1906, (671-672).

Lernaeenicus sardinae parasitic on sardine, BAUDOUIN, Rev. sci., Paris, 3, (715-722).

Lucicutia aurita (202), *bradyana*, (204, pl. vi, ff. 33, 34) spp. n., S. African seas, CLEVE, Cape Town, Marin. Invest. S. Africa, 3.—*L. flavicornis*, description, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 2, (180).—*L. ovalis* sp. n., no locality, WOLFENDEN, Plankton Studies, 3, (28, pl. ix, ff. 7-10).

Lütkenia asterodermi, description, NORMAN and SCOTT, Crustacea of Devon

and Cornwall, (210, pl. xxii, ff. 9, 10, xxiv, ff. 1-8).

Mecynocera clausi, description, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 2, (137).

Megacalanus Wolf = *Macrocalanus* Sars, *longicornis* Sars = *bradyi* Wolf. WOLFENDEN, Plankton Studies, 3, (25).

Megarthrum gen. n. for *Dactylopusia purpurocincta* Norman and Scott, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (175, pl. x, f. 17, xii, f. 10, xiii, f. 10, xiv, f. 9, xviii, f. 6, xix, f. 1, xxii, ff. 4, 5).

Mesoglicola gen. n., *delagei* sp. n., parasitic on *Corynactis viridis*, QUIDOR, Paris, C.-R. Acad. sci., 143, (613-615).

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Metridia lucens (177), *boeckii* (178), descriptions, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 2.—*M. atra* (70, pl. ix, ff. 15, 16, pl. xi, ff. 39, 40, pl. xiii, f. 78, pl. xiv, f. 95), *ignota* (71, pl. ix f. 20), spp. n. Californian coast, ESTERLY, l.c., 3.

Microsetella rosea, description, ESTERLY, T.c. 3, (211).

Monstrilla anglica, Irish Sea, SCOTT, Liverpool, Proc. Trans. Biol. Soc., 20, (195, pl. v).

Nicothoa astaci, description of male, QUIDOR, Paris, C.-R. Acad. sci., 142, (465-468).

Nitocera platypus sp. n., Siam, DADAY, Math. Termt. Ért., 24, (273) and Zool. Jahrb. Syst., 24, (192, pl. xv, ff. 10, 14-26, xvi, ff. 1-5).

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Oncaea conifera (216), *minuta* (217), descriptions, ESTERLY, Berkeley Univ. Cal. Pub. zool., 2.

Ophiocamptus mongolicus sp. n. Mongolia, DADAY, Math. Termt. Ért., 24, (34-77).

Orthogoriscola Poche for *Laemargus muricatus* Kröyer, SCOTT, Edinb. Proc. R. Phys. Soc., **16**, (369).

Paracalanus parrus, description, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **2**, (140); larval forms, OBERG, Wiss. Meeresunters., Kiel, Abt. Kiel, **9**, (40, pl. i); *perplexus* var. n. Plymouth, NORMAN and SCOTT, Crustacea of Devon and Cornwall (127, pl. xii, ff. 1-2, xiii, f. 1, xiv f. 1).

Parastenhelia anglica, description, NORMAN and SCOTT, op. cit. (148, pl. x, ff. 10, 11, xiii, ff. 4, 9, xiv, f. 6, xvi, f. 4, xvii, f. 1, xxi, f. 2).

Peltidium conspicuum, description, NORMAN and SCOTT, T.c. (180, pl. xi, f. 9, xiv, f. 11, xv, f. 6, xix, f. 4).

Penella sp., Moluccas, HORST, Leiden, Notes Mus. Jentink, **26**, (229-234).

(*Penella filosa*, post-larval stages. THOMPSON, Biol. Bull., Wood's Holl, Mass., **8**, (296-307).)

Peniculus fureatus on *Tetrodon*, Ceylon, WILSON, Rep. Pearl Oyster Fish., **5**, (206-208, pl. v, ff. 61-66).

Philicthylae, characters, QUIDOR, Paris, C.-R. Acad. sci., **142**, (231).

Philicthys amphivrae sp. n., parasitic in *Amphivra squammata*, HÉROUARD, T.c. (288).

Phylloporopsyllus gen. n. for *Tetragoniceps bradyi*, SCOTT, Ann. Mag. Nat. Hist., **17**, (458).

Phyllops bidentatus, description, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **2**, (191).—*P. turqueti* sp. n., Antarctic, QUIDOR, Bul. Muséum, Paris, **12**, (27), and Paris, C.-R. Acad. sci., **142**, (54, 55).

Phyllothyreus cornutus, description, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (212, pl. xxiv, ff. 9-17).

Pleuromamma; Californian species figured and described, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **2**, (174-177).

Pontella lobiancoi, Irish Sea, SCOTT, Liverpool, Proc. Trans. Biol. Soc., **20**, (194, plates ii, iii).

Pontellopsis occidentalis sp. n. Californian coast, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **3**, (76, pl. xi, ff. 47, 48,

49, xii, f. 59, xiii, f. 68, xiv, ff. 92, 96).

Porcellidium charcoti, affinis, spp. n., Antarctic, QUIDOR, Bul. Muséum, Paris, **12**, (28), and Paris, C.-R. Acad. sci., **142**, (54, 55).—*P. lecanoides*, description, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (182, pl. xiv, f. 12, xv, f. 5, xix, f. 3, xx, f. 7).

Pseudoboeckella anderssonorum sp. n. Subantarctic seas, EKMÁN, *Cladocera* and *Copepoda*, Swedish Antarctic expedition, (10, pl. i, ff. 3-5).

Pseudocalanus elongatus larval forms, OBERG, Wiss. Meeresunters. Kiel Abt. Kiel, **9**, (40, pl. i).

Pseudodiaptomus coronatus sp. n., Rhode Island, WILLIAMS, Amer. Nat., Boston, **40**, (641, ff. 1-7).

Pseudodiosaccus gen. n. for *Diosaccus propinquus*, SCOTT, Ann. Mag. Nat. Hist., **17**, (465).

Pteropsyllus gen. n. for *Tetragoniceps consimilis*, SCOTT, T.c., (459).

Robertsonia tenuis description, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (140, pl. xx, ff. 9-11, xvi, f. 6).

Sabelliphilus (?) *bispirae* sp. n. parasitic on Polychaete *Bispira*, S. African seas, MCINTOSH, Cape Town Marin. Invest., S. Africa, **3**, (86-91, pl. ix).

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Scolecithricella neptuni sp. n., S. African seas, CIEVE, Cape Town Marin. Invest., S. Africa, **3**, (206, pl. iv, v, vi, ff. 30, 31).

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Spinocalanus magnus described, (11, pl. xiv, ff. 1-5), *antareticus* sp. n., Antarctic, (43, pl. xiv, ff. 6-9), WOLFENDEN, Plankton Studies, **3**.—*S. major* sp. n., Californian coast, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **3**, (55).

Stenhelicia, description, synonymy, (180), *gibba* description (181, pl. cxix, cxx, f. 1), *proxima* sp. n., Norway (183, pl. cxx, f. 2), *acmula* (184, pl. cxxi), *palustris* (185, pl. cxxii), *reflexa* (186, pl. cxxiii), *giesbrechti* (188, pl. cxxiv, f. 1), *normani* (189, pl. cxxiv, f. 2), *longicaudata* (190, pl. cxxv, f. 1), descriptions, Sars, Crustacea of Norway, 5.—*S. pygmaea* (142, pl. x, ff. 1-3, xi, ff. 1-2, xv, f. 1, xvi, f. 1, xviii, f. 1), *simulans* (143, pl. x, f. 6, xiii, f. 8, xiv, f. 4, xvii, f. 1, xxi, f. 1), *neglecta* (144, pl. x, f. 4, xi, f. 3, xiii, f. 2, xiv, f. 2, v, ff. 2, 12, xviii, f. 2, xxi, f. 8), *varians* (146, pl. x, f. 5, xiv, f. 13, xv, ff. 4, 14, xvi, f. 3, xvii, f. 2), *longirostris* (147, pl. xi, f. 4, xii, f. 3, xiv, f. 3, xv, ff. 3, 13, xvi, f. 2), descriptions, NORMAN and SCOTT, Crustacea of Devon and Cornwall.

Stenheliosopsis gen. n., *divaricata* sp. n., Norway, Sars, Crustacea of Norway, 5, (191-193, pl. cxxv, f. 2).

Temora longicornis, larval forms, OBERG, Wiss. Meeresunters. Kiel, Abt. Kiel, 9, (43, pl. iii).

Tortanus setacaudatus sp. n. Rhode Island, WILLIAMS, Amer. Nat. Boston, 40, 649, ff. 12-15).

Trebis exilis sp. n. on *Rhinoptera javanica*, Ceylon, WILSON, Rep. Pearl Oyster Fish., 5, (194, pl. ii, ff. 20-33).

Unduchaeta; characters (147), *major* (148), *minor* (149), descriptions, ESTERLY, Berkeley, Univ. Cal. Pub. Zool., 2.

Vallentinia gen. n. for *Dactylopusia ornata*, NORMAN and SCOTT, Crustacea of Devon and Cornwall (173, pl. xiii, f. 11, xiv, f. 10, xvi, ff. 8-10, xviii, f. 7, xix, f. 2, xxi, ff. 4, 5).

Westwoodia nobilis description (140, pl. lxxxv, lxxxvi), *assimilis* sp. n., Norway (141, pl. lxxxvii), *minuta* (142, pl. lxxxviii, f. 1), *pygmaea* (143, lxxxviii, f. 2), descriptions, Sars, Crustacea of Norway, 5.

Xanthocalanus fragilis description, CLEVE, Cape Town Marin. Invest. S. Africa, 3, (209, pl. vi, f. 32).—*X. similis* sp. n., Californian coast, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 3, (68, pl. ix, f. 1, x, f. 24, xii, ff. 60, 61, xiii, ff. 71, 77).—*X. simplex* (30, pl. x, ff. 1-3), S.W. coast of Ireland, *suberistatus* (31, pl. x, ff. 4-6), Atlantic, *magnus* (32, pl. x, ff. 7-9), *ealaminus* (34, pl. xi, ff. 3-5), Bay of Biscay spp. n., WOLFENDEN, Plankton Studies, 3.

BRANCHIURA.

Argulus; affecting salmon-breeding, LÉGER, Ann. Univ. Grenoble, Paris, 18, (49-55).—*A. purpureus* description, RIGGIO, Naturalista sicil., 17, (94, pl. ii, ff. 1-2).

OSTRACODA.

Ostracoda of Valdivia-expedition, MÜLLER, Wiss. Ergebn. D. Tiefsee-Exped., 8, (27-154, 31 pls.); of Malay Seas, MÜLLER, Ostracoden der Siboga - Expedition; of Brunswick, LIENENKLAUS, Bonn. Verh. nat. hist. Ver., 62, (167-172).

†Tertiary *Ostracoda* from Italy, figured; CAPPELLI, Boll. soc. geol. ital., 24, (303-342, pl. ix, xi).

Archiconchoecia cucullata (44), *striata*, *ventricosa* sp. n. (45), MÜLLER, Wiss., Ergebn. D. Tiefsee-Exp., 8, (pl. vii).—*A. striata* description, JUDAY, Berkeley Univ. Cal. Pub. Zool., 3, (16, pl. iii, ff. 1-3).

†*Bairdia beedei* sp. n., *abrupta* var. n., Upper Carboniferous, Kansas, ULRICH and BASSLER, Washington, D.C., U. S. Nation. Mus. Proc., 30, (161, 162, pl. xi, ff. 19-22).

†*Beyrichia?* *radiata*, described, *emaciata* sp. n., Upper Carboniferous, Kansas, ULRICH and BASSLER, T.C. (156, pl. xi, ff. 5, 6).

†*Beyrichiella gregaria* (157, pl. xi, f. 18), *bolliiformis* (158, pl. xi, f. 7, 8) spp. n., *tumida* var. n. (158, pl. xi, ff. 9-11), Upper Carboniferous, Kansas, ULRICH and BASSLER, T.C.

†*Bradoria bergeroni*, *enyo* (99), *eris*, *fragilis* (100), *sterope* (101), *woodi* (102), spp. n., Mid Cambrian, China, WALCOTT, Washington, D.C., Nation. Mus. Proc., 29.

Candonella albida sp. n., German E. Africa, VÁVRA, Deutsch Ost-Afrika, Ostracoden (12, f. 3).

Codonocera weberi (24, pl. viii, ff. 7-9, ix, ff. 1-6), *penicillum* (25, pl. ix, ff. 15-19), *polygonia* (25, pl. ix, ff. 9-14), *pusilla* (27, pl. vii, ff. 14-20), *goniacantha* (28, pl. vii, ff. 10-13, 21, and 22), spp. n., Malay seas, MÜLLER, Ostracoden der Siboga-Expedition.

Conchoecia; Müller describes and figures numerous known species, and the following new: *aequiseta* (59, pl. xi, ff. 1-6 and 11-14), *allotherium* (59, pl. xi, ff. 15-19), *acuticosta* (87, pl. xxx, ff. 18-21), *acanthophora* (108, pl. xxxv, ff. 2-5 and 13), *amblypostha* (108, pl. xxiv, ff. 17-22), *ametra* (117, pl. xxvii, ff. 11-12, 14, and 17-19), *antipoda* (110, pl. xxvi, ff. 5-16), *alata* (121, pl. xxix, ff. 1-10), *brachyaskos* (70, pl. xiv, ff. 1 and 2, and 7-14), *cellularis* (113, pl. xxviii, ff. 7, 18-28), *chuni* (124, pl. xxxi, ff. 16-28), *cophopygia* (74, pl. xiv, ff. 15-17, 24-26), *ctenophora* (96, pl. xxii, ff. 16-20 and 29), *decipiens* (72, pl. xiii, ff. 27-36), *dentata* (73, pl. xiv, ff. 18-23), *dorsotuberculata* (63, pl. x, ff. 1-3 and 8-13), *dasyophthalma* (66, pl. xi, ff. 20-23 and 26-30), *disco-phora* (67, pl. xiii, ff. 1-9 and 12-18), *distans* (111, pl. xxv, ff. 24-26, and pl. xxvi, ff. 1-4), *dichotoma* (111, pl. xxiv, ff. 23-29, and pl. xxv, f. 1), *edentata* (76, pl. xv, ff. 24-29), *elongata* (125, pl. xxxii, ff. 1-7), *echinata* (61, pl. x, ff. 14-24), *glandulosa* (81, pl. xxx, ff. 29-35), *hettaera* (121, pl. xxix, ff. 11-19), *hirsuta* (60, pl. xi, ff. 1-3 and 6-10), *incisa* (94, pl. xix, ff. 1-11), *isoecheira* (84, pl. xiv, ff. 28-31, and pl. xv., ff. 30-33), *kampta* (108, pl. xxiv, ff. 11-12 and 14-16), *kyrtophora* (82, pl. xvii, ff. 1-10), *lophura* (99, pl. xx, ff. 1-10), *leptothrix* (122, pl. xxix, ff. 20-26), *macromma* (79, pl. xvii, ff. 11-22), *macrocheira* (101, pl. xxi, ff. 1-9), *mamillata* (60, pl. xvi, ff. 1-9, and pl. xxxv, f. 8), *mollis* (106, pl. xxiv, ff. 1-10 and 13), *nasotuberculata* (83, pl. xviii, ff. 25-30), *orthotrichota* (93, pl. xix, ff. 12-16), *parvidentata* (100, pl. xx, ff. 11-18), *parthenoda* (78, pl. xvi, ff. 24-29), *plactolycos* (114, pl. xxv, ff. 14-20), *plinthina* (116, pl. xxvii, ff. 1-6, 9-10 and 20), *pusilla* (80, pl. xvi, ff. 30-31, 34-37), *prosadene* (120, pl. xxiii, ff. 1-7, 9), *reticulata* (64, pl. xii, ff. 10-17), *rhynchena* (113, pl. xxvi, ff. 17-25), *squamosa* (119, pl. xxviii, ff. 8-17, and pl. xxxv, ff. 6 and 7), *stigmatiea* (88, pl. xxx, ff. 22-28), *symmetrica* (117, pl. xxvii, ff. 7, 8, 13, 15 and 16), *tyloda* (109, pl. xxxv, ff. 2-13), *valdiviae* (123, pl. v, f. 3, pl. xxiii, ff. 8 and 10-19), **spp. n.**; Wiss. Ergebn. D. Tiefsee-Exp. 8.—*C. daphnoides* Cl. minor (126, pl. xxxi, ff. 1-3, 9, 15), *loricata* Cl. minor (96, pl. xxii, ff. 10-15), *magna* Cl. *rhombica* (104, pl. xxi, ff. 21-25), *plactolycos* Müll. *major* (115, pl. xxv, ff. 21-23), *pusilla* Müll. *major* (80, pl. xvii, f. 35), *minor* (80, pl.

xvii, f. 36), *obtusata* Sars *antarctica* (77, pl. xvi, ff. 10-23), varr. n., id. T.c.—*C. giesbrechti* for *oblonga* Müll. *praeocc.* (75), *striola* for *striata* Müll. *praeocc.* (91), nomm. n., MÜLLER, T.c.—*C. spinirostris* Cl. (18, pl. iii, ff. 4-7), *magna* Cl. (19, pl. iii, ff. 8-11, pl. xiv, ff. 1, 2), *hyalophyllum* Cl. (20, pl. iv, ff. 3, 4), *clausi* Sars (23, pl. v, ff. 3, 4), *daphnoides* Cl. (26, pl. vii, f. 3), descriptions; *pacifica* for *oblonga* Müll. (21), *mülleri* for *striata* Müll. (24), nomm. n.; *ritteri* **sp. n.**, Californian coast (25, pl. vi, ff. 6-8, pl. vii, ff. 1-2), JUDAY, Berkeley Univ. Cal. Pub. Zool. 3.—*C. spinirostris* (31, pl. i, f. 7), *subarcuata* (33, pl. i, ff. 8-12), *obtusata* (36, pl. i, ff. 13-19), *oblonga* (38, pl. ii, ff. 21-28), *spinifera* (40, pl. ii, ff. 29-36), *elegans* (41, pl. ii, ff. 37-40, pl. iii, ff. 11-13), *acuminata* (43, pl. iii, ff. 44-48), *daphnoides* (45, pl. iii, ff. 49-55), *borealis* (48, pl. iii, ff. 56-63, pl. iv, f. 64), *had-doni* (49, pl. iv, ff. 65-75), *agassizii* (50, pl. iv, ff. 76-84, pl. v, ff. 85-91), described, *hamata* (52, pl. v, ff. 92-99); *insignis* (56, pl. v, ff. 105-107, pl. vi, ff. 108-113), *notocera* (58, pl. vi, ff. 114-120), *secernenda* (59, pl. vi, ff. 121-127), **spp. n.**, Atlantic, VÁVRA, *Ergebn.* Plauktion-Exp. 2.—*C. belgicae* **sp. n.**, Antarctic, MÜLLER, *Belgica Ostracoda* (4, ff. 1-11).—*C. sibogae* (8, pl. i, ff. 10-20), *concentrica* (10, pl. i, ff. 1-9), **spp. n.**, Malay Seas, MÜLLER, *Ostracoden der Siboga-Expedition*.

Crossophorus africanus description, MÜLLER, *Wiss. Ergebn. D. Tiefsee-Exp.* 8, (134, pl. xxxiv, ff. 1-9).—*C. gibber* **sp. n.**, Malay Seas, MÜLLER, *Ostracoden der Siboga-Expedition* (28, pl. iv, ff. 1-9).

Cylindroleberis hilgendorfi (33, pl. v, ff. 1-5), *inermis* **sp. n.** (34, pl. v, ff. 6-13), Malay Seas; MÜLLER, T.c.

Cypria javana **sp. n.**, Java, MÜLLER, *Hamburg Mitt. naturhist. Mus.*, 23, Beiheft 2, (14, ff. 1-5).

†*Cypridea punctata*, *posticalis*, *ren-trosa*, forming limestone in Dorset, CHAPMAN, London, *Proc. Geol. Ass.*, 19, (284).

Cypridella remota **sp. n.**, Sumatra VÁVRA, *Zool. Jahrb. Syst.* 23 (430, pl. xxv, ff. 34-36).

Cypridina hirsuta **sp. n.** (131, pl. xxxiii ff. 1-10); *castanea* Brady (130, pl. v

f. 1, 2, pl. xxxiii, ff. 11-16, pl. xxxiv, ff. 10-13) description; MÜLLER, Wiss., *Ergebn. D. Tiefsee-Exp.*, **8**.—*C. obesa* sp. n., Atlantic, VÁVRA, *Ergebn. Plankton-Exp.* **2** (67, pl. vii, ff. 132b-142).—*C. asymmetrica* (14, pl. vi, ff. 1-12), *hesperida* (15, pl. iii, ff. 21-28), Malay Seas, spp. n.; *flavcola* description (16, pl. iii, f. 28); MÜLLER, *Ostracoden der Siboga-Expedition*.—†*C. subovata* sp. n., Upper Carboniferous Kansas; ULRICH and BASSLER, Washington, D.C., U. S. Nation. Mus. Proc. **30** (162, pl. xi, ff. 23-26).

Cypridopsis costata sp. n., German E. Africa, VÁVRA, *Deutsch Ost-Afrika Ostracoden* (11, f. 2).

Cyprinotus kaufmanni sp. n., Japan, VÁVRA, *Zool. Jahrb. Syst.* **23** (424, pl. xxiv, ff. 15-20).—*C. elatior* (18, f. 6), *congener* (20, f. 7), *fossulatus* (21, f. 8), spp. n., German E. Africa, VÁVRA, *Deutsch Ost-Afrika Ostracoden*.—*C. sarsi* sp. n., New Zealand, BRADY, London, *Proc. Zool. Soc.*, **1906**, (700, pl. li, ff. 1-11).

Cypris purpurascens, VÁVRA, *Zool. Jahrb. Syst.* **23** (422, pl. xxiv, f. 14).—*C. venusta* (23, f. 9), *flabella* (25, f. 10), *puberoides* (27, f. 11), spp. n., German E. Africa, VÁVRA, *Deutsch Ost-Afrika Ostracoden*.—*C. kraepelini* sp. n., Java, MÜLLER, Hamburg, *Mitt. Naturhist. Mus.*, **23**, Beiheft 2, (139, ff. 1-7).

†*Cythere?* *haworthi* sp. n., Upper Carboniferous, Kansas, ULRICH and BASSLER, Washington, D.C., *Smithsonian Inst.*, U. S. Nation. Mus. Proc., **30**, (160, pl. xi, f. 12).

Cythereis phalaropi, (378, pl. xxxv, ff. 86-94, pl. xxxvi, ff. 95, 96), *arenicola*, (379, pl. xxxvi, ff. 97-107), *vineyardensis*, (380, pl. xxxvii, ff. 110-114), spp. n., North America, CUSHMAN, Boston, Mass., *Proc. Soc. Nat. Hist.*, **32**.

Cytheridea seminuda, (374, pl. xxxiii, ff. 62-64, pl. xxxiv, ff. 76, 77), *americana*, (375, pl. xxxiii, f. 67, pl. xxxiv, ff. 68-75), spp. n., North America, CUSHMAN, T.c.

Cytherideis hedleyi sp. n., off Great Barrier Is., N. Zealand, CHAPMAN, Wellington, *Trans. and Proc.*, N. Zeal. Inst., **38**, (110, pl. iii, f. 8).

Cytherois zostericola sp. n., North America, CUSHMAN, Boston, Mass., *Proc.*

Soc. Nat. Hist., **32**, (369, pl. xxxi, ff. 35-41).

Euconchocia chierchiaie, (128, pl. xxxii, ff. 8-17), *aculeata elongata* var. n., (129, pl. xxxii, ff. 18-26), MÜLLER, *Wiss. Ergebn. D. Tiefsee-Exp.*, **8**.—*E. chierchiaie* Atlantic, VÁVRA, *Ergebn. Plankton-Exp.*, **2**, (29, pl. i, ff. 1-6).

Eurycypris subglobosa, Java, VÁVRA, *Zool. Jahrb. Syst.*, **23**, (420-422, pl. xxiv, ff. 9-13).

Halocypris taurina sp. n., Atlantic, VÁVRA, *Ergebn. Plankton-Exp.*, **2**, (66, pl. vii, ff. 128-132A).—*H. striata*, (47, pl. viii, ff. 20-23), *cornuta*, (48, pl. v, ff. 8, 9, pl. viii, ff. 1-3, 5-7), spp. n., *dispar* var. n., (48, pl. viii, f. 4), *bicornis* sp. n., (49, pl. viii, ff. 8-12, 17), Atlantic and Indian Oceans, MÜLLER, *Wiss. Ergebn. D. Tiefsee-Exp.*, **8**.—*H. pelagica* description, JUDAY, Berkeley, Univ. Cal. *Pub. Zool.*, **3**, (27, pl. vii, ff. 4-7).

Hungarocypris gen. n., (*Cypridae*), *gaudemülleri* sp. n., Siam, VÁVRA, *Zool. Jahrb. Syst.*, **23**, (416-419, pl. xxiv, ff. 1-8).

Ilyocyprinae and *Ilyocypris*, characters, descriptions of known species, (133-256), *bradyi compressa* var. n. for *bradyi* Kaufmann, (256), MASI, *Boll. Soc. Zool. ital.*, **6**.

Ilyocypris gen. n., for *Ilyocypris tuberculata* Kertész, MASI, T.c., (261).

Ilyodromus kerguelensis sp. n., Kerguelen, MÜLLER, *Wiss. Ergebn. D. Tiefsee-Exp.*, **8**, (136, pl. xxxv, ff. 8-12, 14-19).

†*Kirkbya*, (*Kirkbyidae* fam. n.), *pinquius*, (159, pl. xi, ff. 13-15), *centronota*, (159, pl. xi, ff. 16, 17), spp. n., Upper Carboniferous, Kansas, ULRICH and BASSLER, Washington, D.C., U. S. Nation. Mus. Proc., **30**.

†*Leperditellidae* fam. n. for *Leperditia*, ULRICH and BASSLER, T.c., (149).

†*Leperditia balthica* Hisinger var. *guelpfica* description, CLARKE and RUEDEMANN, Albany Univ., N.Y., *Mem. St. Mus. Mem.*, **5**, (106, pl. xxi, 9-11).

Limnocythere notodonta sp. n., Java, VÁVRA, *Zool. Jahrb. Syst.*, **23**, (431, pl. xxv, ff. 37-43).

Newnhamia fenestrata New Zealand, BRADY, London, *Proc. Zool. Soc.*, **1906**, (698, pl. xlviii, ff. 6-9, pl. li, ff. 1-13).

Paradoxostoma magellanica **sp. n.**, Magellan Straits, MÜLLER, Belgica Ostracoda, (7, ff. 12-15).

†*Paraparchites* **gen. n.**, *humerosus* **sp. n.**, Upper Carboniferous, Kansas, ULRICH and BASSLER, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc., **30**, (151, pl. xi, ff. 1-4).

Physoecypria **gen. n.**, *bullata* **sp. n.**, German E. Africa, VÁVRA, Deutsch Ost-Afrika Ostracoden, (7, f. 1).

Pontocypris edwardsi **sp. n.**, North America, CUSHMAN, Boston, Mass., Proc. Soc. Nat. Hist., **32**, (368, pl. xxx, ff. 26-34).

†*Primitia* **sp. n.**, Ordovician Ottawa, AMI, Rep. Geol. Surv., Can., **14**, (85 J).

Proteocypris **gen. n.**, *salina* **sp. n.** salt-water pond, Northumberland, BRADY, Newcastle, Trans. Nat. Hist. Soc., **1**, (334, pl. x, ff. 1-12).

Pseudocytheretta **gen. n.**, (*Cytheridae*) *edwardsi* **sp. n.**, North America, CUSHMAN, Boston, Mass. Proc. Soc. Nat. Hist., **32**, (382, pl. xxxviii, 119-132).

Pyrocypris acuminata (18, pl. ii, ff. 1-5), *sinuosa* (19, pl. ii, ff. 11-16), *inermis* (19, pl. ii, ff. 6-10), *dentata* (20, pl. ii, ff. 17-21), *serrata* (20, pl. iii, ff. 1-7), *amphiacantha* (21, pl. iii, ff. 8-12), *lepidophora* (21, pl. iii, ff. 13-23), **spp. n.**, Malay seas, MÜLLER, Ostracoden der Siboga-Expedition.

Sarsiella americana (363, pl. xxvii, ff. 1-6), *zostericola* (364, pl. xxviii, ff. 7-18), **spp. n.**, North America, CUSHMAN, Boston, Mass., Proc. Soc. Nat. Hist., **32**.

Stenocypris bimucronata, Siam (428, pl. xxv, ff. 25-33), *derupta*, Java (426, pl. xxiv, ff. 21-24), **spp. n.**, VÁVRA, Zool. Jahrb. Syst. **23**.—*S. malcolmsoni*, description (14, f. 4), *exsiccata*, **sp. n.**, German E. Africa, (16, f. 5), VÁVRA, Deutsch Ost-Afrika Ostracoden.

Thaumatoecypria **gen. n.**, *Halocypridae* (41, pl. vi), *echinata* **sp. n.** (42), MÜLLER, Wiss. Ergebn. D. Tiefsee-Exp., **8**.

CIRRIPEDIA.

Cirripedia, figured and described, SCHMALZ, C. Cirripedia (=Martini u. Chemnitz, Systematisches Cochylien-Cabinet, Lfg 509-510 = Bd 11, H. 27-28 = Sect. 170), (1-82), Tfn. 14).

(*Cirripedia*, structure, classification, GRUVEL, Nouv. Arch. Muséum, Paris, **6**, (51-224, av. pl.); Monographie des Cirrhipèdes ou Thécostraces (xiii + 476, av. fig.).)

Larval forms, TESSMANN. Beiträge zur Entwicklungsgeschichte der Cirripeden, [1904], (38), 2 Tfn.

†Fossil *Cirripedia*; descriptions and figures of Italian Tertiary species; ALESSANDRI, Palaeontogr., Ital., **12**, (207-324, pl. xiii-xviii). Only the new species are recorded below.

Acasta funiculorum **sp. n.**, Ceylon, ANNANDALE, Rep. Pearl Oyster Fish., **5**, (145, ff. 5-9).

(*Aerothoracica* nom. n. for *Abdominalia* Darwin, GRUVEL, Monogr. Cirrhipèdes.)

Alepas xenophorae, **sp. n.**, Indian Ocean, ANNANDALE, Ann. Mag. Nat. Hist., **17**, (399).

†*Archaeolepas decora* **sp. n.**, Lower Cretaceous, Germany, HARBORT, Berlin, Abh. geol. Landesanst. **45**, (22, pl. i, ff. 3-10).

(*Balanus psittacus* description, VAYSSIÈRE, Ann. Fac. Sci., Marseille, **15**, (161-170, fig.).)

†*Brachylepas cretacea*, H. Woodward recorded from France and Germany, BÖHM, Centralbl. Min., Stuttgart, 1906, (449-450).—*B. cretacea*, Woodward (337), *fallax* Darwin (340), **sp. ?** (353) Norfolk, WOODWARD, Geol. Mag., **3**.

Conchoderma virgatum var. *hunteri* on *Hydrus platurus* Ceylon, ANNANDALE, Calcutta, J. Proc. As. Soc., **2**, (207).

Dichelaspis equina (139), *pellucida* (140, ff. 1-2), Ceylon, ANNANDALE, (5), Rep. Pearl Oyster Fish., **5**.—*D. tenuivalvata* **sp. n.**, Ceylon on *Hydrus platurus*, ANNANDALE, Spolia Zeylan. **3**, (193).—*D. transversa* (44, ff. 1 and 1A), Persian Gulf, *bathynomi* (45, f. 2), Indian Ocean **spp. n.**, ANNANDALE, Ann. Mag. Nat. Hist., **18**.

Duplorbis **gen. n.** (*Rhizocephala*), *calathurae* **sp. n.** on *Calathura brachiata* Greenland, SMITH, Fauna Neapel, **29**, (118, pl. viii, ff. 9-19).

Heterosaccus **gen. n.** (*Rhizocephala*), *hians* **sp. n.** on *Charybdis ornata*, Suez Canal, SMITH, T.c. (113).

†*Lepas saccei* **sp. n.**, Miocene, Italy, ALESSANDRI, Palaeontogr. Ital. Pisa, **12**, (269, pl. xiv, f. 10).

Lernaeodiscus galathea, *strigosae* **spp. n.** on *Galathea* spp., Naples and Norway, SMITH, Fauna Neapel **29**, (114).

Megalasma striatum minus subsp. n., Indian Ocean, ANNANDALE. Ann. Mag. Nat. Hist., **17**, (399).

Pellogaster, endoparasitic development, SMITH, Fauna Neapel, **29**, (54-58, pl. vi, ff. 1-6).—*P. curvatus*, amoeboid parasite of embryos, CAULLEY, Paris, C.-R. Soc. biol., **61**, (266-268, fig.).

†*Pollicipes angelini* (346), *hausmanni* (347), *striatus paucistriatus* var. n., *eoneinna* **sp. n.** (348), *glaber* (350), Norfolk, WOODWARD, Geol. Mag., **3**.

Pyrgopsis **gen. n. annandalei sp. n.**, no locality, GRUVEL, Paris, C.-R. Acad. Sci., **142**, 1906, (1558).

Rhizocephala, anatomy and development, diagnoses of genera, SMITH, Fauna Neapel, **29**, (1-123, pl. i-viii).

Sacculina interna, biology and development, SMITH, T.c., (45-53, pl. v, ff. 1-18).—*S. galathea* **sp. n.** on *Galathea intermedia*, Plymouth, NORMAN and SCOTT, Crustacea of Devon and Cornwall (226).

Scalpellum discoveryi (271), *bouvieri* (272), **spp. n.**, Antarctic, GRUVEL, Bul. Muséum, Paris, **12**.—*S. gruvellii* **sp. n.** (390), *quadratum* var. n. (391), *aleoekianum* **sp. n.** (392), *laccadivicum* **sp. n.** (393), *investigatoris* var. n., *bengalense* (395), *wood-masoni* (396), *subflarum* (397), **spp. n.**, Indian Ocean, ANNANDALE, Ann. Mag. Nat. Hist., **17**.—*S. gruvellii*, Ceylon, ANNANDALE, Rep. Pearl Oyster Fish., **5**, (141, f. 4).—*S. maximum* (350), *fossula*, described, *attenuatum* **sp. n.**, Norfolk, (352), WOODWARD, Geol. Mag., **3**.—*S. stearnsi* polyanthry, HOEK, Amsterdam, Proc. Sci. K. Acad. Wet., 1906, (659-662), also Amsterdam Versl. Wis. Nat., **14**, (669-671).—†*S. michelottianum gassinensis* var. n. (252, pl. xiii, ff. 10-15), *formae* **sp. n.** (251, pl. xiii, ff. 16-20), Tertiary, Italy, ALESSANDRI, Palaeontogr., Ital. Pisa, **12**.

†*Scillaelepas paronae* **sp. n.**, Miocene, Italy, ALESSANDRI, T.c. (265, pl. xiv, ff. 1-8).

(*Thecostraca* nom. n. for *Cirripedia*. GRUVEL, Monogr. Cirripèdes.)

Triangulus **gen. n.** (*Rhizocephala*) *munidae* **sp. n.** on *Munida* spp., Norway, SMITH, Fauna Neapel, **29**, (115).

†*Verruca miocrebicosta* (275 pl. xiv, ff. 18-23), *gruvelli* (278, pl. xv, ff. 1-6), Miocene, Italy, ALESSANDRI, Palaeontogr. Ital., **12**.

XI. ARACHNIDA

TO WHICH ARE ADDED

GIGANTOSTRACA (XIPHOSURA, TRILOBITA, EURYPTERIDA),
PANTOPODA, TARDIGRADA, PENTASTOMIDA, MYRIOPODA
and PROTOTRACHEATA

ARRANGED BY

R. SHELFORD

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GIGANTOSTRACA.

I.—TITLES.

N.B.—Titles in round brackets have appeared previously in the Zoological Record: titles in square brackets have appeared in previous issues of the International Catalogue.

Carlson, A. J. 1. On the mechanism of co-ordination and conduction in the heart, with special reference to the heart of *Limulus*. Amer. J. Physiol., Boston, Mass., **15**, 1906, (99–120).

Carlson, A. J. 2. On the chemical conditions for the heart activity, with special reference to the heart of *Limulus*. Amer. J. Physiol., Boston, Mass., **16**, 1906, (378–408).

Carlson, A. J. 3. On the point of action of drugs on the heart, with special reference to the heart of *Limulus*. Amer. J. Physiol., Boston, Mass., **17**, 1906, (177–210).

Clarke, J. M. The Oriskany fauna of Becraft Mountain, Columbia County, N.Y. Albany Univ., N.Y., St. Educ. Dept. Mem. Mus., **3**, No. 3, 1900, (1–128), pls. i–ix.

Clarke, J. M. and Ruedemann, R. Guelph fauna in the State of New York. Albany Univ., N.Y., St. Educ. Dept. Mem. Mus., **5**, 1903, (1–195), pls. i–xxi.

Cumings, E[dgar] R[oscoe]. *Gastropoda, Cephalopoda and Trilobita* of the Salem limestone. [In] Cumings, E. R. and others. Fauna of the Salem limestone. Indiana, Rep. Dept. Geol. Nat. Res., Indianapolis, **30**, (1905), 1906, (1335–1375), pl.

Frech, Frigyes. A tengeri eredetű karbon Magyarországon. [Das marine Karbon in Ungarn.] Földt. Közl., Budapest, **36**, 1906, (1–50, 103–153), Taf. i–ix.

Gortani, M. 1. Fossili Carboniferi del M. Pizzul e del Piano di Lanza nelle

Alpi Carniche. II. Fossili Animali. Roma, Boll. soc. geol. ital., **24**, 1905, (521–605), pls. xiv–xv.

Gortani, M. 2. Contribuzioni allo studio del Paleozoico Carnico. I. La fauna Permocarbonifera del col mezzodi presso forni avoltri. Palaeontogr. Italica, Pisa, **12**, 1906, (1–84), pls. i–iii.

Grabau, A. W. Guide to the geology and palaeontology of the Schoharie valley in Eastern New York. Albany Univ., N.Y., St. Educ. Dept. Mus. Bull., **92**, (Pal. **13**), 1906, (77–386), pls. i–xxiv.

Hudson, G. H. Contributions to the fauna of the Chazy limestone on Valcour Island, Lake Champlain. Albany Univ., N.Y., Rep. St. Mus., **57**, Part 1, 1905, (270–295), pls. i–v.

Jackson, R. T. A new species of fossil *Limulus* from the Jurassic of Sweden. Ark. Zool., Stockholm, **3**, 1906, No. 11, (1–7).

Lake, P. 1. A monograph of the British Cambrian Trilobites. London, Monogr. Palaeont. Soc., **60**, Part 1, 1906, (1–28), pls. i–ii.

Lake, P. 2. Trilobites from Bolivia, collected by Dr. J. W. Evans in 1901–1902. London, Q. J. Geol. Soc., **62**, 1906, (425–430), pl. xl. [Noticed in Knowledge, 1906, (568).]

Lamanskij, W. Die ältesten silurischen Schichten Russlands (Etage B). St. Petersburg, Mém. Com. géolog., N. ser., **20**, 1905, (1–203), 2 pls.

Lorenz, Th[eo]. Beiträge zur Geologie und Palaeontologie von Ostasien unter besonderer Berücksichtigung der Provinz Schantung in China. Berlin, Zs. D. geol. Ges., **57**, 1905, Aufsätze, (438–498); **58**, 1906, (53–108), 8 Taf.

Miquel, J. Essai sur le Cambrien de la Montagne Noire, Coulouma. L'Aca-dien. Paris, Bul. soc. géol., (4), **5**, 1905, (465–483), pl. xv.

Narraway, J. E. and Raymond, P. E. A new American *Cybele*. Pittsburg, Pa., Ann. Carnegie Mus., **3**, 1906, (599–604).

Newman, H. H. On the respiration of the heart, with special reference to the heart of *Limulus*. Amer. J. Physiol., Boston, Mass., **15**, 1906, (371–386).

Ogawa, T. Fossil localities of North China, II. Tokyo, J. Geol. soc. Tokyo, **12**, 1905, (71–80). [The paper is in Japanese, but contains in Latin the names of several species of *Trilobita*, some of which are cited as new, but there is no published description of them; they are not quoted in this record.]

Olin, E. Om de Chasmopskalken och Trinucleusskiffern motsvarande bildningarne i Skåne. [On the Scania formations corresponding to the *Chasmops*-Limestone and the *Trinucleus*-Slate.] Lund, Univ. Arssk. N. F., **2**, ii. 3, 1906, (1–79), pls. i–iv.

Pack, F. J. Cambrian fossils from the Pioche mountains, Nevada. J. Geol., Chicago, Ill., **14**, 1906, (290–302), 3 pls.

Pearl, Raymond. On the behavior and reactions of *Limulus* in early stages of its development. J. Comp. Neur., Granville, Ohio, **14**, 1904, (138–164).

Persson, E. Till Kännedomen om Oleniderna i "Zonen med *Eurycare* och *Leptoplastus*" vid Andrarum I. [Contribution to a knowledge of the Mollusca in the *Eurycare*- and *Leptoplastus*-Zones at Andrarum I.] Stockholm, Geol. För. Förh., **26**, 1906, (507–526) pls. viii and ix.

Post, L. von. Bidrag till Kännedomen om Ceratopygeregionen utbildning inom Falbygden. [Contribution to a knowledge of the development of the Ceratopyge-region in Falbygden.] Stockholm, Geol. För. Förh. **28**, 1906, (465–480), pl. xiii.

(**Raymond, Percy E.** The Trilobites of the Chazy limestone. Pittsburg, Pa., Ann. Carnegie Mus., **3**, 1905, (328–386), pl.

Raymond, P. E. *vide* Narraway, J. E.

Reed, F. R. C. The lower Palaeozoic Trilobites of the Girvan district, Ayrshire. London, Monogr. Palaeont. Soc., **60**, 1906, (97–186) pls. xiv–xx.

Ruedemann, R. *vide* Clarke, J. M.

[**Schmidt, F. 1.** Über die neue Merostomenform *Stylonurus* (?) *simonsoni*

aus dem Obersilur von Rotziküll auf Oesel. St. Petersburg, Bull. Ac. Sc. ser. 5, **20**, 1904, (99–105) pl.]

Schmidt, F. 2. Revision der ostbaltischen silurischen Trilobiten. Abth. V. Asaphiden. Lief. IV. Gattung *Megalaspis*. St. Petersburg, Mém. Ac. Sc., 8 sér., **19**, 10, 1906, (1–62), pls. i–viii.

Schuchert, C. Geology of the lower Amazon region. J. Geol., Chicago, Ill., **14**, 1906, (722–746).

Schwarz, E. H. L. South African Palaeozoic fossils. Grahamstown, Cape Colony, Rec. Albany Mus., **1**, 1903–1906, (345–404), pls. vi–x.

Siemiradski, J. von. Die paläozoischen Gebilde Podoliens. II. Paläontologischer Teil. Wien, Beitr. Pal. Geol. Öst.-Ung., **19**, 1906, (213–286), pls. xv–xxi.

Slocum, A. W. A list of Devonian fossils collected in Western New York, with notes on their stratigraphic distribution. Chicago, Ill., Pub. Field Columb. Mus., Geol. ser., **2**, 1906, (257–265), pl. lxxix.

Törnquist, S. L. Födröjda paleontologiska Meddelanden. [Belated palaeontological information.] Stockholm, Geol. För. Förh., **27**, 1905, (452–457).

Walcott, C. D. Cambrian faunas of China. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **29**, 1906, (1–106), and **30**, 1906, (563–595).

Whiteaves, J. F. 1. Preliminary list of fossils from the Silurian (Upper Silurian) rocks of the Ekwan river and Sutton Mill lakes, Keewatin, collected by D. B. Dowling in 1901, with descriptions of such species as appear to be new. Rep. Geol. Surv. Can., Ottawa, **14**, 1904 [1905], (38 F–59 F).

Whiteaves, J. F. 2. Palaeozoic fossils, **3**, 1906, pt. iv, (243–352), pls. xxiii–xlii. Ottawa, Geol. Surv. Canada.

Wiman, C. 1. Iakttagelser på *Nileus armadillo* Dalm. [Notes on *Nileus armadillo* Dalm.] Stockholm, Geol. För. Förh., **26**, 1904, (87–90).

Wiman, C. 2. Palaeontologische Notizen 7–12. Upsala, Bull. Geol. Inst., **7**, 1906, No. 13–14 (287–296), pls. xxix–xxx.

Woodward, H. 1. Notes on a series of Trilobites obtained by Mr. Howard Fox, F.G.S., from the Devonian of Cant Hill, St. Minver, Cornwall. Penzance, Trans. R. Geol. Soc., Cornwall, **13**, 1905, (57-62), pl. i.

Woodward, H. 2. On a carboniferous Trilobite from Angram, in Nidderdale. Yorks. Proc. Geol. Soc., N. ser., **16**, 1906, (84-86).

Želízko, J. V. 1. Nové příspěvky k poznání fauny pásma D-d_{IX} středočeského siluru. [Further contribution to a knowledge of the fauna of zone D-d_{IX} of the Silurian of Central Bohemia.] Prag, Sitzber. Böhm. Ges. Wiss., **1905**, No. 11, (1-7).

Želízko, J. V. 2. Geologicko-palaeontologické poměry nejbližšího okolí Rožmitálu. [Geologico-palaeontological conditions in the immediate neighbourhood of Rosenthal.] Prag, Rozpr. České Ak. Frant. Jos., **15**, 1906, No. 42 (1-26), pls. i and ii.

II.—SUBJECT-INDEX.

PHYSIOLOGY = 2811.

Reactions of *Limulus* in early stages; **Pearl**.

Physiology of the heart in *Limulus*; **Carlson, 1, 2, 3, Newman**.

DISTRIBUTION = 2827.

(Geological and Geographical.)

China, fossil localities; **Ogawa**.

Cambrian.

Great Britain, *Trilobita* 2 spp. n.; **Lake, 1**.

China, *Trilobita* 3 genn. n., 10 spp. n., 2 varr. n.; **Lorenz**.

China, *Trilobita* genn. n., spp. n., varr. n.; **Walcott**.

Coulouma, *Trilobita* 5 spp. n.; **Miquel**.

Nevada, *Trilobita* 2 spp. n.; **Pack**.

Ordovician.

British Isles, *Trilobita* spp. n., varr. n.; **Reed**.

Bohemia, *Trilobita* and *Eurypterida*; **Siemiradski**.

Bohemia, *Eurypterida* 1 sp. n.; **Seemann**.

Canada, *Trilobita* 1 sp. n.; **Narraway** and **Raymond**.

United States, *Trilobita*; **Hudson**.

(New York, Chazy limestone, *Trilobita*; **Raymond**.)

Silurian.

Sweden, *Trilobita* 18 spp. n.; **Olin, Persson, Post, Törnquist, Wiman**.

Eastern shores of Baltic, *Trilobita* 2 spp. n., 4 varr. n.; **Schmidt, 2**.

Russia, *Trilobita* 6 spp. n., 2 var. n.; **Lamanskij**.

British Isles, *Trilobita* spp. n., varr. n.; **Reed**.

Bohemia, *Trilobita* 2 spp. n.; **Želízko, 1, 2**.

Canada, *Trilobita* 2 spp. n.; **Whiteaves, 1, 2**.

New York, *Trilobita*; **Clarke** and **Ruedmann, 2**.

Bolivia, *Trilobita* 2 spp. n.; **Lake, 2**.

Devonian.

British Isles, Cornwall, *Trilobita*; **Woodward, 1**.

South Africa, *Trilobita*, 8 spp. n.; **Schwarz**.

Columbia County, New York, *Trilobita* 5 spp. n., 1 var. n.; **Clarke, 1**.

Western New York, *Trilobita*; **Slocum**.

Eastern New York, *Trilobita*; **Grabau**.

Indiana, *Trilobita*; **Cummings**.

Lower Amazons, *Trilobita*; **Schuchert**.

Carboniferous.

Yorkshire, British Isles, *Trilobita* **Woodward, 2**.

Italy, *Trilobita*; **Gortani 1**.

Hungary, *Trilobita*; **Frech.**

Permo-Carboniferous; Italy, *Trilobita*
var. n.; **Gortani, 2.**

Jurassic.

Sweden, *Limulus* 1 sp. n.; **Jackson.**

III.—SYSTEMATIC=2831.

† TRILOBITA.

Trilobita from Cambrian, Great Britain, LAKE London, Monogr. Palaeont. Soc. **60** Part 1 (1-28) pls. i and ii.

Trilobita from Cambrian of Black Mountain, Coulouma, MIQUEL Paris Bul. soc. géol. (4) **5** (465-483).

Trilobita from Palaeozoic, Ayrshire, Scotland REED London, Monogr. Palaeont. Soc. **60** (97-186) pls. xiv-xx.

Acidaspis törnquisti **sp. n.** Silurian, Sweden OLIN Lund, Univ. Arssk. N. F. **2** ii 3 (49) pl. i f. 18, 19.—*A. perarmata* description WHITEAVES Palaeoz. Fossils **3** pt. 4 (289) pl. xlii f. 3.

Agnostus securiger (20) pl. ii f. 11, *calvus* (23) pl. ii f. 18, Cambrian, England, **sp. n.**, LAKE London, Monogr. Palaeont. Soc. **60** Part 1.—*A. trinodus* (72) pl. iv ff. 15, 16; *cingulatus* (72) pl. iv f. 17 Silurian, Sweden **sp. n.**, OLIN Lund Univ. Arssk. N.F. **2** ii 3 —*A. fallax*, *laetevensis* (82) pl. iv ff. 7, 8, v ff. 8 and 9, *parvifrons*, *latelimbatus* (84) pl. iv f. 9, v ff. 10, 11, varr. n., Mid Cambrian, China, LORENZ Berlin Zs. D. geol. Ges. **58**.—*A. kusanensis* **sp. n.** Mid Cambrian, Shantung, WALCOTT Washington D.C., Nation. Mus. Proc. **29** (22).

Agraulos abaris (42), *abrota*, *acalle*, (43), *agenor*, *dirce*, (44), *divi*, *dolon*, (45), *dryas* (46), **sp. n.**, Mid Cambrian, Shantung WALCOTT T.c.—*A. armatus*, *nitida*, (576), *obscura* (577), *regularis* (578), *uta*, *vicina* (579), (?) *capax* (580), *melie* (581), **sp. n.**, Mid. Cambrian, China WALCOTT op. cit. **30**.

Alokistocare **gen. n.** for *Ptychoparia subcoronata* LORENZ Berlin Zs. D. geol. Ges. **58** (62).

Amphoton **gen. n.**, *steinmanni* **sp. n.** Mid Cambrian, China, LORENZ, Berlin Zs. D. geol. Ges. **58** (66, 75) pl. iv ff. 15-17.

Ampyx incurvus **sp. n.** Ordovician, Scotland, REED London, Monogr. Palaeont. Soc. **60** (161) pl. xx ff. 6-8.—*A. portlocki* (69) pl. iv ff. 5-8, *rostratus* (70) ff. 9 and 10, *tenellus* (71) ff. 11, 12; *globifrons* (71) f. 13 **sp. n.** Silurian Sweden; OLIN Lund Univ. Arssk. N.F. **2** ii 3.

Anomocare alcinoe, *bergioni*, (47), *bianos* (48), *biston*, ? *butes*, (49), ? *daulis* (50), *daunus* (51), *decclus* (52), *tatian*, *temenus*, (53), **sp. n.**, Mid Cambrian Shantung, WALCOTT Washington, D.C. Nation. Mus. Proc. **29**.—*A. bigsbyi* (581), *eriopia* (582), *flava* (583), **sp. n.**, Mid Cambrian, China WALCOTT op. cit. **30**.—*A. commune*, (63, 77) pl. iv ff. 10, 11, 13, 14, *oratum*, (77) f. 12, *speciosum* (77) pl. v ff. 6, 7, **sp. n.** Mid Cambrian China, LORENZ Berlin Zs. D. Geol. Ges. **58**.

Anomocarella **gen. n.**, *albion* (54), *baucis* (55), ? *bura*, *carne*, (56), *chinensis* (57), **sp. n.**, Mid Cambrian Shantung WALCOTT Washington D.C. Nation. Mus. Proc. **29**.—*A. contigua*, *irma*, **sp. n.** Mid. Cambrian, China WALCOTT op. cit. **30** (584).

Areia suecica **sp. n.** Silurian, Sweden, OLIN Lund Univ. Arssk. N.F. **2** ii 3 (46) pl. i ff. 10-12.

Arionellus agonius, *ajax*, (58), *alala* (59), **sp. n.** Mid Cambrian Shantung, WALCOTT Washington D.C. Nation. Mus. Proc. **29**.

Asaphus bochmi **sp. n.** Mid Cambrian China LORENZ Berlin Zs. D. geol. Ges. **58** (84) pl. vi, ff. 4 and 5.—*A. priscus* **sp. n.** (62, 173), *eichwaldi expansoides*, *lepiduroides*, varr. n. (63, 173) Silurian, Russia LAMANSKIJ St. Petersburg, Mém. com. géol. N. ser. **20**.

(*Bathypirellus brevispinus* (337) pl. x ff. 13-15; *minor* (338) pl. x f. 16, **sp. n.** Chazy limestone, New York RAYMOND, Ann. Carnegie Mus., **3**.)

Bathypiriscus asiaticus **sp. n.** Mid Cambrian, China LORENZ Berlin Zs. D. geol. Ges. **58** (66, 73) pl. v ff. 1-5.—*B. howelli* (296) pl. ii ff. 2 and 2a, *productus* (297) ff. 3 and 3a, Cambrian, Nevada PACK J. Geol. Chicago Ill. **14**.

Blackwelderia **gen. n.**, for *Olenoides? cilix* Walc. WALCOTT Washington, D.C., U.S. Nation. Mus. Proc., **30** (573-575).

Bronteus ekwanensis, aquilonaris spp. n. Upper Silurian Canada WHITEAVES Rep. Geol. Surv. Can. Ottawa **14** (58 F).—*B. ekwanensis* (266) pl. xlii f. 1, *aquilonaris* (267) f. 2, descriptions, WHITEAVES Palaeoz. Fossils **3** pt. 4.

Culymene blumenbacki, drummuckensis var. n., Ordovician Scotland, REED London, Monogr. Palaeont. Soc. **60** (135) pl. xvii f. 14 xviii ff. 1-4.—*C. niagarensis* figured CLARKE and RUEDEMANN Albany Univ. N.Y. Mem. St. Mus. Mem. **5** (107) pl. xxi f. 12.—*C. planimarginata* sp. n. Ordovician Scotland REED London, Monogr. Palaeont. Soc. **60** (137) pl. xvii f. 15.

(*Ceraurus hudsoni* sp. n. Chazy limestone New York RAYMOND Ann. Carnegie Mus., **3**, (367) pl. xiv f. 15.)

Chirurus elasonii sp. n. Silurian Sweden, TÖRNQUIST Stockholm Geol. Förh. **27** (455).—*C. mars* sp. n. Ordovician Lake Champlain HUDSON Albany Univ. N.Y. Rep. St. Mus. **57** Part 1 1905 (295) pl. v ff. 1-2.—*C. (Sphaerocoryphe) thomsoni* sp. n. Ordovician Scotland REED London Monogr. Palaeont. Soc. **60** (146) pl. xviii f. 17, xix ff. 1-7.

Chondroparia gen. n. for *Agraulos pusillus* LORENZ Berlin Zs. D. geol. Ges. **58** (67).

Cordania beeraftensis (22) pl. ii ff. 19-23, *hudsonica* (24) ff. 17 and 18, spp. n., Devonian New York CLARKE Albany Univ. N.Y. Mem. St. Mus. **3** No. 3 1900.

Corynexochus delagei sp. n. Cambrian Coulouma MIQUEL Paris, Bul. soc. géol. **5** (481) pl. xv f. 4.

Crepicephalus damia sp. n. Mid Cambrian Shantung WALCOTT Washington D.C., Nation. Mus. Proc. **29** (92).

Cybele ella sp. n. Ordovician Ottawa NARRAWAY and RAYMOND Pittsburg Pa. Ann. Carnegie Mus. **3** (600-602).—*C. loveni girranensis* var. n., Ordovician Scotland REED London, Monogr. Palaeont. Soc. **60** (126) pl. xvii ff. 1-4.—*C. prima* Raym. = *Cybele valcourensis* Raym. = *Glaphurus primus*, Raym. NARRAWAY and RAYMOND Pittsburg Pa. Ann. Carnegie Mus. **3** (603).

(*Cybele valcourensis* sp. n. Chazy limestone New York RAYMOND, Ann. Carnegie Mus., **3**, (362) pl. xiv f. 9.)

Cyphaspsis minuscula Devonian, New York, CLARKE Albany Univ. N.Y. Mem. St. Mus. **3** No. 3 (24) pl. ii ff. 24 and 25.

Dalmanites paituna, maeccurna, Bolivia LAKE London Q. J. Geol. Soc. **62** (429) pl. xl ff. 9-11.—*D. (Synphoria) stemmatus* sp. n. (15) pl. i ff. 6-16, ii ff. 1 and 2, *convergens* var. n. (19) pl. ii ff. 3-5, *bisignatus* sp. n. (19) ff. 6-8; *phacoptyx* described (19) pl. ii f. 10 Devonian New York, CLARKE Albany Univ. N.Y. Mem. St. Mus. **3** No. 3.

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Griffithides barkei in carboniferous deposits, Yorkshire WOODWARD Yorks. Proc. Geol. Soc. **16** 1906 (84-86).—*G. dobsinensis* (26, 129) pl. i f. 1, *minor* (25, 128) ff. 2, 3, descriptions, FRECH, Földt. Közl., **36**.

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Microdiscus orientalis sp. n. Mid Cambrian China, WALCOTT T.c. (24).

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Limulus; early stages, physiology PEARL J. Comp. Neur. Granville Ohio **14** (138-164); physiology of the heart CARLSON Amer. J. Physiol. Boston Mass. **15** (99-120) Op. cit. **16** (378-408) Op. cit. **17**, (177-210); NEWMAN Op. cit. **15** (371-386). †*L. nathorsti* **sp. n.** Jurassic Sweden JACKSON Ark. Zool. Stockholm **3** No. 11 (1).

† EURYPTERIDA.

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ANTOPODA = 2800.

I.—TITLES.

Bouvier, E. L. Nouvelles observations sur les Pycnogonides recueillis dans les régions antarctiques au cours de la campagne dirigée par M. Jean Charcot. Paris, C.-R. Acad. sci., **142**, 1906, (15-22).

Cole, Leon J. **1**. A new Pycnogonid from the Bahamas. Amer. Nat., Boston, Mass., **40**, 1906, (217-222) pl. i and ii.

Cole, L. J. **2**. Feeding habits of the Pycnogonid *Anoplodactylus lentus*. Zool. Anz., Leipzig, **29**, 1906, (740-741).

Merton, H. Eine auf *Tethys leporina* parasitisch lebende Pantopodenlarve (*Nymphon parasiticum* n. sp.). Mitt. Zool. Stat. Neapel, Berlin, **18**, 1906, (136-141 pl. vii).

Schimkewitsch, Wl[adimir]. Ueber die Periodizität in dem System der Pantopoda. Zool. Anz., Leipzig, **30**, 1906, (1-22).

II.—SUBJECT INDEX = 2807-2827.

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Barana latipes sp. n. Bahamas COLE Amer. Nat. Boston **40** (218-222) pls. i and ii.

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ARACHNIDA I. SP.

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[Allen, W. E. Internal morphology of the American cattle-tick. Lancaster, Pa., Trans. Amer. Microsc. Soc., **26**, 1905, (245-280), pls. xxviii-xxxi.]

Balfour, A. **1.** Biting and noxious insects other than mosquitoes. Second report of the Wellcome research laboratories at the Gordon Memorial College, Khartoum, 1906, (20-50).

Balfour, A. **2.** A Haemogregarine of mammals. Second report of the Wellcome research laboratories at the Gordon Memorial College, Khartoum, 1906 (97-112).

Banks, N. **1.** *Arachnida* from the Bahamas. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, 1906, (185-189).

Banks, N. **2.** A revision of the *Tyroglyphidae* of the United States. Washington, D.C., Tech. Ser., U. S. Dept. Agric., Bur. Ent., No. **13**, 1906, (1-14), pls. i-vi.

Banks, N. **3.** New *Oribatidae* from the United States. Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, 1906, (490-500), pls. xiv-xviii.

Banks, N. **4.** A rock-boring mite. Ent. News, Philadelphia, Pa., **17**, 1906, (193-194).

Benoit-Bazille, H. Description d'un Acarien nouveau (*Tyroglyphus lepismus*). Microgr. prépar., Paris, **14**, 1906, (11-17).

Berger, E. W. A pseudoscorpion from Guatemala. Ohio Nat., Columbus, Ohio, **6**, 1906, (489-491).

Bergroth, E. Some *Arachnida* from Washington State. Ent. News, Philadelphia, Pa., **17**, 1906, (350).

Berlese, A. Monografia del genere *Gamasus* Latr. Redia, Portici, **3**, 1905, [1906], (68-304), pls. ii-xix.

Berry, E. H. The "accessory chromosome" in *Epeira*. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **11**, 1906, (193-201).

[Birula, A[leksëi Andrejevič.] **1.** Beiträge zur Kenntniss der Solifugen-Fauna Persiens. St. Peterburg, Bull. Ac. Sc. Ser. 5, **22**, 1905, (247-286).]

Birula, A. **2.** Miscellanea scorpologica. VIII. Bemerkungen über die Skorpionensammlung des Kaukasischen Museums zu Tiflis. St. Peterburg, Ann. Mus. zool. Ac. Sc., **10**, 1905, [1906], (119-131).

Birula, A. **3.** Beiträge zur Kenntniss der Skorpionenfauna Persiens. (Dritter Beitrag.) St. Peterburg, Bull. Ac. Sc., Ser. 5, **23**, 1905, (119-148).

Birula, A. **4.** Neue Solifugen. Zool. Anz., Leipzig, **30**, 1906, (24-28).

[Birula, A.] Бируля, А. **5.** Скоorpionы и сольпуги собранные Л. С. Бергомъ на берегахъ Аральскаго моря и оз. Балхаша. [Ueber die an den Küsten des Aral- und Balchasch- Sees von L. S. Berg gesammelten Skorpione und Solifugen.] Taškent, Izv. Turk.

Otd. Russ. Geogr. Obšč., **4**, 7, 1906, (42-48), Taf. v.

Blanchard, R. Présence des Acariens du genre *Halarachne* chez les Phoques de l'Océan Antarctique. Arch. parasit., Paris, **10**, 1906, (313).

Börner, Carl. Ein freilebender Weiss-tannen-*Phyllocoptes*. Berlin, Arb. biol. Anst., **5**, 1906, (139-142).

Bösenberg, W. und Strand, E. Japanische Spinnen. Frankfurt a. M., Abh. Senckenb. Ges., **30**, 1906, (93-422, pls. iii-xvi).

Bonnet, A. 1. Sur les organes génitaux mâles et la spermatogénèse chez les Ixodes. Paris, C.-R. ass. franç. avanc. sci., **35**, Lyon, 1906, 1^{re} Partie, (126-127).

Bonnet, A. 2. Sur l'anatomie et l'histologie des Ixodes. Paris, C.-R. Acad. sci., **142**, 1906, (296-298).

Bonnet, A. 3. On the anatomy and histology of the Ixodidae. [Translation.] Ann. Mag. Nat. Hist., London, Ser. 7, **17**, 1906, (509-511).

Buy, P. Histoire naturelle et médicale des Ixodes. Lyon, Ann. Soc. Linn., **53**, 1906, (93-155).

Cambridge, O. Pickard. 1. On some new and rare British *Arachnida*. Dorchester, Proc. Dorset Nat. Hist. F. Cl., **27**, 1906, (72-92), pl.

Cambridge, O. P. 2. *Arachnida* from the Orkneys. Ann. Scot. Nat. Hist., Edinburgh, **1906**, 57, (55).

Cambridge, O. P. 3. The Wild Fauna and Flora of the Royal Botanic Gardens, Kew.—*Araneidea*. Kew Bull., Add. Ser. **5**, 1906, (53-65).

Cambridge, F. O. Pickard. *Arachnida*, [in] The Victoria history of the county of Hampshire and Isle of Wight, **1**, 1900, (165-184); of Cumberland, **1**, (144-157); of Norfolk, **1**, 1901, (173-182); of Worcester, **1**, 1901, (125); of Hertford, **1**, 1902, (171-180); of Surrey, **1**, 1902, (178-186); of Bedford, **1**, 1904, (88-90); of Warwick, **1**, 1904, (167-170); of Buckingham, **1**, 1905, (107-109); of Derby, **1**, 1905, (100, 101); of Durham, **1**, 1905, (141-147); of Sussex, **1**, 1905, (238-244); of Berkshire, **1**, 1906, (120-122); of Somerset, **1**, 1906, (124-125); of Devon, **1**, 1906, (245-252); of Cornwall, **1**, 1906 (245-253); of Lancaster, **1**, 1906, (145-156).

Cantlie, J. Some points of interest in tropical medical work during 1905. J. Trop. Med., London, **9**, 1906, (6-12).

Carr, J. W. *Arachnida* [in] The Victoria history of the county of Nottingham, **1**, 1906, (132-140).

Chittenden, F[rank] H[urlbut]. Harvest mites, or "chiggers." Washington, D.C., Cir., U.S. Dept. Agric., Bur. Ent., No. **77**, 1906, (1-6).

Christophers, S. R. The anatomy and histology of ticks. Sci. Mem. Med. Ind., Calcutta, N. Ser., No. **23**, 1906, (1-53, 6 pls.).

Collinge, W. E. Note on some species of mites of the genus *Eriophyes*. London, Proc. Ass. Econ. Biol., **1**, pt. i, 1905, (10, 11).

Comstock, J. H. The hackled band in the webs of certain spiders. Science, New York, N.Y., **24**, 1906, (297).

Cooper, W. F. *vide* Nuttall.

Cramer, P[eter]. Rapport over een Acارينenplaag in cassave-aanplantingen in de residentie Kediri. [Report on an Acarine plague in plantations of cassave in the residency of Kediri.] Teijsman-nia, Batavia, **17**, 1906, (718-724).

Crosby, C. R. Two new species of *Theridiidae*. Canad. Entomol., Toronto, **38**, 1906, (308-310).

[Daday, J. 1. Turkesztáni édesvízi mikroskopi állatok. [Mikroskopische Süßwassertiere aus Turkestan.] Math. Term. Ért., Budapest, **21**, 1903, (322-357).]

[Daday, J. 2. Paraguay mikrofaunájának alaprajza. [Grundzüge der Mikrofauna von Paraguay.] Math. Term. Ért., Budapest, **23**, 1905 (312-355).] [Cf. Zool. Rec., 1905, *Arachnida*, No. 36].

Daday, J. 3. Édesvízi mikroskopi állatok Mongoliából. [Mikroskopische Süßwassertiere aus der Mongolei.] Math. Term. Ért., Budapest, **24**, 1906, (34-77).

Dahl, F. 1. Die physiologische Zuchtwahl im weiteren Sinne. Biol. Centralbl., Leipzig, **26**, 1906, (3-15).

Dahl, F. 2. Die gestreckte Körperform bei Spinnen und das System der Araneen. Zool. Anz., Leipzig, **31**, 1906, (60-64).

Delval, Ch. Capture d'un exemplaire d'*Euscorpium flavicaudis* à Paris. Paris, Bul. soc. ent., **1904**, (178).

(Desmaisons, H.) Note sur les collections d'Araignées et sur un moyen d'y joindre les toiles. Amiens, Bul. soc. linn., **17**, 1904, (107-110) pl. v).

Dönitz, W. 1. Ueber afrikanische Zecken. Berlin, Sitzber. Ges. natf. Freunde, **1906**, (143-148) 1 Taf.

Dönitz, W. 2 Zecken als Krankheitsüberträger. Frankfurt a. M., Ber. Senckenb. Ges., **1906**, (39-52).

Donisthorpe, H. St. J. K. Myrmecophilous notes for 1906. Ent. Rec., London, **18**, 1906, (317-319).

(Dyé, L.) Les parasites des Culicides. Arch. parasit., Paris, **9**, 1905, (5-77.)

Ellingsen, E. Report on the Pseudo-scorpions of the Guinea coast (Africa) collected by Leonardo Fea. Genova, Ann. Mus. Civ. St. Nat., **42**, 1905-6, (243-265), pl. iv.

Evans, W. 1. *Chiridium muscorum* Leach in Fife. Ann. Scot. Nat. Hist., Edinburgh, **1906**, **57**, (57).

Evans, W. 2. Some *Invertebrata*, including *Ixodes borealis*, from St. Kilda. Ann. Scot. Nat. Hist., Edinburgh, **1906**, **58**, (84-86).

Falconer, W. 1. East Yorkshire spiders. Naturalist, London, **1906**, No. 588, (29-30).

Falconer, W. 2. Notes on harvest-spiders, with particulars of their occurrence in Yorkshire. Naturalist, London, **1906**, No. 594, (215-220), pl. xi, No. 598, (388-390).

[Faussek, V.] Фаусекъ, В. Биологическія изслѣдованія въ Закаспійской Области. [Biologische Untersuchungen in Transkaspien.] St. Petersburg, Zap. Russ. Geogr. Obsč., **27**, 2, 1906, 1 + 1-192 + 1), 4 Taf.

(Favette, J. et Trouessart, E.) Monographie du genre *Protolichus* et revision des Sarcophtes plumicoles (*Analgesina*) qui vivent sur les Perroquets. Paris, Mém. soc. zool., **17**, 1905, (120-166), pl.)

Feltgen, E. Notices sur les Araignées. Suite 5. Luxembourg, Fauna, Ver. Luxemb. Naturf., **1906**, (129-131).

Friedrich, P. Regeneration der Beine und Autotomie bei Spinnen. Arch.

EntwMeeh., Leipzig, **20**, 1906, (469-506), pl. xvii and xviii.

Froggatt, W. W. Description of a new tick belonging to the family *Argasidae*. Sydney, N.S.W., Proc. Linn. Soc., **31**, 1906, (408).

George, G. F. 1. Lincolnshire mites. *Epierius*. Naturalist, London, **1906**, No. 595, (264-267).

George, G. F. 2. Lincolnshire fresh-water mites. Naturalist, London, **1906**, No. 589, (37-38), No. 590, (93-94).

Georgevitch, Z. 1. Beitrag zur Kenntnis der Hydrachniden Mazedoniens. Zool. Anz., Leipzig, **30**, 1906, (769-775).

Georgevitch, Z. 2. Prilozi za poznabanje slatkobodne faune Balkan poluostrva. II. Ma kedonske Klhidraknie. [Contributions to a knowledge of the fresh-water fauna of the Balkan Peninsula. II. Macedonian Hydrachnida.] Ghlas Srpska Ak., **71**, No. 28, 1906, (123-151).

Gerber, C. Action de *Eriophyes passerina* N. sur les feuilles de *Giardia hirsuta*. Paris, C.-R. Acad. sci., **143**, 1906, (844-845), and Paris, C.-R. soc. biol., **61**, 1906, (505-506), and Réunion biologique de Marseille, 1906, (55, 56).

Gilchrist, R. New Yorkshire spider records. Naturalist, London, **1906**, No. 593, (200).

Gmeiner. Die *Sarcophtes*räude der Kaninchen. Arch. Thierheilk., Berlin, **32**, 1906, (170-185).

Green, E. E. Scorpion stings. Spolia Zeylan., **3**, 1906, (197, 215).

Gros, H. Contribution à l'étude des accidents provoqués par les animaux venimeux. Piqûre de Scorpion. Arch. Schiffshyg., Leipzig, **10**, 1906, (491-496).

Haan, J. de. Gibt es beim Menschen endoparasitär lebende Acariden? Centralbl. Bakt., Jena, Abt. 1, **40**, Originale, 1906, (693-694).

Halbert, J. N. 1. Zoological results of the third Tanganyika expedition conducted by Dr. W. A. Cunningham, 1904-1905. Report on the *Hydrachnida*. London, Proc. Zool. Soc., **1906**, (534-535).

Halbert, J. N. 2. Notes on Irish *Hydrachnida*; with descriptions of a

new genus and two new species. *Ann. Mag. Nat. Hist.*, London, ser. 7, **18**, 1906, (4-12), pl. ii.

Hancock, R. A note on the *Araneae* around Yarmouth. *Zoologist*, London, ser. 4, **10**, 1906, (58-61).

Hay, O. P. A bear animaleule re-named. Washington, D.C., *Proc. Biol. Soc.*, **19**, 1906, (46-47).

Heim, F. et Oudemans, A. 1. Nouvelle espèce fungivore de *Cépheus*. Paris, *Bul. soc. ent.*, **1903**, (311-313).

Heim, F. et Oudemans, A. 2. Nouvelle espèce du genre *Pergamasus* Berlese [Acar.] originaire de la Guyane et du Brésil. Paris, *Ann. Soc. ent.*, **75**, 1906, (57-62), pl. iv-vi.

(**Heim, F. et Oudemans, A. 3.** Deux nouvelles espèces de *Thrombidium* de France. Paris, *Bul. soc. ent.*, **1904**, (91-97), fig.)

Hogg, H. R. On some South Australian spiders of the family *Lycosidae*. London, *Proc. Zool. Soc.*, **1905**, (569-590).

Iwakawa, T. Hompō san no Sasori-ri. [The scorpions of Japan]. Dobuts. Z., Tokyo, **18**, 1906, (4-12), pl.

Jackson, A. R. The spiders of the Tyne Valley. Newcastle, *Trans. Nat. Hist. Soc., N. Ser.*, **1**, 1904-1906, (337-405).

Jarvis, T. D. 1. The Locust mite. *Canad. Entomol.*, Toronto, **38**, 1906, (349, 350), and Toronto, *Ann. Rep. Ent. Soc. Ontario*, **37**, 1906, (111).

Jarvis, T. D. 2. Mites affecting farm homesteads. *Canad. Entomol.*, Toronto, **38**, 1906, (239-242).

Junack. Massenhaftes Auftreten von Zecken bei Pferden. *Zs. Veterinärk.*, Berlin, **15**, 1903, (258-259).

[**Karavajev, V.**] Караваевъ, В. Дальнѣйшія наблюденія надъ видами рода *Antennophorus*. [Further observations on the species of the genus *Antennophorus*.] Kiev, *Zap. Obsč. Jest.*, **20**, 1906, (209-230).

Kew, H. W. *Chernes cyrneus* in Nottinghamshire: a recent addition to the known false-scorpions of Britain. Nottingham, *Trans. Nat. Soc.*, 1905-1906, (41-46), pl. v.

Klee. Die Vogelmilbe [*Dermanyssus avium*]. Fühlings landw. Ztg, Stuttgart, **55**, 1906, (98-103).

Koch, Max. Zur Kenntniss des Parasitismus der Pentastomen. Biologische und experimentelle Untersuchungen über den Parasitismus der *Linguatularhinaria* Pilger und ihrer Larve. Arbeiten aus dem path. Inst. zu Berlin. Berlin (A. Hirschwald), 1906, (288-348, mit 2 Taf.).

Koch, R. Preliminary statement on the results of a voyage of investigation to East Africa. [Translation.] *J. Trop. Med.*, London, **9**, 1906, (43-45, 75, 76, 104, 105, 137, 138).

Koenike, F. 1. Die Hydrachniden Ost-Afrikas. *Deutsch Ost-Afrika*, **4**, 1898, Berlin, (18 pp., 1 pl.).

Koenike, F. 2. Hydrachniden aus Java gesammelt von Prof. Koenike-Bremen. Hamburg, *Mitt. naturhist. Mus.*, **23**, 1906, (105-137), pls. i, ii.

Koenike, F. 3. *Forelia parmata* nov. nom. *Zool. Anz.*, Leipzig, **30**, 1906, (513-514).

Koenike, F. 4. Nicht *Curvipes thoracifer* Piers., sondern *C. discrepans* Koen. *Zool. Anz.*, Leipzig, **30**, 1906, (514-515).

Kraepelin, K. Die Skorpione Ost-Afrikas. *Deutsch Ost-Afrika*, **4**, 1898, Berlin, (5 pp.).

Kulczyński, Vl. 1. Araneorum species novae tres in Dalmatia a Dre Cornelio Chyzer lectae. *Ann. Hist.-Nat. Mus. Nat. Hung.*, Budapest, **4**, 1906, (157-164).

Kulczyński, Vl. 2. Fragmenta arachnologica, IV. VII. De speciebus Europaeis generis *Amaurobius* (C. L. Koch), F. Cambr. (*Coclotus auctorum*). Krakow, *Bull. Intern. Acad.*, **1906**, (417-476), pls. xiv, xv.

Laengner, H. Ueber *Pentastomum denticulatum* beim Menschen. *Centralbl. Bakt.*, Jena, Abt. 1, **40**, Originale, 1906, (368-371).

Largaiolli, V. Una nuova varietà dell'*Atax intermedius* (A. i., var. *lavaronensis*, n.). *Rivista mensile di Pesca*, Milano, **8**, 1906, (286-288).

Lécaillon, A. 1. Sur la faculté qu'ont les Araignées d'être impressionnées par le son et sur le prétendu goût de ces

animaux pour la musique. Paris, C.-R. soc. biol., **60**, 1906, (770-772).

Lécaillon, A. 2. Les "Instincts" et le psychisme des Araignées. Rev. sci., Paris, sér. 5, **6**, 1906, (289-293, 325-332).

(**Lécaillon. 3.** Sur les mœurs d'*Agelena labyrinthica* Cl. Paris, Bul. soc. ent., **1905**, (182-184).)

Linstow, von. Parasites from the Gharial (*Gavialis gangeticus*, Geoffr.). [Translated by Paul Brühl.] Calcutta, J. As. Soc. Beng., **2**, 1906, (269-271), pl. iii.

Loman, J. C. C. 1. Opilioniden aus Neu-Guinea. Nova Guinea, Résultats de l'expédition scientifique Néerlandaise à la Nouvelle-Guinée en 1903, sous les auspices de Arthur Wichmann, Chef de l'Expédition, Leide (E. J. Brill), **5**, Livr. 1, 1906, (1-8).

Loman, J. C. C. 2. Ein neuer Opilioneide des Hamburger Museums. Hamburg, Mitt. naturhist. mus., **23**, 1906, (103, 104).

Lounsbury, C. P. Habits and peculiarities of some South African Ticks. London, Rep. Brit. Ass., **1905**, (282-291).—Reprinted in Addresses and papers read at the Joint Meeting of the British and South African Associations for the Advancement of Science. 1905. **3**, (13-26).

Lucas, Robert. Arachnida. [Jahresbericht 1901.] Arch. Natg., Berlin, **68**, Bd 2, H. 2, 2. Hälfte, 1902 [1906], (1416-1578), = D. ent. Zs., Berlin, **1902**, H. 3, 2. Hälfte, [1906], (1416-1578).

Lucks, R. Eine neue Milbenart [*Cheiletus eruditus*] in Futtermitteln. Landw. Versuchstat., Berlin, **64**, 1906, (477-480).

Ludwig, F. 1. Die Aepfel und die Wohnungsmilben. Zs. Pflanzenkrankh., Stuttgart, **16**, 1906, (13-15).

Ludwig, F. 2. Ueber die Milben der Baumflüsse und das Vorkommen des *Hericia Robini* Canestrini in Deutschland. Zs. Pflanzenkrankh., Stuttgart, **16**, 1906, (137-139).

Lutz, F. E. Preserving spiders' webs. Science, New York, N.Y., **23**, 1906, (391).

Maglio, C. 1. Idracnidi nuovi o poco noti dell' Italia superiore. Zool. Anz., Leipzig, **30**, 1906, (406-413).

(N-9720 n)

(**Maglio, C. 2.** Primo elenco di Idracne del Pavese. Milano, Rend. Ist. lomb., Ser. 2, **36**, 1903, (291-299).)

(**Maglio, C. 3.** Secondo elenco d' Idracne del Pavese. Milano, Rend. Ist. lomb., Ser. 2, **38**, 1905, (147-154).)

Marucci, V. Contributo alla conoscenza degli Idracnidi del Lazio. Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (282-288).

Maurizio, A. Zur Lebensweise der Milben der Familie der *Tyroglyphinae* in Futter- und Nahrungsmitteln. Centralbl. Bakt., Jena, Abt. 2, **15**, 1905-06, (606-623, 723-736).

Maxwell-Lefroy, H. On Insect pests. Indian Insect Pests, Calcutta, 1906, (219-220).

Michael, A. D. The Wild Fauna and Flora of the Royal Botanic Gardens, Kew.—*Acarina*. Kew Bull., Add. Ser. **5**, 1906, (64).

Mingaud, Galien. 1. Le Castor du Rhône et ses parasites. Nature, Paris, **33**, 2^e sem., 1905, (118-119).

Mingaud, G. 2. Note sur la ponte du Scorpion roussâtre (*Buthus europaeus* L.). Nîmes, Bul. soc. étud. sci. nat., **33**, 1906, (168-170).

Mitchell, C. A. The venom of spiders. Knowledge and Sci. News, London, **3**, 1906, (317-318) [continued from **2**, 1905].

Montgomery, T. H. 1. The oviposition, cocooning and hatching of an Aranead, *Theridium tepidariorum* C. Koch. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **12**, 1906, (1-10).

Montgomery, T. H. 2. Probable dimorphism of the eggs of an Aranead. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **12**, 1906, (115-118).

(**Monti, Rina. 1.** Di un'altra nuova specie di *Lebertia* e di alcune Idracne nuove per la fauna italiana. Milano, Rend. Ist. lomb., Ser. 2, **37**, 1904, (240-247, 1 tav.).)

(**Monti, R. 2.** Genere e specie nuovi di Idracnide. Milano, Rend. Ist. lomb., Ser. 2, **38**, 1905, (168-176, 2 tav.).)

Murray, J. 1. The *Tardigrada* of the Scottish lochs. Edinburgh, Trans. R. Soc., **41**, 1906, (677-698), pls. i-iv.

Murray, J. 2. Scottish Alpine *Tardigrada*. Ann. Scot. Nat. Hist., Edinburgh, **1906**, 57, (25-30), pl. iii.

Murray, J. 3. The *Tardigrada* of the Forth valley. Ann. Scot. Nat. Hist., Edinburgh, **1906**, 60, (214-217), pl. v.

Nalepa, A. Über zwei neue Eriophyiden von den Fidschiinseln. J. econ. Biol., London, **1**, 1906, (147-151), pl. x.

Neumann, L. G. 1. Notes sur les Ixodidés; IV. Arch. parasit., Paris, **10**, 1906, (195-219).

Neumann, L. G. 2. Note sur *Spektorhynchus praecursor*, Nu. Arch. parasit., Paris, **10**, 1906, (220).

Newstead, R. On the bionomics of *Ornithodoros moubata*, the intermediary host of human tick fever. London, Proc. Ass. Econ. Biol., **1**, 1906, (74-77).

Noël, P. 1. *L'Argas reflexus*. Naturaliste, Paris, **28**, 1906, (132-133).

(**Noël, P. 2.** *Le Tetranychus telarius*. Naturaliste, Paris, **27**, 1905, (249-250).)

Nordenskiöld, E. 1. Zur Anatomie und Histologie von *Ixodes redurius*. Zool. Anz., Leipzig, **30**, 1906, (118-125).

Nordenskiöld, E. 2. Ein eigenartiges Drüsensystem bei *Ixodes*. Zool. Anz., Leipzig, **30**, 1906, (184-185).

Nosek, A. Ergebnisse einer naturwissenschaftlichen Reise zum Erdschias-Dagh (Kleinasien) I. Zoologischer Teil. Araneiden, Opilionen, Chernetiden. Wien, Ann. Nat. Hist. Hofmus., **20**, 1905, (114-154), pls. iv & v.

Nuttall, G. H. F., Cooper, W. F. and Smedley, R. D. The buccal apparatus of a tick (*Haemaphysalis punctata* C. and F.). London, Rep. Brit. Ass., **1905**, (439-441).

(**Oudemans, A[ntonio] C[ornelis]. 1.** Acarologische Aanteekeningen. [Notes on Acari.] XVI. 's Gravenhage, Ber. Ned. Ent. Ver., **22**, 1905, (216-218).)

Oudemans, A. C. 2. Acarologische Aanteekeningen XIX. 's Gravenhage, Ber. Ned. Ent. Ver., **2**, 1905, (4-12).

Oudemans, A. C. 3. Acarologische Aanteekeningen XX. 's Gravenhage, Ber. Ned. Ent. Ver., **2**, 1905, (15-23).

Oudemans, A. C. 4. Acarologische Aanteekeningen XXI. 's Gravenhage, Ber. Ned. Ent. Ver., **2**, 1906, (37-43).

Oudemans, A. C. 5. Acarologische Aanteekeningen XXII. 's Gravenhage, Ber. Ned. Ent. Ver., **2**, 1906, (55-62).

Oudemans, A. C. 6. Acarologische Aanteekeningen XXIII. 's Gravenhage, Ber. Ned. Ent. Ver., **2**, 1906, (81-88).

Oudemans, A. C. 7. Acarologische Aanteekeningen XXIV. 's Gravenhage, Ber. Ned. Ent. Ver., **2**, 1906, (96-101).

Oudemans, A. C. 8. Nieuwe classificatie der *Acari*. [Neue Klassifizierung der *Acari*.] 's Gravenhage, Ber. Ned. Ent. Ver., **2**, 1906, (43-46).

Oudemans, A. C. 9. Over *Acari*. [Ueber *Acari*.] 's Gravenhage, Tijdschr. Ent., **49**, [1906], (xvi-xix).

Oudemans, A. C. 10. Mededeelingen over *Hymenoptera*, *Gryllidae*, *Acari* en *Suctoria*. [Mitteilungen über *Hymenoptera*, *Gryllidae*, *Acari* und *Suctoria*.] 's Gravenhage, Tijdschr. Ent., **49**, 1906, (1-lxx).

Oudemans, A. C. 11. Notes on *Acari*. XVIII series. (*Parasitidae*, *Bdellidae*, *Acaridae*.) 's Gravenhage, Tijdschr. Ent., **49**, 1906, (237-270).

Oudemans, A. C. 12. *Acari*. Nova Guinea. Résultats de l'expédition scientifique Néerlandaise à la Nouvelle-Guinée en 1903, sous les auspices de Arthur Wichmann, Chef de l'Expédition. Leide (E. J. Brill), 1906, **5**, Livr. 1, (101-162), 4 pls.

Oudemans, A. C. 13. Révision des Chélétinés. Paris, Mém. soc. zool., **19**, 1906 (36-144).

Oudemans, A. C. 14. Morphologische beteekenis van de leden der mandibula bij de *Acari*. [Morphologische Bedeutung der Glieder der Mandibula bei den *Acari*.] 's Gravenhage, Ber. Ned. Ent. Ver., **2**, 1906, (47-48) and Translation in Ann. Mag. Nat. Hist. London, Ser. 7, **17**, 1906 (504-505).

Oudemans, A. C. 15. Ueber die morphologische Bedeutung der Glieder der Mandibeln bei den *Acari*. Zool. Anz., Leipzig, **29**, 1906, (638-639).

Oudemans, A. C. 16. Ueber Genitaltracheen bei Chernetiden und *Acari*. Zool. Anz., Leipzig, **30**, 1906, (135-140).

Oudemans, A. C. 17. Das Tracheensystem der *Labidostomidae* und eine

neue Klassifikation der *Acari*. Zool. Anz., Leipzig, **29**, 1906, (633-637, 656).

(Oudemans, A. C. **18**. Acarologische Aanteekeningen XVII. 's Gravenhage, Ber. Ned. Ent. Ver., **23**, 1905, (222-226).)

Oudemans, A. *vide* Heim, F. **1**, **2**.

(Packard, A. S. Change of colour and protective colouration in a flower-spider (*Misumena vatia* Thorell). New York, N.Y., J. Ent. Soc. **13**, 1905, (85-96).)

Pearce, N. D. F. On some *Oribatidae* from the Sikkin Himalaya. London, J. R. Microsc. Soc., **1906**, (269-273), pl. xiii.

Pearce, N. D. F. *vide* Warburton, C.

Penther, A. Bemerkungen über einige Skorpione aus Kreta. Wien, Verh. Zool. Bot. Ges., **56**, 1906, (60-64).

Pernet, George. [Society Intelligence. Exhibitions]. Brit. J. Derm., London, **18**, 1906, (288-289).

Peyerimhoff P. de. **1**. Recherches sur la faune cavernicole des Basses-Alpes. Paris, Ann. soc. ent., **75**, 1906, (203-222).

Peyerimhoff, P. de. **2**. Sur l'existence à Majorque du genre *Kamenia*. Paris, Bul. soc. ent., **1906**, (300-302).

Piersig, R. Ueber Süsswasser-Acarinen von Hinterindien, Sumatra, Java und den Sandwich-Inseln. (Reise von Dr. Walter Volz.) Zool. Jahrb., Jena, Abt. f. Syst., **23**, 1906, (321-394) pl. xiii-xxi.

Planet, L. **1**. Araignées. Histoire naturelle de la France. 14^e partie. Paris (Deyrolle), 1905, (341) 18 pls.

(Planet, Louis. **2**. Araignées et forficules. Naturaliste, Paris, **27**, 1905, (239-240).)

Pocock, R. I. The Wild Fauna and Flora of the Royal Botanic Gardens, Kew—*Scorpionidae*. Kew Bull., Add. Ser. **5**, 1906, (65).

Popovici-Bazosanu, A. Sur l'hématozoaire de *Testudo ibera* (*T. mauritanica*, *T. pusilla*). Paris, C.-R. soc. biol., **60**, 1906, (173-174).

(N-9720 n)

Rainbow, W. J. **1**. A synopsis of Australian *Acarina*.—Sydney N.S.W., Rec. Austr. Mus. **6** 1906, (145-193 figg.)

(Rainbow, W. J. **2**. Studies in Australian *Araneidae* IV. Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (8-12), with text-fig. and 1 pl.)

(Rainbow, W. J. **3**. Notes on the architecture, nesting habits and life histories of Australian *Araneidae*, based on specimens in the Australian Museum. V. Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (22-28).)

Ransom, B. H. Some unusual host relations of the Texas fever tick. Washington, D.C., Cir., U. S. Dept. Agric., Bur. Anim. Ind., No. **98**, 1906, (1-8).

Reuter, E. Eine schädliche, neue *Uropoda*-Art. Helsingfors, Acta Soc. Fauna et Fl. Fenn., **27**, 1905, (1-17), 1 pl.

Richters, F. **1**. Wiederbelebungsversuche mit Tardigraden. Zool. Anz., Leipzig, **30**, 1906, (125-127).

Richters, F. **2**. Ein merkwürdiger Moosbewohner. [*Liacarus palmicinctus*.] Umschau, Frankfurt a. M., **10**, 1906, (215-216).

Rivington, H. S. The occurrence of the scorpion spider (*Phrynicus*) (Karsch) in the Shevaroy Hills. Bombay, J. Nat. Hist. Soc., **17**, 1906, (523).

Ross, P. Tick fever. J. Trop. Med., London, **9**, 1906, (65-69).

Roth, L. Über Invasionen von *Leptus autumnalis* beim Hunde. Wochenschr., Tierheilk., München, **50**, 1906, (341-345, 361-365, 381-384).

Roubal, J. Prodrómus myrmecophilâ českých. Prag, SitzBer. Böhm. Ges. Wiss., **1905**, No. 15, (1-44).

Rousseau, E. Notes pour servir à l'étude des Hydrachnides de Belgique. Brussels, Mém. soc. entom. Belgique, **12**, 1906, (181-188).

Ruthven, A. G. Spiders and insects from the Porcupine mountains and Isle Royale, Michigan. Michigan, Rep. Geol. Surv., Lansing, **1905**, 1906, (100-106).

[Scheffer, T. H. **1**. The cocooning habits of spiders. Lawrence, Kan. Univ. Q., **6**, No. 2, 1905, (85-114).]

[Scheffer, T. H. **2**. List of spiders in the entomological collection of the

Kansas State University. Lawrence, Kan. Univ. Q., **6**, No. 2 1905 (117-120.)

Schiller, K. v. Schorler, B.

[Schimkewitsch, V. M.] Шимкевичъ, В. М. По поводу развитія *Thelyphonus*. [On the development of *Thelyphonus*.] St. Petersburg, Trav. Soc. nat. **35**, 4, 1906, (1-15).

Schimkewitsch, W. **2**. Ueber die Entwicklung von *Thelyphonus caudatus* (L.), verglichen mit derjenigen einiger anderer Arachniden. Zs. wiss. Zool., Leipzig, **81**, 1906, (1-95), pl. i-viii.

Schmitt, J. Monographie de l'île d'Anticosti (Golfe Saint-Laurent). Paris, 1904, (i-vi + 1-367).

Schorler, B., Thallwitz, J. and Schiller, K. Pflanzen- und Tierwelt des Moritzburger Grossteiches bei Dresden. Ann. biol. lacustre, Bruxelles, **1**, (193-311).

Schwangart, F. **1**. Ueber den Parasitismus von Dipterenlarven in Spinnencocons. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (105-107).

Schwangart, F. **2**. Über zwei Formen der Pedipalpengattung *Typopeltis* Poc. von Formosa. Zool. Anz., Leipzig, **30**, 1906, (331-337).

Scribau, J. and Simon, E. Faune Roumaine. Arachnides récoltées par M-r. J. Scribau, préparateur au Laboratoire de Morphologie de Jassy et déterminées par M-r. Eug. Simon de Paris. Jassy, Ann. Univ. **4**, 1906, (87-89).

Shelford, R. Note on a feeding experiment on the spider *Nephila maculata*. London, Trans. Ent. Soc., **1906**, Proceedings, (63-66).

Simon, E. **1**. Ergebnisse der mit Subvention aus der Erbschaft Treitl unternommen zoologischen Forschungsreise Dr. F. Werner's nach dem ägyptischen Sudan und Nord-Uganda. Wien, SitzBer. Ak. Wiss., **115**, 1906, (1159-1176).

Simon, E. **2**. Étude sur les araignées de la section des *Cribellates*. Brussels, Ann. soc. ent. Belgique, **50**, 1906, (284-308).

Simon, E. **3**. Voyage de M. Maurice Maindron dans l'Inde méridionale, 8^e Mémoire. Arachnides (2^e Partie), Paris, Ann. Soc. ent., **75**, 1906, (279-314).

Simon, E. **4**. Description d'un Arachnide cavernicole du Tonkin. Paris, Bul. soc. ent., **1906**, (27).

Simon, E. **5**. Description d'une nouvelle espèce de *Phoneysa* découverte au Fouta-Djalon, par M. A. Chevalier. Bul. Muséum, Paris, **1906**, (189-190).

(Simon, E. **6**. Description d'un *Blothrus* nouveau des grottes des Basses-Alpes. Paris, Bul. soc. ent., **1905**, (282-283).)

(Simon, E. **7**. Voyage de M. Maurice Maindron dans l'Inde méridionale 7^{me} Mémoire. Arachnides. (1^{re} partie). Paris, Ann. soc. ent., **74**, 1905, (160-180).)

(Simon, E. **8**. Note sur la faune des îles Juan Fernandez. Paris, Bul. soc. ent., **1905**, (70-72).)

(Simon, E. **9**. Arachnides recueillis par M. A. Pavie en Indo-Chine. Mission Pavie, **3**, 1904, (270-296).)

(Simon, E. **10**. Liste des scorpions trouvés au Tucuman par M. G. A. Baër. Paris, Bul. soc. ent. **1904**, (120-121).)

Simon, E. *vide* Scribau, J.

Sjöstedt, Y. Übersicht der Ergebnisse einer zoologischen Reise in Kamerun West Afrika 1890-1892. Stockholm, 1905, (1-102).

Smedley, R. D. *vide* Nuttall.

Smith, F. P. **1**. The spiders of the *Diplocephalus* group. London, J. Quek. Microsc. Cl., ser. 2, **9**, 1906, (295-320).

Smith, F. P. **2**. The literature of the sub-family *Erigoninae*. London J. Quek. Microsc. Cl., ser. 2, **9**, 1906, (321-326).

Soar, C. D. **1**. Notes and observations on the life-history of fresh-water mites. London, J. Quek. Microsc. Cl., ser. 2, **9**, 1906, (359-370) pl. xxvi-xxx.

Soar, C. D. **2**. The Wild Fauna and Flora of the Royal Botanic Gardens, Kew. — *Hydrachnidae*. Kew Bull., Add. Ser. **5**, 1906, (64).

Sörensen, William. Un animal fabuleux des temps modernes, analyse critique. Kjöbenhavn, Vid. Selsk. Overs., **1906**, No. 4, (197-232).

[Solovjev, S.] Соловьевъ, С. Водяные Клещи (*Hydrachnidae*) оз. Бо-

лороба и его окрестностей. [Verzeichnis der im Bologoje-See und in seiner Umgegend gesammelten Hydrachniden]. St. Peterburg, Ber. Süßwasserst. Naturf. Ges., **2**, 1906, (277–280).

Speiser, [Paul]. Ueber eine Sammelreise im Kreise Oletzko. Königsberg, Schr. physik. Ges., **47**, 1906, (71–78).

Strand, Embr. **1**. *Coleoptera*, *Hymenoptera*, *Lepidoptera* und *Araneae* [aus Grönland und Ellesmere-Land]. Kristiania, Report of the Second Norwegian Arctic Expedition in the "Fram," 1898–1902, No. **3**, 1905, (30).

Strand, E. **2**. Die arktischen *Araneae*, *Opiliones* und *Chernetes*. [In] Fauna Arctica. Bd 4. Lfg 3. Jena (G. Fischer), 1906, (431–478).

Strand, E. **3**. Diagnosen nordafrikanischer, hauptsächlich von Carlo Freiherr von Erlanger gesammelter Spinnen. Zool. Anz., Leipzig, **30**, 1906, (604–637, 655–690).

Strand, E. **4**. Ueber einige Vogelspinnen und afrikanische Spinnen des naturhistorischen Museums zu Wiesbaden. Wiesbaden, Jahrb. Ver. Natk., **59**, 1906, (1–45).

Strand, E. **5**. Weiteres über afrikanische Spinnen des naturhistorischen Museums zu Wiesbaden. Wiesbaden, Jahrb. Ver. Natk., **59**, 1906, (285–298).

Strand, E. **6**. Sumatra- und Neu-Guinea-Spinnen des naturhistorischen Museums zu Wiesbaden. Wiesbaden, Jahrb. Ver. Natk., **59**, 1906, (257–278).

Strand, E. **7**. Isländische Arachniden. Wiesbaden, Jahrb. Ver. Natk., **59**, 1906, (279–284).

Strand, E. **8**. Tropisch-afrikanische Spinnen des Kgl. Naturalienkabinetts in Stuttgart. Stuttgart, Jahreshefte Ver. Natk., **62**, 1906, (13–103).

Strand, E. **9**. Studien über Bau und Entwicklung der Spinnen. I–III. Zs. wiss. Zool., Leipzig, **80**, 1906, (515–543), pl. xxviii.

Strand, E. *vide* Bösenberg.

Stricht, O. Van der. Signification de la couche vitellogène dans l'ovocyte de Tégénaire. Comptes rendus de l'Association des anatomistes, 6^e session Toulouse, Nancy, **1904**, (140–143).

Strickland, W. W. Note on a curious faculty in spiders. Naturalist, London, **1906**, No. 598 (401).

Suworow, E. K. Zur Anatomie von *Ixodes reduvius*. St. Peterburg, Trav. Soc. nat., **37**, No. 7–8 1906, (310–315, 366).

Tanaka, Keisuke. Ueber meine japanische Kedani-Krankheit. Centralbl. Bakt., Jena, Abt. I, **42**, Originale, 1906, (16–18, 104–108, 235–240, 329–334).

Thallwitz, J. *vide* Schorler, B.

Theobald, F. V. Flies and ticks as agents in the distribution of disease. London, Proc. Ass. Econ. Biol., **1**, pt. i, 1905, (17–26).

Thesing, C. Aus dem Leben der Spinnen. Aus. d. Natur, Stuttgart, **2**, 1906, (405–412), 1 Taf.

(Thioux). Un cas de *Pentastomum constrictum* observé au Senegal. Paris, C.-R. soc. biol. **59**, 1905, (78–80)).

[**Thon**, K[arel]. **1**. O Žlázách Holothryridů. [Ueber die Drüsen der Holothryriden.] Prag, Sitzber. Böhm. Ges. Wiss., **1905**, No. 10, (1–41), pls. i and ii.]

Thon, K. **2**. Ergebnisse einer naturwissenschaftlichen Reise zum Erdschas-Dagh (Kleinasien) I. Zoologischer Teil. Hydrachniden. Wien, Ann. Nat. Hist. Hofmus., **20**, 1905, (155–163), pls. vi and vii.

Thon, K. **3**. Monographie der Hydrachniden Böhmens. I. Teil. *Limnocharidae* Kramer. Arch. Natw. LdDurchf. Böhmen, Prag **12**, pt. 2, 1906, (1–84).

Thon, K. **4**. Die äussere Morphologie und die Systematik der Holothryriden. Zool. Jahrb., Jena, Abt. f. Syst., **23**, 1906, (677–724), 2 Taf.

Thor, Sig. **1**. *Lebertia*-Studien VI–VIII. Zool. Anz., Leipzig, **29**, 1906, (761–790).

Thor, S. **2**. *Lebertia*-Studien IX. Zool. Anz., Leipzig, **30**, 1906, (70–78).

Thor, S. **3**. *Lebertia*-Studien X–XIV. Zool. Anz., Leipzig, **30**, 1906, (271–275, 463–484).

Thor, S. **4**. Ueber zwei neue in der Schweiz von Herrn C. Walter (Basel) erbeutete Wassernilben. Zool. Anz., Leipzig, **31**, 1906, (67–71).

Trägårdh, I. Neue Acariden aus Natal und Zululand. Zool. Anz., Leipzig, **30**, 1906, (870-877).

Trani, E. Sul *Pirata piraticus* Clerk. Napoli, Boll. Soc. nat., **19**, (1905), 1906, (128-131).

Trouessart, E. 1. Note complémentaire sur un Sarcoptide plumicole, endoparasite accidentel chez l'homme. Arch. parasit., Paris, **10**, 1906, (314-315).

Trouessart, E. 2. Note sur le *Gamasus auris* (Leidy 1872) type d'un genre nouveau (*Railletia*). Paris, Bul. soc. zool., **27**, 1902, (231-233).

(**Trouessart, E.** vide Favette, J.)

Tullgren, A. 1. Några iakttagelser rörande *Teutana grossa* C. K. [Remarks on *Teutana grossa* C. K.] Entomol. Tidskr., Stockholm, **27**, 1906, (182-190).

Tullgren, A. 2. Öländska hydrachnider. [Hydrachnida of Öland.] Entomol. Tidskr., Stockholm, **27**, 1906, (191-194).

Tullgren, A. 3. Svensk spindel-fauna. Första Ordningen, Klokrypare, *Chelonethi*. Andra Ordningen, Låckespindlar, *Phalangidea*. [The Swedish spider-fauna. First order: *Chelonethi*. Second order: *Phalangidea*.] Entomol. Tidskr., Stockholm, **27**, 1906, (195-213).

Tullgren, A. 4. Notiser rörande arter af Arachnidgrupperna *Chelonethi* och *Phalangidea*. [Notes on the Arachnid-groups *Chelonethi* and *Phalangidea*.] Entomol. Tidskr., Stockholm, **27**, 1906, (214-218).

Uyttenboogaart, D. L. Nestbouw van *Argyroneta aquatica*. [Nestbau von *Argyroneta aquatica*.] 's Gravenhage, Ber. Ned. Ent. Ver., **2**, 1905, (2-4).

(**Wallace, Louise Baird.** The spermatogenesis of the spider. Woods Holl, Mass., Mar. Biol. Lab. Bull., **8**, 1905, (169-188, pl.))

Walter, C. 1. Hydrachniden aus der Tiefenfauna des Vierwaldstätter-Sees. (Vorl. Mitt.) Zool. Anz., Leipzig, **30**, 1906, (322-326).

Walter, C. 2. Neue Hydrachniden-arten aus der Schweiz. Zool. Anz., Leipzig, **30**, 1906, (570-575).

Warburton, C. and Pearce, N. D. F. On new and rare British mites of the

family *Oribatidae*. London, Proc. Zool. Soc., **1905**, (564-569), pls. xix and xx.

Wellman, F. C. A note on the habits of *Ornithodoros moubata*. J. Trop. Med., London, **9**, 1906, (215).

Werner, F. Ergebnisse einer naturwissenschaftlichen Reise zum Erdschias-Dagh (Kleinasien). I. Zoologischer Teil. Skorpione und Solifugen. Wien, Ann. Nat. Hist. Hofmus., **20**, 1905, (113-114).

Wheler, E. G. British ticks. J. Agric. Sci., Cambridge, **1**, 1906, (400-429), pl. v-x.

Wildeman, E. de. Notes sur quelques Acarophytes. Bruxelles, Ann. Soc. Scient., **30**, fasc. 2, 1906, (237-256).

Williams, S. R. Anatomy of *Boophilus annulatus* Say. Boston, Mass., Proc. Soc. Nat. Hist., **32**, 1906, (313-334), pls. xviii-xxii.

Williamson, W. A contribution to the Hydrachnid fauna of Scotland. Edinburgh, Trans. Nat. Soc., **5**, pt. 4, 1906, (239-242).

With, C. J. The Danish Expedition to Siam, 1899-1900. III. *Chelonethi*. An account of the Indian false-scorpions together with studies on the anatomy and classification of this order. Kjöbenhavn, Vid. Selsk. Skr., **7**, Afd. 3, 1906, (1-214), pls. i-iv.

Wolcott, R. H. Water-mites, how to collect them. Providence, R. I., Bull. Roger Williams Park Mus., No. **11**, 1905, (5 unnumb. pp.), pl.

Ziemann, H. The distribution of blood-sucking insects in West Africa. [Translation by B. R.] J. Trop. Med. London, **9**, 1906, (353-354).

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Norway, *Gamasus* 1 sp. n., 3 varr. n.; **Berlese**.

Iceland, *Araneae* 1 var. n.; **Strand**, 7

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Finland, *Uropoda* sp. n.; **Reuter**.

Caucasus, *Scorpiones* 1 subsp. n.; **Birula**, 2.

Germany:—*Phyllocoptes* sp. n.; **Börner**.—*Gamasus* 1 sp. n., 2 varr. n.; **Berlese**.—*Hydrachnida*; **Schorler**, **Thallwitz** and **Schiller**.—*Tardigrada*; **Schorler**, **Thallwitz** and **Schiller**.—Bavaria, *Lebertia inaequalis*; **Thor**, 3.

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Holland, *Acari* 12 spp. n., 1 var. n.; **Oudemans**, 2, 3, 4.

Belgium, *Hydrachnida*; **Rousseau**.

Luxembourg, *Araneae*; **Feltgen**.

Britain:—*Araneae* 1 gen. and 6 spp. n.; **Cambridge**, O. P., 1.—*Araneae* of *Diplocephalus* group; **Smith**, 1.—*Oribatidae* 7 spp. n.; **Warburton** and **Pearce**.—*Ixodidae*; **Wheler**.—*Pseudoscorpiones*; **Cambridge**, O. P., 1.

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Crete, *Scorpiones*; **Penther**.

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Caspian region, *Solifugae* 2 spp. n.; **Birula**, 4.

Persia: *Scorpiones* 1 sp. n., 2 subspp. n.; **Birula**, 3; *Solifugae* 6 spp. n.: **Birula**, 1.

Asia Minor:—*Opiliones*, *Pseudoscorpiones*, *Araneae* gen. pp. and varr. n.;

Nosek; *Scorpiones* and *Solifuga* spp. n.;
Werner; *Hydrachnida* 2 spp. n.; Thon,
2.

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Birula, 3.

Aral Sea and Balchash lake, *Scorpiones*
and *Solifugae*; Birula, 5.

Mongolia, *Hydrachnida* 2 spp. n.;
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Indo-China, *Araneae* 1 gen. and sp. n.;
Simon, 4.

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Piersig: *Pseudoscorpiones* 6 spp. n.;
With.

Nicobars, *Pseudoscorpiones* 1 gen. n.,
8 spp. n.; With.

India, *Pseudoscorpiones* spp. n.; With;
Ixodidae 2 spp. n.; Neumann, 1.

S. India, *Phrynichus*; Rivington.

S. India, *Arachnida* spp. n.; Simon,
3, 7.

Ganges, *Porocephalus* sp. n.; Linstow.

Sikkim, *Oribatidae* 1 gen. n., 8 spp. n.;
Pearce.

Ceylon, *Araneae* spp. n.; Simon, 2,
3, 7.

Ceylon, *Ixodidae* 2 spp. n.; Neu-
mann, 1.

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Loman, 2; *Pseudoscorpiones* 6 spp. n.;
With.

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Simon, 2: *Hydrachnida* 20 spp. n., 1
var. n.; Piersig.

Sumatra, *Araneae* 5 spp. n., 1 var. n.,
Strand, 4, 6.

Java: *Hydrachnida* 9 spp. n.; Koe-
nike, 2; *Carpoglyphus* sp. n. (*Acari*);
Haan.

Celebes, *Pseudoscorpiones* 1 sp. n.;
With

Africa, Madagascar, Seychelles.
Mediterranean States. /

Algeria and Tunis, *Araneae* genn. and
spp. n.; Strand, 3.

Egyptian Sudan and N. Uganda,
Araneae 11 spp. n., 2 subspp. n.;
Simon, 1.

Abyssinia and Somaliland, *Araneae*,
genn. and spp. n.; Strand, 3.

West Africa:—*Araneae* 25 spp. n.
and 2 varr. n.; Strand, 8: *Ixodidae*;
Ziemann: *Ixodidae* 2 spp. n.; Neu-
mann, 1: *Pseudoscorpiones* 1 fam. n.,
1 gen. n., 7 spp. n., 2 varr. n.; Ellingsen.

Senegambia, *Mygalomorphae* sp. n.;
Simon, 5.

Cameroons, *Arachnida*; Sjöstedt;
Araneae 5 spp. n.; Strand, 4, 5.

(Juan-Fernandez, *Araneae* 2 spp. n.;
Simon, 8.)

San Thomé Isd., *Araneae* 1 sp. n.;
Strand, 3.

East Africa: *Araneae* 6 spp. n.;
Strand, 8: *Ixodidae* 2 spp. n.; Neu-
mann, 1.

German E. Africa: *Araneae* genn. and
spp. n.; Strand, 3: *Hydrachnida* 5 spp.
n.; Koenike, 1: *Scorpiones*; Kraepelin.

Lake Nyasa, *Hydrachnida*; Halbert, 1.

South Africa:—*Araneae* spp. n.;
Strand, 4: Simon, 2: *Ixodidae*; Lounsbury.

Kalahari desert, *Rhipicephalus* sp. n.:
Donitz, 1.

Cape of Good Hope, *Gamasus* 1 sp. n.;
Berlese.

Natal and Zululand, *Acari* genn. and
spp. n.; Trägårdh.

German South-west Africa, *Araneae*
2 spp. n.; Strand, 8.

Madagascar, *Araneae* spp. n.; Simon,
2.

Seychelles, *Acari* 3 spp. n.; Thon, 4.

North America.

Canada, *Oribatidae* 1 sp. n.; Banks, 3.

Gulf of S. Lawrence, Anticosti Isd.,
Arachnida; Schmitt.

United States, *Araneae* 2 spp. n.;
Crosby; *Tyroglyphidae* 17 spp. n.;

Banks, 2: *Oribatidae* 24 spp. n.; **Banks, 3.**

Washington, *Arachnida*; **Bergroth.**

Michigan, *Araneae*; **Ruthven.**

Kansas, *Araneae*; **Scheffer, 2.**

Mexico and Centr. and S. America.

h

Mexico: *Araneae* 1 sp. n.; **Strand, 4:** *Ixodidae* 1 sp. n.; **Neumann, 1.**

Guatemala, *Atemnus elongatus*; **Berger.**

Bahamas, *Arachnida* 3 spp. n.; **Banks, 1.**

Tropical S. America, *Araneae* spp. n.; **Simon, 2.**

Pernambuco, *Spelaeorhynchus praeursor*; **Neumann, 2.**

Bolivia, *Ixodidae* spp. n.; **Neumann, 1.**

Brazil, *Pergamasus*; **Heim and Oudemans, 2;** *Ixodidae* spp. n.; **Neumann, 1.**

Paraguay, *Gamasus* sp. n.; **Berlese.**

(Tucuman, *Scorpiones*; **Simon, 10.**)

Galapagos Is., *Amblyomma* sp. n.; **Neumann, 1.**

Tristan d'Acunha, *Ixodes* sp. n.; **Neumann, 1.**

Australasia (incl. New Guinea). *i*

New Guinea: *Araneae* sp. n.; **Simon, 2;** *Araneae* 1 var. n.; **Strand, 6;** *Opiliones* 1 gen. n., 3 spp. n.; **Loman, 1:** *Acari*; **Oudemans, 12:** *Trombidium* 2 spp. n.; **Oudemans, 1.**

(New Guinea, *Acari* spp. n.; **Oudemans, 18.**)

Fiji Is., *Acari* 2 spp. n.; **Nalepa.**

(Australia, *Araneae* 1 sp. n.; **Rainbow, 2.**)

Australia:—*Araneae* spp. n.; **Simon, 2;** *Lyceosidae* 10 spp. n.; **Hogg:** *Acari* 5 spp. n.; **Rainbow.**

New South Wales, *Argas* sp. n.; **Froggatt.**

Tasmania, *Araneae* spp. n.; **Simon, 2.**

New Caledonia, *Araneae* spp. n.; **Simon, 2.**

Polar regions.

k, o

Araneae 1 gen. n., 2 spp. n.; **Strand, 1, 2.**

Spitzbergen, *Tardigrada* 2 spp. n.; **Richters, 1.**

III.—SYSTEMATIC=3031.

SCORPIONES.

Scorpionida of Crete **PENTHER** Wien, Verh. Zool. Bot. Ges. **56** (60–64).—of the Loochoo Islands and Formosa (Japanese). **IWAKAWA**, Dobuts. Z., Tokyo, **18**, (5–12) pl.

Buthcolus conchini **Simon**, synonymy **BIRULA** St. Peterburg, Ann. Mus. zool. Ac. Sc. **10** (126).—*B. melanurus* **Kessl.** defensive attitude, **FAUSSEK** St. Peterburg, Zap. Russ. Geogr. Obsč., **27**, (146)

Buthus acutecarinatus **E. Simon**, synopsis of subsp. **BIRULA**, St. Peterburg, Bull. Ac. Sc., **23**, (139–140); *matthiesseni* **Persia** (142) *judaicus* (139, 140) **Palestine and Arabia**, subsp. n. **BIRULA** St. Peterburg, Bull. Ac. Sc. **23**.—*B. cognatus*, **L. Koch** synonymy (122) *caucasicus fischeri* subsp. n. **Caucasus** (121); **BIRULA**, St. Peterburg, Ann. Mus. zool. Ac. Sc., **10**.—*B. eupeus* (**C. Koch**), synopsis of subspecies, **BIRULA**, St. Peterburg, Bull. Ac. Sc., **23**, (122–134); *philippovitschi* subsp. n. **Persia**; **BIRULA**, T.c. (127, 128).—*B. eupeus thersites*, life-history; **BIRULA** Tashkent, Izv. Turk. Otd. Russ. Geogr. Obsč. **4**, (42–48) pl. v. —*B. europaeus* egg-laying **MINGAUD** Nîmes, Bul. soc. étud. sci. nat. **33** (168–170).—*B. schach* sp. n. **Persia**; **BIRULA**, St. Peterburg, Bull. Ac. Sc., **23**, (134).—*B. zarudnianus* nom. n. for *Hemibuthus zarudnyi* **Bir.**, **BIRULA** T.c. (144).

Eusecorpius flavicaudis in **Paris** **DELVAL** Paris, Bul. soc. ent., **1904**, (178).

PEDIPALPI.

Phrynichus cunatus **Poc.** in S. India **RIVINGTON** Bombay, J. Nat. Hist. Soc. **17**, (523).

Thelyphonus, development, phylogeny etc. **SCHIMKEWITSCH**, St. Peterburg, Trav. Soc. Nat. **35**, 1906 (1–15) with 6 text-figures; **Zs. wiss. Zool.** **81** (1–95), pls. i–viii.

Typopeltis crucifer Poc. *kochi* subsp. n.
Formosa SCHWANGART, Zool. Anz., **30**,
(331-337).

PALPIGRADI.

Kaenenia draco sp. n. Majorca in
caves PEYERIMHOFF Paris, Bul. soc. ent.
1906 (300, 301).

ARANEAE.

Araneae, classification, form of body
DAHL, Zool. Anz., **31**, (60-64).

Anatomy and histology of sexual organs
STRAND Zs. wiss. Zool. **80**, (515-543)
pl. xxviii.—Physiological effects of their
venom MITCHELL Knowledge and Sci.
News, London **3** (317-318).

Araneae of France, PLANET, Araignées,
Histoire naturelle de la France, 14^e,
partie. Paris, (1-341, a.), fig. et 18 pl.

AVICULARIIDAE.

Acanthopelma maculata sp. n. Ba-
hamas, BANKS, New York, N.Y., Bull.
Amer. Mus. Nat. Hist. **22** (185).

Ancylotrypa atra sp. n. Somaliland,
STRAND, Zool. Anz. **30** (605).—*A. bicor-
nuta* sp. n., South Africa, STRAND, Wies-
baden, Jahrb. Ver. Natk. **59** (3).

Avicularia subvulpina sp. n. South
Africa STRAND. T.c. (22).

Ceratogyrus sanderi sp. n., South-
west Africa STRAND Stuttgart, Jahres-
hefte Ver. Natk. **62**, (23).

Cyphonisia kaesseri, sp. n., East
Africa STRAND T.c. (14).—*C. maculipes*
sp. n. Cameroons; STRAND Wiesbaden,
Jahrb. Ver. Natk. **59** (287).

Cyrtopholis bartholomaci Latr. charac-
ters STRAND T.c. (4).

Eurypelma hageni sp. n. Mexico
STRAND T.c. (19).

Helignomerus longipes sp. n. Somali-
land STRAND Zool. Anz. **30** (605).

Hysteroerates spellenbergi (25), *ros-
seleri* (27), *haasi* (31), spp. n. Cameroons;
STRAND Stuttgart, Jahreshefte Ver. Natk.
62.—*H. ueileri*, (10), *maximus*, (14), spp.
n. Cameroons STRAND Wiesbaden, Jahrb.
Ver. Natk. **59**.

Ishnocolus fasciculatus sp. n. Somali-
land STRAND Zool. Anz. **30** (606).

Loxoptygella gen. n. *erlangeri* sp. n.
Somaliland STRAND T.c. (607).

Macrothele vidua sp. n. Himalayas
SIMON Paris, Ann. soc. ent. **75** (306).

Phoneyusa chevalieri sp. n. Fouta
Jallon, West Africa SIMON Bul. Muséum
Paris 1906 (189).

Phormictopus cancerides Latr. *tenuis-
pina* var. n. no locality given STRAND
Wiesbaden, Jahrb. Ver. Natk. **59** (17).

Phormingochilus fuchsi sp. n., Suma-
tra, STRAND T.c. (3).

Pisenor pustulatus sp. n. Somaliland
STRAND Zool. Anz. **30** (606).

Pterinochilus raptor sp. n. Somali-
land STRAND T.c. (606).—*P. widenmanni*
(17), *mamillatus* (21), spp. n. East
Africa STRAND Stuttgart, Jahreshefte
Ver. Natk., **62**.

ULOBORIDAE.

Dinopsis seriata, *biaculeata*, *fastigata*
(284), *pardalis* (285), spp. n. Brazil
SIMON Ann. soc. ent. Belg. **50**.

Hyptiotes affinis sp. n. Japan BÖSEN-
BERG and STRAND, Abh. Senckenberg
Ges. **30** (108), pl. xv f. 393.

Lathys ocellata (109) pl. xvi f. 465,
orientalis (110) pl. xvi f. 475, *annulata*
(110) pl. vi f. 468, *novembris* (375)
pl. iii f. 4 spp. n. Japan BÖSENBERG and
STRAND, T.c.

Miagrammopes orientalis sp. n. Japan
BÖSENBERG and STRAND, T.c. (109) pl. xv
f. 422.—*M. sexpunctatus* sp. n. Hima-
layas SIMON Paris, Ann. soc. ent. **75**
(306).

Uloborus furunculus (285) *hilaris*
(286) spp. n. India SIMON Ann. Soc. ent.
Belg. **50**.—*U. varians* (102) pl. iii f. 1,
pl. xv f. 429, *defectus* (103) pl. xv f. 427,
sybotides (104) pl. xv. ff. 428, 431, *dubius*
(105) pl. xv f. 430, *prominens* (106) pl. xv
f. 410, *incognitus* (374) pl. iii f. 17 spp.
n. Japan BÖSENBERG and STRAND Abh.
Senckenb. Ges. **30**.

Uloborus bigibbosus sp. n. Pondi-
chery SIMON Paris, Ann. Soc. ent. **74**
(163).

PSECHRIDAE.

Fecenia maforensis sp. n. New
Guinea SIMON Ann. Soc. ent. Belg. **50**
(287).

Psecchrus himalayanus sp. n. India
SIMON T.c. (287).

Themacrys gen. n. (287) *irrorata*
Natal, *stolida* Zululand (288) spp. n.
SIMON T.c.

ZOROPSIDAE.

Acanthoetenus obauratus Brazil *dumicola* Venezuela (289) *gaujoni* Ecuador (290) *plebejus* Venezuela, Trinidad *andicola* Bolivia (291) spp. n. SIMON Ann. Soc. ent. Belg. 50.

Uduba madagascariensis Vinson, *funerea* (293) *inhonesta* (294) spp. n. Madagascar SIMON T.c.

DICTYNIDAE.

Amaurobius revision of European species, *dubius* nom. n. for *Coelotes roscidus* L. Koch (432) *pastor*, Sim. *tirolensis* subsp. n. Alps (458) ff. 11, 13, 51, 64 *karliński* sp. n. Herzegovina, Bosnia (469) f. 3 KULCZYŃSKI Kraków, Bull. Intern. Acad. 1906 (417-476) pl. xiv, xv.—*A. (Titanoeca) incerta* sp. n. Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. 20 (120)—*A. promontorii* Cape of Good Hope (294) *gauscapatus* Australia *praealvus* Tasmania (295) spp. n. SIMON Ann. Soc. ent. Belg. 50.—(*A. socialis* sp. n. Australia RAINBOW Rec. Austr. Mus. 6 (9) fig. 1 pl. iii).

Aphyetoschaema guttipes Tasmania (297) *sedula* Australia (298) *misella* (298) *pullata*, *noxibilis* New Caledonia (299) spp. n. SIMON Ann. Soc. ent. Belg. 50.

Auximus rhombifer (300) *fulvipes*, *quitensis*, *harpagulus* (301) *procerulus* (302) spp. n. Ecuador SIMON T.c.

Badumna varia (296) *cinetipes* (297) spp. n. Australia SIMON T.c.

Callevophthalmus gen. n. for *Lathys alba* Keys. and *L. maculata* Keys. SIMON T.c. (303).

Ciniflo annulatus sp. n. Dalmatia, KULCZYŃSKI, Ann. Hist.-Nat. Mus. Nat. Hung., 4, (157).

Derxema gen. n. *arguta* sp. n. Australia SIMON Ann. Soc. ent. Belg. 50 (303).

Dictyna abyssinica sp. n. Somaliland, STRAND Zool. Anz. 30 (667).—*D. colona* New Caledonia (303) *bispinosa* Burma *kandiana* Ceylon *velifera* Sikkim (304)

estebanensis Venezuela (305) spp. n. SIMON Ann. soc. ent. Belg. 50.—*D. felis* (111) pl. xvi f. 476, *foliicola* (112) pl. vi f. 67, pl. xvi ff. 470, 471, *procerula* (112) pl. xvi, f. 462 spp. n. Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., 30.—*D. grossa* sp. n. Himalayas SIMON Paris, Ann. soc. ent. 75 (306).

(*Dictyna turbida* Nilghiris *nigricauda*, *smaragdula* Ceylon spp. n. SIMON Paris, Ann. soc. ent. 74 (165, 166).)

Episinus lugubris, Simon, Dorsetshire CAMBRIDGE O. P. Proc. Dorset Nat. Hist. F. Cl. 27 (74-83, pl. A f. 2).

Heterodictyna Dahl. = *Dictynina* Banks DAHL Zool. Anz. 31 (63).

Megadictyna gen. n. *thilenii* sp. n. New Zealand DAHL T.c. (62, 63).

ERESIDAE.

Dresserus inconspicuus sp. n. Somaliland STRAND Zool. Anz. 30 (668).

Seothyra perelegans, *semicoccinea* spp. n. South Africa SIMON Ann. soc. ent. Belg. 50 (307).

Stegodyphus corallipes (305) *simplicifrons* (306) Madagascar, *luctuosus* Mashonaland (306) spp. n. SIMON T.c.—*S. 2½-vittatus* Somaliland (667) *tibifer* German E. Africa (687) spp. n. STRAND Zool. Anz. 30.

FILISTATIDAE.

Filistata hasselti sp. n. Malayan Islands SIMON Ann. soc. ent. Belg. 50 (308).

OONOPIDAE.

Gamasomorpha karschi sp. n. Japan BÖSENBERG and STRAND Abh. Senckenb. Ges., 30, (117) pl. xvi f. 455.

Oonops corticalis sp. n. Japan BÖSENBERG and STRAND, T.c. (116) pl. vi f. 60.

Xestaspis recurva sp. n. Shoa, Abyssinia STRAND Zool. Anz. 30 (680).

SICARIIDAE.

Loxosceles bergeri sp. n. German South-West Africa STRAND Wiesbaden, Jahrb. Ver. Natk., 59 (26).—*L. rufescens* characters BÖSENBERG and STRAND Abh. Senckenb. Ges., 30 (113) pl. vi f. 69 pl. xvi f. 450.

Loxoscella **gen. n.** *pallidecolorata* **sp. n.** Somaliland STRAND Zool. Anz. **30** (668).

Seytodes nigrolineata characters BÖSENBERG and STRAND Abh. Senckenb. Ges. **30** (114) pl. vi ff. 62, 71 pl. xii 267 pl. xv f. 441.—*S. subthoracica* (10) *camerunensis* (42) Cameroons, *suffusa* (13) East-Africa **spp. n.** STRAND Stuttgart, Jahreshefte Ver. Natk. **62**.

DYSDERIDAE.

Ariadna lateralis Karsch (118) pl. vi f. 63 pl. xv ff. 433, 434, *orientalis* (119, 376) pl. vi f. 59 **sp. n.**, Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30**.—*A. taprobatica* Ceylon *nebulosa* Madura *oreades* Ceylon **spp. n.**, SIMON Paris, Ann. soc. ent. **75** (280).—*A. viridis* **sp. n.** South-west Africa STRAND, Stuttgart, Jahreshefte Ver. Natk., **62** (45).

Dysdera argaiea (120) pl. iv f. 2 *asiatica* (121) pl. iv f. 3 *montana* (122) *longimandibularis* (123) pl. iv f. 4 **spp. n.** Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. **20**.—*D. römeri* **sp. n.** Somaliland, STRAND Zool. Anz. **30** (668).

Harpactes chyzeri **sp. n.** Dalmatia, KULCZYŃSKI Ann. Hist.-Nat. Mus. Nat. Hung., **4** (159).—*H. sturanyi* (124) pl. iv f. 5 *babori* (125) pl. iv f. 6 **spp. n.** Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. **20**.

Segestria inda **sp. n.** India SIMON Paris, Ann. soc. ent. **75** (279).

DRASSIDAE.

Allodrassus **gen. n.** *tridentatus* **sp. n.** Somaliland STRAND Zool. Anz. **30** (610).

Callilepis asiatica (124) pl. xvi f. 488, *saya* (377) pl. vii f. 80, **spp. n.** Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30**.

Cilbaeron delimbatus **sp. n.** Somaliland STRAND Zool. Anz. **30** (611).

Drassodes oculinotatus (119) pl. xvi f. 480, *pater* (119) pl. xvi f. 483, *rotundifoveatus* (120) pl. xvi f. 481, *unci-insignitus* (120) pl. xvi f. 500, *depilosus* (376) pl. vii f. 83, *nox* (376) pl. vii f. 82, **spp. n.**, Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30**.—*D. similis* **sp. n.** Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. **20** (125).—*D. subriduatus*, (608), *vorax*, *carinatus*, *prothesimifor-*

mis, (609), *sternatus*, *adisensis* (681), **spp. n.** Abyssinia and Somaliland STRAND Zool. Anz. **30**.

(*Drassodes heterophthalmus* **sp. n.** Coromandel SIMON Paris, Ann. soc. ent. **74** (168).)

Echemella **gen. n.** *quinquedentata* **sp. n.** Somaliland STRAND Zool. Anz. **30** (610).

Gnaphosa compirensis **sp. n.** Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30** (123) pl. vi f. 481.—*G. lucifuga minor* var. **n.** Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. **20** (128).

Maniana **gen. n.** *defecta* **sp. n.** Somaliland STRAND Zool. Anz. **30** (614).

(*Mulicymnis lubrica* **sp. n.** Pondichery SIMON Paris, Ann. soc. ent. **74** (169).)

Platyoides bidentatus **sp. n.** Somaliland STRAND Zool. Anz. **30** (607).

Prothesima abbaensis, *multidentata* (611), *albobirittata*, *dorsisecutata* Somaliland (612), *quadridentata* Tunis (613), *neumannii* (681), *dalotensis*, E. Africa, *schoënsis*, Abyssinia (682), **spp. n.** STRAND T.c.—*P. asiatica* (121) pl. vi f. 78 pl. xvi f. 487, *x-notata* (122) pl. xvi f. 489, *pallidipatellis* (123) pl. xvi f. 490, **spp. n.**, Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30**.—*P. strandi* **sp. n.** Priunkipo Is. in Marmora Sea NOSEK Wien, Ann. Nat. Hist. Hofmus. **20** (126) pl. iv f. 7.

Pterotricha lentiginosoides (127) pl. iv. f. 8 *pulchra* (127) pl. iv f. 9 **spp. n.** Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. **20**.

Pythoniassa chordivulcata **sp. n.** Somaliland, STRAND Zool. Anz. **30** (613).

Scotophaeus lamperti **sp. n.** German S.W. Africa, STRAND Wiesbaden, Jahrb. Ver. Natk., **59** (28).—*S. parviusculus* **sp. n.** Somaliland, STRAND Zool. Anz. **30** (611).

(*Scotophilinus* **gen. n.** *maindroni* **sp. n.** Coromandel SIMON Paris, Ann. Soc. ent. **74** (169).)

Talanites dorsilineatus **sp. n.** Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30** (121, 377) pl. vii f. 84.

Theumella **gen. n.** *typica*, *penicillata* **spp. n.** Somaliland STRAND Zool. Anz. **30** (607, 608).

ZODARIIDAE.

(*Capheris nitidieps*, *stillata* spp. n. S. India SIMON Paris, Ann. soc. ent. **74** (171).)

(*Hermippus cruciatus* sp. n. Coromandel SIMON Paris, Ann. Soc. ent. **74** (172).)

Hermippus affinis sp. n. Somaliland, STRAND Zool. Anz. **30** (668).—*H. japonicus* sp. n. Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30** (125) pl. vi f. 73 pl. xv f. 439.

Laches vittatus sp. n. Tunis, STRAND Zool. Anz. **30** (669).

Mallinella gen. n. *maculata*, *scutata* spp. n. Somaliland STRAND T.c. (670).

Mallinus (?) *defectus* sp. n. Tunis STRAND, T.c. (670).

Storena nilgherina sp. n. Nilghiris SIMON Paris, Ann. Soc. ent. **75** (281).

(*Storena redimita* sp. n. Pondichery SIMON Paris, Ann. Soc. ent. **74** (173).)

(*Suffucia cingulata* sp. n. Pondichery SIMON Paris, Ann. Soc. ent. **74** (174).)

Zodarium dubium, *tuneticum* spp. n., Tunis, STRAND Zool. Anz. **30** (669).—*Z. thoni* sp. n. Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. **20** (128) pl. iv f. 10.

UROCTEIDAE.

Uroctea compactilis Karsch, Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**, (126) pl. vi f. 70 pl. xv f. 444.

PHOLCIDAE.

Pholeus crypticolens sp. n., Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30** (127) pl. vi f. 72 pl. xv f. 440.

Smeringopus affinitatus, *zonatus* Somaliland (671), spp. n., STRAND Zool. Anz. **30**.

S. peregrinus sp. n., East Africa STRAND Stuttgart, Jahreshefte Ver. Natk. **62** (47).

THERIDIIDAE.

Achaea asiatica sp. n. Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30** (148) pl. xii f. 278.

Argyrodes atriapicatus sp. n. Somaliland STRAND Zool. Anz., **30** (682).—*A. bona dea* (129) pl. v f. 52 pl. xii f. 264

fissifrons (130) pl. v f. 48 pl. xi ff. 235, 236, 240 *miniacus* (132) pl. xv ff. 399, 403 characters, *fur* (133) pl. xi f. 226 *cruciotum* (134) pl. x f. 188 spp. n. Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges. **30**.

Ariamnes cylindrogaster Sim. (128) pl. v f. 53 pl. x f. 195, *sagunus* (129, 378) pl. v f. 46 sp. n. Japan BÖSENBERG and STRAND T.c.

Asagena japonica sp. n. Japan BÖSENBERG and STRAND T.c. (156, 380) pl. v f. 44. —*A. phalerata seraiensis* var. n. Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. **20** (131).—*A. violacea* sp. n. Somaliland STRAND Zool. Anz., **30** (615).

Bathyphantes sprutus sp. n. Norfolk, CAMBRIDGE O. P. Proc. Dorset Nat. Hist. F. Cl. **27** (76, 85) pl. A ff. 4-7.

Dipoena castrata (149) pl. v f. 50 pl. xii ff. 246, 247, *caninotata* (150) pl. xii f. 266, *mutilata* (150) pl. xii f. 275, *unifolia* (151) pl. xii f. 285, *flavomarginata* (151) pl. xii f. 279, *longisterna* (152) pl. xii f. 189 spp. n. Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30**.

Enoplognatha dorsinotata (156) pl. x f. 194, *japonica* (156) pl. v f. 47 pl. xii f. 250, *crassipes* (157) pl. xii f. 271, *foliicola* (381) pl. iv f. 36 spp. n. Japan BÖSENBERG and STRAND T.c.—*E. thoracicoidea* sp. n. Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. **20** (129).

Episinus affinis (136) pl. v f. 55 pl. xii f. 251, *caudifer* (137, 379) pl. iv f. 39 spp. n. Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30**.

Euryopsis mustelina characters BÖSENBERG and STRAND T.c. (137) pl. iii f. 2 pl. xii f. 276.

Histagonia marxi sp. n. Tennessee and District of Columbia CROSBY Canad. Entomol. **38** (309).

Hyptimorpha gen. n. *mirabilis* sp. n. Japan BÖSENBERG and STRAND Abh. Senckenb. Ges., **30**, (135-136) pl. xi f. 227.

Lascola dissimilis Cambr., Dorsetshire CAMBRIDGE O. P. Proc. Dorset Nat. Hist. F. Cl. **27** (75, 81 pl. A f. 1).

Lithyphantes cavernicola (154) pl. v f. 57, (?) *dubius* (380) pl. iv f. 34 (?) *minus* (380) pl. iii f. 10 spp. n. Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.—*L. dahli* sp. n. Asia Minor NOSEK

Wien, Ann. Nat. Hist. Hofmus. **20** (130) pl. iv f. 11.

Maro **gen. n.** *minutus* **sp. n.** Huddersfield CAMBRIDGE O. P. Proc. Dorset Nat. Hist. F. Cl. **27** (77, 86-88) pl. A ff. 12-18.

(*Moneta grandis* **sp. n.** Nilghiris SIMON Paris Ann. soc. ent. **74** (176).)

Stearodea abrupta characters BÖSENBERG and STRAND Abh. Senckenb. Ges. **30** (152) pl. xii f. 253.

Tarsiphantes **gen. n.**, *latithorax* **sp. n.** Arctic, STRAND Arctic Araneae, "Fram" expedition (30).

Teutana grossa C. K. habits TULLGREN Entomol. Tidskr. **27** (182-190).—*T. transversifoveata* **sp. n.** Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30** (153) pl. xii f. 288.

Theonoe stridula **sp. n.** Missouri CROSBY Canad. Entomol. **38** (308).

Theridium darolense, *lamperti*, **spp. n.** Somaliland STRAND Zool. Anz., **30** (615).—*T. octomaculatum* (138) pl. iii f. 14 pl. xii f. 281 *subpallens* (139) pl. xii f. 29 *ferrum-equinum* (139) pl. xii f. 261 *japonicum* (140) pl. xii f. 283 *indicis* (141) pl. xii f. 280 *kompirense* (141) pl. v. f. 41 pl. xii f. 284 *mneon* (142) pl. xii f. 286 *eulieivorum* (143) pl. xii f. 287 *sterninotatum* (143) pl. xii ff. 289, 290 *angulithorax* (144) pl. xii f. 292 *yunohamende* (145) pl. x f. 185 *sudabides* (145) pl. x f. 186 *argyrodiforme* (147) pl. x f. 190 *subadultum* (147) pl. v f. 42 pl. x f. 191 *higense* (379) pl. v f. 45 **spp. n.** Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30**.—*T. tepidariorum* oviposition, cocoon, hatching (1-10) dimorphism of eggs (115-118) MONTGOMERY Woods Holl, Mass., Mar. Biol. Lab. Bull. **12**.

(*Theridium leucophaeum*, *nilgherinum*, *maindroni* **spp. n.** S. India SIMON Paris, Ann. soc. ent. **74** (178, 179).)

Tmetieus affinis Bl. = *Anglia hancockii* SMITH J. Quek. Microsc. Cl. ser. 2 **9** (319).—? *T. fortunatus* **sp. n.** Leeds CAMBRIDGE O.P. Proc. Dorset Nat. Hist. F. Cl. **27** (76, 85) pl. A ff 8-11.

(*Ulesanis maindroni* **sp. n.** Nilghiris SIMON Paris, Ann. soc. ent. **74** (177).)

Argiopidae.

Aranea; Bösenberg and Strand figure and describe several known Japanese species and the following new species;—

ejusmodi (229) pl. xi f. 215 *herbcoides* (227) pl. iv. f. 30, pl. xi f. 241 *dönitzella* (383) pl. iv f. 40, *komosanensis* (234) pl. xi f. 224, *dofleini* (235) *koratsensis* (384) pl. iv f. 25, *mangareoides* (228) pl. iv f. 21, pl. xi f. 213 *linyphiiformis* (237) pl. xv f. 421, *pseudocentrodes* (232) pl. xv f. 415, *sagana* (233) pl. xi f. 212, *subpullata* (234) pl. xi ff. 232, 233 *sagieola* (383) pl. iii f. 3, *sia* (237) pl. iv f. 24, *scyllioides* (217) pl. iv f. 26, pl. xi f. 209, *theridiformis* (236) pl. iv f. 3, pl. xv f. 500 **spp. n.** *adianta japonica* (219) pl. iv. f. 27 subsp. n. Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30**.—*A. confusonis*, (619), *braueri*, *danensis* (620) *submodesta*, *akakensis*, *albiaculeis* (621), *aballensis*, *ladschicola* (622), *darolicola*, *manicola* (623), *paraeymbifer* Abyssinia and Somaliland (624). *ursimorpha* E. Africa (683), *liberiae* Liberia (687), *bagamoyensis* German E. Africa (688), **spp. n.**, *submodesta neumanni* subsp. n. STRAND Zool. Anz., **30**.—*A. dumetorum islandicola* Iceland STRAND var. n. Wiesbaden, Jahrb. Ver. Natk., **59** (282).—*A. leimenstolli* (57), *nigmanni* (59) *pahli* (61) *eamerunensis* (62) **spp. n.** West Africa; STRAND Stuttgart, Jahreshefte Ver. Natk., **62**.—*A. odites* (308) *achine*, *pavidus* (309) **spp. n.** Himalayas SIMON Paris, Ann. soc. ent. **75**.—*A. similis* **sp. n.** Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus **20** (131).

Argiope minuta (194) pl. i f. 16, pl. xi ff. 218, 222 *brünnichii* (196) pl. iv f. 23 pl. xii ff. 297, 300 *aetherea* (198) pl. xii f. 296 *amoena* (199) pl. iv. f. 19, pl. xii f. 295 characters; *maja* **sp. n.** (201) Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.—*A. obscuripes* **sp. n.** Soudan, *brünnichii africana* subsp. n. Algiers STRAND Zool. Anz., **30** (618).—*A. peckuei preussi* subsp. n. West Africa STRAND Stuttgart, Jahreshefte Ver. Natk., **62**, (53).—*A. trifasciata deserticola* subsp. n. Egyptian Sudan SIMON Wien, SitzBer. Ak. Wiss. **115** (1162).

Cacrostris mimicus Somaliland (624), *albopubescens* German E. Africa (688), **spp. n.**, STRAND Zool. Anz., **30**.—*C. subsimata* **sp. n.** West Africa STRAND Stuttgart, Jahreshefte Ver. Natk., **62**, (64).

Caracladus pauperulus **sp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. berg Ges., **30**, (161) pl. xii f. 257.

Ceratinella subulata **sp. n.**, Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**, (158) pl. xii f. 269.

Cnephalacotes elegans Cambr. type of genus SMITH J. Quek. Microsc. Cl. ser. 2, **9** (313).

Cyclosa argenteo-alba (202) pl. iv f. 38, pl. xv f. 419 *atrata* (204) pl. iv f. 28, pl. xv f. 417 *laticauda* (209) pl. xv f. 414 *confusa* (209) pl. xv f. 418 *monticola* (210) pl. xv f. 413 *japonica* (211) **spp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.—*C. tubescens* **sp. n.** Himalayas SIMON Paris, Ann. Soc. ent. **75** (310).—*C. vallata* (203) pl. xv f. 411 *insulana* (205) pl. iv f. 22, pl. xi ff. 243–244 *sedeculata* (207) pl. xv f. 416 *octotuberculata* (208) pl. xv f. 412, characters BÖSENBERG and STRAND Abh. Senckenb. Ges. **30**.

Cyrtophora citricola Forsk. *abessinensis* var. n. Abyssinia STRAND Zool. Anz. **30** (618).

Diplocephalus bicurratus (160) pl. xii f. 272, *sagunus* (160) pl. xii f. 254, **spp. n.**, Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.—*D. castaneipes* in North Wales CAMBRIDGE O. P. Proc. Dorset Nat. Hist. F. Cl. **27** (91).—*D. coniceps* **sp. n.** Somaliland STRAND Zool. Anz., **30** (616).

Dyschiriognatha tenera, characters (174) pl. xv f. 432, *quadrinaculata* (175) pl. iii f. 9 **sp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges. **30**.

Entelecara erythropus Westr. type of genus SMITH J. Quek. Microsc. Cl. ser. 2, **9** (302).

Erigone arctica characters STRAND Fauna Arctica **4** (477).—*E. prominens* (168) pl. xii f. 270, *sagicola* (381) pl. iv f. 37, *hwa* (381) pl. x f. 183, *lila* (382) pl. x f. 181, **spp. n.** Japan, BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.

Erigonella groenlandica **sp. n.** Arctic, STRAND Arctic Araneae, "Fram" expedition (30).

Eusticothrix obscurus Bl. type of genus SMITH J. Quek. Microsc. Cl. ser. 2 **9** (314).

Gasteracantha doriae characters (265) *marsdeni* Sim. *punctisternis* var. n. (264) *kulezyskii* **sp. n.** Sumatra, (266) STRAND Wiesbaden, Jahrb. Ver. Natk., **59**.—*G. leucomelas* (239) pl. xv f. 426, *sagaënsis* (239) pl. iii f. 18, pl. xv f. 395, **spp. n.**

(N-9720 n)

Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.—*G. sanguinipes* **sp. n.**, Somaliland, STRAND Zool. Anz., **30** (625).

Gea nilotica **sp. n.** Egyptian Sudan SIMON Wien, SitzBer. Ak. Wiss. **115** (1162).

Hypselistes asiaticus **sp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**, (169) pl. xii f. 259.

Labulla contortipes characters BÖSENBERG and STRAND T.c. (170) pl. v f. 49, pl. xi ff. 234, 237.

Larinia aculeicanda **sp. n.** Egyptian Sudan SIMON Wien, SitzBer. Ak. Wiss. **115** (1164).—*L. argiopiformis, punctifera*, **spp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**, (212) pl. xv f. 423, pl. xi f. 203, pl. iv f. 32.

Leucange blanda characters (182) pl. iii f. 8, pl. xv f. 394 *subblanda* (184) pl. xv f. 406, *subgemmea* (185) pl. xv f. 398, pl. xvi f. 451, *subadulta* (186), **spp. n.** Japan BÖSENBERG and STRAND, T.c.—*L. profundi-foreata* **sp. n.** German E. Africa, STRAND, Zool. Anz., **30**, (683).—*L. rubrotrivittata, sexpustulata* **spp. n.** Himalayas SIMON Paris, Ann. Soc. ent. **75** (307).

Linyphia albolimbata, characters (171) pl. v f. 51 *yunohamensis* (173) pl. v ff. 43, 51, pl. xii f. 260, *sagana* (382) pl. iii f. 13, *limbatinella* (174) pl. xii f. 248, **spp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges. **30**.

Lophocarenum punctiseriatum, (159) pl. xii f. 274, *stylitum* (159) pl. x f. 196, **spp. n.** Japan BÖSENBERG and STRAND, T.c.

Mangora (?) *aethiopica* **sp. n.** Abyssinia STRAND Zool. Anz., **30** (618).

Meta doenitzi (180) pl. xi ff. 238, 239, *yunohamensis* (180) pl. xi ff. 225, 229, *kompirensis* (181) pl. xi f. 242, *rena* (382) pl. iii f. 6, **spp. n.**, Japan, BÖSENBERG and STRAND, Abh. Senckenb. Ges. **30**.

Metimorpha **gen. n.**, *tullia* **sp. n.** Japan BÖSENBERG and STRAND, T.c. (188–189) pl. xi f. 200.

Microneta mascula characters BÖSENBERG and STRAND T.c. (170) pl. xii f. 263. —*M. nicholsonii* **sp. n.** Kew Gardens CAMBRIDGE O.P. Kew Bulletin, Add. Ser. **5** (58).—*M. passiva* (77, 89) pl. A ff. 22–

26. *territa* (77, 88) pl. A ff. 19-21, *beata* (77, 90) pl. A ff. 27-31 **spp. n.** York-shire, Epping Forest CAMBRIDGE O. P. Proc. Dorset Nat. Hist. F. Cl. 27.

Monocephalus **gen. n.** for *Walckenaera fuscipes*, Bl. Britain and France SMITH J. Quek. Microsc. Cl. ser. 2, 9 (300):

Nemoscolus caudifer **sp. n.**, West Africa STRAND Stuttgart, Jahreshefte Ver. Natk., 62, (55).

Nephila clarata (190) pl. iii f. 11 pl. xi f. 217 *malabarensis* (192) pl. xi f. 216, 231, *chrysogaster* (193) pl. xi f. 208 characters BÖSENBERG and STRAND, Abh. Senckenb. Ges. 30.—*N. maculata* F. *norae guineae* var. n. New Guinea STRAND Wiesbaden, Jahrb. Ver. Natk. 59 (261).—*N. obnubila* **sp. n.** Himalayas SIMON Ann. soc. ent. 75 (308).—*N. senegalensis* Walck. *winahukensis* subsp. n. West Africa STRAND Stuttgart, Jahreshefte Ver. Natk., 62, (52).—*F. submaculata* **sp. n.** Cameroons, STRAND, Wiesbaden, Jahrb. Ver. Natk., 59 (30).

Oedothorax dentatus characters (165) pl. xii f. 273 *bipunctis* (162) pl. xii f. 258, *femineus* (163) pl. xii f. 255, *insecticeps* (163) pl. xii f. 256 *exsiccatus* (166) pl. xii f. 265 **spp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges. 30.

Ogulnius pullus **sp. n.** Japan BÖSENBERG and STRAND, T.c. (241), pl. xii f. 282.

Pachygnatha africana **sp. n.** Somaliland STRAND Zool. Anz., 30 (616).

Parameta defecta **sp. n.** Somaliland STRAND T.c. (617).

Paraplectana japonica **sp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges. 30 (242) pl. xv f. 124.

Pelecopsis elongatum Wid. type of genus SMITH J. Quek. Microsc. Cl. ser. 2 9 (315).

Poecilopachys bufo **sp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges. 30 (241) pl. iii f. 12, pl. xi f. 219.

Prasonica affinis, Algiers *olivacea* Somaliland **spp. n.** STRAND Zool. Anz., 30 (619).

Styloctetor broccha L. Koch type of genus, incorrectly recorded from Ireland SMITH J. Quek. Microsc. Cl. ser. 2, 9 (310).

Tetragnatha celebesiana Blackwall = *Epeira nigrotrivittata* Dolesch. and T.

celebesiana Thor. = *T. decorata* Blackwall. SIMON Paris, Ann. soc. ent. 75 (282). *T. cephalothoracis* (616), *lamperti* (617), **spp. n.**, Somaliland STRAND Zool. Anz., 30.—*T. squamata* (176) pl. iii f. 5, pl. xv f. 405 *praedonia* (177) pl. iii f. 7, pl. xv f. 401 characters *japonica* (177) pl. xv f. 409, *lea* (178) pl. xv f. 407, **spp. n.** *nigrita niceensis* subsp. n. (179) Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges. 30.

Theridiosoma epeirodes **sp. n.** Japan BÖSENBERG and STRAND, T.c. (243) pl. xii f. 291.

Tigellinus saxicolus Cambr. to *Trichoneus* SMITH J. Quek. Microsc. Cl. ser. 2, 9 (319).

Tylorida striata characters (187) pl. xv f. 420 *maguirenter* (187) pl. xv. f. 397, **sp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges. 30.

MIMETIDAE.

Ero japonica **sp. n.** Japan BÖSENBERG and STRAND, T.c. (245), pl. v. f. 56, pl. xii f. 252.

Melaenosia **gen. n.** *pustulifera* **sp. n.** India SIMON Paris, Ann. Soc. ent. 75 (285).

Mimetus indicus **sp. n.** Nilghiris, India SIMON T.c. (284).

THOMISIDAE.

Cupa **gen. n.** *typica* **sp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., 30, (265-266) pl. xvi. f. 454.

Diaca subadulta **sp. n.** Japan BÖSENBERG and STRAND, T.c. (258) pl. xiii f. 302.

Dieta chorion **sp. n.** Nilgiris, India SIMON Paris, Ann. Soc. ent. 75 (286).—*D. japonica* **sp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., 30, (246) pl. x f. 158.

Firmicus werneri **sp. n.** Egyptian Sudan SIMON Wien, SitzBer. Ak. Wiss. 115 (1165).

Gephyra pudica Himalayas *rescens* Ceylon **spp. n.** SIMON Paris, Ann. Soc. ent. 75 (311).

Heriacus difficilis **sp. n.** Algeria STRAND Zool. Anz., 30 (626).—*H. melloci* characters BÖSENBERG and STRAND Abh. Senckenb. Ges. 30 (257) pl. x

f. 163.—*H. pilosus* **sp. n.** Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. **20** (135).

Misumena braminica **sp. n.** India SIMON Paris, Ann. Soc. ent. **75** (288).—*M. triuspudata* (254) pl. x ff. 169, 170 *calycina* (255) pl. x f. 164 characters, *japonica* (256) pl. x f. 172, *munitissima* (384) pl. vii f. 90 *yunohamensis* (257) pl. x f. 179 **spp. n.**, Japan, BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.

Monaeses paradoxus albidus subsp. n. Egyptian Sudan SIMON Wien, SitzBer. Ak. Wiss. **115** (1165).

Oxyptila aculeipes, S. Tunis (626), *metschensis* German E. Africa (683), **spp. n.** STRAND Zool. Anz., **30**.—*O. decorata* characters (258) pl. x ff. 173, 177, 178 *truciiformis* (259) pl. x. f. 154 **sp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.

Oxytate castetsi **sp. n.** Himalayas SIMON Paris, Ann. soc. ent. **75** (310).—*O. setosa* characters BÖSENBERG and STRAND Abh. Senckenb. Ges. **30** (247) pl. vii f. 94, pl. x f. 175).

Philodromus problematicus, *quadri-vulva*, Somaliland (627), *maculato-rittatus* German E. Africa (684) **spp. n.** STRAND Zool. Anz., **30**.—*P. spinitarsis* (267) pl. vii f. 96, pl. x f. 157, *auricomus* (269) pl. x f. 171, *levipes* var. *tigrinus* (269) pl. xiii f. 316 characters; *nigro-striatipes*, *subaureolus* (270) pl. vii f. 94, pl. x f. 174, pl. xiii f. 307 **spp. n.** *aureolus japonicola* (268) pl. vii f. 93, pl. x f. 160 subsp. n. Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges. **30**.

Pistius undulatus (253) pl. xiii f. 308 *truncatus* (253) pl. x f. 168, pl. xiii f. 309 characters BÖSENBERG and STRAND T.c.

Runcinia albostrata **sp. n.** Japan BÖSENBERG and STRAND, T.c. (252) pl. x f. 162.—*R. depressa* **sp. n.** Mongalla, N, Uganda, SIMON Wien, SitzBer. Ak. Wiss. **115** (1166).—*R. (Machomenus) longipes* **sp. n.** Somaliland, STRAND Zool. Anz., **30** (625).

Synocma japonica characters BÖSENBERG and STRAND Abh. Senckenb. Ges. **30** (265) pl. x f. 165.

Thanatus pagensteckeri **sp. n.** German S.W. Africa STRAND Wiesbaden, Jahrb. Ver. Natk., **59** (33).—*T. paucipunctatus*, (N-9720 n)

multipunctatus **spp. n.** Somaliland STRAND Zool. Anz., **30** (628).

Thomisus labefactus Karsch (249) pl. x f. 167 *bimaculatus* var. n. (250) pl. xiii f. 303 *onustoides* (251) pl. x f. 166 **sp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.—*T. leucaspis* (289) *granulifrons* (290) *rigoratus* (291) **spp. n.** India; *calidius* Thor. = *javanus* Sim. (nec. Thor) description (291) SIMON Paris, Ann. soc. ent. **75**.

Tibellus compared with *Thanatus*, *ritilis* **sp. n.** India and Ceylon SIMON T.c. (293, 294).—*T. punctifasciatus*, Somaliland (628), *rosseleri* Algeria (629), **spp. n.** STRAND Zool. Anz., **30**.—*T. tenellus* characters BÖSENBERG and STRAND Abh. Senckenb. Ges. **30** (271) pl. viii f. 112, pl. x f. 156.

Tmarus solicinus, *fasciolatus* **spp. n.** Nilghiris SIMON Paris, Ann. soc. ent. **75** (287).

Nysticus asiaticus (132 pl. iv f. 12) *orientalis* (133 pl. iv f. 13) *montanus* (134 pl. iv f. 14) *spinifer* (134) **spp. n.** Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. **20**.—*X. ephippiatus* Sim. (261) pl. x ff. 159, 161 *lateralis* Hahn *atrimaculatus* subsp. n. (264) pl. xiii f. 306 *insulicola* (260) pl. xiii f. 304 *saganus* (261) pl. x f. 155 *tunicatus* (263) pl. x f. 176 *transversomaculatus* (263) pl. xiii f. 305 *ceptrariae* (385) pl. vii f. 92 **spp. n.** Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30**.—*X. subjugalis* **sp. n.** Somaliland STRAND Zool. Anz., **30** (626).

CLUBIONIDAE.

Agroeca praticola **sp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**, (291) pl. xvi f. 464.

Anahita fauna characters BÖSENBERG and STRAND T.c. (290) pl. vii f. 86 pl. xiii ff. 313, 314.

Anyphaena pugil characters BÖSENBERG and STRAND T.c. (289) pl. xiii f. 301.

Castaneira recurvata **sp. n.** Somaliland STRAND Zool. Anz., **30** (636).

Chiracanthium abyssinicum, *agnosticum*, *pallicolor* (633), *pauciaculeis*, (634), **spp. n.**, Somaliland STRAND Zool. Anz., **30**.—*C. camerunense* **sp. n.**

Cameroons STRAND Stuttgart, Jahreshefte Ver. Natk., **62**, (75). — *C. conflexum*, *trivittatum* **spp. n.** India SIMON Paris, Ann. soc. ent. **75** (297). — *C. lascivum*, characters (287) pl. xvi f. 502 *unicum* (287) pl. xvi f. 501, *japonicum* (288) pl. xvi f. 503, *digitivorum* (387) pl. vii f. 85, *cutittha* (289) pl. xvi f. 496, *kompircicola* (387) pl. vii f. 87 **spp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.

Clubiona acanthoememis, *nilgherina* **spp. n.** India SIMON Paris, Ann. soc. ent. **75** (298). — *C. jucunda* (279) pl. vii f. 88, pl. xvi f. 495, *rigil* (280) pl. vii f. 89, pl. xvi f. 499, *lutescens* (283) pl. xvi f. 485, characters; *japonicola* (281) pl. xvi f. 498, *sulla* (282) pl. xvi f. 486, *corrugata* (283) pl. xvi f. 482, *neglectoides* (284) pl. xvi f. 505, *lena* (285) pl. xvi f. 493, *mantis* (286) pl. xvi f. 492, *mutilata* (285) pl. xvi f. 491, *kurilensis* (286) pl. xiii f. 315, *zilla* (386) pl. vii f. 81, **spp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**. — *C. pogonias* **spp. n.** Himalayas SIMON Paris, Ann. soc. ent. **75** (312). — *C. subtrialis*, *abbajensis* **spp. n.** *maxima* subsp. n. Somaliland STRAND Zool. Anz., **30** (632).

Corinna longitarsis, S. Thomé Is., *olivacea*, (636), *mandibulata*, *sanguinea* **spp. n.** *inquirenda* var. n. Somaliland STRAND T.c. (637).

Ctenus clariventris Abyssinia, *nigrotriangulatus*, (634), *biprocessis* Somaliland (635), **spp. n.** STRAND T.c. — *C. eribensis* (77) Cameroons, *beerwaldi* (78) East Africa, *renirulvatus* (80) *anreopubescens* (82) *schneideri* (84) West Africa, **spp. n.** STRAND, Stuttgart, Jahreshefte Ver. Natk., **62**. — *C. scopulatus* characters (291), *dreyeri* **spp. n.** Cameroons (292) STRAND Wiesbaden, Jahrb. Ver. Natk., **59**. — *C. palembangensis* **spp. n.**, Sumatra STRAND T.c. (272).

Eusparassus chiracanthiformis, *fulvilypeus*, (630), *cornipalpis*, *nigrichelis*, *subadultus*, Somaliland and Abyssinia (631), *ubae* German E. Africa (684), **spp. n.**, *argelasius maximus* subsp. n. Algeria STRAND Zool. Anz., **30**. — *E. 5-dentatus* (71) *6-dentatus* (73) **spp. n.**, West-Africa STRAND Stuttgart, Jahreshefte Ver. Natk., **62**. — *E. sanguinifrons* **spp. n.** Himalayas SIMON Paris, Ann. soc. ent. **75** (312).

Heteropoda blaesei characters STRAND Wiesbaden, Jahrb. Ver. Natk. **59** (290).

— *H. malitiosa* **spp. n.** India SIMON Paris, Ann. soc. ent. **75** (294). — *H. panaretiformis* **spp. n.** Sumatra STRAND Wiesbaden, Jahrb. Ver. Natk., **59** (269). — *H. renatoria* (273) pl. vi f. 64, pl. xvi f. 453 *invieta* Koch = *peditata* Karsch (275) pl. xv f. 437, pl. xvi f. 448 *forcipata* (276) pl. xv f. 438 characters BÖSENBERG and STRAND Abh. Senckenb. Ges. **30**.

Micaria unifascigera (293) pl. xvi f. 497, *claripes* (388) pl. vi f. 68, **spp. n.**, Japan BÖSENBERG and STRAND T.c.

Nisueta affinis **spp. n.** Algeria STRAND Zool. Anz., **30** (630).

Orthobula crucifera **spp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**, (292) pl. vi f. 74 pl. xvi ff. 469, 473.

Oxyssoma delfini **spp. n.** Juan-Fernandez SIMON Paris, Bul. soc. ent., **1905** (71.)

Palystes rubrioculatus **spp. n.** Kilimanjaro STRAND Zool. Anz., **30** (689) — *P. modifiens* **spp. n.** South Africa STRAND Wiesbaden, Jahrb. Ver. Natk., **59** (37).

Panaretidius **gen. n.** *boutani* **spp. n.** Tonkin SIMON Paris Bul. soc. ent. **1906** (27).

Rhytimna wernerii **spp. n.** Egyptian Sudan SIMON Wien, SitzBer. Ak. Wiss. **115** (1167).

Sagella **gen. n.** *octomunita* **spp. n.** Japan, BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**, (279, 385), pl. vi f. 75.

Selenops bursarius characters BÖSENBERG and STRAND T.c. (272) pl. xvi f. 452. — *S. subradiatus* **spp. n.** Somaliland STRAND Zool. Anz., **30** (629). — *S. wernerii* **spp. n.** Egyptian Sudan SIMON Wien, SitzBer. Ak. Wiss. **115** (1167).

Simalio percomis, *castaneiceps* (299) India *luorum*, *phaeocephalus* (300) Ceylon **spp. n.** SIMON Paris, Ann. soc. ent. **75**.

Splingius caniceps, *bilineatus* **spp. n.** India SIMON T.c. (301).

Stasina japonica (278) pl. xiii f. 310 *maculifera* (386) pl. vi f. 77, **spp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.

Syrisea arabs **spp. n.** Egyptian Sudan SIMON Wien SitzBer. Ak. Wiss. **115** (1168). — *S. drassiformis* **spp. n.** Somaliland STRAND Zool. Anz., **30** (635).

Theleticopis maindroni **sp. n.** India
SIMON Paris, Ann. soc. ent. **75** (295).

Torania manni **sp. n.**, Lagos STRAND,
Stuttgart, Jahreshefte Ver. Natk., **62**,
(68).

Trachelas japonicus **sp. n.** Japan
BÖSENBERG and STRAND, Abh. Senckenb.
Ges., **30** (294) pl. xvi f. 504.—*T.*
quisquiliarum (302) *orcophila* (303)
fronto (304) **spp. n.** India and Ceylon
SIMON Paris, Ann. soc. ent. **75**.

Wulfilia ventralis **sp. n.** Bahamas,
BANKS New York, Bull. Amer. Mus. **22**
(186).

AGELENIDAE.

Agelena limbata Thor. (296) pl. viii
f. 104 pl. xvi f. 461 *opulenta* Koch (298)
pl. xvi f. 467 characters; *tubicola* (297)
pl. xvi f. 472, *ignota* (299) pl. xvi f. 466
spp. n. Japan BÖSENBERG and STRAND
Abh. Senckenb. Ges., **30**.—*A. maculino-*
notum **sp. n.** Somaliland STRAND Zool.
Anz., **30** (656).

Argyroneta aquatica structure of nest
UYTTENBOOGAART, Ber. Ned. Ent. Ver. **2**
(2-4).

Coelotes moellendorffi characters
BÖSENBERG and STRAND Abh. Senckenb.
Ges. **30** (303) pl. xvi ff. 463, 494.

Coras insidiosus, luctuosus characters
BÖSENBERG and STRAND T.c. (300) pl. xvi
ff. 458, 459.

Cybaeus mellottéi characters (295)
pl. xvi f. 457 *striatipes* (295) **sp. n.**,
Japan BÖSENBERG and STRAND, T.c.

Hahnia corticicola, martialis, **spp. n.**
Japan BÖSENBERG and STRAND, T.c. (305)
pl. vi f. 66, pl. xvi f. 477.—*H. maindroni*
sp. n. India SIMON Paris, Ann. soc. ent.
75 (305).

Malthonica psechrina **sp. n.** Himalayas
SIMON T.c. (313).

Tegenaria argaiea **sp. n.** Asia Minor
NOSEK Wien, Ann. Nat. Hist. Hofmus.
20 (136) pl. iv f. 15.—*T. corasides* (301)
pl. xvi f. 460, *muscicapa* (302) pl. xvi
f. 479, *T. curta* (303) pl. xvi f. 478, *T.*
dia (388) pl. vi f. 68 **spp. n.** Japan
BÖSENBERG and STRAND, Abh. Senckenb.
Ges., **30**.—*T. dalmatica* **sp. n.**
Dalmatia, KULCZYŃSKI Ann. Hist.-Nat.
Mus. Nat. Hung., **4**, (162).—*T. domestica*,
autotomy and regeneration of legs
FRIEDRICH, Arch. EntwMech., **20**, (469-
506) pl. xvii, xviii.

Textrix nigromarginata **sp. n.** Somali-
land STRAND Zool. Anz., **30** (655).

PISAURIDAE.

Caripeta japonica, **sp. n.**, Japan BÖSEN-
BERG and STRAND, Abh. Senckenb.
Ges., **30** (307) pl. xiii f. 343.

Dolomedes fimbriatoides (308) pl. xiii
f. 341, *raptor* (309) pl. viii f. 119
pl. xiii f. 342, *hercules* (310) pl. xiii
f. 361, *sagannus* (312) pl. viii f. 115,
japonicus (313) pl. xiii f. 312, *oviger*
(389) pl. viii f. 113, *pallitarsis*, (388)
pl. viii f. 114 **spp. n.**, Japan BÖSENBERG
and STRAND, Abh. Senckenb. Ges., **30**.
—*D. habilis* **sp. n.** South Australia,
HOGG London Proc. Zool. Soc. **1905**
(588) f. 89.—*D. lomensis* **sp. n.**, West-
Africa STRAND Stuttgart, Jahreshefte
Ver. Natk., **62**, (90).—*D. macrops* **sp. n.**
Mongalla, N. Uganda SIMON Wien, Sitz-
Ber. Ak. Wiss. **115** (1170).—*D. suma-*
tranus **sp. n.** Sumatra STRAND Wiesbaden,
Jahrb. Ver. Natk., **59** (275).

Phalea aculeata **sp. n.**, Cameroons
STRAND Stuttgart, Jahreshefte Ver. Natk.,
62, (86).

Pisaura lama (306) pl. xiii f. 340,
P. clarivittata, (389) pl. vi f. 76, **spp. n.**
Japan BÖSENBERG and STRAND, Abh.
Senckenb. Ges., **30**.

Tetragonophthalma brevipes **sp. n.**
German E. Africa STRAND Zool. Anz., **30**
(685).—*T. fascigera* **sp. n.** Japan BÖSEN-
BERG and STRAND, Abh. Senckenb. Ges.,
30 (306) pl. xiii f. 329.

Thalassius radiato-lineatus **sp. n.**
Somaliland STRAND Zool. Anz., **30** (671).

LYCOSIDAE.

Evipa africana, Somaliland (679),
brevipes Tunis (680), **spp. n.**, STRAND
Zool. Anz., **30**.

Evippella **gen. n.** *typica* **sp. n.** Algeria
STRAND T.c. (680).

Lycosa astrigera (322) pl. vii f. 98,
pl. xiii ff. 322, 327, *laura* (323) pl. viii
f. 111, pl. xiii f. 317, 333 characters;
t-insignata (324) pl. viii f. 109, pl. xiii
ff. 337, 344, *doenitzi* (325) pl. xiii f. 345
lyrivulva (326) *cinereofusca* (393) pl. vii
f. 99, *innominabilis* (392) pl. vii f. 100,
subtarentula (393) pl. vii f. 101, **spp. n.**,
Japan BÖSENBERG and STRAND, Abh.
Senckenb. Ges., **30**.—*L. aurantipes*,
novitatis, *sordide-colorata* (677), *darolii*,

proximella, *verticillifer* (678), *subproximella*, (679), **spp. n.**, Abyssinia and Somaliland STRAND Zool. Anz., **30**.—*L. cursor insignis* var. n. (138) *lineatipes* **sp. n.** (139) Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus., **20**.—*L. furra* Thor. characters STRAND Wiesbaden, Jahrb. Ver. Natk. **59** (295).—*L. tasmanica* (571 f. 80) Tasmania *phyllis* (573 f. 81) *molynouxi* (575 f. 82) *castanea* (577 f. 83) *errans* (579 f. 84) *bicolor* (580 f. 85) *gilberta* (582 f. 86) *stirlingae* (584 f. 87) *arenaris* (586 f. 88) **spp. n.** South Australia; HOGG London, Proc. Zool. Soc. **1905**.

Pardosa incerta (139) pl. v f. 17 *con-similis* (140) pl. v f. 18 *pentheri* (141) pl. v ff. 21, 24 *ilgünensis* (142) pl. v ff. 20, 22 **spp. n.** *proxima* C. L. Koch (140) pl. v f. 19 Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. **20**.

Pirata piraticus, habits TRANI, Napoli, Boll. Soc. nat., **19**, (128-131).

Tarentula depectinata (314) pl. vii f. 97, pl. xiii f. 332 *procurea* (315) pl. xiii f. 321 *clercki* (316) pl. viii f. 107, pl. xiii f. 320 *subpiratica* (317) pl. xiii f. 339 *piratoides* (318) pl. xiii f. 336 *pseudoan-nulata* (319) pl. viii f. 106, pl. xiii ff. 323, 326, 334, 338 *pia* (320) pl. xiii f. 324 *subamylacea* (322) pl. xiii f. 318 *phila* (389) pl. viii f. 105 *palus* (391) pl. vii f. 95 *sepia* (391) pl. viii f. 108 *minae* (392) pl. vii f. 102 **spp. n.** Japan; *japonica* Sim. (318) pl. viii ff. 103, 110, pl. xiii ff. 319, 335, 346 *colestis* Koch (321) pl. xiii f. 325 characters, BÖSENBERG and STRAND Abh. Senckenb. Ges. **30**.—*T. lamperti*, (92) *schweinfurthi* (96) **spp. n.** West Africa STRAND Stuttgart, Jahreshefte Ver. Natk., **62**.—*T. scopulitibiis*, Abyssinia and Somaliland, *interstitialis*, Oran, *manicula* (672), *atri-annulipes*, *hibernalis*, *illegalis* (673), *pardosella*, *picturella* (674) *aequiculata*, *mirabilis* Abyssinia and Somaliland, *rubicundi-colorata* Algeria, *trochosiformis* (675), *aballicola*, *parviguttata*, *septembris* (676) Abyssinia and Somaliland *mollicola*, (685) *subannulipes* (686), **spp. n.** *urbana* *molensis*, *gofensis* *subsp. n.* German E. Africa STRAND Zool. Anz. **30**.

Trabaea bidentigera **sp. n.** German E. Africa STRAND T.c. (686).

OXYOPIDAE.

Oxyopes africanus, *erlangeri* (657), *luteo-uculeatus* Somaliland *oranicola*

(658) Oran, *akakensis*, *inconspicuus*, *notivittatus* (659), *lineatifemur*, *pallide-coloratus* (660), *abebac*, *infidelis*, *variabilis* (661), *hostides*, (662), Abyssinia and Somaliland, *ubensis* (686), German E. Africa **spp. n.**, STRAND Zool. Anz., **30**.—*O. sertatus* characters (327) pl. viii f. 117 pl. xv f. 435 *saganus*, **sp. n.** (327) pl. xiii f. 331, Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.

Peuceetia lampei **sp. n.** German S.W. Africa STRAND Wiesbaden, Jahrb. Ver. Natk., **59** (42).—*P. rubrosignata* (656), *minima* (657), **spp. n.** Somaliland STRAND Zool. Anz., **30**.

SALTICIDAE.

Aelurillus (?) *dimorphus* **sp. n.**, Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**, (398) pl. ix ff. 125, 126.

Bianor pullus **sp. n.**, Japan BÖSENBERG and STRAND, T.c. (354) pl. xix f. 378.

Breda λ-signata **sp. n.**, Japan BÖSENBERG and STRAND, T.c. (345) pl. ix f. 136, pl. xiii f. 352.

Carrhotus detritus, **sp. n.**, Japan BÖSENBERG and STRAND, T.c. (358) pl. xiv ff. 385, 391.

Chira albiociput **sp. n.**, Japan BÖSENBERG and STRAND, T.c. (366) pl. xiii f. 311.

Cyllobelus tristellatus **sp. n.** Egyptian Sudan SIMON Wien, SitzBer. Ak. Wiss. **115** (1171).

Cyrrba bidentata **sp. n.** Somaliland STRAND Zool. Anz. **0** (662).

Dendryphantès rubrosquamulatus **sp. n.**, Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**, (397) pl. ix f. 130.

Epocilla xyliua **sp. n.** Himalayas SIMON Paris, Ann. Soc. ent. **75** (314).

Evarcha albifrons (359) pl. xiv f. 380 *albaria* (361) pl. ix f. 140, pl. xiii ff. 350, 351 characters, *longipalpis* (361) pl. xiv f. 384, **sp. n.**, Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.

Erophrys aninotatus (338) pl. ix f. 143, pl. xiv f. 367) *undulato-vittata* (339) pl. xiv f. 376 (?) *breviaculeis* (340) pl. xiv f. 387 *heliophaniformis* (393) pl. ix f. 141, **spp. n.**, Japan BÖSENBERG and STRAND, T.c.—*E. convergentis* **sp. n.** Tunis STRAND Zool. Anz., **30** (663).—*E.*

pulehella sp. n. Asia Minor NOSEK
Wien, Ann. Nat. Hist. Hofmus. **20**
(146).

Giniria gen. n., *unica* sp. n. Somali-
land STRAND Zool. Anz., **30** (666).

*Harmochirus brachiatu*s characters
BÖSENBERG and STRAND Abh. Senckenb.
Ges. **30** (373) pl. ix f. 147, pl. xiii
f. 356.

*Hasarius adanson*i (367) pl. ix f. 134
doenitzi (368) pl. xiii ff. 355, 362
characters, *crucifer* (399) pl. viii f. 122,
sp. n., Japan BÖSENBERG and STRAND,
T.c.

Heliophanus flavimaxillis sp. n.
Japan BÖSENBERG and STRAND, T.c. (334)
pl. ix f. 151.—*H. tessalensis* sp. n.
Abyssinia STRAND Zool. Anz., **30** (662).

Hyllus fusciventris, *thyeniformis*
(661) *erlangeri*, *rubrotinctus*, *ventrilin-*
eatus (665), *aethiopicus*, *fur*, *manensis*
(666), spp. n., Abyssinia and Somaliland
STRAND T.c. **30**.—*H. lamperti* (356)
pl. xiii f. 360, pl. xiv f. 369, *fischeri*
(358) pl. xiv f. 383 spp. n. Japan
BÖSENBERG and STRAND, Abh. Senckenb.
Ges., **30**.—*H. plexippoides* sp. n.
Egyptian Sudan SIMON Wien, SitzBer.
Ak. Wiss. **115** (1175).

Icidella gen. n., *interrogationis* sp. n.
Japan BÖSENBERG and STRAND, Abh.
Senckenb. Ges., **30**, (35) pl. ix f. 148,
pl. xiii f. 365.

Icius magister (353) pl. ix f. 133,
pl. xiii f. 353 *elongatus* (353) pl. viii
f. 124, pl. xiv f. 388 characters BÖSEN-
BERG and STRAND T.c.

Jotus linea, characters (337) pl. xiv
f. 375 *munitus* (334) pl. xiv ff. 374, 392,
abnormis (336) pl. xiv f. 377 *difficilis*
(336) pl. xiv f. 379, spp. n. Japan BÖSEN-
BERG and STRAND, T.c.

Laufeia aenea characters BÖSENBERG
and STRAND T.c. (370) pl. ix f. 137,
pl. xiii f. 364.

Marpissa ? *rittata* characters (346)
pl. viii f. 118, pl. xiv f. 368 *römeri* (346)
sp. n. Japan BÖSENBERG and STRAND T.c.

Menemerus pulla (348) pl. ix f. 150,
pl. xiii f. 150 *brachygnathus* (349)
pl. xiv ff. 381, 386 characters, *confusus*
(350) pl. ix f. 146, pl. xiv f. 370,
himeshimensis (395) pl. viii f. 116,
pl. xiv f. 390 spp. n. Japan BÖSENBERG
and STRAND T.c.

Mithion ocellatus Th. characters
STRAND Wiesbaden, Jahrb. Ver. Natk.
59, (297).

Modunda orientalis sp. n. Japan
BÖSENBERG and STRAND Abh. Senckenb.
Ges. **30** (396) pl. viii f. 123.

Myrmarachne japonica characters
(328) pl. ix f. 149, pl. xiv f. 372 *inner-*
melis (329) pl. ix f. 128, pl. xiv f.
382 sp. n. Japan BÖSENBERG and STRAND
T.c.

Pollenes aethiopicus, *mimicus*, spp. n.
Abyssinia STRAND Zool. Anz., **30** (663).

Phlaeus steudeli sp. n., West Africa
STRAND Stuttgart, Jahreshefte Ver. Natk.,
62, (98).

Phintella gen. n., *typica*, sp. n. Japan
BÖSENBERG and STRAND, Abh. Senckenb.
Ges., **30**, (333).

Phlegra desquamata, (663), *abessinica*,
(664), spp. n., *bresnicri meridionalis*
subsp. n. Somaliland STRAND Zool. Anz.,
30.

Plexippus paykulli (362) pl. ix ff. 142,
144, pl. xiii ff. 347, 354 *crassipes*, (363) pl.
ix f. 139, pl. xiii f. 366 *setipes* (364)
pl. ix f. 131 pl. xiii f. 363 characters
niccensis, (365), *ineognitus*, (399)
pl. viii f. 120 spp. n. Japan BÖSENBERG
and STRAND, Abh. Senckenb. Ges., **30**.

Pseudicius kulezyskii sp. n. Asia
Minor NOSEK Wien, Ann. Nat. Hist.
Hofmus. **20** (145) pl. v f. 26.

Rhene atrata characters BÖSEN-
BERG and STRAND Abh. Senckenb. Ges.
30 (355) pl. ix ff. 132, 145, pl. xiii f. 348.

Salticus marenzelleri sp. n. Asia Minor
NOSEK Wien, Ann. Nat. Hist. Hofmus.
20 (143) pl. v f. 25.

Siler cupreus characters BÖSENBERG
and STRAND Abh. Senckenb. Ges. **30**
(371) pl. xiv f. 389.

Silerella gen. n., *barbata*, sp. n.,
Japan BÖSENBERG and STRAND, T.c. (371)
pl. xiv f. 373.

Sitticus floricola orientalis (343)
subsp. n. *pallicolor* (341) pl. ix f. 152,
numeratus, *patellidens* (342) pl. ix ff. 135,
138, pl. xiii ff. 358, 359, *saganus* (394)
pl. ix f. 127 ? *saevus* (395) pl. viii f. 121
subadultus (395) pl. ix f. 129, spp. n.,
Japan BÖSENBERG and STRAND, T.c.

Stenaelurillus werneri sp. n. Mongalla,
N. Uganda SIMON SitzBer. Ak. Wiss.
115 (1174).

Synagelides **gen. n.**, *agoriformis* **sp. n.**, Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**, (330).

Telamonia bifurcilinea **sp. n.**, Japan BÖSENBERG and STRAND, T.c. (331) pl. ix f. 153, pl. xiii f. 357.

Theratoscirtus fusco-rufescens **sp. n.** Cameroons STRAND Stuttgart, Jahreshefte Ver. Natk., **62**, (100).

SOLIFUGAE.

Dacsia zederbaueri **sp. n.** Asia Minor WERNER Wien, Ann. Nat. Hist. Hofmus. **20** (114).

Eusimonia serrifera **sp. n.** Persia BIRULA St. Petersburg, Bull. Ac. Imp. Sci. **22** (280).

Galeodes key to Persian species (251) *karunensis* (254) *kermanensis* (260) *unicolor* (268) **spp. n.** Persia, *pococki* nom. n. for *nigripalpis* Poc. (256) *eyrus* Poc. (262) characters BIRULA T.c.—*G. caspius* Coast of Aral Sea BIRULA Taškent, Izv. Turk. Otd. Russ. Geogr. Obsč., **4**, (42–48) pl. v.—*G. bogojavlenskii* **sp. n.** Central Asia; BIRULA Zool. Anz., **30**, (25).

Gylippus, distribution in Russian Central-Asia, key to species BIRULA, Taškent, Izv. Turk. Otd. Russ. Geogr. Obsč., **4**, (42–48) pl. v.—*G. lamelliger* **sp. n.**, Central Asia BIRULA Zool. Anz. **30** (24) f. 1.—*G. monoceros* **sp. n.** Asia Minor WERNER Wien, Ann. Nat. Hist. Hofmus. **20** (113).—*G. pectinifer* **sp. n.** Buchara, Russia BIRULA, Taškent, Izv. Turk. Otd. Russ. Geogr. Obsč., **4**, (42–48) pl. v.—*G. quæstiunculus*, Karsch characters (283) *spinimanus* **sp. n.** Persia BIRULA St. Petersburg Bull. Ac. Imp. Sci. **22**.

Rhagodes key to Persian species (270) *melanochaetus* Heyn. characters (272) *zorab* (276) **sp. n.** Persia BIRULA St. Petersburg, Bull. Ac. Imp. Sci. **22**.

Rhax melanopyga defensive attitude FAUSSEK St. Petersburg, Zap. Russ. Geogr. Obsč., **27**, (146, 147) f. 54.

Rhinippus **gen. n.** *pentheri* **sp. n.** Asia Minor WERNER Wien Ann. Nat. Hist. Hofmus. **20** (113).

PSEUDOSCORPIONES.

Pseudoscorpiones of Sweden TULLGREN Entomol. Tidskr. Stockholm **27** (195–213).

Atemnus elongatus Bks Guatemala BERGER, Ohio Nat., **6**, (489–491) pl.

(*Blothrus peyerimhoffi* **sp. n.** caves of Basses-Alpes SIMON Paris, Bul. soc. ent. **1905** (282).)

Chelifer; characters (118–130) *nodosus* Schrank, structure of maxillae (29) pl. i f. 8a *mortensenii* (140) pl. ii ff. 9a–9c, pl. iii ff. 1a–1i Siam, *superbus* (147) pl. iii f. 3a Celebes, on Longicorn beetle, *modestus* (165) pl. iv ff. 1a–1d Nicobars, *galathea* (167) pl. iv ff. 2a–2c Nicobars, *concurvus* (173) pl. iv f. 3a Nicobars, *monitor* (180) pl. iv ff. 5a, 5b “Sunda Is.,” *nicobarensis* (182) pl. iv 6a, 6b Nicobars, *plebejus* (185) pl. iv ff. 7a, 7b Nicobars, Burma, *vermiformis* (188) pl. iv ff. 8a, 8b Nicobars, *navigator* (191) pl. iv f. 9a “India,” *indicus* (194) pl. iv ff. 10a–10d Madras, *rotundus* (196) pl. iv ff. 11a–11c Nicobars **spp. n.** *depressus* Koch (144) pl. ii f. 10a, pl. iii ff. 2a–2e “India,” *subruber* Sim. (155) pl. iii ff. 7a–7g Nicobars *murrayi* Poc. (159) pl. iii ff. 8a–8j Nicobars *cocophilus* Sim. (171) pl. iii ff. 9a, 9b Malay Peninsula, *birmanicus* Thor. (176) pl. iii f. 10a, pl. iv ff. 4a–4f Burma; WITH. Kjöbenhavn, Vid. Selsk. Skr. **7**.—*C. sjöstedti*, Tullg. description *thoméensis* var. n. S. Thomé Is. (245) *guineensis* nom. n. for *pallidus*, Balzan *feae* Cape Verde (246) *pusillus* S. Thomé Is. (248) *equestroides* W. Africa (250) **spp. n.** *cimicoides* Fab. *basiléensis* var. n. Fernando Po (251) *rubidus* (252) *angulatus* (256) *garypoides* (258) West Africa **spp. n.** ELLINGSEN Genova Ann. Mus. Civ. stor. nat. **42**.

Chernes cyrneus in Notts, England KEW Trans. Nott. Nat. Soc. **1905–1906** (41–46) pl. v.

Chernetidae; genital tracheal system OUDEMANS Zool. Anz. **30** (135–140).

Chernetes; Arctic species STRAND Fauna Arctica **4** (431–478).

Chthoniinae. characters (64–68) *Chthonius* structure of maxillae (25) pl. i ff. 1e–g, 2a *terribilis* **sp. n.** Siam (69) pl. i ff. 1a–1m *ulassici* Dad (73)

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Feacella gen. n. *Feacellidae* fam. n. *mirabilis* sp. n. Portuguese Guinea ELLINGSEN Genova, Ann. Mus. Civ. stor. nat. 42 (259, 260) pl. iv.

Garypidae characters (89-95) *Garypus* characters (101-103) *irrugatus* Sim. (28) pl. i ff. 6a-6d, (104) pl. ii ff. 1a-1d Siam, *elegans* nom. n. (107) pl. ii ff. 2a, 2b Malacca WITH, Kjöbenhavn Vid. Selsk. Skr. 7.

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Obisiinae; characters (75) *Obisium muscorum* Leach (26) pl. i ff. 3a, 3b structure of maxillae WITH T.c.

Olpium birmanicum sp. n. Burma WITH T.c. (109) pl. ii ff. 7a-7h.

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Phalangida habits, occurrence in Yorkshire FALCONER Naturalist, London 1906 (215-220) (388-390), pl. xix.

Orkney islands spp. CAMBRIDGE, O. P. Ann. Scot. Nat. Hist. Edinburgh 57 (55).—Swedish spp. TULLGREN Entomol. Tidskr. Stockholm 27 (195-218).—Arctic spp. STRAND Fauna Arctica 4 (431-478).

Dibunus gen. n., *pseudobiantes* sp. n. New Guinea; verwandt mit *Ibalonius* Ksch. und *Dino* Loman, eine vermittelnde Stellung zwischen den *Hinzuanidae* und den *Epedanidae* einnehmend, LOMAN, Nova Guinea, 5, (4-6).

Egaenus marenzelleri sp. n. Asia Minor NOSEK Wien Ann. Nat. Hist. Hofmus. 20 (152).

Erginus castaneus sp. n. Bahamas BANKS, New York, Bull. Amer. Mus. 22 (189).

Gibocellum sudeticum, Stecker, an imaginary animal SÖRENSEN, Kjöbenhavn, Vid. Selsk. Overs., 1906, No. 4, (197-232).

Ibalonius impudens sp. n. New-Guinea LOMAN, Nova Guinea, 5, (3).

Maraeandus albieps sp. n. New-Guinea LOMAN T.c. (7).

Marthana cornifer sp. n. Malay Peninsula LOMAN, Hamburg, Mitt. naturhist. mus. 23 (103).

Phalangium kulezyskii (148), *argaeicum* (149), *strandii* (150), spp. n., Asia Minor, NOSEK Wien Ann. Nat. Hist. Hofmus. 20.

ACARI.

New classification, new sub-classes, orders and sub-orders. OUDEMANS Ber. Ned. Ent. Ver. 2 (43-46).

Respiratory organs, mandibles OUDEMANS Ber. Ned. Ent. Ver. 2 (37-43); T.c. (47, 48); Zool. Anz. 29 (638, 639); T.c. (135-140); T.c. (633-637, 656).

Acari of New Guinea OUDEMANS Nova Guinea, 5 (101-162) plates i-iv.

Synopsis of Australian species RAINBOW Sydney N.S.W. Rec. Austr. Mus. 6 (145-193).

Acari in ants' nests, list of Bohemian species ROUBAL Prag, Sitzber. Böhm. Ges. Wiss. 1905 No. 15 (7, 8).

HYDRACHNIDAE.

Hydraehnid classification THON Arch. Natw. Ld. Durchf. Böhmen, Prag 12 pt. 2 (4-12); List of Belgian spp. ROUSSEAU Brussels, Mém. soc. entom. Belgique 12 (181-188); List of Scotch spp. WILLIAMSON Edinburgh, Trans. Nat. Soc. 5 (239-242); spp. in Bologoje Lake Russia SOLOVJEV, St. Peterburg, Ber. Süswasserst. Naturf. Ges., 2, (277-280).

Accreus spatulifer sp. n. Lake Nemi, Italy MARUCCI Roma, Boll. soc. zool. ital. ser. 2, 6 (285).

Amasis minimus sp. n., Java PIERSIG Zool. Jahrb., Syst., 23, (351-354) pl. xv ff. 37-39.

Arrhenurus larvae parasitic on dragon flies SOAR J. Quek. Microsc. Cl. ser. 2 9 (362).—*A. aculeatifrons* (356-360) pl. xiii ff. 9-12, pl. xviii ff. 64-69, *gibberifrons*

(372-375) pl. xix ff. 82-85 Java, *pseudo-affinis* (360-361) pl. xviii ff. 76, 77, pl. xix ff. 78-81, pl. xx ff. 91-97 *belaniensis* (364-366) pl. xx ff. 90-91 *bicorniculatus* (366-369) pl. xviii ff. 70-75, *palembangensis* (369-370) pl. xx ff. 99-103 *gracilipes* (370-372) pl. xx ff. 104-106 Sumatra **spp. n.** PIERSIG Zool. Jahrb. Syst. **23**.—*A. coronatus*, (772), *calycularis*, (773), **spp. n.**, Macedonia GEORGEVITCH Zool. Anz., **30**; Ghlas Srpska Ak. **71** No. 28 (123-151).—*A. curtus* **sp. n.** (37) *caudatus mantonensis* var. n. (94) Lincolnshire GEORGE Naturalist, London, **1906**.—*A. kraepelini* **sp. n.** Java KOENIKE Hamburg, Mitt. naturhist. mus. **23**, (132) pl. ii ff. 24-27.—*A. maggii* **sp. n.** Pavia MAGLIO, Zool. Anz., **30**, (412).—*A. octagonus* **sp. n.** (8), pl. ii f. 5, *leuckarti* Piers. (9) *neumani* Piers. (9) *stecki*, Koen. (9), Ireland HALBERT Ann. Mag. Nat. Hist. London, **18**.—*A. plenipalpis* Koen. Lake Nyasa HALBERT Proc. Zool. Soc. London, **1906** (535).—*A. rosulatus* **sp. n.** Turkestan DADAY Math. Termt. Ért. Budapest, **21** (355).

Atax affinis **sp. n.** Java PIERSIG Zool. Jahrb., Syst., **23**, (324-327) pl. xiii ff. 1-5.—*A. crassipes* parasitic in *Spongilla flurialis* SOAR J. Quek. Microsc. Cl. ser. 2, **9** (365)—*A. cumberlandensis* **sp. n.** Parramatta New S. Wales; RAINBOW Sydney N.S.W., Rec. Austr. Mus. **6** (160). *A. intermedius lavaronsensis*, var. n. LARGIOLLI, Rivista mensile di Pesca, Milano, **8**, (286-288).—*A. necessarius* (105) pl. i ff. 1-2 *puerulus* (108) pl. i ff. 3-5 **spp. n.** Java KOENIKE Hamburg, Mitt. naturhist. mus. **23**.—*A. pauciporus* (14) ff. 1, 2 *lynceus* (15) ff. 3-5 **spp. n.** German E. Africa KOENIKE Deutsch Ost-Afrika Hydrachniden.

(*Atractides paresii* **sp. n.** Ticino; MAGLIO Milano, Rend. Ist. lomb., ser. 2, **38** (152).)

Aturus asserculatus **sp. n.**, Switzerland WALTER Zool. Anz., **30**, (572).

Brachypodopsis coerulea **sp. n.** Bangkok PIERSIG Zool. Jahrb. Syst., **23**, (354-356) pl. xv ff. 34-36.

Curvipes discrepans Koen = *thoracifer* Piers. KOENIKE, Zool. Anz., **30**, (511-515).

Diplodontus despiciens O. F. Müller *monticolus* var. n. Java PIERSIG Zool. Jahrb., Syst., **23**, (379) pl. xiii ff. 13-15.—*D. tenuipes* **sp. n.** Java KOENIKE

Hamburg, Mitt. naturhist. mus. **23** (129) pl. ii f. 23.

Ecpolopsis **gen. n.** *multiscutata* **sp. n.** Siam PIERSIG Zool. Jahrb., Syst. **23** (330-333) pl. xv ff. 31-33.

Eucntridophorus spinifer, Koen. Lake Nyasa HALBERT Proc. Zool. Soc. London, **1906** (534).

Eulais, anatomy, bionomics, characters of Bohemian species THON Arch. Natw. LdDurchf. Böhmen, Prag **12** pt. 2. (30-84).—*E. caripontia*, *citellata*, (771), *bisacciata*, *dentata*, (772), **spp. n.**, Macedonia GEORGEVITCH Zool. Anz., **30**; Ghlas Srpska Ak. **71** No. 28 (123-151).—*E. elpatiewskyi* **sp. n.** Mongolia; DADAY Math. Termt. Ért., **24**, (66).—*E. maccullochi*, **sp. n.**, Parramatta, New S. Wales RAINBOW Rec. Austr. Mus., **6**, (160).—*E. marenzelleri* **sp. n.** Asia Minor THON Wien, Ann. Nat. Hist. Hofmus. **20** (158) pl. vi. f. 2, pl. vii ff. 1-5. —*E. pseudorimosa* **sp. n.**, Sumatra PIERSIG Zool. Jahrb. Syst. **23**, (380-382) pl. xvii ff. 62, 63.

Eupatra rotunda **sp. n.**, Sumatra PIERSIG T.c. (376-379) pl. xxi ff. 107-111.

Forelia parmata nom. n. for *F. cassidiformis* Haller KOENIKE, Zool. Anz., **30**, (513-514).

Frontipoda stuhlmanni **sp. n.** Victoria Nyanza KOENIKE Deutsch Ost-Afrika Hydrachniden (5) ff. 12-15.

Hydrachna parasitic on aquatic Coleoptera and Hemiptera SOAR J. Quek. Microsc. Cl. ser. 2 **9** (363).—*H. orientalis* **sp. n.** Asia Minor THON Wien, Ann. Nat. Hist. Hofmus. **20** (155) pl. vi f. 2, pl. vii ff. 6-9.—*H. semiscutata* (382-384) pl. xix ff. 87, 88, *volzi* (384-386) pl. xix f. 89 **spp. n.** Bangkok PIERSIG, Zool. Jahrb. Syst. **23**.

Hydrovolzia cancellata **sp. n.**, Switzerland WALTER Zool. Anz. **30** (575).

Hydryphantes parasite of *Caenia obscura* Mg. (Diptera) SOAR J. Quek. Microsc. Cl. ser. 2 **9** (364).—*H. koenikei* **sp. n.**, Pavia, MAGLIO, Zool. Anz. **30** (410).

Hygrobates calliger Piers. Ireland HALBERT Ann. Mag. Nat. Hist. London, **18**, (10).—*H. falcipalpis* **sp. n.** Java KOENIKE Hamburg, Mitt. naturhist. mus. **23** (122) pl. ii ff. 16, 17.—*H. octoporus* **sp. n.** Mongolia DADAY J. Math. Termt. Ért., **24**, (67).

Laminipes bullata Thor. (10). *scaurus*, Koen. (11). Ireland HALBERT Ann. Mag. Nat. Hist. London, **18**.

Lebertia (*Mixolebertia*) *helvetica* sp. n., Switzerland THOR Zool. Anz., **30**, (478-184).—*L. inaequalis* Koch, characters, THOR, T.c. (70-78).—*L. lineata* (69), *walteri* (68), spp. n. Switzerland THOR, op. cit. **31**.—(*L. pavesi* characters MONTI, Milano, Rend. Ist. lomb. ser. 2 **37** (240).)—*L. porosa* Thor, *obscura* Thor, *insignis* Neuman, characters THOR Zool. Anz. **29** (761-790) ff. 32-54.

Limnesia armata (7) ff. 10, 11 *campanulata* (9) spp. n. German E. Africa KOENIKE Deutsch Ost-Afrika Hydrachniden.—*L. gentilis* sp. n. Java KOENIKE Hamburg, Mitt. naturhist. mus. **23** (124) pl. ii ff. 18-22.—*L. jamurensis* Oudms. New Guinea OUDEMANS Nova Guinea **5** (136) pl. iv. ff. 88-93.—*L. lembangensis* (348-350) pl. xvii ff. 58-61 Java, *L. volzi* (345-347) pl. xvii ff. 52-57 Sumatra spp. n. PIERSIG Zool. Jahrb. Syst. **23**.

Limnochares aquaticus L. characters THON Arch. Natw. LdDurchf. Böhmen, Prag **12** pt. 2 (22-30).

Limnocharidae structure THON T.c. (13-84).

Mixolebertia subgen. n. (*Lebertia*) THOR, Zool. Anz., **29**, (770).

Momonis gen. n. (*Hygrobatidae*) *falcipalpis* sp. n., Ireland HALBERT Ann. Mag. Nat. Hist. London **18** (5) pl. ii, ff. 1-4.

Neumania ambigua (329, 330) pl. xv ff. 28-30, *N. volzi* (327-329) pl. xiv ff. 16-23 spp. n. Sumatra PIERSIG, Zool. Jahrb. Syst. **23**.—*N. megalommata* (111) pl. i ff. 6-9 *pilosa* (114) pl. i ff. 10-13 *falcipes* (119) pl. ii ff. 14, 15 spp. n. Java KOENIKE Hamburg Mitt. naturhist. mus. **23**.

Nitocra platypus sp. n. Siam, DADAY, Zool. Jahrb. Syst., **24**, (192) pl. 15 ff. 10, 14-26, pl. 16 ff. 1-5.

Paniscus michaeli Koen., Ireland HALBERT Ann. Mag. Nat. Hist. London **18** (11), pl. ii, f. 6.

Partnunia steinmanni, Zermatt, lata, Lugano, spp. n. WALTER Zool. Anz. **30** (570-571).

Pilolebertia, revision of genus THOR T.c. (271-275).

Piona belaniensis (338-340) pl. xvi ff. 44-46, *bipunctata* (335-338) pl. xiv ff. 24-27, *multipora* (334) pl. xvi

ff. 40-13 Sumatra, *paehyderma* (340-342) pl. xiii ff. 6-8 Bangkok, *pseudouncata* (342-344) pl. xvi ff. 47-51 Java spp. n. PIERSIG Zool. Jahrb. Syst. **23**.—*P. macedonica* sp. n., Macedonia GEORGEVITCH, Zool. Anz., **30** (774); Ghlas Srpska Ak. **71** No. 28 (146).—*P. stjordaliensis*, Thor. Ireland HALBERT Ann. Mag. Nat. Hist. London **18** (11).

Pionacereus, details of anatomy of female figured GEORGE Naturalist, London **1906** (37).

(*Polyxo* gen. n. *placophora* sp. n. Italy MONTI Milano, Rend. Ist. lomb. ser. 2, **38** (170, 2 plates).)

Pseudotorrenticola gen. n., *rhynchota* sp. n. Switzerland WALTER Zool. Anz. **30** (573).

Sperchon brevirostris Koen., *longirostris* Koen. Ireland HALBERT Ann. Mag. Nat. Hist. London **18** (10).—*S. insignis* sp. n., Switzerland WALTER Zool. Anz. **30** (574).

(*S. ticinense* sp. n. Ticino MAGLIO Milano, Rend. Ist. lomb. ser. 2, **38** (150).)

Tiphys mutatus, Piers. Ireland HALBERT Ann. Mag. Nat. Hist. London **18** (11).—*T. zschokkei* sp. n., Switzerland WALTER Zool. Anz., **30**, (322-326).

IXODIDAE.

Ixodidae anatomy BONNET Paris, C.-R. ass. franç. avanc. sci. **35** (126-127); Paris, C.-R. Acad. sci. **142** (296-298).—Anatomy, agency in transmitting diseases BUY Lyon, Ann. soc. **53** (93-155).—Anatomy and histology CHRISTOPHERS Sci. Mem. Med. Ind. Calcutta (new series) No. 23 1906 (1-53) with 6 pls.—Anatomy and bionomics WHEELER Cambridge, J. Agric. Sci. **1** (400-429), pls. v-x.

Amblyomma habits of South African species LOUNSBURY Rep. Brit. Ass. **1905** (282, 286-288).—*A. hirtum* Galapagos Is. (201) *sculpturatum* Brazil, Bolivia (203) *bispinosum* Venezuela (204) *pietum* Brazil (204) *incisum* Bolivia (206) *laticutatum* India (207) *prolongatum* Ceylon (208) spp. n. *caelebs* Neum. Bolivia (213), *geomydae* Cantor, Sumatra (214) NEUMANN Arch. parasit. **10**.—*A. seaevola* Oudms. New Guinea OUDEMANS Nova Guinea **5** (130) pl. iii ff. 51-58.

Aponomma hydrosauri Denny = *concolor* Neum. NEUMANN Arch. parasit. **10** (213).

Argas reflexus attacking pigeons NOËL, Naturaliste, Paris, sér. 2, **28**, (132-133).—*A. reflexus* Fab. *vespertilionis* Latr. *persicus* Fisch. structure WHEELER, Cambridge, J. Agric. Sci. **1** (407, 408, 428) pl. vi ff. 6-9 pl. x f. 39.—*A. transgariensis* White = *kochi* Neum. NEUMANN Arch. parasit. **10** (218).—*A. persicus* parasitic on birds LOUNSBURY Rep. Brit. Ass. **1905** (283, 284).—*A. lagenoplastis*, sp. n. New South Wales FROGGATT, Sydney, N.S.W., Proc. Linn. Soc., **31**, (408).

Boophilus habits of South African species LOUNSBURY, Rep. Brit. Ass. **1905** (291).—*B. annulatus* Say. internal anatomy ALLEN Tr. Amer. microsc. soc. **26** (245-280) pls. xxviii-xxxi; WILLIAMS Boston, Mass., Proc. Soc. Nat. Hist. **32** (313-334) pls. xviii-xxii; unusual host relations RANSOM Washington, D.C., Cir. U.S. Dept. Agric., Bur. Anim. Ind., No. **98**, (1-8).

Ceratiodes putus Cambr. structure WHEELER Cambridge J. Agric. Sci. **1** (415) pl. ix ff. 25, 26.

Dermacentor reticulatus Fab. structure WHEELER T.c. (422) pl. ix f. 28, pl. x ff. 33-35.—*D. atrosignatus* sp. n.? Australia NEUMANN Arch. parasit. **10** (210).

Eschatocephalus vespertilionis C. L. Koch structure WHEELER Cambridge J. Agric. Sci. **1** (417) pl. vii f. 15, pl. viii f. 19a.

Eurhipicephalus habits of South African species LOUNSBURY, Rep. Brit. Ass. **1905** (289-290).

Haemaphysalis leachi habits LOUNSBURY T.c. (288).—*H. punctata* Canest. and Fanz. structure WHEELER Cambridge J. Agric. Sci. **1** (421) pl. x ff. 30-32; anatomy of buccal apparatus NUTTALL, COOPER and SMEDLEY Rep. Brit. Ass. **1905** (439-441).—*H. spinulosa* sp. n. Uganda NEUMANN Arch. parasit. **10** (212).

Hyalomma aegyptium transmits parasites of Texas fever KOCH R. J. Trop. Med. London (76).—*H. aegyptium* var. *impressum* habits LOUNSBURY Rep. Brit. Ass. **1905** (288).—*H. hippopotamense*, synonymy NEUMANN Arch. parasit. **10** (216).—*H. syriacum* Koch structure WHEELER Cambridge J. Agric. Sci. **1** (419)

pl. vii 10-12; intermediary host of haematizoon in *Testudo ibera* POPOVICI-BAZANASU Paris, C.-R. soc. biol. **60** (173-174).

Ixodes, gland system NORDENSKIÖLD Zool. Anz., **30**, (484-485).—*I. bicornis* Mexico (196) *simplex* Shanghai, Gaboon (197) *ugandanus* Uganda (198) *percavatus* Tristan da Cunha (200) spp. n. NEUMANN Arch. parasit. Paris **10**.—*I. borealis* on puffins and petrels St. Kilda EVANS Ann. Scot. Nat. Hist. **1906** (85).—*I. pilosus* habits LOUNSBURY Rep. Brit. Ass. **1905** (285, 286).—*I. redurinus* anatomy and histology NORDENSKIÖLD Zool. Anz., **30**, (118-125); SUWOROW St. Petersburg, Trav. Soc. Nat. **37** Nos. 7, 8 (310-315, 366).—*I. ricinus* Latr. *hexagonus* Leach var. *longispinosus* Neum. *tenuirostris* Neum. structure WHEELER Cambridge J. Agric. Sci. **1** (411-415) pl. vi. ff. 4, 5, pl. vii ff. 11, 13, 14, pl. viii ff. 16-19, 20-22, pl. ix ff. 23, 24, pl. x ff. 36-38. —*I. ricinus* parasites of horses JUNACK Zs. Veterinärk., **15**, (258-259).

Ornithodoros habits of South African species LOUNSBURY Rep. Brit. Ass. **1905** (284).—*O. megnini* Dugés structure WHEELER, Cambridge J. Agric. Sci. **1** (409).—*O. moubata* transmits spirochaete of human tick fever CANTLIE J. Trop. Med. London, **9** (11-12); KOCH R. T.c. (43-45); ROSS T.c. (65-69); habits WELLMANN T.c. (215); NEWSTEAD, Proc. Ass. Econ. Biol. **1** (74-77).—*O. savignyi* Aud. anatomy CHRISTOPHERS Sci. mem. med. Ind., Calcutta **23** (23-45) plates i-v.

Rhipicephalus annulatus internal anatomy CHRISTOPHERS T.c. (45-55), pl. vi.—*R. australis*, *evertsi* transmitting agents of Texas fever and coast fever parasites KOCH R. J. Trop. Med. London **9** (75, 76).—*R. cuspidatus* sp. n. Senegal NEUMANN Arch. parasit. Paris **10** (209).—*R. tricusps* sp. n. Kalahari desert DÖNITZ Berlin, SitzBer. Ges. natf. Freunde, **1906** (146) ff. 7-9.

Spelaerhynchus praecursor Neum. Pernambuco, not from Africa NEUMANN Arch. parasit. **10** (220).

ACARI. (*Other families*).

Achorolophus trimaculatus Herm. *niger* var. n. Netherlands OUDEMANS Ber. Ned. Ent. Ver. **2** (18).

Aleurobius farinae L. *africana* var. n. Germany (?) OUDEMANS, Ber. Ned. Ent. Ver. **2** (43).—*A. fanis* sp. n. Netherlands OUDEMANS T.c. (20).

Allothrombidium fuliginum (17) *adustum* (17) *incarnatum* (18) spp. n. Netherlands OUDEMANS T.c.—*A. muscae* sp. n. Netherlands OUDEMANS T.c.

Amerus speciosus sp. n. Sikkim PEARCE J. R. Microsc. Soc. **1906** (272), pl. xiii f. 6.

Anoetus lorentzi Oudms. New Guinea OUDEMANS Nova Guinea **5** (146) pl. v ff. 116–118.

(*Anoetus lorentzi* sp. n. New Guinea OUDEMANS Ber. Ned. Ent. Ver., **23** (223).)

Antennophorus symbiosis with ants, characters of *uhlmanni*, *grandis*, *pubescens*, *foreli* KARAVAJEV Kiev. Zap. Obšč. Jest. **20** (209–230).

Archaeonothrus gen. n. (870), *natalensis* sp. n. (871) Natal TRÄGÅRDH, Zool. Anz. **30**.

Carpoglyphus alienus sp. n. in human urine, Java HAAN Centralbl. Bakt., Abt. I, **40**, (694).—*C. passularum* characters BANKS Washington, Tech. Ser., U. S. Dept. Agric. Div. Ent. **13** (25) pl. v f. 40.

Celaenopsis weberi Oudms. New Guinea OUDEMANS Nova Guinea **5** (121) pl. ii ff. 12–23.

Cepheus heimi sp. n. on fungus, France HEIM and OUDEMANS Paris, Bul. Soc. ent., **1903**, (312).—*C. lamellatus* sp. n. Massachusetts BANKS Philadelphia Proc. Acad. Nat. Sci. **58** (497) pl. xv f. 14.

Chauliaca piseicauda sp. n. on *Cypselus*, SPEISER Königsberg, Schr. physik. Ges., **47**, (77).

Chaunoproctus gen. n. (Oribatidae) *cancellatus*, *asperulus* spp. n. Sikkim PEARCE, J. R. Microsc. Soc. **1906** (271) pl. xiii ff. 3, 4.

Cheiletus eruditus in fodder LUCKS Landw. Versuchstat. Berlin **64** (477–480).

Cheletinae revision of genera and species OUDEMANS Paris Mém. soc. zool. **19** (36–144).

Cillibaena (Uropoda) aquatica sp. n., Sumatra PERSIG, Zool. Jahrb. Syst. **23** (386–388) pl. xxi ff. 112–118.

Dermanyssus arium, parasite of birds KLEE, Fühlings landw. Ztg, **55**, (98–103).—*D. gallinae* an intermediate host of a haemogregarine of the jerboa BALFOUR Second Report of the Wellcome Research Laboratories at the Gordon Memorial College Khartoum (108).

Dermoglyphus arami description OUDEMANS Tijdschr. Ent. **49** (264) pl. xii ff. 44, 45.

Epicrius mollis (265) f. 1. *geometricus* (265) f. 2 *canistrinii* (266) f. 3 in Lincolnshire GEORGE Naturalist, London **1906**.

Eremaeus into 5 Genera *Liacarus*, *Xenillus*, *Eremaeus*, *Licbstadia* gen. n. and *Oribatula* OUDEMANS Ber. Ned. Ent. Ver., **2**, (100).—*Eremaeus* type *hepaticus* KOCH OUDEMANS T.c. (100).

Ereunetes lapidarius sp. n. Netherlands OUDEMANS T.c. (40).

Eriophyes different species infesting identical trees COLLINGE Proc. Ass. Econ. Biol. **1** pt. i (10, 11).—*E. hibisci* sp. n. Fiji Is. NALEPA J. econ. Biol. **1** (147–150) pl. x.—*E. passerinae* attacking leaves of *Giardia hirsuta* GERBER Paris, C.R. Acad. sci. **143** (844, 845).

Erythraeus debeauforti description OUDEMANS Nova Guinea **5** (134) pl. iv ff. 79–87.

Euiphis siculus sp. n. on *Scarabaeus semi-punctatus*, Sicily OUDEMANS, Ber. Ned. Ent. Ver. **2** (7).

Eupodes viridis sp. n. Netherlands OUDEMANS, T.c. (40).

(*Fallopia* gen. n. type *Rhyncholophus poriferus* OUDEMANS Ber. Ned. Ent. Ver. **23** (222).)

(*Gabucinia* gen. n. type *Pterolichus delibatus* OUDEMANS Ber. Ned. Ent. Ver. **23** (224).)

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Gamasus characters, affinities, phylogeny, list of species BERLESE Redia, **3** (68–304) plates ii–xix.—*G. (Trachy-*

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Hafenrefferia gen. n. type *Oribates gilripes* C. L. Koch, OUDEMANS, Ber. Ned. Ent. Ver., 2, (62).

Halarachne sp. in nasal cavities of Weddell's seal BLANCHARD Arch. parasit. 10 (313).

Hericia robini, Can. in Germany LUDWIG, Zs. Pflanzenkrankh., 16, (137-139).

Histiogaster entomophagus spermaticus Trt. = *spermaticus* Trt. description TROUESSART Arch. parasit. 10 (314, 315).—*Histiostoma gracilipes* (10) pl. i ff. 9, 12 *brevipes* (11) pl. i ff. 10, 11 *americanum* (11) pl. i ff. 6, 7 spp. n. United States BANKS, Washington, Tech. Ser. U. S. Dept. Agric. Div. Ent. 13.

Holothyrus histology of repugnatorial glands THOX Prag, SitzBer. Böhm. Ges. Wiss. 1905 No. 10 (1-41) plates i, ii.—*H. coccinella* (713) *longipes* (714) pl. xxix f. 16 characters, *braueri* (681) pl. xxviii, xxix ff. 11-15 *seychellensis* (718) pl. xxix f. 18, 19 *niger* (716) pl. xxix f. 17 spp. n. Seychelles THOX Zool. Jahrb. Syst. 23.

Hoplodermis clariger sp. n. Sikkim PEARCE, J. R. Microsc. Soc. 1906 (273).

Horstia gen. n. type *Trichotarsus ornatus* Oudms.; to same genus *helenae* Oudms., *manicati* Giard, *trifilis* Can.; OUDEMANS Ber. Ned. Ent. Ver. 2 (21).

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Laelaps (Laelaspis) zuluensis sp. n., Zululand TRÄGÅRDH Zool. Anz. 30 (873).

Leptus autumnalis, transmits the Kedani disease of Japan TANAKA Centralbl. Bakt. 42 (16-18, 104-108, 235-240, 329-334); in dogs ROTH, Wochenschr. Tierheilk., 50, (341-345, 361-365, 381-384).

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Attems, K. G. Ergebnisse einer naturwissenschaftlichen Reise zum Erdschas-Dagh (Kleinasien). I. Zoologischer Teil. Myriopoden. Wien, Ann. Nat. Hist. Hofmus., **20**, 1905, (163-167), pl. viii.

Brölemann, H. W. 1. Myriapodes de la mission du chemin de fer Thiès-Kayes, recueillis par le Dr. Conan. Paris, Mém. soc. zool., **18**, 1905, (201-213) pl. iv, v.

Brölemann, H. W. 2. Miriápodos de Guatemala recibidos de Don Juan J. Rodriguez. An. Mus., San Salvador, **3**, 1906, (4-12, 75-80).

(**Brölemann.** 3. Myriapodes recueillis en Indo-Chine par M. A. Pavie. Mission Pavie, **3**, 1904, (296-308).)

(**Brölemann, H. W.** 4. Myriapodes de Guatemala. Paris, Bul. soc. zool., **29**, 1904, (188-191).)

(**Brölemann, H. W.** 5. Le genre *Acanthinulus*. Paris, Ann. soc. ent., **72**, 1903, [1905], (469-477).)

(**Brölemann, H. W.** 6. Matériaux pour servir à une faune des myriapodes de France. Feuille jeunes natural., Paris, sér. 4, **35**, 1905, (93-98).)

(**Brölemann, H. W.** 7. Myriapodes de Costa Rica recueillis par le professeur Biolley. Paris, Ann. soc. ent., **74**, 1905, (337-380, pl.).)

Brues, C. T. *vide* Melander, A. L.

Bruntz, L. 1. L'organe phagocytaire des Polydesmes. Paris, C.-R. soc. biol., **61**, 1906, (252-253): et Réunion biologique de Nancy, **1906**, (52-53).

Bruntz, L. 2. La phagocytose chez les Diplopodes (globules sanguins et organes phagocytaires). Arch. zool., Paris, ser. 5, **5**, 1906, (491-501).

Carl, J. 1. Sur la présence des Pauropodes en Suisse. Arch. Sci. Phys., Genève, **22**, 1906, (407).

Carl, J. 2. Diplopoden aus dem Malayischen Archipel. (Reise von Dr. Walter Volz.) Zool. Jahrb., Jena, Abth. Syst., **24**, 1906, (227-246), pl. xvii.

(**Carlson, A. J.** Contributions to the physiology of the ventral nerve-cord of Myriapoda (centipedes and millipedes). J. Exp. Zool., Baltimore, Md., **1**, 1904, (269-287).)

Carr, J. W. *Myriapoda*, [in] The Victoria history of the county of Nottingham, **1**, 1906, (131, 132).

Chalande, J. 1. Recherches sur les Myriopodes du sud-ouest de la France. Toulouse, Bul. Soc. Sci. nat., **38**, 1905, (46-79), pl., et **39**, 1905, (79-154).

(Chalande, J. 2. Myriapodes de France. Toulouse, Bul. soc. hist. nat., **36**, 1903, (65-69).)

(Chalande, J. 3. Cas d'hermaphroditisme chez un myriopode. Toulouse, Bul. soc. hist. nat., **36**, 1903, (91-92) a. fig.)

(Chalande, J. 4. Contribution à la faune des Myriapodes de France. Feuille jeunes natural., Paris, sér. 4, **35**, 1905, (61, 70-72).)

Chamberlin, R. V. A new *Lithobius* from Colorado. Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, 1906, (3-4).

Duboscq, O. *vide* Léger, L.

Evans, W. Some *Invertebrata*, including *Ixodes borealis*, from St. Kilda. Ann. Scot. Nat. Hist., Edinburgh, **1906**, No. 58, (87).

Hennings, C. 1. Die systematische Stellung und Einteilung der Myriopoden. Anschauungen und Erfahrungen 1758-1905. Zool. Ann., Würzburg, **2**, 1906, (47-70).

Hennings, C. 2. Das Tömösvarysche Organ der Myriopoden. II. Zs. wiss. Zool., Leipzig, **80**, 1906, (576-641), pls. xxxi and xxxii.

Hennings, C. 3. Neuere Myriopoden-Arbeiten. (Zusammenfassende Uebersicht.) Zool. Centralbl., Leipzig, **13**, 1906, (1-31).

Léger, L. et Duboscq, O. L'évolution des *Eccrina* des *Glomeris*. Paris, C.-R. Acad. sci., **142**, 1906, (590-592).

([Lignau, N]. Лигнау, Н. Г. Многоножки Крыма (предварительное сообщение). [Die Myriapoden der Krim. Vorl. Mitth.] Odessa, Mém. Soc. nat., **28**, 1905, (197-199).)

Lucas, R. Myriopoda. [Jahresbericht 1901.] Arch. Natg., Berlin, **68**, Bd 2, H. 2, 2. Hälfte, 1902, [1906], (1357-1415), = D. ent. Zs., Berlin, **1902**, H. 3, 2. Hälfte, [1906], (1357-1415).

(Medes, Grace. The spermatogenesis of *Scutigera foreeps*. Biol. Bull., Woods Holl., Mass., **9**, 1905, (156-158), with pl.)

Melander, A. L. and Brues, C. T. The chemical nature of some insect secretions. Milwaukee, Bull. Wis. Nat. Hist. Soc., N. Ser., **4**, 1906, (22-36).

Muralewitsch, W. Myriapoden, gesammelt von der Expedition nach der Halbinsel Kanin im Jahre 1902. Zool. Anz., Leipzig, **30**, 1906, (66-69).

Peyerimhoff, P. de. Recherches sur la faune cavernicole des Basses-Alpes. Paris, Ann. soc. ent., **75**, 1906, (203-222).

Poche, F. Über das Habitat von *Sphendononema camerunense* Verh. Zool. Anz., Leipzig, **30**, 1906, (567-568).

Pocock, R. I. 1. *Myriopoda*; [in] The Victoria history of the county of—Hampshire and Isle of Wight **1** 1900 (163-165),—Cumberland **1** 1901 (142, 143),—Norfolk **1** 1901 (171, 172),—Surrey **1** 1902 (176-178),—Somerset **1** 1906 (121-123).

Pocock, R. I. 2. The Wild Fauna and Flora of the Royal Botanic Gardens, Kew.—*Antennata*. Kew Bull., Add. Ser. **5**, 1906, (21, 22).

Pocock, R. I. 3. *Chilopoda* and *Diplopoda*, [in] The Fauna and Geography of the Maldives and Laccadive Archipelagoes, edited by J. Stanley Gardiner. 4to. Cambridge, **2**, Suppl. **2**, 1906 (1041-1045).

Ribaut, 1. Notes myriopodologiques. Toulouse, Bul. soc. hist. nat., **37**, 1904, (48-52).

(Ribaut, H. 2. Description de quatre nouvelles espèces françaises du genre *Julus* (Myriopodes). Toulouse, Bul. soc. hist. nat., **37**, 1904, (15-27).)

Schmitt, J. Monographie de l'île d'Anticosti (Golfe Saint-Laurent). Paris, 1904, (i-vi + 1-367).

Sjöstedt, Y. Übersicht der Ergebnisse einer zoologischen Reise in Kamerun West-Afrika, 1890-1892. Stockholm, 1905, (1-102).

Verhoeff, K. W. 1. Vergleichend-morphologische Studie über die coxopleuralen Körperteile der Chilopoden, mit besonderer Berücksichtigung der *Scolopendromorpha*, ein Beitrag zur Anatomie und Systematik derselben, nebst physiologischen und phylogenetischen Mitteilungen und Ausblicken auf die Insekten. Halle, Nova Acta Leop., **86**, 1906, (349-501).

Verhoeff, K. W. 2. Ueber Diplopoden. 5. (25.) Aufsatz. Zur Kenntnis der Gattung *Gerraisia* (*Opisthandria*).

Zool. Anz., Leipzig, **30**, 1906, (790-822).

Verhoeff, K. W. **3.** Ueber Diplopoden. **4.** (24.) Aufsatz: Zur Kenntnis der Glomeriden (zugleich Vorläufer einer *Glomeris*-Monographie). (Beiträge zur Systematik, Geographie, Entwicklung, vergleichenden Morphologie und Biologie.) Arch. Natg., Berlin, **72**, Bd 1, 1906, (107-226), mit 2 Taf.

Verhoeff, C[arl]. **4.** Gliederfüssler: Arthropoda. [Forts.] H. G. Bronn's Klassen u. Ordnungen des Tier-Reichs, Bd 5. Abt. 2, Lfg 75-77. Leipzig (C. F. Winter), 1906, (175-215) Taf.

Williams, S. R. The young of *Scutigerebella immaculata*. Science, New York, N.Y. **23**, 1906, (527).

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Ballophilus maldicensis sp. n. Maldives Pocock Fauna Maldive 2 (1042).

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(*Lithobius vulcani costaricensis* var. n. Costa Rica **BRÖLEMANN** Paris, Ann. soc. ent. 74 (339))

Scutigera *immaculata* young stages, **WILLIAMS** Science, New York, N.Y. 23 (527).

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Julus londinensis finitimus var. n., **RIBAUT**, Bul. soc. hist. nat., 37, (48-52) av. fig.

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Spirobolus marginatus Say, experiments on secretions MELANDER and BRUES Milwaukee, Bull. Wis. Nat. Hist. Soc. **4** (26-28).

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(**Bouvier, E. L. 2.** Les œufs des Onychophores. Nouv. Arch. Museum, Paris, sér. 4, **6**, 1904, (1-50), av. fig.)

(**Bouvier, E. L. 3.** Sur les organes génitaux mâles du *Peripatus tholloni* Bouv. Paris, Bul. soc. ent., **1904**, (192-193).)

Bruntz, L. Excrétion et phagocytose chez les Onychophores. Nancy, Bul. soc. sci., sér. 3, **4**, 1903, (125-127).]

Dendy, A. Note on the supposed type specimen of *Peripatus leuckarti* Saenger, and on the nomenclature of the Australian Onychophora. Zool. Anz., Leipzig, **30**, 1906, (175-177).

Handlirsch, A. Über Phylogenie der Arthropoden. Wien. Verh. Zool.-bot. Ges., **1906**, (88-103).

Lucas, R. Prototracheata. [Jahresbericht 1901.] Arch. Natg., Berlin, **68**, Bd 2, H. 2, 2. Hälfte, 1902 [1906], (1579-1584), = D. ent. Zs., Berlin, **1902**, H. 3, 2. Hälfte, [1906], (1579-1584).

Philippschenko, J. Ueber die Abstammung des Fettkörpers und der Nephrocyten bei den Arthropoden. St. Petersburg, Trav. Soc. nat. (C.-R.), **37**, No. 5 & 6, 1906, 270-272).

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1.—TITLES.

N.B.—Titles in brackets have appeared previously in the Zoological Record, but not in the Zoology Vol. of the Internat. Cat. Sci. Lit.

Abeille de Perrin, E. 1. Description de trois *Miarus* français. Paris, Bul. soc. ent., **1906**, (171-172). [*Coleoptera*.]

(Abeille de Perrin, A. 2. Description de deux espèces de *Trechus* aveugles européens. Paris, Bul. soc. ent., **1903**, (298-299). [4831 4827 df dg].)

(Abeille de Perrin, E. 3. Description de deux espèces de Coléoptères d'Algérie. Paris, Bul. soc. ent., **1903**, (334-335). [4831 4827 fa].)

(Abeille de Perrin, E. 4. Description de deux nouveaux *Trechus* (*Anophthalmus*) de France. Paris, Bul. soc. ent., **1904**, (198-199). [4831 4827 df].)

(Abeille de Perrin, E. 5. Description d'un Coléoptère hypogé français. Paris, Bul. soc. ent., **1904**, (226-228). [4831 4827 df].)

(Abeille de Perrin, E. 6. Description de deux *Bathyscia* inédites des Basses-Pyrénées. Paris, Bul. soc. ent., **1904**, (242-243). [4831 4827 df].)

(Abeille de Perrin, E. 7. Diagnoses de trois Coléoptères français nouveaux. Paris, Bul. soc. ent., **1904**, (280-282). [4831 4827 df].)

(Abeille de Perrin, E. 8. Description d'un *Trechus* (*Anophthalmus*) nouveau de France. Paris, Bul. soc. ent., **1905**, (19-20). [4831 4827 df].)

(Abeille de Perrin, E. 9. Description de trois Buprestides nouveaux. Paris, Bul. soc. ent., **1905**, (207-208). [4831].)

(Abeille de Perrin, E. 10. Description d'un nouveau coléoptère aveugle de France. Paris, Bul. soc. ent., **1905**, (208-209). [4831 4827 df].)

(Abeille de Perrin, E. 11. Notes biologiques sur *Sieltitia balsetensis*. Paris, Bul. soc. ent., **1905**, (225-227). [4831 4819].)

(Abeille de Perrin, E. 12. Description d'un *Bythinus* nouveau de France. Paris, Bul. soc. ent., **1905**, (42-43). [4831 4827 df].)

Abot. Note sur le *Nabis boops* Schicæde. Angers, Bul. soc. étud. sci., **35**, 1906, (163-164). [*Hemiptera*].

[Adams, C. F.] *Diptera africana* I. Lawrence, Kan. Univ. Sci. Bull., **3**, 1905, (147-208).]

[Adelung, N. N.] 1. Аделунгъ, Н. Н. Къ распространенію прямокрылыхъ насекомыхъ въ предѣлахъ Россійской Имперіи I. [Symbola ad cognitionem faunae Orthopterorum Rossiae. I.] St. Peterburg, Ann. Mus. zool. Ac. Sc., **10**, 1905, [1906], (i-v).

[Adelung, N. N.] 2. Аделунгъ, Н. Н. Прямокрызья насекомыхъ, собранныя П. П. Сущкинымъ въ Тургайской области, лѣтомъ 1898 г. [Insecta Orthoptera, a dom. P. Sushkin in regione Turgaica (Siberia occidentali-meridionali) anno 1898 lecta.] Mater. faun. flor. Russ., Moskva, Zool., **7**, 1906, (82-92).

[Adelung, N. N.] 3. Аделунгъ, Н. Н. Къ познанію фауны прямокрылыхъ Тобольской губ. [Prodromus Orthopterorum gub. Tobolsk.] Tobol'sk, Ježeg. muz., **15**, 1905, [1906], (1-18).

Adkin, Robert. 1. On the recent abundance of *Pyrameis cardui*, *Plusia*

gamma and *Nomophila noctuella*. Entomologist, London, **39**, 1906, (173, 174). [*Lepidoptera*.]

Adkin, R. 2. Notes on rearing *Tortrix pronubana*, Hub. Entomologist, London, **39**, 1906, (265). [*Lepidoptera*.]

Adkin, R. 3. Some thoughts on the probability of the abundance of certain species of *Lepidoptera* in 1906 being due to immigration, and its possible effect on our insect fauna. London, Proc. S. Lond. Ent. Nat. Hist. Soc., **1906**, (33-37).

Adlerz, Gottfrid. 1. Lefnadsförhållanden och instinkter inom Familjerna *Pompilidae* och *Sphegidae*. II. [Conditions of existence and instincts of the *Pompilidae* and *Sphegidae*.] Stockholm, Vet. Ak. Handl., **42**, No. 1, 1906, (1-48). [*Hymenoptera*.]

Adlerz, G. 2. *Methoca ichneumonides* Latr., dess lefnadsätt och utvecklingsstadier. [Methoca ichneumonides Latr., its life habits and stages of development.] [Summary in German (46, 47).] Ark. Zool., Stockholm, **3**, No. 4, 1906, (1-48, pl. i). [*Hymenoptera*.]

Adlerz, G. 3. Den parasitiska metoden hos *Chrysis viridula* L. [Parasitic methods of *Chrysis viridula* L.] Ark. Zool., Stockholm, **3**, No. 8, (1-9). [*Hymenoptera*.]

Aigner-Abafi, L[ajos]. 1. Schmetterlings-Aberrationen aus der Sammlung des Ungarischen National-Museums. Ann. Hist.-Nat. Mus. Nat. Hung., Budapest, **7**, 1906, (484-531, Taf. xiii-xiv u. 23 Textfig.). [*Lepidoptera*.]

Aigner-Abafi, L. 2. Magyarország pillangói. [Die Tagfalter Ungarns.] Rovart. L., Budapest, **13**, 1906, (6-9, 53-58, 80-84, 108-111, 127-133, 144-151, 162-167, 179-185, 204-208). [*Lepidoptera*.]

Aigner-Abafi, L. 3. *Satyrus Briseis* L. (Ungarisch) Rovart. L., Budapest, **13**, 1906, (60-64). [*Lepidoptera*.]

Aigner-Abafi, L. 4. Új magyar lepkealkotók. [Neue Falterformen aus Ungarn.] Rovart. L., Budapest, **13**, 1906, (69-75). [*Lepidoptera*.]

Aigner-Abafi, L. 5. A magyar lepkefauna gyarapodása 1905 ben. [Zuwachs der ungarischen *Lepidopteren*fauna im

Jahre 1905.] Rovart. L., Budapest, **13**, 1906, (113-114).

Aigner-Abafi, L. 6. Japánországi lepkefaunájáról. [Über die *Lepidopteren*-fauna Japans.] Állatt. Közlem., Budapest, **5**, 1906, (109-115).

Aigner-Abafi, L. von. 7. Neue Falterformen aus Ungarn. Ent. Zs., Guben, **19**, 1906, (207-210). [*Lepidoptera*.]

Aigner-Abafi, L. von. 8. *Satyrus briseis* L. Ent. Zs., Guben, **20**, 1906, (11-12). [*Lepidoptera*.]

Aigner-Abafi, L. von. 9. Blattläuse und Schmetterlinge. Insektenbörse, Leipzig, **23**, 1906, (32). [*Lepidoptera*.]

Ainslie, C. N. The snow fly, *Chionea valga*. Canad. Entomol., **38**, 1906, (275-276). [*Diptera*.]

Akashi, Hiroshi. Sōju Gaichū ni tsuite. [On the injurious insects of mulberry trees.] Tokyo, Nip. Sanshi Kw. Hō, **173**, 1906, (19-21).

Aldrich, J[ohn] M[erton]. 1. The *Dipterous* genus *Calotarsa*, with one new species. Ent. News, Philadelphia, Pa., **17**, 1906, (123-127, pl. iv).

Aldrich, J. M. 2. Baron Osten Sacken. Ent. News, Philadelphia, Pa., **17**, 1906, (269-272, with portr.).

Alfken, J. D. Verzeichnis der bei Bremen und Umgebung aufgefundenen Geradflügler (*Orthoptera genuina*). Bremen, Abh. natw. Ver., **18**, 1906, (301-309).

(**Allard, P.** Coléopterès (*Tenebrionides*, *Chrysomelides*). Mission Pavie, **3**, 1904, (108-109, 157-163).)

Allen, J. E. R. *Oporabia christeyi* Proser, a distinct species. Ent. Rec., London, **18**, 1906, (85-89). [*Lepidoptera*.]

Ammann, Jos. Kämpfende Käfer [*Lucanus cervus*]. Natur u. Glaube, Leutkirch, **9**, 1906, (139-140). [*Coleoptera*.]

Amore (D') Fracassi, Antonio. 1. Una nuova specie e una nuova varietà appartenenti al gen. *Hoplia* Illig., subgen. *Decamera* Muls. Riv. Coleotter. ital., Camerino, **4**, 1906, (57-62). [*Coleoptera*.]

Amore (D') Fracassi, A. 2. Una nuova specie appartenente al gen. *Otiorrhynchus*. Riv. Colcotter. ital., Camerino, **4**, 1906, (117-119). [*Coleoptera*.]

Amore (D') Fracassi, A. 3. Una rettifica ed una sinonimia [*Haptoneris siculus*; *Sciaphobus psittacinus*]. Naturalista sicil., Palermo, **18**, N. 9-10, 1906, (193-194). [*Coleoptera*.]

Amore (D') Fracassi, A. 4. Una nuova specie appartenente al genere *Eudipnus* (*E. auronitens* Baudi in lit. n. sp.). Naturalista sicil., Palermo, **18**, N. 9-10, 1906, (198-200). [*Coleoptera*.]

André, Ernest. 1. Nouvelles espèces de Mutillides d'Amérique (continuation). Zs. Hymenopter., Teschendorf, **5**, 1905, (361-376); **6**, 1906, (33-48, 65-80, 161-169).

(André, E. 2. Diagnoses de deux espèces nouvelles de Mutilles du Transvaal. Paris, Bul. soc. ent., **1905**, (24-25). [4631 4627 fg].)

(André, E. 3. Mutillides nouveaux ou imparfaitement connus de divers pays. Paris, Ann. Soc. ent., **72**, 1903, (417-459). [4631].)

(André, E. 4. Examen critique d'une nouvelle classification proposée par M. le Dr. W. H. Ashmead pour la famille des *Mutillidae*. Rev. ent., Caen, **23**, 1904, (27-41). [4631].)

(André, E. 5. Description d'un genre nouveau et de deux espèces nouvelles de Fourmis d'Australie. Rev. ent., Caen, **24**, 1905, (205-208). [4627 ie 4631].)

André, E. vide Saussure, H. de.

Andrews, E. C. and Andrews, F. W. Rearing of *Apatura iris* from a forced oviposition. Ent. Mag., London, **42**, 1906, (224-228). [*Lepidoptera*.]

Annandale, N. 1. Notes on the freshwater fauna of India. No. III. - An Indian aquatic cockroach and beetle larva. Calcutta, J. As. Soc. Beng., **2**, 1906, (105-108).

Annandale, N. 2. Notes on the freshwater fauna of India. No. IV. A *Chironomid* larva which feeds upon *Hydra orientalis*. Calcutta, J. As. Soc. Beng., **2**, (112-115). [*Diptera*.]

Annandale, N. 3. Notes on the freshwater fauna of India. No. V. Some

animals found associated with *Spongilla carteri* in Calcutta. Calcutta, J. As. Soc. Beng., **2**, 1906, (187-196).

Annandale, N. 4. Note on the habits of the earwig *Labidura lividipes*. Calcutta, J. As. Soc. Beng., **2**, 1906, (391).

Annandale, N. and Paiva, C[harles] A[lexander]. Notes on the Freshwater Fauna of India. No. VI. The life-history of an aquatic Weevil. Calcutta, J. As. Soc. Beng., **2**, No. 5, 1906, (197-200). [*Coleoptera*.]

Annandale, N. and Robinson, Herbert C. Fasciculi malayenses. Zoology, part **3**. Liverpool, 1906. 4to. (1-148, 1 pl.). [Portions were issued from 1904 to 1906.]

Apfelbeck, Victor. Neue Koleopteren, gesammelt während einer im Jahre 1905 mit Subvention der kaiserlichen Akademie der Wissenschaften in Wien durchgeführten zoologischen Forschungsreise nach Albanien und Montenegro. Wien, SitzBer. Ak. Wiss., **115**, Abt. I, 1906, (1661-1674).

Arnhart, Ludwig. 1. Die Zwischenräume zwischen den Wachsdrüsenzellen der Honigbiene. Zool. Anz., Leipzig, **30**, 1906, (719-721). [*Hymenoptera*.]

Arnhart, L. 2. Die Bedeutung der Aortaschlängenwindungen des Bienenherzens. Zool. Anz., Leipzig, **30**, 1906, (721-722). [*Hymenoptera*.]

Arrow, Gilbert J. 1. On three remarkable new Melolonthid *Coleoptera* from Sumatra and Borneo in the British Museum. Ann. Mag. Nat. Hist., London, ser. 7, **18**, 1906, (48-50).

Arrow, G. J. 2. On Lamellicorn *Coleoptera* from Portuguese West Africa, with descriptions of new species. Ann. Mag. Nat. Hist., ser. 7, **18**, 1906, (127-136).

Arrow, G. J. 3. A contribution to the classification of the *Coleopterous* family *Passalidae*. London, Trans. Ent. Soc., **1906**, (441-469).

Arrow, G. J. 4. *Lucanidae* and *Scarabaeidae* P. P. Nova Guinea, Résultats de l'Expedition scientifique Néerlandaise à la Nouvelle-Guinée en 1903, sous les auspices de Arthur Wichmann, Chef de l'Expédition. Leide

(E. J. Brill), **5**, Livr. 1, 1906, (27-28). [*Coleoptera*.]

Ashmead, W. H. 1. A new Cryptine genus from Cuba. *Canad. Entomol.*, **38**, 1906, (294-295). [*Hymenoptera*.]

Ashmead, W. H. 2. Descriptions of new *Hymenoptera* from Japan. Washington, D.C., Smithsonian Inst., U.S. Nation. Mus., Proc., **30**, 1906, No. 1448, (169-201, pl.).

Ashmead, W. H. 3. Classification of the foraging and driver ants, or family *Dorylidae*, with a description of the genus *Ctenopyga* Ashm. Washington, D.C., Proc. Ent. Soc., **8**, 1906, (21-31). [*Hymenoptera*.]

(**Ashmead, W. H. 4.** Two new *Myrmariidae* from Russian Turkestan. *Ent. News*, Philadelphia, Pa., **16**, 1905, (213-214). [4627 *ea* 4631].)

Auel, H. Ein Pseudo-Hermaphredit von *Malacosoma castrensis* (Lep.). *Zs. wiss. Insektenbiol.*, Husum, **2**, 1906, (354-356). [*Lepidoptera*.]

Aurivillius, Chr. 1. Verzeichnis von Lepidopteren gesammelt bei Mukimbungu am unteren Kongo von Herrn E. Laman. Zweite und dritte Sendung. Uppsala Arkiv. Zool., **3**, 1906, No. 1, (1-16, pl. i).

(**Aurivillius, C. 2.** Coléoptères (Curculionides). *Mission Pavie*, **3**, 1904, (110-127). [4831 4827 *ed*].)

Austaut, Jules Léon. 1. Notice sur le *Chaerocampa boisduvalii* Bugnion. *Ent. Zs.*, Guben, **19**, 1906, (181-183). [*Lepidoptera*.]

Austaut, J. L. 2. Notice sur quelques espèces nouvelles ou peu connues du genre *Parnassius*. *Ent. Zs.*, Guben, **20**, 1906, (66-86). [*Lepidoptera*.]

Austen, Ernest Edward. 1. Illustrations of British bloodsucking flies, with notes. London, 1906, British Museum, (1-74, 34 pls.). [*Diptera*.]

Austen, E. E. 2. Synonymic notes on *Musea marginalis* Wied., and the genus *Pyenosoma* Br. and von Berg. *Ann. Mag. Nat. Hist.*, London, Ser. 7, **17**, 1906, (301-304). [*Diptera*.]

Austen, E. E. 3. Horse-flies (*Tabanidae*), and disease. *J. Trop. Med.*, London, **9**, 1906, (98, 99). [*Diptera*.]

Austen, E. E. 4. An insect enemy of the disseminator of human tick fever in Angola. *J. Trop. Med.*, London, **9**, 1906, (113). [*Hemiptera*.]

Austen, E. E. 5. On some blood-sucking and other *Diptera* from the Anglo-Egyptian Sudan collected during the year 1905, with descriptions of new species. Khartoum, **2**. Rep. Wellcome Res. Lab., 1906, (51-66, pls. iv-vi).

Axelson, Walter M. Beitrag zur Kenntnis der Collembolenfauna in der Umgebung Revels. Helsingfors, Acta Soc. Fauna Fl. Fenn., **28**, 1906, No. 2, (1-22, 1 pl.).

Azam, J. 1. Description d'une espèce et d'une variété nouvelles de *Forficules* de Russie. Paris, Bul. soc. ent., **1906**, (80-82). [*Orthoptera*.]

Azam, J. 2. Description d'un *Stenobothrus* nouveau des Pyrénées. Paris, Bul. soc. ent., **1906**, (128-131). [*Orthoptera*.]

Bacot, A. W. Scents of insects and their meanings. *Ent. Rec.*, London, **18**, 1906, (40).

Baeckmann, J. *vide* Semenov, A.

(**Baer, G. A.** Note sur un Membracide myrmécophile de la République Argentine. Paris, Bul. Soc. ent., **1903**, (306-308). [4631 4619 4627 *hi*].)

Baer, W. 1. *Lophyrus similis* Htg. *Natw. Zs. Landw.*, Stuttgart, **4**, 1906, (84-92).

Baer, W. 2. Beobachtungen und Studien über *Dioryctria splendidella* H. S. und *abictella* S. V. *Tharander forstl. Jahrb.*, **56**, 1906, (63-85, mit 2 Taf.).

Bagnall, R. S. 1. Notes on some *Coleoptera* imported into our Northern ports. *Ent. Mag.*, London, **42**, 1906, (36-38).

Bagnall, R. S. 2. *Cryptomorpha desjardinsi* Guér. A probable cosmopolitan beetle. *Ent. Rec.*, London, **18**, 1906, (275). [*Coleoptera*.]

Bagnall, R. S. 3. *Formicoxenus nitidulus* Nyl., ♂ as British. *Ent. Mag.*, London, **42**, 1906, (210). [*Hymenoptera*.]

(**Balducci, Enrico.** Nota intorno alla *Arpyia rinula*, Ochsen. Firenze, Boll. Soc. Entom., **36**, (1904), trimestre III, 1905, (117-122, con 1 tav.). [4431].)

Balestre, L. 1. Une nouvelle *Aci-dalia*. Paris, Bul. soc. ent., 1906, (80). [*Lepidoptera*.]

(**Balestre, L.** 2. Note sur six *Plusia* nouvelles pour les Alpes-Maritimes. Paris, Bul. soc. ent., 1904, (267-268). [4431 4427 *df*].)

Balfour, Andrew. 1. Mosquito work in Khartoum and the Anglo-Egyptian Sudan generally. Khartoum, Rep. Wellcome Res. Lab., 2, 1906, (15-27, with pls.). [*Diptera*.]

Balfour, A. 2. Second report of the Wellcome research laboratories at the Gordon Memorial College, Khartoum. Khartoum, 1906, (1-255, plates i-xxi.)

Balfour, A. 3. Biting and noxious insects other than mosquitoes. Khartoum, Rep. Wellcome Res. Lab., 2, 1906, (29-50, with pls.).

(**Balfour, A.** 4. Mosquito work in Khartoum and in the Anglo-Egyptian Sudan generally. Khartoum, Rep. Wellcome Res. Lab., 1, 1904, (14-36, with pls.). [4203 4227 *fb* 4231].)

(**Balfour, A.** 5. Biting and noxious insects other than mosquitoes. Khartoum, Rep. Wellcome Res. Lab., 1, 1904, (38-39, with pl.). [3503 3527 *fb*].)

(**Balfour, A.** 6. Insects and vegetable parasites injurious to crops. Khartoum, Rep. Wellcome Res. Lab., 1, 1904, (41-45, with pls.). [3503 3527 *fb* 4031].)

Bandermann, Franz. Ergebnis einer Zucht von *Euproctis chrysorrhoea* L. Ent. Zs., Guben, 20, 1906, (97-98). [*Lepidoptera*.]

Bang-Haas, A. Neue oder wenig bekannte palaearctische *Macrolepidopteren*. D. ent. Zs. Iris, Berlin, 19, 1906, (127-144).

Bankes, Eustace R. 1. Notes on *Tortrix pronubana* Hb. Ent. Mag., London, 42, 1906, (6-7).

Bankes, E. R. 2. *Mesophleps silacellus* Hb., a *Lepidopterous* genus and species new to Britain, in Sussex. Ent. Mag., London, 42, 1906, (28-29).

Bankes, E. R. 3. Notes on *Epiblema* (*Paedisca*) *sordidana* Hb., with descriptions of the larva and pupa. Ent. Mag., London, 42, 1906, (101-106). [*Lepidoptera*.]

Bankes, E. R. 4. Descriptions of the larva and pupa of *Aristotelia palustrella* Dgl. Ent. Mag., London, 42, 1906, (143-146). [*Lepidoptera*.]

Bankes, E. R. *vide* Rothschild, N. C.

Banks, Charles S. 1. The principal insects attacking the coconut palm. Philippine J. Sci., Manila, 1, 1906, (143-167, 211-228, with 9 pls.).

Banks, C. S. 2. New Philippine insects. Philippine J. Sci., Manila, 1, 1906, (229-238, with 9 pls.). [*Lepidoptera Coccidae*.]

Banks, C. S. 3. A new genus and species of *Culicidae*. Philippine J. Sci., Manila, 1, 1906, (779-782, pl. i). [*Diptera*.]

Banks, C. S. 4. A list of Philippine *Culicidae*, with descriptions of some new species. Philippine J. Sci., Manila, P.I., 1, 1906, (977-1005). [*Diptera*.]

Banks, C. S. 5. A change of name in *Coccidae*. Philippine J. Sci., Manila, P.I., 1, 1906, (787).

Banks, C. S. 6. Problems in economic entomology in the Philippines. Philippine J. Sci., Manila, P.I., 1, 1906, (1067-1074).

Banks, Nathan. 1. Three new species of *Neuroptera*. Psyche, Cambridge, Mass., 13, 1906, (98-100).

Banks, N. 2. Annual address of the president: A plea for the genus. Washington, D.C., Proc. Ent. Soc., 8, 1906, (37-45).

Banks, N. 3. On the *Perlidae* genus *Chloroperla*. Ent. News, Philadelphia, Pa., 17, 1906, (174-175).

Banks, N. 4. Notes on the classification of the *Perlidae*. Canad. Entomol., 38, 1906, (221-224).

Banks, N. 5. Notes on *Pteronarcys*, a genus of *Perlidae*. Washington, D.C., Proc. Ent. Soc., 8, 1906, (8-9, with text fig.).

Banks, N. 6. New species of *Perlidae*. Canad. Entomol., 38, 1906, (335-338).

Banks, N. 7. Two new *Termites*. Ent. News, Philadelphia, Pa., 17, 1906, (336-337).

Banks, N. 8. Descriptions of new Nearctic *Neuropteroid* insects. Philadelphia, Pa., Trans. Amer. Ent. Soc., 32, 1906, (1-20, pls. i, ii).

Banks, N. 9. A revision of the nearctic *Hemerobiidae*. Philadelphia, Pa., Trans. Amer. Ent. Soc., **32**, 1906, (21-51, pls. iii-v). [*Neuroptera*.]

Barber, H. G. *Hemiptera* from southwestern Texas. Brooklyn, N.Y., Mus. Inst. Arts Sci., Bull., **1**, 1906, (255-289).

Barbey, A. 1. Recherches biologiques sur les Insectes parasites du figuier (*Hypoborus ficus* Erichs. et *Sinoxylon sexdentatum* Ol). Feuille jeunes natural., Paris, sér. 4, **36**, 1906, (93-97). [*Coleoptera*.]

Barbey, A. 2. Neue Beobachtungen über die Borkenkäfer der Seestrandkiefer. I. *Crypturgus mediterraneus* Eichh. Natw. Zs. Landw., Stuttgart, **4**, 1906, (217-220). [*Coleoptera*.]

Bargmann. Die Miniergänge der Borkenkäfer, ihre biologische Bedeutung. Natw. Zs. Landw., Stuttgart, **4**, 1906, (310-328). [*Coleoptera*.]

Barkowski. Aus meiner *Neerophoren*-Sammlung. Insektenbörse, Leipzig, **23**, 1906, (156). [*Coleoptera*.]

Barnes, William. A new *Lasiocampid* from Arizona. Canad. Entomol., **38**, 1906, (62). [*Lepidoptera*.]

[**Barovskij, B.**] Баровскій, Б. Новый видъ *Scymnus* изъ С.-Петербургской губернии (*Coleoptera, Coccinellidae*). [Nouvelle espèce du genre *Scymnus* du Gouvernement de St. Pétersbourg.] Rev. russ. ent., St. Petersburg, **6**, 1906, (8-9).

[**Barovskij, Vlad[imir].** Баровскій, Влад. Новый для Россіи видъ златки. *Dicerea miranda* Reitt. (*Coleoptera, Buprestidae*). [Eine für Russland neue Prachtkäferart. *Dicerea miranda* Reitt. (*Coleoptera, Buprestidae*)] St. Petersburg, Hor. Soc. Ent. Ross., **37**, 1906, (cxx-cxxi).

Barovskij, B. *vide* Semenov, A.

Barrett, Charles G. The *Lepidoptera* of the British islands. Vol. XI. *Heterocera, Tortricina*. London, 1905-1907, (lxxv + 293, pls. cdlxx div). Svo.

Barrett, O. W. Notes on the man-infesting bot in Mexico. [Author's abstract.] Washington, D.C., Proc. Ent. Soc., **8**, 1906, (3-4). [*Diptera*.]

Barrett, O. W. *vide* Fairchild, D.

Barrows, W. M. *vide* Castle, W. E.

Bartal, Alajos. Adatok Magyarország légyfaunájához. [Beiträge zur *Dipteren*-Fauna von Ungarn.] Rovart. L., Budapest, **13**, 1906, (119-123, 170-178).

Bartel, Max. 1. *Acidulia libycata* nov. sp. Ent. Zs., Guben, **20**, 1906, (2-3). [*Lepidoptera*.]

Bartel, M. 2. Zur Naturgeschichte von *Euclidia munita* Hb. Ent. Zs., Guben, **20**, 1906, (116-117). [*Lepidoptera*.]

Bartel, M. 3. Eine neue *Sesia*-Art aus der Schweiz. Ent. Zs., Guben, **19**, 1906, (190-191). [*Lepidoptera*.]

Bartel, M. 4. Ueber die Arten der Gattung *Perigrapha* Ld. und Beschreibung einer neuen Lokalform von *P. cincta* F. Insektenbörse, Leipzig, **23**, 1906, (63). [*Lepidoptera*.]

Barthe, E. Catalogues *Coleopterorum* Galliae et Corsicae. Misc. ent., Narbonne, **13**, 1905, (81-88, 97-103, 159-166).

Bau, Arminius. *Diptera*, Fam. *Muscaridae* subfam. *Oestrinae* in Wytsman Genera insectorum, 43^{me} fascic., 1906, (1-31, 2 plates).

Baum, Hermann *vide* Ellenberger, Wilhelm.

Bayford, E. G. *Drilus flavescens* Rossi, ♀, and its larva. Ent. Mag., London, **42**, 1906, (267-268). [*Coleoptera*.]

Beare, T. Hudson. 1. *Coleoptera* from Fair Isle, North Britain. Ent. Mag., London, **42**, 1906, (77-78).

Beare, T. II. 2. Notes on some *Coleoptera* from Fair Isle. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (81-83).

Becker, L. Une chasse de nuit en 1859. Bruxelles, Mém. Soc. ent. Belgique, **12**, 1906, (97-98). [*Lepidoptera*.]

Becker, Th. 1. Die Ergebnisse meiner dipterologischen Frühjahrsreise nach Algier und Tunis. Zs. Hymenopter., Terschendorf, **6**, 1906, (1-16, 97-113, 145-158, 273-286, 353-367). [*Diptera*.]

Becker, T. 2. *Usia* Latr. Berliner ent. Zs., **50**, (1905), 1906, (193-228, mit 1 Taf.). [*Diptera*.]

Becker, T. 3. Notiz zu *Usia taeniolata* A. Costa. Napoli, Annuario Museo zool., N. Ser., 2, N. 8, 1906, (1). [*Diptera.*]

Becker, T. 4. *Timia* Wied. Entomol. Ztg., Wien, 25, 1906, (108-118). [*Diptera.*]

(**Becker, T. 5.** Bemerkungen zu den Regeln über Nomenclatur. Entomol. Ztg., Wien, 20, 1901, (132-135). [4231].)

Bedel, Louis. 1. Catalogue raisonné des Coléoptères du nord de l'Afrique (Maroc, Algérie, Tunisie et Tripolitaine, avec notes sur la faune des îles Canaries et de Madère). Abeille, Paris, (pag. spéc. 209-264).

Bedel, L. 2. Revision du genre *Osmoderma* Gory et Perch. Abeille, Paris, 30, 1906, (253-258). [*Coleoptera.*]

Bedel, L. 3. Un nouvel *Onthophagus* français. Paris, Bul. soc. ent., 1906, (77-78). [*Coleoptera.*]

Bedel, L. 4. Synonymes de Coléoptères paléarctiques. Paris, Bul. soc. ent., 1906, (91-93).

Bedel, L. 5. Changement d'un nom de genre de Coléoptères. Paris, Bul. soc. ent., 1906, (177-178).

(**Bedel, L. 6.** Catalogue raisonné des Coléoptères du Nord de l'Afrique, fascicule 2. Abeille, Paris, 1902, (209-220), 1904, (221-228), 1905, (229-252, pagination spéciale).)

(**Bedel, L. 7.** Description d'un nouveau type des Cléonides de la région Saharienne. Paris, Bul. soc. ent., 1903, (284-285). [4831 4827 fa fc].)

(**Bedel, L. 8.** Origine, mœurs et synonymie d'un Curculionide aquatique : *Stenopelmus rufimanus* Gyl. (*Degorsia champenoisi* Bed.). Paris, Bul. soc. ent., 1904, (23-24). [4831 4819 4827 df g].)

(**Bedel, L. 9.** Liste de coléoptères récoltés à la Ferté Alais (Seine et Oise). Paris, Bul. soc. ent., 1904, (210-212). [4831 4827 df].)

(**Bedel, L. 10.** Liste de Coléoptères trouvés à Itteville (Seine et Oise). Paris, Bul. Soc. ent., 1905, (176-177). [1827 df].)

(**Bedel, L. 11.** Description de deux Coléoptères hétéromères nouveaux de

la côte occidentale du Maroc. Paris, Bul. soc. ent., 1905, (272-273). [4831 4827 fa].)

(**Bedel, L. 12.** Indication de quelques Coléoptères européens retrouvés récemment en Barbarie. Paris, Bul. soc. ent., 1905, (289-291). [4831 4827 fa].)

Béguin, L. Mœurs du *Bolboceus gallicus* Muls. Paris, Bul. soc. ent., 1906, (93-94). [*Coleoptera.*]

(**Béguin-Billecocq, L. 1.** Description d'une nouvelle espèce de *Piezotrachelus* de Madagascar. Paris, Bul. soc. ent., 1903, (285-286). [4831 4827 fh].)

(**Béguin-Billecocq, L. 2.** Diagnoses sommaires d'espèces nouvelles d'*Apion* Herbst provenant de la région Malgache. Paris, Bul. soc. ent., 1904, (54-57, 103-104). [4831 4827 fh].)

(**Béguin-Billecocq, L. 3.** Note sur *Mecodenus Wahlbergi* Sch., Curculionide d'Afrique australe, peu connue. Paris, Bul. soc. ent., 1905, (43-44). [4831 4827 fg].)

(**Béguin-Billecocq, L. 4.** Description d'une espèce nouvelle d'*Apion* Herbst de Madagascar. Paris, Bul. soc. ent., 1905, (45). [4831].)

(**Béguin-Billecocq, L. 5.** Diagnoses d'espèces nouvelles d'*Apionidae* provenant de la région malgache. Paris, Ann. soc. ent., 74, 1905, (135-159). [4831 4827 fh].)

[**Běljavskij, A.** Бѣляскій, А. Ячейка пчелинаго сота съ точки зрѣнія математики. [Die Zelle der Bienenwabe vom mathematischen Gesichtspunkte aus betrachtet]. Věst. Obšč. pčelovod., St. Peterburg, 13, 1906, (76-79). [*Hymenoptera.*]

(**Bell, R. G.** vide Kellogg, V. L.)

Bell, T. R. Observations on Indian butterflies. Ent. Mag., London, 42, 1906, (121-128). [*Lepidoptera.*]

Benick, Ludwig. Die Brutpflege des Espenbockkäfers (*Saperda populea* L.). Nerthus, Altona, 6, 1904, (306-310).

Béranguier, Paul. Notes orthoptérologiques. I. La magicienne dentelée, *Saga serrata*. Nîmes, Bul. soc. étud. sci. nat., 33, 1906, (145-154, av. fig.). [*Orthoptera.*]

Berger, E[dward] W[illiam]. 1. Observations upon the migrating, feeding, and nesting habits of the fall webworm (*Hyphantria cunea* Dru.). Washington, D.C., Bull. U. S. Dept. Agric., Bur. Ent., No. 60, 1906, (41-51, pl.). [*Lepidoptera*.]

Berger, E. W. 2. Notes on the fall webworm (*Hyphantria cunea*) in Ohio. [Abstract.] Ohio Nat., Columbus, Ohio, 6, 1906, (453-456). [*Lepidoptera*.]

Bergner, Johannes. Ueber die Converganz-Erscheinungen zwischen den Raupen von *Plusia C aureum* Kn. und *Notodonta ziczac* L. Zs. wiss. Insektenbiol., Husum, 2, 1906, (237-246, 265-276, 1 Taf.). [*Lepidoptera*.]

Bergroth, E. 1. *Henicocephali* novi in Museo Nationali Hungarico. Ann. Hist.-Nat. Mus. Nat. Hung., Budapest, 4, 1906, (323-326). [*Hemiptera*.]

Bergroth, E. 2. Notes on American Hemiptera. Canad. Entomol., 38, 1906, (198-202).

Bergroth, E. 3. Neue Hemiptera aus Madagaskar. II. Bruxelles, Ann. Soc. ent. Belgique, 50, 1906, (254-270).

Bergroth, E. 4. *Rhynchota* aethiopica. V. Bruxelles, Ann. Soc. ent. Belgique, 50, 1906, (196-203).

Bergroth, E. 5. A new genus of *Lygaeidae* from Japan. Ent. News, Philadelphia, Pa., 17, 1906, (335-336). [*Hemiptera*.]

Bergroth, E. 6. Aphylinae und Hyoccephalinae, zwei neue Hemipteren-Subfamilien. Zool. Anz., Leipzig, 29, 1906, (644-649).

Bergroth, E. 7. Systematische und synonymische Bemerkungen über Hemipteren. Entomol. Ztg., Wien, 25, 1906, (1-12).

Bergroth, E. 8. Neue austromalayische Hemiptera. Entomol. Ztg., Wien, 25, 1905, (12-16).

Bergroth, E. 9. Neue Hemiptera aus Madagascar. Entomol. Ztg., Wien, 25, 1906, (17-19).

Bergroth, E. 10. Zur Kenntnis der Ploeariinen. Wien, Verh. ZoolBot. Ges., 1906, (305-321). [*Hemiptera*.]

(Bergroth, E. 11. *Rhynchota* neotropicala. Rev. ent., Caen, 24, 1905, (104-112). [4027 h 4031].)

Berlese, Antonio. 1. Gli insetti, loro organizzazione, sviluppo, abitudini e rapporti coll'uomo. Fasc. 1-17. Milano, 1906, (1-520). 4to.

Berlese, A. 2. Sopra una nuova specie di Mucedinea parassita del *Ceroplastes rusci*. Redia, Firenze, 3, 1906, (8-15). [*Coccidae*.]

Berlese, A. 3. Sopra una anomalia negli organi sessuali esterni femminei di *Locusta viridissima*. Redia, Firenze, 3, (1905), 1906, (305-314). [*Orthoptera*.]

Berlese, A. 4. Probabile metodo di lotta efficace contro la *Ceratitis capitata* Wied. e *Rhagoletis cerasi* L. ed altre Tripetidi. Redia, Firenze, 3, 1906, (386-388). [*Diptera*.]

Berlese, Antonio i Paoli, G. Serie maschile della *Pollinia pollinii* Costa. Redia, Firenze, 3, (1905), 1906, (393-395). [*Coccidae*.]

Berlese, Antonio i Silvestri, Filippo. Descrizione di un nuovo genere e di una nuova specie di Lecanite vivente sull'olivo. Redia, Firenze, 3, 1906, (396-407). [*Coccidae*.]

Bernhauer, Max. 1. Neue Staphyliniden aus Afrika. D. ent. Zs., Berlin, 1906, (185-192). [*Coleoptera*.]

Bernhauer, M. 2. Neue Staphyliniden aus Südamerika. (TI II.) D. ent. Zs., Berlin, 1906, (193-202). [*Coleoptera*.]

Bernhauer, M. 3. Neue Staphyliniden aus Südamerika. 3 Stuck. Wien, Verh. ZoolBot. Ges., 1906, (322-339). [*Coleoptera*.]

Bernhauer, M. 4. Neue Aleocharinen aus Nordamerika (TI II). D. ent. Zs., Berlin, 1906, (337-348). [*Coleoptera*.]

Berthoumieu. 1. Supplément aux Ichneumonien d'Europe et d'Algérie. Echange, Moulins, 22, 1906, (59-60). [*Hymenoptera*.]

(Berthoumieu, V. 2. Nouveaux Ichneumonides de France et des îles Canaries. Paris, Bul. soc. ent., 1903, (308-310). [4631 4627 df lb].) 53

(Berthoumieu, V. 3. Ichneumonien d'Espagne et des Canaries. Paris, Bul. soc. ent., 1904, (270-271). [4631 4627 dg lb].)

Bethune, C. J. S. Bibliography of Canadian entomology for the year 1904. Ottawa, Trans. R. Soc. Can., ser. 2, **11**, 1906, (57-63).

Bethune-Baker, George T. **1.** New species of *Lycaenidae* from British New Guinea. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (100-104). [*Lepidoptera*.]

Bethune-Baker, G. T. **2.** Descriptions of some new African butterflies. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (104-110). [*Lepidoptera*.]

Bethune-Baker, G. T. **3.** Descriptions of African *Lepidoptera*. Ann. Mag. Nat. Hist., London, ser. 7, **18**, 1906, (339-345), and correction (473).

Bethune-Baker, G. T. **4.** New *Noctuidae* from British New Guinea. Nov. Zool., Tring, **13**, 1906, (191-287). [*Lepidoptera*.]

[**Bezval, B.**] БЕЗВАЛЬ, В. Къ биологii *Cleonus punctiventris* Germ. [Zur Biologie von *Cleonus punctiventris* Germ.] Věst. sacharn. promysl., Kiev, **5**, 1904, 4, (243-247). [*Coleoptera*.]

Bezzi, Mario. **1.** Noch einige neue Namen für Dipterengattungen. Zs. Hymenopter., Teschendorf, **6**, 1906, (49-55).

Bezzi, M. **2.** Nachträgliche Berichtigung. Zs. Hymenopter., Teschendorf, **6**, 1906, (144).

Bezzi, M. **3.** Intorno al tipo della *Echinomyia* paolilli A. Costa. Napoli, Annuario Museo. zool., N. Ser., **2**, N. 7, 1906, (1-2). [*Diptera*.]

Bezzi, M. **4.** Die Dipterengattung *Methylla* Nansen. Entomol. Ztg., Wien, **25**, 1906, (20).

Bezzi, M. **5.** *Ditteri* Eritrei raccolti dal Dott. Andreini e dal Prof. Tellini. Parte prima. Firenze, Boll. Soc. Entom., **37**, (1905), 1906, (195-304).

[**Bianchi, L.**] БІАНКІ, Л. В. Къ фауны *Hemiptera-Heteroptera* Новгородск. губ. [Beitrag zur Kenntnis der Hemipteren-Heteropterenfauna des Gouvernement Novgorod.] St. Peterburg, Ber. Süßwasserst. Naturf. Ges., **2**, 1906, (61-64).

Bickhardt, Heinrich. **1.** Coleopterologische Ergebnisse einer Reise nach Korsika. Ent. Zs., Guben, **20**, 1906, (106-107, 113-114, 122-123, 132-134).

Bickhardt, H. **2.** Beitrag zur Coleopteren-Fauna von Korsika. Entomol. Ztg., Wien, **25**, 1906, (291-296).

(**Bigot, J. M. J.** *Diptères recueillis en Indo-Chine par M. O. Pavie. Mission Pavie*, **3**, 1904, (253-257).)

Bingham, Charles T. **1.** New species of *Braconidae* and *Chalcididae* from N. Queensland, bred by F. P. Dodd. London, Trans. Ent. Soc., **1906**, (125-130). [*Hymenoptera*.]

Bingham, C. T. **2.** Report on the Aculeate *Hymenoptera*. (19-60), pl. A. Fascic. Mal. Zool. [? pt. **3**], 1905, [part 3 is dated 1906].

Bird, J. F. Butterflies in the Wye Valley during 1906. Ent. Rec., London, **18**, 1906, (277-281). [*Lepidoptera*.]

Bischof, Josef. Neuropteren und Dipteren [in Penther und Zederbauer, Reise zum Erdschias-Daghi]. Wien, Ann. Nat. Hist. Hofmus., **20**, 1906, (170-179).

Blachier, Ch. **1.** Lépidoptères paléarctiques. Notes complémentaires sur quelques espèces et variétés récemment décrites. Paris, Ann. soc. ent., **75**, 1906, (21-25, pl. ii).

(**Blachier, C.** **2.** Descriptions sommaires d'espèces et de variétés nouvelles de Lépidoptères paléarctiques. Paris, Bul. soc. ent., **1905**, (52-54). [4431.]

(**Blachier, C.** **3.** Description de Lépidoptères nouveaux du Maroc. Paris, Bul. soc. ent., **1905**, (212-215). [4431 4427 fa].)

Black, James E. *Cryptohypnus pulchellus*, L. Ent. Mag., London, **42**, 1906, (155). [*Coleoptera*.]

Blackburn, T. A. Further notes on Australian *Coleoptera*, with descriptions of new genera and species. xxxvi. Adelaide S. Aust., Trans. R. Soc., **30**, 1906, (263-324).

Blaisdell, F[rank] E[llsworth]. **1.** New Californian *Coleoptera*. Ent. News, Philadelphia, Pa., **17**, 1906, (71-80).

Blaisdell, F. E. **2.** Notes and description of the larva of *Culex varipalpus* Coq. Ent. News, Philadelphia, Pa., **17**, 1906, (107-109, pl.). [*Diptera*.]

(**Blanchard, R.** Sur une chenille du Soudan. Paris, Bul. soc. zool., **30**, 1905, (127-129, av. fig.) [4431 4427 fe].)

Blathwayt, Linley and Hudd, E. Insects. Victoria history county of Somerset, **1**, 1906, (73-120).

Blomfield, James E. Structure and origin of canker of the apple tree. Q. J. Microsc. Sci., London, **50**, 1906, (573-579, pl. xxxii). [*Aphidac.*]

Bloomfield, E. N. Suffolk *Lepidoptera* in 1905. Ent. Mag., London, **42**, 1906, (85, 86).

Blösch, Carl. Verzeichnis einiger Braconiden und Ichneumoniden aus der Umgegend von Laufenburg, Aargau. Schaffhausen, Mitt. schweiz. ent. Ges., **11**, 1906, (221-234). [*Hymenoptera.*]

Blumenthal, Nicolaus. Beobachtungen über den Entpuppungsakt der *Acherontia atropos*. Insektenbörse, Leipzig, **23**, 1906, (207-208). [*Lepidoptera.*]

Boas, I. E. V. 1. Skadelige Insekter i vore Haver. [Injurious insects in our gardens.] Kjöbenhavn, 1906, (1-74). 23 x 15. 50 Öre.

Boas, I. E. V. 2. Om Oksebremsen og Midlerne til dens Udryddelse. [The warble-fly and how to exterminate it.] Kjöbenhavn (Aug. Bangs Boghandel), 1906, (1-14). 23 x 15. 25 Öre. [*Diptera.*]

Bodemeyer, E. von. Beiträge zur Käferfauna von Klein-Asien. [Nebst Zusatz v. J. Weise.] D. ent. Zs., Berlin, 1906, (117-134). [*Coleoptera*]

Boeker, P. Nutzen der *Coccinella*-Larven. Berlin, Arb. biol. Anst., **5**, 1906, (282). [*Coleoptera.*]

Börner, Carl. 1. *Collembola Symphyleona*. Fam. *Neelidae*. in Wytsman Genera insectorum, **45^{mc}**, fascic., (1-5, 1 pl).

Börner, C. 2. Zwei neue Möhrenschildlinge aus den Gattungen *Ceutorhynchidius* und *Phytomyza*. Berlin, Arb. biol. Anst., **5**, 1906, (283-292).

Börner, C. 4. Das System der *Collembolen* nebst Beschreibung neuer *Collembolen* des Hamburger Naturhistorischen Museums. Hamburg, Jahrb. wiss. Anst., **23**, 1905, Beih. 2, 1906, (117-186).

Böving, Adam Giede. Bidrag til Kundskaben om Donaciinlarvernes Naturhistorie. [On the structure and life history of the larval stages of the *Donaciinae*.] Dr. Disp. Kjöbenhavn, (x 9720 j)

(H. Hagerups Forlag), 1906, (viii + 263, with 7 pl.). 26 x 18. 10 Kr. [*Coleoptera.*]

Bogdanow, E. A. Ueber das Züchten der Larven der gewöhnlichen Fleischfliege (*Calliphora vomitoria*) in sterilisierten Nahrungsmitteln. Arch. ges. Physiol., Bonn, **113**, 1906, (97-105). [*Diptera.*]

Bohatschek, Leopold. Beitrag zur Zucht der *Catocala*. Ent. Zs., Guben, **19**, 1906, (216-217). [*Lepidoptera.*]

Bohm, E. Allerlei neues aus dem Leben der Bienen. Leipziger Bienenztg, **21**, 1906, (130-133, 149-150). [*Hymenoptera.*]

Bohn, Georges. Sur le phototropisme de l'*Acanthia lectularia* Fabr. Paris, C.-R. soc. biol., **60**, 1906, (520-521). [*Hemiptera.*]

Boileau, H. 1. Descriptions de Coléoptères nouveaux. Naturaliste, Paris, **28**, 1906, (92, 93).

(Boileau, H. 2. Description d'un *Dorcus* nouveau. Paris, Bul. soc. ent., **1904**, (27-28). [1831-1827 cf.]

(Boileau, H. 3. Description d'un *Dorcide* nouveau. Paris, Bul. soc. ent., **1904**, (39-40). [1831].)

(Boileau, H. 4. Description de Coléoptères nouveaux. Naturaliste, Paris, (sér. 2), **27**, 1905, (17-18, 47-48, 60-61). [1831].)

(Boileau, H. 5. Descriptions de Coléoptères nouveaux. Naturaliste, Paris, **27**, 1905, (176-177, 200-202, 285-286). [1831].)

Bolasco, Guido. Caccia all'*Agrypnus notodonta* Latr. Naturalista sicil., Palermo, **18**, 1906, (258-260). [*Coleoptera.*]

Bolí, K. G. Beitrag zur Kasuistik der tierischen Parasiten. (Russ.) Kazan', Zap. Veterin. Inst., **21**, 1904, (378-381). [*Diptera.*]

Bolívar, Ignacio. 1. Faggonuríleos de la Guinea española. Madrid, Mem. Soc. esp. Hist. nat., **1**, 1906, (327-377, pl. x). [*Orthoptera.*]

Bolívar, I. 2. El género *Tetraconcha* Karsch. [The genus *Tetraconcha* Karsch.] Madrid, Bol. Soc. esp. Hist. nat., **6**, (231-235). [*Orthoptera.*]

Bolívar, I. 3. Rectificaciones y observaciones ortoapterológicas. [Ortho-

pterological corrections and observations.] Madrid, Bol. Soc. esp. Hist. Nat., **6**, (384-393).

Bolivar, I. *vide* Foureau.

Bonnier, Gaston. 1. Sur la division du travail chez les abeilles. Paris, C.-R. Acad. sci., **143**, 1906, (911-946). [*Hymenoptera*.]

Bonnier, G. 2. Les Abeilles n'exécutent-elles que des mouvements réflexes? Année Psychol., Paris, **12**, 1906, (25-33). [*Hymenoptera*.]

(**Bonnier, G.** 3. L'acoutumance des abeilles à la couleur des fleurs. Paris, C.-R. Acad. sci., **141**, 1905, (988-994). [4619 4631].)

Bordas, L. 1. Structures des caecums ou appendices filiformes de l'intestin moyen des Phyllies (*Phyllium erurifolium* Audin et Serville). Paris, C.-R. Acad. sci., **142**, 1906, (649, 650).

Bordas, L. 2. Anatomie et structure histologique des glandes mandibulaires des *Mantidae* (*Mantis religiosa* L.). Paris, C.-R. soc. biol., **60**, 1906, (437-439, av. fig.); Réunion biologique de Marseille, **1906**, (3-5). [*Orthoptera*.]

Bordas, L. 3. Anatomie des glandes salivaires des Mantes (*Mantis religiosa* L.). Rennes, Bul. soc. sci. méd., **15**, 1906, (64-68). [*Orthoptera*.]

Bordas, L. 4. Les appendices glandulaires de l'intestin moyen des Phyllies (*Phyllium erurifolium* Audinet Serville). Paris, C.-R. soc. biol., **60**, 1906, (439-441); Réunion biologique de Marseille, **1906**, (5-7). [*Phasmidae*.]

Bordas, L. 5. L'ampoule rectale des *Dytiscidae*. Paris, C.-R. soc. biol., **61**, 1906, (503-505); Réunion biologique de Marseille, **1906**, (53-55). [*Coleoptera*.]

Bordas, L. 6. Morphologie de l'appareil digestif de la larve d'*Anthonomie* (*Anthonomus pomorum* L.). Paris, C.-R. soc. biol., **60**, 1905, (1163-1164); Réunion biologique de Marseille, **1906**, (49-50). [*Coleoptera*.]

Bordas, L. 7. Système nerveux sous-intestinal des Phyllies (*Phyllium erurifolium* Audin et Serville). Rennes, Bul. soc. sci. méd., **15**, 1906, (98-100).

Bordas, L. 8. L'intestin antérieur (jabot et gésier) de la *Xylocopa*. (*Xylocopa violacea*). Rennes, Bul. soc. sci.

med., **14**, 1905, (233-250); Trav. Univ., Rennes, **4**, (303-319). [*Hymenoptera*.]

Borelli, Alfredo. 1. Di alcune *Forficole* dell'isola di Madeira. Torino, Boll. Musei zool. anat., **21**, No. 520, 1906, (1-3). [*Orthoptera*.]

Borelli, A. 2. Di una nuova sp. di *Forficola* (*Ancistrogaster festae*) dell'Ecuador. Torino, Boll. Musei zool. anat., **21**, No. 528, 1906, (1-3). [*Orthoptera*.]

Borelli, A. 3. *Forficole* di Costa Rica. Torino, Boll. Musei zool. anat., **21**, No. 531, 1906, (1-19). [*Orthoptera*.]

Borelli, A. 4. Di una nuova specie di *Forficola* del Madagascar (*Chaetospinia pittarellii* n. sp.). Torino, Boll. Musei zool. anat., **21**, No. 533, 1906, (1-2). [*Orthoptera*.]

Borelli, A. 5. Spedizione al Ruwenzori di S. A. Luigi di Savoia. Nuove specie di *Forficole*. Torino, Boll. Musei zool. anat., **21**, No. 541, 1906, (1-5). [*Orthoptera*.]

(**Borelli, A.** 6. Sur quelques *Forficules* des Pyrénées. Feuille jeunes natural., Paris, sér. 4, **35**, 1905, (49-51, av. fig.). [3831 3827 df].)

Born, Paul. 1. *Carabus splendens* Fabr. und seine Formen. Insektenbörse, Leipzig, **23**, 1906, (3-4). [*Coleoptera*.]

Born, P. 2. Weitere Erörterungen über *Carabus monilis* und seine Formen. Insektenbörse, Leipzig, **23**, 1906, (151-152, 156, 158-159). [*Coleoptera*.]

Born, P. 3. Ueber einige *Carabus*-Formen aus Calabrien. Insektenbörse, Leipzig, **23**, 1906, (203-204, 207). [*Coleoptera*.]

Born, P. 4. Die *Carabenfauna* des Monte Generoso. Locarno, Boll. Soc. Tic. Sci. Nat., **2**, 1906, (100-110). [*Coleoptera*.]

Born, Paul v. Dombrowski, Ernst von. Borre, Alfred Preudhomme de. Obituary; *vide* Lameere, Aug.

Botto, Guido. 1. Sulla *Chaleophora detrita* Klug. Riv. Coleopter. ital., Camerino, **4**, 1906, (73-74). [*Coleoptera*.]

Botto, G. 2. Aggiunte al catalogo Bertolini. Riv. Coleopter. ital., Camerino, **4**, 1906, (74-75). [*Coleoptera*.]

- Boucomont, A. 1.** Catalogue provisoire des *Geotrupidae*. Cosne, 1906, 8vo, (1-44). [*Coleoptera*.]
- (Boucomont, A. 2.** Description d'une espèce nouvelle de *Bolboceras*. Paris, Bul. soc. ent., **1903**, (260-261). [4831 4827 hi].)
- (Boucomont, A. 3.** Etude sur les *Enoplotrupes* et *Geotrupes* d'Asie. Rev. ent., Caen, **23**, 1904, (209-252). [4827 e 4831].)
- Boucomont, A. 4.** Description d'un *Bolboceras* nouveau. D. ent. Zs., Berlin, **1906**, (452). [*Coleoptera*.]
- Bourgeois, J. 1.** Contribution à l'étude des métamorphoses de l'*Herpes porcellus* Lacord. Paris, Bul. soc. ent., **1906**, (94-95). [*Coleoptera*.]
- Bourgeois, J. 2.** Sur le *Celiasis mirabilis* Lacord. (Note synonymique.) Paris, Bul. soc. ent., **1906**, (95-97). [*Coleoptera*.]
- Bourgeois, J. 3.** Description d'une nouvelle espèce algérienne du sous-genre *Absidia*. Paris, Bul. soc. ent., **1906**, (97-98). [*Coleoptera*.]
- Bourgeois, J. 4.** Les *Lycides* du Sarawak Muséum (Bornéo). Paris, Ann. soc. ent., **75**, 1906, (184-194). [*Coleoptera*.]
- Bourgeois, J. 5.** *Lycides* [Mission du Bourg de Bozas en Afrique, 1903]. Bul. Muséum, Paris, **1906**, (193-196). [*Coleoptera*.]
- (Bourgeois, J. 6.** Description d'une nouvelle espèce de *Malthodes* de la faune française. Paris, Bul. soc. ent., **1903**, (247-248, av. fig.). [4831 4827 df].)
- (Bourgeois, J. 7.** Description d'une nouvelle espèce européenne du genre *Malthodes*. Paris, Bul. soc. ent., **1903**, (336-337, av. fig.). [4831 4827 dh].)
- (Bourgeois, J. 8.** Sur le cosmopolitisme de l'*Acanthocnemus ciliatus* Perris, Coléoptère de la tribu des *Dasytides*. Paris, Bul. soc. ent., **1904**, (25-26). [4831 4827].)
- (Bourgeois, J. 9.** Description d'une nouvelle espèce de *Malthodes* de la faune française. Paris, Bul. soc. ent., **1905**, (21-23, av. fig.). [4831 4827 df].)
- (Bourgeois, J. 10.** Description d'un nouveau Malacoderme d'Algérie appartenant au sous-genre *Absidia*. Paris, Bul. (x-9720 j)
- soc. ent., **1905**, (106-108). [4831 4827 fa].)
- (Bourgeois, J. 11.** *Malthodes* et *Podistrina* (2^e note). Paris, Bul. soc. ent., **1905**, (238-241). [4831 4823].)
- (Bourgeois, J. 12.** Description d'une nouvelle espèce de *Lycide* de la faune barbaresque. Paris, Bul. soc. ent., **1905**, (291-292). [4831 4827 fa].)
- (Bourgeois, J. 13.** Les *Lycides* du Muséum d'Histoire naturelle de Paris (II. *Calopteron* et genres voisins). Paris, Ann. soc. ent., **74**, 1905, (109-126). [4831 4827 g h].)
- (Bourgeois, J. 14.** Voyage du Dr. W. Horn à Ceylan (Malacodermes et Ly-mexylonides). Paris, Ann. soc. ent., **74**, 1905, (127-133). [4831 4827 ef].)
- (Bourgeois, J. 15.** Voyage de M. Maurice Maindron dans l'Inde méridionale, mai à novembre 1901. Dascillides et Malacodermes. Paris, Ann. soc. ent., **72**, 1903, [1904]. (478-483). [4831 4827 ef].)
- (Bourgeois, J. 16.** Coléoptères (Cebriionides Rhipidocerides, Dascillides, Malacodermides). Mission Pavie, **3**, 1904, (96-104).)
- Bouvet, G.** Invasion de *Diachromus*, *Pecilus* et *Amara* à Angers. Feuille jeunes natural., Paris, sér. 4, **36**, 1906, [1905], (13). [*Coleoptera*.]
- Bouvier, [E. L.] 1.** Observations biologiques (sur *Hemimerus talpoides*). Paris, Bul. soc. ent., **1906**, (170-171). [*Orthoptera*.]
- Bouvier, E. L. 2.** La nidification des Abeilles à l'air libre. Paris, C.-R. Acad. sci., **142**, 1906, (1015-1020). [*Hymenoptera*.]
- Bouvier, E. L. 3.** Nouvelles observations sur la nidification des Abeilles à l'air libre. Paris, Ann. soc. ent., **75**, 1906, (429-444, pls. xviii-xx). [*Hymenoptera*.]
- Bouvier, E. L. 4.** Récolte et conservation des *Diptères*, particulièrement des espèces qui piquent pour sucer le sang. Ann. Inst. Pasteur, Paris, **20**, 1906, (547-563).
- Bouvier, Giard et Laveran.** Mission d'études de la maladie du sommeil. I. Organisation de la mission.—II. Instructions pour les recherches à effectuer au Congo Français, par la mission

française de la maladie du sommeil. (Publié par l'Association scientifique internationale d'Agronomie coloniale.) Paris (F. Levé), 1906, (20), 24^{cm}, 5; et Ann. Hyg. colon., Paris, 10, 1907, (94-111).

Bovie, Albert. Catalogue des *Curculionides* de Belgique. Bruxelles, Ann. Soc. ent. Belgique, 50, 1906, (59-93). [*Coleoptera*.]

Bowhill, Thomas. Note on haematozoa observed in a bat and the occurrence of *Acanthia pipistrelli* Jenyns in South Africa. J. Hygiene, London, 6, 1906, (246, 247). [*Hemiptera*.]

[Boycott, A. E. and others.] 1. Reports on plague investigations in India. I. Experiments on the transmission of plague by fleas. J. Hygiene, London, 6, 1906, (125-482).

[Boycott, A. E. and others.] 2. Reports on plague investigations in India. III. The physiological anatomy of the mouth-parts and alimentary canal of the Indian rat flea, *Pulex cheopis*, Rothschild. J. Hygiene, London, 6, 1906, (486-495 pl. ix).

Bradley, J. Chester. Contributions to the entomology of the Selkirk mountains of British Columbia. I. Introductory. Canad. Entomol., 38, 1906, (377-380). [*Hymenoptera*.]

Brancsik, Károly. Enumeratio *Coleopterorum* in Comitatu Trencsiniensi adhuc inventorum. Trencsén m. term. társ. évk., Trencsén, 27-28, [1904-1905], 1906, (9-116).

Bräunlich, Otto. *Deilephila gallii* Rott. Ent. Zs., Guben, 20, 1906, (110-111). [*Lepidoptera*.]

Brauns, H. Zur Kenntnis der süd-afrikanischen *Hymenopteren* II. Wien, Verh. ZoolBot. Ges., 1906, (43-59).

Bredden, G. 1. Neue Beiträge zur Kenntnis von *Colpura* Bergr. und verwandter *Rhynchoten*. Bruxelles, Ann. Soc. ent. Belgique, 50, 1906, (47-58).

Bredden, G. 2. Ueber *Dieuches uniguttatus* auct. (*Rhynchota*). Stettiner ent. Ztg., 67, 1906, (321-331).

Bredden, G. 3. *Rhynchotographische* Beiträge. Zweites Stück. III. Entomol. Ztg., Wien, 25, 1906, (188-200).

Bredden, G. 4. *Rhynchotographische* Beiträge. Drittes Stück. Entomol. Ztg., Wien, 25, 1906, (245-246).

Bredden, G. 5. Die *Hemipteren* von Celebes. Ein Beitrag zur Faunistik der Insel. Halle, Abh. natf. Ges., 24, 1901-1906, (1-215, 1 Taf.).

(Bredden, G. 6. Ueber die *Rhynchoten*-Gattung *Curupira* Dist. Entomol. Ztg., Wien, 22, 1903, (243-247). [4031].)

(Bredden, G. 7. Eine neue *Velocipeda*-Art. Entomol. Ztg., Wien, 22, 1903, (248). [1031].)

(Bredden, G. 8. Noch einiges über *Colobasiastes* Bredd. (*Rhynchota heteroptera*). Entomol. Ztg., Wien, 23, 1904, (245-250). [4007 4031].)

(Brenske, E. Coléoptères (Melolonthides). Mission Pavie, 3, 1904, (90-92).)

Brèthes, J. 1. Nuevos Euménidos argentinos. [New Argentine *Eumenidae*.] An. Mus. Nac., Buenos Aires, Ser. 3, 6, 1906, (21-39). [*Hymenoptera*.]

Brèthes, J. 2. *Sarcophaga caridei* una nueva mosca langosticida. [*Sarcophaga caridei*, a new locusticide fly.] An. Mus. Buenos Aires, Ser. 3, 6, (297-301). [*Diptera*.]

Brèthes, J. 3. Véspidos y Eumenídeos sudamericanos. (Nuevo suplemento.) [South American *Vespidae* and *Eumenidae*.] An. Mus. Nac., Buenos Aires, Ser. 3, 6, 1906, (311-377). [*Hymenoptera*.]

Bretschneider, J. B. R. Mitteilungen über eine Zucht von *Lemonia dumi* L. Ent. Zs., Guben, 19, 1906, (197-199).—Weiteres darüber v. Arthur Fritzsche, Op. cit. 20, 1906, (3-4), u. F. Hoffmann, T.c. (28-29). [*Lepidoptera*.]

Bridwell, John C. A second species of the *Hymenopterous* genus *Odontophyes* Konow (*Xyelinae*). Ent. News, Philadelphia, Pa., 17, 1906, (94).

Briggs, Charles Adolphus. The recent *Neuroptera* of Devonshire. Plymouth, Trans. Devon. Ass., 38, 1906, (357-369).

Brimley, C. S. 1. Notes on the *Odonata* and other insects of Lake Ellis, North Carolina. Ent. News, Philadelphia, Pa., 17, 1906, (81-85).

Brimley, C. S. 2. North Carolina records of *Odonata* in 1904 and 1905, with corrections of some previous re-

cords. Ent. News, Philadelphia, Pa., **17**, 1906, (91-92).

Britton, W. E. 1. The maple leaf-stem borer or sawfly. A new enemy of the sugar maple. Ent. News, Philadelphia, **17**, 1906, (313-321, pl. xiv). [*Hymenoptera*.]

Britton, W. E. 2. Some new or little known *Aleyrodidae* from Connecticut. II. Ent. News, Philadelphia, Pa., **17**, 1906, (127-130). [*Homoptera*.]

Britton, W. E. 3. Fifth report of the State entomologist. Agric. exp. Sta., Connecticut Rep. 1905, part iv, (189-262, pls. i-xii).

(**Britton, W. E. 4.** Some new or little known *Aleyrodidae* from Connecticut. I. Ent. News, Philadelphia, Pa., **16**, 1905, (65-67, with pl.). [4027 99 4031].)

(**Brongniard, Ch.** Coléoptères (Cerambycides). Mission Pavie, **3**, 1904, (130-145).)

Brooke, Justin vide Cox, G. Lissaut.

Brooks, Fred E. The grape *Cureulio*. [*Craponius inaequalis*]. Agric. Exp. Sta., West Virginia, Morgantown, Bull., No. **100**, 1906, (213-249, pl.). [*Coleoptera*.]

Brown, T. 1. Descriptions of three species of fruit flies. New Zealand, Dept. Agric. Div. Biol. Hort. Bull., No. **4**, 1905, (1-6, 1 pl.). [*Diptera*.]

Brown, T. 2. Notes on Termites commonly termed "white ants," with special reference to the destruction of timber by *Caloterme browni*. New Zealand, Dep. Agric. Biol. Hort. Techn. pap. No. **1**, 1905, (5-11, 2 pls.).

Brown, Robert E. 1. A catalogue of Philippine *Hymenoptera*, with descriptions of new species. Philippine J. Sci., Manila, **1**, 1906, (683-695).

Brown, R. E. 3. Strychnine as food of *Araeocerus fascicularis* De Geer. New York, N.Y., J. Ent. Soc., **14**, 1906, (116). [*Coleoptera*.]

Brown, R. Les *Nepticula*. Bordeaux, Actes Soc. lim., **61**, 1906, (7-15). [*Lepidoptera*.]

Browne, Frank Balfour. 1. A comparison of *Agabus affinis*, Payk., with *unguicularis*, Thoms. Ent. Rec., London, **18**, 1906, (273-275, pls. xii, xiii). [*Coleoptera*.]

Browne, F. B. 2. A study of the aquatic *Coleoptera* and their surroundings in the Norfolk Broads district. (Second paper.) Norwich, Trans. Nat. Soc., **8**, 1906, (290-307).

Bruce, David. Sleeping sickness in Uganda. London, Proc. R. Inst., **17**, 1906, (512-518). [*Diptera*.]

Bruch, Carlos. 1. Le nid de l'*Ennemus caniculata* (Oliv.) Sauss. (guêpe solitaire) et observations sur deux de ses parasites. Rev. Mus. La Plata, **11**, 1904, (223-226, 1 pl.). [*Hymenoptera*.]

Bruch, C. 2. Metamórfosis y biología de *Coleópteros* argentinos. [Metamorphosis and biology of Argentine *Coleoptera*.] I. *Plagioder erythroptera*, *Calligrapha polyspila*, *Chalepus medius*. Rev. Mus. La Plata, **11**, 1904, (317-323, pls. i-iii.)

Brüning, Chr. Blindschleiche und Waldameisen. Wochenschr. Aquarienkunde, Braunschweig, **3**, 1906, (542-544). [*Hymenoptera*.]

Brünnich, K. Einige Beobachtungen bei der Königinnzucht. Leipziger Bienenztg., **21**, 1906, (3-5).—Bemerkung dazu v. H. **Mulot**, T.c. (99-100), u. Erwiderung d. Verf., (115-116). [*Hymenoptera*.]

Brues, Charles T[omas]. 1. A new subapterous *Eucryptid*. Ent. News, Philadelphia, Pa., **17**, 1906, (61-62, with text fig.). [*Hymenoptera*.]

Brues, C. T. 2. Fossil parasitic and phytophagous *Hymenoptera* from Florissant, Colorado. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, 1906, (491-498).

Brues, C. T. 3. Descriptions of parasitic *Hymenoptera* from Cape Colony. Milwaukee, Bull. Wis. Nat. Hist. Soc., N. Ser., **4**, 1906, (103-112, pl.).

Brues, C. T. 4. Notes and descriptions of North American parasitic *Hymenoptera* 2. Milwaukee, Bull. Wis. Nat. Hist. Soc., N. Ser., **4**, 1906, (143-152).

Brues, C. T. 5. Notes on the life history of the *Stylopidae*. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **8**, 1905, (290-295).

Brues, C. T. 6. *Diptera*. Fam. *Phoridae*. in Wytsman Genera insectorum **44^{me}** fascie. (1-20, 2 pls.).

Brues, C. T. 7. Two new species of *Phoridae*. Milwaukee, Bull. Wis. Nat. Hist. Soc., N. Ser., **4**, 1906, (100-102). [*Diptera*.]

Brues, C. T. vide Melander, A. L.

[**Brusch, D.**] Брушъ, Д. О способѣ получения по одному искусственному рою съ двухъ семей. [Ueber ein Mittel von zwei Bienenvölkern je einen künstlichen Schwarm zu erhalten.] Russ. pčelovod. listok, St. Petersburg, **19**, 1904, (395-396). [*Hymenoptera*.]

Brunelli, G. Sulla distruzione degli oociti nelle regine dei Termitidi infette da Protozoi ed altre ricerche sull'ovario degli Insetti. Roma, Rend. Acc. Lincei, Ser. 5, **15**, 1° Sem., 1906, (55-62).

Bruner, L. 1. *Orthoptera*. Biol. Centr.-Amer., London, Orthopt. **2**, (177-208).

Bruner, L. 2. Report on the *Orthoptera* of Trinidad, West Indies. New York, N.Y., J. Ent. Soc., **14**, 1906, (135-165).

Bruner, L. 3. Synoptic list of Paraguayan *Aerididae*, or locusts, with descriptions of new forms. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, No. 1461, 1906, (613-694, pl.). [*Orthoptera*.]

Bruner, L. 4. Some Guatemalan *Orthoptera*, with descriptions of five new species. Ohio Nat., Columbus, Ohio, **7**, 1906, (9-13).

[**Bruner, L. 5.** Two new South American grasshoppers. Ent. News, Philadelphia, Pa., **16**, 1905, (214-216). [3827 h 3831].]

[**Bruner, L. 6.** Two remarkable new Costa Rican locusts. Ent. News, Philadelphia, Pa., **16**, 1905, (313-316). [3827 hb 3831].]

Brunner von Wattenwyl, C. *Phasmidae*. Nova Guinea, Résultats de l'Expédition scientifique Néerlandaise à la Nouvelle-Guinée en 1903, sous les auspices de Arthur Wichmann, Chef de l'Expédition, Leide (E. J. Brill), **5**, Livr. 1, 1906, (13-15). [*Orthoptera*.]

Brunner v. Wattenwyl, C. und Redtenbacher, Jos. Die Insektenfamilie der Phasmiden. Lfg 1: Phasmidae areolatae (bearb. v. J. Redtenbacher). Leipzig (W. Engelmann),

1906, (1-180, 6 Taf.). 36 cm. 17 M. [*Orthoptera*.]

[**Bruyant, C.** Buprestide fossile des lignites de Ménat. Rev. sci. Bourbon., Moulins, **1902**, (63-65, av. 1 fig.). [1827 df].)]

Bryan, G. H. Baron C. R. von der Osten Sacken. Nature, London, **74**, (180).

Bryan, Wm. Alanson. A monograph of Marcus island. An account of its physical features and geology, with descriptions of the fauna and flora. Honolulu, H.I., Occ. Paprs. Bernice Pauahi Bishop Mus., **2**, 1903, (77-139). [*Insecta* (417).]

Buchner, P. Ueber den Wert des Spiralbaues bei einigen *Trichopteren*-larven. (Vorl. Mitt.) Zs. wiss. Insektenbiol., Husum, **2**, 1906, (358-359).

Bueno, J. R. de la Torre. 1. Life-histories of North-American water-bugs. I. Canad. Entomol., **38**, 1906, (189-197) ii. T.c. (242-252). [*Hemiptera*.]

Bueno, J. R. de la T. 2. The cryptocerate *Hemiptera* of America in the writings of Professor Arnold L. Montandon. Washington, D.C., Proc. Ent. Soc., **8**, 1906, (45-58).

Bueno, J. R. de la T. 3. Ways of progression in water bugs. Ent. News, Philadelphia, Pa., **17**, 1906, (1-4). [*Hemiptera*.]

Bueno, J. R. de la T. 4. On some aquatic *Hemiptera* from Costa Rica, Central America. Ent. News, Philadelphia, Pa., **17**, 1906, (54-57).

Bugnion, E. 1. La polyembryonie et le déterminisme sexuel. Résumé des observations de P. Marchal. Lausanne, Bul. Soc. Sci. Nat., **42**, 1906, (95-112).

Bugnion, E. 2. Les oeufs pédiculés du *Cynips tozae* et du *Synergus reinhardi*. Lausanne, Bul. Soc. Sci. Nat., **42**, 1906, (185-196). [*Hymenoptera*.]

Bugnion, E. 3. Les oeufs pédiculés du *Cynips tozae* Bosc., (*argentea* Hart.). Arch. sci. phys., Genève, **21**, 1906, (536-539). [*Hymenoptera*.]

Bugnion, E. 4. L'estomac de *Xylocopa violacea*. C.-R. Ass. anat., 6^e session, Toulouse. Nancy, **1904**, (24-37, pl.). [*Hymenoptera*.]

[**Bugnion, E. 5.** Les oeufs pédiculés du *Rhyssa persuasoria*. Paris,

Bul. Soc. ent., **1904**, (80-83). [1631-4615].)

Burgeff, Hans. Ueber einige neue oder wenig bekannte Zygaenenformen. Ent. Zs., Guben, **20**, 1906, (153-154, 161-163). [*Lepidoptera*.]

Burgess, A[lbert] F[ranklin]. A preliminary report on the mosquitoes of Ohio. Ohio Nat., Columbus, Ohio, **6**, 1906, (438-440). [*Diptera*.]

Burkill, J[saac] H[enry]. Notes on the pollination of flowers in India. Note 3. Habits of *Bombus haemorrhoidalis* in N.W. Himalaya. Calcutta, J. As. Soc. Beng., **2**, 1906, (521-525). [*Hymenoptera*.]

Burr, Malcolm. **1.** Note on the genus *Neolobophora* Scudder. Ent. Mag., London, **42**, 1906, (112-114). [*Orthoptera*.]

Burr, M. **2.** Dermápteros de la Guinea española. [Dermaptera of Spanish Guinea.] Madrid, Mem. Soc. esp. Hist. Nat., **1**, 1906, (293-295). [*Orthoptera*.]

Burr, M. **3.** Synopsis of the *Orthoptera* of Western Europe (continued). Ent. Rec., London, **18**, 1906, (9-11 etc. etc.).

Burr, M. **4.** On a few *Orthoptera* collected in Southern Dalmatia and Montenegro in 1900. Entomologist, London, **39**, 1906, (169-172).

Burr, M. **5.** *Dermatoptera*. Nova Guinea, Résultats de l'Expédition scientifique Néerlandaise à la Nouvelle-Guinée en 1903, sous les auspices de Arthur Wichmann, Chef de l'Expédition, Leide (E. J. Brill), **5**, Livr. I, 1906, (9-10).

Burr, M. **6.** A further note on earwigs (*Dermaptera*) in the Indian Museum; with the description of a new species. Calcutta, J. As. Soc. Beng., **2**, 1906, (387-390).

Burrows, C. R. N. *Orgyia gonostigma*. London, Trans. City Nat. Hist. Soc., **1905**, (53-58). [*Lepidoptera*.]

Busck, August. **1.** New American *Tineina*. Canad. Entomol., **38**, 1906, (121-124). [*Lepidoptera*.]

Busck, A. **2.** A new Tortricid from Texas. Canad. Entomol., **38**, 1906, (211). [*Lepidoptera*.]

Busck, A. **3.** A new injurious pine-needle moth. Canad. Entomol., **38**, 1906, (212). [*Lepidoptera*.]

Busck, A. **4.** On Dr. Wm. Dietz's revision of the *Tineidae* (Heinemann). Canad. Entomol., **38**, 1906, (345-348). [*Lepidoptera*.]

Busck, A. **5.** A review of the American moths of the genus *Cosmopteryx* Hubner. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, No. 1463, 1906, (707-713). [*Lepidoptera*.]

Busck, A. **6.** Tineid moths from southern Texas, with descriptions of new species. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, No. 1465, 1906, (721-736). [*Lepidoptera*.]

Busck, A. **7.** Description of American moths of the genus *Cerostoma*. Ent. News, Philadelphia, Pa., **17**, 1906, (96-99). [*Lepidoptera*.]

Busck, A. **8.** Notes on some *Tortricid* genera. Ent. News, Philadelphia, Pa., **17**, 1906, (305). [*Lepidoptera*.]

Busck, A. **9.** Notes on some *Tortricid* genera with descriptions of new American species. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (173-182). [*Lepidoptera*.]

Bush, Lucy Peck vide Handlirsch, Anton.

Busigny, E. Le régime alimentaire de l'Anobie du pain. Naturaliste, Paris, **28**, 1906, (46). [*Coleoptera*.]

Busse, R. *Lithostege farinata* Hufn. Ent. Zs., Guben, **20**, 1906, (27-28). [*Lepidoptera*.]

[**Butkevič**, A. S.] БУТКЕВИЧЪ, А. С. Къ вопросу объ улучшенію породы пчелъ. [Zur Frage über die Verbesserung der Bienenrasse] Russ. pčelovod. listok, St. Peterburg, **21**, 1906, (47-51, 73-74, 113-115). [*Hymenoptera*.]

Butler, Edward A. The *Hemiptera* of the Hastings district. Part I. *Heteroptera*. Hastings Nat., **1**, 1906, (23-37).

Buttel-Reepen, H. v. [and **Gerstaecker**, A., the late, quem vide]. Apistica. Beiträge zur Systematik, Biologie, sowie zur geschichtlichen und geographischen Verbreitung der Honigbiene (*Apis mellifica* L.), ihrer Varietäten und der übrigen *Apis*-Arten. Berlin, Mitt. zool. Mus., **3**, 1906, (117-202). [*Hymenoptera*.]

(Buysson, H. du. 1. Notes sur quelques Elatérides et description de deux espèces nouvelles. Rev. ent., Caen, 23, 1904, (-8). [4831].)

(Buysson, H. du. 2. Description d'un *Agriotes* nouveaux. Rev. ent., Caen, 23, 1904, (42). [4831].)

Buysson, R. du. 1. Voyage de M. A. C. Jensen-Haarup dans la région de Mendoza. Hyménoptères. Kjöbenhavn, Ent. Med., Sér. 2, 3, 1906, (17-20).

Buysson, R. du. 2. Note Hyménoptérologique [*Chrysididae*]. Napoli, Annuario Museo. Zool., N. Ser., 2, N. 2, 1905, (1-2).

(Buysson, R. du. 3. Espèces nouvelles d'Hyménoptères. Paris, Bul. soc. ent., 1904, (141-146). [4631 4627 fg kh hi].)

(Buysson, R. du. 4. Sur quelques Hyménoptères d'Amérique. Paris, Bul. soc. ent., 1905, (9-11). [4627 f g + h 4631].)

(Buysson, R. du. 5. Espèce nouvelle de Vespide. Paris, Bul. soc. ent., 1905, (126-127). [4631].)

(Buysson, R. du. 6. Chrysidides recueillis par M. G. A. Baer dans l'Amérique du Sud. Paris, Bul. soc. ent., 1903, (311). [4631 4627 hi].)

(Buysson, R. du. 7. Description d'Hyménoptères nouveaux (deuxième note). Paris, Bul. soc. ent., 1905, (281-282). [4631].)

(Buysson, R. du. 8. Description d'Hyménoptères nouveaux. Paris, Bul. soc. ent., 1905, (256-257). [4631].)

(Buysson, R. du. 9. Monographie des guêpes ou *Vespa*. Paris, Ann. soc. ent., 73, 1904, [1905], (485-556, 565-634, and pl.). [4631 4627].)

(Buysson, R. du. 10. Monographie des Vespides du genre *Nectarina*. Paris, Ann. soc. ent., 74, 1905, (537-566, a. pl.). [4631 4619].)

(Buysson, R. du. 11. Contribution aux Chrysidides du globe (5^e série). Rev. ent., Caen, 23, 1904, (258-275). [4631].)

Buysson, R. du *ride* Saussure, H. de.

Buysson *ride etiam* du Buysson.

Calamida, Umberto. Miasa delle fosse nasali [per *Sarcophaga carnaria*].

Torino, Giorn. Acc. med., 66, 1903, (593-595). [*Diptera*.]

Calmbach, Viktor. Empfindungsvermögen der Schmetterlinge. Ent. Zs., Guben, 20, 1906, (203-204). [*Lepidoptera*.]

Calvert, P. P. 1. *Odonata*. Biol. Centr.-Amer. London, Neuroptera, (213 308, pl. ix).

[Calvert, P. P. 2. Fauna of New England 6. List of the *Odonata*. Boston, Mass., Occ. Paprs., Nat. Hist. Soc., 7, 1905, (43).]

Calvert, P. P. 3. Nomenclature of certain North American *Odonata*. Ent. News, Philadelphia, Pa., 17, 1906, (30-31).

Calvert, P. P. *ride* Williamson E. B.

Cameron, P. 1. Description of a new species of *Odynerus* from the Cape de Verde islands. Entomologist, London, 39, 1906, (13). [*Hymenoptera*.]

Cameron, P. 2. Description of a new species of *Ichneumonidae* from Cape Colony. Entomologist, London, 39, 1906, (18). [*Hymenoptera*.]

Cameron, P. 3. Descriptions of two new species of *Braconidae* from Australia. Entomologist, London, 39, 1906, (26). [*Hymenoptera*.]

Cameron, P. 4. Description of a new *Gabunia* (*Ichneumonidae*) from Natal. Entomologist, London, 39, 1906, (30). [*Hymenoptera*.]

Cameron, P. 5. Description of a new species of *Odynerus* (*Leionotus*) from Australia. Entomologist, London, 39, 1906, (78). [*Hymenoptera*.]

Cameron, P. 6. On two species of *Hymenoptera* from the Cape de Verde islands. Entomologist, London, 39, 1906, (83).

Cameron, P. 7. Descriptions of two new species of *Ichneumonidae* from Japan. Entomologist, London, 39, 1906, (98, 99). [*Hymenoptera*.]

Cameron, P. 8. On some neotropical *Vespidae*. Entomologist, London, 39, 1906, (151-153). [*Hymenoptera*.]

Cameron, P. 9. A new species of *Pseudagenia* from Australia. Entomologist, London, 39, 1906, (176). [*Hymenoptera*.]

Cameron, P. 10. A new genus and five new species of *Ichneumonidae* from Australia. *Entomologist*, London, **39**, 1906, (180-183). [*Hymenoptera*.]

Cameron, P. 11. A new genus of *Cryptinae* (*Ichneumonidae*) from Sumatra. *Entomologist*, London, **39**, 1906, (196, 167). [*Hymenoptera*.]

Cameron, P. 12. On some *Braconidae* from the Himalaya. *Entomologist*, London, **39**, 1906, (204-206). [*Hymenoptera*.]

Cameron, P. 13. On some new genera and species of Indian *Ichneumonidae*. *Entomologist*, London, **39**, 1906, (227-229, 249-252). [*Hymenoptera*.]

Cameron, P. 14. Description of a new species of *Odynerus* (*Vespidae*) from Vancouver's island. *Entomologist*, London, **39**, 1906, (268). [*Hymenoptera*.]

Cameron, P. 15. A fourth contribution to the knowledge of the *Hymenoptera* of Sarawak. Singapore, *J. Straits Asiat. Soc.*, **1906**, No. 46, (103-123).

Cameron, P. 16. A contribution towards a knowledge of the Nearctic *Odynerinae*. Philadelphia, Pa., *Trans. Amer. Ent. Soc.*, **32**, 1906, (325-334). [*Hymenoptera*.]

Cameron, P. 17. Description of a new species of *Odynerus* from north Mexico. Philadelphia, Pa., *Trans. Amer. Ent. Soc.*, **32**, 1906, (335). [*Hymenoptera*.]

Cameron, P. 18. Description of a new species of *Eumenes* from Panama. *Zs. Hymenopter.*, Teschendorf, **6**, 1906, (128). [*Hymenoptera*.]

Cameron, P. 19. Description of a new species of *Dryinus* from Cape Colony. *Zs. Hymenopter.*, Teschendorf, **6**, 1906, (158-159). [*Hymenoptera*.]

Cameron, P. 20. Description of a new species of *Lareiga* (*Ichneumonidae*), from the Himalayas. *Zs. Hymenopter.*, Teschendorf, **6**, 1906, (159-160). [*Hymenoptera*.]

Cameron, P. 21. A new genus and species of *Aphrastobraconini* from Borneo. *Zs. Hymenopter.*, Teschendorf, **6**, 1906, (287, 288). [*Hymenoptera*.]

Cameron, P. 22. Descriptions of new species of neotropical *Vespidae*.

Zs. Hymenopter., Teschendorf, **6**, 1906, (380-386). [*Hymenoptera*.]

Cameron, P. 23. On the *Tenthredinidae* and parasitic *Hymenoptera* collected in Baluchistan by Major C. G. Nurse. Part I. Bombay, *J. Nat. Hist. Soc.*, **17**, 1906, (89-107).

Cameron, P. 24. On the *Tenthredinidae* and parasitic *Hymenoptera* collected in Baluchistan. Part II. Bombay, *J. Nat. Hist. Soc.*, **17**, 1906, (274-288).

Cameron, P. 25. On the *Tenthredinidae* and Parasitic *Hymenoptera* collected in Kashmir. Bombay, *J. Nat. Hist. Soc.*, **17**, 1906, (289-292).

Cameron, P. 26. Descriptions of some new species of *Hymenoptera* from Pearston, Cape Colony. Cape Town, *Trans. S. Afric. Phil. Soc.*, **16**, pt. 4, 1906, (323-333).

Cameron, P. 27. On the *Hymenopterous* parasites of the mealie stalk-borer (*Sesamia fusca*, Hamps.). Cape Town, *Trans. S. Afric. Phil. Soc.*, **16**, pt. 4, 1906, (334-336).

Cameron, P. 28. On two species of *Ichneumonidae* parasitic on the codling moth in Cape Colony. Cape Town, *Trans. S. Afric. Phil. Soc.*, **16**, pt. 4, 1906, (337-339). [*Hymenoptera*.]

Cameron, P. 29. Descriptions of new species of parasitic *Hymenoptera*, chiefly in the collection of the South African Museum. Cape Town, *Ann. S. Afric. Mus.*, **5**, 1906, (17-186).

Cameron, P. 30. On the *Hymenoptera* of the Albany Museum, Graham's Town, Cape Colony. Graham's Town, *Rec. Albany Mus.*, **1**, pt. 4, 1906, (412-417).

Cameron, P. 31. *Hymenoptera* of the Dutch expedition to New Guinea in 1904 and 1905. Part I, *Thynnidae*, *Scoliidae*, *Pompilidae*, *Sphegidae*, *Vespidae*. 's Gravenhage, *Tijdschr. Ent.*, **49**, 1906, (215-233).

Cameron, P. 32. *Hymenoptera* I. [all Families, except *Apidae* and *Formicidae*]. Nova Guinea, *Résultats de l'Expédition scientifique Néerlandaise à la Nouvelle-Guinée en 1903*, sous les auspices de Arthur Wichmann, Chef de l'Expédition. Leide (E. J. Brill), **5**, Livr. I, 1906, (41-65).

Cameron, P. 33. Description of a new species of *Opius* from Ceylon. *Spolia Zeylan.*, Colombo, **3**, 1906, (210). [*Hymenoptera*.]

Campion, F. W. and Campion, H. 1. The dragonflies of Epping forest in 1905. *Entomologist*, London, **39**, 1906, (36, 37). [*Odonata*.]

Campion, F. W. and Campion, H. 2. The dragonflies of Epping forest in 1906. *Entomologist*, London, **39**, 1906, (277-283). [*Odonata*.]

(Cannaviello, Franco Enrico. Contribution à une monographie des Lépidoptères du genre *Deilephila*. *Misc. ent.*, Narbonne, **13**, 1905, (11-15, 21-25, 33-45, 52-64, 65-80, 105-119, 121-132, 137-148, 153-150). [4431 4423].)

Cano-Brusco, Umberto *vide* Fermi. Claudio.

Cardamati, Jean P. *vide* Pezopoulo, N[ik].

Carl, J. L'organe stridulateur des *Phyllophorae*. *Arch. Sci. phys.*, Genève, **23**, 1906, (406-407). [*Orthoptera*.]

Carlson, A. J. Comparative physiology of the Invertebrate Heart. V. The physiology of the Cardiac nerves in the Arthropods. *Amer. J. Physiol.*, Boston, Mass., **15**, 1906, (127-135). [*Insects* (130-135).]

Carpenter, F[rederic] W[alton] *vide* Castle, W. E.

Carpenter, George H. 1. Report on the marine *Hemiptera* (*Halobates*) collected by Prof. Herdman at Ceylon in 1902. London, R. Soc. Rep. Pearl Oyster V, (151-156, with pl.).

Carpenter, G. H. 2. A new cabbage-eating larva—*Psylliodes chrysocephala* (Linn.). *J. econ. Biol.*, London, **1**, 1906, (152-156, pl. xi). [*Coleoptera*.]

Carpenter, G. H. 3. On two new Irish species of *Collembola*. Dublin, *Sci. Proc. R. Soc.*, **11**, 1906, (39-42, pl. ii).

Carpenter, G. H. 4. Injurious insects and other animals observed in Ireland during the year 1905. Dublin, *Econ. Proc. R. Soc.*, **1**, 1906, (321-344, pls. xxvii-xxxi).

(Carret, A. 1. Description d'un Elatéride nouveau appartenant à la faune européenne. Paris, *Bul. soc. ent.*, **1904**, (170-173). [4831].)

(Carret, A. 2. Description d'un nouveau Carabide appartenant à la faune syrienne. Paris, *Bul. soc. ent.*, **1905**, (122-124). [4831].)

Carter, A. E. J. Rare *Diptera* in the Forth district. *Ann. Scot. Nat. Hist.*, Edinburgh, **1906**, (24, 25).

Carter, H. J. 1. Notes on the genus *Cardiothorax*: with descriptions of new species of Australian *Coleoptera*. Sydney, N.S.W., *Proc. Linn. Soc.*, **31**, 1906, (236-260, pl. xx).

Carter, H. J. 2. A beetle hunt on Mt. Kosciusko. The Australian Naturalist, Sydney, N.S.W., **1**, pt. II, 1906, (17-23). [*Coleoptera*.]

(Carter, H. J. 4. Descriptions of new species of Australian *Coleoptera*. I. Sydney, N.S.W., *Proc. Linn. Soc.*, **30**, 1905, (177-189). [4827 *ie* 4831].)

Cary, Merritt. On the diurnal *Lepidoptera* of the Athabaska and Mackenzie region, British America. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., *Proc.*, **31**, 1906, (425-457).

Casey, Tho[mas] L[incoln]. Observations on the staphylinid groups Aleocharinae and Xantholinini, chiefly of America. St. Louis, Mo., *Trans. Acad. Sci.*, **16**, 1906, (125-434). [*Coleoptera*.]

Castle, W. E. Interbreeding, crossbreeding and sterility in *Drosophila*. Science, New York, N.Y., **23**, 1906, (153). [*Diptera*.]

Castle, W[illiam] E[rnest], Carpenter, F[rederic] W[alton], Clark, A[ustin] H[erbert], Mast, S. O. and Barrows, W. M. The effects of inbreeding, crossbreeding, and selection upon the fertility and variability of *Drosophila*. [Cont. Mus. Comp. Zool., Harvard Coll., No. 177]. Boston, Mass., *Proc. Amer. Acad. Arts Sci.*, **41**, 1906, (729-786).

Cattle, C. H. 1. A case in which insect larvae were passed per anum. *Brit. Med. J.*, London, **1906**, 2, (1748, 1749).

Cattle, C. H. 2. A case in which large quantities of Dipterous larvae were passed per anum. *Brit. Med. J.*, London, **1906**, 2, (77).

Caudell, Andrew Nelson. 1. The *Locustidae* and *Gryllidae* (katydids and crickets) collected by W. T. Foster in Paraguay. Washington, D.C., Smithson-

ian Inst., U. S. Nation. Mus., Proc., **30**, No. 1450, 1906, (235-244). [*Orthoptera*].

Caudell, A. N. 2. A new roach from the Philippines. *Canad. Entomol.*, **38**, 1906, (136). [*Orthoptera*].

Caudell, A. N. 3. The *Cryptophylli* of the United States. New York, N.Y., *J. Ent. Soc.*, **14**, 1906, (32-45, pl. i). [*Orthoptera*].

Caudell, A. N. 4. List of *Orthoptera* collected in Guatemala by C. C. Deam and E. B. Williamson. *Ohio Nat.*, Columbus, Ohio, **7**, 1906, (14).

Caudell, A. N. 5. *Antolyca doylei*, a new *Phasmid* from So. America. *Ent. News*, Philadelphia, Pa., **17**, 1906, (192-193). [*Orthoptera*].

Caupi, U. vide Morgenroth, I.

Cayeux, L. Les tourbes des plages bretonnes, au nord de Morlaix (Finistère). Paris, C.-R. Acad. sci., **142**, 1906, (468-470).

Cazalbou, L. Expériences d'infection de trypanosomiase par des *Glossina palpalis* infectées naturellement. Paris, C.-R. Acad. sci., **143**, 1906, (435-437).

Cecconi, Giacomo. Contribuzione alla Cecidologia Toscana. (Seconda parte.) Marcellia, Avellino, **5**, 1906, (39-43).

Cecconi, G. vide Kieffer, J. J.

Cerva, Frigyes. A *Rhyparoides Metelkanaröl*. [Über *Rhyparoides Metelkana*.] *Rovart. L.*, Budapest, **13**, 1906, (101-105). [*Lepidoptera*].

Četverikov, S. S. vide Tschetverikow, S. S.

Champion, G. C. *Coleoptera, Rhynchophora*. *Biol. Centr.-Amer.* London, Col. **4**, pt. 4, (601-750 + i-viii) plates xxx-xxxv and pt. 5 (1-136, pls i-viii).

Chapman, T. A. 1. A new British Arctiid. *Ent. Mag.*, London, **42**, 1906, (100-101). [*Lepidoptera*].

Chapman, T. A. 2. Progressive melanism: further notes on *Hastula hyerana*, Mill. *Ent. Mag.*, London, **42**, 1906, (243-246, pl. iii). [*Lepidoptera*].

Chapman, T. A. 3. The eggs of *Nabis (lativentris?)*. *Entomologist*, London, **39**, 1906, (73-74, pl. iii). [*Hemiptera*].

Chapman, T. A. 4. Imperfect moult in a larva of *Amorpha (Smerinthus)*

populi. *Entomologist*, London, **39**, 1906, (217-219). [*Lepidoptera*].

Chapman, T. A. 5. Butterflies at rest. *Ent. Rec.*, London, **18**, 1906, (168-170). [*Lepidoptera*].

Chapman, T. A. 6. Observations on the life history of *Trichoptilus paludum* Zell. London, *Trans. Ent. Soc.*, **1906**, (133-154, pl. vii). [*Lepidoptera*].

Chapman, T. A. 7. Progressive melanism on the Riviera (Hyères), being farther notes on *Hastula hyerana*, Mill. London, *Trans. Ent. Soc.*, **1906**, (155-168, pl. viii). [*Lepidoptera*].

Chapman, T. A. vide Rothschild, N. C.

Chaster, George W. A second list of the *Coleoptera* of Southport and district. Southport, *Rep. Soc. Nat. Sci.*, **11**, 1906, (56-59).

Chateau, E. vide Marchal, C.

Chevyrew, I. J. vide Ševyrev, I. J.

Chilton, Charles. 1. Note on a waterbeetle found in sea-water. Wellington, *Trans. N. Zeal. Inst.*, **38**, 1906, (63). [*Coleoptera*].

Chilton, C. 2. Occurrence in New Zealand of *Dipterous* Insects belonging to the family *Blepharoceridae*. Wellington, *Trans. N. Zeal. Inst.*, **38**, 1906, (277-278, pl. xlv). [*Coleoptera*].

Chittenden, F[rank] H[ur]but. 1. The North American species of the genus *Notaris* Germ. New York, N.Y., *J. Ent. Soc.*, **14**, 1906, (113-115). [*Coleoptera*].

Chittenden, F. H. 2. The melon aphid. (*Aphis gossypii* Glov.) Washington, D.C., *Cir.*, U. S. Dept. Agric., *Bur. Ent.*, No. **80**, 1906, (1-16). [*Aphidae*].

Chitty, A. J. *Pseudisobrachium eantianum*: a species of *Bethylinae* (*Proctotypidae*) new to science. *Ent. Mag.*, London, **42**, 1906, (148-150).

Chobaut, A. 1. Description d'un *Blattivorus* nouveau de Madagascar. Paris, *Bul. soc. ent.*, **1906**, (203-204). [*Coleoptera*].

Chobaut, A. 2. Une *Mordellide* nouvelle pour la faune française. Paris, *Bul. soc. ent.*, **1906**, (210-211). [*Coleoptera*].

Chobaut, A. 3. Note sur le *Myiodes subdipterus* Bosc. Paris, Bul. soc. ent., 1906, (223-224). [*Coleoptera.*]

Chobaut, A. 4. Le triongulinide des *Myiodes subdipterus* Bosc. Paris, Bul. soc. ent., 1906, (238-244, av. fig.). [*Coleoptera.*]

Chobaut, A. 5. Le triongulinide de *Macrosiagon tricuspidata* Lepeu. Paris, Bul. soc. ent., 1906, (270-272). [*Coleoptera.*]

Chobaut, A. 6. Sur l'aire de dispersion de *Bathyscia aubei* Kiesw. Nîmes, Bul. soc. étud. sci. nat., 33, 1906, (167-168). [*Coleoptera.*]

Chobaut, A. 7. Description d'un *Lathridiide* nouveau du nord de l'Afrique. Entomol. Ztg., Wien, 25, 1906, (256). [*Coleoptera.*]

Chobaut, A. 8. Insectes Coléoptères du Genêt épineux (*Genista scorpius* D. C.). Nîmes, Bul. soc. étud. sci. nat., 31, 1903, (92-99).

(Chobaut, A. 9. Description de deux Coléoptères cavernicoles nouveaux du Midi de la France. Paris, Bul. soc. ent., 1903, (263-265). [4831 4827 df].)

(Chobaut, A. 10. Description d'un *Trechus* (*Anophthalmus*) nouveau des Pyrénées. Paris, Bul. soc. ent., 1904, (212-214). [4831 4827 df].)

(Chobaut, A. 11. Description d'un *Rhipidius* nouveau de la France méridionale avec tableau dichotomique des *Rhipidiini*. Paris, Bul. soc. ent., 1904, (228-232). [4831 4827 df].)

(Chobaut, A. 12. Descriptions de deux espèces nouvelles de Coléoptères de l'Arabie. Paris, Bul. soc. ent., 1904, (243-245). [4831 4827 ei].)

(Chobaut, A. 13. Un *Hydroporus* nouveau pour la faune française. Paris, Bul. soc. ent., 1905, (156). [4831 4827 df].)

(Chobaut, A. 14. Description d'une espèce nouvelle de Longicorne de l'Algérie méridionale. Paris, Bul. soc. ent., 1905, (157-158). [4831].)

(Chobaut, A. 15. Un staphylinide nouveau pour la faune française. Paris, Bul. soc. ent., 1905, (273-274). [4831 4827 df].)

(Chobaut, A. 16. Sur l'aire de dispersion du *Bathyscia aubei* Kiesw.

Paris, Bul. soc. ent., 1905, (293-294). [4831 4827].)

(Chobaut, A. 17. Description d'un Coléoptère cavernicole nouveau du Midi de la France (extrait du Bul. soc. ent., 28 octobre 1903). Nîmes, Bul. soc. étud. sci. nat., 31, 1903, [1904]. (76-77). [4827 df 4831].)

[Cholodkovskij, N. A.] Холодковскіи Н. А. Хермеса, вредящіе хвойнымъ деревьямъ. Сельскохозяиственная монографія. [Die den Nadelhölzern schädlichen Chermes-Arten. Eine landwirthschaftliche Monographie.] St. Peterburg (Depart. f. Landwirthschaft), 1906, (60, mit 6 Taf.). [*Aphidae*].

Chrétien, P. 1. Histoire naturelle de l'*Adela australis* H.S. Naturaliste, Paris, 28, 1906, (17-19). [*Lepidoptera.*]

Chrétien, P. 2. Histoire naturelle du *Solenobia larella* Chrét. Naturaliste, Paris, 28, 1906, (56, 57). [*Lepidoptera.*]

Chrétien, P. 3. L'histoire naturelle de *Larentia verberata* Sc. Naturaliste, Paris, 28, 1906, (125-126). [*Lepidoptera.*]

Chrétien, P. 4. L'*Agrotis constanti* Mill. Naturaliste, Paris, 28, 1906, (262). [*Lepidoptera.*]

(Chrétien, P. 5. Description d'un Lépidoptère nouveau d'Espagne. Paris, Ann. soc. ent., 72, 1903, (105, fig. et pl.). [4431 4437 dg].)

(Chrétien, P. 6. Description d'une nouvelle espèce de *Tephroclystia*. Paris, Bul. soc. ent., 1904, (133-134). [4431].)

(Chrétien, P. 7. Histoire naturelle de la *Promasia ataxella*. Naturaliste, Paris, 27, 1905, (257-259). [4431 4419].)

Christophers, S. R. On the importance of larval characters in the classification of Mosquitoes. Sci. Mem. Med. Ind., Calcutta, N. Ser., No. 25, 1906, (1-18. pls. i-iii). [*Diptera.*]

Christophers, R. S. and Newstead, R. On a new pathogenic louse which acts as the intermediary host of a new haemogregarine in the blood of the Indian field rat (*Jerbillus indicus*). Liverpool, Thompson Yates Lab. Rep. n. ser., 7, 1906, (3-6, 1 pl.). [*Anoplura.*]

Čičerin vide Tschitscherin.

Clark, A[ustin] H[erbert] *vide* Castle, W. E.

Clark, F. N. Photography for entomologists. *Ent. Rec.*, London, **18**, 1906, (193-195, pls. viii-ix).

Clark, Jas. *Insects. Victoria history county of Cornwall*, **1**, 1906, (163-243).

Clarke, Warren T. Description of a new species of saw-fly. *Canad. Entomol.*, **38**, 1906, (351-352). [*Hymenoptera*.]

Claus, J. *Saturnia pyri* in Lothringen. *Insektenbörse*, Leipzig, **23**, 1906, (171-172). [*Lepidoptera*.]

Clavareau, H. *vide* Jacoby, M.

Clément, A. L. L'élevage artificiel des abeilles. *Nature*, Paris, **1906**, (2^e semest.), (115-117). [*Hymenoptera*.]

Clermont, J. Contribution à l'étude des Coléoptères du département du Gers. *Echange*, Moulins, **22**, 1906, (20-21).

Cobb, N. A. Fungus maladies of the sugar cane, with notes on associated insects and Nematodes. *Honolulu, Exp. Sta. Hawaiian Sug. Pl. Ass. Bull.*, 1906, No. **5**, (1-254).

Cobelli, Ruggero. **1.** Il *Pachylomma cremieri* de Romand ed il *Lasius fuliginosus* Latr. *Wien, Verh. ZoolBot. Ges.*, **1906**, (475-477). [*Hymenoptera*.]

Cobelli, R. **2.** Le formiche del promontorio di Sezza (Istria). *Wien, Verh. ZoolBot. Ges.*, **1906**, (477-480). [*Hymenoptera*.]

Cobelli, R. **3.** A proposito del micropilo dell'uovo dei *Lepidotteri*. *Wien, Verh. ZoolBot. Ges. Wien*, **1906**, (602-604).

Cockayne, E. A. *Lepidoptera* at Rannoch in 1905. *Entomologist*, London, **39**, 1906, (38-40, 53-55).

Cockerell, T. D. A. **1.** Descriptions and records of bees. vii. *Ann. Mag. Nat. Hist.*, London, ser. **7**, **17**, 1906, (23-29). [*Hymenoptera*.]

Cockerell, T. D. A. **2.** Descriptions and records of bees. viii. *Ann. Mag. Nat. Hist.*, London, ser. **7**, **17**, 1906, (222-230). [*Hymenoptera*.]

Cockerell, T. D. A. **3.** Descriptions and records of bees. ix. *Ann. Mag. Nat. Hist.*, London, ser. **7**, **17**, 1906, (306-316). [*Hymenoptera*.]

Cockerell, T. D. A. **4.** Descriptions and records of bees. x. *Ann. Mag. Nat. Hist.*, London, ser. **7**, **17**, 1906, (359-368). [*Hymenoptera*.]

Cockerell, T. D. A. **5.** Descriptions and records of bees. xi. *Ann. Mag. Nat. Hist.*, London, ser. **7**, **17**, 1906, (527-529). [*Hymenoptera*.]

Cockerell, T. D. A. **6.** Descriptions and records of bees. xii. *Ann. Mag. Nat. Hist.*, London, ser. **7**, **18**, 1906, (69-75). [*Hymenoptera*.]

Cockerell, T. D. A. **7.** Four interesting Australian bees, in the collection of the British Museum. *Entomologist*, London, **39**, 1906, (15-18). [*Hymenoptera*.]

Cockerell, T. D. A. **8.** New Australian bees in the collection of the British Museum. ii. *Entomologist*, London, **39**, 1906, (56-60). [*Hymenoptera*.]

Cockerell, T. D. A. **9.** New American bees. i. *Entomologist*, London, **39**, 1906, (125, 126, 148-150). [*Hymenoptera*.]

Cockerell, T. D. A. **10.** New American bees. ii. *Entomologist*, London, **39**, 1906, (177-179). [*Hymenoptera*.]

Cockerell, T. D. A. **11.** The bees of Australia. *Nature*, London, **73**, 1906, (439, 440). [*Hymenoptera*.]

Cockerell, T. D. A. **12.** New rocky mountain bees, and other notes. *Canad. Entomol.*, **38**, 1906, (160-166). [*Hymenoptera*.]

Cockerell, T. D. A. **13.** Some bees from Washington State. *Canad. Entomol.*, **38**, 1906, (277-282). [*Hymenoptera*.]

Cockerell, T. D. A. **14.** A new fossil ant [from Florissant, Colorado]. *Ent. News*, Philadelphia, Pa., **17**, 1906, (27-28). [*Hymenoptera*.]

Cockerell, T. D. A. **15.** A new saw-fly. *Ent. News*, Philadelphia, Pa., **17**, 1906, (220). [*Hymenoptera*.]

Cockerell, T. D. A. **16.** The bees of Florissant, Colorado. *New York, N.Y., Bull. Amer. Mus. Nat. Hist.*, **22**, 1906, (419-455). [*Hymenoptera*.]

Cockerell, T. D. A. **17.** Fossil sawflies from Florissant, Colorado. *New York, N.Y., Bull. Amer. Mus. Nat. Hist.*, **22**, 1906, (499-501). [*Hymenoptera*.]

Cockerell, T. D. A. 18. Fossil *Hymenoptera* from Florissant, Colorado. Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **50**, 1906, (31-58).

Cockerell, T. D. A. 19. The North American bees of the family *Anthophoridae*. Philadelphia, Pa., Trans. Amer. Ent. Soc., **32**, 1906, (63-116). [*Hymenoptera*.]

Cockerell, T. D. A. 20. The bees of New Mexico. Philadelphia, Pa., Trans. Amer. Ent. Soc., **32**, 1906, (289-314). [*Hymenoptera*.]

Cockerell, T. D. A. 21. North American bees of the genera *Andrena* and *Melitta* in the British museum. Psyche, Boston, Mass., **13**, 1906, (5-10, 33-37). [*Hymenoptera*.]

Cockerell, T. D. A. 22. The effect of food on the colour of moths. Nature, London, **1906**, (341). [*Lepidoptera*.]

Cockerell, T. D. A. 23. Preoccupied generic names of *Coleoptera*. Ent. News, Philadelphia, Pa., **17**, 1906, (240-244), and corrections (349).

Cockerell, T. D. A. 24. The South American *Coccidae* of the genus *Eriococcus*. Washington, D.C., Proc. Ent. Soc., **8**, 1906, (32).

Cockerell, T. D. A. 25. Notes on *Coccidae*. Washington, D.C., Proc. Ent. Soc., **8**, 1906, (33-35).

Cockerell, T. D. A. 26. The *Coccid* genus *Entecanium*. Canad. Entomol., **38**, 1906, (83-88).

Cockerell, T. D. A. 27. A fossil water bug. Canad. Entomol., **38**, 1906, (209). [*Hemiptera*.]

Cockerell, T. D. A. 28. A fossil *Cicada* from Florissant, Colorado. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, 1906, (457-458). [*Homoptera*.]

Cockerell, T. D. A. 29. The care of entomological types. Washington, D.C., Bull. U. S. Dept. Agric., Bur. Ent., No. **60**, 1906, (51-52).

(**Cockerell, T. D. A. 30.** Three new bees from the south-west. Ent. News, Philadelphia, Pa., **16**, 1905, (81-83). [4627 gi 4631].)

(**Cockerell, T. D. A. 31.** Three new South American *Coccidae*. Ent. News, Philadelphia, Pa., **16**, 1905, (161-163). [4027 h 4031].)

(**Cockerell, T. D. A. 32.** New bees from Colorado. Ent. News, Philadelphia, Pa., **16**, 1905, (270-272). [4627 gi 4631].)

[**Cockerell, T. D. A. 33.** Tables for the identification of Rocky-mountain *Coccidae*. (Scale Insects and Mealybugs.) Boulder Univ., Colo., Stud., **2**, 1905, (189-203).]

Cockerell, T. D. A. and Gill, Marie. *Tricorythus*, a genus of mayflies. Boulder, Univ. Colo. Stud., **3**, 1906, (136-137). [*Ephemeridae*.]

Cockerell, T. D. A. vide Lovell, J. H.

Colcord, Mabel. List of publications of the Bureau of Entomology. Washington, D.C., Cir., U. S. Dept. Agric., Bur. Ent., No. **78**, 1906, (1-21).

Cole, F. J. The bionomics of grain weevils. J. econ. Biol., London, **1**, 1906, (63-71). [*Coleoptera*.]

Collin, J. E. *Phora opaca*, Mg., and *Phora perennis*, Mg. Ent. Mag., London, **42**, 1906, (177-179). [*Diptera*.]

Collinge, Walter E. 1. Note on the deposition of the eggs and larvae of *Oestrus oris*, Linn. J. econ. Biol., London, **1**, 1906, (72, 73). [*Diptera*.]

Collinge, W. E. 2. Report on the injurious insects and other animals observed in the Midland counties during 1905. Third report. Birmingham, 1906, (vii + 58).

Comstock, G. F. List of *Lepidoptera* taken at Keene valley. Albany, N.Y., St. Educ. Dept. Mus., Bull., **97**, (Entomology, **24**), 1905, (557-561).

Coniglio Fanales, G. Un caso di accoppiamento nei *Coleotteri* fra specie diverse. Naturalista sicil., Palermo, **18**, 1906, (220).

Conte, A. and Vaney, C. Répartition de l'*Anopheles maculipennis* Meigen dans la région lyonnaise. Paris, C.-R. Acad. Sci., **143**, 1906, (778). [*Diptera*.]

Cook, John H. 1. On the specific validity of *Thanaos ausonius* Lintner. New York, N.Y., J. Ent. Soc., **14**, 1906, (125-128, pl. iii). [*Lepidoptera*.]

Cook, J. H. 2. Studies in the genus *Incisalia*. Canad. Entomol., **38**, 1906, (111-144, 181-185, 214, pls. i-iii). [*Lepidoptera*.]

Cook, Mel. T. Gall-insects and insect galls. Science, New York, N.Y., **24**, 1906, (312).

Cook, O. F. Please excuse the kelep. Science, New York, N.Y., **23**, 1906, (187-189). [*Hymenoptera*.]

Cooley, R. A. 1. Third annual report of the State entomologist. Agric. Exp. Sta., Montana, Bull. No. **62**, 1905, (185-230).

Cooley, R. A. 2. Fourth annual report of the State entomologist, Montana. Agric. Exp. Sta., Montana, Bull., No. **64**, 1906, (37-45).

Copeland, Manton *vide* Mark, E. L.

Coquillett, D. W. 1. On the breaking up of the old genus *Culex*. Science, New York, N.Y., **23**, 1906, (312-314). [*Diptera*.]

Coquillett, D. W. 2. A new *Tabanus* related to *punctifer* [from Illinois]. Ent. News, Philadelphia, Pa., **17**, 1906, (48). [*Diptera*.]

Coquillett, D. W. 3. A new *Culex* near *curriei* [from California]. Ent. News, Philadelphia, Pa., **17**, 1906, (109). [*Diptera*.]

Coquillett, D. W. 4. Five new *Culicidae* from the West Indies. Canad. Entomol., **38**, 1906, (60-62). [*Diptera*.]

Coquillett, D. W. 5. A classification of the mosquitoes of North and middle America. Washington, D.C., Tech. Ser., U. S. Dept. Agric., Bur. Ent., No. **11**, 1906, (1-31). [*Diptera*.]

(**Corti, Emilio.** Alcuni Ditteri del Portogallo. Milano, Rend. Ist. lomb., Ser. 2, **36**, 1903, (1068-1077). [4231 4227 *dy*].)

Cornelsen, Hermann. *Vanessa xanthomelas* and *Euchloe belia ausonia* in Westfalen. Insektenbörse, Leipzig, **23**, 1906, (148). [*Lepidoptera*.]

Cosens, A. A new *Retinia* attacking Austrian pine. Canad. Entomol., **38**, (362-364). [*Lepidoptera*.]

Costantini, Alessandro. Materiali per la fauna entomologica del Modenese e Reggiano. Nuove forme di *lepidotteri*. Riv. ital. sc. nat., Siena, **25**, 1906, (135-138).

Couvreux, E. Sur la destinée des microbes normaux du tube digestif chez les insectes à métamorphose. (Ex. B.

mori). Paris, C.-R. soc. biol., **61**, 1906, (422-423).

(**Coverdale, George.** Variation in *Callimorpha*. Ent. News, Philadelphia, Pa., **16**, 1905, (154). [4423 4431].)

Cox, G. Lissant and Brooke, Justin. *Noctuae* in Huntingdonshire, 1905, and a sequel in the High Court of Chancery. Entomologist, London, **39**, 1906, (127-132). [*Lepidoptera*.]

Cox, H. W. Notes on a Longicorn Beetle. (*Eurynassa figurata*, Fasc.). Sydney, N.S.W., The Australian Naturalist, **1**, pt. 3, 1906, (30). [*Coleoptera*.]

Crallan, G. E. J. *Ophiodes* or *Pseudophia lunaris*. Dorchester, Proc. Dorset Nat. Hist. F. Cl., **37**, 1906, (176-180).

Crampton, Henry E[dward]. 1. Determination of the laws of variation and inheritance of certain *Lepidoptera*. Washington, D.C., Carnegie Inst., Year Book No. **4**, (1905), 1906, (276-277).

Crampton, H. E. 2. The nature and basis of sexual selection in moths. [Abstract.] New York, N.Y., Proc. Soc. Exp. Biol. Med., **1**, 1904, (27-28). [*Lepidoptera*.]

(**Crampton, H. E.** On a general theory of adaptation and selection. J. Exp. Zool., Baltimore, Md., **2**, 1905, (425-430). [4423].)

Crawford, J. C. 1. Some new species of *Halictus*. Canad. Entomol., **38**, 1906, (4-6). [*Hymenoptera*.]

Crawford, J. C. 2. Three new species of bees. Canad. Entomol., **38**, 1906, (282-284). [*Hymenoptera*.]

Crawford, J. C. 3. Synopsis of bees of Oregon, Washington, British Columbia and Vancouver. V. Canad. Entomol., **38**, 1906, (297-304). [*Hymenoptera*.]

Crawford, J. C. 4. A new *Halictus* from Nebraska. Ent. News, Philadelphia, Pa., **17**, 1906, (275-276). [*Hymenoptera*.]

Crawford, J. C., jun. 5. Some Costa Rican bees. Philadelphia, Pa., Trans. Amer. Ent. Soc., **32**, 1906, (157-163). [*Hymenoptera*.]

Crawshay, G. A. Further notes on the capture of *Amara anthobia*, Villa, and the comparative morphology of

A. familiaris, Duft., *A. anthobia* and *A. lucida*, Duft. (continued). Ent. Mag. London, **42**, 1906, (46-50). [*Coleoptera.*]

Cresson, E. T., jun. Some North American *Diptera* from the south west. Paper 1. *Ortalidae*. Philadelphia, Pa., Trans. Amer. Ent. Soc., **32**, 1906, (279-288, pl.).

Crombrugghe de Picquendaele, le Baron. 1. Catalogue raisonné des *Microlépidoptères* de Belgique. Première partie. Bruxelles, Mém. Soc. ent. Belgique, **13**, 1906, (1-172). Deuxième partie. Op. cit. **14**, (1-155).

Crombrugghe de Picquendaele. 2. Larves de *Microlépidoptères* vivant en août, sur les trembles de la forêt de Soignes. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (271, 272).

Crombrugghe de Picquendaele. 3. Observations sur quelques *Microlépidoptères* de la faune belge pendant l'année 1905. Namur, Rev. mens. Soc. ent., **1906**, (2-5).

Csiki, Ernő. 1. Adatok a magyarországi *Morphocarabusok* ismeretéhez. [Beiträge zur Kenntniss der ungarischen *Morphocaraben*.] Ann. Hist.-Nat. Mus. Nat. Hung., Budapest, **4**, 1906, (244-262). [*Coleoptera.*]

Csiki, E. 2. A *Notiophilus melanophthalmus* Schloss. nevü bogárról. [Über *Notiophilus melanophthalmus* Schloss.] Ann. Hist.-Nat. Mus. Nat. Hung., Budapest, **4**, 1906, (619-620). [*Coleoptera.*]

Csiki, E. 3. Magyarországszű-féléi. [Die Borkenkäfer Ungarns.] Rovart. L., Budapest, **13**, 1906, (47-53, 76-79, 154-156, 170-174, 187-188, 208-211). [*Coleoptera.*]

Csiki, E. 4. Új *Carabus* Csík-vármegyéből. [Ein neuer *Carabus* aus dem Comitatus Csík.] Rovart. L., Budapest, **13**, 1906, (175). [*Coleoptera.*]

Czekelius, Dániel. 1. Adalék Erdélyi lepke-faunájához. [Beiträge zur Lepidopterenfauna Siebenbürgens.] Rovart. L., Budapest, **13**, 1906, (84-86).

[**Czekelius, D.** 2. Beiträge zur Schmetterlingsfauna Siebenbürgens. Hermannstadt, Verh. Siebenb. Ver., **53**, 1905, (81-83). [*Lepidoptera.*]]

Czerny, Leander. 1. Zwei neue *Chortophila*-Arten aus Oberösterreich.

Entomol. Ztg., Wien, **25**, 1906, (251-251). [*Diptera.*]

Czerny, L. 2. *Leptomiza varipennis* v. d. Wulp eine *Oxya*. Entomol. Ztg., Wien, **25**, 1906, (254-255). [*Diptera.*]

Czerny, L. 3. Zwei palaearktische *Gaurax*-Arten. Entomol. Ztg., Wien, **25**, 1906, (299-301). [*Diptera.*]

(**Czerny, L.** 4. Revision der Helomyziden. Entomol. Ztg., Wien, **23**, 1904, (199-244, 263-286, mit 1 Taf.). [1231].)

Daecke, Erich. 1. On the eye-coloration of the genus *Chrysops*. Ent. News, Philadelphia, Pa., **17**, 1906, (39-42, pl.). [*Diptera.*]

(**Daecke, E.** 2. Notes on *Prionapteryx nebulifera* Steph. Ent. News, Philadelphia, Pa., **16**, 1905, (12-14, with pl.). [4419-4431].)

(**Daecke, E.** 3. Two new species of *Diptera* from New Jersey. Ent. News, Philadelphia, Pa., **16**, 1905, (249-251, with text fig.). [4227-4231].)

Dammann, [Carl] und Oppermann, [Theodor]. *Simulia ornata* als Vermittler der Wild- und Rinderseuche. D. tierärztl. Wochenschr., Hannover, **13**, 1905, (505-506). [*Diptera.*]

Dampf, A. *Celonoptera mirificaria* Ld. der ältere Name für *Sparta paradoxaria* Stgr. D. ent. Zs. Iris, Berlin, **19**, 1906, (42). [*Lepidoptera.*]

Daniel, K. vide Ganglbauer, Ludwig.

Darboux, G. et Mingaud, G[alien]. Un nouvel ennemi des Chrysanthèmes (*Phytoecia pustulata* Schrk.). Nîmes, Bul. soc. étud. sci. nat., **33**, 1906, (172-176). [*Coleoptera.*]

Dastre, A. The fight against yellow fever. [Translated from Revue des Deux Mondes, Paris, September 1, 1905.] Washington, D.C., Smithsonian Inst., Rep., **1905**, 1906, (339-350).

Davis, John J. Number of eggs of *Samia cecropia*, *Pulvinaria innumerabilis*, and *Culex pipiens*. Ent. News, Philadelphia, Pa., **17**, 1906, (368-369).

Davis, Wm. T. The burrows of *Cicindela rugifrons* and *Cicindela modesta*. Canad. Entomol., **38**, 1906, (120). [*Coleoptera.*]

Davis, W[illiam] Thompson and Joutel, Louis H. Observations on

Cicada tibicen L. and allied forms. Ent. News, Philadelphia, Pa., **17**, 1906, (237-239). [*Homoptera*.]

Decker, Fr. 1. Ueber Behandlung der Raupen von *Macrothylacia rubi*. Ent. Zs., Guben, **20**, 1906, (21-22). [*Lepidoptera*.]

Decker, Fr. 2. Auf der Dumijagd. Ent. Zs., Guben, **20**, 1906, (212-214). [*Lepidoptera*.]

Decker, Fr. 3. Das *Lemonia dumii*. Ei. Ent. Zs., Guben, **20**, 1906, (220). [*Lepidoptera*.]

De la Porte. Captures de *Steatoderus ferrugineus* à Choisy-le-Roi. Paris, Bul. soc. ent., **1906**, (186). [*Coleoptera*.]

Del Guercio *vide* Guercio.

(Demaison, Ch. Description d'une variété et d'une espèce nouvelle d'Asie Mineure. Paris, Bul. soc. ent., **1904**, (286-287). [4381 4327 ei].)

(Demaison, L. Observations sur le *Lythria purpuraria* L. Paris, Bul. soc. ent., **1905**, (125-126). [4423 4431].)

Denso, Paul. 1. *Deilephila* var. *lirornica* an der Dent du Midi. Ent. Zs., Guben, **20**, 1906, (155-156). [*Lepidoptera*.]

Denso, P. 2. Lepidopterologisches von der Umgebung des Genfer Sees. Ent. Zs., Guben, **20**, 1906, (163-164, 169-170, 179-180).

Desbrochers des Loges, J. 1. Description d'un Curculionide nouveau du genre *Orthochaetes*. Nîmes, Bul. soc. étud. sci. nat., **33**, 1906, (101-102). [*Coleoptera*.]

[Desbrochers des Loges, J. 2. Troisième supplément à la Monographie des espèces du genre *Elytrodon*. Le Frelon, Châteauroux, **14**, 1905, (1-4). [*Coleoptera*.]]

[Desbrochers des Loges, J. 3. Supplément à la Monographie des *Holcorhinidae* d'Europe et circa. Le Frelon, Châteauroux, **14**, 1905, (5-8). [*Coleoptera*.]]

[Desbrochers des Loges, J. 4. *Curculionides* nouveaux d'Europe et circa. Le Frelon, Châteauroux, **14**, 1905, (9-22). [*Coleoptera*.]]

[Desbrochers des Loges, J. 5. Description d'un Curculionide nouveau du genre *Orthochaetes* suivie d'un tableau synoptique des espèces françaises de ce (x-9720 j)

genre. Le Frelon, Châteauroux, **14**, 1905, (23, 24). [*Coleoptera*.]]

Desbrochers des Loges, J. 6. Faunule des *Coléoptères* de la France et de la Corse, *Curculionides* de la tribu des Cléonides. Le Frelon, Châteauroux, **14**, 1905, (25-76).

Desbrochers des Loges, J. 7. *Coléoptères* recueillis à Tours, dans les détritits charriés par la Loire et par le Cher, à la suite des crues du mois de novembre 1905. Le Frelon, Châteauroux, **14**, 1906, (77-80).

Desbrochers des Loges, J. 8. Faunule des *Coléoptères* de la France et de la Corse. Carabiques de la tribu des *Feronidae*. Le Frelon, Châteauroux, **14**, 1906, (81-194).

Desbrochers des Loges, J. 9. Étude sur les *Curculionides* exotiques et description d'espèces inédites. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (355-372). [*Coleoptera*.]

Desneux, J. 1. Quelques remarques sur *Platypsyllus castoris* Rits. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (103-105). [*Coleoptera*.]

Desneux, J. 2. *Coleoptera* Fam. *Platypsyllidae*. [In] Wytsman Genera insectorum, 41^{me} fascic., 1906, (1-9, 1 pl.).

Desneux, J. 3. The Kashmir Termit *Termopsis wroughtoni*. Bombay, J. Nat. Hist. Soc., **17**, 1906, (293-298).

De Stefani Perez, S. 1. Miscellanea cecidologica. Marcellia, Avellino, **5**, 1906, (127-130). [*Hymenoptera*.]

De Stefani Perez, S. 2. Contributo all'entomofauna dei cecidii. Marcellia, Avellino, **5**, 1906, (131-134). [*Hymenoptera*.]

Deville, J. Sainte-Claire. 1. Synopsis des *Meira* français. Abeille, Paris, **30**, 1906, (258-260). [*Coleoptera*.]

Deville, J. Sainte-Claire. 2. Contributions à la faune française (*Coléoptères*, II and III). Abeille, Paris, **30**, 1906, (237-248, 261-268).

Deville, J. Sainte-Claire. 3. Synopsis des *Hydraena* du nord de l'Afrique. Abeille, Paris, **30**, 1906, (283-287). [*Coleoptera*.]

Deville, J. Sainte-Claire. 4. Essai sur l'entomologie de la haute Auvergne, 3^e supplément. Rev. ent., Caen, **25**, 1906, (18-22). [*Coleoptera*.]

Déville, J. Sainte-Claire. 5. Catalogue critique des *Coléoptères* de la Corse. Rev. ent., Caen, **25**, 1906, (1-112, pagination spéciale).

(**Déville, J. Sainte-Claire.** 6. Description d'un *Dyschirius* nouveau de France et d'Algérie. Paris, Bul. Soc. ent., **1904**, (29-30). [4831 4827 df fa].)

(**Déville, J. Sainte-Claire.** 7. Description d'un Harpalide nouveau des Pyrénées. Paris, Bul. soc. ent., **1905**, (113-115). [4831 4827 df].)

(**Déville, J. Sainte-Claire.** 8. Description d'un *Bathyscia* nouveau des Pyrénées. Paris, Bul. soc. ent., **1905**, (160-161). [4831].)

Dewitz, J. 1. Der Einfluss der Wärme auf Insektenlarven. Centralbl. Bakt., Jena, Abt. 2, **17**, 1906, (40-53).

Dewitz, J. 3. Ueber den Einfluss der Wärme auf die Raupen der Traubenmotten *Cochylis ambiguella* und *Eudemis lotrana*. Geisenheim, Ber. Lehranst. Obstbau, **1905**, 1906, (161-188).

Dewitz, J. 4. Die Häufigkeit des Sauerwurms in den Weinbergen der Lehranstalt im Sommer 1905 nebst Bemerkungen über das Verhalten der Arten *C[ochylis] ambiguella* und *E[udemis] lotrana*. Geisenheim, Ber. Lehranst. Obstbau, **1905**, 1906, (188-193). [*Lepidoptera*].

Dewitz, J. 5. Die Verteilung der Geschlechter bei *Cochylis ambiguella*. Geisenheim, Ber. Lehranst. Obstbau, **1905**, 1906, (194-196). [*Lepidoptera*].

[**Diāčenko, S.**] 1. Дьяченко, С. По вопросу о назначении трутней. [Zur Frage über die Bestimmung der Drohnen]. Russ. pčelovod. listok, St. Petersburg, **19**, 1904, (394). [*Hymenoptera*].

[**Diāčenko, S. E.**] 2. Дьяченко, С. Е. О роении. [Ueber das Schwärmen.] Russ. pčelovod. listok, St. Petersburg, **21**, 1906, (11-17, 42-47). [*Hymenoptera*].

[**Diāčenko, S.**] 3. Дьяченко, С. Къ вопросу объ органахъ дыханія пчелы. [Zur Kenntnis der Athmungsorgane der Biene.] Moskva, Ann. Inst. agron., **12**, 1906, 1, (1-14). [*Hymenoptera*].

Diatschenko, S. 4. Ueber das Schwärmen der Bienen. Zs. wiss. In-

sektenbiol., Husum, **2**, 1906, (285-288). —Entgegnung darauf v. H. v. Butteler-Reepen, T.e., (359-361). [*Hymenoptera*].

Dickel, Ferd. Ueber das Schwärmen der Bienen. D. ill. Bienenztg, Leipzig, **23**, 1906, (86-88, 103-105, 120-123, 135-137, 149-150, 163-165, 179-183). [*Hymenoptera*].

Dickel, Otto. Nachtrag zu meiner Arbeit: Bisherige Veränderungen der Fauna Mitteleuropas durch Einwanderung u. Verbreitungsschädlicher Insekten. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (50-51).

Diehlm, Franz. Die Raupe von *Daphnis nerii*. Insektenbörse, Leipzig, **23**, 1906, (376). [*Lepidoptera*].

Dietze, Karl. 1. Beiträge zur Kenntnis der *Eupitheci*en. D. ent. Zs. Iris, Berlin, **19**, 1906, (55-67, Taf. i-iv). [*Lepidoptera*].

Dietze, K. 2. Beiträge zur Kenntnis der *Eupitheci*en. D. ent. Zs. Iris, Berlin, **19**, 1906, (121-126, Taf. iv). [*Lepidoptera*].

Dietze. 3. Zur geographischen Verbreitung der Schmetterlinge. [*Cirrhocidia xerampelina* in Lothringen.] Ent. Zs., Guben, **20**, 1906, (221). [*Lepidoptera*].

Distant, W. L. 1. A few undescribed species of *Cicadidae*. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (156-158). [*Homoptera*].

Distant, W. L. 2. Some undescribed species of *Cicadidae*. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (182-185). [*Homoptera*].

Distant, W. L. 3. Some undescribed species of *Cicadidae*. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (384-388). [*Homoptera*].

Distant. 4. Preoccupied generic names in the Homopterous family *Fulgoridae*. Entomologist, London, **39**, 1906, (8).

Distant. 5. Description of a new Fijian species of *Cicadidae*. Entomologist, London, **39**, 1906, (12). [*Homoptera*].

Distant, W. L. 6. An apparently undescribed species of *Cicadidae* from Chili. Entomologist, London, **39**, 1906, (61). [*Homoptera*].

Distant, W. L. 7. Description of a new genus and species of *Cicadidae* from China. *Entomologist*, London, **39**, 1906, (121-122). [*Homoptera*.]

Distant, W. L. 8. Description of a new species of Australian *Cicadidae*. *Entomologist*, London, **39**, 1906, (148). [*Homoptera*.]

Distant, W. L. 9. *Rhynchota* Vol. III. (*Heteroptera-Homoptera*). [In] The fauna of British India, including Ceylon and Burma. Edited by Lt.-Col. C. T. Bingham. London, 1906, (xiv + 503). 8vo.

Distant, W. L. 10. A synonymic catalogue of *Homoptera*. Part 1, *Cicadidae*. London, British Museum, 1906, (1-207). 8vo.

Distant, W. L. 11. Undescribed *Cicadidae*. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (148-154). [*Homoptera*.]

Distant, W. L. 12. Rhynchotal notes. XXXVIII. Ann. Mag. Nat. Hist., London, ser. 7, **18**, 1906, (18-32).

Distant, W. L. 13. Rhynchotal notes. XXXIX. Ann. Mag. Nat. Hist., London, ser. 7, **18**, 1906, (191-208).

Distant, W. L. 14. On some Ethiopian *Rhynchota*, and synonymical notes. Ann. Mag. Nat. Hist., London, ser. 7, **18**, 1906, (286-293).

Distant, W. L. 15. Rhynchotal notes. XL. Ann. Mag. Nat. Hist., London, ser. 7, **18**, 1906, (349-356).

Distant, W. L. 16. Bibliographical and nomenclatorial notes on the *Rhynchota*. *Entomologist*, London, **39**, 1906, (274).

Distant, W. L. 17. Some undescribed genera and species of South African *Rhynchota*. Cape Town, Trans. S. Afric. Phil. Soc., **16**, 1906, (413-418).

Distant, W. L. 18. Oriental *Reduviidae*. Ann. Mag. Nat. Hist., London, ser. 7, **18**, 1906, (363-371). [*Heteroptera*.]

Distant, W. L. 19. Oriental *Heteroptera*. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (405-417).

Distant, W. L. 20. Descriptions of two cotton pests from West Africa. *Entomologist*, London, **39**, 1906, (269). [*Hemiptera*.]

(s-9720 j)

Distant, W. L. 21. *Insecta transvaalensia*: a contribution to a knowledge of the entomology of South Africa. Part vii, (159-180, pls. xvi, xvii). [Includes a communication by Jordan, K.]

Dittrich. [Zur Apidenfauna Schlesiens.] Zs. Ent., Breslau, N.F., **11**, **31**, 1906, (viii). [*Hymenoptera*.]

Dittrich, Hermann *vide* Ellenberger, Wilhelm.

Dixey, F. A. On the diaposematic resemblance between *Huphina corva* and *Ixias baliensis*. London, Trans. Ent. Soc., **1906**, (521-523, pl. xxxi). [*Lepidoptera*.]

Dobson, H. J. Rare dragon-flies in Norfolk. Ent. Mag., London, **42**, 1906, (34-36). [*Odonata*.]

Docters van Leeuwen, W[illem] M[arius] *vide* Reijuvaan, Jenny.

Dod, F. H. Wolley. Preliminary list of the *Maerolepidoptera* of Alberta N.W.T. Canad. Entomol., **38**, 1906, (45-54, etc., etc.).

Dodd, F. P. Notes upon some remarkable parasitic insects from North Queensland. London, Trans. Ent. Soc., **1906**, (119-124). [*Hymenoptera*.]

Dodd, P. F. v. Rothschild, Hon. Walter.

(**Dodero, Agostino. 1.** Description d'un nouveau Psélaphide aveugle de la France méridionale. Paris, Bul. soc. ent., **1904**, (40-42). [4831 4827 d])

(**Dodero, A. 2.** Sulla validità specifica della *Bathyscia destefanii* Rag. Naturalista sicil., Palermo, **17**, (1904), 1905, (121-123). [*Coleoptera*.])

Doflein, Franz. 1. Termite truffles. [Translation; cf. Zool. Rec., **42**, INSECTA Titles (No. 437). Spolia Zeylan., Colombo, **3**, 1906, (203-209).

Doflein, F. 2. Ostasienfahrt. Erlebnisse und Beobachtungen eines Naturforschers in China, Japan und Ceylon. Leipzig, 1906, (xiii + 511, pls.). 8vo.

Dognin, Paul. 1. *Hétérocères* nouveaux de l'Amérique du Sud. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (106-121, 178-186). [*Lepidoptera*.]

Dognin, P. 2. *Hétérocères* nouveaux de l'Amérique du Sud. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (204-214). [*Lepidoptera*.]

(Dognin, P. 3. Papillons nouveaux de l'Amérique du Sud. *Naturaliste*, Paris, **27**, 1905, (215). [4431 4427 h].)

Dohrn, H. 1. Bemerkungen über Sumatraner *Chaleosiden* und verwandte Arten des malayischen Gebietes. *Stettiner ent. Ztg*, **67**, 1906, (160-182). [*Lepidoptera*.]

Dohrn, H. 2. *Diamuna haenschi* nov. spec. *Stettiner ent. Ztg*, **67**, 1906, (275-276). [*Lepidoptera*.]

Dohrn, H. 3. *Orthopterologisches* aus dem Stettiner Museum. II. Ueber einige *Phanopteriden* des indo-malayischen Gebietes. *Stettiner ent. Ztg*, **67**, 1906, (344-358).

Dombrowski, Ernst von. 1. Einiges über das Sammeln von Höhlenkäfern. *Natur u. Haus*, Dresden, **14**, 1906, (168-170). [*Colcoptera*.]

Dombrowski, E. von. 2. Ueber das Sammeln der grossen Laufkäfer. *Natur u. Haus*, Dresden, **14**, 1906, (359-361). [*Colcoptera*.]

Dombrowski, E. von. 3. Ein *koleopterologischer* Ausflug in Südbosnien. *Insektenbörse*, Leipzig, **23**, 1906, (51-52, 54-55). Bemerkungen dazu v. Paul Born, T.e. (63-64).

Dombrowski, E. von *vide* Schenkling, K.

Doncaster, L. 1. On the maturation of the unfertilised egg, and the fate of the polar bodies, in the *Tenthredinidae* (sawflies). *Q. J. microsc. Sci.*, London, **49**, 1906, (561-589, pls. xxxv, xxxvi). [*Hymenoptera*.]

Doncaster, L. 2. Spermatogenesis of the Hive Bee (*Apis mellifica*). *Anat. Anz.*, Jena, **29**, 1906, (490-491). [*Hymenoptera*.]

Doncaster, L. 3. Collective inquiry as to progressive melanism in *Lepidoptera*. Summary of evidence. *Ent. Rec.*, London, **18**, 1906, (165-168, 206, 222, 248-254).

Doncaster, L. 4. On the colour-variation of the beetle *Gonioctena variabilis*. London, *Proc. Zool. Soc.*, **1905**, (528-536). [*Coleoptera*.]

Doncaster, L. and Raynor, G. H. On breeding experiments with *Lepidoptera*. London, *Proc. Zool. Soc.*, **1906**, (125-133, pl. viii).

Donisthorpe, H. St. J. K. 1. *Pinus pusillus* Stm., a species of *Coleoptera* new to Britain. *Ent. Rec.*, London, **18**, 1906, (45).

Donisthorpe, H. St. J. K. 2. *Hydrochus nitidicollis* Muls., a species new to Britain. *Ent. Rec.*, London, **18**, 1906, (133). [*Coleoptera*.]

Donisthorpe, H. St. J. K. 3. *Dinarda pygmaea* Wasmann, a species of myrmecophilous *Coleoptera* new to Britain. *Ent. Rec.*, London, **18**, 1906, (217).

Donisthorpe, H. St. J. K. 4. Myrmecophilous notes for 1906. *Ent. Rec.*, London, **18**, 1906, (288, 289, 317-319). [*Coleoptera*.]

Donisthorpe, H. St. J. K. 5. Vice-president's address. *Liverpool, Rep. Lancs. Ent. Soc.*, **1905**, (33-41). [*Coleoptera*.]

Donisthorpe, H. 6. The *Coleoptera* of the Isle of Wight. *Leicester, Trans. Lit. Phil. Soc.*, **10**, 1906, (34-54).

Draudt, M. Zur Kenntnis der *Eupithecia*-Eier. *D. ent. Zs. Iris*, Berlin, **18**, (1905), 1906, (280-320, 6 Taf.). [*Lepidoptera*.]

Dreyer, Adolf. Über die Form, Struktur, Entwicklung und Farben der Schuppen der Grossschmetterlinge. *St. Gallen, Jahrb. natw. Ges.*, **1905**, 1906, (261-300, pls. i-x). [*Lepidoptera*.]

Druce, Hamilton H. Note on the genus *Jaspis* Kaye. *Ann. Mag. Nat. Hist.*, London, ser. 7, **17**, 1906, (334). [*Lepidoptera*.]

Druce, Herbert. 1. Descriptions of some new species of *Heterocera* from tropical South America. *Ann. Mag. Nat. Hist.*, ser. 7, **18**, 1906, (77-91).

Druce, Herbert. 2. Descriptions of some new species of *Heterocera* from Peru. *Ann. Mag. Nat. Hist.*, London, ser. 7, **17**, 1906, (406-414).

Dubois, A. Les *Aleochara* gallo-rhénaux, (tableau traduit de l'allemand et abrégé des *Aleochara* du Dr. Max Bernhauer). *Echange*, Moulins, **22**, 1906, (53-55, 61-64, 69-72, 75-80, 86-87, 93-95); **23**, 1907, (102-103, 108-110). [*Coleoptera*.]

Dubois, Raphaël. Rectification à propos d'une Note de M. Gautier (Cl.), [Sur un prétendu caractère différentiel

entre le pigment vert de la soie du *Saturnia Yama-Mai* et les chlorophylles des feuilles de chêne]. Paris, C.-R. soc. biol., **61**, 1906, (614-615). [*Lepidoptera*.]

Dubourgais, A. Néerologie *vide* Fauvel.

Du Buysson, H. 1. Coloration du sexe mâle chez *l'Athoüs undulatus* de Geer. Paris, Bul. soc. ent., **1906**, (54-55). [*Coleoptera*.]

Du Buysson, H. 2. Note sur les *Elatérides* récoltés en Perse par M. J. de Morgan, en 1894. Bul. Muséum, Paris, **1906**, (17-21). [*Coleoptera*.]

Du Buysson, H. 3. Note pour servir à l'histoire de *l'Hoplia cærulea* Drury et autres espèces. Misc. ent., Narbonne, **14**, 1906, (1-8). [*Coleoptera*.]

(Du Buysson, H. 4. *Elatérides* nouveaux et sous-genre nouveau. Paris, Bul. soc. ent., **1904**, (58-60). [4831 4827 *eadf*].)

(Du Buysson, H. 5. Description d'une espèce nouvelle d'*Elatérides*. Paris, Bul. soc. ent., **1905**, (110). [4831].)

(Du Buysson, H. 6. Description d'espèces nouvelles d'*Elatérides*. Paris, Bul. soc. ent., **1905**, (209-211). [4831 4827 *fa*].)

Du Buysson, H. *vide etiam* Buysson, H. du.

Du Buysson, Robert. 1. Résultats scientifiques de la mission J. Charcot. *Hyménoptères*. Bul. Muséum, Paris, **1906**, (21).

Du Buysson, R. 2. Monographie des Vespides appartenant aux genres *Apoica* et *Synoeca*. Paris, Ann. soc. ent., **75**, 1906, (333-362, pls. xi-xviii). [*Hymenoptera*.]

Du Buysson, R. 3. *Vespides* nouveaux d'Afrique. Paris, Bul. soc. ent., **1906**, (189-190). [*Hymenoptera*.]

Du Buysson, R. 4. Les fourmis fuligineuses au Japon. Rev. ent., Caen, **25**, 1906, (101, 102). [*Hymenoptera*.]

Du Buysson, R. 5. *Hyménoptères* nouveaux. Rev. ent., Caen, **25**, 1906, (103-112).

Du Buysson, R. 6. Sur le *Xenos moutoni*. Rev. ent., Caen, **25**, 1906, (11). [*Strepsiptera*.]

Du Buysson, R. *vide etiam* Buysson du.

Ducke, A. 1. Les espèces de *Polistomorphu* Westw. Paris, Bul. soc. ent., **1906**, (163-166). [*Hymenoptera*.]

Ducke, A. 2. Beitrag zur Kenntnis der Solitärbiene Brasiliens. Zs. Hymenopter, Tschendorf, **6**, 1906, (394-400, incomplete).

Ducke, A. 3. Contribution à la connaissance de la faune *hyménoptérologique* du Brésil central et méridional. Rev. ent., Caen, **25**, 1906, (5-11).

Ducke, A. 4. Biologische Notizen über einige südamerikanische *Hymenoptera*. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (17-21).

Ducke, A. 5. Neue Beobachtungen über die Bienen der Amazonasländer. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (51-60). [*Hymenoptera*.]

Ducke, A. 6. Sobre as *Vespidas* sociais do Pará. [On the social *Vespidæ* of Pará.] (10 supplements) Bol. Mus. Goeldi, Pará, **4**, 1906, (652-698, 4 pls.). [*Hymenoptera*.]

(Ducke, A. 7. Nouvelles contributions à la connaissance des Vespides sociaux de l'Amérique du Sud. Rev. ent., Caen, **24**, 1905, (1-24, pl.). [4619-4627 4631].)

Dudgeon, G. C. 1. [As to insects which attack cotton in Egypt.] London, Bull. Imp. Inst., **4**, 1906, (48-52).

Dudgeon, G. C. 2. Occurrence and habits of some species of human biting flies belonging to the families *Tabanidae* and *Muscidae* *Glossina* from the West Coast of Africa. J. Trop. Med., London, **9**, 1906, (326, 327). [*Diptera*.]

Dudinszky, Emil. Ujabb tapasztalatok a tücsökről. [Neuere Beobachtungen über die Grille.] Rovart. L., Budapest, **13**, 1906, (192-193). [*Orthoptera*.]

Duncan, F. Martin. Insect pests of the farm and garden. London, 1906, (1-143).

Dupuy, G. Sur la date d'éclosion de *Smerinthus tiliae*. Paris, Bul. soc. ent., **1906**, (218-219). [*Lepidoptera*.]

Durrant, E. P. 1. Descriptions of new *Mallophaga*. Ohio Nat., Columbus, Ohio, **6**, 1906, (528-530).

Durrant, E. P. 2. Descriptions of new *Mallophaga*, 2. Ohio Nat., Columbus, Ohio, **7**, 1906, (35-37).

Durrant, J. Hartley *vide* Elwes, H. J.

Durrant, J. H. *vide* Walsingham, The Lord.

Dury, Charles. 1. How to collect *Syllopidæ*. Ohio Nat., Columbus, Ohio, **6**, 1906, (443).

Dury, C. 2. Ecological notes on some *Coleoptera* of the Cincinnati region, including seven new species. Cincinnati, Ohio, J. Soc. Nat. Hist., **20**, 1906, (251-256).

Dury, C. 3. Additions to the list of Cincinnati *Coleoptera*. Cincinnati, Ohio, J. Soc. Nat. Hist., **20**, 1906, (257-260).

Dusmet y Alonso, José María. 1. *Himenópteros* de la Sierra de Albarracín, Calamocha y Calatayud. [*Hymenoptera* of the Sierra de Albarracín, Calamocha and Calatayud.] Zaragoza, Bol. Soc. Arag., **5**, 1906, (100-111).

Dusmet y Alonso, J. M. 2. Los Apidos de España. [The *Apidae* of Spain.] II. Género *Coelioxys*. Madrid, Bol. Soc. esp. Hist. nat., **6**, 1906, (134-151). [*Hymenoptera*.]

Dyakowski, B. Atlas motyli krajowych z 218 wizerunkami kolorowymi motyli, ich gasienic i poczwerek na 18 tablicach, z 30 rycinami w tekście. [Tableau des papillons ordinaires de la Pologne, avec 218 dessins colorés des papillons, leurs chenilles et leurs larves; 18 planches et 30 gravures en texte.] Warszawa (M. Arct), 1906, (135 + 8). 16°. rb. 2-70. [*Lepidoptera*.]

Dyar, Harrison G[ray]. 1. Descriptions of new American moths. New York, N.Y., J. Ent. Soc., **14**, 1906, (30-31). [*Lepidoptera*.]

Dyar, H. G. 2. The North American *Nymphulinae* and *Scopariinae*. New York, N.Y., J. Ent. Soc., **14**, 1906, (77-107). [*Lepidoptera*.]

Dyar, H. G. 3. Descriptions of four new species of North American moths. New York, N.Y., J. Ent. Soc., **14**, 1906, (107-108). [*Lepidoptera*.]

Dyar. 4. [Review of] Report and year book of the experiment Station Committee of the Hawaiian Sugar Planters' Association for the year ending September 30, (1905). New York, N.Y.,

J. ent. Soc., **14**, 1906, (111, 112). [*Lepidoptera*.]

Dyar, H. G. 5. Descriptions of some new moths from Arizona. Brooklyn, N.Y., Mus. Inst. Arts Sci., Bull., **1**, 1905, (185, 186). [*Lepidoptera*.]

Dyar, H. G. 6. Descriptions of new North American moths and larvæ. Brooklyn, N.Y., Mus. Inst. Arts Sci., Bull., **1**, 1906, (193-201). [*Lepidoptera*.]

Dyar, H. G. 7. Life histories of North American *Geometridæ*.—64. Psyche, Boston, Mass., **13**, 1906, (22). [*Lepidoptera*.]

Dyar, H. G. 8. Life histories of North American *Geometridæ*.—65. Psyche, Boston, Mass., **13**, 1906, (61-62). [*Lepidoptera*.]

Dyar, H. G. 9. Life histories of North American *Geometridæ*.—66. Psyche, Cambridge, Mass., **13**, 1906, (93-91). [*Lepidoptera*.]

Dyar, H. G. 10. Life histories of North American *Geometridæ*.—67. Psyche, Cambridge, Mass., **13**, 1906, (117-118). [*Lepidoptera*.]

Dyar, H. G. 11. The classification of mosquitoes. Science, New York, N.Y., **23**, 1906, (233-234). [*Diptera*.]

Dyar, H. G. 12. Illustrations of mosquito larvæ. Washington, D.C., Proc. Ent. Soc., **8**, 1906, (15-21). [*Diptera*.]

Dyar, H. G. 13. Key to the known larvæ of the mosquitoes of the United States. Washington, D.C., Cir. U. S. Dept. Agric., Bur. Ent., No. **72**, 1906, (1-6). [*Diptera*.]

Dyar, H. G. and Knab, Frederick. 1. Diagnoses of new species of mosquitoes. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (133-141). [*Diptera*.]

Dyar, H. G. and Knab, F. 2. Notes on some American mosquitoes with descriptions of new species. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (159-172). [*Diptera*.]

Dyar, H. C. and Knab, F. 3. The larvæ of *Culicidæ* classified as independent organisms. New York, N.Y., J. Ent. Soc., **14**, 1906, (169-230, pl.). [*Diptera*.]

Dziędzielewicz, Józef. 1. O niektórych jętkach krajowych. [Sur quel-

ques *Éphémérides* de la Galicie.] Kosmos, Lwów, **31**, 1906, (386-390).

Dziędzielewicz, J. 2. Przegląd rodziny Żłotooków (*Hemerobiinae*) odszukanych w Galicyi i Śląsku po koniec r. 1904. [Catalogue des *Hémérobiines* trouvés en Galicie et en Silésie jusqu'à la fin de l'année 1904.] Kraków, Spraw. Kom. fizyogr., **39**, 1903, (23-31). [*Neuroptera*.]

Dziurzynski, Clemens. *Zygaena*. Ein Vorschlag für eine neue Zusammenstellung der Zygaenen-Arten des europäischen Faunengebietes. Ent. Zs., Guben, **19**, 1906, (184-186). [*Lepidoptera*.]

Eaton, A. E. Aculeate *Hymenoptera* from Burgos, old Castile, collected during the total eclipse of the sun, August 30th, 1905. Ent. Mag., London, **42**, 1906, (96-98).

Ebner, Franz. 1. Zucht von *Rhodinia fugax*. Insektenbörse, Leipzig, **23**, 1906, (7-8, 10-11). [*Lepidoptera*.]

Ebner, F. 2. Zucht von *Aetias luna*. Ent. Zs., Guben, **20**, 1906, (41-43). [*Lepidoptera*.]

Eggers. Zur Verbreitung und Lebensweise einiger europäischer Borkenkäfer. Natw. Zs. Landw., Stuttgart, **4**, 1906, (281-290). [*Coleoptera*.]

Ehrhorn, Edw. M. A few new *Coccidae* with notes. Canad. Entomol., **33**, 1906, (329-335).

Elrod, Morton John. The butterflies of Montana, with keys for determination of species. A nature study bulletin, for the use of teachers, students and others who wish to study the butterflies. Missoula, Bull., Univ. Mont. No. **30**, (Biol. Ser., No. **10**), 1906, (xxvi + 17, 13 pls). [*Lepidoptera*.]

Eltringham, H. The late Professor Packard's paper on the markings of organisms. London, Proc. Ent. Soc., **1906**, (xxxvii-xlvi). [*Lepidoptera*.]

Elwes, H. T., Hampson, Sir George and Durrant, J. Hartley. On the *Lepidoptera* collected by the officers on the recent Tibet frontier commission. London, Proc. Zool. Soc., **1906**, (479-498, pl. xxxvi).

Emerton, J[ames] H. Cocoons and young of *Coniopteryx vicina*. Psyche,

Boston, Mass., **13**, 1906, (74-75). [*Neuroptera*.]

Emery, C[arlo]. 1. Ueber W. H. Ashmeads neues System der Ameisen. Zool. Anz., Leipzig, **29**, 1906, (717-718). [*Hymenoptera*.]

Emery, C. 2. Zur Kenntnis des Polymorphismus der Ameisen. Biol. Centralbl., Leipzig, **23**, (624-630); in: Festschrift für J. Rosenthal, Tl 1, 1906, (33-40). [*Hymenoptera*.]

Emery, C. 3. Note sur *Prenolepis vividula* Nyl. et sur la classification du genre *Prenolepis*. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (130-131). [*Hymenoptera*.]

Emery, C. 4. Rassegna critica delle specie paleartiche del genere *Myrmecocystus*. Bologna, Mem. Acc. sc., Ser. 6, **3**, 1906, (173-187). [*Hymenoptera*.]

Emery, C. 5. Le forme paleartiche di *Camponotus maculatus* F. Bologna, Rend. Acc. sc., N. Ser. **9**, 1905, (27-44). [*Hymenoptera*.]

Emery, C. 6. Revisione delle specie del genere *Atta* appartenenti ai sottogeneri *Moellerius* e *Acromyrmex*. Bologna, Mem. Acc. sc., Ser. 6, **2**, 1905, (39-51). [*Hymenoptera*.]

Emery, C. 7. Studi sulle formiche della fauna neotropica. xxvi. Formiche raccolte dal Prof. F. Silvestri nell'Argentina e nelle regioni limitrofe dell'Uruguay, del Brasile, del Paraguay e del Chile. Firenze, Boll. Soc. Entom., **37**, (1905), Trim. 2^a-4^a, 1906, (107-194). [*Hymenoptera*.]

(Emery, C. 8. Deux fourmis de l'ambre de la Baltique. Paris, B. d. soc. ent., **1905**, (p. 187-189, av. fig.). [1931.]

Enderlein, Günther. 5. Neue *Evyniden*, besonders aus Sumatra. Stettiner ent. Ztg., **67**, 1906, (227-245). [*Hymenoptera*.]

Enderlein, G. 6. Die indoaustralischen und afrikanischen *Cardiochilinen*. Stettiner ent. Ztg., **67**, 1906, (245-252). [*Hymenoptera*.]

Enderlein, G. 7. Zwei neue *Coeliorhys* aus Sumatra. Stettiner ent. Ztg., **67**, 1906, (253-256). [*Hymenoptera*.]

Enderlein, G. 8. 5 neue Arten der *Braconidengattung Braunsia* aus dem Stettiner Museum. Stettiner ent. Ztg., **67**, 1906, (257-265). [*Hymenoptera*.]

Enderlein, G. 9. *Melecta nireipes*, eine neue Biene vom Capland. Stettiner ent. Ztg, 67, 1906, (287-289). [*Hymenoptera.*]

Enderlein, G. 10. Neue Beiträge zur Kenntnis und Klassifikation der *Stephaniden*. Stettiner ent. Ztg, 67, 1906, (289-306). [*Hymenoptera.*]

Enderlein, G. 11. Neue Honigbienen und Beiträge zur Kenntnis der Verbreitung der Gattung *Apis*. Stettiner ent. Ztg, 67, 1906, (331-344). [*Hymenoptera.*]

Enderlein, G. 12. Läusestudien V. Schuppen als sekundäre Atmungsorgane, sowie über eine neue antarktische Echinophthiriiden-Gattung. 12. Beitrag zur Kenntnis der antarktischen Fauna. Zool. Anz., Leipzig, 29, 1906, (659-665). [*Anoplura.*]

Enderlein, G. 13. Zehn neue ausser-europäische *Copeognathen*. Stettiner ent. Ztg, 67, 1906, (306-316).

Enderlein, G. 14. Einige Notizen zur Kenntnis der *Copeognathen* Nordamerikas. Stettiner ent. Ztg, 67, 1906, (317-320).

Enderlein, G. 15. Die *Copeognathen*-Fauna Japans. Zool. Jahrb., Jena, Abt. f. Syst., 23, 1906, (243-256, 2 Taf.).

Enderlein, G. 16. Die australischen *Copeognathen*. Zool. Jahrb., Jena, Abt. f. Syst., 23, 1906, (401-412, 1 Taf.).

Enderlein, G. 17. Aussereuropäische *Copeognathen* aus dem Stettiner Museum. Zool. Jahrb., Jena, Abt. f. Syst., 24, 1906, (81-90, pl. vi).

Enderlein, G. 18. Zur Kenntnis der *Copeognathen*-Fauna Westpreussens. Danzig, Ber. bot.-zool. Ver., 28, 1906, (71-88).

Enderlein, G. 19. Monographie der Coniopterygiden. Zool. Jahrb., Jena, Abt. f. Syst., 23, 1906, (173-242, 6 Taf.). [*Neuroptera.*]

Enderlein, G. 20. Bericht über eine entomologische Reise durch das westpreussische Küstengebiet, vornnehmlich im Kreise Putzig. Danzig, Ber. bot.-zool. Ver., 28, 1906, (67-70).

Enderlein, G. 21. The scaly winged *Copeognatha*. Monograph of the *Amphientomidae*, *Lepidopsoeidae*, and *Lepidillidae* in relation to their morphology and taxonomy. [Written in German,

translated by A. Willey.] *Spolia Zeylan.*, Colombo, 4, 1906, (39-122, pls. A-G.). [*Psoeidae.*]

(Enderlein, G. 22. Ein neuer, zu den Coniopterygiden gehöriger Neuropteren-Typus aus der Umgebung von Berlin. Entomol. Ztg, Wien, 24, 1905, (197-198). [3831])

Engert, H. *Mysia oblongoguttata* L. aberr. *atrata*. D. ent. Zs., Berlin, 1906, (464). [*Coleoptera.*]

Enslin, E. Die Lebensweise der Larve von *Macroceera fasciata* Meig. Zs. wiss. Insektenbiol., Husum, 2, 1906, (251-253). [*Diptera.*]

Ericson, Isaac B. En för Sverige ny *Coleopter*, *Smicrus filicornis* Fairm. [*Smicrus filicornis* Fairm., a *Coleopteron* new to Sweden.] Helsingfors, Medd. Soc. Fauna Fl. Fenn., 31, 1906, (48-49).

Ernst, Christian. Einige Beobachtungen an künstlichen Ameisennestern. (Forts.) Biol. Centralbl., Leipzig, 26, 1906, (210-220). [*Hymenoptera.*]

Escalera, Manuel M. de la. 1. Especies nuevas de *Coleópteros* de Manuecos. [Especies nouvelles de coléoptères de Manuecos.] Madrid, Bol. Soc. esp. Hist. Nat., 6, 1906, (161-162).

Escalera, M. M. de la. 2. Adiciones al sistema de las especies ibéricas del género *Asida*. Una *Globasida* nueva de la provincia de Murcia. [Additions to the taxonomy of Iberian species of the genus *Asida*. A new *Globasida* from Murcia.] Madrid, Bol. Soc. esp. Hist. nat., 6, 1906, (193). [*Coleoptera.*]

Escalera, M. M. de la. 3. De la importancia de la nerviacion de las alas en los *Coleópteros* para una clasificación natural. [De l'importance de la neuration des ailes des coléoptères pour une classification naturelle.] Madrid, Bol. Soc. esp. Hist. nat., 6, 1906, (194-198).

Escalera, M. M. de la. 4. Una *Stigmodera* paleártica. [Une *Stigmodera* paléarctique.] Madrid, Bol. Soc. esp. Hist. Nat., 6, 1906, (199-203). [*Coleoptera.*]

Escalera, M. M. de la. 5. Una nueva *Alphasida* de Motril. [Une nouvelle *Alphasida* de Motril.] Madrid, Bol. Soc. esp. Hist. Nat., 6, 1906, (235). [*Coleoptera.*]

Escalera, M. M. de la. 6. Sobre la variabilidad de las especies de *Alphasida* de las ramas orientales y descripción de especies nuevas. [Sur la variabilité des espèces d'*Alphasida* des "ramas orientales" et description d'espèces nouvelles.] Madrid, Bol. Soc. esp. Hist. Nat., **6**, (380-384). [*Coleoptera*.]

Escherich, K[arl]. 1. Ueber die Biologie der Ameisen. Tl 2. Die neueren Arbeiten (1905-1906). (Zusammenfassende Uebersicht.) Zool. Centralbl., Leipzig, **13**, 1906, (405-410). [*Hymenoptera*.]

Escherich, K. 2. Beiträge zur Kenntnis der *Thysanuren*. 2. Reihe. Zool. Anz., Leipzig, **30**, 1906, (737-749).

Escherich, K. 3. Die Ameisen. Schilderung ihrer Lebensweise. Braunschweig (F. Vieweg u. S.), 1906, (xx + 232). 24 cm. 7 M. [*Hymenoptera*.]

Evans, J. D. List of *Coleoptera* in the collection of J. D. Evans, Trenton, Ont., which have not heretofore been recorded as having been taken in Canada. Canad. Entomol., **38**, 1906, (96-100).

Evans, William. Some further records of *Siphonaptera* (fleas) from the Forth area. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (161-163 and 241).

Evers, J. Copal-Schmetterlinge. Ent. Jahrb., Leipzig, **16**, 1907, (129-132). [*Lepidoptera*.]

Everts, Ed. *Coleoptera* in de Omstreken van Oldenzaal, Denekamp en Losser verzameld, Juli 1906. [*Coleoptera* collected in July, 1906, in the neighbourhood of Oldenzaal, Denekamp and Losser.] 's Gravenhage, Ent. Ned. Ber. Ver., **2**, 1906, (137-140).

Eysell, Adolf. Die Stechmücken. [In] Handbuch der Tropenkrankheiten, hrsg. v. C. Mense. Bd 2. Leipzig (J. A. Barth), 1905, (44-94, 5 Taf.).

Fabritius, Gunnar. Anmärkningsvärda fjärilar. [Notable *Lepidoptera*.] Helsingfors, Medd. Soc. Fauna Fl. Fenn., **32**, 1906, (11-12).

(Fagniez, Ch.) Notes et observations sur *Dolichopoda palpata* Sulz. et sur la présence certaine en France de cet orthoptère cavernicole. Paris, Bul. soc. ent., **1903**, (342-343). [3831 3827 df]

Fairchild, David and Barrett, O. W. Notes on the copulation of *Bombus ferridus*. Washington, D.C., Proc. Ent. Soc., **8**, 1906, (13-14, pl.). [*Hymenoptera*.]

Fairmaire, L. 1. Notice nécrologique sur le Dr. Joseph-Alexandre Laboulbène. Paris, Ann. Soc. ent., **75**, 1906, (63-66).

Fairmaire, L. 2. *Coléoptères nouveaux de Madagascar* faisant partie des collections du Muséum. Bul. Muséum, Paris, **1906**, (273-283).

(Fairmaire, L.) 3. Description d'une nouvelle espèce de Goliathide provenant de l'Ukumi. Paris, Bul. soc. ent., **1903**, (261-263, av. fig.). [4831 4827 jf]

(Fairmaire, L.) 4. Descriptions de quelques espèces nouvelles de Lagriides de Bornéo. Paris, Bul. soc. ent., **1903**, (300-301). [4831 4827 cg]

(Fairmaire, L.) 5. *Coléoptères hétéromères* recueillis par M. Baer dans le Haut-Péron et le Tucuman. Paris, Ann. Soc. ent., **72**, 1903, (461-468). [4831]

(Fairmaire, L.) 6. Description de *Coléoptères de la République Argentine*. Paris, Bul. soc. ent., **1904**, (61-64). [4831 4827 hi]

(Fairmaire, L.) 7. Description de *Cicindélides et de Carabides nouveaux de Madagascar*. Paris, Bul. soc. ent., **1904**, (128-130). [4831 4827 fh]

(Fairmaire, L.) 8. Description de trois *Coléoptères du Brésil*. Paris, Bul. soc. ent., **1904**, (154-156). [4831 4827 hh]

(Fairmaire, L.) 9. Description d'un *Prione nouveau de la faune paléarctique*. Paris, Bul. soc. ent., **1905**, (79). [4831]

(Fairmaire, L.) 10. Description d'un nouveau genre de *Cétonides*. Paris, Bul. soc. ent., **1905**, (91-92). [4831]

(Fairmaire, L.) 11. Description de *Coléoptères hétéromères de la République Argentine*. Paris, Ann. soc. ent., **74**, 1905, (289-303). [4831 4827 hi]

(Fairmaire, L.) 12. *Coléoptères (Lamellicornes)*. Mission Pavie, **3**, 1904, (86-90). [4831 4827 ed]

(Fairmaire, L.) 13. Deux espèces nouvelles de *Longicornes du Tonkin*. Mission Pavie, **3**, 1904, (145-146). [4831 4827 ed]

Fairmaire, Léon. Obit. *vide* Horn, Walther.

Fall, H[enry] C[linton]. 1. On the genus *Trachykele*, with notes and descriptions of other North American *Buprestidae*. Ent. News, Philadelphia, Pa., **17**, 1906, (161-163). [*Coleoptera*.]

Fall, H. C. 2. A new *Platycerus*, and a new *Pleocomia*. Ent. News, Philadelphia, Pa., **17**, 1906, (393-395). [*Coleoptera*.]

Fall, H. C. 3. New species of American *Coleoptera* of the tribe *Zygopini*. Philadelphia, Pa., Trans. Amer. Ent. Soc., **32**, 1906, (53-61).

Fall, H. C. 4. A review of the North American species of *Notiophilus*. Psyche, Cambridge, Mass., **13**, 1906, (79-92). [*Coleoptera*.]

Fall, H. C. 5. New *Coleoptera* from the South-west. II. Canad. Entomol., **38**, 1906, (113-118).

(Fall, H. C. 6. Notes on some Californian *Buprestidae*. Ent. News, Philadelphia, Pa., **16**, 1905, (71-74). [4827 *gi* 4831].)

(Fall, H. C. 7. Two new species of *Aphodius*. Ent. News, Philadelphia, Pa., **16**, 1905, (129-131). [4827 *gi* 4831].)

Fassl, A. H. *Polygonia c-album* ab. *f-album* Esp. bei Berlin. Ent. Zs., Guben, **20**, 1906, (110). [*Lepidoptera*.]

Fauré-Frémiet, Emmanuel. Le commensalisme des *Opercularia*. Les facteurs de la spécificité. Paris, C.-R. soc. biol., **61**, 1906, (583-585).

[Faussek, V.] 1. Фаусекъ, В. Биологическія изслѣдованія въ Закаспійской Области. [Biologische Untersuchungen in Transkaspien.] St. Petersburg, Zap. Russ. Geogr. Obsč., **27**, 2, 1906, (1 + 1-192 + 1 mit 64 Abb. i. T. u. 4 Taf.).

[Faussek, V. A.] 2. Фаусекъ, В. А. . . . О „заблужденіи инстинкта“ у *Ateuchus*. [Ueber Verirrungen des Instinkts bei *Ateuchus*.] St. Petersburg, Hor. Soc. Ent. Ross., **37**, 1906, (88). [*Coleoptera*.]

Fauvel, Albert. 1. Sur le *Cephenium punctipenne* Fvl. Rev. ent., Caen, **25**, 1906, (12-13). [*Coleoptera*.]

Fauvel, A. 2. Essai sur l'Entomologie de la haute Auvergne (mont Dore et Plomb du-Cantal), 4^e supplément.

Rev. ent., Caen, **25**, 1906, (23-28). [*Coleoptera*.]

Fauvel, A. 3. A. Dubourgais. Rev. ent., Caen, **25**, 1906, (28).

Fauvel, A. 4. Faune analytique des *Coléoptères* de la Nouvelle-Calédonie. 4^e partie. Rev. ent., Caen, **25**, 1906, (29-100).

Fauvel, A. 5. *Staphylinides* de la Guinée espagnole. Madrid, Mem. Soc. esp. Hist. nat., **1**, 1906, (285-292). [*Coleoptera*.]

(Fauvel, A. 6. *Staphylinides* de l'Hindoustan et de la Birmanie. Rev. ent., Caen, **23**, 1904, (43-70). [4827 *cf* 4831].)

(Fauvel, A. 7. *Staphylinides* nouveaux du Sinaï et de la mer Rouge. Rev. ent., Caen, **23**, 1904, (71-74). [4827 *ei* 4831].)

(Fauvel, A. 8. *Geostiba* nouvelle d'Algérie. Rev. ent., Caen, **23**, 1904, (75). [4827 *fa* 4831].)

(Fauvel, A. 9. *Staphylinides* exotiques nouveaux (2^e Partie). Rev. ent., Caen, **23**, 1904, (76-112); (3^e Partie), **24**, 1905, (113-147). [4831].)

(Fauvel, A. 10. Faune analytique des *Coléoptères* de la Nouvelle-Calédonie, (2^e partie). Rev. ent., Caen, **23**, 1904, (112-208). [4827 *il* 4831].)

(Fauvel, A. 11. Faune analytique des *Coléoptères* de la Nouvelle-Calédonie, (3^e Partie). Rev. ent., Caen, **24**, 1905, (209-244). [4827 *il* 4831].)

(Fauvel, A. 12. *Staphylinides* myrmécophiles du Brésil. Rev. ent., Caen, **23**, 1904, (276-283). [4619 4631].)

(Fauvel, A. 13. *Platyprosopus* nouveau d'Afrique. Rev. ent., Caen, **23**, 1904, (275). [4827 *fb* 4831].)

(Fauvel, A. 14. Les *Staphylinidae* du Thierwelt deutsch. Ost-Africa. Notes et descriptions. Rev. ent., Caen, **23**, 1904, (284-294). [4827 *ff* 4831].)

(Fauvel, A. 15. *Staphylinides* de Nouvelle-Guinée recueillis par l'expédition hollandaise (1903). Rev. ent., Caen, **23**, 1904, (294-296). [4827 *ia* 4831].)

(Fauvel, A. 16. *Staphylinides* nouveaux de Madagascar. Rev. ent., Caen, **23**, 1904, (149-184). [4827 *fh* 4831].)

- (Fauvel, A. 17. Sur une tribu nouvelle de *Staphylinidae* (tribu *Neophoni*). Rev. ent., Caen, **24**, 1905, (98-100, av. fig.). [4827 4831])
- (Fauvel, A. 18. Sur quelques *Dromius* de Madère et des Canaries. Rev. ent., Caen, **24**, 1905, (189-190). [4827 lb 4831].)
- (Fauvel, A. 19. Trois Staphylinides nouveaux de Barbarie. Rev. ent., Caen, **24**, 1905, (192-193). [4827 fa 4831])
- (Fauvel, A. 20. Staphylinides nouveaux d'Afrique tropicale. Rev. ent., Caen, **24**, 1905, (194-198). [4827 f 4831].)
- Favre, Jules *vide* Thiébaud, Maurice.
- Federley, Harry. 1. Den experimentella lepidopterologie och dess historia. [Experimental lepidopterology and its history.] Entomol. Tidskr., Stockholm, **27**, 1906, (143-157).
- Federley, H. 2. *Lepidopterologische Temperatur-Experimente, mit besonderer Berücksichtigung der Flügelschuppen.* Helsingfors, 1906, (1-116, pls. i-iii). 4to.
- Felsche, Carl. Synonymische Bemerkungen über einige Scarabaeiden aus der Tribus der Dynastini und Beschreibung einer neuen Art. D. ent. Zs., Berlin, **1906**, (349-352). [*Coleoptera*.]
- Felt, E[phraim] P[orter]. 1. Diversities among New York mosquitoes. Reprinted from the proceedings of the Second Anti-Mosquito convention, held in New York city, December 15 and 16, 1904, under the auspices of the American mosquito extermination society. New York, 1906, (32, pl.). [*Diptera*.]
- Felt, E. P. 2. The gypsy and brown tail moths. Albany, N.Y., St. Educ. Dept., Mus. Bull., No. **103**, 1906, (5-42, pl.). [*Lepidoptera*.]
- Felt, E. P. 3. 21st report of the State entomologist on injurious and other insects of the state of New York, 1905. Albany, N.Y., St. Educ. Dept., Mus. Bull., No. **104**, 1906, (49-186, pl.). [*Diptera*.]
- Felt, E. P. 4. Insects affecting park and woodland trees. Albany, N.Y., Mem. St. Mus., **8**, (1-459, 48 pls.).
- Felt, E. P. 5. Insects affecting park and woodland trees. Vol. I. Albany, N.Y. St. Educ. Dept., Mus. Mem., **8**, 1905, (3-435, pls. i-xliv).
- Felt, E. P. 6. Insects affecting park and woodland trees. Vol. 2. Albany, N.Y., St. Educ. Dept., Mus. Mem., **8**, 1906, (1 l. + 333-877, pl.).
- Felt, E. P. 8. Grapevine rootworm. Albany Univ., N.Y. Rep. St. Mus., **1903**, **57**, Pt. 2, 1905, (1-51, pls. i-vi). [*Coleoptera*.]
- [Felt, E. P. 9. 20th report of the State entomologist on injurious and other insects of the State of New York. 1904. Albany, N.Y. St. Mus. Bull., **97**, (Entomology **24**), 1905, (359-431).]
- [Felt, E. P. 10. Studies in *Culicidae*. Albany, N.Y. St. Mus. Bull., **97**, (Entomology **24**), 1905, (442-497, 562-564, pls. i-xix). [*Diptera*.]]
- Fermi, Claudio e Cano-Brusco, Umberto. Ricerche sulla diffusione delle larve di zanzare malarifere a Terranova Pausania e nei dintorni in rapporto alle bonifiche. Roma, Atti Soc. studi malaria, **4**, 1903, (531-533). [*Diptera*.]
- Fermi, Claudio e Martinetti, Paolo. La diffusione delle larve di *Anopheles* in Porto Torres e dintorni e in Nurra (Sardegna). Roma, Atti Soc. studi malaria, **4**, 1903, (534-542). [*Diptera*.]
- Fernald, Henry T. The digger wasps of North America and the West Indies belonging to the subfamily *Chlorioninae*. Washington, D.C., Smithsonian Inst., U. S. Nation Mus. Proc., **31**, No. 1487, 1906, (291-423, pls. vi-ix). [*Hymenoptera*.]
- Fernald, Mrs. M. E. The type of the genus *Coccus*. Canad. Entomol., **33**, 1906, (125).
- Fernekes, Valentine. List of *Lepidoptera* occurring in Milwaukee county. Milwaukee, Bull. Wis. Nat. Hist. Soc., N. Ser., **4**, 1906, (39-58).
- (Ferton, Ch. Notes détachées sur l'instinct des Hyménoptères mellifères ravisseurs (3^e série) avec la description de quelques espèces. Paris, Ann. soc. ent., **74**, 1905, (56-104, av. pl.). [4631].)
- Fiebrig, Karl. Eine morphologisch und biologisch interessante Dipterenlarve aus Paraguay. (*Acanthomera teretruncum* sp. n. Fiebrig.) Zs. wiss. Insektenbiol., Husum, **2**, 1903, (316-323, 344-347). [*Diptera*.]

Fielde, Adele M. 1. Longevity of a velvet ant. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **11**, 1906, (265-266). [*Hymenoptera*.]

(Fielde, A. M. 2. Observations on the progeny of virgin ants. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **9**, 1905, (355-360). [4611]) [*Hymenoptera*.]

(Fielde, A. M. 3. Temperature as a factor in the development of ants. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **9**, 1905, (361-367). [4611].) [*Hymenoptera*.]

[Filipitschenko, J] Филиппченко, Ю. Жизнь насекомых окрестностей Бологова. [Die niederen Insecten der Umgebung von Bologoje.] St. Petersburg, Ber. Süßwasserst. Naturf. Ges., **2**, 1906, (142-151); deutsches Rés., (151-152).

Filipitschenko, J. vide etiam Semenov, A.

Fiori, Andrea. 1. Revisione delle specie italiane a me note del genere *Malthodes* Kiesw. (Continuaz. e fine). Riv. Coleotter. ital., Camerino, **4**, 1905, (1-26). [*Coleoptera*.]

Fiori, A. 2. Descrizione di quattro specie dell'Emilia credute nuove. Riv. Coleotter. ital., Camerino, **4**, 1906, (257-268). [*Coleoptera*.]

Fiori, A. 3. Una breve escursione in Sicilia [*Coleotteri*]. Naturalista sicil., Palermo, **18**, 1906, (200-211).

Fiori, A. 4. Alcuni *Mastigus* Latr. * raccolti presso la stazione di Chienti-Serra Capriola nelle Puglie. Naturalista sicil., Palermo, **18**, 1906, (242-246). [*Coleoptera*.]

(Fiori, A. 5. Due nuove specie di *Malthodes* Kies. Naturalista sicil., Palermo, **17**, 1904, (74-76).)

(Fiori, A. 6. Sull'importanza della scultura quale carattere diagnostico nella classificazione dei *Bythinus* ed altri *Pselaphidae*. Naturalista sicil., Palermo, **17**, 1905, (269-272).)

(Fiori, A. 7. Descrizione di una nuova specie di Histeride italiano, *Xenonychus rotundatus*. Naturalista sicil., Palermo, **18**, N. 1, 1905, (4-7). [4831].)

(Fiori, A. 8. Alcuni appunti sulle Cetonie di Sicilia. Naturalista sicil.,

Palermo, **18**, N. 1, 1905, (9-10). [4831 4827 dh].)

(Fiori, A. 9. *Xenonychus rotundatus* Fiori è sinonimo di *Saprinus conjungens* Payk. Naturalista sicil., Palermo, **18**, N. 4, 1905, (96). [4831].)

Fischer, E. 1. Ueber die Ursachen der Disposition und über Frühsymptome der Raupenkrankheiten. Biol. Centralbl., Leipzig, **26**, 1906, (448-463, 531-544). [*Lepidoptera*.]

Fischer, E. 2. Ueber Parasitismus bei der *Papilio machaon*-Puppe. Ent. Zs., Guben, **19**, 1906, (186-187). [*Lepidoptera*.]

Fischer, Herminius. Adalék Kassa környékének lepke faunájához. [Beiträge zur Lepidopterenfauna von Kassa.] Rovart. L., Budapest, **13**, 1906, (105-107, 124-127, 150-153).

Fiske, W. F. A new species of the Curculionid genus *Paraplinthus*. Washington, D.C., Proc. Ent. Soc., **8**, 1906, (31-32). [*Coleoptera*.]

Flach, K. 1. Zwei neue *Coleopteren* aus Portugal. Entomol. Ztg., Wien, **25**, 1906, (119-122).

Flach, K. 2. Biologische Plaudereien. Entomol. Ztg., Wien, **25**, 1906, (226-230). [*Coleoptera*.]

(Flach, K. 3. *Trogloorhynchus paganetti* n. sp. (*Solariella* nov. subgen.). Entomol. Ztg., Wien, **24**, 1905, (318-319). [4831].)

Fleischer, Anton. 1. Eine neue Varietät des *Colan riennense* Herbst. Entomol. Ztg., Wien, **25**, 1906, (37). [*Coleoptera*.]

Fleischer, A. 2. Kritische Studien über *Liodes*-Arten. III. Teil. Entomol. Ztg., Wien, **25**, 1906, (131-134). [*Coleoptera*.]

Fleischer, A. 3. Eine neue *Liodes*-Art aus Mähren und Böhmen. Entomol. Ztg., Wien, **25**, 1906, (147-148). [*Coleoptera*.]

Fleischer, A. 4. Kritische Studien über *Liodes*-Arten. IV. Teil. Entomol. Ztg., Wien, **25**, 1906, (201-209). [*Coleoptera*.]

(Fleischer, A. 5. Eine neue Art der *Coleopteren*-Gattung *Bythinus* aus Dalmatien. Entomol. Ztg., Wien, **20**, 1901, (144). [4831].)

(Fleischer, A. 6. Flugzeit von *Colonia* und *Liodes* in Bilowitz und Adamsthal in der Umgebung von Brünn. Entomol. Ztg., Wien, **22**, 1903, (259-268). [4819 4827 dk 4831].)

(Fleischer, A. 7. Biologisches über *Liodes*-Arten. Entomol. Ztg., Wien, **23**, 1904, (251-251). [4819 4831].)

(Fleischer, A. 8. Kritische Studien über *Liodes*-Arten. Entomol. Ztg., Wien, **24**, 1905, (269-273, 313-316). [1831].)

Fletcher, James. The pupation of *Euraneusa antiopi*, L. Canad. Entomol., **38**, 1906, (411-412). [*Lepidoptera*.]

Fleutiaux, Ed. 1. *Elatérides* nouveaux de Madagascar. Paris, Bul. soc. ent., **1906**, (199-200). [*Coleoptera*.]

Fleutiaux, E. 2. Description de quatre *Elatérides* nouveaux. Paris, Bul. soc. ent., **1906**, (211-213). [*Coleoptera*.]

Fleutiaux, M. E. 3. *Elatéridae*. Nova Guinea, Résultats de l'Expédition scientifique Néerlandaise à la Nouvelle-Guinée en 1903, sous les auspices de Arthur Wichmann, Chef de l'Expédition. Leide (E. J. Brill), **5**, Livr. 1, 1906, (31-32). 31 cm. [*Coleoptera*.]

(Fleutiaux, E. 4. *Elatéridae* recueillis par le Dr. Achille Tellini pendant le voyage qu'il fit en Erythrée (octobre 1902 à février 1903). Paris, Bul. soc. ent., **1903**, (250-251). [4831 4827 fb].)

(Fleutiaux, E. 5. Description d'un *Cardiophorus* nouveau de Madagascar. Paris, Bul. soc. ent., **1904**, (12). [4831 4827 fh].)

(Fleutiaux, E. 6. Description d'un *Sternotomis* nouveau de Mohe'li (Comores). Paris, Bul. soc. ent., **1905**, (7-8). [4831 4827 fh].)

(Fleutiaux. 7. *Elatéridae* (Voyage de M. Maurice Maindron dans l'Inde méridionale 1901, 8^e mémoire). Paris, Ann. soc. ent., **74**, 1905, (319-330). [4831 4827 cf].)

(Fleutiaux, E. 8. Coléoptères (*Elatérides*). Mission Pavie, **3**, 1904, (94-96).)

Floersheim, Cecil. On some enemies of the diurnal *Lepidoptera*. Ent. Rec., London, **18**, 1906, (36-39).

(Foerster, F. Libellen von Tonkin. Entomol. Ztg., Wien, **24**, 1905, (19-24). [3827 cd 3831].)

Förster, F. 1. Neotropische Libellen. [Ill.] Insektenbörse, Leipzig, **23**, 1906, (15-16). [*Odonata*.]

Förster, F. 2. Die Libellulidengattungen von Afrika und Madagaskar. Mannheim, Jahresber. Ver. Natk., **71-72** (1904-1905), 1906, (1-71.) [*Odonata*.]

Förster, F. 3. Libellen. (Forschungsreise durch Südschoa, Galla u. die Somaliländer v. C. Frhr. v. Erlanger.) Wiesbaden, Jahrb. Ver. Natk., **59**, 1906, (299-344, mit 1 Taf.). [*Odonata*.]

Fologne, E. [and others]. Discours (à l'occasion du cinquantenaire de la Société). Bruxelles, Mém. soc. ent. Belgique, **12**, 1906, (2-19).

Folsom, Justus Watson. Entomology, with special reference to its biological and economic aspects. Philadelphia (Blakiston), 1906, (vii + 485, with col. front., illus., pl.). 23 cm.

Folsom, J. W. and Welles, Miriam U. 1. Epithelial degeneration, regeneration and secretion in the mid-intestine of *Collembola*. Science, New York, N.Y., **23**, 1906, (633).

Folsom, J. W. and Welles, M. U. 2. Epithelial degeneration, regeneration and secretion in the mid-intestine of *Collembola*. Urbana, Stud. Univ., Ill., **2**, No. 2, 1906, (1-40).

Forbes, S. A. The corn root-aphis and its attendant ant. (*Aphis maidiradicis* Forbes and *Lasius niger* L., var. *americanus* Emery.) Washington, D.C., Bull. U. S. Dept. Agric., Bur. Ent., No. **60**, 1906, (29-41). [*Aphidae*.]

Forbes, William T[owbridge] M[erri-field]. Field tables of *Lepidoptera*. Worcester, Mass., 1906, (141, with illustr.). 23.5 cm.

Forel, A. 1. Fourmis d'Asie mineure et de la Dobrudscha récoltées par M. le Dr. Oscar Vogt et Mme. Cécile Vogt, Dr. méd. Bruxelles, Ann. soc. ent. Belgique, **50**, 1906, (187-190). [*Hymenoptera*.]

Forel, A. 2. Fourmis néotropiques nouvelles ou peu connues. Bruxelles, Ann. soc. ent. Belgique, **50**, 1906, (225-249). [*Hymenoptera*.]

Forel, A. 3. Les fourmis de l'Himalaya. Lausanne, Bul. Soc. Sci. Nat., **42**, 1906, (79-94). [*Hymenoptera*.]

Forestier, L. De l'odeur chez les abeilles. Abeille et sa culture, Huy, 1905, (231-232, 248-251).

Formánek, R. 1. Bemerkungen über bekante Rüssler und Beschreibung einer neuen Art. Entomol. Ztg., Wien, 25, 1906, (38-40). [*Coleoptera.*]

Formánek, R. 2. Ein neuer Grottenkäfer aus Montenegro. Entomol. Ztg., Wien, 25, 1906, (151-152).

Forsius, Runar. 1. En för finska faunan ny Microlepidopter. [A *Microlepidopteron* new to the Finnish fauna.] Helsingfors, Medd. Soc. Fauna Fl. Fenn., 31, 1906, (68, 69).

Forsius, R. 2. Tre nykomlingar till Finlands stekelfauna. [Three additions to Finlands *Hymenoptera.*] Helsingfors, Medd. Soc. Fauna Fl. Fenn., 31, 1906, (70). [*Hymenoptera.*]

Foster, F. H. Further breeding experiments with *Haploa*. Psyche, Boston, Mass., 13, 1906, (29-32, pls. ii and iii). [*Lepidoptera.*]

Foulquier, Gédéon. Observations sur quelques Lépidoptères du département des Bouches-du-Rhône. Feuille jeunes natural., Paris, sér. 4, 36, 1906, (117-118); c.f. **Anfric, Emile.** T.c. (132-133).

Fountaine, Margaret, E. Algerian butterflies in the spring and summer of 1904. Entomologist, London, 39, 1906, (84-89, 107-109). [*Lepidoptera.*]

Foureaux, Notes sur la faune. [in] Documents scientifiques de la mission saharienne (mission Fourcau Lamy), fasc. 3. Paris, 1905 (995-1062). [*Orthoptera* 2 spp. n. by **Bolívar.**]

Fowler, W. W. 1. A new species belonging to the genus *Antichira*, Eschscholtz. Ent. Mag., London, 42, 1906, (98). [*Coloptera.*]

Fowler, W. W. 2. Insects. Victoria history of Berkshire, 1, 1906, (71-119).

Franceschini, Felice. Sulla pretesa antica presenza in Italia della *Diaspis pentagona*. Milano, Atti Soc. ital. sc. nat., 45, 1906, (62-70). [*Coccidae.*]

François, Ph[ilippe]. 1. Captures [d'*Legidalia rufa*, à Wimereux]. Paris, Bul. soc. ent., 1906, (162). [*Coloptera.*]

(François, Ph. 2. Sur divers Géotrupes du sous-genre *Thorectes* Muls. (rectification et synonymie). Paris, Bul. soc. ent., 1904, (64-67). [4831])

(François, Ph. 3. Sur divers Géotrupes du sous-genre *Thorectes* Muls. (2^e Note). Paris, Bul. soc. ent., 1904, (139-143). [4831 4827.]

Frank, K. Die Gäste der Ameisen. Natur u. Offenb., Münster, 52, 1906, (129-149). [*Hymenoptera.*]

Frey, Richard. 1. Tre för vår fauna nya dipterer. [Three *Diptera* new to our fauna.] Helsingfors, Medd. Soc. Fauna Fl. Fenn., 32, 1906, (40).

Frey, R. 2. Tvenne för vår fauna nya dipterer. [Two *Diptera* new to our fauna.] Helsingfors, Medd. Soc. Fauna Fl. Fenn., 32, 1906, (67).

Frey, R. 3. För Finlands fauna nya dipterer. [*Diptera* new to Finlands fauna.] Helsingfors, Medd. Soc. Fauna Fl. Fenn., 32, (107-109).

Frey-Gessner, E. *Hymenoptera* Helvetiae. *Apidae.* (277-340). [Published with Mitt. Schweiz. ent. Ges.]

Friederichs, Karl. 1. Zur Biologie der *Embiiden*. Neue Untersuchungen und Übersicht des Bekannten, mit Beiträgen über die Systematik und postembryonale Entwicklung mediterraner Arten. Berlin, Mitt. zool. Mus., 3, 1906, (213-240).

Friederichs, K. 2. Beiträge zur Entwicklungsgeschichte und Histologie von Arthropoden. 1. Untersuchungen über die Entstehung der Keimblätter und Bildung des Mitteldarms bei Käfern. Halle, Nova Acta Leop., 85, 1906, (256-383, Taf. xxv-xxxi). [*Coloptera.*]

Friese, H. 1. Neue Schmarotzerbienen aus der neotropischen Region. Zs. Hymenopter., Teschendorf, 6, 1906, (118-121). [*Hymenoptera.*]

Friese, H. 2. Neue Bienenarten aus Chile und Argentina. Zs. Hymenopter., Teschendorf, 6, 1906, (169-176). [*Hymenoptera.*]

Friese, H. 3. Die Bienen-Gattung *Oediscelis* Philipp. und *Pseudiscelis* Friese. Zs. Hymenopter., Teschendorf, 6, 1906, (225-228). [*Hymenoptera.*]

Friese, H. 4. Dritter Nachtrag zu den BienenGattungen *Caupolicana*, *Piloglossa* etc. Zs. Hymenopter., Teschendorf, 6, 1906, (229-231). [*Hymenoptera.*]

Friese, H. 5. Eine neue Bienengattung aus Chile und Argentinien. Zs. Hymenopter., Teschendorf, **6**, 1906, (374-380). [*Hymenoptera*.]

Friese, H. 6. Ueber die systematische Stellung der *Strepsipteren*. Zool. Anz., Leipzig, **29**, 1906, (737-740).

Frings, Karl. 1. *Valgus hemipterus* L. Ent. Zs., Guben, **20**, 1906, (22). [*Coleoptera*.]

Frings, C. 2. Etwas über die Entwicklung von *Cossus cossus* L. Ent. Zs., Guben, **20**, 1906, (53). [*Lepidoptera*.]

(Frionnett, C. Chenilles de Macro-lépidoptères français *Geometrae* (Phalènes). St. Dizier, Mém. soc. let. sci., **9**, 1904, 2^e fasc., (xvi + 333). [4415 4431])

Fritsch, A. Seltsames Gelüst einer *Plusia gamma*-Raupe. [Frisst *Hippuris vulgaris*.] Insektenbörse, Leipzig, **23**, 1906, (144-148). [*Lepidoptera*.]

Fritsch, Karl. Beobachtungen über blütenbesuchende Insekten in Steiermark, 1904, Wien, Verh. ZoolBot. Ges., **1906**, (135-160).

Fritzsche, Arthur. *Sat[urnia] pavonia*. Konservierung des Geschlechtsaromas beim ♀. Ent. Zs., Guben, **20**, 1906, (94); Bemerkung dazu v. Viktor Calmbach, *op. cit.* (173).

Froggatt, Walter W[ilson]. 1. Domestic Insects. Ants. With a catalogue of Australasian species. Agric. Gaz., Sydney, N.S.W., **16**, pt. 9, 1905, (861-866, with 1 pl.) N.B. Catalogue not here published. Reprinted with catalogue as Miscellaneous Publications [of Agric. Dept. N.S.W.] No. 889, 1906, (1-35, 1 pl.).

Froggatt, W. W. 2. Codling moth parasites. Agric. Gaz., Sydney, N.S.W., **17**, 1906, (387-395).

Froggatt, W. W. 3. Domestic Insects: Cockroaches (*Blattidae*). Agric. Gaz., Sydney, N.S.W., **17**, pt. 5, 1906, (446-447, pl.).

Froggatt, W. W. 4. The Codling moth (*Carpocapsa pomonella*, Linn.). Agric. Gaz., Sydney, N.S.W., **17**, pt. 6, 1906, (539-549, 1 pl.).

Froggatt, W. W. 5. Mealy Bugs No. 1. (*Monophlebinae*). Agric. Gaz.,

Sydney, N.S.W., **17**, pt. 8, 1906, (770-779, 1 pl.). [*Coccidae*.]

Froggatt, W. W. 6. Thrips or Black Fly (*Thysanoptera*). Agric. Gaz., Sydney, N.S.W., **17**, pt. 10, 1906, (1005-1011, 1 pl.).

Froggatt, W. W. 7. Notes on the Hymenopterous genus *Megalura* Westw., with descriptions of new species. Sydney, N.S.W., Proc. Linn. Soc., **31**, 1906, (399-407).

(Froggatt, W. W. 8. The Insects of the Kurrajong (*Brachychiton populneum*). Agric. Gaz., Sydney, N.S.W., **16**, 1905, (226-234, with two pls.). [4627 *ic* 4631]).

(Froggatt, W. W. 9. Locusts and grasshoppers. The *Gryllidae* and wingless *Locustidae*. Agric. Gaz., Sydney, N.S.W., **16**, 1905, (477-481, with 1 pl.). [3803 3827 *ic*])

(Froggatt, W. W. 10. Stick or leaf insects, with an account of *Podacanthus wilkinsoni* as a forest pest, and the spiny leaf insect. *Extatosoma tiaratum*, in the orchard. Agric. Gaz., Sydney, N.S.W., **16**, 1905, (515-520, with pl. and text-figs.). [3827 *ic*]).

(Froggatt, W. W. 11. Economic Entomology. White Ants (*Termitidae*) with suggestions for dealing with them in houses and orchards. Agric. Gaz., Sydney, N.S.W., **16**, 1905, (632-656, 753-774, with pls.). [3803 3827 *ic* 3831])

(Froggatt, W. W. 12. Domestic Insects: Mosquitoes. Agric. Gaz., Sydney, N.S.W., **16**, 1905, (1082-1087, with pl.). [4203])

(Froggatt, W. W. 13. Notes on *Neuroptera* and descriptions of new species. Sydney, N.S.W., Proc. Linn. Soc., **29**, 1905, (671-676, 1 pl.).)

Frohawke, F. W. 1. Life-history of *Aporia crataegi*. Entomologist, London, **39**, 1906, (132-138). [*Lepidoptera*.]

Frohawke, F. W. 2. Completion of the life-history of *Lycæna arion*. Entomologist, London, **39**, 1906, (145-147). [*Lepidoptera*.]

Frohawke, F. W. 3. Life-history of *Pieris daphidice*. Entomologist, London, **39**, 1906, (193-196). [*Lepidoptera*.]

Fruhstorfer, H. 1. Beitrag zur Kenntnis der *Prothoe australis*-Rassen

und deren Formen. D. ent. Zs. Iris, Berlin, **19**, 1906, (43-50). [*Lepidoptera.*]

Fruhstorfer, H. 2. Neue *Zeuzidia* Formen. D. ent. Zs. Iris, Berlin, **19**, 1906, (104-106). [*Lepidoptera.*]

Fruhstorfer, H. 3. Uebersicht der *Euthaliiden* aus der Section *Nora*. D. ent. Zs. Iris, Berlin, **19**, 1906, (109-120). [*Lepidoptera.*]

Fruhstorfer, H. 4. Neue *Papilioniden*. Ent. Zs., Guben, **20**, 1906, (9-10). [*Lepidoptera.*]

Fruhstorfer, H. 5. Eine neue *Argynnis*. Ent. Zs., Guben, **20**, 1906, (25-26). [*Lepidoptera.*]

Fruhstorfer, H. 6. Neue und seltene indo-malayische *Rhopaloceren*. Ent. Zs., Guben, **20**, 1906, (61-63). [*Lepidoptera.*]

Fruhstorfer, H. 7. Ein merkwürdiger *Papilio* aus Celebes. Ent. Zs., Guben, **20**, 1906, (65-66). [*Lepidoptera.*]

Fruhstorfer, H. 8. Beitrag zur Kenntnis der *Rhopaloceren* der Batu-Inseln an der S.-W.-Küste von Sumatra. Ent. Zs., Guben, **20**, 1906, (98-99, 105-106, 121-123, 131-132, 145-146). [*Lepidoptera.*]

Fruhstorfer, H. 9. Eine neue *Prepona* aus Brasilien. Ent. Zs., Guben, **20**, 1906, (150-151). [*Lepidoptera.*]

Fruhstorfer, H. 10. Vier neue *Terinos* aus der *Tethys-Taxiles*-Gruppe. Insektenbörse, Leipzig, **23**, 1906, (47-48). [*Lepidoptera.*]

Fruhstorfer, H. 11. Neue *Euthaliidae*. Insektenbörse, Leipzig, **23**, 1906, (59-60). [*Lepidoptera.*]

Fruhstorfer, H. 12. Neue *Terinos*. Insektenbörse, Leipzig, **23**, 1906, (104). [*Lepidoptera.*]

Fruhstorfer, H. 13. Neue *Rhopaloceren*. Ent. Zs., Guben, **19**, 1906, (215-216).

Fruhstorfer, H. 14. *Rhopaloceren*-Aberrationen . . . Ent. Zs., Guben, **20**, 1906, (17-18).

Fruhstorfer, H. 15. Zwei neue *Terinos* aus der *Clarissa*-Gruppe. Insektenbörse, Leipzig, **23**, 1906, (12).

Fruhstorfer, H. 16. Neue *Euthaliidae*. Insektenbörse, Leipzig, **23**, 1906, (18-19).

Fruhstorfer, H. 17. Reisebericht über eine Sammeltour auf der Insel Bawean. Insektenbörse, Leipzig, **23**, 1906, (90-91, 94-95).

Fruhstorfer, H. 18. Verzeichnis der von mir in Tonkin, Annam und Siam gesammelten *Nymphaliden* und Besprechung verwandter Formen. Entomol. Ztg., Wien, **26**, 1906, (307-362, mit 2 Taf.). [*Lepidoptera.*]

Fruhstorfer, H. 19. Historisches und Morphologisches über das Genus *Athyma* und dessen Verwandte. Wien, Verh. ZoolBot. Ges., **1906**, (381-434). [*Lepidoptera.*]

(Fruhstorfer, H. 20. Neue *Taenaris*-Formen und Uebersicht der bekannten Arten. Entomol. Ztg. Wien, **24**, 1905, (57-89, 119-128, mit 2 Taf.). [4423 4427 ia 4431])

Fuchs, Ferdinand. 1. Interessante Geometridenzuchten. (*Gnophos*, *Aci-dalia*, *Tephroclystia*.) Ent. Zs., Guben, **20**, 1906, (76-77). [*Lepidoptera.*]

Fuchs, Gilbert. 2. Der Buchenspinner (*Aglia tau* L.). Natw. Zs. Landw., Stuttgart, **4**, 1906, (153-158). [*Lepidoptera.*]

Fuchs, G. 3. Nachtrag zur ersten Veröffentlichung über die Borkenkäfer Kärntens. Natw. Zs. Landw., Stuttgart, **4**, 1906, (291-301). [*Coleoptera.*]

Fuente, José Maria de la. Datos para la fauna de la provincia de Ciudad Real. [Data for the fauna of the province of Ciudad Real.] Madrid, Bol. Soc. esp. Hist. nat., **6**, 1906, (284-301).

Fulinski, Benedykt vide Nusbaum, Jozef.

Fulmek, L. Einige Organisationseigentümlichkeiten der *Mallophagen*. Wien, Verh. ZoolBot. Ges., **1906**, (639-641).

Gadeau de Kerville, Henri. 1. Sur l'accouplement et les œufs d'*Anisolabis mauritanica* H. Lucas. Paris, Bul. soc. ent., **1906**, (252-253). [*Orthoptera.*]

(Gadeau de Kerville, H. 2. Note sur la présence dans les cavernes, du *Triphosa dubitata* L. et du *Scoliopteryx libatrix* L. Paris, Bul. Soc. ent., **1905**, (54-55). [4419 4431].)

(Gadeau de Kerville, H. 3. Note sur les fonctions de la pince des Insectes Orthoptères de la famille des Forfi-

culidés. Paris, Bul. soc. zool., **30**, 1905, (53-63, av. fig.). [3831-3811.]

Gahan, C. J. 1. *Coleoptera*. Vol. I. (*Cerambycidae*). [in] The Fauna of British India, including Ceylon and Burma. Edited by Lt.-Col. C. T. Bingham, London, 1906, (xviii + 329). Svo.

Gahan, C. J. 2. On a collection of Longicorn *Coleoptera* from Selangor and Perak. J. Federated Malay States Mus., **1**, 1906, (109-123, pl. vi).

Gal, Jules. 1. Expériences sur les vers-à-soie. 7^e note. Nîmes, Bul. soc. étud. sci. nat., **33**, 1906, (87-97). [*Lepidoptera*.]

(**Gal, J. 2.** Ponte du *Bombyx mori* (2^e Note). Nîmes, Bul. soc. étud. sci. nat., **32**, 1905, (68-71, av. diag.). [4415-4431].)

Galien-Mingaud. Le Castor du Rhône et ses parasites. Nature, Paris, **33**, 2^e sem., 1905, (118-119, av. fig.). [*Coleoptera*.]

Galli-Valerio, B. e Rochaz de Jongh, J. 1. Studi e ricerche sui Culicidi dei generi *Culex* e *Anopheles*. I Memoria. Roma, Atti Soc. studi malaria, **4**, 1903, (3-48); II Memoria, *op. cit.* **5**, 1904, (1-47); III Memoria, *op. cit.* **6**, 1905, (1-25). [*Diptera*.]

Galli-Valerio, B. e Rochaz de Jongh, J. 2. Studi e ricerche sui Culicidi dei generi *Culex* e *Anopheles*. IV Memoria. Roma, Atti Soc. studi malaria, **7**, 1906, (1-17). [*Diptera*.]

Galloway, W. The intelligence of animals. Nature, London, **73**, 1906, (440). [*Coleoptera*.]

Galvagni, Egon. Mitteilungen. Wien, Verh. ZoolBot. Ges., **1906**, (81-85). [*Lepidoptera*.]

Ganglbauer, Ludwig. 1. Bemerkungen über einige *Dyschirius*-Arten. Entomol. Ztg., Wien, **25**, 1906, (265-266). [*Coleoptera*.]

Ganglbauer, L. 2. *Coleoptera*. [in] Penther und Zederbauer Reise zum Erdschas-Dagh.] Wien, Ann. Nat. Hist. Hofmus., **20**, (246-290). [Includes new *Curculionidae* by K. Daniel and *Baris* by Schultze.]

Ganglbauer, L[udwig] und Heyden, L[ucas] von. Ueber die Entomologia parisiensis von Geoffroy und Fourcroy.

(s-9720 j)

Entomol. Ztg., Wien, **25**, 1906, (301-302).

Garbowski, Tad. *Argynnis paphia* ab. *ralesina* als Varietät. Wien, Verh. ZoolBot. Ges., **1906**, (471-474). [*Lepidoptera*.]

Garcia, Pablo. Un *Longicorne* destructeur des maisons en Colombie. Bul. Muséum, Paris, **1906**, (96-100). [*Coleoptera*.]

Garcia, Mercet Ricardo. Algunas especies del género *Ammophila*. [Quelques espèces du genre *Ammophila*.] Madrid, Bol. Soc. esp. Hist. nat., **6**, 1906, (186-192). [*Hymenoptera*.]

Garman, H[arrison]. 1. The scope and status of economic entomology. Washington, D.C., Bull. U. S. Dept. Agric., Bur. Ent., No. **60**, 1906, (5-24).

Garman, H. 2. Does the silver-ash (*Lepisma saccharina* L.) feed on starch and sugar? Washington, D.C., Bull. U. S. Dept. Agric., Bur. Ent., No. **60**, 1906, (174-177). [*Thysanura*.]

Gatnar, Oskar. 1. Beitrag zur *Lepidopterenfauna* von Lemberg. Wien, JahrBer. Entom. Ver., **16**, (1905), 1906, (39-50).

Gatnar, O. 2. Zucht von *Deilephila euphorbiae* aberr. *rubescens*. Wien, Verh. ZoolBot. Ges., **1903**, (645-616). [*Lepidoptera*.]

Gauckler, H. 1. Beiträge zur *Lepidopterenfauna* von Palästina. D. ent. Zs. Iris, Berlin, **19**, 1903, (1-5).

Gauckler, H. 2. Ueberwintert die Raupe oder die Puppe von *Larentia picata* Hb.? D. ent. Zs. Iris, Berlin, **19**, 1906, (102, 103). [*Lepidoptera*.]

Gauckler, H. 3. Schwierige Zuchten. *Bryophila muralis* Forster und *Bryoph. raptricula* Hb. Insektenbörse, Leipzig, **23**, 1906, (127-128). [*Lepidoptera*.]

Gauckler, H. 4. Was man im Winter an den Aesten und Zweigen der Sahlweide finden kann. Insektenbörse, Leipzig, **23**, 1906, (55-56).

Gauckler, H. 5. Beiträge zur *Koleopterenfauna* von Palästina. Ent. Jahrb., Leipzig, **15**, 1906, (139-142).

Gaulle, Jules de. Catalogue des *Hyménoptères* de France. Feuilles jeunes natural, Paris, **36**, 1906, (137-141, 162-164, 178-180, 189-192).

Gautier, Claude. 1. Sur un prétendu caractère différentiel entre le pigment vert de la soie de *Saturnia yama-mai* et les chlorophylles de feuilles de chêne. Paris, C.-R. soc. biol., **61**, 1906, (419-420, 556-557). [*Lepidoptera.*]

Gautier, C. 2. Sur un prétendu caractère différentiel entre la matière colorante verte du cocon de *Saturnia yama-mai* et les chlorophylles des feuilles de chêne. (Réponse à M. J. VILLARD). Paris, C.-R. soc. biol., **61**, 1906, (696-697). [*Lepidoptera.*]

Gautier, C. 3. Rectification à propos d'une Note de M. DUBOIS (R.). Paris, C.-R. soc. biol., **61**, 1906, (722-724). [*Lepidoptera.*]

Gebien, Hans. Ueber die von Fabricius beschriebenen Typen von *Tenebrioniden* in den Museen von Kopenhagen und Kiel. D. ent. Zs., Berlin, **1906**, (209-237). [*Coleoptera.*]

(Geddoelst, L. Contribution à l'étude des larves cuticoles de Muscides africaines. Arch. parasit., Paris, **9**, 1905, (568-592, fig.). [4215 4219 4231].)

Geisenheyner, Ludwig. Die Sattelschrecke bei Kreuznach. Zool. Beob., Frankfurt a. M., **47**, 1906, (48-49). [*Orthoptera.*]

Gellersen, J. Die Mundwerkzeuge der Honigbiene und anderer *Hymenopteren*. Natw. Wochenschr., Jena, **21**, 1906, (737-740).

Gerhardt, J. 1. Nene Fundorte seltenerer schlesischer Käfer aus dem Jahre 1905. Zs. ent., Breslau, N.F., **31**, 1906, (1-7). [*Coleoptera.*]

Gerhardt, J. 2. Neuheiten der schlesischen *Kolepteren*fauna aus dem Jahre 1905. Zs. ent., Breslau, N.F., **31**, 1906, (8-9).

Gerhardt, J. 3. Neuheiten der schlesischen *Kolepteren*fauna aus dem Jahre 1905. D. ent. Zs. Berlin, **1906**, (238).

Gerhardt, J. 4. Eine neue Homalotide. Zs. Ent., Breslau, N.F., **31**, 1906, (10-12). [*Coleoptera.*]

Gerhardt, J. 5. Eine neue Homalotide. D. ent. Zs., Berlin, **1906**, (239-240).

Gerhardt, J. 6. Zu *Homalota orbata* Er. Zs. Ent., Breslau, N.F., **31**, 1906, (13-14). [*Coleoptera.*]

Gerhardt, J. 7. Bemerkungen zu *Homalota (Acrotona) orbata* Erichs. D. ent. Zs., Berlin, **1906**, (463-464). [*Coleoptera.*]

Germain, Ph. et Kerremans, Ch. Buprestides du musée de Santiago (Chili). Bruxelles, Ann. Soc. ent. Belgique, **1906**, (377-391).

Gerstäcker, A. Ueber die geographische Verbreitung und die Abänderungen der Honigbiene nebst Bemerkungen über die ausländischen Honigbienen der alten Welt. [Wiederabdruck.] Berlin, Mitt. zool. Mus., **3**, 1906, (124-154). Vide etiam **Buttel-Reepen**. [*Hymenoptera.*]

Gestro, R[affaello]. 1. Materiali per lo studio delle *Hispidae*. XXV. Sulla *Gonophora interrupta* Duv. XXVI. Osservazioni sopra alcune *Hispidae* della collezione Oberthür. XXVII. Ricerche intorno alla disposizione delle specie nel genere *Cryptonychus*. Genova, Ann. Museo. Civ. st. nat., **42**, 1905-6, (128-134). [*Coleoptera.*]

Gestro, R. 4. Materiali per lo studio delle *Hispidae*. XXVIII. Descrizione di alcune *Hispidae* inedite. Genova, Ann. Museo. Civ. st. nat., **42**, 1905-6, (463-509). [*Coleoptera.*]

Gestro, R. 5. Materiali per lo studio delle *Hispidae*. XXIX. Viaggio di L. Fea nell' Africa occidentale: *Hispidae*. XXX. Elenco delle *Hispidae* africanæ. Genova, Ann. Museo Civ. st. nat., **42**, 1905-6, (501-557). [*Coleoptera.*]

Gestro, R. 6. Saggio sugli *Ichthyurus* africani. Genova, Ann. Museo Civ. st. nat., **42**, 1905-6, (217-233). [*Coleoptera.*]

Gestro, R. 7. Studi sugli *Ichthyurus*. Genova, Ann. Museo Civ. st. nat., **42**, 1905-6, (266-307). [*Coleoptera.*]

Gestro, R. 8. Sur quelques *Ichthyurus* du Tonkin. Leiden, Notes Mus. Jentink, **26**, 1906, (235-238). [*Coleoptera.*]

[**Ghigi, Alessandro.** 1. Catalogo dei *Tentredinidi* del Museo zoologico di Napoli con osservazioni critiche et sinonimiche. Napoli, Annuario Museo Zool., **1**, No. **21**, 1904, [1905], (1-28). [*Hymenoptera.*]

[Ghigi, A. 2. Elenco dei generi e delle specie di *Tentredinidi* europei istituite da Achille Costa. Napoli, Annuario Museo Zool., 1, No. 34, (1-8, Tav. viii). [*Hymenoptera*.]]

Giard, Alfred. 1. Sur la présence de *Dolichopoda geniculata* Costa dans les ruines d'Herculanum. Paris, Bul. soc. ent., 1906, (285-287). [*Orthoptera*.]

Giard, A. 2. Sur les dégâts de *Lorosteja (Euryercon) sticticalis* L. dans les cultures de betteraves du plateau central. Paris, C.-R. Acad. sci., 143, 1906, (458-460). [*Lepidoptera*.]

Giard, A. 3. La teigne de la betterave (*Lita ocellata*, Boyd). Paris, C.-R. Acad. sci., 143, 1906, (627-630). [*Lepidoptera*.]

Giard, A. 4. Sur la présence de *Compsoymia macellaria* L. dans l'Inde française. Paris, Bull. Ass. franç. avanc. sci., 1905, (334-335). [*Diptera*.]

Giard, A. 5. Sur les progrès de la Mouche des fruits (*Ceratites capitata* Wied.) aux environs de Paris. Paris, C.-R. Acad. sci., 143, 1906, (353-354).

Giard, A. 6. L'invasion de Carabides d'Angers. Feuille jeunes natural., Paris, sér. 4, 36, 1906, [1905]. (28-29, 78).

Giard, A. 7. Durée d'une fourmière. Feuille jeunes natural., Paris, sér. 4, 36, 1906, [1905], (30).

Giard, A. 8. Une miellée anormale. Feuille jeunes natural., sér. 4, 36, 1906, (63).

Giard, A. 9. *Amphydasys betularia* L. var. *doubledayaria* Mill. Feuille jeunes natural., Paris, sér. 4, 36, 1906, (134). [Même sujet. Smits, Alb. T.c. (135).

Giard, A. 10. Observations à propos de la note précédente [de PIERRE, sur l'éclosion de l'œuf de *Lestes viridis*]. Paris, Bul. soc. ent., 1904, (31-32). [3831 3815].

(Giard, A. 11. Sur quelques Diptères intéressants du jardin du Luxembourg. Paris, Bul. soc. ent., 1904, (86-88). [4231 4219].)

(Giard, A. 12. Sur l'*Agromyza simplex* H. Loew, parasite de l'asperge. Paris, Bul. soc. ent., 1904, (179-181). [4231 4219].)

Giard vide Bouvier.
(N-9720 j)

Gibbs, A. E. The insects of the North Cornish coast. Entomologist, London, 39, 1906, (1-7).

Gibson, Arthur. The *Cecropia* emperor moth (*Samia cecropia*, Linn.) Ottawa Nat., 20, 1906, (149-152). [*Lepidoptera*.]

Giles, G. M. 1. The anatomy of the biting flies of the genus *Stomoxys* and *Glossina*. J. Trop. Med., London, 9, 1906, (99-102, 153-156, 169-173, 182-186, 198-202, 217-219, 235-236). [*Diptera*.]

Giles, G. M. 2. Mosquito notes. I. Note on a small collection of mosquitoes from Bahrein in Northern Arabia (shores of Persian gulf). J. Trop. Med., London, 9, 1906, (130-132). [*Diptera*.]

Giles, G. M. 3. How to recognise the species of *Pulex* possibly concerned in the transmission of plague. J. Trop. Med., London, 9, 1906, (190, 191, 1 pl.).

Gill, Marie vide Cockerell, T. D. A.

Gillette, C. P. Report of the entomologist. Agric. exp. Sta. Colorado Rep., 14, 1901, (13-18).

Gillmer, M. 1. A critical study on some disputed aberrations of *Amorpha populi*, Linn. Ent. Rec., London, 18, 1906, (29-32, 60-63, pl. iii). [*Lepidoptera*.]

Gillmer, M. 2. Die ersten Stände einiger Tagfalter. (Eier- und Raupen-Beschreibungen.) Insektenbörse, Leipzig, 23, 1906, (8, 11-12, 14-15, 19-20, 22-23, 26-27). [*Lepidoptera*.]

Gillmer, M. 3. Das Ei und die Eiablage von *Zephyrus betulae* L. Insektenbörse, Leipzig, 23, 1906, (42-43). [*Lepidoptera*.]

Gillmer, M. 4. *Zephyrus betulae* Linn. Raupe. Insektenbörse, Leipzig, 23, 1906, (56). [*Lepidoptera*.]

Gillmer, M. 5. Einige dunkle Stellen im Leben mancher Argynnidien. Insektenbörse, Leipzig, 23, 1906, (60, 92). [*Lepidoptera*.]

Gillmer, M. 6. Konservierungsmethoden für Eier, Raupen und Puppen von Schmetterlingen. Insektenbörse, Leipzig, 23, 1906, (80). [*Lepidoptera*.]

Gillmer, M. 7. Copula von *Lycæna argus* Linn. (aegon auct.). Insekten-

börse, Leipzig, **23**, 1906, (136). [*Lepidoptera*.]

Gillmer, M. **8**. *Argynnis dia* Linn. in Mecklenburg. Insektenbörse, Leipzig, **23**, 1906, (188). [*Lepidoptera*.]

Gillmer, M. **9**. Noch etwas zu den dunklen Stellen im Leben mancher Argynniden. Insektenbörse, Leipzig, **23**, 1906, (111–112). — Weitere Bemerkungen dazu, T.e. (132). [*Lepidoptera*.]

Gillmer, M. **10**. Die Eier von *Coenonympha hero* Linn. und *Lycaena amanda* Schn. Insektenbörse, Leipzig, **23**, 1906, (114–115). [*Lepidoptera*.]

Gillmer, M. **11**. Die Variation von *Acronyeta leporina* Linn. Insektenbörse, Leipzig, **23**, 1906, (118–120, 122–124). [*Lepidoptera*.]

Gillmer, M. **12**. Das Ei und die ersten Raupenstadien von *Agrotis interjecta* Hübn. Ent. Zs., Guben, **19**, 1906, (200–202). [*Lepidoptera*.]

Gillmer, M. **13**. Zur Entwicklungsgeschichte einiger Tagfalter. Ent. Zs., Guben, **20**, 1906, (130–131, 137–138). [*Lepidoptera*.]

Gillmer, M. **14**. Das Ei von *Crocautis elingvaria* Linn. Ent. Zs., Guben, **20**, 1906, (189). — Bemerkung dazu v. E. Boyé, **20**, 1907, (258). [*Lepidoptera*.]

Gillmer, M. **15**. Eine kritische Studie über einige viel umstrittene Aberrationen von *Amorpha populi* Linn. Wiesbaden, Jahrb. Ver. Natk., **59**, 1906, (157–171, 1 Taf.). [*Lepidoptera*.]

Giraudeau, H. **1**. Les Coléoptères et les classes d'hiver. Feuille jeunes natural., Paris, sér. 4, **36**, 1906, [1905], (29).

Giraudeau, H. **2**. *Lixus iridis* Ol. Feuille jeunes natural., Paris, **36**, 1906, (167). [*Coleoptera*.]

Girault, A. Arsene. **1**. *Trichogramma pretiosa* Riley: colour variation in the adult, with the description of a new variety. Canad. Entomol., **38**, 1906, (81, 82). [*Hymenoptera*.]

Girault, A. A. **2**. Two new species of *Telenomus*. Psyche, Boston, Mass., **13**, 1906, (63–65). [*Hymenoptera*.]

Girault, A. A. **3**. *Trichogramma pretiosa* Riley. Oviposition, — A résumé.

Psyche, Cambridge, Mass., **13**, 1906, (137–148). [*Hymenoptera*.]

Girault, A. A. **4**. A new species of *Eulophidae*. Ent. News, Philadelphia, Pa., **17**, 1906, (305–307). [*Hymenoptera*.]

Girault, A. A. **5**. The bedbug, *Cimex lectularius* Linnaeus. Pt. 2. Critical remarks on its literature, with a history and bibliography of pathogenic relations. Psyche, Boston, Mass., **13**, 1906, (42–58) and corrections (107). [*Hemiptera*.]

Girault, A. A. **6**. The method of feeding in *Leptoglossus*. Ent. News, Philadelphia, Pa., **17**, 1906, (382–383). [*Hemiptera*.]

Girault, A. A. **7**. Standards of the number of eggs laid by insects. IV. Being averages obtained by actual count of the combined eggs from twenty depositions or masses. Ent. News, Philadelphia, Pa., **17**, 1906, (6). [*Hemiptera*.]

Girault, A. A[rsene] vide Johnson, F.

Godman, F. Ducane. Biologia Centrali-Americana, parts exc-exciii, vide Bruner, L.; Calvert, P. P.; Champion, G. C.; Jordan, K.

[Golitsyn, S.] Голицынъ, С. По вопросу о размѣрѣ натуральной пчелиной ячейки въ связи съ употребленіемъ искусственной вошины. [Zur Frage über die Dimensionen der natürlichen Bienenzelle im Zusammenhang mit dem Gebrauch von Kunstwaben.] Russ. pčelovod. listok, St. Petersburg, **21**, 1906, (75–82, 117–120, 148–152, 183–184, 212–216, 251–254, 273–296, 293–295).

Goller, M. *Dictyophorus rubens* Gyll. Insektenbörse, Leipzig, **23**, 1906, (104). [*Coleoptera*.]

Goltz, Frhr. v. d. Die Einbürgerung von *Saturnia pyri* in Lothringen. Ent. Zs., Guben, **20**, 1906, (83–84). — Nachtrag dazu vide Prehn, T.e. (101); vide P. Demuth, (110); vide Robitzsch, (118); vide Frhr. v. d. Goltz, T.e. **20**, 1907, (263). [*Lepidoptera*.]

Gorka, Sándor. Gombatenyésztő termeszek. [Termite als Pilzezüchter.] Term. Közl., Budapest, **38**, 1906, (467–469, mit 2 Fig.).

Górriz, Ricardo J. La entomologia y la medicina. [Entomology and

medicine.] Zaragoza, Bol. Soc. Arag. **5**, 1906, (20-27).

Goss, Herbert [and others]. Insects. Victoria history county of Devon, **1**, 1906, (163-243).

Gounelle, E. **1**. Chasses de M. Carlos Bruch dans l'Argentine. Description d'un nouveau genre et d'une nouvelle espèce de *Cerambycides*. Paris, Bul. soc. ent., **1906**, (140-142). [*Coleoptera*.]

Gounelle, E. **2**. Note sur deux *Lamiacées* américains placés avec doute dans le genre *Eudermus*, et description de deux genres nouveaux. Paris, Bul. soc. ent., **1906**, (272-275). [*Coleoptera*.]

Gounelle, E. **3**. *Cerambycides* nouveaux ou peu connus de la région néotropicale, principalement de la sous-région brésilienne. Paris, Ann. soc. ent., **75**, 1906, (1-20). [*Coleoptera*.]

(Gounelle, E. **4**. Concordance des variations locales de coloration chez les Lycides et les Insectes qui les miment. Paris, Bul. soc. ent., **1905**, (132-134). [4823 4827 4831].)

(Gounelle, E. **5**. Description d'un *Cerambycide* nouveau appartenant au genre *Coremia* et tableau synoptique de ce genre. Paris, Bul. soc. ent., **1905**, (227-228). [4831 4827 hi].)

(Gounelle, E. **6**. Description d'un *Cerambycide* nouveau appartenant au genre *Parazodes* Aurivillius. Paris, Bul. soc. ent., **1905**, (294-296, av. fig.). [4831].)

Goury, G., et Guignon, J. **1**. Les insectes parasites des Crucifères. Feuille jeunes natural., Paris, ser. 4, **36**, 1903, (65-69, 97-99, 113-117, 125-132, 144-148, 158-161, 176-177, 193-200), **37**, 1906, (14-16, 28-32, 44-46).

(Goury, G. et Guignon, J. **2**. Deux hyménoptères nouveaux. Feuille jeunes natural., Paris, ser. 4, **35**, 1905, (200-202). [4231].)

Grabham, M. **1**. A new *Corethrella* from Jamaica. Ent. News, Philadelphia, Pa., **17**, 1906, (313-345). [*Diptera*.]

Grabham, M. **2**. Notes on some mosquitoes from Newcastle, Jamaica. Canad. Entomol., **38**, 1906, (167-173). [*Diptera*.]

Grabham, M. **3**. Four new *Culicidae* from Jamaica, West Indies. Canad. Entomol., **38**, 1906, (311-320). [*Diptera*.]

Grabham, M. **4**. Note on silk worms from Colombia. Kingston, Bull. Dep. Agric., Jamaica, **4**, 1906, (121). [*Lepidoptera*.]

Graebener, [Leopold]. Wandernde Schmetterlinge. Prakt. Bl. Pflanzenbau, Stuttgart, **4**, 1906, (141-142). [*Lepidoptera*.]

Graeffe, Ed. Beiträge zur Insektenfauna von Tunis. Wien, Verh. Zool.-Bot. Ges., **1906**, (446-471). [Includes description of *Mulio* sp. n. by Sack.]

Graenicher, S. **1**. A contribution to our knowledge of the visual memory of bees. Milwaukee, Bull. Wis. Nat. Hist. Soc., N. Ser., **4**, 1906, (135-142). [*Hymenoptera*.]

Graenicher, S. **2**. On the habits and life-history of *Leucospis affinis* (Say). A parasite of bees. Milwaukee, Bull. Wis. Nat. Hist. Soc., N. Ser., **4**, 1906, (153-159, pl.). [*Hymenoptera*.]

(Graenicher, S. **3**. (On the habits of two Ichneumonid parasites [*Grotca anguina* and *Habrocryptus graenicheri*] of the bee *Ceratina dupla* Say. Ent. News, Philadelphia, Pa., **16**, 1905, (43-49). [4619 4631].)

Grandi, Guido. **1**. Sulle *Cicindele lunulata* Fabr. ed *aulica* Dej. e sulla loro varietà e distribuzione in Italia. Riv. Coleotter. ital., Camerino, **4**, 1906, (85-107, 1 tav.). [*Coleoptera*.]

Grandi, G. **2**. Complimento al mio studio sulle *Cicindele aulica* Dej. e *lunulata* Fabr. Riv. Coleotter. ital., Camerino, **4**, 1906, (220-227). [*Coleoptera*.]

Grandi, G. **3**. Revisione critica delle specie italiane del *Liparus* Oliv. Riv. Coleotter. ital., Camerino, **4**, 1906, (241-256). [*Coleoptera*.]

Green, E. E. **1**. Formalin as a reagent in the preparation of some soft-bodied *Coccidae*. Ent. Mag., London, **42**, 1906, (129, 130).

Green, E. E. **2**. On the species of leaf insects (*Phyllinae*) occurring in Ceylon. Spolia zeylan., Colombo, **3**, (220-222, 2 pls.). [*Orthoptera*.]

Green, E. E. 3. Supplementary note on the scaly winged *Copeoglyphtha*. *Spolia zeylan.*, Colombo, **4**, 1906, (123-125). [*Psocidae*.]

Green, E. E. 4. The spotted locust (*Aularches miliaris* L.). *Circ. Bot. Gard. Ceylon*, **3**, No. 16, 1906, (227-236, 1 pl.). [*Orthoptera*.]

Greenwood, M. Junr. The effects of rapid decompression on Larvae. *Proc. Physiol. Soc., J. Physiol.*, Cambridge, **35**, 1906, (vi).

Greig, R. B. Note on a hitherto undescribed insect attack on young turnip plants. London, *Proc. Ass. econ. Biol.*, **1**, 1906, (78).

Griffini, Achille. 1. Studi sui *Lucanidi*. **3.** Sull'*Hexarthrus buqueti* Hope. *Zool. Anz.*, Leipzig, **30**, 1903, (899-905). [*Coleoptera*.]

Griffini, A. 2. *Lucanidi* raccolti da Leonardo Fea nell' Africa occidentale. Genova, *Ann. Museo. Civ. st. nat.*, **42**, 1905-6, (135-148). [*Coleoptera*.]

Griffini, A. 3. *Ortotteri* raccolti da Leonardo Fea nell' Africa occidentale. i. *Heterodidi*, *Conocephalidi*, *Meconemidi*, *Pseudophilidi*, *Mecopodidi*, *Faenotheridi*. Genova, *Ann. Museo Civ. st. nat.*, **42**, 1905-6, (358-397).

Griffini, A. 4. Studi sui *Lucanidi*. II. Sull'*Odontolabis lowei* Parr. Milano, *Atti Soc. ital. sc. nat.*, **45**, 1906, (111-139). [*Coleoptera*.]

[**Grigorjev, B. K.**] Григорьевъ, Б. К. Списокъ *Orthoptera* и *Odonata* Бологова (Новгород. губ.) и его окрестностей. [Zur *Orthopteren*- und *Odonatenfauna* des Gouvernement Novgorod.] St. Peterburg, *Ber. Süßwasserst Naturf. Ges.*, **2**, 1906, (65-68). [3827 *Ab* 3831].

Grimshaw, Percy H. 1. On the British species of *Hydrotæa* (continued). *Ent. Mag.*, London, **42**, 1906, (8-11, 72-77). [*Diptera*.]

Grimshaw, P. H. 2. *Diptera scotica*: V. The Forth district (second supplement). *Ann. Scot. Nat. Hist.*, Edinburgh, **1906**, (154-161).

Grimshaw, P. H. 3. The *Diptera* of Fair Isle. *Ann. Scot. Nat. Hist.*, Edinburgh, **1906**, (207-209).

Grimshaw, P. H. 4. On the occurrence of a new British fly (*Trichocera*

maculipennis, Mg.) in the Forth district. *Ann. Scot. Nat. Hist.*, Edinburgh, **1906**, (210). [*Diptera*.]

Grönbiom, Thorwald. Eingynandromorphes Exemplar von *Smerinthus populi* L. Helsingfors, *Medd. Soc. Fauna Fl. Fenn.*, **31**, 1906, (17-19). [*Lepidoptera*.]

Gross, J. Die Spermatogenese von *Pyrrhocoris apterus* L. *Zool. Jahrb.*, Jena, *Abt. f. Anat.*, **23**, 1906, (269-336, 2 Taf.). [*Hemiptera*.]

Grossbeck, John A. 1. A new *Limaecodid*. *Ent. News*, Philadelphia, Pa., **17**, 1906, (289-290). [*Lepidoptera*.]

Grossbeck, J. A. 2. Notes on *Culex squamiger* Coq., with description of a closely allied species. *Canad. Entomol.*, **38**, 1906, (129-131). [*Diptera*.]

Grossbeck, J. A. 3. New species of *Geometridae*. *Canad. Entomol.*, **38**, 1906, (272-275). [*Lepidoptera*.]

Grouvelle, Ant. 1. Contributions à l'étude des Coléoptères de Madagascar. *Nitidulidae*, *Colyidiidae*, *Cucujidae*, *Monotomidae*, *Cryptophagidae*, *Mycetophagidae*, *Dryopidae*, *Heteroceridae*. Paris, *Ann. soc. ent.*, **75**, 1906, (67-168, pls. vii and viii).

Grouvelle, A. 2. *Dryopidae*, *Helminthidae*, *Heteroceridae*. Voyage de M. Ch. Alluaud dans l'Afrique orientale, juin 1903-mai 1904. Paris, *Ann. soc. ent.*, **75**, 1906, (315-332, pl. x). [*Coleoptera*.]

Grouvelle, A. 3. *Nitidulides*, *Colydiides*, *Cucujides*, *Monotomides* et *Helminides* nouveaux. *Rev. ent.*, Caen, **25**, 1906, (113-131). [*Coleoptera*.]

Grouvelle, A. 4. *Clavicornes* nouveaux du Musée civique de Gênes. Genova, *Ann. Museo Civ. st. nat.*, **42**, 1905-6, (308-333). [*Coleoptera*.]

(**Grouvelle, A. 5.** Description d'un Colydien du groupe des *Cerylon*. Paris, *Bul. soc. ent.*, **1905**, (109). [4831])

(**Grouvelle, A. 6.** Description d'un *Laemophilus* nouveau de Madagascar. Paris, *Bul. soc. ent.*, **1905**, (142-143). [4831 4827 *fl*])

(**Grouvelle, A. 7.** Coléoptères (Hétérocerides). Mission Pavie, **3**, 1904, (83-84). [4831 4827 *ed*].)

Grouvelle, A. 8. *Nitidulides* nouveaux du British Museum. Paris, *Bul.*

soc. ent., **1906**, (201-203, 214-215). [*Coleoptera*.]

Grünberg, K. 1. Ueber blutsaugende Musciden. Zool. Anz., Leipzig, **30**, 1906, (78-93). [*Diptera*.]

Grünberg, K. 2. Einige neue *Tabanidengattungen* des äthiopischen Faunengebiets. Zool. Anz., Leipzig, **30**, 1906, (349-362). [*Diptera*.]

Grünberg, G. 3. Ueber zweiflügelige Insektenarten als Schmarotzer bei Menschen und Säugetieren. Verh. D. KolKongr., Berlin, **1905**, 1906, (60-68). [*Diptera*.]

Grünberg, K. 4. Einige Mitteilungen über afrikanische *Oestriden*. Berlin, SitzBer. Ges. natf. Freunde, **1906**, (37-49). [*Diptera*.]

(**Guédel** Considerations sur les Coléoptères de la faune alpine. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (868-872); et Paris Bull. ass. franç. avanc. sci., **1904**, (265). [4803 4819 4827 *fc*])

Guercio, Del, Giacomo. Intorno a tre specie rare di *Mizozilini* italiani e alle diverse galle prodotte da vari *Apidi* sul *Populus nigra*. Redia, Firenze, **3**, **1905**, 1906, (360-385). [*Aphidae*.]

(**Guérin, Joseph.** Matériaux pour servir à l'histoire des Hémiptères de la faune alpine. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (874-882). [4027 *di* 4031])

Guérin, J. and Péneau, J. Faune entomologique armoricaine. *Lygaeides*. [with] Rennes, Bul. Soc. sci. méd., **14**, 1905, (1-84, sep. pag.). Also as appendix to Trav. Univ. Rennes, **4**. [*Hemiptera*.]

Guermonprez, H. L. F. *Reuterella helrimacula* Enderl., a new genus and species to the list of British *Psocidae*, and the discovery of its hitherto unknown male. Ent. Mag., London, **42**, 1906, (57-59, pl. i).

Guignon, J. *vide* Goury, G.

Guillaume. Notes sur les *Diptères* de Belgique. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (221-224, pl. i).

Gurney, Gerard H. Entomological notes from Switzerland. Entomologist, London, **39**, 1906, (32-36). [*Lepidoptera*.]

Guthrie, J. E. Studies of the *collem-bolan* eye. Des Moines, Proc. Iowa Acad. Sci., **13**, 1906, (239-243, with pl.).

Guyénot, E. Sur le mode de nutrition de quelques larves de mouches. Paris, C.-R. soc. biol., **61**, 1906, (634-635). [*Diptera*.]

Haar, Dirk ter *vide* Oudemans, J. Th.

Hader, W. 1. Schnelle Entwicklung von *Smerinthus ocellata* L. Ent. Zs., Guben, **19**, 1906, (203). [*Lepidoptera*.]

Hader, W. 2. Schutzfärbung? Ent. Zs., Guben, **20**, 1906, (37).

(**Hagedorn, Mex.** Enumeratio *Scolytidarum* e Guyana, Venezuela et Colombia natarum musei historico-naturalis Parisiorum, descriptionibus specierum novarum adjectis. Bul. Muséum, Paris, **1905**, (412-415). [*Coleoptera*.])

Hamm, A. H. A permanent record of British moths in their natural attitudes of rest. London, Trans. Ent. Soc., **1906**, (483-486, pl. xxix). [*Lepidoptera*.]

Hammer, K. Eine neue Lokalform des *Megodontus germari* Sturm. D. ent. Zs., Berlin, **1906**, (384). [*Coleoptera*.]

Hampson, Sir George F. 1. On new *Thyrididae* and *Pyrilidae*. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (112-147, 189-222, 253-269, and 344-359). [*Lepidoptera*.]

Hampson, Sir G. F. 2. Descriptions of new *Pyrilidae* of the subfamilies *Hydrocampinae* and *Scoparianae*. Ann. Mag. Nat. Hist., London, ser. 7, **18**, 1906, (373-393 and 455-472), to be continued. [*Lepidoptera*.]

Hampson, Sir G. F. 3. Catalogue of the *Lepidoptera phalaenae* in the British Museum. Vol. 6, London, British Museum, 1906, (xiv + 532, pls. xvi-cvii).

Hampson, G. 4. The Moths of India. Supplementary paper to the volumes in the "fauna of British India." Ser. III, Part III. Bombay, J. Nat. Hist. Soc., **17**, 1906, (164-183, 447-478). [*Lepidoptera*.]

Hampson, Sir G. *vide* Elwes, H. J.

Hancock, Joseph Lane. 1. *Orthoptera*, Fam. *Aceridiidae*, Subfam. *Tetriginae*. Fasc. 48, Wytsman Genera Insectorum, 1906, (1-79, pls. i-iv).

Hancock, J. L. 2. Descriptions of new genera and species of the *Orthopterous* tribe *Tettigidae*. *Ent. News*, Philadelphia, Pa., **17**, 1906, (86-91).

Hancock, J. L. 3. On the *Orthopteran* genus *Ageneotettix*, with a description of a new species from Illinois. *Ent. News*, Philadelphia, Pa., **17**, 1906, (253-256).

Handlirsch, Anton. 1. A new blattoid from the Cretaceous formation of North America. [Transl. fr. German by Lucy Peck Bush.] Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **29**, 1906, No. 1439, (655-656). [*Orthoptera*.]

Handlirsch, A. 2. Revision of American Paleozoic insects. [Transl., by Lucy Peck Bush, of portion of the next work. With an introduction by Charles Schuchert and a chapter on "Geological position . . ." by David White.] Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **29**, 1906, No. 1441, (661-820.)

Handlirsch, A. 3. Die fossilen Insecten und die Phylogenie der rezenten Formen. Ein Handbuch für Paläontologen und Zoologen. Lief. 1-4, Leipzig, 1906, (1-640, 36 pls.). Svo. Incomplete.)

Hannemann, E. *Papilio machaon* L. iii. Generation. *Ent. Zs.*, Guben, **20**, 1906, (216); Bemerkung dazu v. A. Glöckner, T.c. 1907, (249-250). [*Lepidoptera*.]

Harrison, J. W. II. 1. Variation of *Polyommatus astrarche*, Bgstr., in Durham. *Ent. Rec.*, London, **18**, 1906, (236, 237). [*Lepidoptera*.]

Harrison, J. W. II. 2. A few odd notes on *Lycaenids* etc. *Ent. Rec.*, London, **18**, 1906, (247). [*Lepidoptera*.]

Harrison, Ruth M. Preliminary account of a new organ in *Periplaneta orientalis*. *Q. J. Microsc. Sci.*, London, **50**, 1906, (377-382, pl. xv). [*Orthoptera*.]

Hart, Charles Arthur. Notes of a winter trip in Texas, with an annotated list of the *Orthoptera*. *Ent. News*, Philadelphia, Pa., **17**, 1906, (154-160).

Hartmann, F. Beitrag zur *Curetioniden*-Fauna Transvaals. *D. ent. Zs.*, Berlin, **1906**, (65-84). [*Coleoptera*.]

Haupt, H. 1. Bemerkungen zu Zeller's Tagebuchnotizen über *Acentropus nireus*. *Wochenschr. Aquarienkunde*, Braunschweig, **3**, 1906, (355-356). [*Lepidoptera*.]

Haupt, H. 2. Ein Beitrag zur Metamorphose der *Libellen*. *Wochenschr. Aquarienkunde*, Braunschweig, **3**, 1906, (382-384). [*Odonata*.]

Hautefeuille. Les *Diptères* parasites des cavités naturelles chez l'homme. *Amiens, Bul. soc. linn.*, **18**, 1906, (81-90).

Haverkamp, Fritz. Captures de *Lépidoptères* faites en Belgique en 1905. *Bruxelles. Ann. Soc. ent. Belgique*, **50**, 1906, (155-160).

Headlee, Thomas J. Blood gills of *Simulium pictipes*. *Amer. Nat.*, Boston, Mass., **40**, 1906, (875-885). [*Diptera*.]

Hebard, Morgan vide Rehn, James.

Heidemann, O. Account of a new Tingitid. Washington, D.C., Proc. Ent. Soc., **8**, 1906, 10-13). [*Hemiptera*.]

Heller, K. M. 1. Neue Rüsselkäfer aus Central- und Südamerika. *Stettiner ent. Ztg.*, **67**, 1906, (3-50, 1 Taf.). [*Colcoptera*.]

Heller, K. M. 2. Bemerkung zu *Actinobolus radians* Westw. *D. ent. Zs.*, Berlin, **1906**, (96). [*Colcoptera*.]

(**Heller, K. M.** 3. Die Arten der Gattung *Pantorhytes* Faust. *Entomol. Ztg.*, Wien, **24**, 1905, (305-310). [4831].)

Helliesen, Tor. Fortegnelse over Coleoptera, hørende til grupperne *Cerambycidae*, *Chrysomelidae* og *Coccinellidae*, fundne paa Jaederen og i Ryfylke. (Fortsettelse fra Stavanger Museums Aarsberetning for 1897). [Verzeichnis der in Jaederen und in Ryfylke gefundenen *Cerambycidae*, *Chrysomelidae* und *Coccinellidae*. (Fortsetzung des im Jahresbericht für 1897 enthaltenen Verzeichnisses.)] Stavanger, Mus. Aarsrh., **16**, (1905), 1906, (37-51). [*Coleoptera*.]

Hellweger, M. *Hybernica aurantiaria* Bkh. nova ♂ ab. *fumipennaria* m. *Ent. Zs.*, Guben, **20**, 1906, (210-211). [*Lepidoptera*.]

(**Hendel, Friedrich.** 1. *Rhynchopsilops* nov. gen. *Anthomyidarum* (Dipt.). *Entomol. Ztg.*, Wien, **22**, 1903, (129-131). [4231].)

(Hendel, F. 2. Ueber die systematische Stellung von *Tanypeza* Fall. Entomol. Ztg., Wien, **22**, 1903, (201-205). [4231].)

(Hendel, F. 3. Kritische Bemerkungen zur Systematik der *Muscidae acalyptratae*. Entomol. Ztg., Wien, **22**, 1903, (249-252). [4231].)

Henderson, Robert. The *Diptera* of Clyde, being a list of species of the families *Platypezidae*, *Pipuneulidae*, *Syrphidae* and *Conopidae*, not recorded in Mr. P. H. Grimshaw's list (Fauna and Flora, etc., of Clyde 1901) and of additional localities for most of the uncommon species there recorded. Glasgow, Trans. Nat. hist. Soc., N. Ser., **7**, 1903, (148-154).

(Henneguy, F. 1. Sur la multiplication des cellules ganglionnaires dans les centres nerveux chez les Insectes à l'état de larves et de nymphes. Paris, Bul. soc. ent., **1903**, (324-326). [3563 3515].)

(Henneguy, F. 2. Sur le prétendu dimorphisme sexuel chez les *Heliconia*. Paris, Bul. soc. ent., **1905**, (146-147). [4419 4431].)

(Henneguy, F. 3. Les Insectes: Morphologie, Reproduction, Embryogénie. Leçons recueillies par A. Lécaillon et G. Poirault. Paris (Masson), 1904, (xx + 804, av. 622 fig. et 4 pl.), Svo. [2403].)

Hennings, Curt. 1. Experimentellbiologische Studien an Borkenkäfern. 1. *Tomieus typographus* L. Natw. Zs. Landw., Stuttgart, **5**, 1906, (66-75, 97-125). [*Coleoptera*.]

Hennings, [K.]. 2. Sinneswahrnehmungen bei Insekten. Karlsruhe, Verh. natw. Ver., **19**, (1905-1906), 1906, (15-18^o).

Henshaw, Samuel. Roland Hayward. Psyche, Cambridge, Mass., **13**, 1906, (101-103), portrait.

Herbst, Pablo *vide* Kieffer, J. J.

Hering, Ed. Neue exotische Kleinfalter des Stettiner Museums und Bemerkungen zu älteren Arten. Stettiner ent. Zs., **67**, 1906, (51-106). [*Lepidoptera*.]

Hermann, F[riedrich]. Beitrag zur Kenntnis der *Asiliden*. ii. Zs. Hymenopter., Teschendorf, **6**, 1906, (129-144, 1 Taf.). [*Diptera*.]

Herzog, Maximilian. Zur Frage der Pestverbreitung durch Insekten. Eine neue Species von Rattenfloh *Pulex philippinensis* nov. spec. Zs. Hyg., Leipzig, **51**, 1905, (268-282, mit 1 Taf.). [*Aphaniptera*.]

Hesse, E. *Lucilia* in *Bufo vulgaris* Laur. schmarotzend. Biol. Centralbl., Leipzig, **26**, 1906, (633-640, pl.). [*Diptera*.]

(Hetschko, Alfred. Repertorium der coleopterologischen Publicationen Edm. Reitter's 1893 bis 1902. Entomol. Ztg., Wien, **22**, 1903, (157-170, 181-200. [4803].)

Hewitt, C. Gordon. Some observations on the reproduction of the *Hemiptera-Cryptocerata*. London, Trans. Ent. Soc., **1906**, (87-90).

Heyden, L. von. 1. Ueber 2 anomale Flügeldeckenzeichnungen bei *Coleoptera*. D. ent. Zs., Berlin, **1906**, (473).

Heyden, L. v. 2. Beiträge zur Kenntnis der *Hymenopteren*-Fauna der weiteren Umgegend von Frankfurt a. M., Tl. 13 und Tl. 14. Frankfurt a. M., Ber. Senckenb. Ges., **1906**, (53-63).

Heyden, L. v. 3. Die Varietäten der *Crioceris asparagi* L. und *maeilenta* Weise. Entomol. Ztg., Wien, **25**, 1906, (123-126). [*Coleoptera*.]

Heyden, L. v. 4. Richtigstellung der Namen *Heliopathes* und *Heliophilus* bei den *Tenebrionidae*. Entomol. Ztg., Wien, **25**, 1906, (135-136). [*Coleoptera*.]

Heyden, L. v. 5. Bemerkungen zur Monographie der *Coleopteren*-Tribus *Hyperini* von K. Petri. Entomol. Ztg., Wien, **25**, 1906, (137-138).

Heyden, L. v. 6. *Oberea oculata* L. var. *borysthenica* Mokr. (1902) = var. *inoculata* Heyden (1892). Entomol. Ztg., Wien, **25**, 1906, (146-147). [*Coleoptera*.]

Heyden, L. v. 7. Ueber *Amphimallus lusitanicus* Gyll. und *cantabrieus* Heyd. Entomol. Ztg., Wien, **25**, 1906, (246). [*Coleoptera*.]

Heyden, L. v. 8. Erscheinungszeit der Faszikel der Fauna Insectorum Europae. Entomol. Ztg., Wien, **25**, 1906, (284).

Heyden, L. v. v. Ganglbauer, Ludwig.

Heyden, L. v. and others *vide* Reitter. Edmund, 48.

Heylaerts, F. J. M. 1. Remarques sur quelques psychides. Bruxelles. Ann. Soc. ent. Belgique, 1906, (97-100). [*Lepidoptera.*]

Heylaerts, F. J. M. 2. Description de deux nouvelles espèces de *Psychides* d'Asie. Bruxelles, Ann. Soc. ent. Belgique, 1906, (101-102). [*Lepidoptera.*]

Heymons, Richard. 1. Ueber einen Apparat zum Oeffnen der Eischale bei den *Pentatomiden*. Zs. wiss. Insektenbiol., Husum, 2, 1906, (73-82). [*Hemiptera.*]

Heymons, R. 2. Ueber die ersten Jugendformen von *Machilis alternata* Silv. Ein Beitrag zur Beurteilung der Entwicklungsgeschichte bei den Insekten. Berlin, Sitzber. Ges. natf. Freunde, 1906, (253-259). [*Thysanura.*]

Heyn, Karl. Eine neue *Deilemra* (*Nyctemera*). Ent. Zs., Guben, 19, 1906, (213-214). [*Lepidoptera.*]

Hiller, R. 1. Zweite Generation von *Deilephila gallii* Rott. Ent. Zs., Guben, 19, 1906, (179-180). [*Lepidoptera.*]

Hiller, R. 2. Zur Zucht von *Selenophera lunigera* Esp. und ab. *lobulina* Esp. Ent. Zs., Guben, 19, 1906, (200). [*Lepidoptera.*]

Hinde, S. L. On the habits of a species of *Ptyelus* in British East Africa. With notes by E. B. Poulton. London, Trans. Ent. Soc., 1906, (225-229, pl. xiii). [*Homoptera.*]

Hinderer, W. Ein eigentümlicher Fall von Ueberliegen. Ent. Zs., Guben, 19, 1906, (218). [*Lepidoptera.*]

Hinds, W. E. Proliferation as a factor in the natural control of the Mexican cotton boll weevil. Washington, D.C., Bull. U. S. Dept. Agric. ent. 59, 1906, (1-45, pls. i-vi). [*Coleoptera.*]

Hine, James S[tewart]. 1. Habits and life histories of some flies of the family *Tabanidae*. Washington, D.C., Tech. Ser., U. S. Dept. Agric., Bur. Ent., No. 12, pt. 2, 1906, (i-iii + 19-38). [*Diptera.*]

Hine, J. S. 2. The North American species of *Tabanus* with a uniform middorsal stripe. Ohio Nat., Columbus, Ohio, 7, 1906, (19-28). [*Diptera.*]

Hine, J. S. 3. Two new species of *Diptera* belonging to *Asilinae*. Ohio Nat., Columbus, Ohio, 7, 1906, (29-30).

Hine, J. S. 4. A preliminary report on the horseflies of Louisiana, with a discussion of remedies and natural enemies. Circ. 6, State Crop Pest Comm. Louisiana, 1906, (1-43). [*Diptera.*]

Hine, J. S. 5. A preliminary report on the horseflies of Louisiana, with a discussion of remedies and natural enemies. Cameron, La., Gulf Biol. Sta. Bull., No. 5, 1906, (1-43). [*Diptera.*]

Hine, J. S. 6. A second contribution to the region of the Gulf biologic station. Cameron, La., Gulf Biol. Sta., Bull., No. 6, 1906, (65-83, pl.).

[Hirschler, J.] *Badania embryologiczne nad motylem Catocala nupta* L. (*Lepidoptera*). [Embryologische Untersuchungen an *Catocala nupta* L.] Kraków, Bull. Intern. Acad., 1905, 1906, (802-810).

Hock, Karl. Ueber die Verbreitung der Schmetterlinge in der Umgegend von Aschaffenburg. Aschaffenburg, Mitt. natw. Ver., 5, 1906, (75-79). [*Lepidoptera.*]

[Höltzermann, Friedrich.] Гельцерманъ, Ф. Каталогъ чешуекрылыхъ окрестностей города Перми. [Katalog der Schmetterlinge aus der Umgebung der Stadt Perm.] Mater. faun. flor. Ross. Moskva, Zool., 7, 1906, (1-81). [*Lepidoptera.*]

Höfner, Gabriel. Die Schmetterlinge Kärntens. Klagenfurt, Jahrb. Nat.-Hist. Id. Mus., Kärnten, 27, 1905, (179-416). [*Lepidoptera.*]

Hoffer, Eduard [and others]. Bericht der entomologischen Sektion über ihre Tätigkeit im Jahre 1905. Graz, Mitt. Natw. Ver. Steierm., 42, 1906, (xliii-c).

Hoffmann, Fritz. 1. Beitrag zur Zucht des *Bombyx quereus*. Ent. Zs., Guben, 20, 1906, (52-53). [*Lepidoptera.*]

Hoffmann, F. 2. Ueberliegen der Puppen von *Lem[onia] dumi*. Ent. Zs., Guben, 20, 1906, (53).—Nachtrag dazu v. A. Harsch, T.c. (89-90); v. F. Hoffman, T.c. 1907, (257). [*Lepidoptera.*]

Holdhaus, Karl. Die Verbreitung der Coleopteren in den mitteleuropäi-

schen Hochgebirgen. Wien. Verh. Zool.-Bot. Ges. Wien, **1906**, (629-639).

Holmes, Samuel J[ackson]. Death-feigning in *Ranatra*. J. Comp. Neur. Psych., Granville, Ohio, **16**, 1906, (200-216). [*Hemiptera*.]

Holmgren, Nils. 1. Die systematische Stellung des *Termitomastus leptoproctus* Silv. Zool. Anz., Leipzig, **30**, 1906, (140). [*Diptera*.]

Holmgren, N. 2. Studien über südamerikanische Termiten. Zool. Jahrb. Jena, Abt. f. Syst., **23**, 1906, (521-676).

Holtz, Martin. *Mallosia graeca* Sturm. Insektenbörse, Leipzig, **23**, 1906, 159-160). [*Coleoptera*.]

Holyoak, H. Fifty years entomological reminiscences. Leicester, Trans. Lit. Phil. Soc., **10**, 1906, (55-59).

Hooker, W. A. The tobacco thrips and remedies to prevent "white veins" in wrapper tobacco. (*Euthrips nicotianae* Hinds.) Washington, D.C., Cir., U. S. Dept. Agric., Bur. Ent., No. **68**, 1906, (1-5).

Hopkins, A[ndrew] D[elmar]. 1. Insect enemies of forest reproduction. Washington, D.C., Yearbook, U. S. Dept. Agric., **1905**, 1906, (249-256).

Hopkins, A. D. 2. Some insects injurious to forests. The locust borer. (*Cyllene robiniae* Forst.) Washington, D.C., Bull., U. S. Dept. Agric., Bur. Ent., No. **58**, 1906, (i-iv + 1-16). [*Coleoptera*.]

Hopkins, A. D. 3. Barkbeetle depredations of some fifty years ago in the Pikes Peak region of Colorado. Washington, D.C., Proc. Ent. Soc., **8**, 1906, (4-5). [*Coleoptera*.]

Horn, Walther. 1. Léon Fairmaire†. D. ent. Zs., Berlin, **1906**, (11).

Horn, W. 2. Richard Zang†. D. ent. Zs., Berlin, **1906**, (12).

Horn, W. 3. Das Genus *Tricondyla* Latr. et Dej. D. ent. Zs., Berlin, **1906**, (17-33). [*Coleoptera*.]

Horn, W. 4. *Odontochila bennigseni euryoides* (nov. subsp.) und das System der *Cicindelini*. D. ent. Zs., Berlin, **1906**, (85-86). [*Coleoptera*.]

Horn, W. 5. Ueber die neotropischen Arten der *Cicindela argentata*-

Gruppe. D. ent. Zs., Berlin, **1906**, (87-92). [*Coleoptera*.]

Horn, W. 6. Beitrag zur Erkenntnis der Zeichnungs-Abänderungen bei *Cicindeliden*. D. ent. Zs., Berlin, **1906**, (173-174, 1 Taf.). [*Coleoptera*.]

Horn, W. 7. *Odontochila lacordairei* Gory rytidopteroides (nov. subsp.) und über das Vorkommen verschiedener Rassen derselben Species am selben Ort. D. ent. Zs., Berlin, **1906**, (175-176). [*Coleoptera*.]

Horn, W. 8. Ueber das Vorkommen von *Tetracha carolina* L. im preussischen Bernstein und die Phylogenie der *Cicindela*-Arten. D. ent. Zs., Berlin, **1906**, (329-336). [*Coleoptera*.]

Horn, W. 9. Ernst Gustav Kraatz, [In] Prof. Dr. G. Kraatz, hrsg. v. d. D. Ent. Ges. Berlin (A. W. Schade). 1906, (7-70, Portr.).

Horn, W. 10. *Cicindelidae*. Nova Guinea. Résultats de l'Expédition scientifique Néerlandaise à la Nouvelle-Guinée en 1903 sous les auspices de Arthur Wichmann, Chef de l'Expédition. Leide (E. J. Brill), **5**, Livr. 1, 1906, (19-20). [*Coleoptera*.]

Horrocks, W. H. and Kennedy, J. C. Mosquitoes as a means of dissemination of Mediterranean Fever. London, R. Soc. Repts. Comm. Mediterran. Fever Pt. IV, 1906, (70-82, 1 pl.).

Horváth, G. 1. A new gall-inhabiting bug from Bengal. Ent. Mag., London, **42**, 1906, (33. 34). [*Heteroptera*.]

Horváth, G. 2. Sur quelques Hémiptères nuisibles de Cochinchine. Paris, Bul. soc. ent., **1906**, (295-297).

Horváth, G. 3. Synopsis *Tingitidarum* regionis palaearticae. Ann. Hist.-Nat. Mus. Nat. Hung., Budapest, **4**, 1906, (1-118, Tab. 1). [*Hemiptera Heteroptera*.]

Horváth, G. 4. Description de deux *Plinthisus* nouveaux. Ann. Hist.-Nat. Mus. Nat. Hung., Budapest, **4**, 1906, (271-275). [*Hemiptera*.]

Horváth, G. 5. Monographia generis *Hemipterorum Odontotarsus* Lap. Ann. Hist.-Nat. Mus. Nat. Hung., Budapest, **4**, 1906, (463-483).

Horváth, G. 6. A palaearktikus faunaterület Tingitidái. [Über die *Tin-*

gitiden des palaearktischen Faunengebiets.] Math. Term. Ért., Budapest, **24**, 1906, (495-502). [*Hemiptera Heteroptera.*]

Horváth, G. 7. Un genre nouveau des *Capsides*. Ann. Hist.-Nat. Mus. Nat. Hung., Budapest, **4**, 1906, (545-546). [*Hemiptera.*]

Horvath, G. 8. Les *Tingitides* d'Achille Costa. Napoli, Annuario Museo zool., N. Ser., **2**, No. 10, 1903, (1-3). [*Hemiptera.*]

Horváth, G. 9. *Hemipteren* [in Penther and Zederbauer, Reise zum Erdschias-Dagh.] Wien, Ann. Nat. Hist. Hofmus., **20**, (179-189).

Horváth, G. 10. Collections recueillies par M. J. de Morgan en Perse. *Hémiptères* du genre *Mustha*. Bul. Muséum, Paris, **1906**, (514-517).

Houard, C. 1. Sur l'identité de structure des galles involucrales et des galles des pousses feuillés chez les Euphorbes. Paris, C.-R. Acad. sci., **142**, 1906, (1435-1437).

Houard, C. 2. Sur les modifications histologiques apportées aux fleurs du *Teucrium chamædrys* et du *Teucrium montanum* par des larves de *Copium*. Paris, C.-R. Acad. sci., **143**, 1906, (927-929).

Houard, C. 3. Les galles de l'Afrique occidentale française. III et IV. Marcellia, Avellino, **5**, 1906, (3-22).

Houard, C. 4. Sur un *Coléoptéroécidie* du Maroc. Marcellia, Avellino, **5**, 1906, (32-38).

Houard, C. 5. Cécidies produites par le *Perrisia capsulae* Kieff. sur l'*Euphorbia cyparissias* L. Marcellia, Avellino, **5**, 1906, (61-65). [*Diptera.*]

Houard, C. 6. Glanures cécidologiques. Marcellia, Avellino, **5**, 1906, (65-69).

Houard, C. 7. Modifications histologiques produites par des *Copium* dans les fleurs des *Teucrium*. Marcellia, Avellino, **5**, 1906, (83-101). [*Hemiptera.*]

Houghton, C. O. Notes on *Caenocara oculata* Say. Ent. News, Philadelphia, Pa., **17**, 1905, (114-115). [*Coleoptera.*]

Houlbert, Constant. 1. La station entomologique de l'Université de Rennes. Paris, C.-R. Ass. franç. avanc.

sci., **34**, (Cherbourg, 1905, 2^e Partie), 1906, (528-531).

Houlbert, C. 2. Les chênes du Thabor et le *Liparis chrysorrhea*. Trav. Univ., Rennes, **4**, 1905, (252-257).

(Houlbert, C. **3.** Les chênes du Thabor et le *Liparis chrysorrhea*. Rennes, Bul. soc. sci. méd., **14**, 1905, (113-120, av. fig.). [4403 4431])

Howard, L. O. 1. On the parasites of *Diaspis pentagona*. Redia, Firenze, **3**, 1906, (389-392). [*Hymenoptera.*]

Howard, L. O. 2. Polyembryony and the fixing of sex. Science, New York, N.Y., **24**, 1906, (810-818). [*Hymenoptera.*]

Howard, L. O. 3. An interesting new genus and species of *Encyrtidae*. Ent. News, Philadelphia, Pa., **17**, 1906, (121-122). [*Hymenoptera.*]

Howard, L. O. 4. On the parasites of *Diaspis pentagona*. Ent. News, Philadelphia, Pa., **17**, 1906, (291-293). [*Hymenoptera.*]

Howard, L. O. 5. The gypsy and brown-tail moths and their European parasites. Washington, D.C., Yearbook U. S. Dept. Agric., **1905**, 1906, (123-138, pls. i and ii). [*Lepidoptera.*]

Howard, L. O. 6. The brown-tail moth and how to control it. Washington, D.C., U. S. Dept. Agric. Farmers' Bull., **264**, (1-22). [*Lepidoptera.*]

Howard, L. O. 7. House flies. [*Musca domestica* et al.] Washington, D.C., Cir. U. S. Dept. Agric., Bur. Ent., No. **71**, 1906, (1-9). [*Diptera.*]

(Howard, L. O. **8.** Les principaux insectes nuisibles importés d'Europe aux Etats Unis. Paris, Bul. soc. ent., **1906**, (231-233). [2431 2427 d g].)

Howes, G. 1. Note on the occurrence of two rare and two introduced moths. Wellington, Trans. N. Zeal. Inst., **38**, 1906, (509). [*Lepidoptera.*]

Howes, G. 2. New species of *Lepidoptera*. Wellington, Trans. N. Zeal. Inst., **38**, 1906, (510-511, pl. xlv.).

Hübner, J. et Geyer, C. *Lépidoptères exotiques* (1806-1837), par J. HÜBNER et C. GEYER. Nouvelle édition revue, corrigée et augmentée, publiée par W. F. Kirby. Bruxelles, Livr. **40**, 1906, plates cccxi-ccxcix.

Hudd, E. *vide* Blathwayt, Linley.

Hudson, G. V. Notes on insect swarms on mountain-tops in New Zealand. Wellington, Trans. N. Zeal. Inst., **38**, 1906, (334-336).

Hueber, Theodor. Synopsis der deutschen Blindwanzen (*Hemiptera heteroptera*, Fam. *Capsidae*). [IX.] Stuttgart, Jahreshefte Ver. Natk., **62**, 1906, (201-262).

Hulst, Francis A. The histolysis of the musculature of *Culex pungens* during metamorphosis. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **11**, 1906, (277-304, pl.). [*Diptera*.]

Hutchinson, Jon. Mosquitos and Leprosy. [Letter.] Brit. Med. J. London, **1906**, ii, (1841).

Hutton, F. W. In Memoriam of. Wellington, Trans. N. Zeal. Inst., **38**, 1906, (v-vii, portr.).

Huwe, Adolf. Neue oder anscheinend noch unbeschriebene und wenig bekannte *Sphingiden* aus meiner Sammlung. Berliner ent. Zs., **50**, (1905), 1906, (315-330, pl. vi). [*Lepidoptera*.]

Ikeda, Yeitarō. Haishi no Hatsniku ni tsuite. [On the embryology of *Bombyx mori* L.] Tokyo, Nip. Sanshi Kw. Hō, **164**, 1906, (12-16); **165**, (14-18). [*Lepidoptera*.]

Imms, A. D. **1.** On the life-histories of the ox warble flies *Hypoderma bovis* (De Geer) and *H. lineata* (Villers). J. econ. Biol., London, **1**, 1906, (74-91). [*Diptera*.]

Imms, A. D. **2.** L.M.B.C. Memoirs, XIII, *Anurida*. London, 1906, 8vo, (viii + 99, pls. i-vii). [*Collembola*.]

International Catalogue of Scientific Literature. Third annual issue. N. Zoology, part i. Author Catalogue (viii + 432). Part ii, Invertebrata [*Insecta*] (427-963). London, 8vo, 1906.

International Catalogue of Scientific Literature. Fourth annual issue. N. Zoology. Part i, Author Catalogue (viii + 405). Part ii, Invertebrata. [*Insecta*] (423-851). London, 8vo, 1906.

Jablonowski, József. **1.** A cukorrépa állatellenségei. [Die Tierfeinde der Zuckerrübe.] Budapest, 1906, (1-288).

Jablonowski, J. **2.** A hortobágyi sáskajárás. [Heuschrecken in der Hortobágy.] Rovart. L., Budapest, **13**, 1906, (199-203). [*Orthoptera*.]

Jablonowski, J. **3.** A répalevelet pusztító pajzsos bogarak. [Die Schildkäfer als Schädlinge der Rüben.] Rovart. L., Budapest, **13**, 1906, (135-140, 157-162). [4803]. [*Coleoptera*.]

[**Jachontov, A. A.**] **1.** Яхонтовъ, А. А. Опыты съ гусеницами и куколками *Vanessa urticae* L. (*Lepidoptera*, *Nymphalidae*). [Quelques expériences avec les chenilles et chrysalides de *Vanessa urticae* L. (*Lepidoptera*, *Nymphalidae*).] Rev. russ. ent., St. Petersburg, **6**, 1906, (10-18).

[**Jachontov, A. A.**] **2.** Яхонтовъ, А. А. Материалы по фаунѣ *Lepidoptera-Rhopalocera* Владимирской и Нижегородской губерній. [Beiträge zur Fauna der *Lepidoptera-Rhopalocera* der Gouv. Vladimir und Nijui-Novgorod.] Mater. faun. flor. Russ., Moskva, Zool., **7**, 1906, (93-145).

Jackson, C. F. Key to the families and genera of the order *Thysanura*. Ohio Nat., Columbus, Ohio, **6**, 1906, (545-549).

Jacobi, A. Über den Funktionswechsel im Tierkörper. Dresden, Sitzber. Ges. Iris., **1906**, (108-120).

Jacobs, H. *Chaerocampa* hybr. *fernoldi* Jcs. Ein neuer Bastard aus der Familie der *Sphingidae*. D. ent. Zs. Iris, Berlin, **18**, (1905), 1906, (321-327, 1 Taf.). [*Lepidoptera*.]

Jacobs, J. C. *Diptères de la Belgique*. IV^e suite. Bruxelles, Mem. Soc. ent. Belgique, **12**, (21-75).

Jacobson, G. **1.** *Donacia clavarcaui* spec. nova. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (311). [*Coleoptera*.]

[**Jacobson, G. G.**] **2.** Якобсо́въ, Г. Г. Жуки Россіи и Западной Европы. Руководство къ опредѣленію жуковъ. [Die Käfer Russlands und Westeuropas. Ein Handbuch zum Bestimmen der Käfer.] Lief. IV. St. Petersburg, [A. F. Devrient], 1906, (241-320, mit Taf. 28, 30-33, 35, 36, 38). [*Coleoptera*.]

Jacobson, G. **3.** *Labidostomis sardca* n. sp. Riv. Coleotter. ital., Camerino, **4**, 1906, (30-31). [*Coleoptera*.]

Jacoby, Martin. **1.** Descriptions of some new genera and species of Phytophagous *Coleop'era* from New Guinea. Entomologist, London, **29**, 1906, (1-4).

Jacoby, M. **2.** Description of another new species of *Aesenia* (*Coleopt. Chryso-*

melinae) from New Guinea. Entomologist, London, **39**, 1906, (25).

Jacoby, M. 3. Descriptions of new species of Phytophagous *Coleoptera* of the genera *Homophocta*, *Asphaera* and *Oedionychis*. London, Proc. Zool. Soc., **1905**. (398-460, 591-592, pls. xiv, xv).

Jacoby, M. 4. Descriptions of new genera and species of African *Halticinae* and *Galerucinae*. London, Trans. Ent. Soc., **1906**, (11-52), pl. iii. [*Coleoptera*.]

Jacoby, M. 5. Report on the Phytophagous beetles. Fascic. malayenses, Zool., pt. 3, London, 1906. (135-148). [*Coleoptera*.]

Jacoby, M. and Clavareau, H. *Coleoptera Phytophaga*, Fam. *Chrysomelidae*, subfam. *Clytrinae*. Fasc., **49**, Wytsman Genera Insectorum, 1906, (1-87, pls. i-v).

[**Jakovlev, B. E.**] **1.** ЯКОВЛЕВЪ, Б. Е. НОВЫЙ ВИДЪ *Neodoreadion* Ganglb. [*Coleoptera*, *Cerambycidae*]. [Nouvelle espèce du genre *Neodoreadion* Ganglb.] Rev. russ. ent., St. Petersburg, **6**, 1906, (1-2).

[**Jakovlev, B. E.**] **2.** ЯКОВЛЕВЪ, Б. Е. Обзоръ видовъ подрода *Compsodoreadion* Ganglb. (*Coleoptera*, *Cerambycidae*). [Revision des espèces du sous-genre *Compsodoreadion* Ganglb.] Rev. russ. ent., St. Petersburg, **6**, 1906, (32-48).

[**Jakovlev, B. E.**] **3.** ЯКОВЛЕВЪ, Б. Е. Обзоръ видовъ рода *Byrsinus* Fieb. (*Hemiptera-Heteroptera*, *Pentatomidae*) русско-азиатской фауны. [Aperçu des espèces du genre *Byrsinus* Fieb. de la faune russo-asiatique.] Rev. russ. ent., St. Petersburg, **6**, 1906, (52).

[**Jakovlev, V. E.**] **4.** ЯКОВЛЕВЪ, В. Е. *Hemiptera - Heteroptera* Таврической губернии [Les Hemiptères-Hétéroptères du gouvernement de Tauride.] St. Petersburg, Hor. Soc. Ent. Russ., **37**, 1906, (220-246).

Janet, Charles. 1. Remplacement des muscles vibrateurs du vol par des colonnes d'adipocytes chez les Fourmis, après le vol nuptial. Paris, C.-R. Acad. sci., **142**, 1906, (1095-1097).

Janet, C. 2. Sur un organe non décrit du thorax des fourmis ailées. Paris, C.-R. Acad. sci., **143**, 1906, (522, 523). [*Hymenoptera*.]

Janet, C. 3. Anatomie de la tête du *Lasius niger*. Limoges, 1905, (1-40, pls. i-vi). Svo. [*Hymenoptera*.]

(**Janet, A. 4.** Description d'une nouvelle espèce de Lépidoptères de l'Indo-Chine. Paris, Bul. soc. ent., **1905**, (215-216). [1431 4427 ed].)

Japha, [A.] 1. Über tonerzeugende Schmetterlinge. Königsberg, Schr. Physik. Ges., **46**, 1906, SitzBer., 132-136). [*Lepidoptera*.]

Japha, [A.] 2. Zur Biologie der Tsetsefliege. Königsberg, Schr. Physik. Ges., **46**, 1906, (147-149). [*Diptera*.]

Jarren, W[illia]m. Photographische Darstellungen der letzten Häutung der Raupe des Ligusterschwärms. Kosmos, Stuttgart, **3**, 1906, (347-350). [*Lepidoptera*.]

Jasilkowski, Siegmund. Weitere *Colcopterenfunde* aus der Bukowina. Insektenbörse, Leipzig, **23**, 1906, (83-84, 87-88, 91-92).

Jeannel, R. 1. Contribution à la faune cavernicole des Basses-Pyrénées. Paris, Bul. soc. ent., **1906**, (22-24). [*Coleoptera*.]

Jeannel, R. 2. Remarques sur *Sittitia balsetensis* Abeille et sur la faune aquatique hypogée. Paris, Bul. soc. ent., **1906**, (98-101). [*Coleoptera*.]

Jeannel, R. 3. Description du sexe femelle de *Bathyscia alexinar* var., *ittana* Jeannel. Paris, Bul. soc. ent., **1906**, (151-152). [*Coleoptera*.]

Jeannel, R. 4. Description du sexe mâle de *Acinopus pilipes* Piochard de la Brûlerie. Paris, Bul. soc. ent., **1906**, (142-143). [*Coleoptera*.]

Jeannel, R. 5. Description de deux nouveaux *Bathyscia* cavernicoles de l'Ariège. Paris, Bul. soc. ent., **1906**, (244-247). [*Colcoptera*.]

Jeannel, R. 6. Description d'un nouveau *Silphide* cavernicole des Pyrénées orientales. Paris, Bul. soc. ent., **1906**, (275-276). [*Coleoptera*.]

(**Jeannel, R. 7.** Note sur une anomalie antennaire observée chez *Carabus splendens* Fabr. Paris, Bul. soc. ent., **1905**, (143-144, av. fig.). [4831].)

Jenne, E. L. vide Melander, A. L.

Jenner, J. H. A. Nature near Eastbourne. S.E. Nat., Tunbridge Wells, 1906, (18-26). [*Lepidoptera*.]

Jensen-Haarup, A. C. A new species of the genus *Berosus*. Kjöbenhavn, Ent. Medd., Ser. 2, 3, 1906, (50-51). [*Coleoptera*.]

Joannis, J. de. 1. Description de Lépidoptères nouveaux de l'île Maurice. Paris, Ann. soc. ent., 75, 1906, 169-183, pl. ix.

Joannis, J. de. 2. Rectifications relatives à quelques noms de *Micro-lépidoptères*. Paris, Bul. soc. ent., 1906, (154-155).

(Joannis, J. de. 3. Observations sur la chenille d'*Aporophylla australis* Bd. Paris, Bul. soc. ent., 1903, (157-158). [4631 4619].)

(Joannis, J. 4. Description de deux Lépidoptères hétérocères nouveaux provenant de Nova Friburg Montagnes des Orgues, Brésil. Paris, Bul. soc. ent., 1904, (289-291). [4431 4427 *hl*].)

Jørgensen, P. 1. Beitrag zur Biologie der Blattwespen (*Chalastogastra*). Zs. wiss. Insektenbiol., Husum, 2, 1906, (347-351). [*Hymenoptera*.]

Jørgensen, P. 2. De danske galledannende Cynipider. [A monograph of the gall-producing *Cynipidae* in Denmark, with a description of their galls.] Kjöbenhavn, Ent. Medd., Ser. 2, 3, 1906, (85-112, pl. x). [*Hymenoptera*.]

Jørgensen, P. 3. De danske Arter af Bladhvepseslægten *Pontania*, Costa. [The Danish species of *Pontania*, a genus of the family *Tenthredinidae*; their larvae and galls.] Kjöbenhavn, Ent. Medd., Ser. 2, 3, (113-126, pl. x). [*Hymenoptera*.]

Johansen, Joh. P. Meddelelse om Fund af adskillige for Faunaen nye og af nogle kendte, sjældne Biller iii. [A list of several new and some well-known but rare *Coleoptera* in the fauna of Denmark iii.] Kjöbenhavn, Ent. Medd., Ser. 2, 3, 1906, (65-84).

Johnson, Charles W[illison]. 1. Notes on some *Dipterous* larvae. Psyche, Boston, Mass., 13, 1906, (1-4, pl. i).

Johnson, C. W. 2. Descriptions of two new *Diptera* of the family *Dolichopodidae*. Psyche, Boston, Mass., 13, 1906, (59-60).

Johnson, C. W. 3. The distribution of the periodical *Cicada* in New England in 1906. Psyche, Cambridge, Mass., 13, 1906, (159). [*Homoptera*.]

Johnson, C. W. 4. Charles Robert v. d. Osten Sacken. Ent. News, Philadelphia, Pa., 17, 1906, (273-275).

Johnson, S. Arthur. 1. An emergency case in insect architecture. Ent. News, Philadelphia, Pa., 17, 1906, (139). [*Hymenoptera*.]

Johnson, S. A. 2. The cottony maple scale. Agric. Exp. Sta. Colorado Bull., 116, 1906, (1-16). [*Coccidae*.]

Johnson, W. F. *Coleoptera* from Co. Fermanagh. Irish Nat., Dublin, 1906, (139-142).

Johnson, Fred and Girault, A. [Arsene]. The plum curculio. (*Conotrachelus nenuphar* Herbst.) Washington, D.C., U.S. Dept. Agric., Bur. Ent., No. 73, 1906, (1-10). [*Coleoptera*.]

Jones, A. H. Notes on the *Lepidoptera* of the Balearic islands. Ent. Mag., London, 42, 1906, (170, 171).

Jones, Burle J. Catalogue of the *Ephydridae*, with bibliography and description of new species. Berkeley, Univ. Cal. Pub., Tech. Bull., Coll. Agric., Exp. Sta., Ent. 1, 1906, (153-198, pl.). [*Diptera*.]

Jones, Paul R. A new *Cuterebra* from Nebraska. Ent. News, Philadelphia, Pa., 17, 1906, (391-392). [*Diptera*.]

Jordan, David Starr. Rambur and the nature of species. Science, New York, N.Y., N. Ser., 23, 1906, (350-351).

Jordan, Karl. 1. Insecta transvaalensia, (160-164). cf. *Distant*, 21. [*Coleoptera*.]

Jordan, K. 2. Some new *Anthrribidae* from the collection of H. E. Andrewes. Nov. Zool., Tring, 13, 1906, (408, 409). [*Coleoptera*.]

Jordan, K. 3. Two new *Xenocerus* (*Anthrribidae*) in the collection of R. von Bennigsen. Nov. Zool., Tring, 13, 1906, (410). [*Coleoptera*.]

Jordan, K. 4. Two new *Agaristidae*. Nov. Zool., Tring, 13, 1906, (161). [*Lepidoptera*.]

Jordan, K. 5. Notes to Plates iii and x. Nov. Zool., Tring, 13, 1906, (759-761, pls. iii and x). [*Lepidoptera*.]

Jordan, K. 6. *Anthribidae*. Biol. Centr.-Amer., London, Col. 4, pt. 6, (299-378, pls. x-xiv).

Jordan, Karl and Rothschild, Hon. N. Charles. 1. A revision of the *Sarcophyllidae*, a family of *Siphonaptera*. Liverpool, Thompson-Yates Lab. Rep., N. Ser., 7, 1906, (15-72, 4 pls.).

Jordan, K. and Rothschild, Hon. N. C. 2. Notes on the *Siphonaptera* from the Argentine, described by the late Professor Dr. Weyenbergh. Nov. Zool., Tring, 13, 1906, (170-177).

Jordan, Karl vide Rothschild, Hon. Walter.

Joukl, H. A. Eine neue Varietät der *Zygaena carniolica* Scop. Ent. Zs., Guben, 20, 1906, (18-20). [*Lepidoptera*.]

Joutel, Louis H. vide Davis, W. T.

Joy, Norman H. 1. The *Colcoptera* of Lundy island. Ent. Mag., London, 42, 1906, (1-5).

Joy, N. H. 2. *Euplectus tomlini*, sp. n.: a beetle new to Britain. Ent. Mag., London, 42, 1906, (99). [*Coleoptera*.]

Joy, N. H. 3. *Coleoptera* occurring in the nests of mammals and birds. Ent. Mag., London, 42, 1906, (198-202, 237-243)).

Joy, N. H. 4. *Corticaria crenicollis*, Mannh., a new British beetle. Ent. Rec., London, 18, 1906, (276). [*Coleoptera*.]

Joy, N. H. and Tomlin, J. R. 1c B. *Cardiophorus erichsoni* Buyss. in Lundy island. Ent. Mag., London, 42, 1906, (156). [*Coleoptera*.]

Jungner, J. R. Die Zwergzikade (*Cicadula sexnotata* Fall.) und ihre Bekämpfung. Berlin, Arb. D. Landw.-Ges., Heft 115, 1906, (1-50, 1 Taf.). [*Homoptera*.]

Junod, Henri A. Dimorphisme de deux espèces de *Precis* africaines. [in Oberthür C.] Etudes Lep. comp. fasc. 2, 1906, (28-36). [*Lepidoptera*.]

Kammerer, Paul. Allerlei Fütterungsversuche. Tl 2: Werden grellfarbige Kerbtiere gefressen? Bl. Aquarienkunde, Magdeburg, 17, 1906, (187-189, 200-202).—Bemerkung dazu v. [Walther] Köhler, T.e., (211-212).

Karashima, Daisaku. Ine no Hari-ganemushi. [Wire worm injurious to wheat.] Konch. Sek., Gifu, 10, 1906, (273-275).

Karawaiew, W. Systematisch-Biologisches über drei Ameisen aus Buitenzorg. Zs. wiss. Insektenbiol., Husum, 2, 1906, (369-376). [*Hymenoptera*.]

Kaye, William James. 1. New species of Guiana and Jamaican butterflies. Entomologist, London, 39, 1906, (49-53), pl. ii. [*Lepidoptera*.]

Kaye, W. J. 2. Note on the dominant Müllerian group of butterflies from the Potaro district of British Guiana. London, Trans. Ent. Soc., 1906, (411-439, pls. xxiii-xxvii). [*Lepidoptera*.]

Kayser, B[ernhard]. Ueber Fliegenlarvenschädigung des Auges. [Nebst Berichtigung. Klin. Monatsbl. Augenheilk., Stuttgart, 43, 1905, (205-214, 391). [*Diptera*.]

Kearton frères. L'art de surprendre et de photographier les Oiseaux et les Insectes. Paris (Dumoulin), 1906, (1-268).

Kellogg, Vernon L. 1. Physiological regeneration in insects. Science, New York, N.Y., 23, 1906, (149-152).

Kellogg, V. L. 2. Is there determinate variation? Science, New York, N.Y., 24, 1906, (621-628). [*Coleoptera*.]

Kellogg, V. L. 3. A note on assortative mating. Science, New York, N.Y., 24, (665-666). [*Coleoptera*.]

Kellogg, V. L. 4. Variation in parthenogenetic insects. Science, New York, N.Y., 24, 1906, (659-699).

Kellogg, V. L[yman]. 5. *Mallophaga* from Argentina. New York, N.Y., J. Ent. Soc., 14, 1906, (45-49, pl. ii).

Kellogg, V. L. 6. A second collection of *Mallophaga* from birds of the Galapagos and Revillagigedo islands and neighboring waters. Philadelphia, Pa., Trans. Amer. Ent. Soc., 32, 1906, (315-324).

Kellogg, V. L. 7. A gigantic new biting bird-louse. Ent. News, Philadelphia, Pa., 17, 1906, (62-63). [*Mallophaga*.]

Kellogg, V. L. 8. Histogenesis in insect development, and cell specificity. Wood's Holl, Mass., Mar. Biol. Lab. Bull., 10, 1906, (120-121).

(Kellogg, V. L. 9. Regeneration in larval legs of silkworms. J. Exp. Zool., Baltimore, Md., **1**, 1904, (593-599).)

(Kellogg, V. L. 10. Influence of the primary reproductive organs on the secondary sexual characters. J. Exp. Zool., Baltimore, Md., **1**, 1904, (601-605). [4431-4411].)

(Kellog, V. L. and Bell, R. G. Notes on insect bionomics. J. Exp. Zool., Baltimore, Md., **1**, 1904, (357-367).)

Kempny, Pedro. Obit. *vide* Navás, Longinos.

Kennedy, J. C. *vide* Horrocks, W. H.

Kerremans, Ch. 1. *Buprestides* recueillis par M. von Bennigsen en Nouvelle Guinée et dans l'Archipel Bismarek. D. ent. Zs., Berlin, **1906**, (412-416). [*Coleoptera*.]

Kerremans, Ch. 2. Note sur la restitution à une des espèces de Linné du nom générique de *Buprestis*. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (174-177). [*Coleoptera*.]

Kerremans, Ch. 3. Monographie des *Buprestides*. 1. Livraisons 15-18, (433-531, pls. vii-x), and, 2. Livraisons 1-8 (1-256). Bruxelles, 1906. [*Coloptera*.]

Kerremans, Ch. 4. *Buprestides* recueillis par Mr. L. Fea dans l'Afrique occidentale. Genova, Ann. Museo Civ. st. nat., **42**, 1905-6, (406-411). [*Coleoptera*.]

Kerremans *vide* Germain.

Kershaw, J. C. Butterflies of Hongkong and south-east China, parts 1-3. Hongkong, 1906, (1-60, pls. i-vii). [to. [*Lepidoptera*.]

Kertész, K[álmán]. 1. Die *Dipteren*-Gattung *Eraza* Walk. Ann. Hist.-Nat. Mus. Nat. Hung., Budapest, **7**, 1906, (276-292).

Kertész, K. 2. Eine neue Gattung der *Heteroneuriden*. Ann. Hist.-Nat. Mus. Nat. Hung., Budapest, **4**, 1906, (320-322). [*Diptera*.]

Keynes, J. N. Butterflies in Switzerland in 1905. Ent. Rec., London, **18**, 1905, (174-178). [*Lepidoptera*.]

Keyser, Charles R. Strength of a beetle. Nature, London, **74**, 1906, (318). [*Coleoptera*.]

(x-9720 j)

Kieffer, J. J. 1. *Clothodaspis konowi* n. sp. ♂ (*Cynipide*). Zs. Hymenopter., Teschendorf, **6**, 1906, (114). [*Hymenoptera*.]

Kieffer, J. J. 2. Zwei neue *Dryinidae* aus Ost-Indien. Zs. Hymenopter., Teschendorf, **6**, 1906, 335-336). [*Hymenoptera*.]

Kieffer, J. J. 3. Description de nouveaux *Hyménoptères*. Bruxelles, Ann. Soc. Scient., **30**, 1906, Mém. (113-178).

Kieffer, J. J. 4. Nouveaux *Proctotrypides* exotiques conservés au Musée civique de Gènes. Genova, Ann. Museo Civ. st. nat., **42**, 1905-6, (9-39). [*Hymenoptera*.]

Kieffer, J. J. 5. Description d'un genre nouveau et de neuf espèces nouvelles de *Cynipides* exotiques. Marcellia, Avellino, **5**, 1906, (101-110). [*Hymenoptera*.]

Kieffer, J. J. 6. Description de nouveaux *Diptères Nématocères* d'Europe. Bruxelles, Ann. Soc. Scient., **30**, 1906, (311-348).

Kieffer, J. J. 7. Description d'un genre nouveau et de quelques espèces nouvelles de *Diptères* de l'Amérique du sud. Bruxelles, Ann. Soc. Scient., **30**, 1906, (349-358).

Kieffer, J. J. 8. *Diptera*, Fam. *Chironomidae* [in] Wytzman, Genera Insectorum, 42^{me} fascic., 1906, (1-78, pls. i-iv).

Kieffer, J. J. 9. Deux nouveaux représentants du genre *Rhabdophaga*. Marcellia, Avellino, **5**, 1906, (70-74). [*Diptera*.]

Kieffer, J. J. 10. Beschreibung neuer Proctotrupiden aus Nord- und Zentral-Amerika. Berliner ent. Zs., **50**, (1905), 1906, (237-290). [*Hymenoptera*.]

Kieffer, J. J. 11. Eine neue gallenerzeugende *Psyllide* aus Vorder-Indien. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (387-390). [*Homoptera*.]

Kieffer, J. J. 12. *Proctotrypides* [in] André, Spec. Hym. eur. fascic., 93-96, **10**, 1906, (289-551, pls. xiii-xxi), completing the Vol. [*Hymenoptera*.]

Kieffer, J. J. e Cecconi, G. Un nuovo *dittero* galligeno su foglie di *Mangifera indica*. Marcellia, Avellino, **5**, 1906, (135-136).

Kieffer, J. J. et Herbst, Pablo. Description de galles et d'insectes gallicoles du Chili. Bruxelles, Ann. Soc. Scient., **30**, 1906, Mém., (223-236, pl. i).

Kieffer, J. J. und Nielsen, I. C. Eine neue Weidengallmücke (*Rhabdophaga nielsenii*, n. sp.) mit Bemerkungen über die Gallen und die Lebensweise. Kjöbenhavn, Ent. Medd., Ser. 2, **3**, 1906, (1-4). [*Diptera*.]

Kieffer, J. J. und Thienemann, A. Ueber die Chironomidengattung *Othocladius*. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (143-156). [*Diptera*.]

King, Harold H. A blood-sucking *Hemipteron*. J. Trop. Med., London, **9**, 1906, (373).

Kinoshita, K. Ueber die Verbreitung der Anophelen auf Formosa und deren Beziehungen zu den Malariakrankheiten. Arch. Schiffshyg., Leipzig, **10**, 1906, (621-645, 676-684, 708-726, 741-754). 1 Taf. [*Diptera*.]

Kirby, W. F. A synonymic catalogue of Orthoptera. Vol. ii. Orthoptera Saltatoria. Part i (*Achetidae* et *Phasgonuridae*). London, 1906. British Museum, (viii + 562).

Kirk, T. W. The Gum-tree scale. New Zealand, Dep. Agric. Div. Biol. Hort. Bull., **13**, (1-4, 2 pls.). [*Coccidae*.]

Kirkaldy, G. W. 1. A guide to the study of British Waterbugs (aquatic *Hemiptera* or *Rhynchotha*). [Continued from 1905.] Entomologist, London, **39**, 1906 (60-64, 79-83, 151-157).

Kirkaldy, G. W. 2. Bibliographical and nomenclatorial notes on the *Hemiptera*, No. 6. Entomologist, London, **39**, 1906, (247-249).

Kirkaldy, G. W. 3. Catalogue of the genera of the Hemipterous family *Aphidae*, with their typical species, together with a list of the species described as new from 1885 to 1905. [Continued from Vol. xxxvii.] Canad. Entomol., **38**, 1906, (9-18), and Supplement (135), second supplement (202).

Kirkaldy, G. W. 4. Notes on the classification and nomenclature of the Hemipterous superfamily *Miroidea*. Canad. Entomol., **38**, 1906, (369-376).

Kirkaldy, G. W. 5. On the nomenclature of the genera of the *Hemiptera*. (Part i, 1758-1843, concluded). Entomologist, London, **39**, 1906, (253-257).

Kirkaldy, G. W. 6. Leaf-hoppers and their natural enemies. (Pt. 9, Leaf-hoppers - *Hemiptera*.) Honolulu, Exp. Sta. Hawaiian Sug. Pl. Ass., Div. Ent., Bull., No. **1**, 1906, (17 + 269-479, pls. xxi-xxxii).

Kirkaldy, G. W. 7. List of the genera of the Pagiopodous *Hemiptera-Heteroptera*, with their type species, from 1758 to 1904 (and also of the aquatic and semi-aquatic *Trochalopoda*). Philadelphia, Pa., Trans. Amer. Ent. Soc., **32**, 1906, (117-156).

Kirkaldy, G. W. 8. An historical note on the parasitism of certain *Homoptera*. Entomologist, London, **39**, 1906, (14). [*Hymenoptera*.]

Kirkaldy, G. W. 9. Two new *Homoptera* from Africa, and synonymical notes. Canad. Entomol., **38**, 1906, (154, 155).

Kirkaldy, G. W. 10. Index to Leaf-hoppers and their natural enemies. Honolulu, Exp. Sta. Hawaiian Sug. Plant. Ass., Div. Ent. Bull., No. **1**, 1906, (27 + 503-508).

Kirkaldy, G. W. 11. Current notes: 1905-6. [Literature]. Entomologist, London, **39**, 1906, (198-203, 283-287).

Kirkaldy, G. W. 12. *Hemiptera* of Index faunae Novae Zelandiae. Wellington, Trans. N. Zeal. Inst., **38**, 1906, (61-62).

(**Kirkaldy, G. W. 13.** Quelques Tingides nouveaux ou peu connus. Paris, Bul. soc. ent., **1905**, (216-217). [4031 1027 hf].)

(**Kirkaldy, G. W. 14.** Five new species of *Micronecta* Kirkaldy. Ent. News, Philadelphia, Pa., **16**, 1905, (260-263). [4031].)

(**Kirkaldy, G. W. 15.** Neue und wenig bekannte Hemiptera. Entomol. Ztg. Wien, **24**, 1905, (266-268). [4031].)

Kitchin, V. P. Variation in *Melitaea aurinia*. Entomologist, London, **39**, 1906, (31), pl. i. [*Lepidoptera*.]

Klages, Edward A. 1. On the Syntomid moths of southern Venezuela collected in 1898-1900. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **29**, 1906, No. 1434 (531-552). [*Lepidoptera*.]

Klages, E. A. 2. On the *Scarabaeidae* of Southern Venezuela. A wonderful new form of the group *Copres*. Crafton Penn., 1906, 8vo. (on page unnumbered). [*Coleoptera*.]

Klapálek, F. 1. Algunos Mirmeleónidos y Ascaláfidos de Persia y Siria recogidos por el Sr. Martinez de la Escalera. [Some *Myrmeleonidae* and *Ascalaphidae* from Persia and Syria collected by Martinez de la Escalera.] Madrid, Bol. Soc. esp. Hist. nat., **6**, 1906, (94, 95). [*Neuroptera*.]

Klapálek, F. 2. Dos *Neurópteros* de la Guinea española. [Two *Neuroptera* of Spanish Guinea.] Madrid, Mem. Soc. esp. Hist. Nat., **1**, 1906, (323-326, pl. ix).

Klapálek, F. 3. Ueber die europäischen Arten der Fam. *Dictyopterygidae*. Prag. Bull. Ac. Sci. Franç. Jos., **9**, 2, 1904, (6-15). [*Perlidae*.]

Klapálek, F. 4. Příspěvek ke znalosti fauny *Neuropteroid* Charvatska, Slavonska i zemí sousedních. [Contribution to a knowledge of the *Neuroptera* of Croatia, Slavonia and neighbouring regions.] Prag. Rozpr. České Ak. Frant. Jos., **15**, 1906, No. 16, (1-8).

Klemensiewicz, Stanislaus. *Lepidopterologische* Beiträge aus Galizien. Wien, Verh. ZoolBot. Ges., **1906**, (160-173).

Klöcker, Alb. 1. Tillæg til Fortegnelsen over de i Danmark levende *Macrolepidoptera*. [A supplement to the catalogue of Danish *Macrolepidoptera*.] Kjöbenhavn, Ent. Medd., Ser. 2, **3**, 1906, (52-56).

Klöcker, A. 2. Parthenogenese hos *Lepidoptera*. [Parthenogenesis in *Fumea intermediella* and *Arctia caja*.] Kjöbenhavn, Ent. Medd., Ser. 2, **3**, 1906, (59-60).

Klunzinger, C. B. Ueber einen Schlammkäfer (*Heterocerus*) und seine Entwicklung in einem Puppengehäuse. Verh. D. zool. Ges., Leipzig, **16**, 1906, 218-222). [*Coleoptera*.]

Knab, Frederick. 1. Notes on *Deinocerites cancer* Theobald. Psyche, Cambridge, Mass., **13**, 1906, (95-97, pl. xvi). [*Diptera*.]

Knab, F. 2. The swarming of *Culex pipiens*. Psyche, Cambridge, Mass., **13**, 1906, (123-133). [*Diptera*.]

(s-9720 j)

Knab, F. 3. Goeldi's "Os mosquitos no Pará." [Goeldi's "The mosquitoes of Pará."] New York, N.Y., J. Ent. Soc., **14**, 1906, (57-76). [*Diptera*.]

Knab, F. 4. The yellow-fever mosquito. Science, New York, N.Y., N. Ser., **23**, 1906, (270-271).

Knab, Frederick vide Dyar, H. G.

Knauer, Friedrich. Die Ameisen (Aus Natur u. Geisteswelt, Bd 94.) Leipzig (B. G. Teubner), 1906, (iv + 156). 18 cm. Geb. 1,25 M. [*Hymenoptera*.]

Knaus, W. Collecting notes on *Coleoptera*. Canad. Entomol., **38**, 1906, (145-148).

Knoche, E. Mein Schlusswort zu der Polemik über die Generationsfrage der Borkenkäfer. Natw. Zs. Landw., Stuttgart, **4**, 1906, (265-273). [*Coleoptera*.]

Koča, Gjuro. Enumeratio *Coleopterorum* circa Vinkovce inventorum. Glasnik Naravosl. druzst., Zagreb, **17**, 1906, (119-212).

Koch, Rudolf. Versuche über den Einfluss der Leinwandsäcke bei künstlichen Borkenkäferzuchten. Natw. Zs. Landw., Stuttgart, **4**, 1906, (158-160). [*Coleoptera*.]

Koenig, Eugen. Dritter Beitrag zur *Coleopteren*-Fauna des Kaukasus. Entomol. Ztg., Wien, **25**, 1906, (23-27).

Kohl, Franz Friedr. 1. *Hymenopteren* [in Penther and Zederbauer, Reise zum Erdschias-Dagh]. Wien, Ann. Nat. Hist. Hofmus., **20**, 1905, (220-246, pls. ix, x). [Includes new spp. of *Halictus* by Vachal.]

Kohl, F. F. 2. *Hymenopteren*. Zoologische Ergebnisse der Expedition der Kaiserlichen Akademie der Wissenschaften nach Südarabien und Sokotra im Jahre 1898-1899. Wien, 1906, (1-133, pls. i-x). 4to. [Extract from Denk. Ak. Wien, LXXI, (169-301), not yet received.]

Kohl, Hermann Jos. Zur Biologie der Spinnenden Ameisen. Natur u. Offenb., Münster, **52**, 1906, (166-169). [*Hymenoptera*.]

Köhler, Walther vide Kammerer, Paul.

Kokujev, Nikita. 1. [Sur quelques espèces de *Braconides* (*Hymenoptera*, *Braconidae*) des collections du Musée zoologique de l'Académie impériale des

Sciences.] St. Peterburg, Ann. Mus. zool. Ac. Sci., **10**, 1905, [1907], (244-250).

[Kokujev, Nikita.] **2.** Кокужеѣ, Никита. О русскихъ представителяхъ подсемейства. [Les représentants de la sous-famille Alysonini Dalla Torre (*Hymenoptera*, *Crabronidae*) dans la faune de la Russie.] St. Peterburg, Hor. Soc. Ent. Russ., **38**, 1906, (209-219).

Kolbe, H. **1.** Die Dynastiden-Gattung *Daemonoplus*. Stettiner ent. Ztg., **67**, 1906, (265-275). [*Hymenoptera*.]

Kolbe, H. **2.** Zur Kenntnis der Neuropterenfauna Madagaskars. Insektenbörse, Leipzig, **23**, 1906, (138-140).

Kolbe, H. **3.** Ueber ein angebliches Vorkommen der Pieride *Euchloë belia* Cr. in Deutschland. Insektenbörse, Leipzig, **23**, 1906, (167-168). [*Lepidoptera*.]

Kolbe, H. **4.** Ueber die Arten der amerikanischen *Dynastidengattung* *Strategus*. Berliner ent. Zs., **51**, 1906, (1-32, 1 Taf.). [*Coleoptera*.]

Kolbe, H. **5.** Zwei schädliche Käfer auf Orchideen. Gartenflora, Berlin, **55**, 1906, (2-6).

Kolbe, H. [J.]. **6.** Aus dem Leben der Dungkäfer (coprophagen *Lamellicornier*). Ans d. Natur, Stuttgart, **1**, 1906, (641-648, 678-685, 722-729). [*Coleoptera*.]

[Kondratenko, G. L.] Кондратенко Г. Л. Изъ наблюдений надъ пчелами. [Beobachtungen an Bienen.] Russ. pčelovod. listok, St. Peterburg, **21**, 1906, (17-18). [*Hymenoptera*.]

Konow, Fr[iedr.] W[ilh.]. **1.** Systematische Zusammenstellung der bisher bekannt gewordenen *Chalastogastra*. [Forts.] Zs. Hymenopter., Tschendorf, **5**, 1905, (249-264, 313-328, 377-392); **6**, 1906, (193-208, 257-272, 401-416). [*Hymenoptera*.]

Konow, F. W. **2.** Ueber einige *Tenthrediniden* der alten Welt. Zs. Hymenopter., Tschendorf, **6**, 1906, (122-127). [*Hymenoptera*.]

Konow, F. W. **3.** Neue mittel- und südamerikanische *Argini*. Zs. Hymenopter., Tschendorf, **6**, 1906, (177-192, 241-253). [*Hymenoptera*.]

Konow, F. W. **5.** Einige neue paläarktische und orientalische *Tenthrediniden*. Zs. Hymenopter., Tschendorf, **6**, 1906, (254-256, 329-331). [*Hymenoptera*.]

Konow, F. W. **6.** Einige synonymische Bemerkungen über Blattwespen. Zs. Hymenopter., Tschendorf, **6**, 1906, (321-328, 386-388). [*Hymenoptera*.]

Konow, F. W. **7.** Neue südamerikanische *Lophyrini*. Zs. Hymenopter., Tschendorf, **6**, 1906, (337-347, 368-373). [*Hymenoptera*.]

Konow, F. W. **8.** Ueber die Larve von *Rhadinoceara nodicornis* Knw. Zs. Hymenopter., Tschendorf, **6**, 1906, (347-348). [*Hymenoptera*.]

Konow, F. W. **9.** Berichtigung [zu Wytsman. Gen. Ins. Tenthred.]. Zs. Hymenopter., Tschendorf, **6**, 1906, (388). [*Hymenoptera*.]

[Koorders, S. H. and Zehntner, L. Over eenige Ziekten en Plagen van *Ficus elastica* Roxb. [Sur quelques maladies et fléaux du *Ficus elastica* Roxb.] De Cultuurgids, **7**, 1905 (439-472, pls. i-iv). Reprinted in Salatiga, Bull. Alg. Proefstat., **3**, 1905, (1-34, pls. i-iv).]

Korlević, A. Ose šiskarice i njihove siške. [Die Gallwespen und ihre Gallen.] Glasnik naravosl. druzt., Zagreb, **14**, 1902, (91-121, 1 pl.). [*Hymenoptera*.]

Korotnew, N. von. **1.** Zur Frage der Vervollkommnung der Technik des Fanges mit dem Kätscher. Zs. wiss. Insektenbiol., Husum, 1906, (206-209).

Korotnew, N. v. **2.** Automatische Fangapparate mit Köder. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (246-251).

Korotnew, N. [v.]. **3.** Ueber Verpackung und Konservierung unpräparierter Käfer und anderer Insekten. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (325-328).

Korschilgen, J. P. und Selleger, E. L. Die ältesten Papiermacher und ihre Rohstoffe. [Wespennester.] Papier-Fabrikant, Berlin, **4**, 1906, (2543-2545). [*Hymenoptera*.]

[Kosminskij, P.] Косминскій, П. Списокъ Macrolepidoptera южнаго берега Крыма, не помѣщенныхъ въ Каталогъ Меліоранскаго (Horae Soc.

Ent. Russ. XXXI, 1897). [Verzeichnis der *Macrolepidopteren* des Südufers der Krim, welche in dem Katalog von Melioransky (Horae Soc. Ent. Russ. XXXI, 1897) nicht aufgenommen worden sind.] Varšava, Trd. Obšč. jest, **15**, 1904-[5], (1-4).

Kotake, Hiroshi. Hachikwai no Dappi wo kasaneshi Kuchibasuzume ni tsuite. [On the number of moultings of *Marumba speerchius* Mén.] Konch. Sek., Gifu, **10**, 1906, (320-322). [*Lepidoptera*.]

Kotinsky, Jacob. History of economic entomology in Hawaii. Washington, D.C., Bull., U. S. Dept. Agric., Bur. Ent., No. **60**, 1906, (58-67).

[**Koževnikov**, G.] Кожевниковъ, Г. Современное состояние вопроса о видахъ и породахъ пчелъ. [Der gegenwärtige Stand der Frage über die Arten und Rassen der Bienen.] Věstn. Obšč. pčelovod., St. Petersburg, **13**, 1906, (99-106). [*Hymenoptera*.]

Krähe, Carl. 1. Zur Zucht von *Lemonia dumi* L. Ent. Zs., Guben, **19**, 1906, (206-207). [*Lepidoptera*.]

Krähe, K. 2. Ein praktischer Raupen-Sammelkasten. Ent. Zs., Guben, **20**, 1906, (109-110).

Kramer, H. 1. *Sarcophaga haematodes* Mg. Schin. Zs. Hymenopter., Teschendorf, **6**, 1906, (63-64). [*Diptera*.]

Kramer, H. 2. Zur Gattung *Sarcophaga*. Zs. Hymenopter., Teschendorf, **6**, 1906, (216-217). [*Diptera*.]

Krauss, Hermann. Zwei neue Höhlenkäfer aus dem mitteleuropäischen Faunengebiet. Entomol. Ztg., Wien, **25**, 1906, (257-260). [*Coleoptera*.]

Krausse, Anton, Hermann. Ueber die Systematik der Insekten. Insektenbörse, Leipzig, **23**, 1906, (115-116, 120).

Krausse-Heldrungen, A. H. Eine neue Gryllacridenspezies. Insektenbörse, Leipzig, **23**, 1906, (32). [*Orthoptera*.]

Kreidl, Alois und **Regen**, Johann. Physiologische Untersuchungen über Tierstimmen. I Mitteilung. Stridulation von *Gryllus campestris*. Wien, SitzBer. Ak. Wiss., **114**, Abt. iii, 1905, (57-81, 1 pl.). [*Orthoptera*.]

Krieger, R. Ueber die *Ichneumoniden*-gattung *Theronia* Holmg. Zs. Hy-

menopter., Teschendorf, **6**, 1906, (231-240, 316-320). [*Hymenoptera*.]

Krohn, vide Pettit.

Kröning, [Wilhelm]. Die *Gastrus*-larvenkrankheit der Pferde in ihrer Bedeutung für die Fohlenaufzucht, besonders veredelter Zuchten. Zs. Veterinärk., Berlin, **18**, 1906, (202-211). [*Diptera*.]

(**Krüger**, Geo. C. 1. Ein Beitrag zur *Lepidopteren*-Fauna Siciliens. Naturalista sicil., Palermo, **18**, 1905, (49-51).)

Krüger, G. C. 2. Zweiter Beitrag zur *Lepidopteren*-Fauna Siciliens. Naturalista sicil., Palermo, **18**, 1906, (121-124).

[**Krulikowskij**, L.] Круликовский, Л. Записка о сборѣ чешуекрылыхъ лѣтомъ 1905 года въ Уржумскомъ уездѣ, Вятской губ. [Notice sur la chasse aux *Lépidoptères* durant l'été 1905 dans le district d'Ourjoum, gouv. de Viatka.] Rev. russ. ent., St. Petersburg, **6**, 1906, (60-63).

(**Künckel d'Herculais**, J. 1. Les *Lépidoptères* Limacodides et leurs *Diptères* parasites, Bombylides du genre *Systoropus*. Signification morphologique des pointes frontales de la chrysalide de l'hôte et de la nymphe du parasite. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (872-873). [4619-4631].)

Künckel d'Herculais, J. 2. Rapport des Insectes avec les fleurs des *Asclépiadées* et en particulier avec celle de l'*Araujia sericofera* Brotero. Paris, Bull. Ass. franç. avanc. sci., **1905**, (342-343).

Küster, E. Ueber zwei organoide Gallen: die Wiederholung blattrandartiger Strukturen auf Blattspreiten. Marcellia, Avellino, **5**, 1906, (44-48).

Küster, H. C. und **Kraatz**, G. 1. Die Käfer Europas. Nach der Natur beschrieben. Fortgesetzt v. J. **Schilsky**, Heft 42. Nürnberg, 1906, (vi + 372). [*Coleoptera*.]

Küster, H. C. und **Kraatz**, G. 2. Id. Heft 43, 1906, (viii + cxix + 30). [*Coleoptera*.]

Kuhlgatz, Th. 1. *Rhynchota*. [Jahresbericht 1901.] Arch. Natg., Berlin, **68**, Bd 2, H. 2, 2. Hälfte, 1902, [1906],

(1041-1202), = D. ent. Zs., Berlin, 1902, H. 3, 2. Hälfte, [1906], (1041-1202).

Kuhlgatz, T. 2. Ueber die *Capside Deimotostages contumax* nov. gen. nov. spec., die westafrikanische Kakao-, Rindenwanze. Zool. Anz., Leipzig, 30, 1906, (28-20). [*Hemiptera*.]

Kuhnt, Paul. 1. Als Käfersammler im Mai am Garda-See. Ent. Jahrb. Leipzig, 15, 1906, (125-135). [*Coleoptera*.]

Kuhnt, P. 2. Ueber die Farben der Käfer. Ent. Jahrb., Leipzig, 16, 1907, (150-159). [*Coleoptera*.]

Kulagin, N[ikolaj]. Die Länge des Bienenrüssels. Zool. Anz., Leipzig, 29, 1906, (711-716); 29, 1906, (462). [*Hymenoptera*.]

Kulczycki, Włodzimierz vide Nusbaum, Józef.

Kuntze, Albert. Tabelle zum Bestimmen der Arten der Gattung *Empis* L. Zs. Hymenopter., Teschendorf, 6, 1906, (209-216, 297-304, incomplete). [*Diptera*.]

Kunze, R. E. 1. Descriptions of two lepidopterous larvae. New York, N.Y., J. Ent. Soc., 14, 1906, (131-134).

Kunze, R. E. 2. Stemmed cocoons of *Telea polyphemus*. Ent. News, Philadelphia, Pa., 17, 1906, (177-179). [*Lepidoptera*.]

Kusnezov, N. J. 1. Zur Frage über die Bedeutung der Färbung der Hinterflügel der *Catocala*-Arten. Biol. Centralbl., Leipzig, 26, 1906, (116-124). [*Lepidoptera*.]

Kusnezov, N. J. 2. Zur Frage über die Licht-Experimente mit *Lepidopteren*. Zs. wiss. Insektenbiol., Husum, 2, 1906, (43, 44).

[**Kusnezov, N. J. 3.** Кузнецовъ, Н. Я. Обзоръ семейства *Sphingidae* палеарктической и отчасти палеанарктической (китайско-гималайской) фауны. [Revue des représentants de la famille des *Sphingidae* dans les faunes paléarctique et en partie paléanarctique (émodo-sérique).] St. Petersburg, Hor. Soc. Ent. Ross., 37, 1906, (293-343). [*Lepidoptera*.]

Kusnezov, N. J. vide etiam Semenov, A.

Kuwana, Inokichi. 1. Gaichū kujo ni taisuru Kiseichū no Kōryoku teido.

[Influence of parasites against injurious insects.] Tokyo, Nip. Nokw. Hō, 303 1906, (5-9).

Kuwana, I. 2. Ringo no Kuritengiu ni tsuite. [On *Chreonoma fortunei*, Thoms. on apple trees]. Konch. Sek., Gifu, 10, 1906, (12-15). [*Coleoptera*.]

Lakatos, Dezső. Eltérő színezetű lepkék. [Melanotische Falter.] Rovart. L., Budapest, 13, 1906, (58-60). [*Lepidoptera*.]

Laloy, L. 1. Les Eumènes. Naturaliste, Paris, ser. 2, 28, 1906, (153, 151). [*Hymenoptera*.]

Laloy, L. 2. La lutte contre les insectes nuisibles. Naturaliste, Paris, 1906, 28, (168, 169).

Laloy, L. 3. Notes sur les mœurs des abeilles. La distribution du travail. Naturaliste, Paris, 28, 1906, (258, 259).

Lambertie. 1. Cochenille du *Phormium tenax* Forst (*Dactylopius longispinus* Targ.). Bordeaux, Act. soc. lim., 60, 1906, (proc. verb., lxxxix). [*Coccidae*.]

Lambertie. 2. Notules entomologiques et description d'une nouvelle espèce. Bordeaux, Actes Soc. lim., 61, 1906, (23-29). [*Hemiptera*.]

Lambillion, L. J. L. 1. Histoire naturelle de *Hypoplectis adpersaria* H. C. Bruxelles, Mém. Soc. ent., Belgique, 12, 1906, (99). [*Lepidoptera*.]

Lambillion, L. J. 2. Histoire naturelle et mœurs de tous les papillons de Belgique. Namur, Rev. Soc. ent., 1906, (5-6, 23-24, 27-31, 38-39).

Lambrecht, Kálmán. A félelem szerepe a rovarvilágban. [Die Bedeutung des Schreckes bei den Insekten.] Rovart. L., Budapest, 13, 1906, (185-186).

Lameere, Aug. 1. Notice sur Alfred Preudhomme de Borre. Bruxelles, Ann. Soc. ent. Belgique, 50, (7-11, portr.).

Lameere, A. 2. Notes pour la classification des *Diptères*. Bruxelles, Mém. Soc. ent. Belgique, 12, 1906, (105-140).

Lampa, Sven. 1. Rönnbärsmalen (*Argyresthia conjugella* Zell.). Entomol. Tidskr., Stockholm, 27, 1906, (1-16, pl. i). [*Lepidoptera*.]

Lampa, Sven. 2. Berättelse till kungl. Landtbruksstyrelsen angående

verksamheten vid Statens entomologiska Anstalt under år 1905. [Report of the Ministry of Agriculture on the work of the State Entomological Institute for 1905.] Entomol. Tidskr., Stockholm, **27**, 1906, (17-64).

Lampa, Sven. **3.** Om så kallade mordlarver. [On the so-called murderous larvae.] Entomol. Tidskr., Stockholm, **27**, 1906, (68).

Lampert, Kurt. **1.** Verhalten niederer Tiere gegen Formalindämpfe. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (12-13).

Lampert, K. **2.** Grossschmetterlinge u. Raupen Mitteleuropas, mit besonderer Berücksichtigung der biologischen Verhältnisse. Esslingen und München 4to. [in parts], Lief., 1-12, (1-104) many pls. irregularly issued. [Lepidoptera.]

Landrock, Karl. Verzeichnis der im Jahre 1905 in der Umgebung von Brünn erbeuteten *Dipteren* (*Brachycera*). Ent. Jahrb., Leipzig, **16**, 1907, (170-179).

Lange, C. F. Entomologisches aus dem sächsischen Erzgebirge. Ent. Zs., Guben, **19**, 1906, (166-167, 177-178).

Langhoffer, A. Komarci i malarija. [Die Gelsen und die Malaria.] Glasnik naravosl. druzt., Zagreb, **15**, 1904, (76-91). [Diptera.]

Lankester, E. Ray [and others]. The history of the collections contained in the natural history departments of the British Museum. Vol. II. Separate historical accounts of the several collections included in the department of Zoology. London, 1906, (1-782). 8vo.

Lannoy, F. de. Notes sur les mœurs du *Lasius niger*. Bruxelles, Ann. Soc. ent. Belgique, **50**, (43-46). [Hymenoptera.]

Lapouge, G. de. **1.** Description des larves de *Carabus* et de *Calosoma*. Rennes, Bul. Soc. Sci. med. **14**, 1905, (273-293), and II, op. cit., **15**, 1906, (70-91). [Coleoptera.]

Lapouge, G. de. **2.** Description des larves de *Carabus* et de *Calosoma*. Trav. Univ. Rennes, **4**, 1905, (325-345). [Reprint of part of preceding.] [Coleoptera.]

Lapouge, G. de. **3.** Collections recueillies par M. Labbé au cours de sa mission en Sibérie, îles Sakhaline et

région du Lac Baikal, en 1902, et données au Muséum d'histoire naturelle de Paris. Coléoptères du genre *Carabus*. Bul. Muséum, Paris, **1906**, (382-381).

Lapouge, G. de. **4.** Méthodes d'élevage des larves de *Carabes*. Trav. Univ. Rennes, **4**, 1905, (5-19). [Coleoptera.]

Lapouge, G. de. **5.** Tableaux de détermination des formes du genre *Carabus*. Echauge, Moulins, **22**, 1906, (5-6, 13-14). [Coleoptera.]

Lathy, Percy I. **1.** On three new forms of butterfly of the genus *Heliconius*. London, Proc. Zool. Soc., **1906**, (152-3, pl. xxxiv). [Lepidoptera.]

Lathy, P. I. **2.** Two new species of *Pronophila* from Ecuador. Entomologist, London, **39**, 1906, (77). [Lepidoptera.]

Lathy, P. L. **3.** A new species of *Charaxes* from Rhodesia. Entomologist, London, **39**, 1906, (125). [Lepidoptera.]

Lathy, P. L. **4.** A contribution towards the knowledge of African *Rhopalocera*. London, Trans. Ent. Soc., **1906**, (1-10, pls. i, ii).

Latter, Oswald H. How do inquiline bees find the nest of their host? Nature, London, **74**, 1906, (200). [Hymenoptera.]

Laube, Adolar. Die Zucht von *Attacus orizaba*. Insektenbörse, Leipzig, **23**, 1906, (164). [Lepidoptera.]

Laveran, A. Contribution à l'étude de la répartition des mouches tsé-tsé dans l'Ouest africain français et dans l'Etat indépendant du Congo. Paris, C.-R. Acad. sci., **141**, 1905, (929-932). [Diptera.]

Laveran vide Bouvier.

Lea, Arthur M. **1.** Notes on the genus *Leptops* with descriptions of new species. Bruxelles, Ann. Soc. ent. Belgique, **50**, (313-354). [Coleoptera.]

Lea, A. M. **2.** Descriptions of new species of Australian Coleoptera. Part viii. Sydney, N.S.W., Proc. Linn. Soc., **31**, 1906, (195-227, pl. xviii).

Lea, A. M. **3.** Descriptions of new species of *Lomaptera* (Coleoptera: Scarabaeidae, subfamily Cetonides). Sydney, N.S.W., Proc. Linn. Soc. **31**, 1906, (561-563).

Lea, A. M. **4.** Descriptions of Australian *Curculionidae*, with notes on

previously described species. Adelaide, S. Aust. Trans. R. Soc., **30**, 1906, (71-103). [*Coleoptera*.]

(Lea, A. M. **5**. Revision of the Australian *Cureulionidae* belonging to the subfamily *Cryptorhynchides* vii. Sydney, N.S.W., Proc. Linn. Soc., **30**, 1905, (235-258). [4827 ie 4831].)

[Lebedev, A.] Лебедевъ, А. Материалы для фауны жуковъ (*Coleoptera*) Казанской губернии. [Matériaux pour servir à la faune des Coléoptères du gouvernement de Kazan.] St. Petersburg, Hor. Soc. Ent. Ross., **37**, 1906, (352-438). [4827 db].

Lécaillon, A. **1**. Sur quelques points de l'histoire naturelle des *Tabanides*, en particulier des *Tabanus quatuornotatus* Meig. Paris, C.-R. soc. biol., **60**, 1906, (459-460). [*Diptera*.]

Lécaillon, A. **2**. Sur l'organe de Graber de la larve de *Tabanus quatuornotatus* Meig. C.-R. Ass. anat. (7^e session), (Genève), **1905**, Nancy, 1906, (130-131, av. fig.). [*Diptera*.]

Lécaillon, A. **3**. Sur la structure de la couche chitineuse tégumentaire et sur les insertions musculaires de la larve de *Tabanus quatuornotatus* Meigen. C.-R. Ass. anat., (8^e session), (Bordeaux), **1906**, Nancy, 1906, (68-70). [*Diptera*.]

Lécaillon, A. **4**. Deuxième Note sur l'organe de Graber. C.-R. Ass. anat., (8^e session), (Bordeaux), **1906**, Nancy, 1906, (65-66). [*Diptera*.]

(Lécaillon, A. **5**. Sur un purçon (*Aphis papaveris* Fabr.) ennemi de la Betterave. Paris, Bul. soc. ent., **1905**, (258-260). [4031 4019].)

Le Comte, G. **1**. Sur *Cetonia (Potosia) affinis* et ses variétés. Paris, Bul. soc. ent., **1906**, (247-249). [*Coleoptera*.]

Le Comte, G. **2**. Tableaux de détermination des Lamellicornes de France. Nîmes, Bul. soc. étud. sci. nat., **33**, 1906, (136-141). [*Coleoptera*.]

(Le Comte, G. **3**. Description d'une *Cetonia* nouvelle d'Europe. Paris, Bul. soc. ent., **1905**, (274-275). [4831].)

(Le Comte, G. **4**. Tableaux de détermination des Cétonides de France. Nîmes, Bul. soc. étud. sci. nat., **32**, 1905, (76-85). [4827 df 4831].)

(Lefèvre, Edouard. Coléoptères. Mission Pavie, **3**, 1904, (146-157).)

Lefroy, H. Maxwell. **1**. The Bombay locust (*Acridium succinctum* Linn.), a report on the investigations of 1903-1904. Mem. Dep. Agric. India, Calcutta. Entomology, **1**, 1906, (1-109, 13 plates). [*Orthoptera*.]

Lefroy, H. Maxwell. **2**. Indian Insect Pests. Calcutta, 1906, (113, 119, 212-220, 225-227).

Lefroy, H. Maxwell. **3**. India insect pests. Calcutta, 1906, (vii + 318, with 346 figs).

Lefroy, H. Maxwell. **4**. Report of the Entomologist to the government of India. Rep. Imp. Dept. Agric., Calcutta, 1904-05, (89-98).

Lefroy, H. Maxwell. **5**. The Insect pests of cotton in India. Agric. Res. Inst. Pusa, India, Agric. J., **1**, 1906, (49-61, pls. vi-ix).

Lefroy, H. Maxwell. **6**. Mothborer in Sugarcane, Maize and Sorghum in Western India. Agric. Res. Inst. Pusa, India, Agric. J., **1**, 1906, (97-114, pls. x, xi). [*Lepidoptera*.]

Lefroy, H. Maxwell. **7**. Hairy Caterpillar pests of crops. Agric. Res. Inst. Pusa, India, Agric. J., **1**, 1906, (187-191, pl. xv). [*Lepidoptera*.]

Lefroy, H. Maxwell. **8**. The Caterpillar Pest of indigo in Behar. Agric. Res. Inst., Pusa, India, Agric. J., **1**, 1906, (338-350, pl. xxiii). [*Lepidoptera*.]

Leigh, G. F. Notes on *Euridia waktbergi*, Wallgr., and *E. mima*, Trim. London, Proc. Ent. Soc., **1906**, (liii-lvii) [*Lepidoptera*.]

Leisewitz, Wilhelm. Ueber chitinöse Fortbewegungs-Apparate einiger (insbesondere füssloser) Insektenlarven. Diss. München (E. Reinhardt), 1906, (iv + 113). 23 cm.

Lenticchia, Attilio. Sulla forma, composizione e struttura del filo serico in rapporto alla formazione dei fiocchetti. Milano, Rend. Ist. lomb., Ser. 2, **36**, 1903, (811-823).

Leonardi, Gustavo. **1**. Diagnosi di Cocciniglie nuove. Redia, Firenze, **3**, 1906, (1-7). [*Coccidae*.]

Leonardi, G. **2**. Generi e specie di *Diaspiti*. Saggio di sistematica delle *Fiorinae*. Redia, Firenze, **3**, 1906, (46-65). [*Coccidae*.]

Leonardi, G. 3. Due nuove specie di Cocciniglie. Portici, Ann. Scuola sup. Agric., **6**, 1906, (1-5). [*Coccidae*.]

Leonardi, G. 4. Generi e specie di *Diaspiti*. Saggio di sistematica delle *Leucaspides*. Portici, Ann. Scuola sup. Agric., **6**, 1906, (1-29, sep. pag.). [*Coccidae*.]

Leoni, Giuseppe. 1. Specie e varietà nuove o poco cognite di Coleotteri italiani. Riv. Coleotter. ital., Camerino, **4**, 1906, (62-64, 108-110). [*Coleoptera*.]

Leoni, G. 2. I *Chilotomini* italiani. Riv. Coleotter. ital., Camerino, **4**, 1906, (145-148). [*Coleoptera*.]

Leoni, G. 3. I *Cebrio* italiani. Riv. Coleotter. ital., Camerino, **4**, 1906, (181-220, 1 tav.). [*Coleoptera*.]

Leoni, G. 4. A proposito dei *Cebrio*. Riv. Coleotter. ital., Camerino, **4**, 1906, (268-269). [*Coleoptera*.]

Leoni, G. 5. L'*Amara equestris* Duft. e l'*Amara sicula* Dej. Naturalista sicil., Palermo, **18**, N. 9-10, 1906, (195-196). [*Coleoptera*.]

Lesne, Pierre. 1. Note sur une espèce nouvelle de *Coléoptère* bostrychide recueillie par M. E. R. Wagner dans le Chaco argentin. Bul. Muséum, Paris, **1906**, (12-14).

Lesne, P. 2. *Coléoptères* recueillis en Patagonie par la mission antarctique du Dr. J. Charcot. Bul. Muséum, Paris, **1906**, (11-17).

Lesne, P. 3. Note sur deux espèces australiennes de *Bostrychides* appartenant au genre *Xylobosca*. Bul. Muséum, Paris, **1906**, (190-192). [*Coleoptera*.]

Lesne, M. 4. Insectes; *Bostrychides* et *Clérides* (Collections de M. Maurice de Rothschild, recueillies en Abyssinie et dans l'Afrique orientale anglaise, et données au Muséum d'Histoire naturelle de Paris). Bul. Muséum, Paris, **1906**, (380-382). [*Coleoptera*.]

Lesne, P. 5. *Bostrychides* nouveaux ou peu connus. Paris, Ann. soc. ent., **75**, 1906, (393-428). [*Coleoptera*.]

Lesne, P. 6. Revision des *Coléoptères* de la famille des *Bostrychides*. 5^e Mémoire, *Sinoxylinae*. Paris, Ann. soc. ent., **75**, 1906, (445-561).

Lesne, P. 7. *Elatérides* de Madagascar. Les mâles attribués au genre

Pachyelater. Paris, Bul. soc. ent., **1906**, (172-175 277-280). [*Coleoptera*.]

Lesne, P. 8. Captures. Paris, Bul. soc. ent., **1906**, (186). [*Coleoptera*.]

Lesne, P. 9. Notes additionnelles et rectificatives sur les *Bostrychides* paléarctiques. Abeille, Paris, **30**, 1905, (249-251). [*Coleoptera*.]

Lesne, P. 10. Synopsis des *Micrapate* de l'Amérique centrale. Abeille, Paris, **30**, 1906, (269-281). [*Coleoptera*.]

Lesne, P. 11. Les Insectes rongeurs du bois. Rev. colon., Paris, **1906**, (47-57).

Lesne, P. 12. Viaggio di Leonardo Fea nell' Africa occidentale. *Bostrychidae*. Genova, Ann. Museo Civ. st. nat., **42**, 1905-6, (412-417). [*Coleoptera*.]

Lesne, P. 13. *Bostrychidae*. Nova Guinea, Résultats de l'Expédition scientifique Néerlandaise à la Nouvelle Guinée en 1903, sous les auspices de Arthur Wichmann, Chef de l'Expédition. Leide, **5**, Livr. 1, 1906, (33-34). [*Coleoptera*.]

[Lesne, P. 14. Un *Cléride* saharien nouveau (*Opilo desertorum* nov. sp.). Bul. Muséum, Paris, **1905**, (388-390). [*Coleoptera*.]]

Lesne, P. 15. Mission J. Duchesne-Fournet en Abyssinie. *Coléoptères*. Diagnoses de quatre espèces nouvelles. Bul. Muséum, Paris, **1906**, (505-507).

(Lesne, P. 16. Notes biologiques sur l'*Illipsa testacea* L. Paris, Bul. soc. ent., **1904**, (68-70, av. fig.). [4831 4819].)

(Lesne, P. 17. Notes sur les mœurs et l'habitat de *Platyparea poeciloptera* Schrank et de l'*Agromyza* de l'asperge. Paris, Bul. soc. ent., **1905**, (12-14, av. fig.). [4231 4219].)

(Lesne, P. 18. Les relations des fournis avec les Hémiptères homoptères de la famille des Fulgorides; domestication des *Tettigometra*. Paris, Bul. soc. ent., **1905**, (161-164). [4619 4631].)

(Lesne, P. 19. Deux Curculionides nuisibles aux rosiers. Paris, Bul. soc. ent., **1905**, (177-178). [4819 4831].)

(Lesne, P. 20. Diagnoses de *Bostrychides* africains nouveaux. Paris, Bul. soc. ent., **1905**, (275-276). [4831 4827 f].)

(Lesne, P. 21. Coléoptères. Partie générale. Cicindélides, Bostrychides, Anthribides. Mission Pavie, **3**, 1904, 14-81, 105-108, 127-130). [4831 4827 ed.]

(Léveillé, A. 1. Diagnoses de Temnochilides nouveaux. Paris, Bul. soc. ent., **1905**, (92-93). [4831].)

(Léveillé, A. 2. Description de deux Temnochilides nouveaux. Paris, Bul. soc. ent., **1905**, (179-180). [4831].)

(Léveillé, A. 3. Etude sur la famille des Temnochilides. Paris, Ann. soc. ent., **74**, 1905, (29-44). [4831].)

Lewis, George. 1. On new species of *Histeridae* and notices of others. Ann. Mag. Nat. Hist., Ser. 7, **17**, 1906, (337-344). [*Coleoptera*.]

Lewis, G. 2. On new species of *Histeridae* and notices of others. Ann. Mag. Nat. Hist., London, Ser. 7, **18**, 1906, (180-190). [*Coleoptera*.]

Lewis, G. 3. On new species of *Histeridae* and notices of others. Ann. Mag. Nat. Hist., London, Ser. 7, **18**, 1906, (397-403). [*Coleoptera*.]

Lewis, G. 4. Viaggio di L. Fea nell' Africa occidentale. *Histeridae*. Genova, Ann. Museo Civ. st. nat., **42**, 1905-6, (398-405). [*Coleoptera*.]

Lie-Pettersen, O. J. 1. Neue Beiträge zur Biologie d. norwegischen Hummeln. Bergens Mus. Aarb., **1906**, No. 9, (42). [*Hymenoptera*.]

Lie-Pettersen, O. J. 2. Lidt om vore humlebie og deres liv. [Über unsere Hummeln und ihr Leben.] Bergen, Naturen, **30**, 1906, (193-213). [*Hymenoptera*.]

Lie-Pettersen, O. J. 3. Lidt om myggene og deres udvikling. [Notes on the gnats and their development.] Bergen, Naturen, **30**, 1906, (129-141). [*Diptera*.]

Lie-Pettersen, O. J. 4. Zur Kenntnis der *Apterygoten*fauna des nördlichen Norwegens. Tromsø Mus. Aarsh., **28**, (1905), 1906-07, (51-76, 1 Taf.).

Linden, Maria Gräfin von. 1. Untersuchungen über die Veränderung der Schuppenfarben und der Schuppenformen während der Puppenentwicklung von *Papilio podalirius*. — Die Veränderung der Schuppenformen durch äussere Einflüsse. Biol. Cen-

tralbl., Leipzig, **26**, 1906, (580-600). — Auch. in: Festschrift für J. Rosenthal Teil 1, Leipzig, 1906, (59-81). [*Lepidoptera*.]

Linden, M. Gräfin von. 2. Kohlen-säureassimilation bei Puppen und Raupen von Schmetterlingen. Verh. Ges. D. natf., Leipzig, **77**, ii, 1906, (206-210). [*Lepidoptera*.]

Linden, M. Gräfin von. 3. Die Assimilationstätigkeit bei Puppen und Raupen von Schmetterlingen. Arch. Anat. Physiol., Leipzig, Physiol. Abth., 1906, Supp. Bd., i, Hälfte, (1-108, pls. i, ii).

(Linden, M. Gräfin M. von. 4. L'assimilation de l'acide carbonique par les chrysalides de Lépidoptères. Paris, C.-R. Acad. sci., **141**, 1905, (1258-1260). [4411 4415].)

Lindinger, Leonhard. *Lecanium sericeum* n. sp. Insektenbörse, Leipzig, **23**, 1906, (147, 152). [*Oecidae*.]

Lindsay, John. The "waterflea" scare in our city. Edinburgh, Trans. Nat. Soc., **5**, 1906, (267-276). [*Collembola*.]

Linstow, O[tto] v. Ueber Bohrgänge von Käferlarven in Braunkohlenholz. Briefl. Mitt. Berlin, Jahrb. geol. Landesanst., **26**, (1905), 1906, (467-470). [*Coleoptera*.]

Löffler, Chr. *Euchloë cardamines* und ihre Futterpflanzen. Ent. Zs., Guben, **20**, 1906, (85-86). [*Lepidoptera*.]

Lörincz, Albert. Adalék Magyarországi Hemiptera-faunájához. [Beitrag zur Hemipteren - Fauna Ungarns.] Rovart. L., Budapest, **13**, 1906, (167-170, 189-192).

Loiselle, A. Note sur le *Prasocuris phellandrii* L. Fenille jeunes natural., Paris, **36**, 1906, (133-134). [*Coleoptera*.]

Łomnicki, A. M. Fauna Lwowa i okolicy. 1. Chrząszcze, część 4. [La faune de Léopol et de ses environs. 1. Coléoptères, 4-ème partie.] Kraków, Spraw. Kom. fizyogr., **39**, 1906, (3-22).

Longstaff, G. B. 1. On some bionomic points in certain South African Lamellicorns. London, Trans. Ent. Soc., **1906**, (91-95). [*Coleoptera*.]

Longstaff, G. B. 2. Some restitutions of butterflies. London, Trans. ent. Soc., 1906, (97-118). [*Lepidoptera*.]

Lonitz, Heino. Interessante Abarten von Schmetterlingen . . . [*Papilio machaon*, *Epinephele janira*.] Gera, Jahresber. Ges. Natw., **46-48**, (1903-1905), 1906, (170-172). [*Lepidoptera*.]

Lovell, J. H. and Cockerell, T[heodore] D[ru] A[lison]. Notes on the bees of southern Maine: Anthophoridae, Halictoididae, Macropidae and Panurgidae. Psyche, Cambridge, Mass., **13**, 1906, (109-113). [*Hymenoptera*.]

Lucas, Robert. 1. [Bericht über die wissenschaftl. Leistungen im Gebiete der] *Hymenoptera* [für 1901]. Arch. Natg., Berlin, **68**, Bd 2, H. 2, 2. Hälfte, 1902 [1906], (285-623) = D. ent. Zs., Berlin, **1902**, H. 3, 2. Hälfte, [1906], (285-632).

Lucas, R. 2. [Bericht über die wissenschaftl. Leistungen im Gebiete der] *Lepidoptera* [für 1901]. Arch. Natg., Berlin, **68**, Bd 2, H. 2, 2. Hälfte, 1902 [1906], (633-972) = D. ent. Zs., Berlin, **1902**, H. 3, 2. Hälfte, [1906], (633-972).

Lucas, Daniel. 3. Notes sur quelques *Lépidoptères*. Paris, Ann. soc. ent., **75**, 1906, (26-30).

Lucas, W. J. 4. On the emergence of *Myrmecoleon formicarius* from the pupa. London, Trans. Ent. Soc., **1906**, (53-57). [*Neuroptera*.]

Lucas, W. J. 5. *Neuroptera* taken in France by Dr. T. A. Chapman in 1905 and 1906. Entomologist, London, **39**, 1906, (179).

Lucas, W. T. 6. *Neuroptera* and *Trichoptera* taken by Dr. T. A. Chapman in Spain, 1906. Entomologist, London, **39**, 1906, (276, 277).

Lucas, R. 7. *Trichoptera*; *Panorpatae*; *Neuroptera* — *Planipennia*; *Corrodentia*; *Orthoptera*; *Plecoptera*; *Odonata*; *Agnatha*; *Dermatoptera* (*Forficulidae*). [Jahresberichte 1901.] Arch. Natg., Berlin, **68**, Bd 2, H. 2, 2. Hälfte, 1902 [1906], (1021-1040, 1205-1311) = D. ent. Zs., Berlin, **1902**, H. 3, 2. Hälfte, [1906], (gleiche Pag.).

Lucas, R. 8. *Mallophaga* (*Parasitica*); *Thysanoptera*; *Apterygogenea*. [Jahresbericht 1901.] Arch. Natg., Berlin, **68**, Bd 2, H. 2, 2. Hälfte, 1902, [1906], (1203-1204, 1312-1356) = D. ent. Zs., Berlin, **1902**, H. 3, 2. Hälfte, [1906], (gleiche Pag.).

(Lucas. 9. Description d'une larve géante appartenant à la famille des Lampyridés. Mission Pavie, **3**, 1904, (104-105).)

Ludlow, Clara S. 1. A new American mosquito. Washington, D.C., George Washington Univ. Bull., **5**, 1906, (83-84). [*Diptera*.]

Ludlow, C. S. 2. Mosquito notes. No. 4 (continued). Canad. Entomol., **38**, 1906, (132-131). [*Diptera*.]

Ludlow, C. S. 3. An Alaskan mosquito. Canad. Entomol., **38**, 1906, (326-328). [*Diptera*.]

Ludlow, C. S. 4. Mosquito notes. No. 5. Canad. Entomol., **38**, 1906, (367, 368). [*Diptera*.]

Ludlow, C. S. 5. Description of a new *Anopheles*. The Journal of the American Medical Association, Chicago, Ill., **39**, 1902, (426-427). [*Diptera*.]

Lühe. Die tierischen Parasiten des Elchs. Königsberg Schr. physik. Ges., **46**, (1905), 1906, (177-180). [*Diptera*.]

Luff, W. A. The *Aphides* of Guernsey. Guernsey, Trans. Soc. Nat. Sci., **1905**, (82-89).

Lundström, Carl. Om *Desmometoparternas* snyltgästning hos spindlar och rofinsektor. [Parasitism of *Desmometopa*.] Helsingfors, Medd. Soc. Fauna Fl. Fenn., **32**, 1906, (100-104). [*Diptera*.]

Lutz, Frank E. The tegminal position in *Gryllus*. Canad. Entomol., **38**, 1906, (207-209). [*Orthoptera*.]

Luze, G. Revision der paläarktischen Arten der *Staphyliniden*-Genera: *Nyctodromus*, *Omalium*, *Phyllodrepa*, *Hypopyena*, *Dialycera*, *Pyenoglypta* und *Phloconomus*. Wien, Verh. ZoolBot. Ges., **1906**, (485-602). [*Coleoptera*.]

Mabille, P. 1. Description d'un Hespéride. Paris, Bul. soc. ent., **1906**, (67-68). [*Lepidoptera*.]

Mabille, P. 2. Notes sur plusieurs *Lépidoptères* de la faune paléarctique. Paris, Ann. soc. ent., **75**, 1906, (31-36).

Mabille, P. 3. Essai sur la faune de l'île d'Oléron. Paris, Ann. soc. ent., **75**, 1906, (37-56).

MacDougall, R. Stewart. 1. The large larch sawfly. J. Board Agric. fish. London, 1906, Oct., (12, 1 pl.). [*Hymenoptera*.]

MacDougall, R. S. 2. *Megastigmus spermatrophus* Wachtl. as an enemy of Douglas fir (*Pseudotsuga douglasii*). Edinburgh, Trans. R. Scot. arbor. Soc., **1906**, (52-65, 2 pls.). [*Hymenoptera*.]

MacDougall, R. S. 3. On some injurious Insects in 1905. Edinburgh, Trans. Highl. Soc. Scot., Ser. 5, **18**, 1906, (224-236).

MacGillivray, Alexander Dyer. 1. A study of the wings of the *Tenthredinoidea*, a superfamily of *Hymenoptera*. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **29**, 1906, No. 1438, (569-654). [*Hymenoptera*.]

MacGillivray, A. D. 2. The American species of *Priophorus*. Canad. Entomol., **38**, 1906, (305-307). [*Hymenoptera*.]

Magretti, Paolo. Materiali per la conoscenza della fauna eritrea. Insetti. *Imenotteri*. Parte I. *Mutillidi*. Firenze, Boll. Soc. Entom., **37**, (1905), 1906, (3-96).

Mainardi, Athos. Un nuovo genere e una nuova specie italiana della famiglia *Curculionidae* (*Acallornema reitteri* n. g., n. sp.). Riv. Coleotter. ital., Camerino, **4**, 1906, (149-156). [*Coleoptera*.]

Maindron, Maurice. 1. Description d'une nouvelle espèce de *Pheropsophus* et remarques sur ce genre. Paris, Bul. soc. ent., **1906**, (15, 16). [*Coleoptera*.]

Maindron, M. 2. Description d'une nouvelle espèce de *Colpodes* de la Nouvelle-Guinée. Paris, Bul. soc. ent., **1906**, (24-25). [*Coleoptera*.]

Maindron, M. 3. Remarques sur les *Anchonoderidae* de l'Inde et descriptions d'espèces nouvelles. Paris, Bul. soc. ent., **1906**, (75-77). [*Coleoptera*.]

Maindron, M. 4. Description d'une nouvelle espèce de *Catascopus*. Paris, Bul. soc. ent., **1906**, (152-153). [*Coleoptera*.]

Maindron, M. 5. Notes sur les *Carabidae* du Yun-Nan. Paris, Bul. soc. ent., **1906**, (215-217, 225-226, 250-251). [*Coleoptera*.]

Maindron, M. 6. Sur le genre *Phloeotherates* Bates. Paris, Bul. soc. ent., **1906**, (251). [*Coleoptera*.]

Maindron, M. 7. Remarques synonymiques. Paris, Bul. soc. ent., **1906**, (251-252). [*Coleoptera*.]

Maindron, M. 8. Remarques sur divers *Carabidae* pris en Corse. Paris, Bul. soc. ent., **1906**, (280-282). [*Coleoptera*.]

Maindron, M. 9. Matériaux pour servir à l'histoire des Cicindélides et des Carabiques. III. Notes sur divers *Carabidae* de l'Amérique du Sud. Paris, Ann. soc. ent., **75**, 1906, (195-202). [*Coleoptera*.]

(Maindron, M. 10. Notes sur quelques *Cicindelidae* et *Carabidae* de l'Inde et description d'espèces nouvelles. Paris, Bul. soc. ent., **1904**, (263-265, fig.). [1831 4827 ef].)

(Maindron, M. 11. Notes synonymiques sur quelques Coléoptères de la famille des *Carabidae*. Paris, Bul. soc. ent., **1905**, (94-95). [4831].)

(Maindron, M. 12. Matériaux pour servir à l'histoire des Cicindélides et des Carabiques. II. Notes sur divers *Carabidae*. Paris, Ann. soc. ent., **74**, 1905, (331-336). [4831].)

Malloch, J. R. *Phora cubitalis* Beck., a species new to the British list. Ent. Mag., London, **42**, 1906, (233). [*Diptera*.]

Mantero, Giacomo. 1. Materiali per una fauna dell'Arcipelago toscana. Catalogo degli *Imenotteri* dell'Isola del Giglio. Parte I. Genova, Ann. Museo Civ. st. nat., **42**, 1905-6, (10-86).

Mantero, G. 2. Res Lignusticae. XXXVII. Materiali per un catalogo degli *Imenotteri* liguri. Parte IV. *Cinipidi*. Genova, Ann. Museo Civ. st. nat., **42**, 1905-6, (445-467).

[Marchal, C. and Chateau, E. Catalogue des Zoocécides de Saône-et-Loire. Autun, Bul. Soc. hist. nat., **18**, 1905, (233-320).]

Marchal, P. 1. L'Anthonome du cotonnier. J. agricult. tropic. Paris, **1905**, (229-234, 293-297). [*Coleoptera*.]

Marchal, P. 2. Discours [présidentiel]. Paris, Bul. soc. ent., **1906**, (5-9).

Marchal, P. 3. Sur deux espèces de Cochenilles nouvelles récoltées en Algérie. Paris, Bul. soc. ent., **1906**, (143-145). [*Coccidae*.]

Marchal, P. 4. [Sur la biologie de *l'Agrilus chrysoderes*, var. *rubicola*

Ab.]. Paris, Bul. soc. ent., **1906**, (170-171). [*Coleoptera*.]

Marchal, P. 5. Contributions à l'étude biologique des *Chermes* (2^e Note). Le *Chermes pini* Koch. Paris, Bul. soc. ent., **1906**, (179-182). [*Aphidae*.]

Marchal, P. 6. Introduction des parasites européens du *Liparis* (*Portheria*) *chrysorrhoea* aux Etats-Unis. Paris, Bul. soc. ent., **1906**, (268-269). [*Lepidoptera*.]

Marchal, P. 7. Recherches sur la biologie et le développement des *Hyménoptères* parasites. Les *Platygastrs*. Arch. zool., Paris, **4**, 1906, (485-640, pl.).

Marchal, P. 8. Contributions à l'étude biologique des *Chermes*: Première note. Le *Chermes piceae* Ratz. Paris, Bul. soc. zool., **31**, 1906, (111-114). [*Aphidae*.]

(**Marchal, P. 9.** Sur la biologie du *Chysomphalus dictyospermi*, var. *minor* Berlese, et sur l'extension de cette cochenille dans le bassin méditerranéen. Paris, Bul. soc. ent., **1904**, (246-249). [4031 4019 4027 df + dm].)

(**Marchal, P. 10.** Diagnose d'une Cécidomyée nouvelle vivant sur le Caroubier. Paris, Bul. soc. ent., **1904**, (272). [1231 4203].)

Mark, E[dward] L[aurens] and Cope-land, Manton. Some stages in the spermatogenesis of the honey bee. [Cont. Mus. Comp. Zool., Harvard Coll., No. **179**], Boston, Mass., Proc. Amer. Acad. Arts Sci., **42**, 1906, (101-112, pl.).

Marlatt, C[harles] L[ester]. 1. The San Jose or Chinese scale. Washington, D.C., U. S. Dept. Agric., Bur. Ent., Bull., No. **62**, 1906, (1-89, pls. i-ix). [*Coccidae*.]

Marlatt, C. L. 2. The periodical cicada in 1906. (*Tibicen septendecim* L.) Washington, D.C., Cir., U. S. Dept. Agric., Bur. Ent., No. **74**, 1906, (1-5). [*Homoptera*.]

Marshall, Guy A. K. A monograph of the *Coleoptera* of the genus *Sciobius* Schh. (*Cureulionidae*). London, Proc. Zool. Soc., **1906**, (236-276, pls. xviii and xix).

Marshall, Wm. S. and Vorhies, C. T. Cytological studies on the spinning glands of *Platyphylax designatus* Walker

(*Phryganid*). Intern. Monatschr. Anat., Leipzig, **23**, 1906, (397-420, pls. xx, xxi). [*Trichoptera*.]

Martin, René. 1. Collections recueillies par M. Maurice de Rothschild dans l'Afrique orientale anglaise: Insectes: *Odonates* nouveaux. Bul. Muséum, Paris, **1906**, (508-514).

(**Martin, R. 2.** Liste des Névroptères de l'Indo-Chine. Mission Pavie, **3**, 1904, (204-221). [3831 3827 ed].)

Martin, Joanny vide Noualhier, Maurice.

Martinetti, Paolo vide Ferni, Claudio.

[**Martynov, A.** Мартыновъ, А. *Trichoptera* Канинской Экспедиции Императорскаго Русскаго Географическаго Общества. [Die *Trichopteren* der von der Kais. Russ. Geographischen Gesellschaft ausgerüsteten Kanin-Expedition.] St. Peterburg, Zap. Russ. Geogr. Obsč., **41**, 1906, (267-275 mit 6 fig.).

Massalongo, C. Nuovi zoocccidii della Flora Veronese. III serie. Marcellia, Avellino, **5**, 1906, (26-32).

Mast, S. O. vide Barrows, W. M.

Mathew, Gervase F. 1. *Stenoptilia graphodactyla*, a species of *Alucitid* new to the British fauna. Ent. Rec., London, **18**, 1906, (245). [*Lepidoptera*.]

Mathew, G. F. 2. Some notes on *Camptogramma fluviala* with descriptions of new aberrations. Ent. Rec., London, **18**, 1906, (281-283). [*Lepidoptera*.]

Matsumura, S[honen]. 1. Die *Cicadinen* der Provinz Westpreussen und des östlichen Nachbargebiets. Mit Beschreibungen und Abbildungen neuer Arten. Danzig, Schr. natf. Ges., N.F., **11**, H. 4, 1906, (64-82, 1 Taf.). [*Homoptera*.]

Matsumura, S. 2. Die wasser *Hemipteren* Japans. Sapporo, Journal of Sapporo Agricultural College, **2**, 1905, (53-65, pl.).

Matsumura, S. 3. Die *Hemipteren* Fauna von Riukiu (Okinawa). Sapporo, Transactions of the Sapporo Natural History Society, **1**, 1905-1906, (15-38, pl.).

Matsumura, S. 4. Neue *Rhopalocerini* Japans. Annot. Zool. Jap., Tokyo, **6**, 1906, (7-15, pl.).

Matsumura, S. 5. Hompo nettai Konehū no Bunpu ni tsuite. [On the distribution of tropical insects in Japan.] Koneh. Sek., Gifu, **10**, 1906, (10-12).

Matsumura, S. und **Shiraki, T.** Monographie der *Forficuliden* Japans. Sapporo, Journal of Sapporo Agricultural College, **2**, 1905, (75-86).

Matsushita, Kenzaburō. Tensan oyobi Sakusan Shi ni tsuite [On the silks of *Bombyx yamamai* and *Bombyx pernyi*.] Tokyo, Nip. Sanshi Kw. Hō, **165**, 1906, (11-13); **169**, 1906, (17-20); **170**, 1906, (3-5). [*Lepidoptera*.]

Mayer, Alfred G[oldsborough] and **Soule, Caroline G.** Some reactions of caterpillars and moths. J. Exp. Zool., Baltimore, Md., **3**, 1906, (415-433). [*Lepidoptera*.]

Mayet, Valéry. 1. Métamorphoses du *Cleonus mendicus* Gyll. Paris, Bul. soc. ent., **1906**, (102-104). [*Coleoptera*.]

Mayet, Valéry. 2. Longévité des *Margarodes*. Paris, Bul. soc. ent., **1906**, (228-229). [*Coccidae*.]

Mayet, V. 3. Plantes attaquées par l'*Entomoseelis adonidis* Fall. Feuille jeunes natural., Paris, **36**, 1906, (167). [*Coleoptera*.]

(**Mayet, V.** 4. Description d'un *Aphodius* nouveau de France. Paris, Bul. soc. ent., **1904**, (130-132). [4831 4827 df].)

(**Mayet, V.** 5. Le *Lucasiannus levaillanti* Lucas, sa découverte en France et ses mœurs. Paris, Bul. soc. ent., **1905**, 277-279). [4831 4819 4827 df].)

Mayr, Gustav. Neue Feigen-Insekten. Entomol. Ztg., Wien, **25**, 1906, (153-187). [*Hymenoptera*.]

[**Mazarakij, V. V.** 1. Мазаракій, В. В. Въ поискахъ за *Cicindela maritima* Dej. въ С.-Петербургской губернии. [Auf der Suche nach *Cicindela maritima* Dej. im St. Petersburg Gouvernement]. St. Petersburg, Hor. Soc. Ent. Ross., **37**, 1906. (lxxxii-lxxxiv). [*Coleoptera*.]

[**Mazarakij, V. V.** 2. Мазаракій, В. В. Экскурси въ окрестностяхъ г. С.-Петербурга весной 1904 года. [Excursionen in der Umgebung von St. Petersburg im Frühjahr 1904]. St. Petersburg, **37**, 1906, (xcvii-xcix).

McAtee, W. L. A buried treasure of economic ornithology, [work of Isaac P. Trimble]. Science, New York, N.Y., **24**, 1906, (308-312).

McClendon, J. F. 1. Notes on collecting in Mexico. Ent. News, Philadelphia, Pa., **17**, 1906, (26-27). [*Neuroptera*.]

McClendon, J. F. 2. Notes on the true *Neuroptera*. 1. *Brachynemurus eurriei*, a new ant lion from Texas. Ent. News, Philadelphia, Pa., **17**, 1906, (93).

McClendon, J. F. 3. Notes on the true *Neuroptera*. 2. On venation in *Neuroptera*. Ent. News, Philadelphia, Pa., **17**, 1906, (116-121).

McClendon, J. F. 4. Notes on the true *Neuroptera*. 3. A catalogue of Texas *Neuroptera*. Ent. News, Philadelphia, Pa., **17**, 1906, (169-173, pl. viii).

McClung, C[larence] **E**[rwin]. Comparative study of the spermatogenesis of insects. Washington, D.C., Carnegie Inst., Year Book No. **4**, (1905), 1906, (282-283).

McCracken, Isabel. 1. Inheritance of dichromatism in *Lina* and *Gastroidea*. J. exp. Zool. Baltimore, Md., **3**, 1906, (331-336). [*Coleoptera*.]

(**McCracken, I.** 2. A study of the inheritance of dichromatism in *Lina lapponica*. J. Exp. Zool., Baltimore, Md., **2**, 1905, (117-136, with 1 pl. and 3 text fig.). [4827].)

McGill, Caroline. The behaviour of the nucleoli during oogenesis of the dragon-fly with especial reference to synapsis. Zool. Jahrb., Jena, Abt. f. Anat., **23**, 1906, (207-230, 5 Taf.). [*Odonata*.]

Megusar, Fr[anz]. 1. Berichtigung [betr. Geschlechtsorgane v. *Hydrophilus*.] Zool. Anz., Leipzig, **30**, 1906, (494). [*Coleoptera*.]

Megušar, F. 2. Einfluss abnormaler Gravitationswirkung auf die Embryonalentwicklung bei *Hydrophilus aterrimus* Eschscholtz. Arch. Entw.-Mech., Leipzig, **22**, 1906, (141-148). [*Coleoptera*.]

Meijere, J. C. H. de. 1. Einige von Herrn Dr. Winkler in Victoria, Kamerun, gesammelte *Dipteren*. Zs. Hymenopter., Teschendorf, **6**, 1906, (332-335).

Meijere, J. C. H. de. 2. Über einige indo-australische *Dipteren* des Ungarischen National-Museums, bez. des Naturhistorischen Museums zu Genua. Ann. Hist.-Nat. Mus. Nat. Hung., Budapest, **4**, 1906, (165-196, Taf. ii). [*Diptera*.]

Meijere, J. C. H. de. 3. Ueber zwei neue holländische *Cecidomyiden*, von welchen die eine den Kohlpflanzen schädlich ist. 's Gravenhage, Tijdschr. Ent., **49**, 1906, (18-28, pl. iii). [*Diptera*.]

Meijere, J. C. H. de. 4. *Cecidomyiden*-larven in *Psylla*. (Dutch) 's Gravenhage, Tijdschr. Ent., **49**, [1906]. (xxi-xxii).

Meijere, J. C. H. de. 5. Die Lonchopteren des palaarktischen Gebietes. 's Gravenhage, Tijdschr. Ent., **49**, [1906], (44-98, 2 Taf.). [*Diptera*.]

Meijere, J. C. H. de. 6. *Diptera*. Nova Guinea, Résultats de l'Expédition scientifique Néerlandaise à la Nouvelle-Guinée en 1903, sous les auspices de Arthur Wichmann, Chef de l'Expédition. Leide (E. J. Brill), **5**, Livr. 1, 1906, (67-99, 1 Taf.).

Meijere, J. C. H. de. 7. Proeven van Edw. Jacobson omtrent het weerstandsvermogen van *Dipteren*-larven tegen plantaardige vergiften. [Versuche von Edw. Jacobson betreffend die Widerstandsfähigkeit der *Dipteren*-Larven gegen Pflanzen-Gifte]. 's Gravenhage, Ber. Ned. Ent. Ver., **2**, 1906, (109-113).

Meissner, Otto. 1. Statistische Untersuchungen über Färbungsvariationen bei *Coleopteren* (1906). Zs. wiss. Insektenbiol., Husum, **2**, 1906, (351-354).

Meissner, O. 2. Die Lebensdauer von *Myrmecoleon formicarius*. Insektenbörse, Leipzig, **23**, 1906, (131-132). [*Neuroptera*.]

Meissner, O. 3. Weiteres zur Biologie von *Myrmecoleon formicarius*. Insektenbörse, Leipzig, **23**, 1906, (168). [*Neuroptera*.]

Meissner, Otto. 4. Bemerkungen über die Zucht von *Coccinelliden*-larven. Insektenbörse, Leipzig, **23**, 1906, (143-144). [*Coleoptera*.]

Meissner, O. 5. Zucht eines *Lamproyris-noctiluea* ♀. Insektenbörse,

Leipzig, **23**, 1906, (191-182). [*Coleoptera*.]

Meissner, O. 6. Die Aufenthaltsorte der *Coccinelliden*. Ent. Zs., Guben, **20**, 1903, (187-188). [*Coleoptera*.]

Meissner, O. 7. Wie fressen die Raupen die Blätter? Insektenbörse, Leipzig, **23**, 1906, (136). [*Lepidoptera*.]

Meissner, O. 8. Ueber die Lebensfähigkeit der Insekten. Insektenbörse, Leipzig, **23**, 1906, (28, 46-47).

Meissner, O. 9. Geschlechtliche Irrungen bei Käfern. Insektenbörse, Leipzig, **23**, 1906, (92). [*Coleoptera*.]

Meissner, O. 10. Ueber die Lebensfähigkeit der Insekten. (Mitt. 3.) Insektenbörse, Leipzig, **23**, 1906, (108).

Meixner, Adolf. 1. Der männliche Genitalapparat von *Rebelia plumella* H. S. Ent. Jahrb., Leipzig, **16**, 1907, (125-128, 1 Taf.). [*Lepidoptera*.]

Meixner, A. 2. Der männliche und weibliche Genitalapparat der *Chloroclystis rectangulata* L. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (337-344, 376-381). [*Lepidoptera*.]

Melander, A[xel] L[conard]. 1. The common house fly a dangerous pest. Bull., Washington Agric. Coll. Exp. Stat., 1905, (1-8). [*Diptera*.]

Melander, A. L. 2. Some new or little-known genera of *Empididae*. Ent. News, Philadelphia, Pa., **17**, 1906, (370-379). [*Diptera*.]

Melander, A. L. 3. Two insect pests of the elm. Agric. Exp. Sta., Washington, Bull., **74**, 1906, (1-7).

Melander, A. L. and Brues, C[harles] T. The chemical nature of some insect secretions. Milwaukee, Bull. Wis. Nat. Hist. Soc., N. Ser., **4**, 1906, (22-36).

Melander, A. L. and Jenne, E. L. The codling moth in the Yakima valley. Agric. Exp. Sta., Washington, Pullman, Bull., No. **77**, 1906, (1-96). [*Lepidoptera*.]

Melichar, L[eopold]. 1. Monographie der Issiden (*Homoptera*). Wien, Abh. ZoolBot. Ges., **3**, Heft 4, 1906, (1-327).

(Melichar, L. 2. Eine neue *Triecphora*-Art (*Homoptera*). Entomol. Ztg., Wien, **22**, 1903, (282). [4031.]

Mendes, d'Azevedo C. *Lepidopteros* de Portugal. II. *Microlepidopteros* da região de S. Fiel (Beira Baixa). *Broteria*, **3**, 1904, (223-254); **4**, 1905, (166-177).

Mensik, E. Ergebnisse der Versuche über Goldpuppenbildung bei *Vanessa urticae* und weissgoldigen [?] Puppen bei *Van. io*. *Zs. Ent.*, Breslau, N.F., II. **31**, 1906, (15-18). [*Lepidoptera*.]

Mera, A. W. Presidential address for 1905. London, *Trans. City Nat. Hist. Soc.*, 1905, (19-24).

Mercet, Ricardo Garcia. Los *Gorytes* y *Stizus* de España. [The *Gorytes* and *Stizus* of Spain.] Madrid, *Mem. Soc. Esp. Hist. Nat.*, **4**, 1906, (111-158). [*Hymenoptera*.]

Mercier, L. Les processus phagocytaires pendant la métamorphose des batraciens anoures et des insectes. *Arch. zool.*, Paris, sér. 4, **5**, 1906, (1-151). [*Diptera*.]

[**Metalnikov**, S. I.] Метальниковъ, С. И. Къ вопросу объ иммунитѣтѣ пчелиной моты (Galleria melonella) по отношенію къ туберкулезной инфекціи. [Beitrag zur Frage über die Immunität der Bienenmotte (Galleria melonella) in Bezug auf Infektion mit Tuberkulose]. *Arch. sc. biol.*, St. Petersburg, **12**, 4-5, 1906, (299-316, mit 2 Taf.). [*Lepidoptera*.]

Metzger. Wandernde Kohlweisslinge. *Prakt. Bl. Pflanzenbau*, Stuttgart, **4**, 1906, (126-127). [*Lepidoptera*.]

Meunier, Fernand. 1. *Pericentomum mortuum* Hagen (Meun.) Archiptère *Psocidae* du Copal fossile de Zanzibar. *Naturaliste*, Paris, **28**, 1906, (58-60).

Meunier, F. 2. Un nouveau genre de *Psychodidae* et une nouvelle espèce de *Dactylobasis* (*Tipulidae*) de l'ambre de la Baltique. *Naturaliste*, Paris, **28**, 1906, (103-104). [*Diptera*.]

Meunier, F. 3. Sur quelques insectes (*Diptères*, *Hyménoptères*, *Neuroptères*, *Orthoptères*) du Copal fossile, subfossile et récent du Zanzibar et du Copal récent d'Accra, de Togo et de Madagascar. Bruxelles, *Ann. Soc. Scient.*, **30**, (211-213).

Meunier, F. 4. Les *Tipulidae* de l'ambre de la Baltique. Bruxelles,

Ann. Soc. Scient., **36**, 1906, (213-215). [*Diptera*.]

Meunier, F. 5. Les *Dolichopodidae* de l'ambre de la Baltique. Paris, C.-R. Acad. sci., **143**, 1906, (617-618). [*Diptera*.]

Meunier, F. 6. Une nouvelle espèce d'*Etolblattina* du Houiller supérieur de Fontanes (Gard). Paris, *Bul. soc. ent.*, **1906**, (82-85). [*Orthoptera*.]

Meunier, F. 7. Sur une nouvelle espèce de *Toxorhina* du copal récent de Madagascar. Elbeuf, *Bul. soc. étud. sci. nat.*, **24**, 1906, (97-100). [*Diptera*.]

Meunier, F. 8. Sur deux Insectes (*Hyménoptère* et *Diptère*) du copal fossile de Zanzibar, et sur un *Asilide* (*Diptère*) du copal récent de Zanzibar. *Rev. sci. Bourbonn.*, Moulins, **1906**, (59-62, 1 pl.).

(**Meunier**, F. 9. Sur deux *Mymaridae* de l'ambre de la Baltique. *Misc. ent.*, Narbonne, **13**, 1905, (1-1, av. fig.). [1631])

(**Meunier**, F. 10. Sur un curieux *Psychodidae* de l'ambre de la Baltique. *Misc. ent.*, Narbonne, **13**, 1905, (49-51, av. fig.). [4231].)

(**Meunier**, F. 11. Sur quelques *Diptères* (*Cecidomyidae*, *Tachinidae*, *Chloropinae*, *Phoridae*) et un *Hyménoptère* (*Chalcididae*) d'un copal récent de Madagascar. *Misc. ent.*, Narbonne, **13**, 1905, (89-94, av. fig.). [4231].)

Mewes, J. Der Kiefernspinner in Schweden 1903 und 1904. *Zs. Forstw.*, Berlin, **38**, 1906, (39-45). [*Lepidoptera*.]

Meyer. *Mitochristae miniatae* aberratio *flura*. *Insektenbörse*, Leipzig, **23**, 1906, (88). [*Lepidoptera*.]

Meyer-Darcis, G. Description de deux *Polybothris* nouveaux de Madagascar. Paris, *Bul. soc. ent.*, **1906**, (36). [*Coleoptera*.]

Meyrick, Edward. 1. Descriptions of Australian *Tineina*. Adelaide, S. Aust. *Trans. R. Soc.*, **30**, 1906, (33-66). [*Lepidoptera*.]

Meyrick, E. 2. On the genus *Imma* Walk. (= *Tortricomorpha* Feld.). London, *Trans. Ent. Soc.*, **1906**, (169-206). [*Lepidoptera*.]

Meyrick, E. 3. Descriptions of Indian *Micro-Lepidoptera*, II. Bombay,

J. Nat. Hist. Soc., **17**, 1906, (133-153, 403-417).

Meyrick, E. 4. List of *Coleoptera* of the district. Marlborough, Rep. Coll. Nat. Hist. Soc., **54**, 1906, (76-96).

Michalski, W. O działaniu niektórych alkaloidów na karaczana. [Sur l'action de certains alcaloïdes sur les blattes.] Kraków, Rozpr. Akad., **45** B, 1905, (356-388). [*Orthoptera*.]

Mikutowicz, Jos. M. Zur *Koleopterenfauna* der Ostseeprovinzen Russlands. Riga, Korr.-blt. Natrf.-Ver., **48**, 1905, (73-92).

Miller, Newton. Some notes on the dragonflies of Waterloo, Iowa. Ent. News, Philadelphia, Pa., **17**, 1906, (357-361). [*Odonata*.]

Minchin, E. A. The breeding habits of the Tsetse-fly. Nature, London, **74**, 1906, (636), and correction **75**, (3^o). [*Diptera*.]

Minchin, E. A., Gray, A. C. II. and Tullock, F. M. G. *Glossina palpalis* in its relation to *Trypanosoma gambiense* and other Trypanosomes (preliminary report). London, Proc. R. Soc., B **78**, 1906, (242-258, pls. xii-xiv). [*Diptera*.]

Mingaud, Galien. 1. Le Castor du Rhône et ses parasites. Nîmes, Bul. soc. étud. sci. nat., **33**, 1906, (74-77). [*Coleoptera*.]

Mingaud, G. 2. Nouvelles captures de *Platysyllus castoris* Rits. Nîmes, Bul. soc. étud. sci. nat., **33**, 1906, (85-87). [*Coleoptera*.]

Mingazzini, Pio vide Stefanelli, P.

Mirande, Marcel. Sur un cas de formation d'anthocyanine sous l'influence d'une morsure d'Insecte (*Eurhipara urticae* L.). Paris, C.-R. Acad. sci., **143**, 1906, (413-416). [*Lepidoptera*.]

Mitchell, Evelyn G. 1. On the known larvae of the genus *Uranotenidia*. New York, N.Y., J. Ent. Soc., **14**, 1906, (8-9). [*Diptera*.]

Mitchell, E. G. 2. Mouth parts of mosquito larvae as indicative of habits. Psyche, Boston, Mass., **13**, 1906, (11-21). [*Diptera*.]

Mitchell, E. G. 3. Notes on *Tanypus dyari*. Ent. News, Philadelphia, Pa., **17**, 1906, (244-246). [*Diptera*.]

Miyake, Tsunekata. Taiwan Chornu Zuzetsu. [A review of the Butterflies (n-9720 j)]

in Formosa.] Dobuts. Z., Tokyo, **18**, 1906, (76-88, 113-125, 141-153). [*Lepidoptera*.]

Mjöberg, Eric. 1. Ueber *Systellonotus triguttatus* L. und sein Verhältnis zu *Lasius niger*. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (107-109). [*Hemiptera*.]

Mjöberg, E. 2. Zur Kenntnis einiger unter Seetang lebenden Insekten. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (137-143).

[**Mjöberg, E.** 3. Über eine schwedische interglaciale *Coleopterenspecies*. Stockholm, Geol. För. Förh., **26**, 1904, (493-497).]

[**Mjöberg, E.** 4. Über eine schwedische interglaciale *Gyrinusspecies*. Stockholm, Geol. För. Förh., **27**, 1905, (233-236). [*Coleoptera*.]]

Mjöberg, E. 5. Om några svenska insekters biologi och utveckling. [Biology and development of some Swedish insects.] Ark. Zool., Stockholm, **3**, No. 6, (1-22, pl. i).

Mjöberg, E. 6. Zur Kenntnis der Insektenfauna von Süd-Georgien. Ark. Zool., Stockholm, **3**, 1906, No. 13, (1-14, pl. i). [*Coleoptera*.]

Mjöberg, E. 7. Om *Niptus hololeucus* Falderm. Dess lefnadssätt, utveckling och uppträdande som skadeinsekt. [*Niptus hololeucus* Falderm. Its life-habits, development and occurrence as a pest.] Entomol. Tidskr., Stockholm, **27**, 1906, (65-68). [*Coleoptera*.]

Mjöberg, E. 8. Om *Tomicus cryptographus* Ratzb. Entomol. Tidskr., Stockholm, **27**, 1906, (137-142). [*Coleoptera*.]

Mocsáry, Alexander. 1. *Vespidarum* species quatuor novae. Ann. Hist.-Nat. Mus. Nat. Hung., Budapest, **4**, 1906, (197-200). [*Hymenoptera*.]

Mocsáry, Sándor. 2. A méhfélékről. [Über die Bienen.] Rovart. L., Budapest, **13**, 1906, (1-6). [*Hymenoptera*.]

Möllenkamp, W. 1. Beitrag zur Kenntnis der *Lucaniden*. Ent. Zs., Guben, **20**, 1906, (156, 170-171). [*Coleoptera*.]

Möllenkamp, W. 2. Eine neue *Allotopus*-Art aus Malakka. Ent. Zs., Guben, **20**, 1906, (211). [*Coleoptera*.]

- Möllenkamp, W.** 3. Beitrag zur Kenntnis der *Lucaniden*. Insektenbörse, Leipzig, **23**, 1906, (31-32). [*Coleoptera*].
- Mokrzecki, S.** 1. Beitrag zur Kenntnis der Lebensweise von *Syntomaspis pubescens* Först., *druparum* (Boh.) Thoms., (*Hymenoptera*, *Chalcididae*). Zs. wiss. Insektenbiol., Husum, **2**, 1906, (390-392).
- [**Mokrzecki, S. A.**] 2. Мокржецкий, С. Л. Отчетъ о деятельности Губернскаго Энтомолога Таврическаго Зехетства за 1906 г. [Bericht über die Thätigkeit des Gouvernements-Entomologen der Taurischen Landbehörde für das Jahr 1906.] Simferopol, 1906, (14).
- Mollandin de Boissy, R.** 1. Sur *Bolboceras gallicum* Muls. Paris, Bull. soc. ent., **1906**, (178). [*Coleoptera*].
- (**Mollandin de Boissy, R.** 2. Description d'un *Copris* Geoffroy nouveau d'Algérie. Paris, Bul. soc. ent., **1905**, (110-113, av. fig.). [4831 4827 fa].)
- Molz, Emil.** Ueber Phototropismus bei den Larven von *Eriocampa adumbrata* Klg. Jahresber. Ver. angew. Bot., Berlin, **3**, (1904-05), 1906, (65-75). [*Hymenoptera*].
- Montandon, A. L.** Notes sur la faune entomologique de la Roumanie. Bucarest, Bull. Soc. Sci., **15**, 1906, (30-30). [*Coleoptera*].
- Montgomery, Thomas H.** 1. Chromosomes in the spermatogenesis of the *Hemiptera Heteroptera*. [Cont. Zool. Lab. Univ. Tex., No. **72**.] Philadelphia, Pa., Trans. Amer. Phil. Soc., N. Ser., **21**, 1906, (97-173).
- Montgomery, T. H.** 2. The terminology of aberrant chromosomes and their behavior in certain *Hemiptera*. Science, New York, N.Y., **23**, 1906, (36-38).
- Moore, F.** 1. Description of a new species of *Parnassius*. Ann. Mag. Nat. Hist., London, Ser. 7, **18**, 1906, (17). [*Lepidoptera*].
- Moore, F.** 2. *Lepidoptera indica*: parts 74 and 75 = **7**, (17-64, pls. 559-572). London, 1906.
- Moore, Richard.** Notes on the habits of *Cieindela*. Ent. News, Philadelphia, Pa., **17**, 1906, (338-343). [*Coleoptera*].
- Morgan, Thomas Hunt.** The male and female eggs of phyloxerans of the

hickories. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **10**, 1906, (201-206).

Morgenroth, J. u. Carpi, U. Ueber ein Toxolecithid des Bienengiftes. Berliner klin. Wochenschr., **43**, 1906, (1424-1425). [*Hymenoptera*].

Mori, Sotarō. Manshū ni okeru Kajo kujo no Kōka gairyaku. [Remedies against house fly in Manchuria.] Koneh. Sek., Gifu, **10**, 1906, (144-186).

Morice, F. D. 1. Help-notes towards the determination of British *Tenthredinidae* (continued). Ent. Mag., London, **42**, 1906, (30-32, 79-84, 130-136, 206-210, 246-251). [*Hymenoptera*].

Morice, F. D. 2. Nidification of *Odynerus reniformis* Gmel., near Chobham. Ent. Mag., London, **42**, 1906, (216-218). [*Hymenoptera*].

Morley, B. Notes on *Lepidopterous* variation in the Skelmanthorpe district, Naturalist, London, **1906**, (48-52).

Morley, Claude. 1. Notes on the *Hymenopterous* family *Microgasteridae*. Entomologist, London, **39**, 1906, (99-105).

Morley, C. 2. Notes on the *Hymenopterous* genus *Bracon* Fab. Ent. Mag., London, **42**, 1906, (106-110).

Morley, C. 3. On a few *Tachinidae* and their hosts. Entomologist, London, **39**, 1906, (270-274). [*Diptera*].

Morrill, A. W. Some observations on the spined soldier bug. (*Podisus maculiventris* Say.) Washington, D.C., Bull. U. S. Dept. Agric., Bur. Ent., No. **60**, 1906, (155-161). [*Hemiptera*].

Morse, Albert P. 1. New *Acriidiidae* from the southern states. Psyche, Cambridge, Mass., **13**, 1906, (119-122). [*Orthoptera*].

Morse, A. P. 2. *Melanoplus viridipes* in New England. Psyche, Cambridge, Mass., **13**, 1906, (135). [*Orthoptera*].

Morse, A. P. 3. *Nemobius palustris* Blatchley. Psyche, Cambridge, Mass., **13**, 1906, (158). [*Orthoptera*].

Morse, A. P. 4. The ecological relations of the *Orthoptera* in the Porcupine mountains, Michigan. Michigan, Rep. Geol. Surv., Lansing, **1905**, 1906, (68-72).

Morton, Kenneth J. 1. Notes on certain palaearctic species of the genus

Hemerobius, the Madeira-Canarian species allied to *H. humuli*, and other species from the same islands. Ent. Mag., London, **42**, 1903, (146-148). [*Neuroptera*.]

Morton, K. J. **2**. *Triamodes reuteri*, McLach., a species of *Trichoptera* new to Britain. Ent. Mag., London, **42**, 1906, (270).

Morton, K. J. **3**. Notes on *Trichoptera* collected in Sicily by Dr. T. A. Chapman. Entomologist, London, **39**, 1906, (105, 106).

Morton, K. J. **4**. A new species of *Adicella* from Spain. Entomologist, London, **39**, 1906, (275). [*Trichoptera*.]

Morton, K. J. **5**. On some *Trichoptera* collected in St. Kilda by Mr. Waterston. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (153).

Moser, J. **1**. Zwei neue *Valgiden*-Arten von Sarawak. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (12). [*Coleoptera*.]

Moser, J. **2**. Beschreibung neuer *Cetoniden*-Arten. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (273-280). [*Coleoptera*.]

Moser, J. **3**. Beitrag zur Kenntnis der *Cetoniden*. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (395-401). [*Coleoptera*.]

Mrazek, Al[ois]. Gründung neuer Kolonien bei *Lasius niger*. Zs. wiss. Insektenbiol., Hasum, **2**, 1906, (109-111). [*Hymenoptera*.]

Muchardt, Harold. Bidrag till Kännedom om Sveriges *Hemiptera* och deras utbredning inom landet. [Contribution to a knowledge of Sweden's *Hemiptera* and of their distribution.] Entomol. Tidskr., Stockholm, **27**, 1906, (125-128).

Müllenberger, Hubert. **1**. Beiträge zur Schmetterlingskunde des Luxemburger Landes. Fauna, Luxembourg, **11**, 1901, (420, 437), **12**, 1902, (23, 38, 102, 135, 157, 212, 258), **13**, 1903, (14, 29, 74, 88, 104, 158, 163, 179), **14**, 1904, (17, 55, 82, 95, 127, 145, 254), **15**, 1905, (20, 37, 84, 111, 197), **16**, 1906, (43, 58). [*Lepidoptera*.]

Müllenberger, H. **2**. *Saturinia pyri* Schiff. Fauna, Luxembourg, **16**, 1906, (182, 183, 217). [*Lepidoptera*.]

(s-9720 j)

Müllenberger. **3**. *Saturinia pyri* in Luxemburg. Ent. Zs., Guben, **20**, 1906, (111). [*Lepidoptera*.]

Müller, Josef. **1**. *Colcopterologische* Notizen. vi. Entomol. Ztg., Wien, **25**, 1906, (149-151).

Müller, J. **2**. Ueber den Formenkreis des *Laemostenus caricola* Schaum. Entomol. Ztg., Wien, **25**, 1906, (217-220). [*Coleoptera*.]

Müller, J. **3**. Beiträge zur Kenntnis einiger *Cerambyceiden*. Entomol. Ztg., Wien, **25**, 1906, (221-224). [*Coleoptera*.]

Müller, J. **4**. Ueber *Dorcadiou arenarium marsicanum* D'Amore und *subcarinatum* m. Entomol. Ztg., Wien, **25**, 1906, (249). [*Coleoptera*.]

Müller, J. **5**. *Cerambycidae* Dalmatiae. Wien, Verh. Zool. Bot. Ges., **1906**, (653-695). [*Coleoptera*.]

(Müller, J. **6**. Vier neue Höhlenkäfer aus dem österr. Litorale. Entomol. Ztg., Wien, **24**, 1905, (32). [4819 4827 dk 4831])

(Müller, J. **7**. Die Rassen des *Dorcadiou arenarium* Scop. Entomol. Ztg., Wien, **24**, 1905, (129-153). [4823 4831])

Müller, Julius. **3**. Beitrag zur *Coleopteren*-Fauna der Kantone St. Gallen und Appenzell. St. Gallen, Jahrb. natw. Ges., **1904**, 1905, (201-218).

Müller, Tr. Unsere Kenntnis von den *Mallophagen* (Federlingen). Danzig, Ber. bot.-zool. Ver., **28**, 1906, (1-3).

Muir, F. Notes on some Fijian insects. Honolulu, Exp. Sta. Hawaiian Sug. Pl. Ass., Div. Ent., Bull., **2**, 1906, (2 l. + 1-11, pl. i). [*Diptera* and *Stylopidae*.]

Mulot, H. *vide* Brannich, K.

Munson, John P. Spermatogenesis of the butterfly, *Papilio rutulus*. Boston, Mass., Proc. Soc. Nat. Hist., **33**, 1906, (43-124, 6 pl.). [*Lepidoptera*.]

Munthe, Henr. Om den submoräna Hernögyttjan och des älder. [On the submoraine mud of Hernö and its age.] Stockholm, Geol. För. Förh., **26**, 1901, (317-346). [*Insekter* (327).]

Muschamp, P. A. H. A new *Sphingid*: *Thaumas* hybr. *densoi* (*vespertilio* ♂ × *euphorbiae* ♀), n. hybr. Ent. Rec., London, **18**, 1906, (237, 238). [*Lepidoptera*.]

Nakagawa, Hisatomu. 1. Nikameichū Kujo no Gakusetsu ni tsuite. [On the remedies against *Jarthesia chrysographella* Moore.] Dobuts. Z., Tokyo, 18, 1906, (221-231). [*Lepidoptera*.]

Nakagawa, H. 2. Nikwasei Meichū to Sankwasei no Meichū Hasseiki wo ronzu. [On the appearance of bivoltine and trivoltine borers of rice plants.] Tokyo, Nip. Nokw. Hō, 301, 1906, (9-14). [*Lepidoptera*.]

Nason, Wm. A. 1. Parasitic *Hymenoptera* of Algonquin, Illinois. 3. Ent. News, Philadelphia, Pa., 17, 1906, (7-9).

Nason, W. A. 2. Parasitic *Hymenoptera* of Algonquin, Illinois. 4. Ent. News, Philadelphia, Pa., 17, 1906, (151-154).

Nason, W. A. 3. Parasitic *Hymenoptera* of Algonquin, Illinois. 5. Ent. News, Philadelphia, Pa., 17, 1906, (249-253).

Navás, Longinos. 1. Notas entomológicas. xiii. Sobre una pequeña colección de *Neurópteros* de Italia, reunida por el profesor Felipe Silvestri, de Portici. [Entomological notes. xiii. On a small collection of *Neuroptera* from Italy, made by Prof. Felipe Silvestri of Portici.] Madrid, Bol. Soc. esp. Hist. Nat., 6, 1906, (101-102).

Navás, L. 2. Notas Zoológicas. xi. Tres *Neurópteros* nuevos de España. [Zoological notes. xii. Three new *Neuroptera* from Spain.] Zaragoza, Bol. Soc. Arag., 5, 1906, (131-137).

Navás, L. 3. El Dr. Pedro Kempny. Zaragoza, Bol. Soc. Arag., 5, 1906, (182-185).

Navás, L. 4. Notas zoológicas. xii. Novedades zoológicas de Aragón. [Zoological notes. xii. Zoological novelties from Aragón.] Zaragoza Bol. Soc. Arag., 5, 1906, (199-213).

Navás, L. 5. *Myrmecleon nostras*. Fenille jeunes natural., Paris, 36, 1906, (168). Note rectificative, (204). [*Neuroptera*.]

Navás, L. 6. *Neurópteros* de España y Portugal. [*Neuroptera* from Spain and Portugal.] Broteria, 5, 1906, (145-184, pls. ix, x, xi).

Nawa, Yasushi. 1. Nara ringogata mosshokushibachi ni tsuite. [On the gall fly (*Dryophanta nawai*, Ashm.) on

Quercus acuta, Thunb.] Konch. Sek., Gifu, 10, 1906, (8-10). [*Hymenoptera*.]

Nawa, Y. 2. Kurikemushi ni tsuite. [On *Caligula japonica* Moore.] Konch. Sek., Gifu, 10, 1906, (63-64). [*Lepidoptera*.]

Nawa, T. 3. Sakusan ni tsuite. [On *Antherea pernyi* Guer.] Konch. Sek., Gifu, 10, 1906, (106-108). [*Lepidoptera*.]

Nawa, Y. 4. Tensanga ni tsuite. [On *Antherea yamamai* Guer.] Konch. Sek., Gifu, 10, 1906, (146-147). [*Lepidoptera*.]

Nawa, Y. 5. Aonishiki ni tsuite. [On *Actias selenae* var. *artemis* Brem.] Konch. Sek., Gifu, 10, 1906, (233-234). [*Lepidoptera*.]

Nawa, Y. 6. Azumanishiki ni tsuite. [On *Rhodia fugax* Butl.] Konch. Sek., Gifu, 10, 1906, (277-279). [*Lepidoptera*.]

Nawa, Y. 7. Shokkonishiki ni tsuite. [On *Brahmaea japonica* Butl.] Konch. Sek., Gifu, 10, 1906, (415-416). [*Lepidoptera*.]

Neave, S. A. Some bionomic notes on butterflies from the Victoria Nyanza London, Trans. Ent. Soc., 1906, (207-224, pls. ix-xii). [*Lepidoptera*.]

Neblich. *Stenolechia gemella* L. und *Pamene splendidulana* Gn. Zwei Kleinschmetterlinge auf Eichen. Forstwiss. Centralbl., Berlin, 28, 1906, (195-197 1 Taf.). [*Lepidoptera*.]

Needham, James G[eorge]. 1. The egg-laying of *Chironomus annularis*. Science, New York, N.Y., 24, 1906, (293). [*Diptera*.]

Needham, J. G. 2. The maxilla in *Rhynchophorus* *Coleoptera*. [Correction to paper on Development of the rostrum. . . by E. M. McClenahan.] Psyche, Boston, Mass., 13, 1906, (76).

Neumann, G. Note sur les *Mallophages*. Paris. Bul. soc. zool., 31, 1906, (54-60).

Neureuter, Franz. Flügelbildung bei einer Käferlarve. (*Tenebrio molitor*). Natur. u. Offenb., Münster, 52, 1906, (307-311). [*Coleoptera*.]

Neuschild, A. Die „Laterna Entomologica.“ Insektenbörse, Leipzig, 23, 1906, (81).

Neveu-Lemaire, M. 1. Etude des *Culicides* africains (mission du Bourg de Bozas en Afrique tropicale). Arch. parasit., Paris, **10**, 1906, (233-288). [*Diptera*.]

Neveu-Lemaire. 2. Sur un nouveau Nématocère africain appartenant au genre *Phlebotomus*. Paris, Bul. soc. zool., **31**, 1906, (64-67). [*Diptera*.]

(Neveu Lemaire, M. 3. Mission du Bourg de Bozas. Description d'une nouvelle espèce de *Stegomyia* rencontrée par le Dr. Brumpt à Harar. Paris, Bul. soc. zool., **30**, 1905, (8-11, av. fig.). [4231 4227 fb].)

(Neveu Lemaire. 4. Instructions relatives à la récolte de Moustiques. Paris, Bul. soc. zool., **27**, 1902, (233-237). [4203].)

Newell, Wilmon. 1. Notes upon a little-known insect enemy of cotton and corn. Washington, D.C., Bull., U. S. Dept. Agric., Bur. Ent., No. **60**, 1906, (52-58). [*Homoptera*.]

Newell, W. 2. The work of the state crop pest commission of Louisiana on the cotton boll weevil. Washington, D.C., Bull., U. S. Dept. Agric., Bur. Ent., No. **60**, 1906, (119-131). [*Coleoptera*.]

Newstead, R. 1. On the life-history of *Stomoxys calcitrans*, Linn. J. econ. Biol., London, **1**, 1906, (157-166, pl. xii). [*Diptera*.]

Newstead, R. 2. General Entomology. Liverpool Univ. Q. J. Inst. Comm. Research, Tropics, **1**, (18-23, 68-74).

Newstead, R. vide Christophers, R. S.

Niclot. Sur les Moustiques de la division d'Oran. Paris, C.-R. soc. biol., **60**, 1906, (4-6). [*Diptera*.]

Nicolas, A. *Cillenus lateralis* Sam. v. *bedeli* m. Echange, Moulins, **22**, 1906, (13). [*Coleoptera*.]

Nielsen, J. C. 1. Beiträge zur Biologie der Gattung *Cryptocampus*. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (44-47). [*Hymenoptera*.]

Nielsen, J. C. 2. [Zur Kenntnis der Parasiten der *Trichopteren*.] ii. Ueber *Hemiteles bianulatus* Grav., ein neuer *Trichopteren*-Schmarotzer. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (385-386). [*Hymenoptera*.]

Nielsen, J. C. 3. Om *Paniscus cephalotes*, Holmgr., en paa Gaffelhalm snyltende Hveps. [*Paniscus cephalotes*, Holmgr., a parasitic wasp on *Cerura vinula*.] Kjöbenhavn, Ent. Medd., Ser. **2**, **3**, 1906, (5-16, 1 pl.).

Nielsen, J. C. 4. Fortegnelse over de danske Gedehamse. [A catalogue of the true wasps in Denmark.] Kjöbenhavn, Ent. Medd., Ser. **2**, **3**, 1906, (140-141). [*Hymenoptera*.]

Nielsen, J. C. 5. Zoologische Studien über die Markflecke. [*Agromyza earbonaria* Zett.] Zool. Jahrb., Jena, Abt. f. Syst., **23**, 1906, (725-728, 1 Taf.). [*Diptera*.]

Nielsen, J. C. vide Kieffer, J. J.

Niepelt, Wilhelm. 1. *Euphaedra wissmanni* nov. spec. Ent. Zs., Guben, **20**, 1906, (25). [*Lepidoptera*.]

Niepelt, W. 2. *Xanthospilopteryx zeodita* nov. spec. Insektenbörse, Leipzig, **23**, 1906, (127). [*Lepidoptera*.]

Nieuwenhuis-von Uexküll-Güldenband, M. De schadelijke gevolgen der suikerafscheiding bij eenige myrmecophile planten. [On the harmful consequences of the secretion of sugar by certain myrmecophilous plants.] Amsterdam, Versl. Wis. Nat. Afd. K. Akad. Wet., **15**, [1903], (69-75), (Dutch); Amsterdam, Proc. Sci. K. Akad. Wet., **9**, [1903], (150-156), (English).

Nitobe, Inao. 1. Awomoriken ni okeru Heiju no Gaichu. [On *Heteroecordylus flaviceps* Mats. of apple trees in the prefecture Aomori.] Konch. Sek., Gifu, **10**, 1906, (19-22). [*Hemiptera*.]

Nitobe, I. 2. Ringo Ōzonmushi ni tsuite. [On *Hyllobius gebleri* Boh.] Konch. Sek., Gifu, **10**, 1906, (275-277). [*Coleoptera*.]

Nitobe, I. 3. Ringosuga ni tsuite. [On *Yponomeuta malinella* Zell.] Konch. Sek., Gifu, **10**, 1906, (362-363). [*Lepidoptera*.]

Noel, P. 1. La mouche de Goloubatss. Naturaliste, Paris, **28**, 1906, (13). [*Diptera*.]

Noel, P. 2. L'*Heliothobus lohi*. Naturaliste, Paris, **28**, 1906, (227). [*Lepidoptera*.]

Noel, P. 3. La *Cetonia stictica*. Naturaliste, Paris, sér. **2**, **28**, 1906, (139). [*Coleoptera*.]

Nonfried, A. F. *Coleoptera nova exotica.* II. Serie. Stettiner ent. Ztg, **67**, 1906, (215-226).

Normand, H. *Coléoptères nouveaux* appartenant à la faune française, 1^{re} Note. Paris, Bul. soc. ent., **1906**, (105-107); 2^e note, T.c. (291-293).

(**Noualhier, Maurice et Martin, Joanny.** Hémiptères recueillis par M. Pavie. Mission Pavie, **3**, 1904, (167-185, a. pl.). [4031 4027 ed])

Nowlin, W. N. A study of the spermatogenesis of *Coptocyela aurichalcea* and *Coptocyela guttata*, with especial reference to the problem of sex-determination. J. Exp. Zool., Baltimore, Md., **3**, 1906, (583-600 + 2 l., 2 pls.). [*Coleoptera.*]

Nüsslin, O[tto]. **1.** Der Fichtenborkenkäfer *Tomicus typographus* L. im Jahre 1905 in Herrenwies und Pfullen-dorf. Nachwort. Natw. Zs. landw., Stuttgart, **4**, 1906, (4-22). [*Coleoptera.*]

Nüsslin, O. **2.** Schlusswort in der Polemik gegen E. Knoche. Natw. Zs. Landw., Stuttgart, **4**, 1906, (341-344).

Nüsslin, O. **3.** Aus dem Leben der Borkenkäfer. Karlsruhe, Verh. natw. Ver., **19**, (1905-1906), 1906, Abh., (47-64). [*Coleoptera.*]

Nusbaum, Józef und Fuliński, Benedykt. Über die Bildung der Mitteldarmanlage bei *Phyllodromia (Blatta) germanica* L. Zool. Anz., Leipzig, **30**, 1906, (362-381). [*Orthoptera.*]

Oberthür, Ch[arles]. **1.** Observations sur les variations de *Polyommatus gordius* Esp. Paris, Bul. soc. ent., **1906**, (25-26). [*Lepidoptera.*]

Oberthür, C. **2.** Une nouvelle race géographique de Lycénide (*Lycena escheri-rondoni* nov. subsp.). Paris, Bul. soc. ent., **1906**, (57-58). [*Lepidoptera.*]

Oberthür, C. **3.** Description d'une espèce nouvelle de *Papilio* de l'Annam. Paris, Bul. soc. ent., **1906**, (156). [*Lepidoptera.*]

Oberthür, C. **4.** Les *Lycena amytas* et *coretas*. Feuille jeunes natural., Paris, sér. 4, **36**, 1906, (149). [*Lepidoptera.*]

Oberthür, C. **5.** Observations sur les *Neptis* à taches jaunes de la région sino-thibétaine. Etudes Lep. comp.,

fasc. **2**, 1906, (7-18, pls. viii, ix). [*Lepidoptera.*]

Oberthür, C. **6.** Description d'une nouvelle espèce d'*Apatinra*. Etudes Lep. comp., fasc. **2**, 1906, (19, 20). [*Lepidoptera.*]

Oberthür, C. **7.** Dimorphisme et Mimétisme de la femelle de *Paromia melania*. Etudes Lep. comp., fasc. **2**, 1906, (21-27). [*Lepidoptera.*]

Oberthür, C. **8.** Découverte de la *Lycæna donzelii* dans les Pyrénées-orientales, et de la *Chelonia flava* dans les Hautes-Alpes. Etudes Lep. comp., fasc. **2**, 1906, (37-40). [*Lepidoptera.*]

(**Oberthür, C.** **9.** Description d'une nouvelle espèce de *Polycaena*. Paris, Bul. soc. ent., **1903**, (268-270). [4431 4427 eb])

(**Oberthür, C.** **10.** Description d'une nouvelle espèce de Sphingides. Paris, Bul. soc. ent., **1904**, (13-14). [4431 4427 eb].)

(**Oberthür, C.** **11.** Descriptions des nouveaux Sphingides. Paris, Bul. soc. ent., **1904**, (76-79). [4431 4427 hg ef])

(**Oberthür, C.** **12.** Variations de Lépidoptères. Paris, Bul. soc. ent., **1905**, (55-59). [4423].)

Obst, P. **1.** Drei neue *Anthia*-Arten. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (164-167). [*Coleoptera.*]

Obst, P. **2.** *Buprestiden* von Deutsch Südwest-Afrika. Aus der Ausbeute von Herrn Gouverneur R. von Bennigsen. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (168-173). [*Coleoptera.*]

Oertel, Heinr. Zucht von *Epizeuxis (Helia) calvaria* F. Ent. Zs., Guben, **20**, 1906, (89); Weiteres dazu v. Richard Gilardon, T.c. (101). [*Lepidoptera.*]

Oettinger, R. Über die Drüsentaschen am Abdomen von *Periplaneta orientalis* und *Phyllodromia germanica*. Zool. Anz., Leipzig, **30**, 1906, (338-349). [*Orthoptera.*]

Okada, Tadao. Sankaku-i no Achū ni tsuite. [On the plant louse on *Scirpus lacustris* L. var. *genuinus* Gren. et Godr.] Konch. Sek., Gifu, **10**, 1906, (358-362, 411-414). [*Lepidoptera.*]

Olasz, Károly. Adalék Magyarország Orthoptera- és Neuroptera-faunájához. [Beitrag zur Orthoptera- und Neuroptera-

Fauna Ungarns.] Rovart. L., Budapest, **13**, 1906, (194-196).

Oldaker, F. A. The *Lepidoptera* of the Dorking district. Entomologist, London, **39**, 1906, (157-160, 183-187).

Olfers, E[rnst] von. Flügellose Arthropoden des Bernsteins in ihrer Beziehung zur Descendenztheorie. Königsberg, Schr. physik. Ges., **46**, (1905), 1906, (100-104).

Olivier, Ernest. 1. Sur des espèces de *Lucidota*. Paris, Bul. soc. ent., **1903**, (103-109). [*Coleoptera*.]

Olivier, E. 2. *Lampyrides* capturés par M. L. Fea dans l'Afrique occidentale. Genova, Ann. Museo Civ. st. nat., **42**, 1905-6, (235-236). [*Coleoptera*.]

Olivier, E. 3. Bou-Saada. Souvenirs d'Excursions. Rev. sci. Bourbon., Moulins, **1906**, (3-25).

Olivier, E. 4. Collections recueillies par M. Maurice de Rothschild dans l'Afrique orientale anglaise: Insectes: *Lampyrides*. Bul. Muséum, Paris, **1906**, (507, 508). [*Coleoptera*.]

(Olivier, E. 5. Essai sur la division du genre *Photinus* Casteln (*Macrolampis* Motsch). Paris, Ann. soc. ent., **74**, 1905, (311-318). [4831])

[Olsufjev, G. B.] Олсуфьевъ, Г. В. Нахожденіи *Carabus menetriesi* Humm. (*Coleoptera*, *Carabidae*) на югѣ Россіи. [Sur l'habitat du *Carabus menetriesi* Humm. dans la Russie méridionale.] Rev. russ. ent., St. Peterburg, **6**, 1906, (49-51).

Oppermann, [Theodor] vide Dammann, [Carl].

Orbigny, H. d'. 1. Description d'une espèce nouvelle d'*Onthophagus* de l'Afrique Occidentale. Leiden, Notes Mus. Jentink, **28**, [1906], (134-136). [*Coleoptera*.]

(Orbigny, H. d'. 2. Ontophagides provenant du voyage de M. Alluaud dans l'Afrique orientale et descriptions d'autres espèces africaines nouvelles. Paris, Ann. soc. ent., **74**, 1905, (381). [4831 4827].)

Ošanin, B. vide Oshanin, B.

Osborn, Herbert. 1. The species of *Cicada* related to *Tibicen*. Ent. News, Philadelphia, Pa., **17**, 1906, (321-322). [*Homoptera*.]

Osborn H. 2. Descriptions of two new *Cicadas* from Louisiana. Ohio Nat., Columbus, Ohio, **6**, 1906, (497-499). [*Homoptera*.]

Osborn, H. 3. Note on habits of *Senotainia rubricentrus* Macq. Ohio Nat., Columbus, Ohio, **7**, 1906, (38). [*Diptera*.]

Osborn, H. 4. The problem of wing origin and its significance in insect phylogeny. Science, New York, N.Y., **23**, 1906, (260).

Osborn, H. 5. The origin of the wings of insects. Columbus, Proc. Ohio Acad. Sci., **4**, 1906, (333-339).

[Osborn, H. 6. *Jassilae* of New York State. Albany, N.Y. St. Educ. Dept. Mus. Bull., **97**, Entomology, **24**, 1905, (493-545). [*Homoptera*.]]

(Osborn, H. 7. Note on morphology of certain clasping organs in the *Pediulidae*. Ohio Nat., Columbus, Ohio, **4**, 1904, (107-108, with text fig.). [3607 3631].)

Osburn, Raymond C[arroll]. Observations and experiments on dragon-flies in brackish water. Amer. Nat., Boston, Mass., **49**, 1906, (395-399). [*Odonata*.]

Oshanin, B. 1. Verzeichnis der paläarktischen *Hemipteren* mit besonderer Berücksichtigung ihrer Verteilung im Russischen Reiche. I. Bd. *Heteroptera*. I. Lief. *Pentatomidae*-*Lygaeidae*. St. Peterburg, Ann. Mus. Zool. Ac. Sc., **11**, 1906, Beilage (lxxiv + 393).

Oshanin, B. 2. Verzeichnis der paläarktischen *Hemipteren* mit besonderer Berücksichtigung ihrer Verteilung im Russischen Reiche. II. Band. *Homoptera*, I Lief. St. Peterburg, Ann. Mus. Zool. Ac. Sc., **11**, 1906, Beilage, (1-192).

Osten Sacken, Baron C. R. von. [Obituaries] vide Bryan, G. H. and Verrall, G. H.

Otte, Heinrich. 1. Samenreifung und Samenbildung von *Locusta viridissima*. I. Die Samenreifung. Zool. Anz., Leipzig, **30**, 1906, (529-535). [*Orthoptera*.]

Otte, H. 2. Samenreifung und Samenbildung bei *Locusta viridissima*. 2. Samenbildung. Zool. Anz., Leipzig, **30**, 1906, (750-754). [*Orthoptera*.]

Otto, H. 3. Die Reifungsvorgänge der männlichen Geschlechtszellen von *Locusta viridissima*. Verh. D. zool. Ges., Leipzig, **16**, 1906, (262). [*Orthoptera*.]

Oudemans, A[ntonio] C[ornelis]. 1. Aanteekeningen over Suctoria ii. [Notizen über Suctoria ii.] 's Gravenhage, Ber. Ned. Ent. Ver., **2**, 1906, (73-77). [*Aphaniptera*.]

Oudemans, A. C. 2. Aanteekeningen over Suctoria iii. [Notizen über Suctoria iii.] 's Gravenhage, Ber. Ned. Ent. Ver., **2**, 1906, (101-105). [*Aphaniptera*.]

Oudemans, A. C. 3. Mededeelingen over *Hymenoptera*, *Gryllidae*, Acari en Suctoria. [Mitteilungen über *Hymenoptera*, *Gryllidae*, Acari und Suctoria.] 's Gravenhage, Tijdschr. Ent., **49**, 1906, (1-lix).

Oudemans, A. C. 4. Aanteekeningen over Suctoria [Notizen über Suctoria v.] 's Gravenhage, Ber. Ent. Ned., **2**, 1906, (131-134).

Oudemans, J. Th. 1. In memoriam Dirk Ter Haar. 's Gravenhage, Tijdschr. Ent., **49**, 1906, (1-7, port.).

Oudemans, J. Th. 2. *Orthesia urticae* in den Nederlanden. 's Gravenhage, Tijdschr. Ent., **49**, 1906, (xlvii). [*Coccidae*.]

Pabst. Die *Noctuidae* der Umgegend von Chemnitz und ihre Entwicklungsgeschichte. A. Acronyctinae. Ent. Jahrb., Leipzig, **15**, 1906, (84-93). [*Lepidoptera*.]

Paiva, C[harles] A[lexander]. Notes on some rare and interesting Insects added to the Indian Museum collection during the year 1905-06. Calcutta, J. As. Soc. Beng., **2**, 1906, (345-358).

Paiva, C[harles] A[lexander] vide Annandale, N[elson].

Palmer, Miriam A. On the dorsal glands as characters of constant specific value in the *Coccid* genus *Parlatoria*. Lawrence, Kan. Univ. Sci. Bull., **3**, 1906, (131-146, pls. xxiii-xxviii).]

(Pandellé, Louis. 1. Etude sur les Muscides de France. Rev. ent., Caen, 3^e Partie, **1898-1904**, (pagination spéciale, 492). [4227 df 4231].)

(Pandellé, L. 2. Catalogue des Muscides de France. Rev. ent., Caen, **1904**, (pagination spéciale, 41). [4227 df 4231].)

(Pandellé, L. 3. Note sur le *Cheilosia* de France (Syrphides). Rev. ent., Caen, **24**, 1905, (25-44). [4227 df 4231].)

(Pandellé, L. 4. Contribution à l'étude du genre *Asilus*. Rev. ent., Caen, **24**, 1905, (44-98). [4231].)

Pangella, Giorgina. Spedizione al Ruwenzori di S. A. Luigi di Savoia. Nuova specie di *Passalidi*. Torino, Boll. Musei zool. anat., **21**, No. **540**, 1906, (1). [*Coloptera*.]

Paoli, Guido. Due casi di ginandromorfismo nei *Forficulidi*. Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (203-206). [*Orthoptera*.]

Paoli, G. vide Berlese A.

Pauly, August. Borkenkäfer-Studien, IV. Zuchtversuche mit *Tomieus typographus* in künstlichem tropischem Klima. Natw. Zs. Landw., Stuttgart, **4**, 1906, (160-164). [*Coloptera*.]

Pawlowski, E. Ueber den Stech- und Saugapparat der *Pediculiden*. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (156-162, 198-204).

Pearsall, Richard F. 1. *Harrisimemna trisignata* Walk. Ent. News, Philadelphia, Pa., **17**, 1906, (21-23). [*Lepidoptera*.]

Pearsall, R. F. 2. List of *Geometridae* collected on the Museum expeditions to Utah, Arizona and Texas, with descriptions of new species. Brooklyn, N.Y., Mus. Inst. Arts Sci., Bull., **1**, 1906, (203-220). [*Lepidoptera*.]

Pearsall, R. F. 3. What *Euchoccea comptaria* Walk. really is. Canad. Entomol., **38**, 1906, (33-38). [*Lepidoptera*.]

Pearsall, R. F. 4. Another Geometrid tangle. Canad. Entomol., **38**, 1906, (70, 71, 118-120). [*Lepidoptera*.]

(Peckham, George Williams. Wasps, social and solitary. With an introduction by John Burroughs. Boston and New York (Houghton, Mifflin), 1905, (xv + 311, with front., illustr.). 19.5 cm. [4619 4631].)

Penberthy, John. Parasites of Cattle and Sheep. London, J. R. Agric. Soc., **67**, 1906, (64-97).

Peneau, Joseph. 1. *Coléoptères* de la Loire-Inférieure. Nantes, Bul. soc. sci. nat., sér. 2, **6**, 1906, (113-176).

(Peneau, J. 2. Excursions entomologiques sur le littoral de l'embouchure de la Loire. Nantes, Bul. soc. sci. nat., (sér. 2), **5**, 1905, (1-12). [4827 *df*].)

Peneau, J. *vide* Guérin, J.

(Penecke, K. A. Coleopterologische Miscellen. II. Entomol. Ztg., Wien, **20**, 1901, (11-21). [4831].)

Penther, Arnold und Zederbauer, Emerich. Ergebnisse einer naturwissenschaftlichen Reise zum Erdschias-Dagh (Kleinasien). 1. Zoologischer Teil. Wien, Ann. Nat. Hist. Hofmus., **20**, 1905, (99-310, pls. iii-x). [Insecta by Werner, F.; Bischof, Joseph; Horváth, G.; Rebel, H.; Kohl, Franz Friedr.; Ganglbauer, Ludwig; *qq. vide*.]

Pergande, Theo. Description of two new genera and three new species of *Aphididae*. Ent. News, Philadelphia, Pa., **17**, 1906, (205-210).

(Péringuey, L. Description d'une Cicindèle nouvelle. Paris, Bul. soc. ent., **1903**, (338-339). [4831 4827 *fg*].)

Perkins, R. C. L. 1. Leaf-hoppers and their natural enemies. (Introduction.) Honolulu, Exp. St. Hawaiian Sug. Plant. Ass., Div. Ent., Bull., No. **1**, 1906, (31. + i-xxxii).

Perkins, R. C. L. 2. Leaf-hoppers and their natural enemies. (Pt. 8. *Enebridae*, *Eulophidae*, *Trichogrammidae*). Honolulu, Exp. Sta. Hawaiian Sug. Pl. Ass., Div. Ent., Bull., **1**, 1906, (11. + 239-267, pls. xviii-xx). [*Hymenoptera*.]

Perkins, R. C. L. 3. Leaf-hoppers and their enemies. (Pt. 10. *Dryinidae*, *Pipunculidae*). Supplementary. Honolulu, Exp. Sta. Hawaiian Sug. Pl. Ass., Div. Ent., Bull. No. **1**, 1906, (11. + 481-499, pls. xxxiii-xxxviii).

Perkins, R. C. L. 4. Entomological and other notes on a trip to Australia. Honolulu, Proc. Hawai. ent. Soc., **1**, (8-11).

Perkins, R. C. L. 5. Notes on a collection of butterflies made during a recent trip to Australia. Honolulu, Proc. Hawai. ent. Soc., **1**, 1906, (23-25). [*Lepidoptera*.]

Perkins, R. C. L. 6. The insects of Tantalus. Honolulu, Proc. Hawai. ent. Soc., **1**, 1906, (38-51).

Perkins, R. C. L. 7. A new method of relaxing and cleaning specimens. Honolulu, Proc. Hawai. ent. Soc., **1**, (52).

Perkins, R. C. L. 8. Notes on Hawaiian wasps, with descriptions of new species. Honolulu, Proc. Hawai. ent. Soc., **1**, 1906, (61-74). [*Hymenoptera*.]

Perkins, R. C. L. 9. Note on *Tomocera*, a genus of scale-bug parasites, with description of a new species. Honolulu, Proc. Hawai. ent. Soc., **1**, 1906, (75, 76). [*Hymenoptera*.]

Perlini, Renato. Forme di *Lepidotteri* esclusivamente italiane. Bergamo, 1905, (1-79, pls. i-vi). Large 4to.

Perrone, Eugenio. Sui costumi delle larve delle zanzare del genere *Anopheles* in relazione con le bonifiche idrauliche. iii. Memoria. Roma, Atti Soc. studi malaria, **4**, 1903, (49-58). iv. Mem., T.c. **5**, 1905, (49-64). [*Diptera*.]

Petch, T[homas]. The fungi of certain Termite nests (*Termes redemanni* Wasm. and *Termes obscuriceps* Wasm.). Ceylon, Ann. R. Bot. Gard., **3**, pt. ii, 1906, (185-270, pls. v to xxi). [*Neuroptera*.]

Petersen, Esben. 1. Some remarks on Otto Frederik Müller's descriptions of the Danish *Odonata*, with certain corrections as to synonymy. Ent. Mag., London, **42**, 1906, (251-254).

Petersen, E. 2. *Neuroptera* Danica, *Planipennia*. (Danish) Kjöbenhavn, Ent. Medd., Ser. 2, **3**, 1906, (21-49).

Petersen, E. 3. Notitser om danske Orthopterer og Neuropterer. [Some remarks on the Danish *Orthoptera* and *Neuroptera*.] Kjöbenhavn, Ent. Medd., Ser. 2, **3**, 1906, (134-139).

Petersen, Wilhelm. Zur Anatomie einiger centralasiatischer Schmetterlinge. St. Petersburg, Hor. Soc. Ent. Ross., **37**, 1906, (347-351, Taf.). [*Lepidoptera*.]

Petri, Karl. 1. *Malthodes serbotae* n. sp., ein neuer *Malthodes* des Subgenus *Podistrella* Seidl. aus den transsilvanischen Alpen. Entomol. Ztg., Wien, **25**, 1906, (224-225). [*Coleoptera*.]

Petri, K. 2. Zwei neue russische *Lixus*-Arten (*Coleoptera*, *Curculionidae*). Rev. russ. ent., St. Petersburg, **6**, 1906, (64-66).

(Petri, K. 3. Bestimmungs-Tabelle der mir bekannt gewordenen Arten der Gattung *Lixus* Fab. aus Europa und den angrenzenden Gebieten. Entomol. Ztg., Wien, **23**, 1904, (183-198), **24**, 1905, (33-48, 101-116, 155-167). [4827 d e 4831].)

(Pettit et Krohn. Sur la structure de la glande salivaire du Notonecte. Paris, Arch. anat. microsc., **7**, 1904, (351-368, av. 1 pl.). [4007 4031].)

Peyerimhoff, P. de. 1. Recherches sur la faune cavernicole des Basses-Alpes. Paris, Ann. Soc. ent., **75**, 1906, (203-222).

Peyerimhoff, P. de. 2. Considérations sur les origines de la faune souterraine. Paris, Ann. Soc. ent., **75**, 1906, (223-233).

Peyerimhoff, P. de. 3. Nouveaux Coléoptères du Nord-Africain (2^e et 3^e Notes). Paris, Bul. soc. ent., **1905**, (37-39, 55-57).

Peyerimhoff, P. de. 4. Sur quelques larves de Coléoptères cavernicoles. Paris, Bul. soc. ent., **1906**, (109-118, 162).

(Peyerimhoff, P. de. 5. Description d'un nouveau Silphide cavernicole de l'Ardèche. Paris, Bul. soc. ent., **1904**, (185-186). [4831 4827 df].)

(Peyerimhoff, P. de. 6. Coléoptères cavernicoles inédits recueillis dans les Basses-Alpes. Première note: *Carabidae*. Paris, Bul. soc. ent., **1904**, (201-203, av. fig.). [4831 4827 df].)

(Peyerimhoff, P. de. 7. Coléoptères cavernicoles inédits recueillis dans les Basses-Alpes. Deuxième note: *Psyllaphidae* et *Silphidae*. Paris, Bul. soc. ent., **1904**, (214-216). [4831 4827 df].)

(Peyerimhoff, P. de. 8. Découverte en Algérie des genres *Acidota* Steph et *Cylindropsis* Fvl. Paris, Bul. soc. ent., **1905**, (180-187). [4831 4827 fa].)

(Peyerimhoff, P. de. 9. Nouveaux coléoptères du Nord-Africain. Paris, Bul. soc. ent., **1905**, (229-230). [4831 4827 fa].)

(Peyerimhoff, P. de. 10. Etude sur les *Bathyscia* du groupe d'*Aubei* Kiesw. Paris, Bul. soc. ent., **1905**, (297-305). [4831].)

Pfankuch, K. Die Typen der Gravenhorstschen Gattungen *Mesoleptus* und *Tryphon*. (Fortsetzung.) Zs. Hymeno-

pter., Teschendorf, **6**, 1906, (81-96, 217-224, 289-296 incomplete). [*Hymenoptera*.]

Pfätzner, R. 1. Zwei neue *Hepialiden* aus Süd-Amerika. D. ent. Zs. Iris, Berlin, **18** (1905), 1906, (276-277). [*Lepidoptera*.]

Pfätzner, R. 2. Eine neue Localvarietät von *Araschnia prorsa* L. [var. *schantzi* n.]. D. ent. Zs. Iris, Berlin, **18**, (1905), 1906, (277). [*Lepidoptera*.]

Pfätzner, R. 3. Die *Macrolepidopteren* der Sprottauer Gegend. Nachtrag zum 1. Teil. D. ent. Zs. Iris, Berlin, **19**, 1906, (51-54).

Philipstschenko, Jur. 1. Anatomische Studien über *Collembola*. Zs. wiss. Zool., Leipzig, **85**, 1906, (270-304, 2 Taf.).

[Philipstschenko, Jur.] 2. Филиппченко, Ю. А. О происхождении жирового тела и нефроцитов у Arthropoda. [Ueber die Abstammung des Fettkörpers und der Nephrocyten bei den Arthropoden.] St. Petersburg, Trav. Soc. nat., **37**, 1, 1906, (242-255); deutsches Rés., (270-272).

Phillips, Everett F[ranklin]. The habits of the bee and some misapprehensions. Pennsylvania, Rep. Dept. Agric., Harrisburg, **11**, (1905), 1906, (679-691). [*Hymenoptera*.]

Philpott, A. Notes on the vegetable caterpillar of New Zealand. Entomologist, London, **39**, 1906, (175). [*Lepidoptera*.]

(Phisalix, C. 1. Recherches sur le venin des abeilles. Paris, Bul. soc. ent., **1904**, (218-221). [4631 4611].)

(Phisalix, C. 2. Sur la présence du venin dans les oeufs d'abeilles. Paris, Bul. soc. ent., **1905**, (201-203). [4631 4615].)

Pic, Maurice. 1. Description de nouveaux Coléoptères. Naturaliste, Paris, **28**, 1906, (175-176).

Pic, M. 2. Diagnoses de Coléoptères exotiques nouveaux. Naturaliste, Paris, **28**, 1906, (282, 283).

Pic, M. 4. Description de Coléoptères récoltés dans l'Afrique orientale par M. M. de Rothschild et donnés par lui au Muséum. Bul. Muséum, Paris, **1906**, (21-24).

Pic, M. 5. Un nouvel *Anthicus* du Turkestan. Paris, Bul. soc. ent., **1906**, (46-47). [*Coleoptera*.]

Pic, M. 6. Notes synonymiques ou rectificatives. Paris, Bul. soc. ent., **1906**, (47-48, 293-295). [*Coleoptera*.]

Pic, M. 7. Un nouveau *Caryoborus* de Cochinchine. Paris, Bul. soc. ent., **1906**, (58-59). [*Coleoptera*.]

Pic, M. 8. Deux nouveaux *Anthicus* de Kashmir. Paris, Bul. soc. ent., **1906**, (78-79). [*Coleoptera*.]

Pic, M. 9. A propos de *Athous undulatus* de Geer. Paris, Bul. soc. ent., **1906**, (118-119). [*Coleoptera*.]

Pic, M. 10. Sur *Crioceris asparagi* L. et ses variétés. Paris, Bul. soc. ent., **1906**, (119-123). [*Coleoptera*.]

Pic, M. 11. A propos des *Formicomus hauseri* Pic et *F. sterbae* Reitter. Paris, Bul. soc. ent., **1906**, (175-176). [*Coleoptera*.]

Pic, M. 12. Sur divers *Heliotaurus* Muls. Paris, Bul. soc. ent., **1906**, (186-187). [*Coleoptera*.]

Pic, M. 13. Deux nouveaux *Malacodermes* de Chine. Paris, Bul. soc. ent., **1906**, (217-218). [*Coleoptera*.]

Pic, M. 14. Sur divers *Ptinides* et *Anobiides*. Paris, Bul. soc. ent., **1906**, (227-228). [*Coleoptera*.]

Pic, M. 15. *Anthicides* et *Ptinides* d'Algérie et de Tunisie récoltés par le capitaine Vibert. Paris, Bul. soc. ent., **1906**, (282-285). [*Coleoptera*.]

Pic, M. 16. *Coléoptères* exotiques nouveaux. Paris, Bul. soc. zool., **31**, 1906, (61-62).

Pic, M. 17. Nouveaux *Coléoptères* d'Europe, Asie, Afrique et Amérique. Echange, Moulins, **22**, 1906, (1-5, 9-12).

Pic, M. 18. Contribution à l'étude du genre *Xamerpus* Fairmaire. Echange, Moulins, **22**, 1906, (6-8). [*Coleoptera*.]

Pic, M. 19. Deux nouveaux *Coléoptères* d'Espagne. Echange, Moulins, **22**, 1906, (12-13).

Pic, M. 20. Note sur *Athous (Harminius) undulatus* de Geer. Echange, Moulins, **22**, 1906, (14-16). [*Coleoptera*.]

Pic, M. 21. Etude synoptique sur les *Malthinus* Latr. de France. Echange,

Moulins, **22**, 1906, (16, 22-24, 30-32). [*Coleoptera*.]

Pic, M. 22. *Coléoptères* européens, algériens et asiatiques nouveaux. Echange, Moulins, **22**, 1906, (17-20).

Pic, M. 23. Deux nouveaux *Ptinidae* de la Guadeloupe. Echange, Moulins, **22**, 1906, (21-22). [*Coleoptera*.]

Pic, M. 24. Habitats et descriptions de divers *Coléoptères* paléarctiques. Echange, Moulins, **22**, 1906, (25-27, 33-35, 41-42).

Pic, M. 25. Contribution à l'étude des *Pyrochroides*. Echange, Moulins, **22**, 1906, (28-30).

Pic, M. 26. *Coléoptères* exotiques nouveaux ou peu connus. Echange, Moulins, **22**, 1906, (35-36, 55-56, 57-58).

Pic, M. 27. Les *Idgia* Cast. de Java et Sumatra. Echange, Moulins, **22**, 1906, (42-43). [*Coleoptera*.]

Pic, M. 28. *Coléoptères* en partie nouveaux provenant de Persé et des régions avoisinantes. Echange, Moulins, **22**, 1906, (49-51).

Pic, M. 29. Sur divers *Maronius* et genres voisins de l'Amérique méridionale. Echange, Moulins, **22**, 1906, (51-52). [*Coleoptera*.]

Pic, M. 30. Etude dichotomique sur le genre *Hypoglyptus* Gersth. Echange, Moulins, **22**, 1906, (58-59, 67-69). [*Coleoptera*.]

Pic, M. 31. Sur divers *Coléoptères* paléarctiques nouveaux, rares ou peu connus. Echange, Moulins, **22**, 1906, (65-67).

Pic, M. 32. Petite excursion entomologique à la station de Les Salines (Algérie). Echange, Moulins, **22**, 1906, (73-75). [*Coleoptera*.]

Pic, M. 33. Noms nouveaux et diagnoses de *Cantharini* (Téléphorides) européens et exotiques. Echange, Moulins, **22**, 1906, (81-85, 89-93). [*Coleoptera*.]

Pic, M. 34. Notes entomologiques diverses. Echange, Moulins, **22**, 1906, (85-86). [*Coleoptera*.]

Pic, M. 35. Deux *Silis* africains nouveaux. Echange, Moulins, **22**, 1906, (88). [*Coleoptera*.]

Pic, M. 36. Un nouveau *Malacoderme* de Sicile (*Cantharis sicula*)

Naturalista sicil., Palermo, **18**, 1906. (197-198). [*Coleoptera.*]

Pic, M. 37. *Hylophilus* nouveau des Iles du Cap Vert. Genova, Ann. Museo Civ. st. nat. **42**, 1905-6, (231). [*Coleoptera.*]

Pic, M. 38. *Anthicidae* nouveaux de la République Argentine. Rev. Mus. La Plata, **11**, 1904, (329-331). [*Coleoptera.*]

[**Pic, M. 39.** Énumération des *Longicornes* recueillies en Asie par M. de Morgan. Bul. Muséum, Paris, **1905**, (390-393). [*Coleoptera.*]]

Pic, M. 40. Un nouveau Malacoderme de l'Afrique australe. Paris, Bul. soc. ent., **1904**, (12-13). [4831 4827 fg])

Pic, M. 41. Descriptions de Coléoptères nouveaux de Madagascar. Paris, Bul. soc. ent., **1904**, (72-73). [4831 4827 fh])

Pic, M. 42. Description d'un *Anthicus* nouveau de l'Amérique méridionale. Paris, Bul. soc. ent., **1904**, (118-119). [4831 4827 hi])

Pic, M. 43. Coléoptères asiatiques nouveaux. Paris, Bul. soc. ent., **1904**, (287-289). [4831 4827 e])

Pic, M. 44. Description d'un *Cardiophorus* Eschsch de Syrie. Paris, Bul. soc. ent., **1904**, (298-299). [4831 4827 ei])

Pic, M. 45. Notices entomologiques diverses. Paris, Bul. soc. ent., **1905**, (47-48). [4831])

Pic, M. 46. Description de deux *Anthicidae* nouveaux. Paris, Bul. soc. ent., **1905**, (99-100). [4831])

Pic, M. 47. Notes sur le genre *Adoretus* Lap. et description d'une espèce de ce genre. Paris, Bul. soc. ent., **1905**, (199-201). [4831 4827 ei])

Pic, M. 48. Mélyride africain nouveau. Paris, Bul. soc. ent., **1905**, (303-304). [4831])

Pic, M. 49. Contribution à l'étude générale des *Hylophilidae* (2 partie). Paris, Ann. soc. ent., **74**, 1905, (181-286). [4831])

Pic, M. 50. Sur les Buprestides principalement paléarctiques du Genre de Wytman. Paris, Bul. soc. zool., **29**, 1904, (134-138). [4831])

Pic, M. 51. Observations et renseignements complémentaires sur le genre *Insectorum* (*Phytophaga*). Paris, Bul. soc. zool., **30**, 1905, (39-40). [4831])

Pic, M. 52. Les *Dasycerus* algériens. Rev. ent., Caen, **24**, 1905, (101-103). [4827 fa 4831])

Pic, M. 53. Etude dichotomique sur divers Anobiides pouvant rentrer dans le genre *Petalium* Lec. (*Rhadine* Baudi). Rev. ent., Caen, **24**, 1905, (185-189). [4831])

Pic, M. 54. Coléoptères (*Anthicidae*). Mission Pavie, **3**, 1904, (109-110). [4831 4827 ed])

Picard, F. Sur les changements de coloration chez les mâles de quelques Libellules. Paris, Bul. soc. ent., **1906**, (166-167). [*Odonata.*]

Pickett, C. P. 1. *Polyommatus corydon*. Varieties and aberrations. London, Trans. City Nat. Hist. Soc., **1905**, (46-52). [*Lepidoptera.*]

Pickett, C. P. 2. Further notes on *Angerona prunaria*. London, Trans. City Nat. Hist. Soc., (59-61). [*Lepidoptera.*]

Pictet, A. Contribution à l'étude de la variation des Papillons. Verh. schweiz. natf. Ges., Aarau, **88**, 1906, (255-262). [*Lepidoptera.*]

Piepers, [Marinus Cornelis] et Snellen, [Pieter Cornelis Tobias]. Énumération des lépidoptères hétérocères de Java [vii]. 's Gravenhage, Tijdschr. Ent., **49**, 1906, (29-43).

Pierce, F. N. Notes on hybrid *Notodonta ziezac-dromedarius*. Entomologist, London, **39**, 1906, (122-124). [*Lepidoptera.*]

Piéron, H. 1. Le rôle de l'olfaction dans la reconnaissance des fourmis. Paris, C.-R. Acad. sci., **143**, 1906, (845-848). [*Hymenoptera.*]

Piéron, H. 2. Généralité du processus olfactif de reconnaissance chez les Fourmis. Paris, C.-R. soc. biol., **61**, 1906, (385-387). [*Hymenoptera.*]

Piéron, H. 3. Exceptions et variations dans le processus olfactif de reconnaissance chez les Fourmis. Paris, C.-R. soc. biol., **61**, 1906, (433-435). [*Hymenoptera.*]

Piéron, H. 4. Le mécanisme de la reconnaissance chez les Fourmis. Rôle des données olfactives. Paris, C.-R. soc. biol., **61**, 1906, (471-473). [*Hymenoptera*.]

Pierre. 1. Biologie de *Tettigonia viridis* L. et de *Anagrus atomos* L. Remarques cécidologiques. Rev. sci. Bourbon., Moulins, **1906**, (77-82, 117-121).

(**Pierre. 2.** Sur l'éclosion des oeufs de *Lestes viridis* van der L. Paris, Bul. soc. ent., **1904**, (30-31). [3831 3815].)

Pionneau, Paul. Hémiptères intéressants pour la faune française et le *Nabis boops* nouveau pour la Bretagne. Feuille jeunes natural., Paris, sér. 4, **36**, 1906, (78-79).

Pitarque, Joaquin de. *Colémbolos* de Zaragoza. Zaragoza, Bol. Soc. Arag., **5**, 1906, (97-100).

Planet, L. 1. Note sur la nymphe du *Solenius vagus* Lin. Naturaliste, Paris, **28**, 1906, (187, 188). [*Hymenoptera*.]

Planet. 2. Coléoptères cavernicoles de la grotte de Saint-Mesme (Isère). Paris, Bul. ass. franç. avanc. sci., **1904**, No. 9, (265).

Planet, L. 3. Observations sur la larve et la nymphe du Procruste chagriné. Naturaliste, Paris, **28**, 1906, (11-12). [*Coleoptera*.]

(**Planet, L. 4.** Description d'un Lucanide nouveau. Naturaliste, Paris, **27**, 1905, (212-213, av. fig.). [4831].)

(**Planet, L. 5.** Araignées et Forficules. Naturaliste, Paris, **27**, 1905, (239-240). [3819].)

Plateau, Félix. 1. Le Macroglosse. Observations et expériences. Bruxelles, Mem. Soc. ent. Belgique, **12**, 1906, (141-180). [*Lepidoptera*.]

Plateau, F. 2. Note sur l'emploi de réceptifs en verre dans l'étude des rapports entre les insectes et les fleurs. Bruxelles, Bul. Acad. roy., **1906**, (741-775).

Plateau, Félix. 3. Les fleurs artificielles et les insectes. Nouvelles expériences et observations. Bruxelles, Mem. Acad. roy., sér. 2, **1**, 1906, (3-103).

Popovici-Bazosanu, A. 1. Contributions à l'étude de l'organisation des

larves des *Ephémérines*. Arch. zool. Paris, sér. 4, **5**, 1906, Notes et revue, (lxvi-lxxviii).

Popovici-Bazosanu, A. 2. Sur l'existence des vaisseaux sanguins caudaux chez les *Ephémérines* adultes. Paris, C.-R. soc. biol., **60**, 1906, (1049-1050).

Poppius, B. 1. Om några finska *Crepidodera*-arter. [Some Finnish *Crepidodera*.] Helsingfors, Medd. Soc. Fauna Fl. Fenn., **31**, 1906, (71-73). [*Coleoptera*.]

Poppius, B. 2. Tvenne *lepidoptero-logiska* meddelanden. [Two lepidopterological communications.] Helsingfors, Medd. Soc. Fauna Fl. Fenn., **32**, 1906, (12, 13).

Poppius, B. 3. Degenom handelsvaror till Finland imposterade skalbagarna. [*Coleoptera* imported to Finland.] Helsingfors, Medd. Soc. Fauna Fl. Fenn., **32**, 1906, (76-82).

Poppius, B. 4. Zwei neue paläarktische *Carabiden*. Entomol. Ztg. Wien, **25**, 1906, (213-215). [*Coleoptera*.]

Poppius, B. 5. Eine neue Art der Gattung *Hydaticus* Leach. (*Coleoptera*, *Dytiscidae*) aus der nördlichen Mandshurei. Rev. russ. ent., St. Petersburg, **6**, 1906, (58-59).

Poppius, B. 6. Beiträge zur Kenntniss der *Lepidopteren*-Fauna der Halbinsel Kanin. Helsingfors, Acta Soc. Fauna Fl. Fenn., **28**, No. 3, 1906, (1-11, 1 pl.).

Poppius, B. 7. Zur Kenntnis der Pterostichen-Untergattung *Cryobius* Chand. Helsingfors, Acta Soc. Fauna Fl. Fenn., **28**, No. 5, 1906, (1-280, 1 map).

Poppius, B. 8. Beiträge zur Kenntniss der Arten der Pterostichen-Untergattung *Deridus* (Tschitsch). Helsingfors, Öfvers. F. Vet. Soc., **47**, 1905, No. 3, (1-6). [*Coleoptera*.]

Poppius, B. 9. Beiträge zur Kenntniss der *Coleopteren*-Fauna des Lena-Thales in Ost-Sibirien. 1. *Halipidae* und *Dytiscidae*. Helsingfors, Öfvers. F. vet. Soc., **47**, 1905, No. 16, (1-24).

[**Poppius, B. 10.** Contributions to the knowledge of the *Coleopterous* fauna of the Shetland- and Orkney-islands. Helsingfors, Öfvers. F. vet. Soc., **47**, 1905, No. 17, (1-19).]

Poppius, B. 11. Beiträge zur Kenntniss der *Coleopteren*-Fauna des Lena-

Thales in Ost-Sibirien. II. *Cicindelidae* u. *Carabidae*. Helsingfors, Öfvers. F. Vet. Soc., **48**, 1906, No. 3, (1-65).

Poppius, B. 12. Beiträge zur Kenntnis der *Coleopteren*-Fauna des nordöstlichen europäischen Russlands. I. *Carnivora*, *Brachelytra*, *Silphidae* und *Corylophidae*. St. Petersburg, Ann. Mus. Zool. Ac. Sc., **10**, 1905, [1907], (302-315).

Poppius, B. 13. Verzeichnis der von Herrn O. Herz während der russischen Mammuth-Expedition im Jahre 1901 gesammelten *Pterostichini* und *Amarini*. (*Coleoptera*, *Carabidae*.) St. Petersburg, Ann. Mus. Zool. Ac. Sc., **10**, 1905, (201-209).

Porritt, G. T. Melanism in *Lepidoptera*. Naturalist, London, **1906**, (302, 303).

Porta, Antonio. Revisione degli *Stafilinidi* italiani. II Parte. *Trichophyini*, *Habrocerini*, *Tachyporini*. Riv. Coleotter. ital., Camerino, **4**, 1906, (32-47, 65-72, 119-143).

Portevin, G. 1. Troisième note sur les *Silphides* du Muséum. Bul. Muséum, Paris, **1905**, (418-424). [*Coleoptera*.]

Portevin, G. 2. Insectes: *Coléoptères Silphides*. Collections de M. J. de Morgan, (1904-1905), recueillies en Perse et données au Muséum d'Histoire naturelle de Paris. Bul. Muséum, Paris, **1906**, (335-336).

[**Porčinskij, J. A.** 1. Порчинский, I. A. Слѣпши (*Tabanidae*) и простѣйшіе способы ихъ уничтоженія. Изд. 3-е. [Die Bremsen (*Tabanidae*) und die einfachsten Mittel zu ihrer Bekämpfung. 2-te Aufl.] Trd. B. entom. učen. Kom. M. Zeml., St. Peterburg, **2**, 8, 1906, (1-49, mit 19 Fig.). [*Diptera*.]

[**Porčinskij, J. A.** 2. Порчинский, I. A. Малярійный Комаръ (*Anopheles clariger* F.) въ связи съ болотной лихорадкой, его жизнь, свойства и способы борьбы. Изд. 2-ое. [Die Malaria-Mücke (*Anopheles clariger* F.) im Zusammenhang mit dem Sumpffieber, deren Leben, Eigenschaften und Bekämpfung. 2-te Aufl.] Trd. B. entom. učen. Kom. M. Zeml., St. Peterburg, **5**, 1, 1906, (1-135, 1, mit 73 Fig.). [*Diptera*.]

[**Porčinskij, J. A.** 3. Порчинский, I. A. Русскій оводъ (*Rhinoestrus purpureus* Br.) паразитъ лошади,

выпраскивающий личинокъ въ глаза людей. [Ueber die russische Pferdebiestfliege (*Rhinoestrus purpureus* Br.), welche ihre Larven in die Augen der Menschen spritzt.] Trd. B. entom. učen. Kom. M. Zeml., St. Peterburg, **6**, 6, 1906, (1-41, mit 1 Taf.). [*Diptera*.]

[**Pospëlov, V.** Поспëловъ, В. Наблюденія надъ образомъ жизни свекловичнаго долгоносика и полевые опыты по борьбѣ съ нимъ въ 1905 году. [Beobachtungen über die Lebensweise des punktblüchigen Hohlrüsslers und Versuche zu dessen Bekämpfung im Freien im Jahre 1905.] Věst. sacharn. promysl., Kiev, **7**, 1906, 1, (236-244, 275-283, 331-342). [*Coleoptera*.]

(**Poujade, G. A.** *Lépidoptères recueillis par M. A. Pavie en Indo-Chine. Mission Pavie*, **3**, 1904, (222-251). [4131 4127 ed].)

Poulot, D. Sur la *Vanessa lerana* (variété *prosa*). Feuille jeunes natural., Paris, **36**, 1906, (180). [*Lepidoptera*.]

Poulton, Edward B. 1. Mimetic forms of *Papilio dardanus* (*merope*) and *Aeraca johnstoni*. London, Trans. Ent. Soc., **1906**, (281-321, pls. xvii-xxii). [*Lepidoptera*.]

Poulton, Edward B. 2. Predaceous insects and their prey. London, Trans. Ent. Soc., **1906**, (323-409).

Poulton, Edward B. 3. A note on the cryptic resemblance of two South American insects, the moth *Dracenta rusina* Druce, and the Locustid *Plagioptera bicordata* Serv. London, Trans. Ent. Soc., **1906**, (533-539, pl. xxxi).

(**Poulton, Edward B. 4.** La signification bionomique des taches ocellaires des phases de la saison humide chez les *Satyrinae* et *Nymphalinae*. Paris, Ann. soc. ent., **72**, 1903, (406-412 av. pl.). [4131 4423 4419])

Prediger, G. [Aufenthaltssorte v. *Rhizotrogus cicatricosus* Muls.] Insektenbörse, Leipzig, **23**, 1906, (88). [*Coleoptera*.]

Prëssat, André. Le paludisme et les moustiques (Prophylaxie). Paris (Masson), 1905, (viii + 180). [*Diptera*.]

Prideaux, R. M. A few notes on rearing *Lowia* (*Chrysophanus*) *alciphron* var. *gordius*. Ent. Rec., London, **18**, 1906, (246). [*Lepidoptera*.]

Prochnow, Oskar. Entomologie und Meteorologie: Ein Beitrag zur Biologie der Insekten. Ent. Zs., Guben, **19**, 1905-1906, (165-166, 169-172, 178-179, 183-184, 210).

Prout, Louis B. **1.** *Lepidoptera Heterocera* from Majorca, collected by A. H. Jones, Esq., 1905. Ent. Mag., London, **42**, 1906, (172).

Prout, Louis B. **2.** The generic name *Scopula*. Entomologist, London, **39**, 1906, (266). [*Lepidoptera*.]

Prout, Louis B. **3.** *Xanthorhoe ferrugata* (Clerck) and the Mendelian hypothesis. London, Trans. Ent. Soc., **1906**, (525-531). [*Lepidoptera*.]

Prout, Louis B. **4.** The British species of *Perizoma* (*Emmelesia*). London, Trans. City Nat. Hist. Soc., **1905**, (25-46). [*Lepidoptera*.]

Prout, Louis B. **5.** The *Rheumaptera hastata* group. London, Trans. City Nat. Hist. Soc., **1906**, (22-34). [*Lepidoptera*.]

Przibram, Hans. Aufzucht, Farbwechsel und Regeneration einer ägyptischen Gottesanbeterin (*Sphodromantis bioculata* Burm.). (Einschl. einiger Regeationsversuche v. Stud. phil. Isaak Werber.) Arch. Entw. Mech., Leipzig, **22**, 1906, (149-206, 4 Taf.). [*Orthoptera*.]

Puel, L. Description d'un *Anisodactylus* nouveau du Midi de la France. Paris, Bul. soc. ent., **1904**, (160). [4831 4827 df.]

Püngeler, Rudolf. **1.** Berichtigungen zum *Lepidopteren-Verzeichnis* im I. Jg. [Posener Fauna.] Posen, Zs. D. Ges. Wiss., natw. Abt., **13**, 1906, (62-64).

Püngeler, R. **2.** *Hadena ribbei* n. sp., aus Spanien. D. ent. Zs. Iris, Berlin, **19**, 1906, (77-78, mit 1 Taf.). [*Lepidoptera*.]

Püngeler, R. **3.** Neue palaearctische *Macrolepidopteren*. D. ent. Zs. Iris, Berlin, **19**, 1906, (78-98).

Quajat, E. Sur la parthénogenèse artificielle des œufs du bombyx du mûrier. (Recherches expérimentales). Mâcon, Bul. soc. sci. nat., **2**, 1906, (218-229). [*Lepidoptera*.]

Quanjer, Hendrik M[arius]. **1.** De belangrijkste ziekten van kool in Noord-

Holland. [Die wichtigsten Krankheiten des Kohls in Nord-Holland.] Haarlem, Nat. Verh. Holl. Maatsch. Wet., Ser. 3, **6**, 2, [1906], (1-84, 7 Taf., 1 Karte).

Quanjer, H. M. **2.** *Platella cruciferarum* Z. (Holländisch) 's Gravenhage, Tijdschr. Ent., **49**, [1906], (11-17, 2 Taf.). [*Lepidoptera*.]

Quayle, H. J. Notes on the egg-laying habits of *Culex curriei* Coq. Ent. News, Philadelphia, Pa., **17**, 1906, (4-5). [*Diptera*.]

Rádl, Em. **1.** Ueber ein neues Sinnesorgan auf dem Kopfe der *Corethra*-larve. Zool. Anz., Leipzig, **30**, 1906, (169-170). [*Diptera*.]

Rádl, E. **2.** O zakrnělých temenních očích u tiplic (*Tipulidae*). [On the simple eyes on the gnat's head.] Prag, Rozpr. Česká Ak. Frant. Jos., **15**, 1906, No. 45, (1-6). [*Diptera*.]

Raffray, Achille. **1.** Nouvelle espèce du genre *Amaurops* provenant des environs de Rome. Paris, Bull. soc. ent., **1906**, (162-163). [*Coleoptera*.]

(Raffray, A. 2. Genera et Catalogue des Psélaphides. Paris, Ann. soc. ent., **72**, 1903, [1904], (484-604, av. fig.); **73**, 1904, (1-476, av. fig. et pl.). [1831].)

Ragusa, Enrico. **1.** Gli *Apion* di Sicilia. Naturalista sicil., Palermo, **18**, 1906, (211-218). [*Coleoptera*.]

(Ragusa, E. 2. Osservazioni su alcuni *Coleotteri* di Sicilia notati o omessi nel nuovo Catalogo dei *Coleotteri* d'Italia del Dott. Stefano Bertolini. Naturalista sicil., Palermo, **17**, 1904, (1-9))

(Ragusa, E. 3. Note *Lepidotterologiche*. Naturalista sicil., Palermo, **17**, 1904-1905, (passim, con 1 tav.). [4431].)

(Ragusa, E. 4. La *Rosalia alpina* L. di Sicilia e le sue varietà. Naturalista sicil., Palermo, **18**, 1905, (7-8).)

(Ragusa, E. 5. Catalogo dei *Lepidotteri* di Sicilia esistenti nella collezione di Enrico Ragusa. [Macrolepidotteri.] Naturalista sicil., Palermo, **17**, N. 7-8, 1905, (145-164). [4431 4427 dh])

(Ragusa, E. 6. Catalogo dei *Lepidotteri* di Sicilia esistenti nella collezione di Enrico Ragusa. [Microlepidotteri.] Naturalista sicil., Palermo, **18**, N. 1, 1905, (10-24). [4431 4427 dh])

(Ragusa, E. 7. Coleotteri nuovi o poco conosciuti della Sicilia. Naturalista sicil., Palermo, **17**, 1904-1905, (passim); **18**, 1905-1906, (passim). [1831-1827 dh].)

(Rainbow, W[illiam] J[oseph]. Notes on Australian Siphonaptera. Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (101-109, with pl. and text figs.). [3627 ie 3631].)

Ramsay, Lilian. The pattern variation in the pupa of *Melitaea chalcidion*. Psyche, Cambridge, Mass., **13**, 1906, (136, pl. viii). [*Lepidoptera*.]

Rathlef, H. v. 1. Erster coleopterologischer Bericht zur Kenntnis der nordlivländischen Seen. [In] Materialien zur Erforschung der Seen Livlands. Jurjev, Sitzb. Naturf. Ges., **14**, 2, 1905, [1906], (39-46).

Rathlef, A. von. 2. Neue baltische Coleopteren. Jurjev, Sitzb. Naturf. Ges., **15**, 1906, (94-100).

[Rathlef, H. von. 3. *Colcoptera* Baltica. Käfer-Verzeichniss der Ostseeprovinzen nach den Arbeiten von Ganglbauer und Reitter. Jurjev, Arch. Naturk. Ser. 2, **12**, 1905, (1-199).]

Raynor, G. H. *vide* Doncaster, L.

Rayward, A. L. Larvae of *Lycaena corydon* and their association with ants. Entomologist, London, **39**, 1906, (197, 198). [*Lepidoptera*.]

Razzanti, Alberto. Coleotteri dell'isola d'Elba e di Pianosa. Riv. Coleotter. ital., Camerino, **4**, 1906, (111-115).

Rebel, H. 1. Ueber Aethiopische Saturniiden. D. ent. Zs. Iris, Berlin, **18**, (1905), 1906, (268-275). [*Lepidoptera*.]

Rebel, H. 2. *Lepidopteren* aus Morea. Nachtrag 2. Berliner ent. Zs., **50**, (1905), 1906, (291-314).

Rebel, H. 3. Ueber aethiopische Saturniiden. D. ent. Zs. Iris, Berlin, **19**, 1906, (97-101). [*Lepidoptera*.]

Rebel, H. 4. *Lepidopteren* aus dem Gebiete des Triglav und der Črna Prst in Krain. Wien, JahrBer. Entom. Ver., **16**, (1905), 1906, (53-73).

Rebel, H. 5. *Lepidoptera*. [In] Penther and Zederbauer, Reise zum Erdschias-Dagh.] Wien, Ann. Nat. Hist. Hofmus., **20**, (189-219).

Rebel, H. 6. Fünfter Beitrag zur *Lepidopterenfauna* der Kanaren. Wien, Ann. Nat. Hist. Hofmus., **21**, 1906, (22-44).

Rebel, H. 7. Beschreibung eines neuen Kleinschmetterlings. Wien, Verh. ZoolBot. Ges., **1906**, (9). [*Lepidoptera*.]

Rebel, H. 8. Beschreibung einer neuen Geometride aus Palästina. Wien, Verh. ZoolBot. Ges., **1906**, (78-80). [*Lepidoptera*.]

Rebel, H. 9. Neuerwerbungen des k. k. Naturhistorischen Hofmuseums. Wien, Verh. ZoolBot. Ges., **1906**, (220-224). [*Lepidoptera*.]

Rebel, H. 10. Beschreibungen Arten welche von Kreta, Ägypten und Tenerife stammen. Wien, Verh. ZoolBot. Ges., **1906**, (232-238). [*Lepidoptera*.]

Rebel, H. 11. Beschreibung einer neuen *Zygaenide*. Wien, Verh. ZoolBot. Ges., **1906**, (378-381). [*Lepidoptera*.]

Rebel, H. 12. Beschreibung eines neuen heimischen Kleinschmetterlings. Wien, Verh. ZoolBot. Ges., **1906**, (643). [*Lepidoptera*.]

Rebel, H. 13. Beschreibung einer neuen *Satyride*. Wien, Verh. ZoolBot. Ges., **1906**, (647). [*Lepidoptera*.]

Redtenbacher, Jos. *vide* Brunner v. Wattenwyl, K.

Regen, Johann. Untersuchungen über den Winterschlaf der Larven von *Gryllus campestris* L. Ein Beitrag zur Physiologie der Atmung und Pigmentbildung bei den Insekten. Zool. Anz., Leipzig, **30**, 1906, (131-135). [*Lepidoptera*.]

Régimbart, Maurice. 1. *Dytiscidae*, *Gyrinidae*, *Hydrophilidae*. Voyage de M. Charles Alluaud dans l'Afrique orientale. Paris, Ann. soc. ent., **75**, 1906, (235-278). [*Colcoptera*.]

Régimbart, M. 2. Description d'un *Dytiscide* nouveau. Paris, Bul. soc. ent., **1906**, (203-204). [*Colcoptera*.]

Régimbart, M. 3. *Dytiscidae*, *Gyrinidae* et *Hydrophilidae*. Nova Guinea. Résultats de l'Expédition scientifique Néerlandaise à la Nouvelle-Guinée en 1903, sous les auspices de Arthur Wichmann, Chef de l'Expédition. Leide, 1906, **5**, Livr. 1, (21-22).

(Régimbart, M. 4. Description d'un *Hydroporus* nouveau. Paris, Bul. soc. ent., 1903, (254-255). [4831 4827 df dg].)

(Régimbart, M. 5. Note sur le *Sieltia calsetensis* Ab. Paris, Bul. soc. ent., 1905, (252-254). [4831].)

(Régimbart, M. 6. Note sur les *Dytiscus* à femelles dimorphes. Paris, Bul. soc. ent., 1905, (254-255). [4831 4823].)

(Régimbart. 7. Coléoptères (*Dytiscides*, *Gyrinides*, *Hydrophilides*). Mission Pavie, 3, 1904, (81-83).)

Rehn, James A[bram] G[arfield]. 1. Notes on South American grasshoppers of the subfamily *Aceridinae* (*Acrididae*), with descriptions of new genera and species. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., 30, 1906, No. 1453, (371-391). [*Orthoptera*.]

Rehn, J. A. G. 2. Descriptions of three new species of katydids and a new genus of crickets from Costa Rica. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., 30, 1906, No. 1459, (597-605). [*Orthoptera*.]

Rehn, J. A. G. 3. The *Orthoptera* of the Bahamas. New York, N.Y., Bull. Amer. Mus. Nat. Hist., 22, 1906, (107-118).

Rehn, J. A. G. 4. Studies in South and Central American *Aceridinae* (*Orthoptera*), with the descriptions of a new genus and six new species. Philadelphia, Pa., Proc. Acad. Nat. Sci., 58, 1906, (10-50).

Rehn, J. A. G. 5. Records and descriptions of non-saltatorial *Orthoptera* from British Guiana. Philadelphia, Pa., Proc. Acad. Nat. Sci., 58, 1906, (262-278).

Rehn, J. A. G. 6. Descriptions of five new species of *Orthoptera* from Tonkin. Philadelphia, Pa., Proc. Acad. Nat. Sci., 58, 1906, (279-292).

Rehn, J. A. G. 7. A new species of *Eotettix* (*Acrididae*) from Georgia. Ent. News, Philadelphia, Pa., 17, 1906, (231-237). [*Orthoptera*.]

Rehn, J. A. G. 8. Some Utah *Orthoptera*. Ent. News, Philadelphia, Pa., 17, 1906, (284-288).

Rehn, J. A. G. 9. A new species of *Proseopid* (*Acrididae*) from the Amazon (N-9720 j)

region. Ent. News, Philadelphia, Pa., 17, 1906, (332-334).

Rehn, J. A. G. 10. *Conocephalus lyristes* [in New Jersey]. Ent. News, Philadelphia, Pa., 17, 1906, (366-367). [*Orthoptera*.]

(Rehn, J. A. G. 11. Records of some Paraguayan *Orthoptera* with the description of a new genus and species. Ent. News, Philadelphia, Pa., 16, 1905, (37-42). [3827 hi 3831].)

(Rehn, J. A. G. 12. Notes on the *Orthoptera* of Costa Rica, with descriptions of new species. Philadelphia, Pa., Proc. Acad. Nat. Sci., 57 (1905), 1906, (790-843, with text fig.). [3827 hb 3831].)

Rehn, James A[bram] G[arfield] and Hebard, Morgan. A contribution to the knowledge of the *Orthoptera* of Montana, Yellowstone Park, Utah and Colorado. Philadelphia, Pa., Proc., Acad. Nat. Sci., 58, 1906, (358-418).

Reichert, Alex. Begattungstrieb in höchster Potenz. Ent. Jahrb., Leipzig, 16, 1907, (69-70).

Reijnvaan, Jenny and Docters van Leeuwen, W[illem] M[arius]. 1. Die Entwicklung der Galle von *Lipara lucens*. Nijmegen, Rec. Trav. Bot. Néerl., 2, 1906, (235-264, 1 Taf.). [*Diptera*.]

Reijnvaan, J. and Van Leeuwen, W. Docters. 2. Variegated galls of *Cynips kollari* Hartig. Marcellia, Avellino, 5, 1906, (81-82). [*Hymenoptera*.]

Reinberger, 1. Ein Beitrag zur Zucht von *Charaxes jasius* L. Ent. Zs., Guben, 20, 1906, (29). [*Lepidoptera*.]

Reinberger. 2. Ein Beitrag zur Präparation von Schmetterlingen. Ent. Zs., Guben, 20, 1906, (37). [*Lepidoptera*.]

Reineck, Georg. Ueber das Auftreten von zwei Chrysomelidenarten in Thüringen. (1905.) Zs. wiss. Insektenbiol., Husum, 2, 1906, (21-22). [*Coleoptera*.]

Reitter, Edmund. 1. Drei neue im Quellgebiet des Indus von Prof. Dr. Koken gesammelte *Coleopteren*. Entomol. Ztg., Wien, 25, 1906, (40-42).

Reitter, E. 2. Vier neue von Herrn Paganetti-Hummel in Calabrien gesammelte *Coleopteren*. Entomol. Ztg., Wien, 25, 1906, (129-130).

Reitter, E. 3. Uebersicht der *Coleopteren*-Unterfamilie *Omophlini* der *Alleculidae* aus Europa und den angrenzenden Ländern. Brünn, Verh. Natf. Ver., **44** (1905), 1906, (115–175).

Reitter, E. 4. Neue *Coleopteren* aus der palaearktischen Fauna. Entomol. Ztg., Wien, **25**, 1906, (31–37).

Reitter, E. 5. *Coleopterologische* Notizen. Entomol. Ztg., Wien, **25**, 1906, (21–22).

Reitter, E. 6. Uebersicht der mir bekannten, palaearktischen, mit *Aromia* verwandten Gattungen. Entomol. Ztg., Wien, **25**, 1906, (303). [*Coleoptera*.]

Reitter, E. 7. Die *Anaglyptus*-Arten aus der Verwandtschaft des *mysticus* Lin. (Subgen. *Cyrtophorus* Lec.) aus Europa und den angrenzenden Ländern. Entomol. Ztg., Wien, **25**, 1906, (297–293). [*Coleoptera*.]

Reitter, E. 8. Uebersicht der *Colepteren*-Arten aus der nächsten Verwandtschaft des *Pinus* für L. mit weissen Schuppenflecken auf den Flügeldecken. Entomol. Ztg., Wien, **25**, 1906, (281–284).

Reitter, E. 9. Uebersicht der mir bekannten *Campylus*-Arten (*Colepteren*), aus der Verwandtschaft des *C. rubens* Pill., mit beim Männchen gekämmten Fühlern, aus Europa und den angrenzenden Ländern. Entomol. Ztg., Wien, **25**, 1906, (273–274).

Reitter, E. 10. Uebersicht der mir bekannten, palaearktischen Arten der Gattung *Aromia* Serv. Entomol. Ztg., Wien, **25**, 1906, (275–277). [*Coleoptera*.]

Reitter, E. 11. Uebersicht der mir bekannten, palaearktischen Arten der *Colepteren*-Gattung *Oedichirus* Er. Entomol. Ztg., Wien, **25**, 1906, (263–264).

Reitter, E. 12. *Henoticus germanicus* n. sp. Entomol. Ztg., Wien, **25**, 1906, (231). [*Coleoptera*.]

Reitter, E. 13. Dreizehn neue *Colepteren* aus der palaearktischen Fauna. Entomol. Ztg., Wien, **25**, 1906, (237–244).

Reitter, E. 14. Uebersicht der palaearktischen Arten der *Colepteren*-Gattung *Nargus* Thoms. aus der Familie der Silphiden. Entomol. Ztg., Wien, **25**, 1906, (141–145).

Reitter, E. 15. *Coleopterologische* Notizen, (653–660). Entomol. Ztg., Wien, **25**, 1906, (139–140).

Reitter, E. 16. Neue *Colepteren* aus Spanien. Madrid Bol. Soc. esp. Hist. nat., **6**, 1906, (375–380).

Reitter, E. 17. *Cisurgus ragusae* nov. sp. Naturalista sicil., Palermo, **18**, 1906, (241). [*Coleoptera*.]

Reitter, E. 18. *Epuraca ragusae* n. sp. (Sicilien). Naturalista sicil., Palermo, **18**, 1906, (219). [*Coleoptera*.]

Reitter, E. 19. Einige neue *Colepteren*. D. ent. Zs., Berlin, **1906**, (449–451).

Reitter, E. 20. Neue Uebersicht der mir bekannten Arten der *Colepteren*-Gattung *Laena* Latr. aus Turkestan und Kaschmir, nebst Beschreibung von 2 neuen Arten aus Osteuropa. D. ent. Zs., Berlin, **1906**, (442–448).

Reitter, E. 21. Uebersicht der *Colepteren*-Arten der Gattung *Aphodius* Illig. aus dem nächsten Verwandtschaftskreise des *Aph. prodromus* Brahm, des Subgenus *Melinopterus* s. str. D. ent. Zs., Berlin, **1906**, (435–442).

Reitter, E. 22. Bestimmungstabellen der mit *Myliacus* und *Ptochus* verwandten *Curculioniden*. Brünn, Verh. Natf. Ver., **44**, (1905), 1906, (208–256). [*Coleoptera*.]

(**Reitter, E. 23.** Uebersicht der *Colepteren*-Gattung *Strangalia* Serv. aus der Verwandtschaft der *St. melanura* L. und *bifasciata* Müll. Entomol. Ztg., Wien, **20**, 1901, (77–80). [4831].)

(**Reitter, E. 24.** Notizen zu den Bemerkungen des Herrn Tschitscherine zu Reitter's Bestimmungstabelle der *Harpalini*. Entomol. Ztg., Wien, **20**, 1901, (109–113). [4831].)

(**Reitter, E. 25.** Neue und seltene *Colepteren*, gesammelt im Jahre 1901, in der Herzegowina, in Dalmatien und Bosnien. Entomol. Ztg., Wien, **21**, 1902, (1–9, mit 1 Taf.). [4827 dk 4831].)

(**Reitter, E. 26.** Siebzehnter Beitrag zur *Colepteren*-fauna von Europa und den angrenzenden Ländern. Entomol. Ztg., Wien, **22**, 1903, (173–178). [4827 fb d 4831].)

- (Reitter, E. 27. Neue, von den Herren Otto Leonhard und M. Hilf in der Herzegowina entdeckte Grottenkäfer. Entomol. Ztg., Wien, 22, 1903, (209-213). [4819 4827 dk 4831].)
- (Reitter, E. 23. Uebersicht der *Otiorrhynchus*-Arten aus der Untergattung *Limatogaster* Apfelb. Entomol. Ztg., Wien, 22, 1903, (213-215). [4827 dk 4831].)
- (Reitter, E. 29. *Antroherpon matulici* n. sp. Entomol. Ztg., Wien, 22, 1903, (216). [4831].)
- (Reitter, E. 30. Neue, von Herrn Hauptmann E. von Bodemeyer im Jahre 1903 in Kleinasien gesammelte Coleopteren, vorzüglich Pselaphiden und Scydmaeniden. Entomol. Ztg., Wien, 22, 1903, (221-224). [4827 ei 4831].)
- (Reitter, E. 31. Uebersicht der *Otiorrhynchus*-Arten aus der nächsten Verwandtschaft des *O. proximus* Strl. Entomol. Ztg., Wien, 22, 1903, (228-229). [4831].)
- (Reitter, E. 32. Uebersicht der mit *Zonabris variabilis* Pall. zunächst verwandten Coleopteren-Arten. Entomol. Ztg., Wien, 22, 1903, (230). [4831].)
- (Reitter, E. 33. Vier neue Coleopteren der palaearctischen Fauna. Entomol. Ztg., Wien, 22, 1903, (231-233). [4827 dk ea fa 4831].)
- (Reitter, E. 34. Uebersicht der Coleopteren-Arten aus der nächsten Verwandtschaft des *Enicmus mannerheimi* Kolen. Entomol. Ztg., Wien, 22, 1903, (234). [4831].)
- (Reitter, E. 35. Zur Entwicklungsgeschichte des *Cleonus saintpierrei* Chevrl. Entomol. Ztg., Wien, 22, 1903, (235-236). [4815 4831].)
- (Reitter, E. 36. Uebersicht der palaearctischen Arten der Coleopteren-Gattung *Eraniocera* Guer. Entomol. Ztg., Wien, 22, 1903, (237-238). [4831].)
- (Reitter, E. 37. *Doreatoma lomnickii* n. sp. Entomol. Ztg., Wien, 22, 1903, (239). [4831].)
- (Reitter, E. 38. *Denticollis (Camylus) jakobsoni* n. sp. Entomol. Ztg., Wien, 22, 1903, (280-281). [4831].)
- (Reitter, E. 39. Uebersicht der mir bekannten Arten der Coleopteren-Gattung *Epieauta* Redtb. aus (x-9720 j)
- der palaearctischen Fauna. Entomol. Ztg., Wien, 24, 1905, (194-196). [4831].)
- (Reitter, E. 40. Neun neue Coleopteren aus der palaearctischen Fauna. Entomol. Ztg., Wien, 24, 1905, (201-206). [4827 de 4831].)
- (Reitter, E. 41. Zur systematischen Gruppeneinteilung des Coleopteren-Genus *Leistus* Frölich und Uebersicht der mir bekannten Arten. Entomol. Ztg., Wien, 24, 1905, (209-225). [4831].)
- (Reitter, E. 42. Uebersicht der Arten der Coleopteren-Gattung *Proteinus* Latr. aus Europa und dem Kaukasus. Entomol. Ztg., Wien, 24, 1905, (226-228). [4827 dea 4831].)
- (Reitter, E. 43. Zur systematischen Gruppeneinteilung des Coleopteren-Genus *Dromius* Bonelli und Uebersicht der mir bekannten Arten. Entomol. Ztg., Wien, 24, 1905, (229-239). [4831].)
- (Reitter, E. 44. Uebersicht der Arten der Coleopteren-Gattung *Pilemia* Fairm. aus der palaearctischen Fauna. Entomol. Ztg., Wien, 24, 1905, (239-240). [4827 de 4831].)
- (Reitter, E. 45. Sechszehn neue Coleopteren aus der palaearctischen Fauna. Entomol. Ztg., Wien, 24, 1905, (241). [4827 de 4831].)
- (Reitter, E. 46. Drei neue Coleopteren aus der palaearctischen Fauna. Entomol. Ztg., Wien, 24, 1905, (311-312). [4827 dk ea 4831].)
- (Reitter, E. 47. Una nuova varietà di *Akis spinosa* L. (var. *ragusae*). Naturalista sicil., Palermo, 17, N. 5, 1904, (97). [4831].)
- Reitter, E. 48. *Catalogus Coleopterorum Europae, Caucasi et Armeniae rossicae*. Auctoribus Dr. L. v. Heyden, E. Reitter and J. Weise cum aliis sociis coleopterologicis. Editio secunda. Edidit Edmund Reitter. Paskau, 1906, (vi + 774). Svo.
- Reukauf, E. Das Musikinstrument der grünen Laubheuschrecke (*Locusta viridissima* L.). Kosmos, Stuttgart, 3, 1906, (115-116). [Orthoptera.]
- [Reuter, O. M.] 1. Ausgewählte Kapitel aus O. M. Reuters „Revisio critica Capsinarum“ als Beitrag zur Biologie und Morphologie der Capsiden

ins Deutsche übertragen v. Embr[ik] Strand, überarb. v. Th[eodor] Hübner u. J. Gulde. Stuttgart, Jahreshefte Ver. Natk., **62**, 1906, (262-311). [*Hemiptera*.]

Reuter, O. M. 2. A new Ethiopian species of *Helopeltis*. Ent. Mag., London, **42**, 1906, (111, 112). [*Heteroptera*.]

Reuter, O. M. 3. *Pameridea* nov. gen., eine *Capside*, die in Südafrika die Bestäubung von *Roridula gorgonias* besorgt. Zool. Anz., Leipzig, **30**, 1906, (723-726). [*Hemiptera*.]

Reuter, O. M. 4. Ueber die Verwendung des Gattungsnamens *Lopus* (*Heteroptera, Capsidae*). Entomol. Ztg., Wien, **25**, 1906, (216).

[**Reuter, O. M. 5.** *Capsidae* novae mediterraneae. V. Helsingfors, Öfvers. F. Vet. Soc., **47**, 1905, No. 4, (1-26). [*Hemiptera*.]]

[**Reuter, O. M. 6.** Ad cognitionem *Capsidarum* Australiae. Helsingfors, Öfvers. F. Vet. Soc., **47**, 1905, No. 5, (1-15, i pl.). [*Hemiptera*.]]

[**Reuter, O. M. 7.** Ad cognitionem *Capsidarum* aethiopicarum. 2. Helsingfors, Öfvers. F. Vet. Soc., **47**, No. 10, (1-22). [*Hemiptera*.]]

[**Reuter, O. M. 8.** *Capsidae* stalianae secundum specimina typica rede-scriptae. Helsingfors, Öfvers. F. Vet. Soc., **47**, 1905, No. 12, (1-20). [*Hemiptera*.]]

[**Reuter, O. M. 9.** *Capsidae* in Venezuela a D^o Dire Fr. Meinert collectae enumeratae novaeque species descriptae. Helsingfors, Öfvers. F. Vet. Soc., **47**, 1905, No. 19, (1-39, i pl.). [*Hemiptera*.]]

[**Reuter, O. M. 10.** Ad cognitionem *Capsidarum* Australiae. II. Helsingfors, Öfvers. F. vet. Soc., **47**, 1905, No. 20, (1-9). [*Hemiptera*.]]

[**Reuter, O. M. 11.** Ad cognitionem *Capsidarum* aethiopicarum. III. Helsingfors, Öfvers. F. vet. Soc., **47**, 1905, No. 21, (1-9). [*Hemiptera*.]]

(**Reuter, O. M. 12.** Trois *Capsides* nouveaux pour la faune française. Paris, Bul. soc. ent., **1905**, (8-9). [4031 4027 df])

Rey, Eugen. Zur Entwicklung einiger bekannter Käfer. Insekten-

börse, Leipzig, **23**, 1906, (59). [*Coleoptera*.]

Ricardo, Gertrude. 1. Notes on the genus *Haematopota* of the family *Tabanidae* in the British Museum collection. Ann. Mag. Nat. Hist., London, Ser. 7, **18**, 1906, (94-127, pls. iii-vi). [*Diptera*.]

Ricardo, G. 2. Description of a new fly of the family *Tabanidae*. London, Proc. Zool. Soc., **1906**, (97, 98). [*Diptera*.]

Richardson, Nelson M. Report on first appearances of birds, insects, etc., and the first flowering of plants in Dorset during 1905. Dorchester, Proc. Dorset Nat. Hist. F. Cl., **27**, 1906, (259-270).

Riedel, M. P. Ueber Blüten besuchende Zweiflüger. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (102-101). [*Diptera*.]

Riedinger, F. Etwas über das Nadeln von Faltern mit abwärts geschlagenen Flügeln. Ent. Zs., Guben, **20**, 1906, (36-37). [*Lepidoptera*.]

Riffarth, Heinrich. Eine neue *Heliconius*-Form. Insektenbörse, Leipzig, **23**, 1906, (56). [*Lepidoptera*.]

Riley, William A. 1. A case of pseudoparasitism by *Dipterous* larvae. Canad. Entomol., **38**, 1906, (113).

Riley, W. A. 2. A malpighian tube within the heart. Ent. News, Philadelphia, Pa., **17**, 1906, (113-114). [cf. Calvert, T. c. (179)]. [*Orthoptera*.]

Riley, W. A. 3. The divided eyes of *Blepharocera tenuipes* Walker. Science, New York, **24**, 1906, (297). [*Diptera*.]

Ris, F. Farbenvarietäten der Agriotide *Nehalennia speciosa* Charp. Schaffhausen, Mitt. Schweiz. ent. Ges., **11**, 1906, (159-165). [*Odonata*.]

[**Risch, F.** Ринъ, Ф. Изъ жизни пчелъ. [Aus dem Leben der Bienen.] Russ. pčelovod. listok, St. Peterburg, **19**, 1904, (390-393). [*Hymenoptera*.]]

Ritsema, Cz., C[oenraad]. 1. Une nouvelle espèce chinoise du genre *Helota*. Bul. Mus., Paris, **1906**, (196-198). [*Coleoptera*.]

Ritsema, C. 2. *Helota rouyeri* nov. spec. from West-Sumatra. Leiden, Notes Mus. Jentink, **28**, [1906], (131-133). [*Coleoptera*.]

Ritsema, C. 3. A new Sumatran species of the Coleopterous genus *Helota*. Leiden, Notes Mus. Jentink, **26**, 1906, (223-225).

Ritsema, C. 4. A new longicorn beetle from Sumatra. Leiden, Notes Mus. Jentink, **28**, [1906], (137-138). [*Coleoptera*.]

Rivera, Manuel J. Los insectos de las arboledas de Contulmo. [The insects of the "contulmo" shrubs.] Santiago, Act. Soc. Chili, **15**, 1905, (1-26).]

Rivers, J. J. A butterfly new to southern California. Los Angeles, Bull. So. Cal. Acad. Sci., **5**, 1906, (38). [*Lepidoptera*.]

Robertson, Charles. Ecological adaptation and ecological selection. Science, New York, N.Y., **23**, 1906, (307-310).

Rocci, Ubaldo. Sul mimetismo nei *Lepidotteri*. Genova, Atti Soc. ligustica sc. nat. geogr., **17**, 1906, (165-179).

Rochaz de Jongh, Jeanne vide Galli-Valerio, Bruno.

Roebuck, W. Denison. *Xeris spectrum* at Leeds: an addition to the British list of *Hymenoptera*. Naturalist, London, 1906, (223).

Röhler, Ernst. Zur Kenntnis der antennalen Sinnesorgane der *Dipteren*. Zool. Anz., Leipzig, **30**, 1906, (211-219).

Roelofs, Paul J. Liste de *Cureulionidae* et *Anthribidae* capturés en Belgique. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (124-128). [*Colcoptera*.]

Roller, L. W. Respiratory responses in the grasshopper to variations in pressure. Lawrence, Kan. Univ. Sci. Bull., **3**, 1906, (211-224, pl. xli). [*Orthoptera*.]

Rondou, P. 1. *Microlépidoptères* de la vallée de Barèges. Bagnères-de-Bigorre, Bul. soc. Ramond, sér. 2, **10**, 1905, (113-126).

Rondon, P. 2. *Microlépidoptères* de la vallée de Barèges. Bagnères-de-Bigorre, Bul. soc. Ramond, sér. 2, **10**, 1905, (172-183).

Roon, G. van. Notice sur l'*Odontolabis ludekingi* Voll., avec description d'une nouvelle variété. 's Gravenhage, Tijdschr. Ent., **49**, 1906, (271-278, pl. xiii). [*Colcoptera*.]

Rossum, A. J. van. 1. Parthenogenesis bij bladwespen. [Parthenogenesis bei Blattwespen.] 's Gravenhage, Tijdschr. Ent., **49**, 1906, Versl., (Ixi-lxix). [*Hymenoptera*.]

Rossum, A. J. van. 2. Parthenogenesis bij bladwespen. [Parthogenesis bei Blattwespen.] 's Gravenhage, Tijdschr. Ent., **49**, 1906, Versl. (vi-xiii). [*Hymenoptera*.]

Rossum, A. J. van. 3. Ter herinnering aan K. Bisschop van Tuinen: met portret. [Zur Erinnerung an K. Bisschop van Tuinen: mit Porträt.] 's Gravenhage, Tijdschr. Ent., **49**, 1906, (234-236).

Rossum, A. J. van. 4. Invloed van het voedsel op *Crocus varus* Vill. [Einfluss der Nahrung auf *Crocus varus* Vill.] Ent. Ber. Nederland, **2**, 1906, (141-146). [*Hymenoptera*.]

Rostagno, Fortunato. Note entomologica. Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (269-274). [*Lepidoptera*.]

Rostrup, Sofie. 1. Nogle Plantesygdomme foraarsagede af Dyr i 1905. [Some diseases of plants due to animals in Denmark, 1905.] Kjöbenhavn, Tidss. Landbr. Planteavl, **13**, 1906, (298-315).

Rostrup, S. 2. Fritfluen [*Oscinis Frit.*] [its course of life and its harmfulness in relation to agriculture in Denmark]. (Danish) Aarhus, Meddelelser vedrørende Insektangreb paa Markafgrøden i Jylland, **1905**, 1906, (75-83). [*Diptera*.]

Rostrup, S. 3. Kaalmøllet. [*Flutella cruciferarum*.] [The factors on which depends its harmfulness in relation to agriculture in Denmark.] (Danish) Aarhus. Meddelelser vedrørende Insektangreb paa Markafgrøde i Jylland, **1905**, 1906, (84-94). [*Lepidoptera*.]

Rothe, Adolf. Biologische Beobachtungen über *Limenitis populi*. Ent. Zs., Guben, **20**, 1906, (88-89). [*Lepidoptera*.]

Rothschild, Hon. N. Charles. 1. Note on the species of Fleas found upon Rats, *Mus rattus* and *Mus decumanus*, in different parts of the world, and on some variations in the proportion of each species in different localities. J. Hygiene, London, **6**, 1906, (483-485).

Rothschild, Hon. N. C. 2. The physiological anatomy of the mouth-parts and alimentary canal of the Indian Rat Flea, *Pulex cheopis* Rothschild. *J. Hygiene*, London, **6**, 1906, (486-495, pl. ix).

Rothschild, Hon. N. C. 3. Some new exotic fleas. *Ent. Mag.*, London, **42**, 1906, (221-224). [*Aphaniptera*.]

Rothschild, Hon. N. C. 4. A new British flea: *Ceratophyllus insularis* sp. n. *Ent. Mag.*, London, **42**, 1906, (59, pl. ii). [*Aphaniptera*.]

Rothschild, Hon. N. C. 5. A new Egyptian flea. *Entomologist*, London, **39**, 1906, (75, pl. iv). [*Aphaniptera*.]

Rothschild, Hon. N. C. 6. Some points in the life-history of *Lycaena arion*. *Entomologist*, London, **39**, 1906, (172). [*Lepidoptera*.]

Rothschild, Hon. N. C. 7. Notes on bat fleas. *Nov. Zool.*, Tring, **13**, (186-188). [*Aphaniptera*.]

Rothschild, Hon. N. C. 8. Three new Canadian fleas. *Canad. Entomol.*, **38**, 1906, (321-325). [*Aphaniptera*.]

Rothschild, Hon. N. C. 9. Notes on the life history of *Trochilium andre-naeforme* Lasp., with notes on the larva by Eustace R. Banks, and on the pupa by T. A. Chapman. London, *Trans. Ent. Soc.*, **1906**, (471-482, pl. xxviii). [*Lepidoptera*.]

Rothschild, Hon. N. C. 10. Note on the species of fleas found upon rats, *Mus rattus* and *Mus decumanus*, in different parts of the world, and on some variations in the proportion of each species in different localities. *J. Hygiene*, London, **6**, 1906, (483-485). [*Aphaniptera*.]

Rothschild, Hon. N. C. vide Jordan, Karl.

Rothschild, Hon. Walter. 1. Two new *Saturniidae*. *Nov. Zool.*, Tring, **13**, 1906, (189). [*Lepidoptera*.]

Rothschild, Hon. W. 2. On a new parasitic Tineid moth from Queensland, discovered by P. F. Dodd [with communication by Dodd]. *Nov. Zool.*, Tring, **13**, 1906, (162-169). [*Lepidoptera*.]

Rothschild, Hon. W. and Jordan, Karl. 1. New *Sphingidae*. *Nov. Zool.*, Tring, **13**, 1906, (178-185). [*Lepidoptera*.]

Rothschild, Hon. W. and Jordan, K. 2. Some new *Sphingidae* in the British Museum. *Nov. Zool.*, Tring, **13**, 1906, (406, 407). [*Lepidoptera*.]

Rothschild, Hon. W. and Jordan, K. 3. A revision of the American Papilios. *Nov. Zool.*, Tring, **13**, 1906, (411-752, pl. iv-ix). [*Lepidoptera*.]

(Roubal, [Ph. C.] J. 1. Ein interessanter Fall von Symbiose einiger Arthropoden mit der Maus. *Entomol. Ztg.*, Wien, **22**, 1903, (206). [4819-4851].)

(Roubal, P. C. J. 2. Notizen zur Biologie von *Tettigometra atra* Hagenb. *Entomol. Ztg.*, Wien, **24**, 1905, (167-168). [4019-4031].)

Roubaud, E. 1. Simulies du Nippon moyen. Quelques observations sur le genre *Simulium*. *Bul. Muséum, Paris*, **1906**, (24-27). [*Diptera*.]

Roubaud, E. 2. Simulies nouvelles de l'Amérique du Sud. *Bul. Muséum, Paris*, **1906**, (106-110). [*Diptera*.]

Roubaud, E. 3. Sur deux types intéressants de Simulides de l'Afrique équatoriale et des Nouvelles-Hébrides. *Bul. Muséum, Paris*, **1906**, (140-143). [*Diptera*.]

Roubaud, E. 4. Biologie larvaire et métamorphoses de *Siphona cristata* Fabr. Adaptation d'une Tachinaire à un hôte aquatique diptère: un nouveau cas d'ectoparasitisme interne. *Paris, C.-R. Acad. sci.*, **142**, 1906, (1438, 1439).

Roubaud, E. 5. Aperçus nouveaux, morphologiques et biologiques sur les *Diptères* piqueurs du groupe de Simulies. *Paris, C.-R. Acad. sci.*, **143**, 1906, (519-521).

Roubaud, E. 6. Stomozydes nouveaux du Sénégal. *Paris, C.-R. soc. biol.*, **60**, 1906, (895-897). [*Diptera*.]

Roubaud, E. 8. Aperçus nouveaux, morphologiques et biologiques, sur les *Diptères* piqueurs du groupe des Simulies. *Paris, C.-R. Acad. sci.*, **143**, 1906, (519-521).

[Roubaud, E. 9. Les Mouka-Foubi, *Simulies* nouvelles de Madagascar. *Bul. Muséum, Paris*, **1905**, (424-427). [*Diptera*.]]

Roubaud, E. 10. Insectes *Diptères*, Simulies nouvelles ou peu connues. *Bul. Muséum, Paris*, **1906**, (517-521).

Rousseau, Ernest. *Coleoptera adepaga* Fam. *Carabidae*, subfam. *Mormolyceinae* in Wytsman Genera Insectorum fascic. **40**, 1906, (1-5, 1 pl.).

Rowland-Brown, H. Some notes on Scandinavian and Lapland butterflies. *Entomologist*, London, **39**, 1906, (220-227, 242-246, pls. vi-viii). [*Lepidoptera*.]

Rowley, R. R. 1. Hunting *Catocala* by daylight. *Ent. News*, Philadelphia, Pa., **17**, 1906, (231-234). [*Lepidoptera*.]

Rowley, R. R. 2. Notes on *Papilio ajax*. *Ent. News*, Philadelphia, Pa., **17**, 1906, (175-177). [*Lepidoptera*.]

Royer, Maurice. 1. A propos d'*Elasmotethus minor* Horv. Paris, *Bul. soc. ent.*, **1906**, (237-238). [*Hemiptera*.]

Royer, M. 2. Contribution à la faune des Hémiptères de l'île de Majorque. Paris, *Bul. soc. ent.*, **1906**, (253-254).

Royer, M. 3. Synonymie du *Tricophora sanguinolenta* Scop. et de deux espèces voisines. Paris, *Bul. soc. ent.*, **1906**, (293-299). [*Homoptera*.]

Royer, M. 4. Note de bibliographie (Hémiptères). *Rev. ent.*, Caen, **25**, 1906, (15-17).

Rudneff, D. Ueber die *Rhopalomyiagallen* von *Pyrethrum bipinnatum*. Marcellia, Avellino, **5**, 1906, (23-26).

Rudolph, Franz. *Euchloë belia* Cr. aberr. [*philippsi* n.] *Ent. Zs.*, Guben, **20**, 1906, (81). [*Lepidoptera*.]

Rudow, F. 1. Einige Volksansichten über Insekten und deren merkwürdiges Vorkommen. *Ent. Zs.*, Guben, **20**, 1906, (13-14).

Rudow, F. 2. Beschreibung einiger ausländischer Wespennester. *Ent. Zs.*, Guben, **20**, 1906, (185-187, 201-203). [*Hymenoptera*.]

Rudow, F. 3. Einige Abweichungen von der regelrechten Bildung. *Ent. Zs.*, Guben, **20**, 1906, (46).

Rudow, F. 4. Eine Sammlerfahrt nach Südtirol und Umgebung. *Ent. Zs.*, Guben, **20**, 1906, (140-141, 148-150).

Rudow, F. 5. Die Wohnungen der Ameisen. *Ent. Jahrb.*, Leipzig, **15**, 1906, (148-171). [*Hymenoptera*.]

Rudow, F. 6. Nächtlicher Insektenfang. *Insektenbörse*, Leipzig, **23**, 1906, (96, 99-100).

Rübsaamen, Ew. J. H. Ueber Bildungsabweichungen bei *Vitis vinifera* L. und auf dieser Pflanze lebende Cecidomyiden. *Zs. wiss. Insektenbiol.*, Husum, **2**, 1906, (129-137, 185-198, 225-237). [*Diptera*.]

Ruthven, A. G. Spiders and insects from the Porcupine mountains and Isle Royale, Michigan. Michigan, *Rep. Geol. Surv.*, Lansing, **1905**, 1906, (100-106).

Ruzskij, M. *vide* Semenov, A.

Sack, P. *vide* Graeffe, Ed.

Sahlberg, J. 1. Dipterologiska notiser. [Dipterological notes.] Helsingfors, Medd. Soc. Fauna Fl. Fenn., **31**, 1906, (67, 68).

Sahlberg, J. 2. De finska arterna af diptersläktet *Chrysops*. [The Finnish species of the *Dipterous* genus *Chrysops*.] Helsingfors, Medd. Soc. Fauna Fl. Fenn., **31**, 1906, (103-105). [*Diptera*.]

Sahlberg, J. 3. En nykomling till den finska coleopterfaunan. [An addition to the Finnish *Coleoptera*.] Helsingfors, Medd. Soc. Fauna Fl. Fenn., **31**, 1906, (105).

Sahlberg, J. 4. *Agabus (Gaurodytes) gelidus* n. sp. Helsingfors, Medd. Soc. Fauna Fl. Fenn., **32**, 1906, (15-17). [*Coleoptera*.]

Sahlberg, J. 5. *Simulithis pariana* Hb., en för äppelträden skadlig, hos oss förut föga bemärkt småfjäril. [S.P. injurious to apples, its parasites.] Helsingfors, Medd. Soc. Fauna Fl. Fenn., **32**, 1906, (18, 19).

Sainte-Claire Deville, J. *vide* Deville, Sainte-Claire, J.

Sajó, Karl. 1. Der Siebenpunkt. (*Coccinella septempunctata*). Prometheus, Berlin, **17**, 1906, (189-192, 506-509). [*Coleoptera*.]

Sajó, K. 2. Neuere Beobachtungen über Schmetterlingsschwärme. Prometheus, Berlin, **17**, 1906, (748-749). [*Lepidoptera*.]

Sanborn, Charles Emerson. 1. *Macrosiphum granaria* Buckton. *Ent. News*, Philadelphia, Pa., **17**, 1906, (290). [*Aphidae*.]

Sanborn, C. E. 2. Kansas *Aphididae*, with catalogue of North American *Aphididae*, and host-plant and plant-host list. Lawrence, Kan. Univ. Sci. Bull., **3**, 1906, (3-82).

Sanborn, C. E. 3. Kansas *Aphididae*, with catalogue of North American *Aphididae*, and with host-plant and plant-host list, Part 2. Lawrence, Kan. Univ. Sci. Bull., **3**, 1906, (223-275).

Sanders, J. G. Catalogue of recently described *Coccidae*. Washington, D.C., Tech. Ser., U. S. Dept. Agric., Bur. Ent., No. **12**, pt. 1, 1906, (i-iii + 1-18).

Sanderson, E[ra] Dwight. 1. Report on miscellaneous insects in Texas. Washington, D.C., Bull. U. S. Dept. Agric., Bur. Ent., No. **57**, 1906, (1-63, 1 pl.).

Sanderson, E. D. 1a. Texas notes, 1. Ent. News, Philadelphia, Pa., **17**, 1906, (210-213).

Sanderson, E. D. 2. Texas notes. 2. The English grain louse. Ent. News, Philadelphia, Pa., **17**, 1906, (327-328). [*Aphidae*.]

Sanderson, E. D. 3. Texas notes. 3. The chinch bug in Texas. Ent. News, Philadelphia, Pa., **17**, 1906, (361-366). [*Hemiptera*.]

Sanderson, E. D. 4. National control of introduced insect pests. Pop. Sci. Mon., New York, N.Y., **68**, 1906, (431-439).

Sandias, Andrea. Alcune ricerche sui *Termitidi*. Riv. ital. sc. nat., Siena, **26**, 1906, (121-125).

Santschi, F. A propos des mœurs parasitiques temporaires des Fourmis du genre *Botryomyrmex*. Paris, Ann. soc. ent., **75**, 1906, (363-392). [*Hymenoptera*.]

Sartorius, E. *Agrotis lidia* Cr. Ent. Zs., Guben, **20**, 1906, (93-94). [*Lepidoptera*.]

Sasaki, Chujiro. 1. Kusunhamushi no Kujoho ni tsuite. [On the preventive measures of *Trioxys camphorae*.] Tokyo, Nip. Sanrin. Kw. Z., **282**, 1906, (10-13). [*Psyllidae*.]

Sasaki, C. 2. Kusu no Gaichu. [Injurious insect of camphor tree.] Noji Zappo [The Journal of agriculture], Tokyo, **96**, 1906, (38-40).

Saulcy, F. de. Description d'un *Trechus* français nouveau. Paris, Bul. soc. ent., **1906**, (188-189). [*Coleoptera*.]

Saunders, E. 1. *Hymenoptera aculeata* taken by Col. Yerbury, R.A., in Scotland, 1905. Ent. Mag., London, **42**, 1906, (60).

Saunders, E. 2. Additions and corrections to the list of British *Hymenoptera* since 1896. Ent. Mag., London, **42**, 1906, (151-155, 172-177, 202-206).

(**Saussure, H. de, André, Ern. et Du Buysson, R.** Hyménoptères recueillis par M. A. Pavie. Mission Pavie, **3**, 1904, (188-203, av. pl.). [1631 4627 ed].)

Schaeffer, Charles. 1. On new and known genera and species of the family *Chrysomelidae*. Brooklyn, N.Y., Mus. Inst. Arts Sci., Bull., **1**, 1906, (221-253). [*Coleoptera*.]

Schaeffer, C. 2. New *Daseyllidae*. Psyche, Cambridge, Mass., **13**, 1906, (114-116). [*Coleoptera*.]

Schaeffer, C. 3. Notes on some species of the genus *Anomala*, with descriptions of new species. New York, N.Y., J. Ent. Soc., **14**, 1906, (1-5). [*Coleoptera*.]

Schaeffer, C. 4. On *Bradycinetus* and *Bolboceas* of North America, with notes on other *Searabaeidae*. Philadelphia, Pa., Trans. Amer. Ent. Soc., **32**, 1906, (249-260). [*Coleoptera*.]

Schaeffer, C. 5. Six new *Pselaphidae*. Philadelphia, Pa., Trans. Amer. Ent. Soc., **32**, 1906, (261-266). [*Coleoptera*.]

Schaeffer, C. 6. New *Anthribidae*. Philadelphia, Pa., Trans. Amer. Ent. Soc., **32**, 1906, (267-278). [*Coleoptera*.]

Schaeffer, C. 7. Two new *Oncideres*, with notes on some other *Coleoptera*. Canad. Entomol., **38**, 1906, (18-23).

Schaeffer, C. 8. Four *Ochodaenus* new to the United States. Canad. Entomol., **38**, 1906, (269-272). [*Coleoptera*.]

Schaeffer, C. 9. New *Rhynchophora*. Canad. Entomol., **38**, 1906, (339-344). [*Coleoptera*.]

Schaus, William. Descriptions of new South American moths. Washington, D.C., Smithsonian Inst., U. S.

Nation. Mus., Proc., **30**, 1906, (85-141). [*Lepidoptera.*]

Schenkling, K. Unsere *Lixus*-Arten im allgemeinen und auf Grund der neuesten Bestimmungstabelle derselben betrachtet. Insektenbörse, Leipzig, **23**, 1906, (31-35).—Bemerkung dazu von Ernst von Dombrowski. T.e. (60). [*Coleoptera.*]

Schenkling, Sigm[und]. 1. Die *Cleriden* des Deutschen Entomologischen National-Museums, nebst Beschreibungen neuer Arten. D. ent. Zs., Berlin, **1906**, (211-320, 1 Taf.).

Schenkling, S. 2. *Languriidae, Endomychidae.* Nova Guinea, Résultats de l'Expédition scientifique Néerlandaise à la Nouvelle-Guinée en 1903, sous les auspices de Arthur Wichmann, Chef de l'Expédition. Leide, **5**, Livr. 1, 1906, (39-40). [*Coleoptera.*]

Scherdlin, Paul. *Attacus cynthia* Drury in Strassburg und Umgebung. Ent. Zs., Guben, **20**, 1906, (77-78, 83). [*Lepidoptera.*]

Schilsky, J. 1. Zwei neue *Mordelliden* aus Usambara. D. ent. Zs., Berlin, **1906**, (465-466). [*Coleoptera.*]

Schilsky, J. 2. Ein Wort zur Verständigung über *Larva Scopoli* und *Bruchus* Linné. D. ent. Zs., Berlin, **1906**, (467-469). [*Coleoptera.*]

Schilsky, J. vide Küster und Kraatz.

Schlechtendal, Dietrich von. Haben die paläozoischen Blattiden im Hinterhügel ein Praecostalfeld? Zs. wiss. Insektenbiol., Husum, **2**, 1906, (47-50).

Schmidt, Adolf. 2 neue paläarktische Aphodien und einige Bemerkungen. D. ent. Zs., Berlin, **1906**, (410-411). [*Coleoptera.*]

Schmidt, Edmund. 1. Beitrag zur Kenntnis der *Fulgoriden*. Stettiner ent. Ztg, **67**, 1906, (183-213). [*Homoptera.*]

Schmidt, E. 2. Beitrag zur Kenntnis der Cercopiden. Die Gattung *Sialoscarta* Jacobi. Stettiner ent. Ztg, **67**, 1906, (276-280). [*Homoptera.*]

Schmidt, E. 3. Beitrag zur Kenntnis der *Fulgoriden*. Die Gattung *Miasa* Distant. Stettiner ent. Ztg, **67**, 1906, (280-286). [*Homoptera.*]

Schmidt, E. 4. Beitrag zur Kenntnis der *Membraciden*. Neue Genera und Species in der Sammlung des Stet-

tinier Museums. Stettiner ent. Ztg, **67**, 1906, (359-373). [*Homoptera.*]

Schmidt, E. 5. Zur Kenntnis der *Fulgoriden* - Gattungen *Phrietus* und *Diareusa*. Stettiner ent. Ztg, **67**, 1906, (373-378). [*Homoptera.*]

Schmitt, Joseph. Monographie de l'île d'Anticosti (Golfe Saint-Laurent). Paris, 1904, (vi + 370); Chap. xix, Insectes, (262-275).

Schmitz, H. 1. *Dixippus morosus*, eine tropische Gespenstheuschrecke. Natur u. Offenb., Münster, **52**, 1906, (385-407). [*Orthoptera.*]

Schmitz, H. 2. Das Leben der Ameisen und ihrer Gäste. Anleitung zur Beobachtung der in Deutschland heimischen Arten. (Naturw. Jugend- und Volksbibl., Bd 35.) Regensburg (G. J. Manz), 1906, (191, 1 Taf.). [*Hymenoptera.*]

Schnabl, Johann. 1. Ueber die systematische Stellung einiger *Anthomyiden*-Gattungen. Entomol. Ztg., Wien, **25**, 1906, (267-269) [*Diptera.*]

Schnabl, J. 2. Einige Worte über die Terminologie der Beborstung der *Dipteren*-Beine. Entomol. Ztg., Wien, **25**, 1906, (269-272).

Schneider, Ed. Eine seltsame Paarung. D. ent. Zs. Iris, Berlin, **19**, 1906, (107-108). [*Lepidoptera.*]

Schneider, J[acob] Sparre. Saltdalens Lepidopterfauna. 2det bidrag. (Mit einem Resumé.) [Die *Lepidopteren*-fauna Saltdalens (Norwegen).] Tromsø Mus. Aarsh., **28**, (1905), 1906-07, (103-148, Res. 149-162, 1 Taf.).

Schönfeldt, H. von. 1. *Cetonini* und *Coprini*. Nova Guinea, Résultats de l'Expédition scientifique Néerlandaise à la Nouvelle-Guinée en 1903, sous les auspices de Arthur Wichmann, Chef de l'Expédition, **5**, Livr. 1, 1906, (29-30). [*Coleoptera.*]

Schönfeldt, H. von. 2. *Brenthidae*. Nova Guinea, Résultats de l'Expédition scientifique Néerlandaise à la Nouvelle-Guinée en 1903, sous les auspices de Arthur Wichmann, Chef de l'Expédition, **5**, Livr. 1, 1906, (35-36). [*Coleoptera.*]

Schøyen, W[ilhelm] Maribo] *Lophyrus*-Aat paa Furu. [Beschädigung der Kiefer durch *Lophyrus*.] Kristiania,

Tidssk. Skogbr., **14**, 1906, (224-225). [*Hymenoptera.*]

Scholz, E. **1.** *Hymenopterologisches* vom Sommer 1905. [Schlesien.] Ent. Zs., Guben, **19**, 1906, (202).

Scholz, E. **2.** *Hymenopterologische* Beiträge. [*Lyda pratensis.*] Aus d. Heimat, Stuttgart, **19**, 1906, (72-73).

Scholz, Richard. Das Stridulationsorgan bei einigen *Geotrupes*-Arten. Insektenbörse, Leipzig, **23**, 1906, (86-87). [*Coleoptera.*]

Schouteden, H. **1.** Escursione del Dott. Ach. Tellini nell'Eritrea. *Hemiptera*. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (14-19).

Schouteden, H. **2.** Excursion du Baron C. von Erlanger en Abyssinie et au pays des Somalis. *Hemiptera*. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (20-29).

Schouteden, H. **3.** *Pentatomides* nouveaux ou peu connus de la faune indo-australienne. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (137-144). [*Hemiptera.*]

Schouteden, H. **4.** Une nouvelle espèce du genre *Aphylum*. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (215-216). [*Hemiptera.*]

Schouteden, H. **5.** Die Metamorphose von *Bathypoecilia thalassina* H.-Sch. eine *Pentatomiden*-Art aus Afrika. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (82-88). [*Hemiptera.*]

Schouteden, H. **6.** A supplementary list to Kirkaldy's catalogue of the *Aphidae* described as new from 1885. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (30-36).

Schouteden, H. **7.** Un nouvel ennemi du cacaoyer en Afrique. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (37-39). [*Aphidae.*]

Schouteden, H. **8.** *Aphis sorghella* Schout., un nouvel ennemi de la doura en Afrique. Bruxelles, Ann. Soc. ent. Belgique, **50**, 1906, (135-136). [*Aphidae.*]

Schouteden, H. **9.** Catalogue des *Aphides* de Belgique. Bruxelles, Mém. Soc. ent. Belgique, **12**, 1905, (189-246).

Schouteden, H. **10.** *Heteroptera* Fern. *Pentatomidae* Subfam. *Aphylinae*.

Fasc., **47**, Wytsman Genera insectorum, 1906, (1-4, pl. i).

(Schouteden, H. **11.** *Katanga*, eine neue *Ectrichodiden*-Gattung. Entomol. Ztg., Wien, **22**, 1903, (217). [4031])

(Schouteden, H. **12.** Neue *Pentatomiden* aus Afrika und Madagaskar, nebst synonymischen Bemerkungen. Entomol. Ztg., Wien, **24**, 1905, (51-55). [4027 f jh mb 4031].)

Schreiber, Otto. Streifzüge auf Cerambyciden und Buprestiden im Oderwalde bei Neusalz. Insektenbörse, Leipzig, **23**, 1906, (23-24, 27-28, 30-31).

[Schreiner, J. Th.] **1.** Шрейперъ, Я. О. Двухлетняя листовертка [*Conchylis (Tortrix) ambiguella* Hubn.], съ біологія и мѣры борьбы. [Der Traubenwickler (*Conchylis (Tortrix) ambiguella* Hubn.), seine Biologie und Bekämpfung.] St. Petersburg, [Dep. d. Landwirthsch.], 1904, (32). [*Lepidoptera.*]

Schreiner, J. **2.** Die Lebensweise und Metamorphose des Rebenschneiders oder grossköpfigen Zwiebelhornkäfers (*Lethrus apterus* Laxm.) (*Coleoptera, Scarabaeidae*). St. Petersburg, Hor. Soc. Ent. Ross., **37**, 1906, (197-208, Taf.).

Schröder, Christoph. Literatur-Referate. Entomologische Lieferungenwerke. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (361-368).

Schrottky, C. **1.** Neue Evaniiden aus Paraguay. Zs. Hymenopter., Teschendorf, **6**, 1906, (56-62). [*Hymenoptera.*]

Schrottky, C. **2.** Zur Synonymie der Apiden. Zs. Hymenopter., Teschendorf, **6**, 1906, (115-118). [*Hymenoptera.*]

Schrottky, C. **3.** Neue und wenig bekannte südamerikanische Bienen. Zs. Hymenopter., Teschendorf, **6**, 1906, (305-316, incomplete). [*Hymenoptera.*]

Schrottky, C. **4.** Ein neues Genus aus der Familie der *Trigonalidae* von Paraguay. Zs. Hymenopter., Teschendorf, **6**, 1906, (348-350). [*Hymenoptera.*]

Schrottky, C. **5.** Ueber die Lebensweise zweier *Pachymerus* (*Bruchidae*) und ihrer Parasiten. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (98-102). [*Coleoptera, Hymenoptera.*]

Schrottky, C. **6.** Die Nestanlage der Bienengattung *Ptiloglossa* Sm. Zs.

wiss. Insektenbiol., Husum, **2**, 1906, (323-325). [*Hymenoptera*.]

Schrottky, C. 7. Eine merkwürdige Monstruosität an *Carineta formosa* Germ. Entomol. Ztg. Wien, **25**, 1906, (261, 262). [*Homoptera*.]

Schrottky, C. 8. Contribución al conocimiento de los *Himenópteros* del Paraguay. [Contribution to a knowledge of the *Hymenoptera* of Paraguay.] II. An. Cient. Parag., Asunción, **1**, 1906, No. 6, (1-32).

Schubert, K. 1. Beitrag zur *Staphyliniden*fauna Deutsch-Ostafrikas. D. ent. Zs., Berlin, **1906**, (371-377). [*Coleoptera*.]

Schubert, K. 2. Einige neue paläarktische *Staphyliniden* aus Kaschmir. D. ent. Zs., Berlin, **1906**, (378-383).

Schuchert, Charles vide Handlirsch, Anton.

Schülke. Die Abänderung der *Vanesen* und ihre Beziehungen zur Entstehung der Arten. Königsberg, Schr. physik. Ges., **46**, 1906, SitzBer. (142-145). [*Lepidoptera*.]

Schuguirow, A. M. Beitrag zur Cicadienfauna der Krim. Zool. Anz., Leipzig, **30**, 1906, (710-716). [*Homoptera*.]

Schuguirow vide etiam Šugurov.

Schultz, Oscar. 1. Ueber einige bemerkenswerte Aberrationen von *Melitaea aurinia* Rott. Ent. Zs., Guben, **19**, 1906, (205-206). [*Lepidoptera*.]

Schultz, O. 2. Ueber einige Aberrationen aus der Gruppe der *Lycaniden* II. Ent. Zs., Guben, **19**, 1906, (214-215). [*Lepidoptera*.]

Schultz, O. 3. Ueber einige aberrative und gynandromorphe Exemplare aus der Gruppe der *Arctiiden*. Ent. Zs., Guben, **20**, 1906, (26). [*Lepidoptera*.]

Schultz, O. 4. Eine neue Noctuen-Art (*Acrioneta schlumbergeri* Schultz). Ent. Zs., Guben, **20**, 1906, (73-74). [*Lepidoptera*.]

Schultz, O. 5. Beiträge zur Kenntnis der Variabilität palaearktischer *Catocala*-Arten. Ent. Zs., Guben, **20**, 1906, (86-87, 94-95, 100-101). [*Lepidoptera*.]

Schultz, O. 6. Mein Apollo-Fang 1906. Ent. Zs., Guben, **20**, 1906, (117-118). [*Lepidoptera*.]

Schultz, O. 7. Einiges über *Scopeloma satellitia* L. Wien, JahrBer.

Entom. Ver., **16**, (1905), 1906, (36-37). [*Lepidoptera*.]

Schultz, O. 8. Ueber einige Abarten und Varietäten palaearktischer *Rhopaloceren*. Nyt. Mag. Naturv., Kristiania, **44**, 1906, (105-111). [*Lepidoptera*.]

Schultze, Arnold. Eine neue *Pseudacraea* aus Kamerun. Insektenbörse, Leipzig, **23**, 1906, (174). [*Lepidoptera*.]

Schultze vide Ganglbauer, Ludwig.

Schultz-Zehden. Die Zerstörung beider Augen eines Menschen durch Fliegenlarven. Berliner klin. Wochenschrift, **43**, 1906, (286-288). [*Diptera*.]

Schulz, Gustave Leo. *Luperina dumetorum* H. G. und aberr. *bleonnensis*. D. ent. Zs. Iris, Berlin, **19**, 1906, (33-41, 1 Taf.). [*Lepidoptera*.]

Schulz, W. A. 1. Die *Trigonaloiden* des königlichen zoologischen Museums in Berlin. Berlin, Mitt. zool. Mus., **3**, 1906, (203-212). [*Hymenoptera*.]

Schulz, W. A. 2. Die *Hymenopteren* der Insel Creta. [In] Schulz, Spolia hymenopterologica, (8-75).

Schulz, W. A. 3. Strandgut. [In] Schulz Spolia *Hymenopterologica* (77-269).

Schulz, W. A. 4. Die *Hymenopteren* der Insel Fernando Po. [In] Schulz, Spolia hymenopterologica, (270-327).

Schulz, W. A. 5. Spolia *hymenopterologica*. Paderborn (Junfermann), 1906, (iii + 356, 1 Taf.). 23 cm. 8,50 M. [Consists of Einleitung, (1-7), and the preceding three memoirs.]

Schulz, W. A. 6. Die *Trigonaloiden* des zoologischen Museums der Universität Halle. Zs. Hymenopter., Teschen-dorf, **6**, 1906, (389-393). [*Hymenoptera*.]

Schulz, W. A. 7. Die *Trigonaloiden* des Ungarischen National-Museums. Ann. Hist.-Nat. Mus. Nat. Hung., Budapest, **7**, 1906, (263-273). [*Hymenoptera*.]

Schuster, Ludwig. 1. Die Maikäferflugjahre seit 1890 in den Grossherzogth. Hessischen Oberförstereien. Zool. Garten, Frankfurt a. M., **47**, 1906, (26-28). [*Coleoptera*.]

Schuster, L. 2. Ueber den Massenfrass des Eichenwicklers (*Tortrix viridana*). Zool. Beob., Frankfurt a. M., **47**, 1906, (244-245). [*Lepidoptera*.]

Schuster, Wilhelm. 1. *Crioceris asparagi*, var. *linnei* [u. a.] . . . im Mainzer Becken. Biologisches. Wiesbaden, Jahrb. Ver. Natk., **59**, 1906, (145-152). [*Coleoptera*.]

Schuster, W. 2. *Ephippigera ephippigera moguntiacae* [n. var.] Schust. Wiesbaden, Jahrb. Ver. Natk., **59**, 1906, (153-156). [*Orthoptera*.]

Schuster, W. 3. Wann ziehen die Schmetterlinge zu gleicher Jahreszeit mit den Vögeln? Insektenbörse, Leipzig, **23**, 1906, (200).

Schwabe, Josef. Beiträge zur Morphologie und Histologie der tympanalen Sinnesapparate der *Orthopteren*. Zoologica, Stuttgart, H. **50**, 1906, (vi + 154, 5 Taf.).

Schwangart, F. 1. Ueber den Parasitismus von *Dipterenlarven* in Spinnencocons. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (105-107).

Schwangart, F. 2. Literatur-Referate. Neuere Arbeiten über die Anatomie der Insekten. Zs. wiss. Insektenbiol. Husum, **2**, 1906, (169-184).

Schwarz, Otto. 1. Neue *Elateriden* aus Amerika. D. ent. Zs., Berlin, **1906**, (97-158). [*Coleoptera*.]

Schwarz, O. 2. Neue *Elateriden* aus Australien. D. ent. Zs., Berlin, **1906**, (353-369). [*Coleoptera*.]

Schwarz, O. 3. Vier neue *Dicronychiidae*. D. ent. Zs., Berlin, **1906**, (369-370). [*Coleoptera*.]

Schwarz, O. 4. *Coleoptera*. Fam. *Elateridae* [in] Wytsman Genera insectorum, fasc. **45** a, b, c, 1906 and 1907, (1-370, 6 pls.).

(**Schwarz, O.** 5. Drei neue *Elathous*-Arten. Entomol. Ztg., Wien, **22**, 1903, (207-208). [4831].)

Seidlitz, Georg. 1. [Bericht über die wissenschaftl. Leistungen im Gebiete der] Entomologie (Allgemeines) für 1904. Arch. Natg., Berlin, **71**, Bd 2, H. 2, Lfg 1, 1905, [1906], (1-43) = D. ent. Zs., Berlin, **1905**, H. 3, Lfg 1, [1906], (1-43).

Seidlitz, G. 2. [Bericht über die wissenschaftl. Leistungen im Gebiete der] *Coleoptera* für 1904. Arch. Natg., Berlin, **71**, Bd 2, H. 2, Lfg 1, 1905, [1906], (44-360) = D. ent. Zs., Berlin, **1905**, H. 3, Lfg 1, [1906], (44-360).

Seidlitz, G. 3. *Timarcha coriaria* Laich. Eine Literaturstudie. Entomol. Ztg., Wien, **25**, 1906, (277-280). [*Coleoptera*.]

Seidlitz, G. 4. *Heliopterus* Muls. 1851 = *Helophilus* Latr. 1829. Entomol. Ztg., Wien, **25**, 1906, (288-290). [*Coleoptera*.]

Seitner, M. *Resseliella piceae* die Tannensamen-Gallmücke. Wien, Verh. ZoolBot. Ges., **1906**, (174-186). [*Diptera*.]

Seitz, Adalbert. 1. Ueber die von Heinrich Gätke beobachteten Schmetterlinge von Helgoland. J. Ornith., Leipzig, **54**, 1906, Sonderheft, (163-175). [*Lepidoptera*.]

Seitz, A. 2. Die Grosse-Schmetterlinge der Erde. Eine systematische Bearbeitung der bis jetzt bekannten Grossschmetterlinge. In Verbindung mit namhaftesten Fachmännern hrsg. [Vollständig in ca. 100 Lfgn.] Lfg. 1-2. Stuttgart (F. Lehmann), 1906, (1-20, 5 Taf.). 33 cm. Die Lfg 1 M. [*Lepidoptera*.]

Sellards, E[lias] H[oward]. 1. Geological history of cockroaches. Pop. Sci. Mon., New York, N.Y., **68**, 1906, (244-250). [*Orthoptera*.]

Sellards, E. H. 2. Types of Permian insects. [Part 1. *Odonata*.] Amer. J. Sci., New Haven, Conn., Ser. 4, **22**, 1906, (249-258).

Sellards, E. H. 3. *Insecta*. Maryland Geol. Surv., Pliocene and Pleistocene, Baltimore, **1906**, (170-172). [*Coleoptera*.]

Selleger, E. vide Korschilgen, J. P.

Semenov, Andreas. 1. *Coleoptera* nova heptapotamica. Rev. russ. ent., St. Petersburg, **6**, 1906, (3-4).

Semenov, A. 2. *Analecta coleopterologica*. XII. Rev. russ. ent., St. Petersburg, **6**, 1906, (19-20).

[**Semenov, A.** 3. Семеновъ, Андрей. По поводу нахождения *Copris lunaris* L. (*Coleoptera*, *Scarabaeidae*) въ предѣлахъ Московской губернии. [Sur la présence de *Copris lunaris* L. dans la faune du gouvernement de Moscou.] Rev. russ. ent., St. Petersburg, **6**, 1906, (24-25).

[Semenov, A.] 4. Семеновъ, А. Виды рода *Physetops* Mannh. (*Coloptera*, (*Staphylinidae*) и ихъ географическое распределение. [Les espèces du genre *Physetops* Mannh. et leur distribution géographique.] Rev. russ. ent., St. Petersburg, 6, 1906, (53-57).

[Semenov, A., Kuznecov, N., Filipčenko, J., Zaicev, Ph., Baeckman, J., Tarnani, I., Ruzskij, M., Barovskij. B.] Семеновъ, А., Кузнецовъ, Н., Филиппченко, Ю., Зайцевъ, Ф., Бекманъ, Ю., Тарнани, И., Рузскій, М., Баровскій, Б. Критико-библиографическій отдѣлъ. [Revue critico-bibliographique.] Rev. russ. ent., St. Petersburg, 6, 1906, (67-140).

Semichon, Louis. 1. Recherches morphologiques et biologiques sur quelques Mellifères solitaires. Bul. Sci. France Belgique, Paris, 40, 1906, (281-442, pls. xiii-xv). [*Hymenoptera*.]

(Semichon, L. 2. Sur une ponte de la *Melecta armata* Panzer. Paris, Bul. soc. ent., 1904, (188-189). [4631 4619].)

(Semichon, L. 3. Glandes latéro-abdominales chez quelques Mellifères. Paris, Bul. soc. ent., 1905, (127-128). [4607 4631].)

Semper, Georg. 1. *Lepidoptero-logische* Beiträge von Jakob Hübner 1820, Augsburg. D. ent. Zs. Iris, Berlin, 18, (1905), 1906, (237-244).

Semper, G. 2. Beitrag zur *Lepidopterenfauna* des Karolinen-Archipels. D. ent. Zs. Iris, Berlin, 18, (1905), 1906, (245-267).

Sergent, Edmond et Sergent, Etienne. Les Insectes piqueurs, inoculateurs de maladies infectieuses dans l'Afrique du Nord. Paris, C.-R. cong. soc. sav., (Alger), 1905, (125-131).

Sergent, Etienne et Sergent, Edmond.

Severin, G. [and others]. Insectes. [in] Expédition antarctique Belge, Résultats du voyage du s.y. "Belgica." Zoologie, Anvers, 1906, (1-92, 5 pls.). 4to.

[Ševyrev, I. J.] Шевыревъ, И. И. О некоторыхъ жукахъ повреждающихъ ржаную муку. [Ueber einige Käfer, welche Mehlvorräthen schädlich werden.] St. Petersburg, Hor. Soc. Ent. Ross., 37, 1906, (cxviii-cxix). [*Coloptera*.]

Sharp, David. 1. *Insecta*. Zool. Rec., London, 42, 1906, (xiii, 1-312).

Sharp, D. 2. *Carida affinis*, Payk., a beetle new to Britain. Ent. Mag., London, 42, 1906, (220). [*Coloptera*.]

Sharp, W. E. *Lathrobium laevipenne* Heer: an addition to the British list of *Coloptera*. Ent. Mag., London, 42, 1906, (55-57).

Sharpe, Emily M. Descriptions of two new species of *Aeracidae* from Entebbe, Uganda. Ann. Mag. Nat. Hist., London, Ser. 7, 18, 1906, (75, 76). [*Lepidoptera*.]

Shaw, William and Whitehead J. M. Galashiels and District, a guide to the existing fauna. Alnwick, Hist. Berwick Nat. Cl., 19, 1904, (179-199). [*Coloptera*, *Lepidoptera*.]

Sheldon, W. G. The *Lepidoptera* of the central Spanish sierras. Ent. Rec., London, 18, 1906, (57-60, 95-100, pl. i).

Shelford, R. 1. Studies of the *Blattidae*. London, Trans. Ent. Soc., 1906, (231-280, pls. xiv-xvi). [*Orthoptera*.]

Shelford, R. 2. Studies of the *Blattidae*. v-vii. London, Trans. Ent. Soc., 1906, (487-519, pl. xxx). [*Orthoptera*.]

Shelford, R. 3. A list of the butterflies of Borneo. Part II. Singapore, J. Straits R. As. Soc., 1906, No. 45, (89-136). [*Lepidoptera*.]

Shelford, R. 4. Note on the life-history of the Cicindelid beetle, *Collyris emarginatus*, Dej. Singapore, J. Straits R. As. Soc., 1906, No. 45, (283-284). [*Coloptera*.]

Shelford, Victor E. Horn's Systematischer Index der *Cicindeliden*. New York, N.Y., J. Ent. Soc., 14, 1906, (5-8). [*Coloptera*.]

Shipley, A. E. Insects as carriers of disease. Nature, London, 73, (235-238).

Shiraki, T[okuichi]. 1. Die *Blattiden* Japans. Annot. Zool. Jap., Tokyo, 6, 1906, (17-35, pl.). [*Orthoptera*.]

Shiraki, T. 2. Neue *Forficuliden* Japans. Sapporo, Transactions of the Sapporo Natural History Society, 1, 1905-1906, (91-96, pl.). [*Orthoptera*.]

Shiraki, T. vide Matsumura, S

Sicard. 1. Liste des *Coléoptères Coccinellides* recueillis dans le Japon central (Nippon moyen) par M. J. Harmand. Bul. Muséum, Paris, 1906, (145).

Sicard. 2. Liste des *Coléoptères Coccinellides* recueillis en Perse par M. J. de Morgan. Bul. Muséum, Paris, 1906, (145-147).

Sich, Alfred. 1. Contribution to the life-history of *Heliothis peltigera*. Ent. Rec., London, 18, 1906, (283-288). [*Lepidoptera*.]

Sich, A. 2. Notes on the *Microlepidopterous* fauna of the London district. *Tineina*. London, Trans. City Nat. Hist. Soc., 1906, (37-43).

Siepi, P. Catalogue raisonné des *Lépidoptères* du département des Bouches-du-Rhône et de la région de la Sainte-Baume, classé d'après la méthode des Docteurs Staudinger et Rebel. Ann. Mus., Marseille, 9, (1-136, sep. pag.).

Silén, F. 1. Blombiologiska iakttagelser i Kittilä Lappmark. [Bees and flowers.] Helsingfors, Medd. Soc. Fauna Fl. Fenn., 31, 1906, (80-89).

Silén, F. 2. Blombiologiska iakttagelser i södra Finland. [Bees and flowers.] Helsingfors, Medd. Soc. Fauna Flora Fenn., 32, 1906, (120-134).

Silfvenius, A. J. 1. Beobachtungen über die Oekologie der *Trichopterenpuppe*. Zs. wiss. Insektenbiol., Husum, 2, 1906, (88-98).

Silfvenius, A. J. 2. Über die Metamorphose einiger Phryganeiden und Limnophiliden. III. Helsingfors, Acta Soc. Fauna Fl. Fenn., 27, No. 2, 1904, (1-74, 2 pls.). [*Trichoptera*.]

Silfvenius, A. J. 3. Beiträge zur Metamorphose der *Trichopteren*. Helsingfors, Acta Soc. Fauna Fl. Fenn., 27, No. 6, (1-168, 4 pls.).

Silfvenius, A. J. 4. Zur *Trichopterenfauna* von Ladoga-Karelien. Helsingfors, Acta Soc. Fauna Fl. Fenn., 27, 1906, No. 8, (1-16). [Includes n. sp. by Ulmer.]

Silfvenius, A. J. 5. Trichoptero-logische Untersuchungen. I. Über den Laich der *Trichopteren*. Helsingfors, Acta Soc. Fauna Fl. Fenn., 28, No. 4, 1906, (1-128, pl. i, ii).

Silfvenius, A. J. 6. Suomen faunale uusia *Trichoptereja*. Helsingfors, Medd. Soc. Fauna Fl. Fenn., 31, 1906, (102).

Silfvenius, A. J. 7. Über *Agrypnetes crassicornis* McLach. Helsingfors, Medd. Soc. Fauna Fl. Fenn., 31, 1906, (111-117). [*Trichoptera*.]

Silfvenius, A. J. vide Siltala, A. J.

Siltala, A. J. 1. Zum Ueberwintern der *Trichopteren*gattung *Oxyethira*. Zs. wiss. Insektenbiol., Husum, 2, 1906, (356-358).

Siltala, A. J. 2. Zur Kenntnis der Parasiten der *Trichopteren*. I. Beobachtungen über Parasiten der *Trichopteren*. Zs. wiss. Insektenbiol., Husum, 2, 1906, (382-385).

Siltala, A. J. 3. (Silfvenius). 4. Zur *Trichopterenfauna* des Finnischen Meerbusens. Helsingfors, Acta Soc. Fauna Fl. Fenn., 28, No. 6, 1906, (1-21).

Siltala, A. J. 4. (Silfvenius). 5. Über den Laich der *Trichopteren*. [Abstract of Silfvenius, Helsingfors, Acta Soc. Fauna Fenn., V, 1906, No. 4.] Arch. Hydrobiol., Stuttgart, 2, 1906, (21-62, pl. i).

Silvestri, Filippo. 1. Descrizione di un nuovo genere di *Rhipiphoridae*. Redia, Firenze, 3, 1906, (315-324, pl. xx). [*Coleoptera*.]

Silvestri, F. 2. Note sui *Machilidae*. iii-v. Redia, Firenze, 3, 1906, (325-340). [*Thysanura*.]

Silvestri, F. 3. Contribuzione alla conoscenza dei *Termitidi* e termitofili dell'Eritrea. Redia, Firenze, 3, 1906, (341-359).

Silvestri, F. 4. Sviluppo dell'*Ageniaspis fuscicollis* (Dalm.) Thoms. (*Chalcididae*). Roma, Rend. Acc. Lincei, Ser. 5, 15, 1° Sem., 1906, (650-657). [*Hymenoptera*.]

Silvestri, F. 5. Contribuzioni alla conoscenza biologica degli *Imenotteri* parassiti. I. Biologia del *Litomastix truncatellus* (Dalm.). 2ª Nota preliminare. Portici, Ann. Scuola sup. Agric., 6, 1906, (1-51, sep. pag., pls. i-v).

Silvestri, F. vide Berlese, A.

Sitowski, L. 1. Motyle Pienin. [Les *Lépidoptères* de la chaîne de Pieniny dans les Carpathes.] Kraków, Spraw. Kom. fizyogr., 39, 1906, (39-69).

Sitowski, L. 2. Spostrzeżenia biologiczne nad molowcami. [Contribution à la biologie des teignes.] Kraków, Rozpr. Akad. **45**, B, 1905, (239-251, pl.). [*Lepidoptera*.]

Sjöstedt, Yngve. En bestigning af Kilimandjaro's högsta delar. Resebref. [An ascent to the summit of Kilimandjaro.] Entomol. Tidskr., Stockholm, **27**, 1906, (97-118).

Skinner, Henry. 1. On Dr. Dyar's review of the *Hesperidae*. Ent. News, Philadelphia, Pa., **17**, 1906, (110-112). [*Lepidoptera*.]

Skinner, H. 2. A new *Ichnemonid*. Ent. News, Philadelphia, Pa., **17**, 1906, (150). [*Hymenoptera*.]

Skinner, H. 3. New butterflies and moths, with notes on some species. Ent. News, Philadelphia, Pa., **17**, 1906, (95-96). [*Lepidoptera*.]

Skinner, H. 4. Studies of *Pyrgus syrichtus*, *tessellata*, *occidentalis* and *montivagus*. Ent. News, Philadelphia, Pa., **17**, 1906, (277-278, pl.). [*Lepidoptera*.]

Skinner, H. 5. A new variety of *Papilio rutulus* Boisd. Ent. News, Philadelphia, Pa., **17**, 1906, (379). [*Lepidoptera*.]

Skinner, H. 6. A new *Syntomeida*. Ent. News, Philadelphia, Pa., **17**, 1906, (379). [*Lepidoptera*.]

Skinner, H. 7. A new *Cantharis*. Ent. News, Philadelphia, Pa., **17**, 1906, (217). [*Coleoptera*.]

(Skinner, H. 8. Descriptions of new Coleoptera from Arizona, with notes on some other species. Ent. News, Philadelphia, Pa., **16**, 1905, (289-292). [4827 *gi* 4831].)

Slater, Henry H. Victoria County history. Northants *Lepidoptera*. Northampton, J. Nat. Hist. Soc., **13**, 1906, (178-180).

Slevogt, B. 1. Ein interessanter Fang. Insektenbörse, Leipzig, **23**, 1906, (36). [*Lepidoptera*.]

Slevogt, B. 2. Ueber einige asiatische *Lepidopteren*. Insektenbörse, Leipzig, **23**, 1906, (91).

Slevogt, B. 3. Vorläufige Mitteilung. Insektenbörse, Leipzig, **23**, 1906, (152). [*Lepidoptera*.]

Slevogt, B. 4. Ueber heurige Variationsfähigkeit des C-Falters (*Polygonia c-album* L.). Insektenbörse, Leipzig, **23**, 1906, (163). [*Lepidoptera*.]

Slevogt, B. 5. [Notiz über das Geschlechtsleben v. *Aromia moschata*.] Insektenbörse, Leipzig, **23**, 1906, (64). [*Coleoptera*.]

Slingerland, M[ark] V[ernon]. 1. The bronze birch borer [*Agilus anxius*]: an insect destroying the white birch. Agric. Exp. Sta., New York, Ithaca, Bull., No. **234**, 1906, (65-78). [*Coleoptera*.]

Slingerland, M. V. 2. Two new shade-tree pests: sawfly leaf-miners on European elms and alders. Cornell Univ. agric. exp. stat. Bull., **233**, 1905.

Sloane, Thomas G. 1. Revision of the *Cicindelidae* of Australia. Sydney, N.S.W., Proc. Linn. Soc., **31**, 1906, (309-360, pls. xxv-xxxi). [*Coleoptera*.]

Sloane, T. G. 2. Supplement to the revision of the *Cicindelidae* of Australia. Sydney, N.S.W., Proc. Linn. Soc., **31**, 1906, (555-560). [*Coleoptera*.]

(Sloane, T. G. 3. Revisional notes on Australian *Carabidae*. I. Sydney, N.S.W., Proc. Linn. Soc., **29**, 1905, (699-733).)

(Sloane, T. G. 4. Revisional notes on Australian *Carabidae*. II. Sydney, N.S.W., Proc. Linn. Soc., **30**, 1905, (103-135). [4827 *ie* 4831].)

(Sloane, T. G. 5. Five new species of *Cicindela* from tropical Australia. Sydney, N.S.W., Proc. Linn. Soc., **30**, 1905, (229-234, with 1 text fig.). [4827 *ie* 4831].)

(Sloane, T. G. 6. Australian *Carabidae*. Check-list. I. Sydney, N.S.W., Proc. Linn. Soc., **30**, 1905, suppl., (1-18). [4827 *ie*].)

Slosson, Annie Trumbull. Additional list of insects taken in Alpine region of Mt. Washington. Ent. News, Philadelphia, Pa., **17**, 1906, (323-326).

Slowtsoff, [Boris Ivanovič]. 1. Beiträge zur vergleichenden Physiologie des Hungerstoffwechsels. 4. Mitt. Der Hungerstoffwechsel von Hummeln, *Bombus terrestris*. Beitr. chem. Physiol., Braunschweig, **6**, 1904, (170-174). [*Hymenoptera*.]

Slowtsoff, B. 2. Beiträge zur vergleichenden Physiologie des Stoffwechsels. 3. Mitt. Der Hungerstoffwechsel bei *Libellen*. Beitr. chem. Physiol., Braunschweig, **6**, 1904, (163-169). [*Odonata*.]

[**Smirnov, E.**] **1.** Смирновъ, Е. Вторичное совокупление матки. [Wiederholte Begattung einer Bienen-Königin.] Russ. pčelovod. listok, St. Peterburg, **21**, 1906, (301-303). [*Hymenoptera*.]

[**Smirnov, E.**] **2.** Смирновъ, Евгений. Помощь пчелъ другъ другу въ опасности. [Gegenseitige Hilfeleistungen der Bienen in der Gefahr.] Russ. pčelovod. listok, St. Peterburg, **21**, 1906, (353-355). [*Hymenoptera*.]

Smirnov, A. 3. Die Parthenogenese und die Entwicklung des Geschlechts bei den Bienen. (Russ.) Kazan', Trd. Obšč. pčelovod, **1**, **2**, 1905, (9-18). [*Hymenoptera*.]

Smith, Harry S. 1. Some notes on the bee genus *Caupolicana* [from South America]. Ent. News, Philadelphia, Pa., **17**, 1906, (57-58). [*Hymenoptera*.]

Smith, H. S. 2. Some new *Larriidae* from Nebraska. Ent. News, Philadelphia, Pa., **17**, 1906, (246-248). [*Hymenoptera*.]

Smith, John F[ernhardt]. 1. The logical basis of the sanitary policy of mosquito reduction. Science, New York, N.Y., **23**, 1906, (113).

Smith, J. B. 2. Mosquito extermination. Science, New York, N.Y., **23**, 1906, (857-859).

Smith, J. B. 3. New *Noctuidae* for 1906. No. 1. New York, N.Y., J. Ent. Soc., **14**, 1906, (9-30). [*Lepidoptera*.]

Smith, J. B. 4. New species of *Noctuidae* for 1906. No. 2. Canad. Entomol., **38**, 1906, (225-238). [*Lepidoptera*.]

Smits, Alb. 1. *Porthesia auriflua* F. Feuille jeunes natural., Paris, **35**, 1906, (135). [Même sujet: **Frionnet**, C. T. c. p. 152.] [*Lepidoptera*.]

Smits, A. 2. *Tortrix viridana*. Feuille jeunes natural., Paris, **36**, 1906, (135). [*Lepidoptera*.]

Smits, A. 3. Capture dans le département du Nord de *Chloanta polyodon* (*perspicillaris*). Feuille jeunes natural., Paris, **36**, 1906, (167). [*Lepidoptera*.]

Snellen, P. C. T. 1. Aanteekeningen over Nederlandsche *Lepidoptera*. [Notizen über niederländische Lepidopteren.] (Vervolg.) 's Gravenhage, Tijdschr. Ent., **49**, 1906, (199-214).

Snellen, [Pieter Cornelis Tobias] *vide* Piepers, [Marinus Cornelis].

Sokolář, Fr. Carabologische Mitteilungen. Insektenbörse, Leipzig, **23**, 1906, (199-200). [*Coleoptera*.]

Solari, Angelo e Solari, Ferdinando. 1. Una nuova specie di *Dichotrachelus* della Sicilia (*D. ragusae*). Naturalista sicil., Palermo, **18**, 1906, (246-247). [*Coleoptera*.]

Solari, A. e Solari, F. 2. *Curenlioidi* della fauna paleartica. Note e descrizioni. II. Genova, Ann. Museo Civ. st. nat., **42**, 1905-6, (87-101). [*Coleoptera*.]

Solari, A. e Solari, F. 3. Materiali per lo studio dei *Barini*. Genova, Ann. Museo Civ. st. nat., **42**, 1905-6, (418-444). [*Coleoptera*.]

Solari, Ferdinando v. Solari, Angelo.

Solowiow, Paul. Zur Pigmentbildung bei den Schmetterlingen. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (328-329). [*Lepidoptera*.]

Sopp, E. J. B. Note on the birth and infancy of *Dytiscus punctulatus* Fab. Liverpool, Rep. Lancs. Ent. Soc., **1905**, (50-57). [*Coleoptera*.]

Soule, Caroline Gray. Notes on moths. Ent. News, Philadelphia, Pa., **17**, 1906, (395-397). [*Lepidoptera*.]

Soule, Caroline G. *vide* Mayer, Alfred E.

South, Richard. 1. Notes on some forms of *Aplecta nebulosa* in Britain. Entomologist, London, **39**, 1906, (75, 76, pl. v). [*Lepidoptera*.]

South, R. 2. The butterflies of the British isles, with accurately coloured figures of every species and many varieties, also drawings of egg, caterpillar, chrysalis, and food plant. London, 1906, (x + 204, with 127 pls.). 12mo. [*Lepidoptera*.]

Sowers. The mosquitoes of Baltimore. Johns Hopkins Hosp. Bull., Baltimore, Md., **17**, (35, 36). [*Diptera*.]

Soyer, Charles. 1. Sur un type d'ovocytes ramifiés et à forme hydroïde

Paris, C.-R. soc. biol., **61**, 1906, (246-248); Réunion biologique de Nancy, **1906**, (46-48).

Soyer, C. 2. Sur l'ovogenèse de la Punaise des bois. Paris, C.-R. soc. biol., **61**, 1906, (248-250); Réunion biol., Nancy, **1906**, (18-50). [*Hemiptera*.]

Spaeth, Franz. 1. Beitrag zur Kenntnis der ostafrikanischen *Cassiden*. D. ent. Zs., Berlin, **1906**, (385-403). [*Coleoptera*.]

Spaeth, F. 2. *Cassididae*. Nova Guinea, Résultats de l'Expédition scientifique Néerlandaise à la Nouvelle-Guinée en 1903, sous les auspices de Arthur Wichmann, Chef de l'Expédition, **5**, Livr. 1, 1906, (37-38). [*Coleoptera*.]

Speiser, Paul. 1. Ueber die systematische Stellung der *Dipterenfamilie Termitomastidae*. Zool. Anz., Leipzig, **30**, 1906, (716-718).

Speiser, P. 2. Literatur-Referate. Neuere Arbeiten über Tiergeographie, Faunistik und Systematik. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (22-36).

Speiser, P. 3. Literatur-Referate. Neuere Arbeiten über Forstentomologie, sonst schädliche Insekten und deren Feinde. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (60-72, 117-128).

Speiser, P. 4. Literatur-Referate. Neuere Arbeiten zur Faunistik und Tiergeographie, insbesondere auch Cecidiologica. Zs. wiss. Insektenbiol., Husum, **2**, (211-224).

Speiser, P. 5. Literatur-Referate. Neuere Arbeiten über Faunistik, Systematik und Insektenschädlinge. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (258-264).

Speiser, P. 6. Literatur-Referate. Neuere Arbeiten über Biologie einzelner Arten und Gruppen, sowie theoretische und experimentelle Studien. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (297-304, 329-336).

Spitta, E. J. On some experiments relating to the compound eyes of insects. London. J. Quek. Microsc. Cl., ser. 2, **9**, 1906, (263-268).

Sprongerts, J. R. Ueber Dalmatien nach der Herzegowina und Bosnien. D. ent. Zs. Iris, Berlin, **19**, 1906, (6-37). [*Lepidoptera*.]

(N-9720 j)

Spuler, Arnold. Ueber einen parasitisch lebenden Schmetterling. *Bradypodica hahneli* Spuler. Biol. Centrabl., Leipzig, **26**, 1906, (690-697).—Auch in: Festschrift für J. Rosenthal, Tl I, 1906, (88a-88k). [*Lepidoptera*.]

Standfuss, M. 1. [Presidential address.] Schaffhausen, Mitt. schweiz. ent. Ges., **11**, 1906, (153-158).

Standfuss, M. 2. Die Resultate dreissigjähriger Experimente mit Bezug auf Artenbildung u. Umgestaltung in der Tierwelt. Aarau, Verh. schweiz. natf. Ges., **88**, 1906, (263-286). [*Lepidoptera*.]

Stebbing, E[dward] P[ercy]. 1. A note on the preservation of bamboos from the attacks of the bamboo beetle or "shot-borer." Bombay, J. Nat. Hist. Soc., **17**, 1906, (219-223). [*Coleoptera*.]

Stebbing, E. P. 2. Insect life in India and how to study it. Part iv, chap. vii. Bombay, J. Nat. Hist. Soc., **17**, 1906, (424-446). [*Coleoptera*.]

Stebbing, E. P. 3. The effect of the Moon's phases on the period of felling Bamboos. Ind. For., Allahabad, **32**, 1906, (531-540).

Stefanelli, P. Pio Mingazzini. Firenze, Boll. Soc. Entom., **37**, (1905), 1906, (97-106).

(Stefani (De) Perez, T. 1. Osservazioni e notizie sui Culicidi siciliani. Naturalista sicil., Palermo, **18**, N. 1, 1904, (9-13); N. 2-3, 1904, (43-48). [4231 4227 dl.]

(Stefani (De) Perez, T. 2. Note sulle sparse di entomologia. Naturalista sicil., Palermo, **17**, (1904), 1905, (124-128).]

(Stefani (De) Perez, T. 3. Nota biologica sull' *Apion violaceum* Kirby. Naturalista sicil., Palermo, **17**, 1905, (177-179). [*Coleoptera*.]

Stein, P. 1. Die afrikanischen Anthomyiden des königl. Zoologischen Museums zu Berlin. Berliner ent. Zs., **51**, 1906, (33-80). [*Diptera*.]

Stein, P. 2. Die mir bekannten europäischen *Pegomyia*-Arten. Entomol. Ztg., Wien, **25**, 1906, (47-107). [*Diptera*.]

Stein, P. 3. Entgegnung auf Herrn Girschner's Bemerkungen bezüglich des von mir gewählten Namens „Präalar-

borste“. Entomol. Ztg., Wien, **25**, 1906, (127-128). [*Diptera*.]

(Stein, P. 4. Die wahre *Aricia marmorata* Zett. und ihre nächsten Verwandten. Entomol. Ztg., Wien, **22**, 1903, (269-278). [1231].)

Stephan, Julius. 1. *Argynnis aglaia* im Mai? Insektenbörse, Leipzig, **23**, 1906, (188). [*Lepidoptera*.]

Stephan, J. 2. Die Falter und Raupen unserer Bärenschmetterlinge. Natur u Kultur. München, **3**, 1906, (618-624). [*Lepidoptera*.]

Sternberg, Chr. 1. Ueber afrikanische *Coleopteren*. D. ent. Zs., Berlin, **1906**, (161-171).

Sternberg, C. 2. *Nylotrupes inarmatus* nov. spec. D. ent. Zs., Berlin, **1906**, (172). [*Coleoptera*.]

Sternberg, C. 3. Neue *Anthia*-Arten. D. ent. Zs., Berlin, **1906**, (453-462). [*Coleoptera*.]

Stevens, N[ettie] M[aria]. 1. Studies in spermatogenesis. Part 2. A comparative study of the heterochromosomes in certain species of *Coleoptera*, *Hemiptera* and *Lepidoptera*, with especial reference to sex determination. Washington (Carnegie Institution), Publication No. 36, Part 2, 1906, (11 + 33-74, pl.).

Stevens, N. M. 2. Studies on the germ cells of *Aphids*. Washington, Carnegie Institution, Publication No. 51, 1906, (28, pl.).

Stevens, N. M. 3. Studies on the germ cells of *Aphids*. [Reprint.] Bryn Mawr, Pa., Bryn Mawr Coll. Monogr., (Reprint Ser.), **6**, 1906, (3-28, pl.).

Stevens, N. M. 4. A study of the germ cells of *Aphis rosae* and *Aphis oenotherae*. [Reprint.] Bryn Mawr, Pa., Bryn Mawr Coll. Monogr., (Reprint Ser.), **6**, 1906, (313-333, pl.).

(Stevens, N. M. 5. A study of the germ cells of *Aphis rosae* and *Aphis oenotherae*. J. Exp. Zool., Baltimore, Md., **2**, 1905, (313-333, with 4 pl.). [4015].)

Stichel, H. 1. Zur Nomenklaturfrage. Ent. Zs., Guben, **19**, 1906, (189-190, 199-200).

Stichel, H. 2. Neue *Brassoliden* des Pariser Museums. Ent. Zs., Guben, **20**, 1906, (209-216, 217). [*Lepidoptera*.]

Stichel, H. 3. Beitrag zur Kenntnis der *Lepidopteren*-Gattung *Parnassius* Latr. Berliner ent. Zs., **51**, 1906, (81-94, 1 Taf.). [*Lepidoptera*.]

Stichel, H. 4. [Zur Nomenclatur v. *Gonopteryx* u. *Thaumatopecta*.] Insektenbörse, Leipzig, **23**, 1906, (100). [*Lepidoptera*.]

Stichel, H. 5. *Lepidoptera Rhopalocera*. Fam. *Nymphalidae* subfam. *Amathusiinae*. [in] Wytsman Genera insectorum 36^{me} fascicule. 1906, (1-67, pls. i-vi).

Stichel, H. 6. *Lepidoptera Rhopalocera*. Fam. *Nymphalidae* subfam. *Heliconiinae*. in Wytsman Genera insectorum 37^{me} fascicule. 1906, (1-71, pls. i-vi).

Stierlin, G. 1. *Coleopteren*-Fauna der Gegend von Schaffhausen. Schaffhausen, Mitt. Schweiz. ent. Ges., **11**, 1906, (167-220).

(Stierlin. 2. *Cureulionides* de Sicile de la collection du Dr. Stierlin. Naturalista sicil., Palermo, **17**, 1905, (217-218). [*Coleoptera*.])

Stokes, Alfred C. Notes on the markings of the wing-scales of a certain butterfly. London, J. R. Microsc. Soc., **1906**, (648, 649). [*Lepidoptera*.]

Strand, Embr. 1. . . . *Hymenoptera Lepidoptera* . . . [aus Grönland und Ellesnere-Land]. Kristiania, Report of the Second Norwegian Arctic Expedition in the "Fram" 1893-1902, No. 3, 1905, (30).

Strand, E. 3. Nye bidrag til Norges hymenopter- og dipterfauna. [Neue Beiträge zur Hymenopteren- und Dipteren-Fauna Norwegens.] Nyt Mag. Naturv., Kristiania, **44**, 1906, (95-104).

Streiff, Robert Nicolai. Ueber das „unpaare Organ“ der *Dipteren*-familie der *Conopidae*. Zs. wiss. Zool., Leipzig, **84**, 1906, (139-203, mit 2 Taf.).

Stretch, Richard H. *Heterocera americana*. New York, N.Y., J. Ent. Soc., **14**, 1906, (117-125, pl. ii-xii sep. enum.). [*Lepidoptera*.]

Strobl, G. 1. Spanische *Dipteren*. II Beitrag. Madrid, Mem. Soc. esp. Hist. nat., **3**, 1906, (271-422).

Strobl, P. Gabriel. 2. *Neuropteroiden* (Netzflügler) Steiermarks (und Niederösterreichs). Graz, Mitt. Natw. Ver. Steierm., **42**, 1906, (225-266).

Strohmeyer. Ueber das Vorkommen von *Platypus* var. ? *cylindriciformis* Reitt. in Deutschland. Insektenbörse, Leipzig, **23**, 1906, (144). [*Coleoptera*.]

[Šugurov, A.] **1.** Шугуровъ, А. Хлѣбная майка (*Omophilus quadricollis*). [*Omophilus quadricollis*.] Zap. Obsč. seisk. choz. Južn. Ross., Odessa, **75**, 1905, 7-8, (87-94). [*Coleoptera*.]

[Šugurov, A. M.] **2.** Шугуровъ, А. М. Къ лепидоптеро-фаунѣ Херсонской губерніи. [Zur *Lepidopterenfauna* des Chersoner Gouvernements.] Odessa, Mém. Soc. nat., **29**, 1906, (35-82).

[Šugurov, A. M.] **1.** Шугуровъ, А. М. Мелкія ортоптерологическія замѣтки. II. [Notices orthoptérologiques. II.] Rev. russ. ent., St. Petersburg, **6**, 1906, (21-23).

[Šugurov, A. M.] **2.** Шугуровъ, А. М. Къ географическому распространению *Machilinus rupestris* (Lucas) Silv. (*Apterygogenea*, *Machilidae*). [Sur la distribution géographique du *Machilinus rupestris* (Lucas) Silv.] Rev. russ. ent., St. Petersburg, **6**, 1906, (29-31).

Šugurov, A. M. vide Schugurov, A. M.

[Sumakow, W.] Сумаковъ, В. Къ фаунѣ жесткокрылыхъ Прибалтійскаго края (*Coleoptera*). [Zur Fauna der baltischen Coleopteren.] Jurjev, Sitzb. Naturf. Ges., **15**, 1906, (73-74).

Sundvik, Ernst Edv. **1.** Iakttagelser i afseende å *Volucella pellucida*. [Notes and observations on *Volucella pellucida*.] Helsingfors, Medd. Soc. Fauna Fl. Fenn., **32**, 1906, (115-120). [*Diptera*.]

Sundvik, E. E. **2.** Biologiska iakttagelser angående humlorna (humlevåger). [Observations of *Bombus*, *Hymenoptera*.] Helsingfors, Medd. Soc. Fauna Fl. Fenn., **32**, 1906, (156-160).

Surcouf, Jacques. **1.** Note sur les *Mutilles* de la plaine du Chelif, région de Littré (Algérie). Paris, Bul. soc. ent., **1906**, (299). [*Hymenoptera*.]

Surcouf, J. **2.** Nouveaux *Diptères* africains du genre *Tabanus*. Bul. Muséum, Paris, **1906**, (522-525).

Surcouf, J. **3.** *Diptères* nouveaux du genre *Tabanus* rapportés du Fouta-Djalon par M. Chevalier. Bul. Muséum, Paris, **1906**, (525-527).

(x-9720 j)

Surcouf. **4.** Insectes *Diptères* nouveaux du genre *Tabanus* recueillis dans l'Est africain par M. Maurice de Rothschild. Bul. Muséum, Paris, **1906**, (527-529).

Surface, H[arvey] A[dam]. A general systematic study of insects. Pennsylvania Dept. Agric., Mon. Bull. Div. Zool., **3**, 1906, (274-292, pl.); **4**, 1906, (48-72, pl.).

Suschkin, P. Ueber eine *Argynis*-Form vom Tarbagatai (*Lepidoptera*, *Nymphalidae*). Rev. russ. ent., St. Petersburg, **6**, 1906, (5-7).

[Suslov, Sergéj.] Сусловъ, Сергѣй. О фагоцитозѣ, выделительныхъ органахъ и сердцѣ нѣкоторыхъ насекомыхъ (Pterygota). [Ueber die Phagocytose, die Excretionsorgane und das Herz einiger pterygoter Insecten.] St. Petersburg, Trav. Soc. nat., **35**, 4, 1906, (77-128, mit 2 Taf.).

Swenk, M[yrton] H. **1.** New bees of the genus *Colletes*. Ent. News, Philadelphia, Pa., **17**, 1906, (257-260). [*Hymenoptera*.]

Swenk, M. H. **2.** New bees of the genus *Colletes*. Canad. Entomol., **38**, 1906, (39-44). [*Hymenoptera*.]

Swett, Louis W. **1.** A new *Caripeta*. Psyche, Cambridge, Mass., **13**, 1906, (103). [*Lepidoptera*.]

Swett, L. W. **2.** Notes on the genus *Caripeta*, with description of a new species. New York, N.Y., J. Ent. Soc., **14**, 1906, (128-129). [*Lepidoptera*.]

Swezey, O. H. Observations on insects during a recent trip on Hawaii. Honolulu, Proc. Hawaii. ent. Soc., **1**, 1906, (16-19).

Swinhoe, C. **1.** New and little-known species of *Heterocera* from the East. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (283-297). [*Lepidoptera*.]

Swinhoe, C. **2.** Eastern and African *Heterocera*. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (540-556). [*Lepidoptera*.]

Swinhoe, C. **3.** New and little-known species of Eastern and Australian *Heterocera*. Ann. Mag. Nat. Hist., London, ser. 7, **18**, 1906. (403-416). [*Lepidoptera*.]

Szépliget, V[iktor]. 1. Neue exotische *Ichneumoniden* aus der Sammlung des ungarischen National-Museums. Ann. Hist.-Nat. Mus. Nat. Hung., Budapest, **4**, 1906, (119-156). [*Hymenoptera*.]

Szépliget, V. 2. *Braconiden* aus der Sammlung des Ungarischen National-Museums. I. Ann. Hist.-Nat. Mus. Nat. Hung., Budapest, **4**, 1906, (547-618). [*Hymenoptera*.]

Táborsky, W. Fehlen der Totenkopfzeichnung bei *Acherontia atropos* L. Ent. Zs., Guben, **20**, 1906, (53-51). [*Lepidoptera*.]

Takano, Takazō. Asamayama no Chōrui ni tsuite. [On the butterflies of Asama Mountain.] Konch. Sek., Gifu, **10**, 1906, (16-19, 49-51). [*Lepidoptera*.]

[Tarnani, I.] Тарнани, И. Уродства животных. [Monstruosités chez les animaux.] Novo-Aleksandrija, Zap. Inst. sel'sk. choz., **18**, 1906, I, (106-134). [*Lepidoptera*.]

Tarnani, I. vide etiam Semenov, A.

Taschenberg, Otto. 1. Beitrag zur Lebensweise von *Necrobia (Corynetes) ruficollis* F. und ihrer Larve. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (13-17). [*Coleoptera*.]

Taschenberg, E. 2. Die Insekten nach ihrem Schaden und Nutzen. 2. verm. u. verb. Aufl., hrsg. v. Otto Taschenberg. (Das Wissen der Gegenwart. Bd 4.) Leipzig (G. Freytag), 1906, (312). 19 cm. Geb. 3 M.

Tavares, J. S. 1. Descrição de duas *Cecidomyias* novas. [Description of two new *Cecidomyiæ*.] Broteria, **3**, (298-301). [*Diptera*.]

Tavares, J. S. 2. Descrição de um *Cynipide* novo. [Description of a new *Cynipid*.] Broteria, **3**, 1904, (301). [*Hymenoptera*.]

Tavares, J. S. 3. Synopse das zoocecidias portuguesas. [Synopsis of the Portuguese *Zoocecidiae*.] Broteria, **4**, 1905, (i-xii, 1-136, pl. i-xiv).

Tavares, J. S. 4. Notas cecidologicas. [Cecidological notes.] Broteria, **5**, 1906, (77-80). [*Diptera*.]

Tavares, J. S. 5. Descrição de uma *Cecidomyia* nova do Brazil pertencente a um genero novo. [Description of a new Brazilian *Cecidomyia* belonging to a new genus.] Broteria, **5**, 1906, (81-84). [*Diptera*.]

Tavares, J. S. 6. Notas Orthopterologicas. I. A familia das *Phasmidae* em Portugal. [Orthopterological notes. I. The family *Phasmidae* in Portugal.] Broteria, **5**, 1906, (84-93).

Tavares, J. S. 7. Os nossos conhecimentos actuaes sobre os mosquitos e doenças por elles transmittidas—febre amarella, malária e filariose. [Our present knowledge of mosquitoes and of the diseases transmitted by them—yellow fever, malaria and filariasis.] Broteria, **5**, 1906, (185-204, pl. xii). [*Diptera*.]

Tavares, J. S. 8. Descrição de tres *Cecidomyias* hespanholas novas. [Description of three new Spanish *Cecidomyiæ*.] Broteria, **3**, (293-297). [*Diptera*.]

Taylor, George W. 1. Some new *Geometridæ* from Arizona. New York, N.Y., J. Ent. Soc., **14**, 1906, (130-131). [*Lepidoptera*.]

Taylor, G. W. 2. On some new species of *Geometrid* moths from Arizona and California. Ent. News, Philadelphia, Pa., **17**, 1906, (188-192). [*Lepidoptera*.]

Taylor, G. W. 3. On the species of *Eupithecia* occurring at Calgary, Alberta, with descriptions of four supposed to be new. Canad. Entomol., **38**, 1906, (101-104). [*Lepidoptera*.]

Taylor, G. W. 4. On *Aeidalia subulbaria* Packard, and some allied forms. Canad. Entomol., **38**, 1906, (111-112). [*Lepidoptera*.]

Taylor, G. W. 5. Descriptions of two new *Geometrid* moths from Alberta. Canad. Entomol., **38**, 1906, (205-206). [*Lepidoptera*.]

Taylor, G. W. 6. On the occurrence in Canada of *Himera pennaria*, Linn., a European *Geometrid* moth. Canad. Entomol., **38**, 1906, (220). [*Lepidoptera*.]

Taylor, G. W. 7. Some new *Geometridæ* from British Columbia. Canad. Entomol., **38**, 1906, (389-405). [*Lepidoptera*.]

Taylor, G. W. 8. *Eupithecia youngata*. A Geometrid moth new to science. Ottawa Nat., **19**, 1906, (225-227). [*Lepidoptera*.]

Terry, F. W. The increase of the antennal segments in the Forficulids *Chelisoehes morio* (Fabricius) and *Forficula auricularia* Linnaeus. Honolulu, Proc. Hawai. ent. Soc., **1**, 1906, (58). [*Orthoptera*.]

(Tertrin, Paul. Coléoptères (Pausides, Silphides, Temnochilides, Lucanides, Scarabéides, Buprestides, Clérides, Méloïdes). Mission Pavie, **3**, 1901, (84-85, 93).)

Theobald, F. V. 1. Animal pests and legislation. London, Proc. Ass. econ. Biol., **1**, 1906, (29-74).

Theobald, F. V. 2. Notes on African cotton insects. Entomologist, London, **39**, 1906, (27-30).

Theobald, F. V. 3. Some notable instances of the distribution of injurious insects by artificial means. Sci. Progress, London, **1**, 1906, (58-72).

Theobald, F. V. 4. Human and animal pests. (Report on economic entomology, pt. ii). Khartoum, Rep. Wellcome Res. Lab., **2**, 1906, (83-92, pl. x).

Theobald, F. V. 5. Vegetal pests. (Report on economic entomology, pt. iii). Khartoum, Rep. Wellcome Res. Lab., **2**, 1906, (93-96).

[Theobald], F. V. T. 6. A larch sawfly in Cumberland. Nature, London, **74**, 1906, (529). [*Hymenoptera*.]

Theobald, F. V. 7. A new *Megarhinus*. Entomologist, London, **39**, 1906, (241). [*Diptera*.]

(Theobald, F. V. 8. The mosquitoes of Egypt, the Sudan, and Abyssinia. Khartoum, Rep. Wellcome Res. Lab., **1**, 1901, (62-83).)

Theobald, F. V. 10. The currant root-aphis. (*Schizoneura fodiens* Buckton.) Washington, D.C., Bull., U. S. Dept. Agric., Bur. Ent., No. **60**, 1906, (166-170). [*Aphidae*.]

Theobald, F. V. 11. Report on economic entomology. Part I, second report on the mosquitoes of *Culicidae* of the Sudan, (67-83). Part II, human and animal pests, (83-92). Part III,

vegetal pests, (93-96). Rep. Wellcome Lab., Khartoum, **2**, 1906.

Theobald, F. V. 12. Report on the orchards and fruit plantations of Worcestershire with a short account of some of the worst diseases observed, and suggestions for their treatment. Worcester, 1906, (1-30). Svo.

Théry, A. 1. Remarques sur le genre *Tulodis* Esch. Paris, Bul. soc. ent., **1906**, (124-127). [*Coleoptera*.]

(Théry, A. 2. Espèces nouvelles de Buprestides exotiques. Paris, Bul. soc. ent., **1904**, (73-76, av. fig.). [4831 4827 hf ff et ef].)

Thiele, Herm. Eine neue *Tenaris*-Form. Insektenbörse, Leipzig, **23**, 1906, (40). [*Lepidoptera*.]

Thienemann, August. Tiroler *Trichopteren*. Innsbruck, Zs. Ferd., **49**, 1905, (383-393).

Thienemann, A. vide Kieffer, J. J.

(Thierry-Mieg, Paul. 1. Descriptions de Lépidoptères nouveaux. Naturaliste, Paris, (sér. 2), **26**, 1904, (140-141, 182-183). [4431 4427 hf df].)

(Thierry-Mieg, P. 2. Description de Lépidoptères nouveaux. Naturaliste, Paris, **27**, 1905, (181-182, 191-193). 4431.]

Thiselton-Dyer, Sir W. T. [and others]. The wild fauna and flora of the Royal botanic gardens, Kew. Kew Bull. London, additional series, **5**, 1906, (vi + 223).

[Thompson, Millett T. Alimentary canal of the mosquito. Boston, Mass., Proc. Soc. Nat. Hist., **32**, 1904-1906, (145-202, pls. xii-xvii). [*Diptera*.])

Thorsen, J[ohan] G[otlieb]. Fjærspinderen. [*Bombyx pini* in Norwegen.] Kristiania, Tidssk. Skogbr., **14**, 1906, (334-338). [*Lepidoptera*.]

Tillyard, R. J. 1. Descriptions of three new species of *Austrogomphus* [*Neuroptera: Odonata*]. Sydney, N.S.W., Proc. Linn. Soc., **30**, 1906, (547-554, pl. xxxiv).

Tillyard, R. J. 2. New Australian species of the family *Agrionidae* [*Neuroptera: Odonata*]. Sydney, N.S.W., Proc. Linn. Soc., **31**, 1906, (177-194, pl. xvii).

Tillyard, R. J. 3. Life-history of *Lestes leda* Selys. Sydney, N.S.W., Proc. Linn. Soc., **31**, 1906, (409-423, pls. xxxii, xxxiii). [*Odonata.*]

Tillyard, R. J. 4. New Australian species of the family *Libellulidae*. Sydney, N.S.W., Proc. Linn. Soc., **31**, (480-492, pl. xlv). [*Odonata.*]

(Tillyard, R. J. 6. On dimorphism in the female of *Ischnura heterosticta* Burm. Sydney, N.S.W., Proc. Linn. Soc., **30**, 1905, (302-306). [3819 3831].)

(Tillyard, R. J. 7. On the supposed numerical preponderance of the males in *Odonata*. Sydney, N.S.W., Proc. Linn. Soc., **30**, 1905, (344-349). [3819].)

Timm, W. Verzeichnis der in der Umgegend von Hamburg vorkommenden *Odonaten*. Insektenbörse, Leipzig, **23**, 1906, (134-135, 140, 147-148, 151, 155).

Tiraboschi, Carlo. Scomparsa della malaria dalla pianura di Albenga e persistenza delle zanzare del gen. *Anopheles*. Roma, Atti Soc. studi malaria, **7**, 1906, (19-24). [*Diptera.*]

Tomlin, J. R. le B. Some notes on Manx *Coleoptera*. Rep. Lancast. ent. Soc., **1905**, (45-49).

Tomlin, J. R. le B. vide Joy, N. H.

Torka, V. 1. Zwei Feinde des gemeinen Wachholders (*Juniperus communis* L.). [*Phloeosinus* (*Hylesinus*) *thujae* Perris u. *Callidum castaneum* Redtb.] Natw. Zs. Landw., Stuttgart, **4**, 1906, (399-404). [*Coleoptera.*]

Torka, V. 2. Vermag *Vanessa urticae* L. als Puppe zu überwintern? Zugleich Beobachtungen über das Vorkommen der *Vanessa*-Arten an der Westgrenze der Provinz Posen. Posen, Zs. D. Ges. Wiss., natw. Abt., **13**, 1906, (51-55). [*Lepidoptera.*]

Tower, W. L. 1. Observations on the changes in the hypodermis and cuticula of *Coleoptera* during metamorphosis. Woods Holl, Mass., Mar. Biol. Lab. Bull., **10**, 1906, (176-192).

Tower, William L. 2. Experimental investigations of the production and preservation of new characters, races and species in insects. Washington, D.C., Carnegie Inst., Year Book No. **4**, (1905), 1906, (286-288).

Tower, William Lawrence. 3. An investigation of evolution in chrysomelid beetles of the genus *Leptinotarsa*. Papers of the Station for Experimental Evolution at Cold Spring Harbor, New York, No. **4**. Washington, D.C. (Carnegie Institution), [Publication No. **48**], 1906, (x + 320 + 11., maps, pl.) [*Coleoptera.*]

Tower, W. V. 4. A new method of preparing wings and other parts of insects for study. Ent. News, Philadelphia, Pa., **17**, 1906, (218-219).

Toyama, Kametaro. 1. Mendel's laws of heredity as applied to the silkworm crosses. Biol. Centralbl., Leipzig, **26**, 1906, (321-334, Tab.). [*Lepidoptera.*]

Toyama, K. 2. On the polygamous habits of the silkworm. Tokyo, Bull. Coll. Agric., **7**, 1906, (125-245). [*Lepidoptera.*]

Toyama, K. 3. On some Silkworm crosses, with special reference to Mendel's law of heredity. Tokyo, Bull. Coll. Agric., **7**, 1906, (259-393, 6 pls.). [*Lepidoptera.*]

Toyama, K. 4. On the hybridology of the silkworms. Tokyo, Nip. Sanshi Kw. Hō, **168**, 1906, (1-15). [*Lepidoptera.*]

Toyama, K. 5. On the parasitic fly of the domesticated silkworms of Siam. Tokyo, Nip. Sanshi Kw. Hō, **173**, 1906, (1-10, pl.). [*Diptera.*]

Trimen, Roland. On some new or hitherto unfigured forms of South-African butterflies. London, Trans. Ent. Soc., **1906**, (59-83, pls. iv, v, vi). [*Lepidoptera.*]

Troop, James. A new *Aphid.* Ent. News, Philadelphia, Pa., **17**, 1906, (59-60).

Trotter, A. 1. Bibliografia e recensioni [di galle]. Marcellia, Avellino, **5**, 1906, (i-xi).

Trotter, A. 2. Miscellanea cecidologiche. III. Marcellia, Avellino, **5**, 1906, (75-80).

Trotter, A. 3. Nuovi zoocicidii della flora italiana, quinta serie. Marcellia, Avellino, **5**, 1906, (111-123).

[**Tschetverikow, S. S.**] Четвериковъ, С. С. Списокъ бабочекъ съ Аральскаго моря. [Verzeichnis der an den Küsten des Aralsees gesammelten

Schmetterlinge.] Taškent, Izv. Turk. Otd. Russ. Geogr. Obšč., **4**, 7, 1906, (30-36). [*Lepidoptera*.]

Tschitschérin, T†. Notes détachées sur les Harpalini (*Coleoptera*, *Carabidae*) de l'Asie orientale (Oeuvre posthume) [ed. par A. Semenov]. St. Peterburg, Hor. Soc. Ent. Ross., **37**, 1906, (217-292).

Tsuboi, Keisaku, Nikwasei Jinkō-sankwasan ni tsuite. [On the artificial change of bivoltine race of silkworms into trivoltine.] Tokyo, Nip. Sanshi Kw. Hō, **171**, 1906, (5-7). [*Lepidoptera*.]

Tucker, Elbert S. Determinations of some Texas *Coleoptera* with records. Ent. News, Philadelphia, Pa., **17**, 1906, (10-14).

Tullgren, Albert. **1**. Om Sköldlus. [On the scale-insect.] Entomol. Tidskr., Stockholm, **27**, 1906, (69-95). [*Coccidae*.]

Tullgren, A. **2**. Zur Kenntnis schwedischer *Conionpterygiden*. Ark. Zool., Stockholm, **3**, No. 5, (1-15). [*Neuroptera*.]

Tulloch. The internal anatomy of *Stomoxys*. London, Proc. R. Soc., **77B**, 1906, (523-531). [*Diptera*.]

Tulloch, F. M. G. [the late] *vide* Minchin, E. A.

(**Turati**, Emilio. Alcune nuove forme di Lepidotteri. Naturalista sicil., Palermo, **18**, 1905, (25-48, con 9 tav.).)

Turner, A. Jefferis. **1**. New Australian *Lepidoptera*, with synonymic and other notes. Adelaide, S. Aust., Trans. R. Soc., **30**, 1906, (118-142).

Turner, A. J. **2**. A preliminary revision of the Australian *Thyrididae* and *Pyalidae* Part ii—continued from p. 63. Brisbane Proc. R. Soc. Queensland, **19**, 1906, (89-90). [*Lepidoptera*.]

Turner, A. J. **3**. A note on the localities attributed to Australian *Lepidoptera* by Mr. Oswald Lower. Adelaide, S. Aust., Trans. R. Soc., **30**, 1906, (191-198).

(**Turner**, A. J. **4**. Revision of Australian *Lepidoptera* II. Sydney, N.S.W., Proc. Linn. Soc., **29**, 1905, (832-859).)

Turner, C. H. A preliminary note on ant behavior. Woods Holl, Mass., Mar. Biol. Lab. Bull., **12**, 1906, (31-36). [*Hymenoptera*.]

(**Turner**, Rowlands E. *vide* Waterhouse, G. A.)

Tutt, J. W. **1**. A study of the generic names of the British *Lycaenides* and their close allies. Ent. Rec., London, **18**, 1906, (129-132). [*Lepidoptera*.]

Tutt, J. W. **2**. Practical hints relating to the Eupitheciids. Ent. Rec., London, **18**, 1906, (179-182, 201, 218). [*Lepidoptera*.]

Tutt, J. W. **3**. Catalogue of the palaearctic *Urbicolides*. Ent. Rec., London, **18**, 1906, (195-198). [*Lepidoptera*.]

Tutt, J. W. **4**. A natural history of British *Lepidoptera*. Vol. V. London, 1906, (xiii + 558, pls. i-v). Svo.

Tutt, J. W. **5**. A natural history of the British butterflies. London, 1905 and 1906. [Same work as the following, but issued in parts; 17 parts published to December, 1906.]

Tutt, J. W. **6**. A natural history of the British *Lepidoptera*. Vol. 8. London, 1906, (iii + 479, pls. i-xv). Svo.

Uffeln, K. Ein Zwitter von *Saturnia pavonia* L. D. ent. Zs. Iris, Berlin, **18**, (1905), 1906, (278-279). [*Lepidoptera*.]

(**Uhler**, P. R. Recognition of two North American species of *Cicada* Latr. Ent. News, Philadelphia, Pa., **16**, 1905, (74-77). [4027 *gf* 4031].)

Uhryk, Tivadar. Adatok Magyarorszag lepke-faunájához. [Beiträge zur Schmetterlingsfauna von Ungarn.] Rovart. L., Budapest, **13**, 1906, (75-76). [*Lepidoptera*.]

Ule, Ernst. **1**. Ameisenpflanzen. Bot. Jahrb., Leipzig, **37**, 1906, (335-352, 2 Taf.). [*Hymenoptera*.]

Ule, E. **2**. Ameisenpflanzen des Amazonasgebietes. (Vegetationsbilder. hrsg. von G. Karsten und H. Schenck. Reihe 4, H. 1.) Jena (G. Fischer), 1906, (6 Taf. mit Erläut.). 31 cm. 4 M.

Ule, E. **3**. Eigentümliche mit Pflanzen durchwachsene Ameisennester am Amazonenstrom. Natw. Wochenschr., Jena, **21**, 1906, (145-150, mit 1 Taf.). [*Hymenoptera*.]

Ulmer, Georg. 1. Uebersicht über die bisher bekannten Larven europäischer *Trichopteren*. Zs. wiss. Insektenbiol., Husum, **2**, 1906, (111-117, 162-168, 209-214, 253-258, 288-296).

Ulmer, G. 2. Über die Larve einer brasilianischen *Trichopteren*-Species (*Tripletides gracilis* Burm.) und verwandte Formen aus Neu-Seeland und Indien. Ann. Biol. lacustre, Bruxelles, **1**, 1906, (32-39).

Ulmer, G. 3. Neuer Beitrag zur Kenntnis aussereuropäischer *Trichopteren*. Leiden, Notes Mus. Jentink, **28**, 1906, (1-116).

Ulmer vide Silfvenius, A. J.

Vachal, J. 1. Sur les Abeilles (*Apidae*) de la période glaciaire. Paris, Bul. soc. ent., **1906**, (131-134, 179). [*Hymenoptera*.]

(**Vachal, J.** 2. *Manuelia*, un nouveau genre d'Hyménoptères mellifères. Paris, Bul. soc. ent., **1905**, (25-26). [4631])

(**Vachal, J.** 3. Les Insectes actuels témoins des révolutions du globe. Paris, Bul. soc. ent., **1905**, (68-70). [3503].)

(**Vachal, J.** 4. *Lonchopria*, un nouveau genre d'Hyménoptères de la famille *Apidae*. Paris, Bul. soc. ent., **1905**, (204). [4631 4627 *hk*].)

(**Vachal, J.** 5. Hyménoptères du Congo français rapportés par l'Ingénieur J. Borysson—Mellifera. Paris, Ann. soc. ent., **72**, 1903, (358-400). [4631 4627 *fd*].)

(**Vachal, J.** 6. Voyage de M. G. A. Baer au Tucuman (Argentine). *Hymenoptera mellifera* (*Apidae*). Rev. ent., Caen, **23**, 1904, (9-26). [4627 *hi* 4631].)

(**Vachal, J.** 7. Etude sur les *Halictus* d'Amérique. Misc. ent., Narbonne, **11**, 1903, (89-104, 121-136); **12**, 1904, (9-24, 113-128, 137-144). [4631 4627 *h g*].)

Vadas, Jenő. A jegenyefenyő-gyökértetű, *Pemphigus* (*Holzneria*) *poschingeri* Holzner, károsításáról. [Über die Schädigung des *Pemphigus* (*Holzneria*) *poschingeri* Holzner.] Erd. kis., Selmeczbánya, **8**, 1906, (192-193). [*Aphidae*.]

Van Dine, D. L. Notes on a comparative anatomical study of the mouth-parts of adult saw-flies. Honolulu,

Proc. Hawai. ent. Soc., **1**, 1906, (19-22, pl. i). [*Hymenoptera*.]

Van Duzee, E. F. 1. Notes on *Hemiptera* taken by W. J. Palmer, near Lake Temagami, Ont. Canad. Entomol., **38**, 1906, (406-411).

Van Duzee, E. P. 2. New North American *Heteroptera*. Ent. News, Philadelphia, Pa., **17**, 1906, (384-391).

[**Van Duzee, E. P.** 3. List of *Hemiptera* taken in the Adirondack mountains. Albany, N.Y., St. Mus. Bull., **97**, (Entomology, **24**), 1905, (546-556).]

Vaney, C. vide Conte, A.

Váncsel, Jenő. Adatok Magyarországi rovar-faunájához. IV. Coleoptera. [Beiträge zur Insektenfauna von Ungarn. iv. *Coleoptera*.] Rovart. L., Budapest, **13**, 1906, (10-42).

Van Leeuwen, W. Docters vide Reijkaan, Jenny.

Varendorff, O. von. Kleine entomologische Notizen. Entomol. Ztg., Wien, **25**, 1906, (210-212). [*Coleoptera*.]

[**Vasiljev, E. M.** 1. Васильевъ, Е. М. Личинки майскихъ жуковъ, какъ вредители сахарной свекловичной первостепенной важности. [Die Larven der Maikäfer als ausserordentlich wichtige Schädlinge der Runkelrübe.] Věst. sacharn. promysl., Kiev, **7**, 1906, 1, (139-143). [*Coleoptera*.]

[**Vasiljev, E. M.** 2. Васильевъ, Е. М. Новый вредитель свекловичной изъ земныхъ блохъ (*Halticini*). [Ein neuer Schädling der Runkelrübe unter den Erdflöhen (*Halticini*).] Věst. sacharn. promysl., Kiev., **7**, 1906, 2, (548-556, 589-595). [*Coleoptera*.]

[**Vasiljev, E. M.** 3. Васильевъ, Е. М. Естественные враги капустной и доникової совокъ (*Mamestra brassicae* L. u. *M. dissimilis* Knoch), повреждающихъ листья у свекловичной. [Die natürlichen Feinde der Kohleule und von *Mamestra dissimilis* Knoch.] Věst. sacharn. promysl., Kiev, **5**, 1904, 2, (911-918). [*Lepidoptera*.]

[**Vasiljev, E. M.** 4. Васильевъ, Е. М. Свекловичная муха-цвѣточница (*Anthomyia conformis* Fall). [Die Runkelfliege (*Anthomyia conformis*).] Věst. sacharn. promysl., Kiev, **6**, 1905, 2, (802-804). [*Diptera*.]

Vaucher, A. Sur la *Syntomis alicia*, espèce aujourd'hui paléarctique. Feuille jeunes natural., Paris, **36**, 1906, [1905], (13). [*Lepidoptera*.]

Ventrillon, E. 1. *Culex* nouveaux de Madagascar. Bul. Muséum, Paris, **1906**, (100-106). [*Diptera*.]

Ventrillon, E. 2. *Stegomyia cartroni*, *Culicid*e nouveau de Madagascar. Bul. Muséum, Paris, **1906**, (143-145). [*Diptera*.]

Ventrillon, E. 3. *Cellia tanamaririen-sis*, *Culicid*e nouveau de Madagascar, 9^e genre de la sousfamille des *Anophe-lina*. Bul. Muséum, Paris, **12**, 1906, (198-202). [*Diptera*.]

[**Ventrillon, E. 4.** *Culicid*es nouveaux de Madagascar. Bul. Muséum, Paris, **1905**, (427-431). [*Diptera*.]]

(**Ventrillon, E. 5.** *Culicid*es nouveaux de Madagascar. Arch. parasit., Paris, **9**, 1905, (441-450). [4231 1227 fh].)

Verhoeff, Karl W. Vergleichend-morphologische Studie über die coxopleuralen Körperteile der Chilopoden mit besonderer Berücksichtigung der *Scotopendromorpha*, ein Beitrag zur Anatomie und Systematik derselben, nebst physiologischen und phylogenetischen Mitteilungen und Ausblicken auf die Insekten. Halle, Nova Acta Leop., **86**, 1906, No. 2, (349-501).

Verity, Roger. 1. *Rhopalocera* palaeartica. Livr. 4-6, (37-68, 7 plates irregularly numbered).

(**Verity, R. 2.** Description et métamorphose d'une nouvelle *Oryza*. Paris, Bul. soc. ent., **1905**, (59-61). [4431 4415].)

Verrall, G. H. Obituary. Baron Charles Robert v. d. Osten Sacken. Ent. Mag., London, **42**, 1906, (234).

Verrill, A[lpheus] Hyatt. Descriptions of two remarkable new species of Goliath beetles (*Dynastes*) from Dominica island, Antilles. [Brief contributions to zoology from the museum of Yale University, No. **66**.] Amer. J. Sci., New Haven, Conn., Ser. 4, **21**, 1906, (317-320). [*Coleoptera*.]

(**Vevey Artault de, S.** Pseudoparasitisme du *Thrips*. Paris, Bul. soc. zool., **27**, 1902, (207-209).)

Viard. Captures [de *Microlepidoptères* nouveaux pour la faune française]. Paris, Bul. soc. ent., **1906**, (150-151).

Viehmeier, H. Beiträge zur Ameisenfauna des Königreiches Sachsen. Dresden, SitzBer. Isis, **1906**, (55-69, pl. iii). [*Hymenoptera*.]

Vielledent, P. *Lepidopteros* da região de Setubal. Broteria, **4**, 1905, (185-206).

Viereck, H. L. 1. New species of *Vespoidea* from Connecticut. Ent. News, Philadelphia, Pa., **17**, 1906, (302-305). [*Hymenoptera*.]

Viereck, H. L. 2. Notes and descriptions of *Hymenoptera* from the western United States. Philadelphia, Pa., Trans. Amer. Ent. Soc., **32**, 1906, (173-247).

Villard, Jules. Chlorophylle et matière verte du cocon d'Yama-Mai. (Réponse à M. Cl. Gantier.) Paris, C.-R. soc. biol., **61**, 1906, (592-593). [*Lepidoptera*.]

(**Villeneuve, J. 1.** Coup d'œil sur la faune diptérologique des Alpes françaises. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1901, 2^e Partie), 1905, (883-889). [4227 df 4231].)

Villeneuve, J. 1a. Description de 2 nouvelles espèces de *Limnophora* des bords de la Méditerranée. Entomol. Ztg., Wien, **25**, 1906, (28-30). [*Diptera*.]

(**Villeneuve, J. 2.** Contribution au Catalogue des Diptères de France. (Notes complémentaires et rectificatives.) Feuille jeunes natural., Paris, sér. 4, **35**, 1905, (58-64). [4227 df 4231].)

Villeneuve, J. 2a. Notes diptérologiques. Entomol. Ztg., Wien, **25**, 1906, (43-44).

Villeneuve, J. 3. Notes synonymiques sur quelques *Muscides*. Entomol. Ztg., Wien, **25**, 1906, (247-248). [*Diptera*.]

Villeneuve, J. 4. Sur quelques espèces méconnues après Robineau-Desvoidy. Entomol. Ztg., Wien, **25**, 1906, (285-287). [*Diptera*.]

Villeneuve, J. 5. Contribution au catalogue des *Diptères* de France (suite). Feuille jeunes natural., Paris, **36**, 1906, (108-113).

Vitale, Francesco. 1. Forme nuove di *Cureulionidae* siciliani. *Naturalista sicil.*, Palermo, **18**, 1906, (131-136, continua). [*Coleoptera.*]

Vitale, F. 2. Note topografiche [di *Coleotteri* italiani]. *Riv. Coleotter. ital.*, Camerino, **4**, 1906, (156-166).

(**Vitale, F.** 3. I Cossonini Siciliani. Nota viii. *Naturalista sicil.*, Palermo, **17**, N. 1, 1904, (14-17), N. 2-3, 1904, (26-41).) [4831 4827 *dh.*]

(**Vitale, F.** 4. Contributo allo studio dei *Coleotteri* di Sicilia. I *Coccinellidi*. *Naturalista sicil.*, Palermo, **17**, 1905, (193-200, 219-229). [*Coleoptera.*].)

Völker, U. Zucht von *Plusia ni* aus dem Ei. *Ent. Zs.*, Guben, **20**, 1906, (13). [*Lepidoptera.*]

Vogel, W. T. de. *Anopheles* muskieten in zeewater. [Anophelesmosquitoes in seawater.] Batavia, Geneesk. Tijdschr. Ned. Ind., **46**, 1906, (66-85). [*Diptera.*]

Vogler, P. Zooecidien von St. Gallen und Umgebung. 1. St. Gallen, *Jahrb. naturw. Ges.*, **1905**, 1906, (311-342).

Vogt, Arthur. *Perisomena caecigera*. *Ent. Zs.*, Guben, **20**, 1906, (148). [*Lepidoptera.*]

Voland, F. Zwitter von *Smerinthus populi*. *Ent. Zs.*, Guben, **20**, 1906, (118). [*Lepidoptera.*]

Volkmer. Die Nonne (*Liparis monacha*). Lebensweise, Vorbeugungs- und Vertilgungsmassregeln. *Landw. Wochenschr.*, Halle, **8**, 1906, (162-163). [*Lepidoptera.*]

Vorbringer, G. 1. Sammelbericht aus Ostpreussen für das Jahr 1905. *D. ent. Zs.*, Berlin, **1906**, (470-471). [*Coleoptera.*]

[**Vorbringer, G.** 2. *Dromius cordicollis* Vorb. *D. ent. Zs.*, Berlin, **1906**, (471-472). [*Colcoptera.*]

Vorhies, C. T. *vide* Marshall, Wm. S.

Vosseler, J[ulius]. 1. Insektenwanderungen in Usambara. *Insektenbörse*, Leipzig, **23**, 1906, (68, 70-71, 75, 77-78).

Vosseler, J. 2. Eine *Psyllide* als Erzeugerin von Gallen am Mwulebaum (*Chlorophora excelsa* (Welw.) Benth. et

Hook). *Zs. wiss. Insektenbiol.*, Ilusum, **2**, 1906, (276-285, 305-316). [*Homo-ptera.*]

Vosseler, J. 3. Ein Feind des Mwulebaums [*Chlorophora excelsa*]. [Benth. u. Hook.] *Pflanzer, Tanga*, **2**, 1906, (57-63).

Vosseler, J. 4. Ein seltener Parasit der Hamsterratte Ostafrikas. [*Hemimerus talpoides* Walk.] *Pflanzer, Tanga*, **2**, 1906, (63-64). [*Orthoptera.*]

Vosseler, J. 5. Die bunte Stinkschrecke. *Pflanzer, Tanga*, **2**, 1906, (65-68). [*Orthoptera.*]

Vuillemin, Paul. La Mante religieuse en Lorraine. Feuille jeunes natural., Paris, **36**, 1906, [1905], (30-31). [*Orthoptera.*]

Wagner, Fritz. Ein gynandromorphes Exemplar von *Stegania dilectaria*. *Insektenbörse*, Leipzig, **23**, 1906, (104). [*Lepidoptera.*]

[**Wagner, J.**] Вагнеръ, Ю. Систематическій обзоръ видовъ *Aphaniptera*, описанныхъ до 1904 г. [Revue systématique des Aphaniptères décrits jusqu'en 1904.] *St. Peterburg, Hor. Soc. Ent. Ross.*, **37**, 1906, (439-471, Taf. ii).

Wagner, M. Psychobiologische Untersuchungen an Hummeln. Tl 1. *Zoologica*, Stuttgart, II. **46** 1 (= Bd 19, Hfg 2), 1906, (1 + 78, mit 1 Taf.). [*Hymenoptera.*]

Wahlgren, Einar. 1. Antarktische und subantarktische *Collembolen* gesammelt von der schwedischen Südpolarexpedition. *Wissensch. Ergeb. schwed. Südpolarexp.*, **5**, Lief. 9, (1-22, pls. i, ii).

Wahlgren, E. 2. *Collembola* från Torne Lappmark och angränsande trakter. [*Collembola* from Torne Lappmark and adjacent districts.] *Entomol. Tidskr.*, Stockholm, **27**, 1906, (219-230).

Wahlgren, E. 3. Svensk insektfauna. 1. Första ordningen. Borstsvansar och Hoppstjärtar. *Apterygogenea*. [The Swedish insect-fauna. 1. *Apterygogenea.*] *Entomol. Tidskr.*, Stockholm, **27**, 1906, (233-270).

Walker, E. M. 1. Records in *Orthoptera* from the Canadian North-

west. *Canad. Entomol.*, **38**, 1906, (55-59).

Walker, E. M. 2. A first list of Ontario *Odonata*. *Canad. Entomol.*, **38**, 1906, (105-110, 149-154).

Walker, James J. 1. Antipodean field notes. III. A sketch of the entomology of Sydney, N.S.W. (continued). *Ent. Mag.*, London, **42**, 1906, (22-27, 50-55).

Walker, J. J. 2. Further notes on the *Coleoptera* of the Oxford district. *Ent. Mag.*, London, **42**, 1906, (157-159).

Walker, J. J. 3. Preliminary list of *Coleoptera* observed in the neighbourhood of Oxford from 1819 to 1907. Oxford, Rep., Ashmol. Nat. Hist. Soc., **1906**, (51-99).

Waller, A. P. *Lepidoptera* in East Suffolk, 1905. *Entomologist*, London, **29**, 1906, (9-11).

Wallis, Eustace F. Some captures of *Lepidoptera* for 1906. Northampton, J. Nat. Hist. Soc., **13**, 1906, (293-296).

Walsingham, The Lord. 1. Notes on the genus *Tamarrha* Wkr. [*Lep.-Tineina*.] *Ann. Mag. Nat. Hist.*, London, Ser. 7, **18**, 1906, (175-178).

Walsingham, The Lord. 2. Description of a new Tineid moth infesting cotton-pods in Egypt. *Ann. Mag. Nat. Hist.*, London, Ser. 7, **18**, 1906, (178, 179). [*Lepidoptera*.]

Walsingham, The Lord. 3. *Blastotere glabrata* Zeller; a species taken for the first time in England. *Ent. Mag.*, London, **42**, 1906, (169). [*Lepidoptera*.]

Walsingham, The Lord and Durrant, John Hartley. Revision of the nomenclature of *Microlepidoptera*. *Ent. Mag.*, London, **42**, 1906, (196-197). [Continued from **38**.]

Wanach, Bernard. 1. Statistisches über *Melolontha hippocastani* Fabr. *Berliner ent. Zs.*, **50**, (1905), 1906, (229-234). [*Coleoptera*.]

Wanach, B. 2. Einige auffällige Beobachtungen aus dem Insektenleben. *Berliner ent. Zs.*, **50**, (1905), 1906, (235-236).

Wandolleck, Benno. 1. A new species of *Cyrtidae* (*Diptera*) from N. Queensland bred by F. P. Dodd. London, *Trans. Ent. Soc.*, **1906**, (131).

Wandolleck, B. 2. *Diptera*. [Jahresbericht 1901.] *Arch. Natg.*, Berlin, **68**, Bd 2, H. 2, 2. Hälfte, 1902, [1906], (973-1020) = *D. ent. Zs.*, Berlin, **1902**, H. 3, 2. Hälfte, [1906], (973-1020).

Wanke. Zur Lebensweise des Gelbrandes. *Allg. Fischereiztg.*, München, **31**, 1906, (310-311). [*Coleoptera*.]

Warburton, Cecil. Annual Report for 1906 of the Zoologist. London, J. R. Agric. Soc., **67**, 1906, (267-281).

Warnecke, Georg. Beiträge zur Kenntnis der *Lepidopterenfauna* Schleswig-Holsteins. *Insektenbörse*, Leipzig, **23**, 1906, (172, 174-176, 178-180, 183-184, 187-188).

Warren, William. 1. Descriptions of new genera and species of South American Geometrid moths. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, 1906, (399-557). [*Geometridae*.]

Warren, W. 2. New *Drepanulidae*, *Thyrididae*, *Uraniidae* and *Geometridae* from British New Guinea. *Nov. Zool.*, Tring, **13**, 1906, (61-160). [*Lepidoptera*.]

Washburn, F. L. Eleventh annual report of the State entomologist of Minnesota. Fifth annual rep. of F. L. W. St. Anthony Park, 1906, (1-87, pl.).

Wasmann, E[rich]. 1. Zur Geschichte der Sklaverei beim Volke der Ameisen. *Stimmen Maria-Laach*, Freiburg i. B., **70**, 1906, (405-425, 517-531). [*Hymenoptera*.]

Wasmann, E. 2. Zur Lebensweise von *Atemeles pratensisoides* Wasm. (149. Beitrag zur Kenntnis der Myrmekophilen.) *Zs. wiss. Insektenbiol.*, Husum, **2**, 1906, (1-12, 37-43). [*Coleoptera*.]

Wasmann, E. 3. Beispiele rezenter Artenbildung bei Ameisengästen und Termitengästen. *Biol. Centralbl.*, Leipzig, **26**, 1906, (565-580).

Wasmann, E. 4. Zur Kenntniss der Ameisen und Ameisengäste von Luxemburg. (153. Beitrag zur Kenntniss der Myrmekophilen.) Luxemburg, 1906, (1-20, 2 pls.). [From *Arch. Inst. Gr. duc. Luxemb. Sect. des Sciences*.]

Wasmann, E. 5. Die Gäste der Ameisen und der Termiten. *Verh. Ges. D. Natf.*, **77**, 2, 1906, (212-216).

Wasmann, E. 6. Comparative studies in the psychology of ants and of higher animals. Authorized English version of the 2d German ed. Enl. and rev. by the author. St. Louis, Mo. and Freiburg, Baden (B. Herder), 1905, (x + 200, pl.). 20 cm.

(**Wasmann, E. 7.** *Termitusa*, nouveau genre d'Aléochariens termitophiles. Rev. ent., Caen, **24**, 1905, (199-200). [4831].)

(**Wasmann, E. 8.** Zwei neue *Liometopum*-Gäste aus Colorado. (116. Beitrag zur Kenntnis der Myrmekophilen und Termitophilen.) Entomol. Ztg., Wien, **20**, 1901, (145-147). [4819-4831].)

(**Waterhouse, G[ustavus] A[thol] and Turner, R[owland] E.** Notes on Australian *Rhopalocera*: *Lycaenidae*, IV. Sydney, N.S.W., Proc. Linn. Soc., **29**, 1905, (798-804).)

Waterston, James. 1. *Polytes hirticrura*, Meade, ♀. Ent. Mag., London, **42**, 1906, (269, 270). [Diptera.]

Waterston, J. 2. On some Invertebrates from St. Kilda. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (150-153).

Waterston, J. 3. On some Scottish *Siphonaptera*. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (211-214).

Webb, J. L. Some insects injurious to forests. The western pine-destroying barkbeetle. (*Dendroctonus brevicornis* Lec.) Washington, D.C., Bull., U. S. Dept. Agric., Bur. Ent., No. **58**, 1906, (i-vi + 17-30, pl.). [Coleoptera.]

Weber, Samuel E. 1. Notes on mosquitoes. Ent. News, Philadelphia, Pa., **17**, 1906, (214-217). [Diptera.]

Weber, S. E. 2. Notes on mosquitoes. Ent. News, Philadelphia, Pa., **17**, 1906, (279-283). [Diptera.]

Weber, S. E. 3. The song of the mosquito. Ent. News, Philadelphia, Pa., **17**, 1906, (380-382). [Diptera.]

Webster, F[rançois] M[arion]. 1. Some insects affecting the production of red clover seed. Washington, D.C., Cir. U. S. Dept. Agric., Bur. Ent., No. **69**, 1906, (1-9).

Webster, F. M. 2. The Hessian fly. Washington, D.C., Cir. U. S. Dept. Agric., Bur. Ent., No. **70**, 1906, (1-16). [Diptera.]

Webster, F. M. 3. The slender seed-corn ground-beetle. Washington, D.C.,

Cir. U. S. Dept. Agric., Bur. Ent., No. **78**, 1906, (1-5). [Coleoptera.]

Wedekind, W. Generationswechsel, Metamorphose und direkte Entwicklung. Zool. Anz., Leipzig, **26**, 1906, (790-795).

Weeks, Andrew Gray. 1. New species of butterflies. Ent. News, Philadelphia, Pa., **17**, 1906, (195-204). [Lepidoptera.]

Weeks, A. G. 2. New *Lepidoptera* from Venezuela. Psyche, Boston, Mass., **13**, 1906, (67-73).

Weeks, A. G. 3. New *Lepidoptera*. No. 1. Canad. Entomol., **38**, 1906, (76-80). No. 2, T.c. (174-178).

Weele, H. W. van der. 1. Synonymical notes concerning the *Neuropterous* genus *Helicomitus*, Mac Lachl. Leiden, Notes Mus. Jentink, **26**, 1906, (200). [Neuroptera.]

Weele, H. W. van der. 2. Uebersicht der *Sialiden* des indo-malayischen Archipels. Leiden, Notes Mus. Jentink, **26**, 1906, (207-222, 1 Taf.). [Neuroptera.]

Weele, H. W. van der. 3. Ueber die von Prof. Dr. A. Gerstaecker beschriebenen *Ascalaphidae* (Neuroptera). Leiden, Notes Mus. Jentink, **26**, 1906, (226-228).

Weele, H. W. van der. 4. Erster Nachtrag zu meiner Uebersicht der *Sialiden* des indo-malayischen Archipels. Leiden, Notes Mus. Jentink, **28**, 1906, (141-145). [Neuroptera.]

Weele, H. W. van der. 5. Morphologie und Entwicklung der Gonapophysen der *Odonaten*. 's Gravenhage, Tijdschr. Ent., **49**, [1906], (99-198, 3 Taf.).

Weele, H. W. van der. 6. Über die von Prof. Dr. Y. Sjöstedt auf seiner Reise in Kamerun gesammelten *Planipennia*. Ark. Zool., Stockholm, **3**, 1906, No. 2, (1-14, 1 pl.). [Neuroptera.]

Weinberg. Lésions du tube digestif du Cheval dues aux larves d'*Estres*. Paris, C.-R. soc. biol., **61**, 1906, (172-173). [Diptera.]

Weinland, Ernst. Ueber den anaeroben (anoxymbiotischen) Abschnitt der intermediären chemischen Prozesse in den Puppen von *Calliphora*. Zs. Biol., München, **48**, 1906, (87-140). [Diptera.]

Weise, J. 1. Synonymische Bemerkungen. D. ent. Zs., Berlin, **1906**, (34). [Coleoptera.]

Weise, J. 2. Zwei neue *Coccinelliden*. D. ent. Zs., Berlin, 1906, (159-160). [*Coleoptera*.]

Weise, J. 3. *Pachybrachys bodemeyeri* [n. sp.]. D. ent. Zs., Berlin, 1906, (472). [*Coleoptera*.]

Weise, J. 4. *Coccinelliden* aus Madagaskar. D. ent. Zs., Berlin, 1906, (206-208). [*Coleoptera*.]

Weise, J. 5. Ostafrikanische *Chrysomeliden* und *Coccinelliden*. D. ent. Zs., Berlin, 1906, (35-64). [*Coleoptera*.]

Weise, J. 6. Ueber *Chrysomeliden*. D. ent. Zs., Berlin, 1906, (203-205). [*Coleoptera*.]

Weise, J. 7. Zwei neue *Hispiden* aus Ostindien. D. ent. Zs., Berlin, 1906, (404). [*Coleoptera*.]

Weise, J. 8. Die Entwicklung des *Cyrtinus montanus* Graells. D. ent. Zs., Berlin, 1906, (405-409). [*Coleoptera*.]

Weise, J. 9. Aufzählung von *Hispinen* aus Nicaragua. Genova, Ann. Museo Civ. st. nat., 42, Ser. 3, 2, 1905-6, (237-242). [*Coleoptera*.]

Weise, J. 10. *Coccinellidae* in Argentina, Chili et Brasilia e collectione Domine Caroli Bruchi. Revist. Mus., La Plata, 11, 1904, (193-198). [*Coleoptera*.]

Weise, J. vide Bodemeyer, E. v.

Weissenberg, Richard. Ueber die Onocyten von *Torymus nigricornis* Boh. mit besonderer Berücksichtigung der Metamorphose. Zool. Jahrb., Jena, Abt. f. Anat., 23, 1906, (231-268). [*Hymenoptera*.]

Welles, Miriam U. r. Folsom, Justus W.

Wellman, F. Creighton. 1. On a hemipterous insect which preys upon bloodsucking Arthropods, and which occasionally attacks mammals and man. J. Trop. Med., London, 9, 1906, (97-98).

Wellman, F. C. 2. Notes on the habits of Tsetse-flies. Ann. Mag. Nat. Hist., London, ser. 7, 18, 1906, (242-244). [*Diptera*.]

Wellman, F. C. 3. *Glossina palpalis wellmani*: a new Tse-tse fly which disseminates human trypanosomiasis. Ent. News, Philadelphia, Pa., 17, 1906, (294-302, pl.). [*Diptera*.]

Wellman, F. C. 4. Observations on the bionomics of *Auchmeromyia luteola* Fabricius. Ent. News, Philadelphia, Pa., 17, 1906, (64-67). [*Diptera*.]

Wenke, Karl. 1. Anatomie eines *Argynnis paphia*-Zwitter, nebst vergleichend-anatomischen Betrachtungen über den Hermaphroditismus bei *Lepidopteren*. Zs. wiss. Zool., Leipzig, 84, 1906, (95-138, 2 Taf.).

Wenke, K. 2. Anatomie eines *Argynnis paphia*-Zwitter, nebst vergleichend anatomischen Betrachtungen über den Hermaphroditismus bei *Lepidopteren*. Diss. Berlin (Druck v. E. Ebering), 1906, (37). 22 cm.

Werber, Isaak vide Przibram, Hans.

Werner, Franz. 1. Zur Kenntnis afrikanischer *Mantodeen*. Stuttgart, Jahreshefte Ver. Natk., 62, 1906, (361-377). [*Orthoptera*.]

[Werner, F. 2. Beiträge zur *Orthopterenfauna* des Pittenthaler Seebenstein bis Aspang. Wien, JahrBer. Entom. Ver., 16, (1905), 1906, (25-31).

Werner, F. 3. *Dermaptera* und *Orthoptera* [in Penther und Zederbauer, Reise zum Erdschias-Dagh]. Wien, Ann. Nat. Hist., Hofmus, 20, 1905, (168-170).

[Werner, F. 4. Ergebnisse einer zoologischen Forschungsreise nach Ägypten und dem ägyptischen Sudan. 1. Die *Orthopterenfauna* Ägyptens mit besonderer Berücksichtigung der *Eremiaphilen*. Wien, SitzBer. Ak., 114, Abt. 1, 1905, (357-436, 1 pl.).]

West, William. The *Lepidoptera* of the southeastern district of London. Ent. Rec., London, 18, 1906, (141-143, 170-173, 198-201, 229-236).

Weymer, Gust. 1. Zwei neue *Heli-conius*-Formen. D. ent. Zs. Iris, Berlin, 19, 1906, (68-71). [*Lepidoptera*.]

Weymer, G. 2. Zwei neue *Saturniden*. D. ent. Zs. Iris., Berlin, 19, 1906, (71-76). [*Lepidoptera*.]

Wheeler, William Morton. 1. The habits of the tent-building ant (*Crematogaster lincolata* Say). New York, N.Y., Bull. Amer. Mus. Nat. Hist., 22, 1906, (1-18, pl.). [*Hymenoptera*.]

Wheeler, W. M. 2. The ants of the Grand Cañon. New York, N.Y., Bull. Amer. Mus. Nat. Hist., 22, 1906, (329-345). [*Hymenoptera*.]

Wheeler, W. M. 3. The ants of the Bermudas. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, 1906, (347-352). [*Hymenoptera.*]

Wheeler, W. M. 4. An ethological study of certain maladjustments in the relations of ants to plants. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, 1906, (403-418, pl.). [*Hymenoptera.*]

Wheeler, W. M. 5. The queen ant as a psychological study. Pop. Sci. Mon., New York, N.Y., **68**, 1906, (291-299). [*Hymenoptera.*]

Wheeler, W. M. 6. New ants from New England. Psyche, Boston, Mass., **13**, 1906, (38-41, pl.). [*Hymenoptera.*]

Wheeler, W. M. 7. On certain tropical ants introduced into the United States. Ent. News, Philadelphia, Pa., **17**, 1906, (23-26). [*Hymenoptera.*]

Wheeler, W. M. 8. The kelep excused. Science, New York, N.Y., **23**, 1906, (348-350). [*Hymenoptera.*]

Wheeler, W. M. 9. On the founding of colonies by queen ants, with special reference to the parasitic and slave-making species. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, 1906, (33-105, pls. viii, xiv).

Wheeler, W. M. 10. The ants of Japan. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, 1906, (301-328, pl.).

Wheeler, W. M. 12. List of the *Formicidae*. (Fauna of New England. 7.) Boston, Mass., Occ. Paprs. Soc. Nat. Hist., **7**, 1906, (1-24).

Wheeler, W. M. 13. A new wingless fly (*Puliciphora borinquensis*) from Porto Rico. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, 1906, (267-271). [*Diptera.*]

Wheeler, W. M. 14. The expedition to Colorado for fossil Insects. Amer. Mus. J., New York, N.Y., **6**, 1906, (199-202).

Whitaker, Oscar. A preliminary catalogue of the *Hemiptera-Heteroptera* of Lancashire and Cheshire. Southport, Rep. Lanc. Ches. ent. Soc., **30**, 1906, (32-45).

White, Gershom Franklin. The Bacteria of the Apiary, with special reference to bee diseases. Washington, D.C., Tech. Ser., U. S. Dept. Agric. Bur. Ent., **14**, 1906, (1-50). [*Hymenoptera.*]

White, L. H. Entomological section. Report. Horsham, Christ's Hosp. nat. hist. soc. Rep., **4**, 1906, (16-21). [*Lepidoptera.*]

White, David *vide* Handlirsch, Anton.

Whitehead, J. M. *vide* Shaw, William.

Wichgraf, F. Zwei neue afrikanische Heteroceren aus dem Hinterlande der Delagoa-Bay. Insektenbörse, Leipzig, **23**, 1906, (82-83). [*Lepidoptera.*]

Wickham, H[enry] F[rederick]. 1. The races of *Cicindela tranquebarica* Hbst. Ent. News, Philadelphia, Pa., **17**, 1906, (43-48). [*Coleoptera.*]

Wickham, H. F. 2. A review of the species of *Tanarthropsis* Casey. Philadelphia, Pa., Trans. Amer. Ent. Soc., **32**, 1906, (165-172). [*Coleoptera.*]

Wickham, H. F. 3. A review of Dr. Walther Horn's "Systematischer Index der Cicindeliden". Canad. Entomol., **38**, 1906, (24-27). [*Coleoptera.*]

Wickwar, Oswin S. Flight of white and yellow butterflies. Spolia Zeylanica, Colombo, **3**, 1906, (216-218). [*Lepidoptera.*]

Willcocks, F. C. Insects injurious to the cotton plant in Egypt. Part I. Cairo, Yrbk. Khed. Agric. Soc., **1905**, (15-115, pls.).

Willem, Victor. Une observation sur le Macroglosse. Bruxelles, Ann. soc. ent. Belgique, **50**, 1906, (418-420). [*Lepidoptera.*]

Willey, A. Stridulation of *Gongylus gongylodes*. Spolia Zeylan., Colombo, **3**, 1906, (226-227). [*Orthoptera.*]

Williamson, E. B. Dragonflies (*Odonata*) collected by Dr. D. A. Atkinson in Newfoundland, with notes on some species of *Somatochlora*. Ent. News, Philadelphia, Pa., **17**, 1906, (133-139, pls. v, vi).

Williamson, E. B. and Calvert, Phillip P. Copulation of *Odonata*. Ent. News, Philadelphia, Pa., **17**, 1906, (143-148, pl. vii).

Williston, S[amuel] W[endell]. 1. Some common errors in the nomenclature of the *Dipterous* wing. Psyche, Cambridge, Mass., **13**, 1906, (154-157).

Williston, S. W. 2. The classification of the *Culicidae*. Canad. Entomol., **38**, 1906, (384-388). [*Diptera.*]

Willson, Alfred J. A melanic form of *Acronyeta leporina*. Entomologist, London, **39**, 1906, (97). [*Lepidoptera*.]

Wilson, Edmund B[eecher]. 1. The chromosomes in relation to the determination of sex in insects. [Abstract.] New York, N.Y., Proc. Soc. Exp. Biol. Med., **3**, 1906, (19-23).

Wilson, E. B. 2. Studies on chromosomes. 3. The sexual differences of the chromosome-groups in *Hemiptera*, with some considerations on the determination and inheritance of sex. J. Exp. Zool., Baltimore, Md., **3**, 1906, (1-40).

(**Wilson**, E. B. 3. Studies on chromosomes. I. The behaviour of the idiochromosomes in *Hemiptera*. J. Exp. Zool., Baltimore, Md., **2**, 1905, (371-405). [4015].)

(**Wilson**, E. B. 4. Studies on chromosomes. II. The paired microchromosomes, idiochromosomes and heterotropic chromosomes in *Hemiptera*. J. Exp. Zool., Baltimore, Md., **2**, 1905, (507-545, with 4 fig.). [4015].)

Wingate, W. J. 1. A new species of *Phora*: and four others new to the British list. Ent. Mag., London, **42**, 1906, (110-111). [*Diptera*.]

Wingate, W. J. 2. A preliminary list of Durham *Diptera*, with analytical tables. Newcastle, Trans. Nat. Hist. Soc., N. ser., **2**, 1906, (vi + 416 + 7 leaves additions, pls. i-vii).

Wiskott, Max. *Galgula partita* Gn. D. ent. Zs. Iris, Berlin, **18**, (1905), 1906, (328-331, 1 Taf.). [*Lepidoptera*.]

Witte, Hernfred. *Stratiotes aloides* L. funken i Sveriges post-glaciala allagringar. [Stratiotes aloides L. found in Swedish post-glacial strata.] Stockholm, Geol. Förr. Förh., **27**, 1905, (432-451).

Witzgall. Das Buch von der Biene. Unter Mitwirkung von Elsässer . . . [u. A.] hrsg. v. J. 2. verm. u. verb. Aufl. Stuttgart (E. Ulmer), 1906, (x + 580). 22 cm. Geb. 6,50 M.

Woglum, R. S. Two new scale insects. Canad. Entomol., **38**, 1906, (73-75). [*Coccidae*.]

[**Wollmann**, L.] Вольманъ, Л. М. Списокъ жалящихъ перепончатокрылыхъ, собранныхъ въ окрестностяхъ Бологова Новгородск. губ.

[Verzeichnis der in der Umgebung von Bologoje gesammelten *Hymenopteren* (*Aculeata*).] St. Peterburg, Ber. Süswasserst. Naturf. Ges., **2**, 1906, (75-77).

Wolter, Karl. Kreuzungsversuche zwischen Abendpfauenauge und Pappelschwärmer. Posen, Zs. D. Ges. Wiss., natw. Abt., **13**, 1906, (46-51). [*Lepidoptera*.]

Wood, J. H. On the British species of *Phora*. Part I. Ent. Mag., London, **42**, 1906, (186-196, 262-266). [*Diptera*.]

Woodworth, C[harles] W[illiam]. The wing veins of insects. [Cont. Mus. Comp. Zool., Harvard Coll., No. **181**, Berkeley, Univ. Cal. Pub., Tech. Bull. Ent., **1**, 1906, (1-152).

Wright, William Greenwood. The butterflies of the west coast of the United States. Illustrated with 940 figures in colour-photography of butterflies from the west coast, nearly all of which were captured by the author, with accurate data for each specimen. With coloured figures and descriptions of many new species and new varieties now first published. San Francisco (Whitaker & Ray Co.), 1905, (257 + vii, with front. (port.), col. pl.). 27 cm. [*Lepidoptera*.]

Wünscher, Max. *Perisomena eaeicigena* Kupido. Ent. Jahrb., Leipzig, **15**, 1906, (112-113).

Wüst, Val. 1. Gallensammlungen, ihre Erzeuger und Präparation. Insektenbörse, Leipzig, **23**, 1906, (95-96).

Wüst. 2. Ueber das Auftreten der Weidenrosengallmücke, *Cecidomyia rosaria* Lw., in der Südpfalz. Prakt. Bl. Pflanzenschutz, Stuttgart, **4**, 1906, (49-51). [*Diptera*.]

Xambeau, P. 1. Organes visuels des Coléoptères cavernicoles. Paris, Bul. soc. ent., **1906**, (205-206).

Xambeau. 2. Mœurs et métamorphoses des espèces du genre *Magdalinus* Germar. Naturaliste, Paris, **28**, 1906, (42-45). [*Coleoptera*.]

Xambeau. 3. Mœurs et métamorphoses des Coléoptères du groupe des Mycétophagides [error for *Cryptophagides*]. Naturaliste, Paris, **28**, 1906, (101-103, 120, 121).

Xambeau. 4. Mœurs et métamorphoses du genre *Dermestes* Linné.

Naturaliste, Paris, **28**, 1906, (199-202, 214-216). [*Coleoptera.*]

Xamheu. 5. Mœurs et métamorphoses des espèces du genre *Silpha* Linné. Naturaliste, Paris, **28**, 1906, (264-266, 277-279, 283-286). [*Coleoptera.*]

Xamheu. 6. Longévité des Insectes. Naturaliste, Paris, **27**, 1905, (279-280).

Yamazaki, Ichiei. Shokunikusei Rurihadamomoga ni tsuite. [On *Oedematopoda ignipicta* Butl.] Koneh. Sek., Gifu, **10**, 1906, (56-59). [*Lepidoptera.*]

Young, L. C. H. 1. First hints on collecting butterflies (being a supplementary paper to the articles on the common butterflies of the plains of India). Bombay, J. Nat. Hist. Soc., **17**, 1906, (114-121). [*Lepidoptera.*]

Young, L. C. H. 2. What is a species? Bombay, J. Nat. Hist. Soc., **17**, 1906, (128-132).

Young, L. C. H. 3. The common butterflies of the plains of India. Part II. Bombay, J. Nat. Hist. Soc., **17**, 1906, (418-423, 1 pl.). [*Lepidoptera.*]

Yung, E. Henri de Saussure. Notice nérologique. Arch. Sci. Phys., Genève, **21**, 1906, (519-534, portrait).

[**Zaicev, Ph.**] **1.** Зайцевъ, Ф. А. Къ фаунѣ *Macrolepidoptera* Новгородской губерніи. [Beiträge zur Kenntnis der Lepidopterenfauna des Gouvernement Novgorod.] St. Peterburg, Ber. Süßwasserst. Naturf. Ges., **2**, 1906, (42-59); deutsches Rés., (60).

[**Zaicev, Ph.**] **2.** Зайцевъ, Ф. Матерьялы для фауны жесткокрылых (*Coleoptera*) Новгородской губ. [Catalogus praecursorius coleopterorum faunae provinciae Novgorodensis.] St. Peterburg, Ber. Süßwasserst. Naturf. Ges., **2**, 1906, (78-140); lat. Rés., (41).

Zaicev, Ph. 3. Drei neue *Dytisciden*-Arten (*Coleoptera*). Rev. russ. ent., St. Peterburg, **6**, 1906, (26-28).

Zaicev, Ph. vide etiam *Semenov, A.*

Zang, Richard. 1. Zur Systematik und Nomenklatur der *Lucaniden*. D. ent. Zs., Berlin, **1906**, (93-95). [*Coleoptera.*]

Zang, R. 2. Uebersicht der *Basilium*-Arten. D. ent. Zs., Berlin, **1906**, (177-183). [*Coleoptera.*]

Zang, R. 3. Diagnosen neuer *Lucaniden* aus Kaschmir, gesammelt von K. Rost im Sommer 1905. D. ent. Zs., Berlin, **1906**, (184). [*Coleoptera.*]

Zang, R. 4. *Passalini*. Nova Guinea, Résultats de l'Expédition scientifique Néerlandaise à la Nouvelle-Guinée en 1903, sous les auspices de Arthur Wichmann, Chef de l'Expédition, **5**, Livr. 1, 1906, (23-26). [*Coleoptera.*]

Zang, Richard, obituary, vide *Horn, Walther.*

[**Zavarzin, A.**] Заварзинъ, А. Къ фаунѣ *Copeognatha* Новгородской губ. (окрестн. Бологова). [Zur *Copeognathen*-Fauna der Provinz Novgorod.] St. Peterburg, Ber. Süßwasserst. Naturf. Ges., **2**, 1906, (271-276).

Zavattari, Edoardo. 1. Descrizione di due nuove specie di *Vespidi* dell'America meridionale. Torino, Boll. Musei zool. anat., **21**, N. **523**, 1906, (1-4). [*Hymenoptera.*]

Zavattari, E. 2. Viaggio del Dr. E. Festa nel Darien, nell'Ecuador e regioni vicine, *Imenotteri. 1. Diptoptera.* Torino, Boll. Musei zool. anat., **21**, No. **529**, 1906, (1-22).

Zehntner, L. vide *Koorders, S. H.*

Zerny, Joh. Herbststreife *Carabini*. Insektenbörse, Leipzig, **23**, 1906, (164). [*Coleoptera.*]

[**Zickert, Fritz.** Contributo ad un Catalogo delle *Zygene* dell'Italia meridionale con descrizioni di varietà ed aberrazioni poco note. Naturalista sicil., Palermo, **17**, 1904, (67-74). [4431].

Zoufal, V[ladimir]. Zwei neue Färbungsvarietäten von *Rosalia alpina* L. Entomol. Ztg., Wien, **25**, 1906, (264). [*Coleoptera.*]

[**Žuravskij, A. V.**] Журавскій, А. В. Сортирующий приборъ для ловли жуковъ. [Sortierapparat für den Käferfang.] St. Peterburg, Hor. Soc. Ent. Ross., **37**, 1906, (ci-cvii). [*Coleoptera.*]

Zweiger, Herbert. 1. Die Spermatogenese von *Forficula auricularia*. Zool. Anz., Leipzig, **30**, 1906, (220-226). [*Orthoptera.*]

Zweiger, H. 2. Die Spermatogenese von *Forficula auricularia* L. Jenaische Zs. Natw., **42**, 1906, (143-172, 4 Taf.). [*Orthoptera.*]

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TREATISES, Etc.

General Works.

(**Henneguy**, F. *Les Insectes*, (xx + 804).)

Entomology, with special reference to its biological and economic aspects; **Folsom**.

Entomologisches Jahrbuch, Jg. 15. Kalender für alle Insekten-Sammler auf das Jahr 1906. Hrsg. v. Oskar Kraucher. Leipzig (Frankenstein & Wagner), 1906, (208, 1 Taf.).

Cinquantenaire de la fondation de la société entomologique de Belgique; **Fologne** and others.

Société entomologique de Belgique. Mémoire jubilaire. Bruxelles = Mém. soc. entom. Belgique, **12**, 1906, (1-255).

(**Vachal**, **3**; *Insectes actuels témoins des révolutions du globe*.)

Historical.

Rambur and the nature of species; **Jordan**.

Volksansichten über Insekten und deren merkwürdiges Vorkommen; **Rudow**, **1**.

Houlbert, C., receives Prix Thore; Paris, C.-R. Acad. sci., **143**, (1033).

Raffray, Achille, reçoit le prix Cuvier; Paris, C.-R. Acad. sci., **143**, (1069).

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Douglas, J. W.; **Dale**, (16), *Ent. Mag.*, London, **42**.

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Fairmaire, Léon; Paris, *Bul. Soc. ent.*, 1906, (73).

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Fox, Edward Carteret Dobrée **Bankes**, (141), *Ent. Mag.*, London, **42**.

Greene, Joseph; *Ent. Mag.*, London, **42**, (66).

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Hutchinson, Emma Sarah; **Bankes**, (43), *Ent. Mag.*, London, **42**; *vide etiam* (274), T.c.

Hutton, F. W.; Wellington, *Trans. N. Zeal. Inst.*, **38**, (v-vii), portrait; and *Ent. Mag.*, London, **42**, (67).

Kempny, Dr. Peter; **Rebel**, Wien, *Verh. zool.-bot. Ges.*, 1906, (613); **K. J. M.**, (184), *Ent. Mag.*, London, **42**; **Navás**, **3**.

Kraatz, Prof. Dr. Gustav. Ein Beitrag zur Geschichte der systematischen Entomologie. Dem Gründer der D. Ent. Ges. . . . zum 50 jähr. Jubiläum . . . gewidmet von der Deutschen Entomologischen Gesellschaft; **Horn**, **8**, (with list of his works by **Zang**, and catalogue of the Insects described by him).

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Paulmier, Frederick C.; E. B. W., *Science*, **23**, (556).

Sabine, Ebenezer; *Entomologist*, 1906, (120).

Saussure, Henri de; **Yung**.

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Wocke, M. F.; Bruxelles, *Ann. Soc. ent. Belgique*, **50**, (373).

Zang, Richard†; **Horn**, **2**.

Bibliographical.

Record of Insecta for 1905; **Sharp**, David, **1**.

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Record of Insecta for 1904; *International Catalogue*.

Bericht über die wissenschaftl. Leistungen im Gebiete der Entomologie (Allgemeines) für 1901; **Seidlitz**, 1.

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Revue criticobibliographique. (Russ.) (67–140); **Semenov**, A., **Kusnezov**, N., **Filipstschenko**, J., **Zaitzev**, Ph., **Baekman**, J., **Tarnani**, I., **Ruzsky**, M., and **Borovsky**, B.

Canadian entomology, 1904. bibl. list; **Bethune**.

Bureau of entomology, list of publications; **Colcord**.

Index to periodical literature. Psyche, 13, 1906, (21–28, 77–78).

Entomologische Litteraturblätter; Repertorium der neuesten Arbeiten auf dem Gesamtgebiete der Entomologie. Berlin (R. Friedländer & S.). Jg. 5–6. 1905–1906. Je 12 Nrn. 21 cm. Je 1 M.

Literatur-Bericht, (5–44); Appendix to Zs. wiss. Insektenbiol., 2.

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Prices realised by sale of Barrett coll. of *Lep.*; Entomologist, 1906, (116–118).

Prices, sale of Mason coll. *Microlepidoptera*; (28) Ent. Rec., 1906.

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(Howard, L. O. Insectes nuisibles importés d'Europe aux Etats-Unis., (231-233). Paris, Bul. soc. ent., 1905.)

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Notes, Australia ; **Perkins**, 4.

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Proceedings of the eighteenth annual meeting of the Association of Economic Entomologists ; Washington, D.C., Bull. U. S. Dep. Agric. ent., 60.

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(b) *Hymenoptera*.

Ants, plague of, S. Africa; **Bingham**, (xxiii), London, Proc. ent. Soc., 1906.

Lophyrus, Schädlichkeit; **Schöyen**.

Lophyrus pini ravages, Haute Marne; **Noel**, (238), Naturaliste, 1906.

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(d) *Diptera*.

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Diversities among New York mosquitoes; **Felt**, 1.

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The fight against yellow fever; **Dastre**.

Symposium on yellow fever and other insect borne diseases, [various authors]; *Science*, **23**, (367-384, 401-415).

Tabanidae, enemies of, and remedies for; **Hine**, 4.

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Expériences d'infection de trypanosomiase par des *Glossina palpalis* infectées naturellement: **Cazalbou**.

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Acanthia lectularia; **Dury**, *Ent. News*, **17**, (350).

Reduviid or Anthocerid biting man; **King**.

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Unsere Bienen. Ein ausführliches Handbuch über alles, was ein Imker heute wissen muss . . . Unter Mitwirkung v. Adamec [u. A.] . . . hrsg.

v. August **Ludwig**. Berlin (F. Pfennigstorff), [1906]. (viii + 131, mit 54 Taf.). 24 cm. 12.50 M.

Apiculture; **Clément**.

Verbesserung der Bienenrasse (Russ.); **Butkevič**.

Ueber ein Mittel von zwei Bienen-völkern je einen künstlichen Schwarm zu erhalten (Russ.); **Bruksch**.

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ETHOLOGY.

General.

(**Kellogg**, V. L. and **Bell**, R. G. Notes on insect bionomics. J. Exp. Zool., Baltimore, Md., 1, 1904, (357-367).)

Ecological adaptation, *Hymenoptera*; **Robertson**.

Ant-life (*vide etiam* Instinct).

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Founding nest, *Lasius niger*; **Southcombe**. London, Proc. ent. Soc., 1906, (lxxv-lxxvii).

Habits of *Formicidae*, *F. sanguinea*, etc.; **Ernst**. Biol. Centralbl., Leipzig, 26, (210-220).

Biologie der spinnenden Ameisen; **Kohl**.

Habits of the kelep ant (*Leptogenys*); **Cook**, O. F.; **Wheeler**, 8.

Habits of the tent-building ant (*Cremastogaster lineolata* Say); **Wheeler**, 1.

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Association of *Pachylomma cremieri* with *Lasius fuliginosus*; **Cobelli**, 1.

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(**Lesne**, 18; Les fourmis et les Fulgorides; domestication des Tettigometra).

(**Fauvel**, 12; Staphylinides myrmecophiles . . .)

(**Wasmann**, E., 8; Zwei neue *Liometopum*-Gäste aus Colorado. (116. Beitrag zur Kenntniss der Myrmekophilie und Termitophilie.)

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(**Pec'ham**, George Williams. Wasps, social and solitary. With an introduction by John Burroughs.)

(**Buysson**, R. du, 10; *Vespides* du genre *Nectarina*.)

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Seawater, *Anopheles* mosquitoes in; **Vogel**, Batavia, *Geneesk. Tijdschr. Ned. Ind.*, 46, 1906, (66-85).

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Rhopalocera and wind; **Thomas**, (xviii, xix), London, *Proc. ent. Soc.*, 1906.

Migration, *Bombus*; **Luckham**, *Entomologist*, 1906, (C5).

Wandernde Schmetterlinge; **Graebener**.

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Stridulation *Cychnus*; **Bagnall** (73) Ent. Rec. 1906.

Stridulationsorgan *Geotrupes*; **Scholz**, Richard.

Stridulation *Polyphylla fullo*; **Wanach**, 2.

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Stridulation, *Gongylus*; **Willely**.

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(**Graenicher**, 3; On the habits of two Ichneumonid parasites [*Grotea anguina* and *Habrocryptus graenicheri*] of the bee *Cratina dupla* Say.).

Fungus in body of *Ceroplastes*; **Berlese, 2.**

(**Künckel d'Herculais, J., 1**; Les Lépidoptères Limacodides et leurs Diptères parasites, Bombylides du genre *Systropus*. Signification morphologique des pointes frontales de la chrysalide de l'hôte et de la nymphe du parasite. Paris, C.-R., ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (872–873).)

(**Vevey de Artault, S.** Pseudoparasitisme du *Thrips*).

Nests; dwellings.

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Scent of *Rhopaloeera*; **Dixey, (ii–vii)**, London, Proc. ent. Soc., 1906.

Sat[urnia] pavonia, Konservierung des Geschlechtsaromas beim ♀; **Fritzsche.**

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Androconial scales, shedding of, *Thecla*; **Pierce**, Entomologist, 1906, (89).

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Copulation and oviposition of *Euchloe eardamines* and of *G. rhamni*; **Floersheim**, (208–210), Ent. Rec., 1906.

Accouplement et œufs d'*Anisolabis mauritanica*; **Gadeau, 1.**

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(**Ferton, Ch.** Instinct des hyménoptères mellifères et ravisseurs.)

Aus dem Leben der Bienen. (Russ.); **Risch.**

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Die Zelle der Bienenwabe vom mathematischen Gesichtspunkte aus betrachtet (Russ.); **Běljavskij.**

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- Resemblance, beetle and snout of mammal; **Poulton**, (xxi) London, Proc. ent. Soc., 1906.
- Mimetismo nei Lepidotteri; **Rocci**.
- Protective and threatening coloration, *Smerinthus*, etc.; **Standfuss**, 1.
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- Convergenz-Erscheinungen zwischen den Raupen von *Plusia C. aureum* und *Notodonta ziczac*; **Bergner**.
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- Mimicry in Pierine *Rhopalocera*; **Dixey**, (xxx) London, Proc. ent. Soc., 1906.
- Resemblance between *Huphina corva* and *Lixias baliensis*; **Dixey**.
- Protective taste and destruction of *Rhopalocera*; **Floersheim**, (104). Ent. Rec., 1906.
- Enemies of *Rhopalocera*; **Floersheim**.
- Schutzfärbung?; **Hader**, 2.
- Polia chi*, contradicting protection; **Harrison**, (64). Ent. Rec., 1906.
- Kämpfende Käfer, *Lucanus cervus*; **Ammann**.
- Use of distorted legs, *Hoplia*; **Longstaff**, 1.
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- Polemik über die Generationsfrage der Borkenkäfer; **Knoche**. Natw. Zs. Landw., Stuttgart, 4, 1906, (265-273).
- Biologie der Blattwespen (*Chalastogastra*); **Jörgensen**, 1.
- Marine insects; **Imms**, 2.
- Mœurs et métamorphoses du genre *Magdalinus*; **Xamheu**, 2.
- Mœurs et métamorphoses, Mycétophagides; **Xamheu**, 3.
- Mœurs et métamorphoses, *Silpha*; **Xamheu**, 5.
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- La biologie des teignes; (Polish) **Sitowski**, 2.
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Histoire naturelle du *Solenobia larella* ; **Chrétien, 2.**

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Dipterenlarve aus Paraguay, *Acanthomera teretruneum* sp. n. ; **Fiebrig.**

Webs and habits of *Macrocera fasciata* larva ; **Enslin.**

Gryllus campestris, habits ; **Dudinszky** (Ungarisch).

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(**Gadeau de Kerville, 2** ; *Triphosa* et *Scoliopteryx*.)

(**Giard, 12** ; *Agromyza simplex*.)

(**Fleischer**, Ant[on]. **7.** Biologisches über *Liodes*-Arten. *Entomol. Ztg.*, Wien, **23**, 1904, (251-254).

(**Daecke, 2** ; Notes on *Prionapteryx nebulifera* Steph.)

(**Chrétien, 7** ; *Promasia ataxella*.)

(**Marchal, 9** ; Biologie du *Chrysomphalus dictyospermi*.)

(**Planet, 5** ; *Araignées et Forficules*.)

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T. polyphemus cocoons ; **Soule**, *Ent. News*, **17**, (33).

Stemmed cocoons of *Telea polyphemus* ; **Kunze, 2.**

Telea polyphemus, cocoons ; **Kuschel**, *Ent. News*, Philadelphia, **17**, (112).

Joint cocoons ; **Claxton**, (189), *Entomologist*, 1906 ; **Mannering**, T.c. (230).

Schlammkäfer (*Heterocerus*) Entwicklung in einem Puppengehäuse ; **Klunzinger.**

Insects and Plants, and Flowers.

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Insects and flowers in Connecticut ; **Britton** and **Viereck**, (207-224), *Rep. Connecticut exp. Stat.*, 1905.

Pollination of Flowers in India ; Habits of *Bombus haemorrhoidalis* in N.W. Himalaya ; **Burkill.**

Fertilisers of flowers, Lapland ; **Silén, 1.**

Blüten besuchende Zweiflügler ; **Riedel.**

Künckel d'Herculais, J., 2. Rapport des Insectes avec les fleurs des Asclépiadées et en particulier avec celle de l'*Araujia sericofera* Brotero. Paris, Bull. Ass. franç. avanc. sci., **1905**, (342–343).

Genista scorpius DC.; Coléoptères du; **Chobaut, 8.**

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(**Bonnier, 3**; L'accoutumance des abeilles à la couleur des fleurs.)

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Galls on *Populus nigra* produced by *Aphidae*; **Guercio.**

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Variation in larva and moults, *Aeronycta alni*; **Chapman, (21), Ent. Rec., 1906.**

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6 Flügel, *Gelechia*; abnorm. Geäder, *Bombus*; **Tarnani.**

Supernumerary tarsus, *Catocala*; **Bacot, (cii), London, Proc. ent. soc., 1906.**

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Antenne tératologique, *Scybalicus*; **de la Porte, Paris, Bull. Soc. ent., France, 1906, (186).**

Hybrids.

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Pairing varr., *Hemerophila abruptaria*; **Kaye, (80, 81), London, Proc. S. London Nat. Hist. Soc., 1906-7.**

Breeding from var. *aeacus* of *Zygaena ephialtes*; **Pieczczek, (12-14), Wien, Verh. Zool. bot. Ges., 1906.**

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Hawaiian islands. *Insecta*: **Perkins**, 6, Tantalus, general account. **Perkins**, Laysan and Midway islds., short list; Honolulu, Proc. Hawaii ent. Soc., 1, (33). **Swezey**, economic insects.—*Hymenoptera*: **Perkins**, 2; gen. n. *Aphelininae*. **Perkins**, 8, *Odynerus* 7 spp. n. — *Orthoptera*, *Rhyparobia maderae* and *Atractomorpha crenaticeps*, novelties, **Swezey**, (37).

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(**Régimbart, 4**; *Hydroporus* nouveau.)

Hymenoptera.

Kieffer, 3; Europe and the Mediterranean, many spp. n.; *Braconidae*, *Evaniidae*, *Platygasterides*, *Proctotrypidae*.

Lepidoptera.

Lampert, 2; Coloured plates of European Lep.

Diptera.

Kieffer, 6; Bitche, Styria, Digne, *Cecidomyiidae*, *Sciaridae*, *Chironomidae*, *Bibionidae* spp. n.

Stein, 2; *Pegomyia* 16 spp. n.

Aphaniptera.

Rothschild, N. C., 7; England and Italy, *Ichnopsyllus* 2 spp. n.

Perlidæ.

Klapálek, 3; *Dictyopterygidae*, monograph.

(c) North Europe, Siberia.

Insecta.

Strand, 3; Beiträge zur Hymenopteren- und Dipteren-Fauna Norwegens.

Muchardt; Sweden, nya lokaler för skalbaggar och steklar; Uppsala Ent. Tidskr., **27**, (128–131).

Finland, summary of faunistic observations for 1904, *vide* Helsingfors, Medd. Soc. Fauna Fl. Fenn., **31**, 1906, (211–215). Idem, for 1905, *op. cit.* **32**, (190–194).

Coleoptera.

Helliesen; In Jaederen und in Ryfylke gefundenen *Cerambycidae*, *Chrysomelidae* und *Coccinellidae*.

Strand; Norske fund av *Rhynchophoren*: Kristiania For. Vid. Selsk. 1903, No. 2, (1–14).

Ericson; Sweden, *Smicrus filicornis* novelty.

Lampa; Sweden *Oxytelus rugifrons* novelty; Uppsala Ent. Tidskr., **27**, (132).

Varenius; Helsingborg, *Aphodius pictus*, *Ceuthorrhynchus sahlbergi*, novelties; Uppsala Ent. Tidskr., **27**, (230).

† **Mjöberg, 3**; Sweden, interglacial, *Olophrum* sp. n.; Sweden interglacial *Gyrinus* sp. n.; also **Munthe**.

† **Witte**; Sweden, postglacial fauna, a few *Coleoptera*.

Poppius, 3; Finland, catalogue of imported *Col.*

Poppius, 1; Finland, *Crepidodera*.

Nordström; Finland, *Aegialia arena-ria* novelty; Helsingfors, Medd. Soc. Fauna Fl. Fenn., **31**, 1906, (5).

Poppius; Finland, *Tribolium confusum* novelty; Helsingfors, Medd. Soc. Fauna Fl. Fenn., **32**, (39).

Poppius; Finland, *Myllaena graecili-cornis* novelty; Helsingfors, Medd. Soc. Fauna Fl. Fenn., **31**, (73).

Sahlberg, 3; Finland, *Ceutorrhynchus scapularis* novelty.

Sahlberg, 4; Finland, *Agabus* sp. n.

Sahlberg; Finland, *Otiorrhynchus tristis*, *Ceutorrhynchus neutralis*; Helsingfors, Medd. Soc. Fauna Fl. Fenn., **31**, (55).

Phänologie, Excursionen in der Umgebung von St. Petersburg im Frühjahr 1904; **Mazarakij, 2**. (Russ.)

Jacobson, 1; Transbaikal *Donacia* sp. n.

Lapouge, 3; Lac Baïkal, *Carabus* list.

Poppius, 7; Siberia, *Cryobius* spp. n.

Poppius, 8; East and N. Siberia, *Pterostichus (Derulus)* 2 spp. n.

Poppius, 9; Lena-Thal, *Halipilidae*, *Dytiscidae* 7 spp. n.

Poppius, 11; Lena-Thal, *Carabidae* 15 spp. n.

Poppius, 12; N.E. Russia, 3 spp. n., *Carabus*, *Atheta*, *Bledius*.

Poppius, 13; Siberia, *Pterostichus* 5 spp. n.

Hymenoptera.

Lie-Pettersen, 2; Norway Himmeln.

Strand, 3; *Ichneumon*es collected in Hallingdal and Hatfjelddal.

Strand; Hymenopterologisk bidrag til Norges fauna; *Tenthredinidae* and *Aculeata*; Kristiania For. Vid. Selsk., 1903, No. 8, (1–8).

Nordenström; Sweden, *Ichneumonidae* list: Uppsala Ent. Tidskr., **27**, (133–136).

Forsius, 2; Finland, *Tremex*, *Emphylus*, *Taxonus* novelties.

Konow, 2; Solovetzkizolos and E-Siberia, *Trichiosoma* 2 spp. n.

Lepidoptera.

Rowland-Brown; Scandinavia and Lapland excursion, *Rhopalocera*.

Rowland-Brown; Lapland, *Herminia modestalis* and *Pionea deerepitatis*, (287). Entomologist, 1906.

Schneider, J.; Saltdalens (Norwegen), Lepidopterenfauna.

Thorsen; *Bombyx pini*, Norwegen.

Fabritius; Finland, *Geometridae*, 2 novelties.

Forsius, 1; Finland, *Ephestia interpunctella* novelty.

Poppius, 2; Finland, *Agrotis eversmanni* vice *collina*.

Wegelius; Finland, *Lasiocampa trifolii* novelty, (63) Helsingfors, Medd. Soc. Fauna Fl. Fenn., **31**.

Trichoptera.

Silfvenius, 4; Lake Ladoga, 98 spp., 1 sp. n.

Siltala, 4; Finland brackish water, 61 spp.

Silfvenius, 6; Finland short list.

Silfvenius; Finland, *Hydropsyche silfrenii* novelty; Helsingfors, Medd. Soc. Fauna Fl. Fenn., **32**, (67).

Ulmer, 3; Siberia, *Maniconeura* and *Leptocerus* sp. n.

Neuroptera.

Tullgren, 2; Sweden, *Coniopterygidae* sp. n.

Diptera.

Strand; Norske lokaliteter for *Diptera*; Kristiania, For. Vid. Selsk., 1903, No. 3, (1-11).

Frey, 1; Finland, *Sargus rufipes* and *nigripes*, *Pelecocera tricineta*, novelties.

Frey, 2; Finland, *Sciomyza simplex*, *Cheligaster ciliata*, novelties.

Frey, 3; Finland, *Brachypalpus bimaculatus*, *Alophora aurulans*, *Empis cinerea*, *Haematobia melanogaster*.

Levander; Helsingfors, *Anopheles claviger*; Helsingfors, Medd. Soc. Fauna Fl. Fenn., **32**, (75).

Lundström; Finland, *Desmometopa M-atrum*, novelty.

Poppius; Finland, *Cheilosia chloris*, *Hilara pinetorum*; Helsingfors, Medd. Soc. Fauna Fl. Fenn., **32**, (107).

Sahlberg, 1; Finland, *Hydrotaea albipuncta*, *Hydrophana convexa*, novelties.

Sahlberg, 2; Finland, *Chrysops*.

Mazarakij, 2; St. Petersburg, Excursionen in der Umgebung.

Hemiptera.

Muchardt; Sweden, novelties and localities.

Reuter; Finland, *Stenodema trispinosum*, novelty; Helsingfors, Medd. Soc. Fauna Fl. Fenn., **31**, (34).

Horváth, 4; Irkutsk, *Plinthisus* sp. n.

Tullgren, 1; Sweden, *Coccidae* of; also op. cit. (158).

Orthoptera.

Adelung, 2; *Orthoptera*, Turgaica, (Siberia occidentali meridionali), *Acriidiidae* 3 spp. n.

Adelung, 3; Tobolisk, *Prodromus orthopterorum*, *Celes* sp. n.

Thysanura and Collembola.

Lie-Pettersen, 4; Nördliches Norwegen, *Apterygotenfauna*.

Wahlgren, 3; *Thysanura* and *Collembola* of Sweden.

Wahlgren, 2; Torne Lappmark, *Collembola* 4 spp. n.

(d) **British Islands.**

THE FAUNA AS A WHOLE.

Insecta.

Fossil insects; **Handlirsch, 3**.

Coleoptera.

Hydrochus nitidicollis, novelty; **Donisthorpe, 2**.

Dinarda pygmaea, novelty; **Donisthorpe, 3**.

Lathrobium laecipenne, novelty; W. E. **Sharp**.

Euplectus tomlini sp. n.; **Joy, 2**.

Cryptomorpha desjardinsi, novelty; **Bagnall, 2.**

Corticaria crenicollis, novelty; **Joy, 4.**

Cardiophorus erichsoni, novelty, Lundy Island; **Joy and Tomlin.**

Ptinus pusillus, novelty; **Donisthorpe, 1.**

Carida affinis, novelty; **Sharp, David, 2.**

Retrospect of discoveries, 1905; **Beare**, Ent. Rec., London, 1906, (1-7).

The myrmecophilous *Col.* of Great Britain; **Donisthorpe, 5.**

Imported *Coleoptera*; **Bagnall, 1.**

Nests of mammals and birds, *Col.* in, *Homalota paradoxa*, novelty; **Joy, 3.**

Lomechusa strumosa in Britain; **Donisthorpe**, (159), Ent. Rec., 1906.

Megacronus formosus at Swansea; **Donisthorpe**, (40), Ent. Mag., London, 42.

Carpophilus sexpustulatus restored; **Bayford**, (179), Ent. Mag., London, 42.

Thyamis curta withdrawn; **Newbery**, (87), Ent. Mag., London, 42.—*Thyamis curta* restored; **Elliman**, (137), T.c.

Hymenoptera.

Bracon spp., with one novelty; **Morley, 2.**

Xeris spectrum, novelty; **Roebuck.**

Megastigmus spermatrophus, novelty; **MacDougall, 2.**

Kieffer, 12; *Proctotrypidæ* spp. n.

Pseudisobrachium cantianum sp. n.; **Chitty.**

Additions to the list of *Aculeata* since 1896; **Saunders, 2.**

Microgasteridae, localities; **Morley, 1.**

Tenthredinidae, revision of list, with tables; **Morice, 1.**

Tenthredinidae, localities for; **Bloomfield**, (116), Ent. Mag., London, 42.

Lepidoptera.

Blastotere glabrata, novelty; **Walsham, 3.**

Stenoptilia graphodaetyla novelty; **Mathew, 1.**

Mesophleps silacellus novelty; **Banks, 2.**

Vol. xi, Completion of Barrett's work; **Barrett, C. G.**

Handbook, Vol. V, *Alucitides*; **Tutt, 4.**

British Butterflies; **South, 2.**

British Butterflies; **Tutt, 5, 6.**

Argyresthia illuminatella as British; **Banks**, (63), Ent. Mag., London, 42.

Tortrix pronubana established; **Adkin**, (306), Ent. Rec., 1906.

Abundance recently of certain species; **Adkin, 1.**

Deilephila livornica captures 1906, Entomologist, 1906, *passim*.

Pyrharetia isabella in Britain; **Chapman**, (101), Ent. Mag. London, 42.

Prodenia littoralis in Britain; **Meldola**, (xvi), London Proc. ent. Soc., 1906.

Laphygma exigua, numerous captures in 1906; cf. Entomologist *passim*.

Orygia gonostigma localities; **Burrows.**

Trichoptera.

Triaenodes reuteri novelty; **Morton, 2.**

Halesus guttatipennis localities; **Porritt**, (91), Ent. Mag. London, 42.

Diptera.

Trichocera maculipennis novelty; **Grimshaw, 4.**

Empis hyalipennis novelty; **Mallock**, (257), Ent. Mag., London, 42.

Phora revision, novelties, 4 spp. n.; **Wood.**

Phora novelties, sp. n.; **Wingate, 1.**

Phora sordida novelty; **Mallock**, (276), Ent. Mag., London, 42.

Phora perennis novelty; **Collin.**

Pegomyia 3 spp. n.; **Stein, 2.**

Tables of British *Diptera*, and introduction to the study; **Wingate, 2.**

Retrospect of 1905; **Collin**, (75, 76), Ent. Rec., 1906.

Hydrotæa, the British, concluded; **Grimshaw, 1.**

Aphaniptera.

Ceratophyllus insularis sp. n.; **Rothschild, N. C., 4.**

Hemiptera.

The British aquatic *Hemiptera* ;
Kirkaldy, 1.

Psocidae.

Reuterella helvimaecula novelty ;
Guermontprez.

Collembola.

Isotoma sp. n., *Entomobrya* sp. n.,
Ireland ; **Carpenter**, 3.

LOCAL LISTS.

Insecta.

Cornwall ; **Clark**.

Polzeath, N. Cornwall captures ;
Gibbs.

Devonshire ; **Goss**.

Dorset, 1905, first appearances ;
Richardson.

Berkshire ; **Fowler**, 2.

Marlborough, novelties, etc. ; **Meyrick**,
(59-70), Marlborough Rep. Coll. Nat.
Hist. Soc., 54.

Somersetshire ; **Blathwayt** and **Hudd**.

Kew gardens fauna ; **Thiselton-Dyer**
and others.

Shropshire captures ; **Melville**, Shrews-
bury Rec. Caradoc F. Cl., 16, (30-33).

Leicestershire, *Lep.* and *Col.* Some
varieties ; **Holyoak**.

Bradford ; *Lepidoptera* **Carter**,
Diptera **Ashworth**, *Blattidae* **Carter** ;
Bradford Nat. Hist. Soc. Rep., 1906,
(1-16).

Galashiels, *Lep.* and *Col.* : **Shaw** and
Whitehead.

St. Kilda, short list ; **Evans**, (87),
Ann. Scot. Nat. Hist., 1906.

St. Kilda, short list ; **Waterston**, 2.

Fair isle : **Grimshaw**, (118), Ann.
Scot. Nat. Hist., 1906.

Ireland, S.W., *Col.* and *Lep.*, short
list ; **Bonaparte-Wyse**, Irish Natural.,
1906, (234).

Coleoptera.

Dawlish, *Sibinia* and *A. filirostre* ;
De la Garde, (180), Ent. Mag., 42.

Yelverton, Devon ; **Donisthorpe**
(133), Ent. Rec., 1906.

Devon, captures ; **de la Garde**, (230,
231), Ent. Mag., 42.

Isle of Wight, annotated catalogue :
Donisthorpe, 6.

Isle of Wight, *Lytta* ; **Bryant**, (180),
Ent. Mag., 42.

New Forest, *Calosoma sycophanta* ;
Walker, (159), Ent. Mag., 42, and **Ethel**
Chawner, T.c. (229).

New Forest, *Gyrinus urinator* ;
Rendel, (273), Ent. Mag., 42.

Lundy island ; **Joy**, 1, list, *Stenus*
ossium var. n., *Melanophthalma dis-*
tinguenda novelty.

Sussex captures ; **Dollman**, (326), Ent.
Rec., 1906.

Ditchling captures ; **Dollman**, (45),
Ent. Rec., 1906.

Dover, *Lytta vesicatoria* ; **Shaw**, (268),
Ent. Rec., 1906.

Dartford, *Procas armillatus* ; **Jennings**,
(138), Ent. Mag., 42.

Kent, in birds' nests ; **Chitty**, (115),
Ent. Mag., 42.

Kent, *Aëtophorus imperialis* ; **Nichol-**
son, (230), Ent. Mag., 42.

Sheppey, *Anisotoma lunicollis* ; **Walker**,
(159), Ent. Mag., 42 ; *Holoparamus*
caularum ; **Walker**, T.c. (231).

Carshalton, *Amara anthobia* ; **Attlee**,
(13), Ent. Mag., 42.

Woking captures ; **Champion**, (255),
Ent. Mag., 42.

Chobham, *Stenus kiesenwetteri*, etc. ;
Champion, (136), Ent. Mag., 42.

Guildford, *Medon castaneus*, etc. ;
Champion, (272), Ent. Mag., 42.

Berkshire, *Microptilium pulchellum* ;
Joy, (180), Ent. Mag., 42.

Sunningdale, *Stenus kiesenwetteri* ;
Donisthorpe, (134), Ent. Rec., 1906.

Reading ; **Joy**, (40), Ent. Mag., 42 ;
Reading, in birds' nests : **Joy**, T.c. (39) ;
Tachyusa concolor, id. T.c. (256).

Newbury, list ; **Harwood**, (87, 88),
Ent. Mag., 42 ; also **Donisthorpe**, (268),
Ent. Rec., 1906.

Epping, *Megacronus inclinans* ; **Doll-**
man, (45), Ent. Rec., 1906.

Hendon, *Enicmerus rufus* ; **Butler**,
(138), Ent. Mag., 42.

Enfield ; **Pool**, (20, 21), Ent. Rec., 1906.

Tottenham, *Trigogenius globulum* ; **Girningham**, (115), Ent. Mag., 42.

Buckinghamshire, list, W. E. **Sharp** ; Ent. Mag., 42, (38, 39).

Oxford captures ; **Walker**, 2.

Oxford, *Anisotomidae*, etc. ; **Walker**, (273), Ent. Mag., 42 ; Oxford, *Sitaris muralis* ; **Hamm**, T.c. (273).

Sherwood Forest captures ; **Taylor**, (272), Ent. Mag., 42.

Suffolk, *Quedius longicornis* ; **Morley**, (211), Ent. Mag., 42.

Suffolk, additions ; **Bedwell**, (12, 13), Ent. Mag., 42.

Norfolk, *Quedius nigrocoeruleus* ; **Joy**, (90), Ent. Mag., 42.

Norfolk broads, *Donacia obscura*, etc. ; **Donisthorpe**, (214), Ent. Rec., 1906.

Holme-juxta-mare, *Apion limonii* ; **Morley**, (229), Ent. Mag., 42.

Derbyshire, *Quedius riparius* ; **Taylor**, (63), Ent. Mag., 42.

Miller's Dale, Derbyshire, *O. rugifrons* ; **Taylor**, (13), Ent. Mag., 42.

Isle of Man ; **Tomlin**.

Southport, novelties ; **Chaster**.

Yorkshire, list, novelties ; **Bayford**, (372, 373), Naturalist, 1906 ; Short list ; **Bayford**, T.c. (180).

Doncaster, *Brosicus*, etc. ; **Corbett**, (223), Naturalist, London, 1906.

Derwent Valley, *Rhizophagus cribratus*, etc. ; **Bagnall**, (256), Ent. Mag., 42.

Cumberland, captures ; **Britten**, (74, 75), Ent. Rec., 1906 ; and **Day**, Ent. Mag., 42, (61-63).

Northumberland, Durham, additions to list ; **Bagnall**, (323, 324), Ent. Rec., 1906 ; *Seydmaenidae* and *Psclaphidae*, id. T.c. (326).

Northumberland, Durham, myrmecophilous *Col.* ; **Donisthorpe**, (159-161), Ent. Rec., 1906 ; *Epuraea*, list of ; **Bagnall**, (159), Ent. Mag., 42.

N. Wales captures ; **Donisthorpe**, (241), Ent. Rec., 1906 ; *Henoticus serratus* ; **Taylor**, (90), Ent. Mag., 42.

Scotland, captures 1905 ; **Carter**, (181, 182), Ent. Mag., 42 ; Scotland, *Pinus tectus* ; **Evans**, Ann. Scot. Nat. Hist., 1906, (56).

Dunfermline and Stromness ; **Beare**, (40), Ent. Mag., 42.

Fair Isle ; **Beare**, 1, 2.

Highlands ; **Bevins**, (134, 135), Ent. Rec., 1906.

Strathspey, *Cryptohymus pulchellus* ; **Black** ; also (321-323), Ent. Rec., 1906.

Sutherland, *Otiorrhynchus morio ebeninus* ; **Taylor**, (272), Ent. Mag., 42.

Orkney and Shetland islands, Catalogue, 246 spp. ; **Poppius**, 10.

Ireland, novelties ; **Johnson**, (11, 12), Ent. Mag., 42 ; captures ; id. T.c. (89) ; short list ; id. Irish Natural., 1906, (74).

Fermanagh, list ; **Johnson**.

Wexford, *Paederus caligatus* ; **Johnson**, Irish Natural., 1906, (14).

Wicklow, *Strangalia aurulenta* ; Sligo, *Pelophila borealis* ; **Carpenter**, Irish Natural., 1906, (275).

Hymenoptera.

Lyme Regis, *Aculeata* captures ; **Nevinson**, (90), Ent. Mag., 42.

New Forest, Cornwall, etc., captures ; **Arnold**, (275), Ent. Mag., 42.

Hastings, *Aculeata* captures ; **Frisby**, (90), Ent. Mag., 42.

Chobham, *Heriades truncorum* ; **Morice**, (214), Ent. Mag., London, 42.

Leith Hill, *Andrena lapponica* ; **Frisby**, (180), Ent. Mag., 42.

Holmwood, Surrey, captures ; **Mortimer**, (232), Ent. Mag., 42.

Northwich, *Athalia scutellariae* ; **Coward**, (233), Ent. Mag., 42.

Yorkshire, *Fossoria* novelties ; **Roe-buck**, (405), Naturalist, 1906.

Yorkshire, *Apidae* 6 spp. ; **George**, (199), Naturalist, 1906.

Northumberland, Durham, *Formicoxenus* ; **Bagnall**, (140), Ent. Mag., 42.

N. Wales, *Andrena lapponica* ; **Gardner**, (213), Ent. Mag., 42 ; *Halictus freygessneri*, id. (214).

Scotland, *Aculeata* ; **Saunders**, 1.

Haddingtonshire, *Crabo carbonarius*, etc. ; **Evans**, (232), Ent. Mag., 42.

Perthshire, *Aculeata* captures ; **Rothney**, (257), Ent. Mag., 42.

Fillans, Perthshire, *Aculeata* list ; **Rothney**, (14), Ent. Mag., 42.

Lepidoptera.

Cornwall, *Deiopeia*, etc. ; **Rollason**, (292), Entomologist, 1906.

Cornwall and S. Devon, *P. daplidice* ; **Lyon**, (290), Entomologist, 1906.

South Devon, *Heliothis peltiger* ; **Walker**, (211), Entomologist, 1906.

South Devon, *Crambus fascellinellus* ; **Edelsten**, (19), Entomologist, 29, and **Studd**, T.c. (43).

Isle of Purbeck, *Sterrhia sacraria* and *Phalonia manniana* ; **Bankes**, (64), Ent. Mag., 42 ; and *Perinephle laucealis*, id. T.c. (138).

Lyndhurst, *Vanessa antiopa* ; **Cripps**, Entomologist, 1906, (161).

Wiltshire, *Heliothis peltigera*, **Boyne**, (234), Entomologist, 1906.

Salisbury and Devizes, *Aporophyla nigra*, etc. ; **Meyrick**, Marlborough, Rep. Coll. Nat. Hist. Soc., 54, (97).

Surrey, *Cateremna terebella* ; **Thurnall**, (180), Ent. Mag., 42.

Eastbourne, sketch of *Lep.* **Jenner** ; *Tortrix promubana*, **Adkin**, (274), Ent. Mag., 42, and **Image**, T.c. (13).

Lewes, *Heliothis peltiger* ; **Vinall**, (211), Entomologist, 1906 ; *Deiopeia* ; **Jarvis**, (292), T.c.

East Grinstead, *Polygonia ee-album* ; **Perkins**, (234), Entomologist, 1906.

Horsham (with dates of appearance) ; **White**.

Bagshot, *Rhopalocera* list ; **Floersheim**, (276), Ent. Rec., 1906.

Camberley, *Boletobia fuliginaria* ; **Tulloch**, (208), Entomologist, 1906.

Reading, *Dicycla oo, renago* ; **Butler**, (161), Entomologist, 1906.

Woking *Deilephila livornica* ; **Smith**, (211), Ent. Mag., 42.

Dorking long list ; **Oldaker**.

Betchworth *Orobena straminealis* ; **Plum**, Entomologist, 1906, (118, 189).

Ranmore Common *Limenitis sibylla* ; **Dods**, (188), **Wightman**, (210), Entomologist, 1906.

Kent *Catoptria aspidiscana* ; **Bower**, (274), Ent. Mag., 42.

Sheppey *Leucania favicolor* ; **Jacobs**, (211), Ent. Mag., 42.—*Leucania favicolor*, id. T.c. (210).

Chiswick ; **Dollman**, Ent. Rec., 1906, (145, 146).

Epping, *Limenitis sibylla* ; **Campion**, (235), Entomologist, 1906.

London S.E. district, catalogue ; **West**.

London district *Tineina*, notes ; **Sich**.

London *Cym. octogesima* ; **Place**, (257), Entomologist, 1906.

Hammersmith ; **Bird**, (204, 206), Ent. Rec., 1906.

Chiltern hills *Epione advenaria*, etc. ; **Bell**, (210), Entomologist, 1906.

Rugby ; **Sanders**, (25, 32), Rugby Rep. School Nat. Hist. Soc., 1905.

Oxford, 1,400 species ; **Walker**, J. J., 3.

Shelford (Cambs.) *Vanessa antiopa* ; **Bagnall**, Entomologist, 1906, (118).

Suffolk, 1905 list ; **Bloomfield**.

East Suffolk, captures, 1905 ; **Waller**.

Woodbridge *Hyloicus pinastri* ; **Waller**, (210), Entomologist, 1906.

Wicken and Huntingdon fens ; **Fryer** and **Fryer**, (139-141), Entomologist, 1906.

Huntingdonshire *Noetuidae* ; **Cox** and **Brooke**.

Abertillery Monmouthshire *Rhopalocera* ; **Rait-Smith**, (308), Ent. Rec., 1906.

Tenby *Plussa ni* and *Laphygma exigua* ; **Finzi**, (212), Entomologist, 1906.

Wye Valley, *Rhopalocera* ; **Bird**.

Wye Valley captures ; **Barraud**, (213, 214), Entomologist, 1906.

Wotton-under-Edge *Argynnis paphia valesina* ; **Perkins**, (211), Entomologist, 1906.

Northants, Victoria county history, supp. ; **Slater**.

Northampton ; **Wallis**.

Chester, 1905 captures ; **Arkle**, (66-68), Entomologist, 1906.

Staffordsh. *Lep.* in 1905; **Bostock**, (66-68). Stafford, Rep. N. Staffs. Field Club, 40.

Leicestershire *Eupithecia debiliata* and other novelties; **Whittingham**, Entomologist, 1906, (42).

Yorkshire, 1905, [Anon.] Naturalist, London, 1906, (39-41).

Yorkshire *Orthotacnia antiquana*; **Lofthouse**, (70), Naturalist, 1906.—*Gelechia scalella*; **Porritt**, T.c. (200).

Huddersfield *Mamestra furva*, *Cucullia verbasei*; **Porritt**, (132), Naturalist, 1906.

Cleveland *Tortricæ*; **Lofthouse**, (91), Naturalist, 1906.

Witherslack, Lancaster, captures; **Mason**, Entomologist, 1906, (66).

Blyth *Daphnis nerii*; **Nicholson**, (267), Ent. Rec., 1906.

Barmouth *Scoparia frequentella portlandica* erroneous; **Bankes**, (40), Entomologist, 1906.

Rannoch captures 1905; **Cockayne**.

North Scotland captures; **Gardner**, (92-95), Ent. Rec., 1906.

Ireland, novelties, **Donovan**, (236), Entomologist. 1906; some rarities, **Middleton**, T.c. (91); *D. livornica* and *H. peltigera*, **Druitt**, (236, 237), T.c.

Londonderry *Lepidoptera* captures, **Campbell**. Irish Natural., 1906, (44), and Londonderry *Deilephila livornica*, id. T.c. Irish, (191).

Trichoptera.

Isle of Man *Limnophilus*; **Porritt**, (42), Ent. Mag., 42.

Scotland novelties; **Morton**, (65), Ent. Mag., 42.

Scotland, 3 novelties; **Morton**, (56), Ann. Scot. Nat. Hist., 1906.

St. Kilda, 5 spp.; **Morton**, 5.

Neuroptera.

Devonshire, account of *Neuroptera* s.l.; **Briggs**.

North Uist; **Morton**, (162), Ent. Mag., 42.

Diptera.

New Forest, *Gastrophilus nasalis*; **Piffard**, (233), Ent. Mag., 42.—Captures; **Adams**, (116, 140), T.c.

(x-9720 j)

Essex, *Merodon equestris*; **Chittenden**, (240), Essex Natural, 14.

Scotland, *Mayetiola destructor*; **Trail**, (244), Ann. Scot. Nat. Hist., 1906.

Forth district, 100 spp.; **Grimshaw**, 2.—7 spp.; **Carter**.

Dumbartonshire, list; **Malloch**, (41), Ent. Mag., 42.

Clyde, *Platypezidae*, *Pipunculidae*, *Syrphidae*; **Henderson**.

Arran *Oncomyia sunderalli*, etc.; **Waterston**, (240), Ann. Scot. Nat. Hist., 1906.

Fair isle, 36 spp.; **Grimshaw**, 3.

Aphaniptera.

Scotland, list; **Waterston**, 3.

Forth district; **Evans**.

Heteroptera.

Hastings, catalogue annotated; **Butler**.

Deal captures; **Butler**, (162), Ent. Mag., 42.

Sheppey, *Lygaeus equestris*; **Walker**, (258), Ent. Mag., 42.

Lancashire and Cheshire, catalogue; **Whitaker**.

Durham, *Aneurus laevis*; **Bagnall**, (158), Ent. Rec., 1906.

Aphidae.

Guernsey, list; **Luff**.

Coccidae.

Forth, *Ripersia subterranea*; **Evans**, (241), Ann. Scot. Nat. Hist., 1906.

Odonata.

Essex, *O. caerulea*; **Campion**, (160), Entomologist, 1906.

Epping, *Odonata*, 1905; **Campion** and **Campion**, 1.—1906; **Campion** and **Campion**, 2.—*Sympetrum vulgatum*; **Lucas**, (xcvii), London, Proc. ent. Soc., 1906.

Norfolk; **Dobson**.

(e.) Central and Eastern Europe.

Insecta.

Nachtrag zu meiner Arbeit: bisherige Veränderungen der Fauna Mitteleuropas durch Einwanderung u. Verbreitung schädlicher Insekten; **Dickel**, Otto.

Petersen, 3; Danish *Orthoptera* and *Neuroptera* (Danish).

Enderlein, 20; Reise durch das westpreussische Küstengebiet.

Lange; Entomologisches aus dem sächsischen Erzgebirge.

Standfuss, 1; Switzerland, introduced insects.

Vogler; St. Gallen, Zoocecidien.

Olasz; Ungarns *Orthoptera* und *Neuroptera* (Ungarisch).

Hoffer and others; Steiermark, entom. Soc. reports.

Rudow, 4; Sammlerfahrt nach Südtirol.

Grigorjev; *Orthopteren* und *Odonaten*, Novgorod (Russ.).

Coleoptera.

Johansen; New and rare *Col.* of Denmark.

Mikutowicz; Baltic provinces, catalogue.

Rathlef, 2 and **3**; Baltic provinces, Catalogue.

Sumakow; baltische *Coleopteren*. (Russ.)

Rathlef, 1; nordlivlandische Seen.

Everts; Holland, novelties, 's Gravenhage, Tijdschr. Ent. **49**, (iii, iv), Verslag.

Everts; Netherlands novelties.

Bivort; Belgium, *Chrysomela didymata*, novelty, Bruxelles, Ann. Soc. ent. Belgique, **50**, (96).

Bovie; Belgium, *Curculionidae* and *Anthribidae*, Catalogue.

Bondroit; Belgium, *Bledius femoralis* und *Platystethus capito*, novelties, Bruxelles Ann. Soc. ent. Belgique, **50**.

Roelofs; Belgium *Curculionidae* novelties.

Severin; Belgium, novelties, Bruxelles Ann. Soc. ent. Belgique, **50**, (192, 193).

Roelofs; Belgium, *Oxytelus rufipes* novelty, Bruxelles Ann. Soc. ent. Belgique, **50**, (219).

Varendorff; Deutsche Nordsee-Küste, Ausbeute, Hamburg eingeschleppte Käfer.

Gerhardt, 4, 5; Silesia, *Atheta* sp. n.

Gerhardt, 2, 3; Neuheiten, schlesische.

Gerhardt, 1; Fundorte seltenerer schlesischer Käfer.

Vorbringer, 1; Sammelbericht, Ostpreussen.

Reitter, 12; Koblenz, *Henoticus* sp. n.

Schreiber; Oderwald, Cerambyciden und Buprestiden.

Reineck; zwei *Chrysomeliden*arten in Thüringen.

Strohmeyer; Deutschland, *Platypus* var. ? *cylindriciformis*.

Born, 4; Monte Generoso Carabenfauna.

Müller, Julius; St. Gallen, 3. Beitrag.

Stierlin; Schaffhausen, Catalogue, 1 Teil und Teil 2.

Koča; Vinkovce, catalogue.

Łomnicki; (Polish) Léopol, Coléoptères, 4-ème partie.

Fleischer, 3; Mähren und Böhmen-*Liodes* sp. n.

Fuchs, G., 3; Borkenkäfer Kärntens.

Krauss; Styria and Herzegovina, *Anopthalmus* 2 spp. n.

Petri, 1; Transsylvanian Alps, *Malthodes* sp. n.

Csiki, 1; Ungarische Morphocaraben, Distribution.

Brancsik; Hungary, Com. Trencsén Catalogue.

Csiki, 3; Borkenkäfer Ungarns (ungarisch).

Csiki, 4; *Carabus* var. n., Komitat Csík.

Vängel; Ungarn, *Coleoptera* (ungarisch.)

Jasilkowski; Bukowina.

Formánek, 1; Dobrudscha, *Brachysomus* sp. n.

(**Fleischer, 6**; Flugzeit von *Colon* und *Liodes* . . . in der Umgebung von Brünn.)

(**Müller, 6**; Vier neue Höhlenkäfer aus dem österr. Litorale.)

(**Reitter, E., 25**; Neue und seltene *Coleopteren*, gesammelt im Jahre 1901, in der Herzegowina, in Dalmatien und Bosnien.)

(Reitter, 28; Uebersicht der *Otiorynchus*-Arten aus der Untergattung *Limatogaster* Apfelb.)

Barovsky, 1; St. Pétersbourg, *Scymnus* sp. n.

Barovsky, 2; *Dicercia miranda* Reitt. neu für Russland. (Russ.)

Mazarakij, 1; St. Petersburg, *Cicindela maritima* Dej.

Mazarakij, 2; Umgebung von St. Petersburg. (Russ.)

Semenov, 3; Moscou, *Copris lunaris* L.

Zaicev, 2; Catalogus Novgorodensis. (Russ.)

Lebedev; Matériaux, Kazan. (Russ.)

Olsufiev; Russie méridionale, *Carabus menetriesi*. (Russ.).

Hymenoptera.

Nielsen, 4; Denmark. Catalogue of the true wasps. (Danish.)

Jørgensen, 3; Danish species of *Pontania*.

Jørgensen, 2; *Cynipidae* in Denmark.

Wasmann, 4; Luxemburg, *Formicidae*, list and tables.

Heyden, 2; Frankfurt-a.-M., *Cynipidae*, *Chalcididae*.

Apidenfauna Schlesiens; **Dittrich**.

Viehmeyer; Sachsen, *Formicidae*.

Scholz, E., 1; Schlesien, Hymenopterologisches vom Sommer 1905.

Frey-Gessner; *Hymen.* Helvetiae, *Apidae*.

Blösch; Laufenburg, *Braconidae* and *Ichnemonidae* Catalogue.

Cobelli, 2; Sezza, Istria, *Formicidae*, list.

Korlevič; Croatia, *Cynips stefanii* and *mayri* novelties; Glasnik Naravosl-druzt., 18, (210).

Mocsáry, 2; Über die Bienen (Ungarisch).

Buttel-Reepen; *Apis meliponoides* in amber, (158), Berlin, Mitt. Zool. Mus., 3.

Wollmann; Bologoje *Aculeata*. (Russ.)

Lepidoptera.

Klöcker; supplement to catalogue of Danish *Macrolepidoptera*.

(N-9720 j)

Snellen, 1; Netherlands, novelties, localities and annotations.

Müllenerberger, 1; Luxembourg synopsis of *Macrolepidoptera*.—**Müllenerberger, 2 and 3**; Luxembourg, *Saturnia pyri*.

Becker, L.; Belgium, chasse de nuit en 1859.

Crombrugghe, 2; Belgium, *Nephopteryx hostilis*, novelty.

Crombrugghe, 1; Belgium, *Microlepidoptera*, annotated Catalogue.

Haverkamp; Belgium, list, novelties, captures, Bruxelles Ann. Soc. ent. Belgique, 50, (146, 147); *Melitaea phoebe* novelty, Bruxelles Ann. Soc. ent. Belgique, 50.

Hippert; Belgium, *Cerostoma sequella* novelty, Bruxelles Ann. Soc. ent. Belgique, 50, (146).

Lambillion, 2 and 3; Belgium, Catalogue.

Lameere; *Melitaea didyma* novelty, Bruxelles Ann. Soc. ent. Belgique, 50, (162).

Seitz, 1; Helgoland, von Heinrich Gätke beobachtet.

Warnecke; Schleswig-Holstein, Beiträge.

Claus; Lothringen, *Saturnia pyri*.

Scherdlin; Strassburg, *Attacus cynthia*.

Schultz, 4; Schlesien, *Acrionicta* sp. n.

Cornelsen; Westfalen, *Vanessa xanthomelas* und *Euchloe belia ausonia*.

Gillmer, 8; Mecklenburg, *Argynnis dia*.

Fassl; Berlin, *Polygonia c-album* ab. f-album Esp.

Hock; Aschaffenburg.

Kolbe, 3; angebliches Vorkommen der Pieride *Euchloe belia*, Cr. in Deutschland.

Pfützner, 3; Sprottauer, *Macrolepidopteren* der Gegend. Nachtrag zum 1. Teil.

Püngeler, 1; Berichtigungen zum *Lepidopteren-Verzeichnis* im I. Jg. [Posener Fauna.]

Nächtlicher Insektenfang. **Rudow, 6**.

Pabst; *Noctuidae*, Chemnitz und ihre Entwicklungsgeschichte. A. *Acronyctinae*.

Bartel, 3; Schweiz, *Sesia* sp. n.

Deuso, 2; Genfer See.

Gurney; Switzerland, excursion captures.

Denso, 1; Dent du Midi, *Deilephila* var. *livornica*.

St. Moritz *Agrotis* sp. n. vide **Bang-Haas** in Pal.

Keynes; Switzerland, captures, *Rhopalocera*.

Standfuss, 1; Switzerland, *Larentia alaudaria* and *Phibalapteryx aemulata*.

Dyakowski; Tableau des papillons ordinaires de la Pologne. (Polish.)

Sitowski, 1; Chaîne de Pieniny, Carpathes, *Macrolepidoptera* list.

Gättnar, 1; Lemberg.

Klemensiewicz; Galicia, annotated list.

Höfner; Carinthia annotated catalogue, *Macrolepidoptera*.

Hormuzaki; Bukowina novelties, Wien, Verh. zool.-bot. Ges., 1906, (238).

Galvagni; Niederösterreich *Acronyeta menyanthidis* novelty, Wien, Verh. zool.-bot. Ges., 1906, (615).

Czekelius, 2; Siebenbürgen, additions to catalogue.

Mayer; Niederösterreich novelties, Wien, Verh. zool.-bot. Ges., 1906, (382).

Preissecker; Lower Austria, novelties, *Calocampa* and *Larentia*, Wien, Verh. zool.-bot. Ges., 1906, (11).

Rebel; Lovrana, *Tephroclystia ericeata*, novelty, Wien, Verh. zool.-bot. Ges., 1906, (4).

Rebel, 12; Styria *Elachista* sp. n.

Rebel, 7; Kirchdorf *Gracilaria* sp. n.

Rebel, 4; Triglav und Črna Prst in Krain, List.

Fischer, H. Kassa, Beiträge zur Lepidopterenfauna. (Ungarisch.)

Czekelius, 1; Siebenbürgen. (Ungarisch.)

Aigner-Abafi, 7; Varr. of Hungarian *Lepidoptera*.

Aigner-Abafi, 2; *Rhopalocera* Ungarns. (Ungarisch.)

Aigner-Abafi, 4; Neue Falterformen aus Ungarn. (Ungarisch.)

Aigner-Abafi, 5; Zuwachs der ungarischen Lepidopterenfauna im Jahre 1905. (Ungarisch.)

Uhryk; Ungarn, Beiträge zur Schmetterlingsfauna von. (Ungarisch.)

Krulikovsky; Ourjoun, gouv. de Viatka. (Russ.)

Zaicev, 1; Lepidopterenfauna von Novgorod. (Russ.)

Šugurow, 2; Chersoner Gouvernement.

Kosminskij; Krim, Macrolepidopteren des Südufers der.

Höltzermann; Katalog der Schmetterlinge der Stadt Perm. (Russ.)

Jachontov, 2; *Rhopalocera* der Gouv. Vladimir und Nijni-Novgorod. (Russ.)

Trichoptera.

Weele; Netherlands, *Setodes interrupta*, novelty; Ent. Ber. Nederland, 2, (147).

Thienemann; Tiroler Trichopteren.

Neuroptera.

Petersen, 2; Denmark, *Planipennia*.

Enderlein, 19; Berlin, *Coniopterygidae* 2 spp. n.

Frey-Gessner; Switzerland, *Acanthacლის occitanea*; Bern. Mitt. schweiz. ent. Ges., 11, (166).

Diędzielewicz, 2; Galicie et Silésie, Catalogue des *Hémérobiines*. (Polish.)

Strobl, P. G., 2; Steiermark, *Neuroptera* s.l., synopsis.

Diptera.

Kieffer and Nielsen; Denmark, *Rhabdophaga* sp. n.

Meijere, 3; Holland, *Cecidomyiidae* 2 spp. n.

Guilliaume; Belgium, numerous novelties.

Jacobs, J. C.; Belgium, Catalogue fam. x-xxiii.

Kieffer and Thienemann; Germany, *Orthocladus* 2 spp. n.

Rübsaamen; Germany, auf *Vitis*, *Cecidomyiidae* 3 spp. n.

Czerny, 3; Austria, *Gaurax* 2 spp. n.

Landrock; Brünn, *Brachycera*.

Czerny, 1; Oberösterreich, *Chortophila* 2 spp. n.

Seitner; Idria *Cecidomyiidae* gen. n.

Bartel; Ungarn, Beiträge. (Ungarisch.)

Portschinsky, 3; Russia, *Rhinocetrus purpureus* Br.

Meunier, 2; Baltic amber, *Psychodidae* and *Tipulidae*.

Hemiptera-Heteroptera.

Schouteden; Bruxelles, novelties, Bruxelles, Ann. Soc. ent. Belgique, **50**, (310).

Hueber; Deutschland, *Capsidae*. Synopsis.

Lörincz; Ungarn, Beitrag. (Ungarisch.)

Horváth, 7; Crimée, *Miraria* gen. n.

Bianchi; Heteropterenfauna, Novgorod.

Jakovlev, 4; Tauride, Hétéroptères. (Russ.)

(Guérin, J.; Matériaux pour servir à l'histoire des Hémiptères.)

Homoptera.

Matsumura, 1; Westpreussen, *Chlorita*, *Delphax*, *Deltocephalus*, *Eupteryx*, *Thamnotettix* spp. n.

Schugurov; Krim, *Homoptera*, Catalogue.

Aphidae.

Schouteden, 9; Belgium, Catalogue, 4 spp. n.

Coecidae.

Oudemans; *Orthezia urticae*.

Psocidae.

Enderlein, 18; Copeognathen-Fauna Westpreussens.

Zavarzin; Copeognathen, Novgorod. (Russ.)

Ephemeridae.

Dziędzielewicz, 1; Galicie, Ephémérides. (Polish.)

Klapálek, 4; Croatia-Slavonia, *Neuroptera*, list, *Rhitrogena* sp. n.

Odonata.

Petersen, 1; Denmark, list.

Timm; Hamburg, Verzeichnis

Orthoptera.

Alfken; Verzeichnis der bei Bremen aufgefundenen *Orthoptera genuina*.

Geisenheyner; Kreuznach, *Ephippigera vitium*.

Werner, 2; Orthopterenfauna des Pittenthaler von Sebenstein bis Aspang.

Adelung, 1; Orthopterorum Rossiae. I. (Russ.)

Shugurov, 1; Notices orthoptérologiques. II. (Russ.)

Thysanura.

Filiptschenko; Bologoje, niedere Insecten. (Russ.)

Shugurov, 2; *Machilinus rupestris*.

Collembola.

Axelsson; Reval, 68 spp., 1 sp. n.

(f) France.

Insecta.

Marchal and Chateau; Saone et Loire, Catalogue des Zoocecidies.

Mabille, 3; Ile d'Oléron, faune, *Coleoptera*, *Orthoptera*, *Odonata*, *Neuroptera*, *Hymenoptera*, *Lepidoptera*, with *Lita* sp. n.

Peyerimhoff, 1; Basses Alpes, Faune cavernicole.

Coleoptera.

Barthe; France and Corsica, catalogue *Coleopterorum*.

Dubois, A.; *Aleochara* gallo-rhéens.

Le Comte, 2; Lamellicornes, Tableaux de détermination.

Deville Sainte-Claire, 2; Contributions à la faune française.

Desbrochers, 8; France and Corsica, *Pterostichus* of, part 1.

Deville Sainte-Claire, 1; *Meira*, synopsis.

Desbrochers, 6; *Cleonus* of France and Corsica.

Desbrochers, 1; *Orthochaetes* sp. n.

Bedel, 3; *Onthophagus grossepunctatus* novelty.

Chobaut, 2; Novelty, *Mardellistena tournieri*.

Abeille, 1; *Miarus* 3 spp. n.

Normand; *Amauryonx* sp. n., *Bryaxis* sp. n., *Cephennium* sp. n.; *Tachysa-raptor*, *Dimerus staphylinoides*.

François; Pas-de-Calais, *Aegialia rufa*. Paris, Bull. soc. ent. France, 1906, (162).

Lesne, 8; Rueil, *Brachyrrhinus gyrosicollis*.

Saulcy, de; Lectoure *Trechus* sp. n.

Desbordes; Seine-et-Maine, *Drapetes mordelloides*, Paris, Bull. Soc. ent. France, 1906, (197).

De La Porte, 1; Choisy-le-Roi, *Steatoderus ferrugineus*, St. Eflani, *Chrysomela lucida*.

Péneau, 2; Loire-Inférieure.

†**Cayeux**; Finistère *Col.* remains in peat.

Desbrochers, 7; Cher et Loire, flood-refuse.

Clermont; Gers.

Desbrochers, 5; Gard *Orthochaetes* sp. n.

Deville Sainte-Claire, 4; Auvergne, 3^e supplément.

Fauvel, 2; Auvergne (mont Dore et Plomb-du-Cantal), 4^e supplément.

Planet, 2; Sainte-Mesme (Isère), Coléoptères cavernicoles de la grotte de.

Jeannel, 5; Ariège, *Bathyscia* 2 spp. n.

Pic, 34; Basses-Alpes, *Erodinus*.

Jeannel, 1; Basses-Pyrénées, *Bathyscia* sp. n. and *Bathysciella* gen. n.

Jeannel, 6; Pyrénées orientales, *Troglyphes* sp. n.

(**Abeille de Perrin, 12**; *Bythinus* nouveau de France.)

(**Abeille de Perrin, 2**; *Trechus* avengles européens.)

(**Abeille de Perrin, 4**; *Trechus* nouveaux de France.)

(**Abeille de Perrin, 5**; Coléoptère hypogé français.)

(**Abeille de Perrin, 6**; *Bathyscia* des Basses-Pyrénées.)

(**Abeille de Perrin, 7**; Coléoptère français nouveaux.)

(**Abeille de Perrin, 8**; *Trechus* nouveau de France.)

(**Abeille de Perrin, 10**; Nouveau Coléoptère.)

(**Bedel, 8**; Curculionide aquatique: *Stenopelmus rufimanus*.)

(**Bedel, 9**; Coléoptères recoltés à la Ferté.)

(**Bedel, 10**; Coléoptères d'Itteville (Seine-et-Oise), (176-177), Paris, Bul. soc. ent., 1905.)

(**Bourgeois, 6**; Nouvelle espèce de *Malthodes*.)

(**Bourgeois, 9**; *Malthodes* nouveaux.)

(**Bruyant, C.**; Buprestide fossile . . .)

(**Chobaut, 9**; Deux coléoptères cavernicoles nouveaux.)

(**Chobaut, 10**; *Trechus* nouveau . . .)

(**Chobaut, 11**; *Ripidius* nouveau.)

(**Chobaut, 13**; *Hydroporus* nouveau.)

(**Chobaut, 15**; Un staphylinide nouveau.)

(**Chobaut, 17**; Un Coléoptère cavernicole nouveau.)

(**Deville, Sainte-Claire, 7**; Harpalide.)

(**Dodero, 1**; Psélaphide aveugle . . .)

(**Le Comte, 4**; Tableaux de détermination des Cétonides . . .)

(**Mayet, 4**; Aphodius nouveau . . .)

(**Péneau, 2**; Excursions entomologiques.)

(**Peyerimhoff, P., 5**; Nouveau Silphide cavernicole . . .)

(**Peyerimhoff, 6**; Coléoptères cavernicoles inédits.)

(**Peyerimhoff, 7**; Coléoptère cavernicoles . . .)

(**Fuel, L.**; *Anisodactylus* nouveau.)

Hymenoptera.

Gaule; Catalogue.

Berthoumieu, 1; *Ichneumonidae* 4 spp. n.

Vachal, 1; Canigou *Andrena* sp. n.

Lepidoptera.

Viard; various localities, 8 spp., Paris, Bull. Soc. ent. France, 1906, (150).

Vaucher; *Syntomis alicia*.

Dietze, 3; Lothringen, *Cirrhoedia xerampelina*.

Smits, 3; Dép. du Nord, *Chloanta polyodon*.

Poulot; Etampes, *Vanessa lerana prorsa*.

Goltz; Lothringen, *Saturnia pyri*.

Joannis; Seine-et-Oise *Schoenobius gigantellus*, Paris, Bull. Soc. ent. France, 1906, (140).

Balestre, 1; Nice, *Acidalia* sp. n.

Siepi; Bouches-du-Rhône, Catalogue.

Foulquier; Bouches - du - Rhône, *Zyaena*; also **Anfrie**.

Rowland-Brown; Pyrenees, *Lycæna* var. *lycidas* correction, Entomologist, 29, (19).

Rondou, 1; Microlépidoptères de la vallée de Barèges.

Oberthür, 8; Pyrénées orientales *Lycæna donzelii*, Hautes Alpes *Chelonia flava*.

(**Balestre, 2**; *Plusia* nouvelles des Alpes-Maritimes.)

Neuroptera.

Navas, 5; Fontainebleau, *Myrmecleon nostras*.

Lucas, 5; South France, brief list.

Diptera.

Villeneuve, 5; Catalogue des Diptères de France, *Leptidae* and *Stratiomyidae*.

Conte et Vaney; *Anopheles maculipennis*, région lyonnaise.

Kieffer, 9; Moulins *Rhabdophaga* sp. n.

Villeneuve, 1a; Montpellier *Limnophora* 2 spp. n.

(**Villeneuve, 1**; Coup d'œil sur la faune diptérologique des Alpes françaises.)

(**Villeneuve, 2**; Diptères de France.)

(**Pandellé, 3**; Le *Cheilosia* . . .)

(**Pandellé, 1**; Etude sur les Muscides.)

(**Pandellé, 2**; Catalogue des Muscides.)

Hemiptera-Heteroptera.

Guérin and Péneau; *Lygaeidae* of France, Catalogue.

Roger, 4; Angers, criticism of recent records.

Abot; Angers, *Nabis boops*.

Pionneau; Hémiptères, faune française, *Nabis boops* Bretagne.

Lambertie, 2; Bordeaux short list, *Systellonotus* sp. n.

Péneau; Loire-Inférieure, novelties. Bull. Soc. Sci. Nat. Ouest., France, Ser. 2, (xxii).

(**Reuter, 12**; *Capsides*, nouveaux).

Coccidae.

Leonardi, 3; Nancy, *Leucaspis* sp. n.

Orthoptera.

(**Fagniez, Ch.**; *Dolichopoda palpata*.)

Bérénguier; *Saga serrata*.

Vuillemin; Lorraine, *Mantis*.

Azam, 2; Pyrénées, *Stenobothrus* sp. n.

†**Meunier, 6**; Fontanes houillier supérieur, *Ectoblattina* sp. n.

(**Borelli, 6**; Forficules des Pyrénées).

(g) South Europe and Mediterranean.

Insecta.

Tavares, 3; Portugal, synopsis of zoocecidia.

Tavares, 1, 2, 4; Spain and Portugal, galls.

Fuente; Ciudad Real, captures.

Navás, 4; Aragón, brief lists.

Cecconi; Tuscany galls.

Olivier, 3; Bou-Saada, excursion.

Graeffe, 1; Tunis, catalogue with localities.

Penther; Erdschias-Dagh, account of journey.

Coleoptera.

Solari, 2; Algeria, Tunis, Italy, Herzegovina, *Cureulionidae* 12 spp. n.

Desbrochers, 4; Spain, N. Africa and Asia Minor, *Cureulionidae* 13 spp. n.

Desbrochers, 3; Algeria and Asia Minor, *Holeorhinidae* 4 spp. n.

Flach, 1; Portugal, *Elaphocera* sp. n., *Apion* sp. n.

Escalera, 6; Spain, *Asida*, 2 spp. n.

Pic, 19; Espagne, *Anthicus* and *Gymnetron* sp. n.

Reitter, 16; Spain, *Helops* 2 spp. n., *Cureulionidae* 6 spp. n.

Escalera, 2; Murcia, *Asida* sp. n.

Escalera, 5; Motril, *Asida* sp. n.

Bickhardt, 1; Reise nach Korsika.

Bickhardt, 2; Corsica, list, novelties, *Amara* sp. n.

Déville, 5; Corsica, Catalogue, *Carabidae* to *Staphylinidae*; *Bembidium*, *Amara*, *Medon*; spp. n.

Maindron, 8; Corsica, list *Carabidae*, with correction, T.c. (291).

Grandi, 1; Sardinia, *Cicindela* sp. n.

Jacobson, 3; Sardinia, *Labidostomis* sp. n.

Razzauti; Elba, Pianosa, list.

Botto, 2; Italia, Aggiunte al catalogo del Bertolini.

Vitale, 2; Italia, note topografiche.

Porta; *Stafilinidi* italiani, revisione.

Leoni, 1; Italia, novelties, *Rhizotrogus* and *Otiorrhynchus*, sp. n.

Leoni, 3; Italia, *Cebrio* sp. n.

Amore, 1; Italia, *Hoplia* sp. n.

Amore, 4; Italia, *Eudipmus* sp. n.

Fiori, 1; Italia, *Malthodes* revision, completed, 3 spp. n.

Mainardi; Italia, *Cureulionidae* gen. n.

Kuhnt, 1; Käfersammler im Mai am Garda-See.

Leoni, 2; Umbria, *Chilotoma* sp. n.

Silvestri, 1; Umbria, *Rhipiphoridae* gen. n.

Fiori, 2; Emilia, *Heterocerus*, *Agrilus*, *Dasytes* and *Orchestes*, sp. n.

Amore, 2; Monte Sirenti, *Otiorrhynchus* sp. n.

Raffray, 1; Rome, *Amaurops* sp. n.

Reitter, 2; Calabria, *Trimium*, *Euplectus*, *Bythinus*, *Tentyria* sp. n.

Fiori, 3; Sicilia, escursione in; *Otiorrhynchus* sp. n.

Ragusa, 1; Apion di Sicilia.

Fiori, 4; Sicilia, *Mastigus*.

Pic, 36; Sicilia, *Cantharis* sp. n.

Reitter, 17; Sicilia, *Cisurgus* sp. n.

Reitter, 18; Sicilia, *Epuraea* sp. n.

Solari, 1; Sicilia, *Dichotrachelus* sp. n.

Vitale, 1; Sicilia, *Cureulionidae* 6 spp. n.

Dombrowski and Born, 3; Ausflug in Südbosnien.

Montandon; Roumania, Catalogue.

Müller, Josef, 5; Dalmatia, *Cerambycidae* Catalogue.

Apfelbeck; Albanien und Montenegro, 20 spp. n., *Carabidae*, *Bythinus*, *Sphaerosoma*, *Helops*, *Otiorrhynchus*, *Bagous*.

Formánek, 2; Montenegro, *Anillocharis* sp. n.

Bedel, 1; Maroc, Algérie, Tunisie et Tripolitaine, avec notes sur la faune des îles Canaries et de Madère: *Carabidae* 5 spp. n.

Peyerimhoff, 3; Nord-Africa, *Ptenidium* sp. n., *Scopacus* sp. n.

Déville, Sainte-Claire, 3; N. Africa, *Hydraena*, synopsis.

Desbrochers, 2; Tangier *Elytrodon*, Algeria *Chaerocephalus* sp. n.

Escalera, 1; Mogador, *Filalia* sp. n., *Anoxia* sp. n.

Portevin, 1; Maroc, *Hydnobius* sp. n.

Lesne, 14; Sahara, *Opilo* sp. n.

Pic, 32; Algérie, petite excursion.

Chobaut, 7; Algérie *Metophthalmus* sp. n.

Bourgeois, 2; Algérie, *Rhagonycha* sp. n.

Peyerimhoff, 3; Algeria, *Euplectus* sp. n., *Atheta* sp. n.

Régimbart, 2; Algérie, *Deronectes* sp. n.

Pic, 15; Algérie et Tunisie, *Ptinidae* list, *Anthicus* 2 spp. n.

Kerremans, 3; Egypt, *Acmacodera* sp. n.

Bodemeyer; Klein-Asien.

Weise, 3; Asia Minor, *Pachybrachys* sp. n.

Gauckler, 5; Palästina.

Ganglbauer, 2; Erdschias-Dagh, Asia Minor, list, 20 spp. n., *Carabidae*, *Philonthus*, *Trichodes*, *Curimus*, *Tenebrionidae*, *Omophlina*, *Mylabris*, *Pachybrachis*, *Cureulionidae*, *Hoplia*.

Pic, 31; Asie mineure *Cyclomias*, Mésopotamie et Egypte *Throscus* spp. n.

Pic, 34; Taurus, *Tetrigus cyprius*.

(**Abeille de Perrin, 3**; Deux espèces de Coléoptères d'Algérie.)

(**Bedel, 6**; Nord de l'Afrique, Catalogue.)

(**Bedel, 7**; Nouveau type de Cléonides.)

(**Bedel, 11**; Coléoptères nouveaux.)

(**Bedel, 12**; Coléoptères européens retrouvés en Barbarie.)

(**Bourgeois, 7**; Nouvelle espèce du genre *Malthodes*.)

(**Bourgeois, 12**; Une nouvelle Lycide.)

(**Demaison, Ch.** Espèces nouvelles d'Asie Mineure.)

(**Deville, Sainte-Claire, 6**; *Dyschirius* nouveau.)

(**Buysson, du, H., 6**; Elatérides nouveaux.)

(**Fauvel, 8**; *Geostiba* nouvelle d'Algérie.)

(**Fauvel, 13**; *Platyprosopus* nouveau d'Afrique.)

(**Fauvel, 19**; Trois Staphylinides nouveaux de Barbarie.)

(**Fleutiaux, Ed., 4**; Elateridae.)

(**Mollandin de Boissy, 2**; *Copris* d'Algérie.)

(**Petri, 3**; Bestimmungs-Tabelle der . . . Gattung *Lixus* Fab. aus Europa und den angrenzenden Ländern.)

(**Peyerimhoff, 8**; *Acidota* et *Cylindropsis* en Algérie.)

(**Peyerimhoff, 9**; Coléoptères du Nord-Africain.)

(**Pic, 44**; *Cardiophorus* de Syrie.)

(**Pic, 52**; Les *Dasycerus* algériens.)

(**Ragusa, 7**; Coleotteri nuovi o poco conosciuti della Sicilia.)

(**Reitter, 26**; Siebzebnter Beitrag zur Coleopterenfauna von Europa und den angrenzenden Ländern *fb.*)

(**Reitter, 30**; Neue . . . in Kleinasien gesammelte Coleopteren.)

(**Stierlin, 2**; Sicile, *Cureulionides*.)

(**Vitale, 4**; Sicilia, *Coccinellidi*.)

Hymenoptera.

Forel, 1; Asia Minor and Dobrudscha list, *Camponotus* sp. n.

Tavares, 2; Portugal, *Timaspis* sp. n.

Mercet; Spain, *Gorytes* and *Stizus*, 7 spp. n.

Dusmet, 2; *Coelioxys* of Spain.

Eaton; Burgos, *Aculeata* during eclipse of sun.

Dusmet, 1; Albarracin, *Calamoscha* and *Calatayud*, list.

Garcia, Mercet; *Ammophila*, 3 spp. n.

(**Berthoumieu, 3**; Ichneumonien de l'Espagne.)

Mantero, 1; Isola del Giglio, Catalogo, Parte I, *Chrysididae* and *Aculeata*.

Mantero, 2; Liguria, *Cynipidae* catalogue.

De Stefani Perez, 1; Sicily, *Cynips* sp. n.

Schulz, W. A., 2; Creta, Catalogue, annotated, *Halictus* sp. n.

Garcia, Mercet; Tangier, *Ammophila* sp. n.

Berthoumieu, 1; Algérie, *Ichneumonidae* 4 spp. n.

Konow, 2; Algeria, *Lophyrus* sp. n.

Surcouf, 1; Littre (Algérie), *Mutilles*.

Kohl, 1; Erdschias-Dagh, Asia Minor, list, 19 spp. n., *Tenthredinidae*, *Ichneumonidae*, *Alastor*, *Apidae*.

Schulz, M. A., 3; Taurus, *Aulacus* sp. n.

Lepidoptera.

Mendes; Portugal, *Microlep*, Catalogue.

Vieilledent; Setubal, list.

Mabille, 2; Spain, *Caradrina* sp. n., *Ellopi* sp. n., gen. n. aff. *Rhaphiptera*.

Püngeler, 2; Andalusia, *Hadena* sp. n.

Sheldon; Central Spain, excursion.

Chrétien, 2; Guadarrama, *Solenobia* sp. n.

Fontaine; Central Aragon, *Melitaea desfontainii* and *M. aurinia iberica*, (42), Entomologist, 1906.

Jones, A. H.; also **Prout, 1**; Balearic islds., short list.

Costantini; Modenese e Reggiano, 18 varr.

Rostagno; campagna romana, note.

(**Krüger**, 1, 2; Beitrag zur Lepidopteren-Fauna Siciliens.)

Galvagni; Ins. Grado, *Conchylis* sp. n.

Spröngerts; Über Dalmatien nach der Herzegowina und Bosnien, Verzeichniss.

Schawerda; Bosnien und Herzegowina, novelties, Wien Verh. Zool.-bot., Ges., 1906, (650); and **Neustetter**, T.c. (652).

Rebel, 2; Morea Nachtrag 2. 5 spp. n.

Bartel, 1; Algier, *Acidalia* sp. n.

Fontaine; Algeria, *Rhopalocera*.

Mabille, 2; Algérie, list, *Costalbella*, *Euzophora*, *Ambesa*, *Euschraemon*, sp. n.

Lucas, 3; Tunis, *Lymantria* sp. n.

Walsingham, 2; Egypt, *Stagmatophora* sp. n.

Willcocks; Injurious to the cotton plant in Egypt.

Rebel, 10; Crete and Egypt, *Agrotis*, *Larentia*, *Orsonoba*, *Cochlidion*, 5 spp. n.

(**Blachier**, 3; Lépidoptères du Maroc.)

Graves; Syria, *Rhopalocera*, excursion, (124-126, 149-152), Ent. Rec., 1906.

Rebel, 8; Palästina, *Orsonoba* sp. n.

Gauckler, 1; Palästina, Beiträge zur Lepidopterenfauna.

Rebel, 5; Erdschias-Dagh Asia Minor, list, spp. n., *Polia*, *Dyspessa*, *Lita*, *Rhinosia*, *Megacraspedus*, *Symmoca*, *Scythis*, *Atylia*.

(**Chrétien**, 5; Lépidoptère nouveau, dq.)

Trichoptera.

Morton, 4; N.W. Spain, *Adicella* sp. n.

Morton, 3; Sicily, short list.

Lucas, 6; Spain, short list.

Navás, 2; Spain, *Nemopterides* gen. n.

Navás, 1; Italia mer., short list.

Bischof; Erdschias-Dagh Asia Minor, *Neuraptora* s.l., list.

Syria *Ascalaphidae* and *Myrmecleonidae*, vide Caucasus, etc.: **Klapalek**.

Diptera.

Becker, 2; *Usia*, revision, with 10 spp. n.

Tavares, 1; Portugal, *Cecidomyiidae* 2 spp. n.

Tavares, 4; Portugal, *Macrolabis* sp. n.

(**Corti**, E.; Alcuni Ditteri del Portogallo.)

Strobl, 1; Spain, 59 spp. n.

Tavares, 8; Spain, *Cecidomyiidae* 3 spp. n.

Kieffer, 9; Italy, *Rhabdophaga* sp. n.

Kieffer and **Cecconi**; Sicily, on *Mangifera indica* at Palermo, *Cecidomyiidae* gen. n.

Becker, 1; Algeria, Tunis and Tangier, *Stratiomyiidae* 7 spp. n., *Pombyliidae* 25 spp. n., *Leptis* sp. n., *Mydasidae* sp. n., *Asilidae* 12 spp. n.

Sack, in **Graeffe**; Tunis, list, *Mulio* sp. n.

Roubaud, 10; Biskra, *Simulium* sp. n.

Neveu Lemaire, 1; Suez, *Taeniorhynchus* sp. n., list of N. African *Culicidae*.

(**Neveu-Lemaire**, 3; *Stegomyia* de Maroc.)

Bischof; Erdschias-Dagh Asia Minor, spp. n., *Tipula*, *Gonia*, *Micropalpus*, *Pseudomimtho*, *Platystoma*.

Hemiptera-Heteroptera.

Reuter, 5; Greece, Asia Minor, Syria, Egypt, *Capsidae*, 16 spp. n.

Royer, 2; Majorca list.

Horváth, 5; Biskra and Syria, *Odontotarsus* spp. n.

Horváth, 9; Erdschias-Dagh Asia minor, *Heteroptera* and *Homoptera*, 10 spp. n., *Peribalus*, *Tingis*, *Gryppocoris*, *Cyphodema*, *Macrotelus*, *Sthenarus*, *Orgerius*, *Hysteropterum*.

Aphidae.

Del Guercio; Italy, gen. n. near *Vaenna*.

Coccidae.

Leonardi, 1, 3; Valencia botanic garden, *Aonidia* sp. n.

Franceschini; Italia, *Diaspis pentagona*.

Leonardi, 1; Italy, *Aonidiella* sp. n.

Berlese and Silvestri; Italy, *Leeanites* gen. n.

Marchal, 3; Algérie, *Lécanides* gen. n., sp. n.

Odonata.

Bentivoglio; Sardinia, list, Annuario Mus. zool. Univ. Napoli, **1**, No. 35, (1-7).

Bentivoglio; Italia meridionale, list, T.c., No. 32, (1-12).

Orthoptera.

Tavares, 6; Portugal, *Phasmidae* of.

Burr; Dalmatia and Montenegro, Entomologist, 1906, (169-172).

Werner, 4; North Africa and Syria, *Blattidae*, *Mantidae*, *Acridiidae*, *Gryllidae* spp. n.

Bolívar, 3; Sahara, *Leptynia* sp. n.

Bolívar, in, **Foureau**; Sahara, *Eremicaphila* sp. n., *Leptynia* sp. n.

Werner, 3; Erdschias-Dagh Asia minor, list.

Thysanura and Collembola.

Navás, 6; Spain and Portugal, *Lepisma* and *Utenolepisma* sp. n.

Pitarque; Saragossa, *Collembola*, list of.

Börner, 4; Kairo, *Cyphoderus* sp. n.

(h.) **Caucasus, West and Central Asia.**

Coleoptera.

Petri, 2; *Lixus* 2 spp. n.

Semenov, 2; *Analecta coleoptero-logica*.

Semenov, 4; *Physetops* sp. n., distribution géographique. (Russ.)

Reitter, 9; Zentr. und Westkaukasus, *Campylus* spp. n.

Casey; Caucasus *Leptacinodes perexilis* sp. n.

Koenig; Caucasus, novelties and localities, *Blaptini* gen. n., *Omophlus* sp. n., *Phytoecia* sp. n.

Semenov, 1; *Coleoptera heptopotamica*, (3-4), *Badister*, *Leistus* sp. n.

Pic, 28; Perse, Buchara and Thibet, *Malachius*, *Anthicus*, *Kytorrhinus*, *Doreadion*, spp. n.

Pic, 39; Persia *Cerambycidae* list, *Strangalia* sp. n.

Portevin, 2; Perse, *Silphides*, list.

Sicard, 2; Perse, *Coccinellides*.

Buysson Du, H., 2; Perse, *Cardiophorus* and *Silesis* sp. n.

Desbrochers, 4; Bagdad, *Sharpia* sp. n.

Ganglbauer, 2; Persia, *Amphicoma* sp. n.

Lesne, 5; Sokotra, *Bostrychidae* 2 spp. n.

Reitter, 11; Baldschuan, *Oedichirus* sp. n.

Pic, 5; Turkestan, *Anthicus* sp. n.

Poppius, 4; Askabad *Pogonus*, Altai *Pterostichus*, spp. n.

(**Choubaut, 12**; Deux Coléoptères nouveaux de l'Arabie.)

(**Fauvel, A., 7**; Staphylinides nouveaux du Sinaï et de la mer Rouge.)

(**Pic, 47**; Genre *Adoretus*, ei.)

Hymenoptera.

Mocsáry, 1; Alai mts., *Coelonites* sp. n.

Kokonyew, 1; Centr. Asia, inc. desert, Gobi, *Vipio* 4 spp. n.

(**Ashmead, 4**; Two new *Mymaridae*, Russian Turkestan.)

Mayr; Jemen, *Ceratosolen* spp. n.

Lepidoptera.

Slevogt, 2; Einige asiatische Lepidopteren.

Püngeler, 3; W. Asia, *Diaerisia* sp. n., *Noctuidae* 30 spp. n.

Dietze, 1; Kasikoparan and Ordubad, *Eupithecia* 2 spp.

Tschetverikow, Verzeichnis, Küsten des Aral-Sees. (Russ.)

Suschkín; Tarbagatai, *Argynnis*-Form.

Hampson, 1; Aden, *Pyralis* sp. n., *Constantia* sp. n.

Neuroptera.

Klapalek, 1; Persia and Syria, *Myrmeleonidae* *Ascalaphidae* list.

Diptera.

Becker, 4; Gobi, Tjanschanj, Tibet, *Timia* spp. n.

Giles, 2; North Arabia *Mansonina* sp. n.

Aphaniptera.

Rothschild, N. C., 3; Ancouza Centr. Asia, *Chaetopsylla* 2 spp. n.

Hemiptera-Heteroptera.

Jakovlev, 3; *Byrsinus*, russo-asiatique, sp. n. (Russ.)

Horváth, 10; Persia, *Mustha* 2 spp. n.

Orthoptera.

Azam, 1; Caucasus, *Forficula* sp. n.

Africa.

Insecta.

Sjöstedt; Kihundjaro summit, traveller's account.

Balfour, 3; Khartoum, biting and noxious insects other than mosquitoes.

Meunier, 8; Zanzibar, copal Ins., *Hym.* and *Dipt.*

Silvestri, 3; Eritrea, *Eutermes* sp. n. *Termitodiscus* sp. n., *Thaumatoxena* sp. n.

Coleoptera.

Arrow, 3; Trop. Africa, *Passalidae* 7 spp. n.

Bernhauer, 1; *Staphylinidae* 11 spp. n.

Bourgeois, 5; *Lycus* 3 spp. n.

Gestro, 4; *Hispidae* 11 spp. n.

Gestro, 6; *Ichthyurus* 6 spp. n.

Jacoby, 4; *Halticinae* and *Galerucinae* 59 spp. n.

Jacoby and Clavareau; *Peploptera* 3 spp. n.

Kerremans, 3; *Buprestidae* spp. n.

Kolbe, 1; *Daemonoplus muizechi* is not African.

Lesne, 5; Trop. Africa, *Micrapate* and *Xylionulus* 2 spp. n.

Lesne, 6; *Sinoxylinae* revision, 14 spp. n.

Lewis, 1; *Histeridae* 3 spp. n.

Lewis, 2; *Histeridae* 5 spp. n.

Nonfried; S. Africa, Angola and Zambesi, 4 spp. n., *Coniopholis*, *Symctiotopa*, *Spaarmanina*.

Obst, 1; *Anthia* 2 spp. n.

Pic, 17; *Zygia* and *Dinometopus*, spp. n.

Pic, 26; *Idgia*, exotique.

Schenkling, 1; *Cleridae* spp. n.

Schwarz, 3; *Tarsalgus* and *Dieronychus* 4 spp. n.

Sternberg, 1; *Anthia*, *Eccoptoptera*, spp. n.

Arrow, 2; Portuguese W. Africa, *Lamellicornia* 9 spp. n.

Fauvel, 5; Guinée espagnole, *Staphylinidae* 4 spp. n.

Fleutiaux, 2; Africa occ. *Ischiodontus* sp. n.

Gestro, 5; Africa occ.; Catalogue of African *Hispidae*, 16 spp. n.

Griffini, 2; Africa occ. *Lucanidae* list.

Kerremans, 4; Africa occ., list, *Coraebus* and *Agrilus* 5 spp. n.

Lesne, 12; Africa occ., *Bostrychidae* list, 2 spp. n., *Sinoxylon* and *Apate*.

Lewis, 4; Africa occ., *Histeridae* list 9 spp. n.

Olivier, 2; Afrique occ. *Diaphanes* 2 spp. n.

Orbigny, 1; W. Africa *Onthophagus* sp. n.

Pic, 35; Afrique occ. *Silis* 2 spp. n.

Sternberg, 3; W. Africa, *Anthia*.

Weise, 2; Cameroons *Coccinellidae* gen. n.

Weise, 6; Cameroons *Asbecesta* 2 spp. n.

Pangella; Ruwenzori, *Passalidae* sp. n.

Schilsky, 1; Usambara *Mordellidae* 2 spp. n.

Olivier, 4; E. Africa *Luciola* sp. n.

Pic, 33; Afrique or. *Cantharis* 2 spp. n.

Pic, 4; Afrique orientale *Laius*, *Notoxus*, *Formicomus*, *Coryna* sp. n.

Régimbart, 1; Afrique orientale, *Halipilidae*, *Dytiscidae*, *Gyrinidae*, *Hydrophilidae*; 48 spp. n.

Schubert, 1; Deutsch-Ostafrika, *Staphylinidae* 10 spp. n.

Spaeth, 1; ostafrikanischen *Cassiden* 7 spp. n.

Weise, 5; East Africa *Chrysomelidae* and *Coccinellidae*, 24 spp. n.

Grouvelle, 2; Afrique orientale, *Dryopidae*, *Helminthidae*, *Heteroceridae*; 13 spp. n.

Grouvelle, 8; Angola *Nitidulidae* gen. n.

Lesne, 4; Abyssinie et Afrique or. *Bostrychides* et *Chérides*, liste.

Lesne, 15; Abyssinie 4 spp. n.; *Demagogus*, *Helicopriss*, *Onitis*, *Pygoneschema*.

Moser, 2; E. Africa *Paclnoda* sp. n.

Moser, 3; E. Africa *Leucocelis* sp. n.

Casey; S. Africa *Alcocharinae* and *Xantholinini* spp. n.

Distant, 21; S. Africa *Cerambycidae* 6 spp. n. [Jordan] S. Africa *Cerambycidae* 7 spp. n.

Hartmann; Transvaal *Cureulionidae* 19 spp. n.

Marshall, G. A. K.; S. Africa *Scioebius* 22 spp. n.

Obst, 2; Sudwest - Afrika *Julodis* 3 spp. n.

Schwarz, 4; Natal *Beliophorus* sp. n.

(Fairmaire, L., 3; Goliathide de l'Ukani.)

(Fauvel, 14; *Staphylinidae*.)

(Fauvel, 20; *Staphylinides* nouveaux d'Afrique tropicale.)

(Lesne, 20; *Bostrychides* africains nouveaux.)

(Orbigny, 2; *Onthophagides*.)

(Péringuey, L. *Cieindele* nouvelle.)

(Pic, 40; *Malacoderme* nouveau.)

Hymenoptera.

Buysson du, R., 5; East and West Africa, *Masariidae*, *Eumenidae*, *Vespidae*, *Chrysididae*; 10 spp. n.

Du Buysson du, R., 3; *Vespidae* 3 spp. n.

Kohl, F. F., 2; Africa incl. S. Africa, 14 spp. n. *Pompilus*, *Nortonia*, *Labus*, *Trypoxylon*.

Schulz, W. A., 3; Tropical Africa, *Erythropimpla* sp. n., *Aercnus* sp. n., *Allodapa* sp. n.

Szépligeti, 1; *Ichneumonidae* spp. n.

Szépligeti, 2; *Braconidae* numerous spp. n.

Enderlein, 5; Fernando Po, *Evania* sp. n.

Enderlein, 6; Guinea *Cardiochiles* sp. n.

Enderlein, 10; Kamerun, *Neostephanus* sp. n.

Kieffer, 4; Afrique occ., n.g. *Proctotrypidae*.

Mayr; Kamerun, Feigen-Insekten, 7 spp. n.

Schulz, W. A., 4; Fernando Po, *Belonogaster*, *Eumenes*, *Philanthus*, *Cryptochilus*, *Pseudagenia*, *Neotrimorus*, *Atanycolus*, *Platybracon*, *Bucheckerius* gen. n. Ichm., *Henicospilus*, *Cymato-neura*, *Stephanus* spp. n.

Magretti; Eritrea *Mutillidae*, 17 spp. n.

Mocsáry, 1; Africa centr. &c., *Synagris* 2 spp. n.

Brauns; S. Africa, *Fossoria* 10 spp. n.

Brues, 3; Cape Colony, *Proctotrypidae* and *Chalcididae* 10 spp. n.

Cameron, 2; Cape Colony, *Asphragis* sp. n.

Cameron, 4; Natal, *Gabunia* sp. n.

Cameron, 19; Cape Colony, *Dryinus* sp. n.

Cameron, 26; Cape Colony, *Apidae* 3 spp. n., *Ceramius* sp. n., *Oxybelus* sp. n., *Xenolytus* sp. n., *Cariniscutis* sp. n., *Evania* sp. n.

Cameron, 27; Cape Colony, *Bracon* and *Apanteles* sp. n.

Cameron, 28; Cape Colony, *Hymenobosmina* sp. n.

Cameron, 29; S. Africa, *Hym. parasitica* 187 spp. n.

Cameron, 30; S. Africa, *Chrysididae* 6 spp. n.

Enderlein, 9; Capland, *Melecta* sp. n.

(André, 2; *Mutilles* du Transvaal.)

(Buysson Du, R., 3; Espèces nouvelles, fg.)

(Vachal, 5; Hyménoptères du Congo français.)

Lepidoptera.

Bethune-Baker, 3; *Lycanidae*, *Hesperidae*, *Taragama* and *Catephia* spp. n.

Hampson, 1; *Thyrididae* and *Pyralidae* spp. n.

Hampson, 2; *Hydrocampinae* 15 spp. n.

Hampson, 3; *Cueullianae* 9 spp. n.

Lathy, 4; *Rhopalocera* 10 spp. n.

Rothschild and Jordan, 1; *Sphingidae* 3 spp. n.

Swinhoe, 2; *Bombyces*, II spp. n., *Aeollesis* sp. n.

Schultze; Kamerun, *Pseudaeraea* sp. n.

Rothschild and Jordan, 2; Ashanti, *Sphingidae* 2 spp. n.

Meyrick, 2; Sierra Leone, *Imma* sp. n.

Aurivillius, 9; Congo, *Bombyces* s.l., 6 spp. n.

Niepelt, 1; Kongo, *Euphaedra* sp. n.

Niepelt, 2; Kongo, *Xanthospilopteryx* sp. n.

Rebel, 9; Kongo, *Pseudaphelia* sp. n.

Rothschild, W., 1; Angola *Bunaea* sp. n.

Rebel, 3; Victoria Nyanza, *Nudaurelia* and *Bunaea* sp. n.

Sharpe; Uganda, *Aeraeidae* 2 spp. n.

Bethune-Baker, 2; E. Africa, *Lyeaenidae* and *Hesperidae*, 10 spp. n.

Heyn; Ost-Afrika, *Deilemera* sp. n.

Rebel, 11; Deutsch-Ostafrika *Semiotila* sp. n.

Rebel, 13; Zanzibar, *Neocoenyra* sp. n.

Wichgraf; Hinterland der Delagoa-Bay, *Gastroplakaeis*, *Nudaurelia* sp. n.

Distant, 21; Transvaal, *Hippotion osiris*, and gen. n. *Striphnopterygidae*.

Jordan, 4; Natal, *Aegocera* sp. n.

Lathy, 3; Rhodesia, *Charaxes* sp. n.

Trimen; S. Africa, *Rhopalocera* 2 spp. n.

Trichoptera.

Ulmer, 3; W. Africa and Orange Free State, 3 spp. n.

Neuroptera.

Klapálek, 2; Guinea española, *Dicolpus* sp. n.

Weele, 6; Kamerun, *Planipennia* 4 spp. n.

Enderlein, 19; E. Africa, *Coniopterygidae* 6 spp. n.

Diptera.

Hermann; S. Africa and E. Africa, *Asilidae* 3 spp. n.

Neveu-Lemaire, 1; Afrique tropicale, *Culex* 4 spp. n., *Aèdeomyia* sp. n.; list of African *Culicidae*.

Theobald, 9; Sudan, *Culicidae* sp. n., gen. n.

Grünberg, 2; Tropical Africa, *Tabanidae* 4 spp. n., genn. n.

Surcouf, 2, 3, 4; *Tabanus* 7 spp. n.

Ricardo, 1; *Haematopota* of Africa, 10 spp. n.

Grünberg, 1; Ostafrika, Westafrika, blutsaugende *Museides* 7 spp. n.

Grünberg, 4; *Oestridae* 2 spp. n.

Stein, 1; *Anthomyiidae*, with many spp. n.

Dudgeon, 2; W. Africa, *Tabanidae* and *Muscidae*, short list.

Roubaud, 6; Sénégal, *Lyperosia* 2 spp. n.

Meijere, de, 1; Cameroons, *Milichia* and *Oscinis* 3 spp. n.

Roubaud, 10; Angola, *Simulium* sp. n.

Austen, 5; Sudan, *Tabanidae* 2 spp. n.

Neveu-Lemaire, 2; Soudan, *Phlebotomus* sp. n.

Theobald, 8; Sudan, *Hippoboscidae* sp. n. (?).

Theobald, 9; Sudan, *Culicidae* 4 spp. n., *Lipoptera* sp. n.

Bezzi, 5; Eritrea, *Orthorrhapha* 28 spp. n.

Adams; Rhodesia, 78 spp. n., *Tabanidae*, *Asilidae*, *Systropus*, *Lonchoptera*, *Syrphidae*, *Pipunculus*, *Sepedon*, *Ortaliidae*, *Trypetidae*, *Sapromyzidae*, *Sepsidae*, *Ephydriidae*, *Drosophilidae*, *Oscinidae*, *Agromyzidae*, *Borboridae*, *Muscidae*.

(**Theobald, 8;** Mosquitoes of Egypt, the Sudan and Abyssinia.)

Aphaniptera.

Rothschild, N. C., 5; Khartoum, *Pulex* sp. n.

Jordan and Rothschild, 1; *Echidnophaga* 3 spp. n.

Hemiptera.

Bergroth, 4; E. Africa, 5 spp. n. *Pentatomidae*, *Pyrrhocoridae*, *Reduviidae*.

Bergroth, 7; Zanzibar, *Halorelia* sp. n.

Breddin, 3; Togo, *Catadipson* sp. n.

Distant, 3; Transvaal, *Taipinga* 2 spp. n.

Distant, 12; Brit. E. Africa, *Eddara* sp. n.

Distant, 20; Sierra Leone, *Oxycaenus* 2 spp. n.

Distant, 13; *Fulgoridae* 4 spp. n.

Distant, 14; S. Africa, *Hermolaus*, *Antestia* gen. n., *Pephricus*, gen. n. *Heterogastrinae*, *Piesma*, *Cerilocus* spp. n.

Distant, 17; S. Africa, *Narina* 2 spp. n., *Fulgoridae* 3 spp. n.

Distant, 15; Abyssinia, *Dietyophara* sp. n.

Distant, 21; Transvaal, *Cicadidae* gen. n.

Bowhill; S. Africa, *Acanthia pipistrelli*.

Horváth, 4; Africa orient., *Plinthisus* sp. n.

Reuter, 3; Kapland, *Capsidae* gen. n.

Kirkaldy, 9; Gold Coast, *Scaphoideus*, *Oliarus*, sp. n.

Kuhlgatz, 2; Westafrika, *Capsidae* gen. n.

Melichar, 1; *Issides* Monographie, spp. n.

Reuter, 2; Congo, *Helopeltis* sp. n.

Reuter, 7; East Africa, *Capsidae* 16 spp. n.

Reuter, 11; Sierra Leone and S. Africa, *Capsidae* 7 spp. n.

Schmidt, Edmund, 1; *Fulgoridae* 12 spp. n.

Schouteden 1; Eritrea, *Reduviidae* 2 spp. n.

Schouteden, 2; Abyssinie et pays des Somalis, *Reduviidae* 9 spp. n.

Schouteden, 7; W. Africa, *Toxoptera* sp. n.

Aphidae.

Schouteden, 8; *Aphis* sp. n.

Psocidae.

Enderlein, 13; Deutsch - Ostafrika, *Amphipsocus* sp. n.

Meunier, 1; *Psocidae*, Copal Zanzibar.

Mallophaga.

Kellogg, 7; Transvaal, *Laemobothrium gypsis* sp. n.

Odonata.

Förster, 2; 12 spp. n.

Förster, 3; *Libellen*, Galla u. die Somaliländer, Forschungs Südschoa, 14 spp. n.

Martin, 1; Brit. E. Africa, 6 spp. n.

Orthoptera.

Borelli, 5; Ruwenzori *Forficulidae* 4 spp. n.

Shelford, R., 1; W. Africa, *Blattidae* 3 spp. n.

Brunner and Redtenbacher; *Phasmidae*, general work, spp. n.

Bolivar, 1; Africa generally, *Phasgonuridae* spp. n.

Werner, 1; Tropical Africa, *Mantidae* 10 spp. n.

Burr, 2; Guinea española, *Dermaptera* 2 spp. n.

Griffini, 3; Africa occ., *Locustidae*, list, 4 spp. n.

Thysanura.

Escherich, 2; Stanleyville, *Atelura* sp. n.

Madagascar and Mascarene Islands.

Coleoptera.

Bernhauer, 1; *Philonthus* and *Tachinoderus* sp. n.

Chobaut, 1; *Blattivorus* sp. n.

Fairmaire, 2; *Hétéromères* 23 spp. n.

Fleutiaux, 1; *Adelocera* sp. n., *Dulius* gen. n.

Grouvelle, 1; Madagascar, La Réunion, *Nitidulidae* 29 spp. n., *Colydiidae*

22 spp. n., *Cucujidae* 8 spp. n., *Monotomidae* 2 spp. n., *Cryptophagidae* 18 spp. n., *Mycetophagidae* 3 spp. n., *Potamophilidae*, *Dryopidae* and *Helminthidae* 16 spp. n., *Heteroceridae* 6 spp. n.

Lesne, 6; *Sinoxylinae*, revision, 2 spp. n.

Lesne, 7; *Pachyelater* spp. n.

Lewis, 1; *Notolister* sp. n.

Lewis, 2; *Histeridae* 5 spp. n.

Meyer-Darcis; *Polybothris* 2 spp. n.

Pic, 17; Ile Bourbon, *Donaldia* sp. n.

Pic, 33; *Cantharis* sp. n.

Schenkling, 1; *Cleridae* spp. n.

Weise, 4; *Coccinelliden* 4 spp. n.

(**Béguin-Billecocq, 1**; Nouvelle espèce de *Piezotrachelus*.)

(**Béguin-Billecocq, 2**; Espèces nouvelles d'*Apion*.)

(**Béguin-Billecocq, 5**; *Apionidae* de la région malgache, (134-159).)

(**Fairmaire, 7**; *Cicindélides* et *Cara-bides* nouveaux . . .)

(**Fauvel, 16**; *Staphylinides* nouveaux . . .)

(**Fleutiaux, 6**; *Sternotomis* de Mohéli.)

(**Fleutiaux, 5**; *Cardiophorus* nouveau.)

(**Grouvelle, 6**; *Laemophiloeus* nouveau . . .)

(**Pic, 4**; Coléoptères nouveaux . . .)

Hymenoptera.

Buysson, R. du, 5; *Parnopes* sp. n.

Enderlein, 8; *Braunsia* sp. n.

Kohl, F. F., 2; Madagascar, *Phanerotoma* sp. n., Mauritius, *Sceliphron* sp. n.

Krieger; *Theronia* sp. n.

Szépligeti, 1; Nossi-Bé, *Henicospilus* sp. n.

Szépligeti, 2; Nossi-Bé, *Iphiaulax* sp. n.

Lepidoptera.

Bethune-Baker, 2; *Zizera* sp. n.

Hampson, 3; *Empusa* sp. n.

Joannis, 1; Ile Maurice et Iles Comores, 12 spp. n., *Syntomidae*, *Noctuidae*, *Geometridae*, *Pyrallidae*.

Neuroptera.

Kolbe, 2; *Palpares* 3 spp. n.

Diptera.

Roubaud, 9; *Simulium* 2 spp. n.

Stein, 1; *Anthomyiidae* 4 spp. n. and Bourbon *Lispa* sp. n.

Meunier, 7; *Toxorhina* du copal récent.

Ventrillon, 1; *Culex* 2 spp. n.

Ventrillon, 2; *Stegomyia* sp. n.

Ventrillon, 3; *Cellia* sp. n.

Ventrillon, 4; *Culicidae* 2 spp. n., *Pseudoheptaphlebotomyia* and *Culex*.

(**Ventrillon, 5**; *Culicides* nouveaux.)

Hemiptera.

Bergroth, 4; Comoro islds., *Sepina* sp. n., *Callibaphus* sp. n.

Bergroth, 3; Madag. and Comoro Ins., *Pentatomidae* and *Reduviidae* 12 spp. n.

Bergroth, 9; *Coreidae* gen. n., *Agraphopus* sp. n., *Lygaeidae* gen. n.

Bergroth, 10; *Plocariinae* gen. n.

Reuter, 11; Bourbon, *Sthenarus* sp. n.

Distant, 13; *Fulgorinae* gen. n.

Melichar, 1; *Issides* gen. n., spp. n.

Schmidt, Edmund, 1; *Pochazoides*, *Phyma*, *Ormenis*, sp. n.

(**Schouteden, 12**; Neue *Pentatomiden* aus Madagaskar.)

Odonata.

Förster, 2; Réunion und Madagaskar *Pseudagrion* 2 spp. n.

Orthoptera.

Borelli, 4; *Chaetospania* sp. n.

Shelford, R., 1; *Theganopteryx* sp. n.

Brunner and Redtenbacher; *Phasmidae*, general work, spp. n.

Thysanura and Collembola.

Silvestri, 2; *Maehiloides* sp. n.

Bosner, 4; Seychelles, *Lepidocyrtus* sp. n.

Asia, Tropical and East.

Insecta.

Matsumura, 5; Tropical insects in Japan; distribution of. (Japanese.)

Coleoptera.

Buchara *vide etiam* Palaearctic.

Schenkling, 1; *Cleridae* spp. n.

Tschitschérine; *Harpalini* de l'Asie orientale, *Amaroschesis*, *Asmerinus*, *Harpalus* spp. n.

Reitter, 1; Chinese Turkestan, *Hydrous* sp. n., Source of the Indus, *Hydrous* and *Rhytinota* spp. n., *Tentyrini* gen. n.

Lewis, 3; India, China, Japan, *Histeridae* 4 spp. n.

Pic, 17; Japon, *Sandalus* and *Trichodesma*; Yunnan, *Phytoecia*; Pondichéry *Malegia* sp. n.

Pic, 22; Yunnan, *Attalus*; "Indes," *Malthodes*; Saigon, *Formicomus*.

Pic, 25; Malabar and Chine, *Pyrochroides* 2 spp. n.

Lesne, 5; India, Burma, Tenasserim, Ceylon, *Bostrychidae* 4 spp. n.

Pic, 33; Indes, Tonkin, Chine, *Telephorides* 18 spp. n.

Lesne, 6; Birmanie, Inde, Tonkin, *Sinoxylinae*, revision, 6 spp. n.

Lewis, 1; India, Burma, Yunnan, *Histeridae*, 3 spp. n., Japan, *Platysoma sibiricum*.

Gestro, 7; India, Ceylon, Burma, Malacca Liou-Kiou ins., *Ichthyurus* 15 spp. n.

Gahan, 1; India, Ceylon and Burma, *Cerambycidae*, descriptive work.

Nonfried; Nepal, Siam, Manipur, Nord-West-Chine, *Lepidiota*, *Schönherria*, *Rhomborrhina*, *Trichius*.

Pic, 16; Pondichéry, *Anthicus* sp. n., Birmanie, *Formicomus* sp. n.

Jordan, 2; India, *Anthrribidae* 4 spp. n.

Lewis, 2; India, *Apobletes* sp. n.

Maindron, 3; India, *Lasiocera* 2 spp. n.

Moser, 2; India, *Taeniodera* sp. n.

Pic, 18; Inde, *Xamerpus* sp. n.

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Pic, 26; Iles Andaman *Macrosiagon*, Indes *Idgia*.

Stebbing, 2; Indian *Lamellicornia*, introductory.

Weise, 7; Ostindien, Zwei neue *Hispiden*.

Arrow, 3; Assam, *Chilomazus* sp. n.

Maindron, 1; Assam, *Pheropsophus* sp. n.

Pic, 8; Kashmir, *Anthicus* 2 spp. n.

Reitter, 20; Kaschmir, *Laena* 3 spp. n.

Schilsky, in **Küster** and **Kraatz, 2**; Kashmir, *Eulobonya*, *Anaspis*, *Rhynchites* sp. n.

Schubert, 2; Kaschmir, *Staphylinidae* 8 spp. n.

Zang, 3; Kaschmir, *Doreus* 2 spp. n.

Maindron; Yunnan, *Nebria* sp. n. *Carabus* sp. n.

Moser, 3; Yunnan, *Hybomachus* sp. n.

Pic, 13; Yunnan, *Idgia* and *Cantharis* sp. n.

Grouvelle, 4; Burma, *Epuraea* 2 spp. n.

Jacoby, 5; Malay penins., list of *Chrysomelidae*.

Jacoby, 6; Malay States, list of *Chrysomelidae*.

Gahan, 2; Selangor and Perak, *Longicornia* 19 spp. n.

Möllenkamp, 2; Malakka, *Allotopus* sp. n.

Möllenkamp, 3; Perak, *Cyclommatus* sp. n.

Ritsema, 1; Chine, *Helota* sp. n.

Pic, 7; Cochinchine, *Caryolorus* sp. n.

Fleutiaux, 2; Tonkin, *Adelocera* 2 spp. n.

Gestro, 8; Tonkin, *Ichthyurus* 2 spp. n.

Pic, 2; Tonkin, *Silis* sp. n.

Gestro, 4; India, Malacca, Tonkin, *Hispidae* 5 spp. n.

Grouvelle, 3; Cambodia and Yunnan, *Prometopia*, *Micromes* spp. n.

Portevin, 1; Japan, *Silphidae* 8 spp. n., Sikkim *Silphidae* 6 spp. n.

Schilsky, in **Küster** and **Kraatz, 1**; Japan and N. China, *Cureulionidae*, *Bruchidae*.

- Sicard, 1; Japon central, *Coccinellides*.
(Aurivillius, 2; *ed*)
(Allard, P.; *ed*)
(Boileau, 2; *Doreus* nouveau, *cf.*)
(Boucomont, 3; les *Enoplotrupes* et *Geotrupes* d'Asie. . . .)
(Bourgeois, 14; Malacodermes et *Lymexylonides*, *cf.*)
(Bourgeois, 15; *Daseillides* et *Malacodermes*, *cf.*)
(Bourgeois, 16; *ed*)
(Brenske, E.; Coléoptères, *ed*)
(Brongniart, Ch.; *Cerambycides*, *ed*)
(Fairmaire, 4; *Lagriides*, Bornéo.)
(Fairmaire, 12; Coléoptères, *ed*)
(Fairmaire, 13; *Longicornes* de Tonkin.)
(Fauvel, A., 6; *Staphylinides* de l'Indoustan et de la Birmanie.)
(Flautiaux, 7; *Elateridae*, *cf*)
(Flautiaux, 8; Coléoptères, *ed*)
(Grouvelle, 7; Coléoptères, *ed*)
(Lefèvre, Edouard; Coléoptères, *ed* (146-157).)
(Lesne, 21; Coléoptères, *ed*)
(Maindron, 10; *Cicindelidae* et *Carabidae* de l'Inde.)
(Pic, 43; Coléoptères asiatiques nouveaux, *e.*)
(Régimbart, 7; Coléoptères, *ed*)
(Tertrin; Coléoptères, *ed*)

Hymenoptera.

- Cameron, 25; Kashmir, *Gasterup'ion*, *Paniseus*, *Chalcis*, *Dosytheus*, *Rhoga-gaster*, spp. n.
Szépligeti, 1; India, Ceylon, Singapore, Malacca, *Ichneumonidae* spp. n.
Schulz, W. A., 3; Himalaya *Erythro-pimpla* sp. n.
Cameron, 23; *Hym. parasitica* and *Tenthredinidae* 33 spp. n.
Cameron, 24; Baluchistan, *Ichneumonidae* 23 spp. n., *Epyris* sp. n.
Forel, 3; Himalaya, Catalogue des fourmis, 1 sp. n.
Cameron, 20; Himalaya, *Ichneumonidae*, *Lareiga* sp. n.

- Cameron, 12; Himalaya, *Braconidae* 3 spp. n.
Cameron, 13; India, *Ichneumonidae* 8 spp. n.
Konow, 2; Sikkim and Khasia hills, *Tenthredinidae* 4 spp. n.
Kieffer, 2; India, *Dryinus* and *Gonatonus* sp. n.
Enderlein, 6; Ceylon, *Cardiophiles* sp. n.
Cameron, 33; Ceylon, *Opius* sp. n.
Krieger; Ceylon, *Theronia* sp. n.
Szépligeti, 2; Ceylon, *Rhadinobracon*, *Bracon*, 2 spp. n.
Enderlein, 5; Malacca *Evania* 2 spp. n.
Enderlein, 10; Malacca, *Diastephanus* sp. n.
Bingham, 2; Malay States, list.
Howard, 3; China, *Encyrtidae* gen. n.
Mayr; Tongking, *Feigen-Insekten* 3 spp. n.
Konow, 5; Tonkin and China, *Tenthredinidae* 2 spp. n.
Perkins, 9; China, *Tomocera* sp. n.
Kohl, F. F., 2; Japan, China and Ceylon, *Sceliphron* 2 spp. n.
Wheeler, 10; Japan, ants of, 8 spp. n.
Ashmead, 2; Japan *Ichneumonidae* 42 spp. n. *Braconidae* 32 spp. n., China *Pristomerus* sp. n.
Cameron, 7; Japan, *Anomalon* sp. n., *Campoplex* sp. n.
(Saussure, H. de, André, Em. et Du Buysson, R. *Hyménoptères*, *ed*.)

Lepidoptera.

- Moore, 1; Baluchistan, *Parnassius* sp. n.
Afghanistan, *Holcocerus* sp. n. vide Bang-Haas in Pal.
Oberthür, 5; Chinese Tibet, *Neptis* 9 spp. n.
Oberthür, 6; Mou-Pin, *Apatura* sp. n.
Elves, Hampson and Durrant; Sikkim and Tibet, spp. n. of *Colias*, *Callerebia*, *Lycaena*, *Anartomorpha*, *Chloridea*, *Isochlora*, *Metalepsis*, *Episilia*, *Araeogyja*, *Camadana*, *Crambus*, *Phlyetaenodes*, *Evergestis*, *Trochilium*, *Plutella*, *Enarmonia*.
Fruhstorfer, 16; *Euthalia* sp. n.

Meyrick, 2; India, Ceylon, Singapore, Andaman islands, China, *Imma* 17 spp. n., Himalaya gen. n. near *Imma*.

Meyrick, 3; Ceylon and Burma, *Micro-Lepidoptera*, incl. *Orneodidae*, *Pterophoridae*, 76 sp. n.

Swinhoe, 3; India, *Eupterote*, *Borsippa* and *Pyrausta* sp. n.; Perak *Pompelion* and *Vitessa* sp. n.

Swinhoe, 2; Hong Kong *Pandana* sp. n., Singapore, *Euproctis* and *Lymantria* spp. n., Ceylon, *Lymantria* sp. n., Khasia hills, *Egnasia* sp. n.

Hampson, 1; India, Kashmir, Ceylon, Burma, Singapore, China, *Pyralidae* spp. n.; Sikhim, *Thyrididae* sp. n.

Hampson, 2; India, Andaman islds., Ceylon, Malay penins., *Hydrocampinae* 6 spp. n.

Hampson, 3; India, incl. Tibet, Japan, *Cucullianae* 8 spp. n.

Hampson, 4; India, *Noctuidae* 15 spp. n.

Moore, 2; India, *Pierinae* 10 spp. n.

Young, 1, 3; India, plains of, common butterflies.

Swinhoe, 1; India, *Oxaenanus*, *Epilema*, *Mimomiza*, n. sp., *Pyralidae* spp. n.

Fruhstorfer, 11; Malay penins., *Euthalia* sp. n.

Heylaerts, 2; Tonkin, *Clania* sp. n.

Oberthür, Ch., 3; Annam, *Papilio* sp. n.

Fruhstorfer, 18; Tonkin, Annam and Siam, *Nymphalidae* subsp. n.

Kershaw; China, *Rhopalocera*, illustrated work.

Miyake; Formosa, 6 spp. *Papilionidae* 26 spp., *Nymphalidae* 2 spp., *Pieridae* 6 spp., *Lyceenidae* 5 spp., *Hesperiidae* 4 spp. (Japanese.)

Matsumura, 4; Japan and Formosa, *Euploea*, *Satyrus*, *Pararge*, *Ypthima*, *Aphnaeus*, *Lycaena*, *Parnara* spp. n.

Takano; Asama Mountain, *Rhopalocera*. (Japanese.)

Aigner-Abafi, 6; Lepidopterenfauna Japans. (Ungarisch.)

(**Janet, 4**; *Lépidoptères de l'Indo-Chine*)

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(**Oberthür, 10**; Nouvelle espèce de *Sphingides*, *eb.*)

(**Oberthür, 9**; Nouvelle espèce de *Polycaena*, *eb.*)

(**Poujade, G. A.**; *Lépidoptères d'Indo-Chine.*)

Trichoptera.

Ulmer, 3; India, N. China and Japan, *Trichoptera* sp. n.; also Verzeichniss der indischen *Trichopt.*

Neuroptera.

Enderlein, 19; Malay States, n. sp. *Coniopterygidae*.

(**Martin, 2**; *Neuropteres*, *ed.*)

Diptera.

Gobi, Tibet, etc., *Timia* spp. n. vide W. Asia.

Becker, Th., 4; *Timia*, Wied.

Kieffer and Cecconi; on *Mangifera indica* at Palermo *Cecidomyiidae* gen. n.

Meijere, 2; Ceylon, Singapore, Bombay, *Sepsis* spp. n.; Vorder-Indien, gen. n. *Drosophilidae*.

Ricardo, 1; India, Ceylon, Burma, *Haematopota* 6 spp. n.

Ricardo, 2; Darjiling, *Tabanidae* gen. n.

Kertész, 1; Bombay, *Eraza* sp. n.

Stein, 1; Ceylon, *Lispa* sp. n.

Roubaud, 1; Nippon moyen, *Simulium* 2 spp.

(**Bigot, J. M. J.**; *Dip'tères d'Indo-Chine.*)

Hemiptera-Heteroptera.

Bergroth, 1; Ceylon *Henicoccephalus* sp. n.

Distant, 9; British India, incl. Burma and Ceylon, *Anthocoridae* to *Corixidae*, *Cicadidae*, *Fulgoridae*, many spp. n.

Bergroth, 5; Japan, *Lygaeidae* gen. n.

Breddin, 1; Assam, *Colpura* sp. n.

Breddin, 2; Ceylon and Centr. China, *Dieuches* 3 spp. n.

Distant, 18; Ceylon, *Reduviidae* 12 spp. n.

Distant, 19; Ceylon, *Pentatomidae* and *Lygaeidae* 12 spp. n.; Bombay, gen. n. *Tessaratominae*.

Horváth, 1; Bengal, *Stephanitis* sp. n.

Horváth, 2; Cochinchine, *Tingitidae* gen. n.

Carpenter, 1; Ceylon, *Halobates* sp. n.

Matsumura, 2; Japan, *Hydrocorisae* 13 spp. n.

(Noualhier, M. et Martin, J.; *Hémiptères*, ed.)

Homoptera.

Distant, 2; N.W. India, *Cicadidae* 2 spp. n.

Distant, 7; China, *Cicadidae* gen. n.

Distant, 11; Cochin China, *Gudaba* sp. n.

Distant, 12; Perak, *Fulgoridae* gen. n.

Distant, 13; Siam, Cambodia, *Fulgoridae* 2 spp. n.

Matsumura, 3; Riukiu, Okinawa, die Hemipteren-Fauna von.

Distant, 15; India and Japan, *Dictyopharinae* 4 spp. n.

Kieffer, 11; Vorder-Indien, *Psyllidae* gen. n.

Melichar, 1; *Issides* Monographie spp. n.

Schmidt, Edmund, 1; Tonkin, *Euphrasia* 3 spp. n.; Malacca, *Seamandra* sp. n.

Aphidae.

Pergande; Japan, *Aphidae* 3 spp. n.

Coccidae.

Leonardi, 2; Ceylon, *Fioriniæ* 6 spp. n.

Anoplura.

Christophers and Newstead; India, *Haematopinus* sp. n.

Psocidae.

Enderlein, 13; Japan, 4 spp. n.

Enderlein, 21; Ceylon, 20 spp. n.; India, 1 sp. n.; Japan, 1 sp. n.

Enderlein, 15; Copeognathen-Fauna Japans, 14 spp. n.

Termitidae.

Desneux, 3; Kashmir.

Odonata.

(Foerster, F.; Libellen von Tonkin.)

Orthoptera.

Brunner and Redtenbach; *Phasmidae*, general work, spp. n.

Burr, 6; India, *Anisolabis* sp. n.

Paiva; India, *Periplaneta* sp. n.

Shelford, R., 1; Bhutan, India, Ceylon, Malay Penins., *Blattidae* 9 spp. n.

Green, 2; Ceylon, *Phyllinae*.

Dohrn, 3; Tonkin, *Hemielimaca* sp. n.

Krausse-Heldrungen; Tonkin, *Gryllacris* sp. n.

Rehn, 6; Tonkin, *Phryganistria*, *Chondrodera*, *Anabropsis*, *Diestrammena* spp. n.

Shiraki, 1; Japan and Formosa, *Blattidae* 7 spp. n.

Matsumura and Shiraki; Japan, *Forficulidae* 3 spp. n.

Shiraki, 2; Japan, *Forficulidae* 5 spp. n.

Thysanura and Collembola.

Escherich, 2; India, genn. n. *Termitophilous*.

Silvestri, 2; Tonkin and China, *Machilidae* 3 spp. n.

Börner, 4; Japan, *Collembola* 2 spp. n.

Asiatic Archipelago.

Insecta.

Fruhstorfer, 17; Bawean, Reisebericht auf der Insel.

Banks, 2; Philippines, *Thosca* sp. n., *Coccidae* 6 spp. n.

Coleoptera.

Grouvelle, 4; *Nitidulidae* 22 spp. n.

Schenkling, 1; *Cleridae* spp. n.

Gestro, 4; *Hispidae* 7 spp. n.

Fleutiaux, 2; Java, *Adelocera* sp. n.

Gestro, 7; Java, *Ichthyurus* sp. n.

Lesne, 5; Java, *Xylopsocus* sp. n.

Pic, 16; Java, *Laius* sp. n.

Sternberg, 2; Java, *Xylotrupes* sp. n.

Pic, 25; Java and Sumatra, *Pyrochroa* sp. n.

Pic, 27; Java et Sumatra, *Idgia* 5 spp. n.

Pic, 26 ; Java, *Balanophorus* ; Sumatra and Amboine, *Carphurus* ; Manille, *Anthicus* ; spp. n.

Bourgeois, 4 ; Borneo, *Lyceides* 7 spp. n.

Lesne, 6 ; Borneo, *Sinoxylon* sp. n.

Moser, 1 ; Sarawak, *Dasyrargus* 2 spp. n.

Arrow, 1 ; Borneo and Sumatra, *Melolonthidae* 3 spp. n.

Grouvelle, 3 ; Sumatra and Nias, New Guinea, Key Island ; *Leptoglyphus*, *Lacmophloeus*, *Europs*, *Mimemodes*, *Bactridium* ; 7 spp. n.

Moser, 3 ; Borneo, Sumatra, New Guinea, *Cetoniidae* 5 spp. n.

Pic, 33 ; Borneo, Sumatra, Java, Célèbes, *Telephorides* 7 spp. n.

Möllenkamp, 1 ; Sumatra *Odontolabis* sp. n.

Maindron, 4 ; Sumatra *Cutaseopus* sp. n.

Nonfried ; Sumatra, *Leucopholis* and *Anomala* sp. n.

Pic, 2 ; Sumatra, *Discodon* sp. n.

Ritsema, 4 ; Sumatra, *Coclosterna* sp. n.

Ritsema, 2 ; West Sumatra, *Helota* sp. n.

Ritsema, 3 ; Sumatra, *Helota* sp. n.

Grouvelle, 8 ; Damma ins. *Nitidulidae* gen. n.

Moser, 2 ; Philippines, Sumatra, New Guinea, *Cetoniidae* 7 spp. n.

Arrow, 3 ; New Guinea, *Leptaulacides* sp. n.

Arrow, 4 ; Nova Guinea, *Lucanidae* and *Scarabaeidae*, brief list.

Boileau, 1 ; New Guinea, *Dorcus* sp. n.

Gestro, 1 ; New Guinea, *Hispidonta* sp. n.

Flentiaux, 3 ; Nova Guinea, *Elate-ridae*, brief list.

Horn, 10 ; Nova Guinea, *Cieindelidae*, short list.

Jacoby, 1 ; New Guinea, *Chrysomelidae* 4 spp. n.

Jacoby, 2 ; New Guinea, *Aesernia* sp. n.

Jordan, 3 ; New Guinea, *Xenocerus* sp. n.

Kerremans, 1 ; New Guinea, *Agrilus* sp. n.

Lesne, 13 ; Nova Guinea, *Bostrychidae*, brief list.

Lewis, 1 ; Lombok, New Guinea, *Histeridae*, 2 spp. n.

Lewis, 2 ; Mentawai Isld., N. Guinea, *Histeridae* 2 spp. n.

Maindron, 2 ; N. Guinea, *Colpodes* sp. n.

Régimbart, 3 ; Nova Guinea, *Dytiscidae*, *Gyrinidae* et *Hydrophilidae*, *Dineutes* sp. n.

Schenkling, 2 ; Nova Guinea, *Langu-riidae*, *Endomychidae*, brief list.

Schönfeldt, 1 ; Nova Guinea, *Cetonini* und *Coprini*, *Onthophagus* sp. n.

Schönfeldt, 2 ; Nova Guinea, *Brenthidae*, *Zemioses* sp. n.

Spaeth, 2 ; Nova Guinea, *Cassididae* brief list.

Zang, 4 ; Nova Guinea, *Passalini* 3 spp. n.

(Fauvel, 15 ; Staphylinides de Nouvelle Guinée.)

Hymenoptera.

Buysson, R. du, 2 ; Java, *Chrysis* sp. n.

Kieffer, 5 ; Java, *Cynipidae* 3 spp. n.

Karawaiew ; Java, *Polyphacis* sp. n.

Mayr ; Java, Timor, Feigen-Insekten 9 spp. n.

Enderlein, 5 ; Java and Sumatra, *Cardiochiles* 3 spp. n.

Konow, 5 ; Java and Sumatra, *Tenthredinidae* 3 spp. n.

Krieger ; Java, Sumatra, Celebes, Ronisld. *Theronia* 5 spp. n.

Kohl, F. F., 2 ; Java, *Salix* and *Trypoxylon*, Celebes *Platybracon* spp. n.

Cockerell, 4 ; Sumatra, *Megachile* sp. n.

Enderlein, 7 ; Sumatra, *Coelioxys* sp. n.

Cameron, 11 ; Sumatra, *Cryptinae* gen. n.

Enderlein, 5 ; Sumatra, *Evania* 3 spp. n.

Szépligeti, 2; Sumatra, *Braconidae* *Merinotus* gen. n.

Enderlein, 10; Sumatra, *Stephaniidae* 3 spp. n.

Enderlein, 8; Sumatra and Sumba, *Braunsia* 4 spp. n.

Kieffer, 4; Sumatra and Mentawai and N. Guinea, *Prototrypidae* 15 spp. n.

Cameron, 15; Borneo, 18 spp. n.

Cameron, 21; Borneo, *Braconidae* gen. n. near *Odesia*.

Szépligeti, 1; Borneo, Celebes, New Guinea, *Telmeumonidae* spp. n.

Schulz, W. A., 3; Celebes *Erythropimpha* sp. n., *Ampulicinae* gen. n.

Brown, 1; Philippines, Catalogue with *Tachypompilus*, *Chrysis*, *Mutilla*, spp. n.

Cameron, 31; New Guinea, *Thynnidae*, *Scoliidae*, *Pompilidae*, *Sphegidae*, *Vespidae*, 9 spp. n.

Cameron, 32; Nova Guinea, *Hymenoptera aculeata*, *Chrysid*, *parasitica*, *Oryssus* 29 spp. n.

Lepidoptera.

Hampson, 1; Various islands, incl. Christmas Island, *Thyrididae* and *Pyralidae* spp. n.

Hampson, 2; Various islands, *Hydrocampa* 23 spp. n.

Meyrick, 2; *Imma* 24 spp. n.

Fruhstorfer, 18; *Nymphalidae* varr. n.

Piepers and Snellen; Java, *Noctuidae*, short list.

Huwe; Sumatra, Batjan, Dammer Ins., *Sphingidae* 3 spp. n.

Swinhoe, 2; Java, Sumatra and Borneo, *Bombyces* 6 spp. n., *Noctuidae* 6 spp. n.; Java, *Epiplema* sp. n.; Sumatra *Ptochopyle* sp. n.; Gilolo, *Eschata* sp. n.

Swinhoe, 3; Sumatra and Nias isld., *Pendria Deilemera*, *Asota*, *Dasychira*, *Cosmophila*, *Syma*, *Nodaria*, *Ceratoclasia* and *Loxoneptera* sp. n.; Java, *Dasychira* sp. n.; Borneo, *Borsippa* sp. n.; New Guinea *Viteessa* 2 spp. n.

Fruhstorfer, 8; Batu-Inse'n Sumatra, *Rhopaloceren* 3 spp. n.

Dohrn, 1; Sumatra and Borneo, *Chalcosiidae*, new forms, *Heteropan* sp. n.

Shelford, R., 3; Borneo, annotated catalogue, *Nymphalinae* and *Lemoniidae*; *Athyma* sp. n.

Swinhoe, 1; Borneo, *Sarosecelis* sp. n. and *Isocentris* sp. n.; Sumatra, *Agathodes* sp. n. and *Pachyzancla* sp. n.

Weymer, 2; Celebes *Antheraea* sp. n.

Heylaerts, 2; Philippines, *Clania* sp. n.

Fruhstorfer, 19; Luzon, *Athyma* sp. n.

Rebel, 9; Obi, *Troides* sp. n.

Bethune-Baker, 1; British New Guinea, *Lycaenidae* 7 spp. n.

Bethune-Baker, 3; New Guinea, *Oxybadistes* sp. n.

Bethune-Baker, 4; British New Guinea, *Noctuidae* 300 spp. n.

Warren, 2; British New Guinea, *Drepamilidae*, *Thyrididae*, *Uraniidae*, *Geometridae*, many spp. n.

Hering; Fergusson island, *Desmia* sp. n.

(**Fruhstorfer, 20**: Neue Taenaris-Formen und Uebersicht der bekannten.)

Trichoptera.

Ulmer, 3; Java, Borneo, Celebes, New Guinea, spp. n.

Neuroptera.

Weele, 2; *Sialiden*, *Chauliodes* sp. n., Sumatra.

Weele, 4; Java and Sumatra, *Chauliodes* 2 spp. n.

Diptera.

Banks, C. S., 3; Philippines, *Culicidae* n. gen.

Banks, C. S., 4; Philippine *Culicidae*, new species.

Ludlow, 3; Philippines, *Toxorhynchites* sp. n.

Ludlow, 5; Philippines, *Anopheles* sp. n.

Kertész, 2; New Guinea, *Heteroneurides* gen. n.

Meijere, 6; Nova Guinea, *Diptera* 17 spp. n.

Meijere, De, 2; New Guinea, *Scopsis*, *Antineura*, *Oscinis* spp. n.; gen. n. *Drosophilidae*; Bali *Philocompus* sp. n.

Hemiptera-Heteroptera.

Bergroth, 8; Java, *Colpura* sp. n., *Veledella* sp. n., *Reduviidae* gen. n.; New Guinea, *Physoderes* sp. n.

Breddin, 2; Java and Sumatra, *Dieuches* 2 spp. n.

Breddin, 1; Java, Sumatra, *Colpura* spp. n., New Guinea *Brachylybas* sp. n.

Bergroth, 10; Borneo, *Plœariinae* 2 spp. n.

Distant, 18; Borneo, *Reduviidae* gen. n.

Distant, 19; Borneo, *Serbana*, *Corizus*, *Aphanus*, *Laxamana* sp. n.; Sangir isld., *Eumenotes* sp. n.

Breddin, 5; Celebes, *Heteropt.* and *Homopt.* 67 spp. n.

Bergroth, 1; Laut, Celebes, New Guinea, *Henicocephalus* 3 spp. n.

Schouteden, 3; New Guinea, *Pentatomidae* 3 spp. n.

Homoptera.

Breddin, 5; Celebes spp. n.

Melichar, 1; *Issides* Monographie spp. n.

Distant, 12; numerous islands, *Fulgoroidea* 6 spp. n.

Schmidt, Edmund, 3; Java and Sumatra, *Miasa* sp. n.

Schmidt, Edmund, 2; Sumatra, *Sialoscarta* 2 spp. n.

Schmidt, Edmund, 1; Sumatra, *Scamandra* sp. n., Waigiu *Myrilla* sp. n.

Schmidt, Edmund, 4; Sumatra and Borneo, *Membraeidae* 2 spp. n.

Distant, 1; Java and Borneo, *Tauna* 2 spp. n.

Distant, 11; Borneo, Sulu Arch., New Guinea, *Cicadidae* 3 spp. n.

Distant, 2; Philippines, *Dokuma* sp. n.

Distant, 15; New Guinea, g. n., near *Dictyophara*.

Psocidae.

Enderlein, 13; Java, *Clematostigma* sp. n.

Enderlein, 17; Sumatra *Myopsocus* sp. n.

Orthoptera.

Brunner and Redtenbacher; *Phasmodae*, general work, spp. n.

Dohrn, 3; Sumatra and Philippines, *Phaneropteridae* 4 spp. n.

Hancock, 2; Borneo, *Tettigidae* gen. n.

Ludlow, 2; Philippines, *Salganea* sp. n.

Shelford, R., 1; Borneo 15 spp. n., Patchian sp. n., *Blattidae*.

Hancock, 1; Borneo, New Guinea, *Tetriginae* spp. n.

Brunner von Wattenwyl and Redtenbacher; Nova Guinea, *Phasmodae* list.

Burr, 5; Nova Guinea, *Dermatoptera* 3 spp. n.

Collembola.

Börner, 4; Java, 10 spp. n.

Australia.

Insecta.

Handlirsch, 3; Fossil Insects.

Walker, J. J., 1; Sydney, sketch of entomology of.

Coleoptera.

Blackburn; *Melolonthides*, partial revision, many spp. n.; *Paphora* spp. n.

Boucomont-Cosme; N. S. Wales, *Bolbocerat* sp. n.

Carter, 1; *Stigmodera* sp. n., *Tenebrionidae* 19 spp. n.

Carter, 2; Mount Kosciuszko, N.S.W., list.

Lea, 1; *Leptops* 26 spp. n.

Lea, 2; Australia and Tasmania, *Staphylinidae* 22 spp. n., *Paussidae* gen. n., *Inopeplus* sp. n., *Lathridius* 4 spp. n., *Pelonium* sp. n., *Ptinidae* gen. n., *Lemodes* sp. n.

Lea, 3; Queensland, *Lomaptera* 2 spp. n.

Lea, 4; Australia and Tasmania, *Curculionidae* 39 spp. n.

Lesne, 3; Australia, *Nylobosca* 2 spp. n.

Lesne, 5; *Bostrychidae* 6 spp. n.

Möllenkamp, 3; *Metopodontus* sp. n.

Schenkling, 1; *Cleridae* spp. n.

Schwarz, 2; *Elateridae* 18 spp. n.

Sloane, 1; *Cicindelidae*, revision, catalogue, 3 spp. n., and Sloane, 2, 2 spp. n.

(Carter, 4; New Australian *Coleoptera*)

(Lea, A. M., 5; Descriptions and notes on Australian *Curculionidae*.)

(Sloane, 3; Descriptions and notes on Australian *Carabidae*.)

(Sloane, 4; Descriptions and notes on Australian *Carabidae*.)

(Sloane, 5; New Australian *Cicindelidae*.)

(Sloane, 6; Australian *Carabidae*, check-list, I.)

Hymenoptera.

Bingham, 1; Queensland, *Braconidae* 4 spp. n., *Chalcididae* 4 spp. n.

Cameron, 3; *Braconidae* 2 spp. n.

Cameron, 5; *Odynerus* sp. n.

Cameron, 9; *Pseudagenia* sp. n.

Cameron, 10; *Ichneumonidae* 5 spp. n.

Cockerell, 1; Australia and Tasmania, *Paracolletes* 6 spp. n.

Cockerell, 5; *Megachile* 15 spp. n.

Cockerell, 7; Australia, *Apidae* 4 spp. n.

Cockerell, 8; Australia and Tasmania, *Halictus* 7 spp. n.

Cockerell, 11; *Apidae*, list of genera.

Froggatt, 1; Catalogue, *Formicidae* of Australasia.

Froggatt, 7; *Megalyra* 9 spp. n.

Kieffer, 5; N. S. Wales, *Cynipidae* 2 spp. n.

Krieger; Australia and Tasmania, *Theronia* 3 spp. n.

Mayr; Neusüdwailes, *Pleistodontes* sp. n.

Perkins, 2; *Chalcididae* 15 spp. n., gen. n.

Perkins, 3; *Proctotrypidae* 6 spp. n.

Szépligeti, 1; *Ichneumonidae* 5 spp. n.

Szépligeti, 2; Victoria, *Rhogas* sp. n.

(André, 5; Un genre nouveau et deux espèces nouvelles de Fourmis . . .)

Lepidoptera.

Localities given by Tower, corrections; Turner, A. J., 3.

Hampson, 11; *Pyralidae* spp. n.

Hampson, 3; Victoria, *Cucullianae* sp. n.

Meyrick, 1; Australia and Tasmania *Tineina* 60 spp. n.

Meyrick, 2; Queensland, *Imma* sp. n.

Perkins, 5; Queensland, *Rhopalocera*, notes.

Rothschild, W. 2; Queensland, *Eppyrrops* sp. n.

Swinhoe, 3; Queensland, *Lineopalpa* sp. n.

Turner, A. J., 1; *Synemon* sp. n., *Bombyces* 9 spp. n., *Noctuidae* 8 spp. n., *Geometridae* 14 spp. n., *Tineidae* 6 spp. n.

Turner, A. J., 2; *Thyrididae* and *Pyralidae* 3 spp. n.

(Turner, A. J., 4; Australian *Heterocera*, Critical notes and descriptions of new species.

(Waterhouse and Turner; Australian *Lycaenidae*, notes and descriptions.

Neuroptera.

Enderlein, 19; N. S. Wales, *Coniopterygidae* 6 spp. n.

(Froggatt, 13; Descriptions of new species of *Neuroptera*.)

Diptera.

Meijere, 2; Sydney, *Sepsis* spp. n.

Perkins, 3; Queensland, *Pipunculus* sp. n.

Roubaud, 10; Victoria, *Simulium* sp. n.

Stein, 1; *Spilogaster* sp. n.

Wandolleck, 1; Queensland, *Ogcodes* sp. n.

Aphaniptera.

Rothschild, N. C., 3; Tasmania nov. gen.

(Rainbow, W. J.; Australian *Siphonaptera*, new spp. and critical notes.)

Hemiptera—Heteroptera.

Bergroth, 6; Yorketown, *Pentatomidae* subfam. n., *Coreidae* subfam. n.

Reuter, 6; Australia and Tasmania, *Capsidae* 8 spp. n.

Reuter, 10; North Australia and Sydney, *Capsidae* 7 spp. n.

Schouteden, 4; *Aphylum* sp. n.

Schouteden, 3; *Pentatomidae* 5 spp. n.

Homoptera.

Distant, 3; gen. n. *Cicadidae*.

Distant, 8; Queensland, *Cyclochila* sp. n.

Distant, 11; S. Australia, *Burbunga* sp. n.

Distant, 12; *Fulgoridae* 6 spp. n.

Distant, 13; *Fulgoridae* gen. n., *Olonia* sp. n.

Distant, 15; *Dictyophara* sp. n.

Kirkaldy, 6; *Jassidae*, *Membracidae*, *Cercopidae*, *Fulgoridae*, *Eutropistidae*, *Achilidae*, *Derbidae*, *Issidae*, *Poecilopteridae*; 203 spp. n.

Melichar, 1; *Issides* spp. n.

Coccidae.

Froggatt, 8; Insect fauna of the Kanajong Tree (*Brachychiton populneum*).

Thysanoptera.

Froggatt, 6; Tamworth, *Kladothrips* sp. n.

Psocidae.

Enderlein, 16; Die australischen Copeognathen, Revision, 5 spp. n.

Odonata.

Tillyard, 1; Queensland, *Austrogomphus* 3 spp. n.

Tillyard, 2; Queensland, *Agrionidae* 11 spp. n.

Tillyard, 4; novelties, 3 spp. n.

Orthoptera.

Shelford, R., 1; *Escala* gen. n.

(**Froggatt, 10**; Australian Phasmidae.)

Thysanura.

Silvestri, 2; N. S. Wales, *Machilidae* gen. n.

North America.

Insecta.

Schmitt; Ile d'Anticosti, list.

Fletcher and others; Ottawa, *Lep.* and *Col.*, brief lists, Ottawa, Natural, 29, (82-86).

Ruthven; Porcupine mountains and Isle Royale, Michigan, Spiders and insects.

Slosson; Alpine region of Mt. Washington.

Brimley, 1; Lake Ellis, North Carolina, excursion.

Hart; Texas winter trip, annotated list, *Orthoptera*, *Mesochlora*, *Nemobius* sp. n.

Hine, 6; Louisiana, Entomology of the region of the Gulf biologic station.

†**Handlirsch, 1**; *Palaeodictyoptera*, *Protodonata*, *Megasecoptera*, *Hadentomoidea*, *Haplapteroidea*, *Mixotermioidea*, *Protorthoptera*, *Protoblattoidea*, *Blattoidea*; new families, genera and species translated from the German.

Handlirsch, 2; Die fossilen Insecten.

†**Wheeler, 14**; Florissant, account of.

Coleoptera.

Tower, 3; Distribution of *Leptinotarsa*.

(**Bourgeois, 13**; Les Lycides du Muséum, g h.)

Bernhauer, 4; *Alcocharini* 15 spp. n.

Blaisdell, 1; California, *Lathrotropis*, *Dasytes* spp. n., *Tenebrionidae* gen. n.

Casey; *Alcocharinae* and *Xanthoinini* spp. n.

Champion; *Cryptorhynchides* and *Zygopides* spp. n.

Chittenden, 1; *Notaris* sp. n.

Dury, 2; Cincinnati region, 7 spp. n., *Colyphus*, *Eustrophus*, *Mordellistena*, *Halticidae*.

Fall, 1; *Trachykele*, *Mastogenius*, *Agrilus* sp. n.

Fall, 2; California, *Platyceus* and *Pleocomma* spp. n.

Fall, 3; *Zygopini* 10 spp. n.

Fall, 4; *Notiophilus*, revision.

Fall, 5; South-west, *Cymatodera* and *Hydnocera* 8 spp. n.

Fiske; N. Carolina, *Paraplinthus* sp. n.

Poppius, 7; North-west. N. America, *Cryobius* spp. n.

Wickham, 2; *Tanarthropsis* 1 spp. n.

Schaeffer, 1; Texas and Arizona, *Chrysomelidae* 31 spp. n.

Schaeffer, 2; Texas and Arizona, *Scirtes* and *Laemnodactyla* spp. n.

Schaeffer, 3; Texas, etc., and Lower California, *Anomala* 4 spp. n.

Schaeffer, 4; *Bradycinetus*, *Copris*, *Lachnosterna* spp. n., *Cyclocephalides* gen. n.

Schaeffer, 5; *Pselaphidae* 6 spp. n.

Schaeffer, 6; Southern U. S. and Lower California, *Anthribidae* 16 spp. n.

Schaeffer, 7; Texas and Arizona, *Oncideres* and *Polyees'a*, sp. n., *Byrsopolis lanigera*.

Schaeffer, 8; *Ochodaeus* 3 spp. n.

Schaeffer, 9; Arizona and Texas *Conotrachelus* 4 spp. n., *Cryptorhynchus laeteicollis*.

Schwarz, 1; Arizona, Alabama, *Elateridae* 3 spp. n.

Skinner, 7; Texas, *Cantharis* sp. n.

†**Sellards**, 3; Maryland Pleistocene, *Coleoptera*.

Knaus; Various localities, notable captures.

Evans, J. D.; Canada, novelties, long list.

Chagnon; Quebec, *Halicta rufa*, Canad. Entomol., 38, (8).

Chagnon; Canada, *Piodes coriacea*, withdrawn. Ent. News, 17, (101).

Dury, 3; Cincinnati, additions.

Blatchley; Indiana, *Platynus quadrimaculatus*, Canad. Entomol., 38, (267).

Wenzel; Tybee island, Georgia, list. Ent. News, 17, (38).

Tucker; Texas, list of 85 spp.

(**Fall**, 6; Notes on some Californian *Buprestidae*.)

(**Fall**, 7; Two new species of *Aphodius*.)

(**Skinner**, 8; Descriptions of new *Coleoptera*.)

[*Hymenoptera*.]

Wheeler, 7; United States, tropical ants introduced into.

Viereck, 2; Western United States, *Hymenoptera* generally, 65 spp. n.

Cockerell, 2; New Mexico and Colorado, *Apidae* 11 spp. n.

Cockerell, 3; Colorado, *Andrena*, *Colletes* and *Halictus*, spp. n.

Cockerell, 4; Texas, Arizona, New Mexico, *Apidae* 8 spp. n.

Cockerell, 6; *Apidae* spp. n.

Cockerell, 9; Texas, *Perdita* 4 spp. n.

Cockerell, 10; Texas, *Perdita* 2 spp. n.

Cockerell, 12; Rocky mts., *Apidae* 5 spp. n.

Cockerell, 13; *Apidae*, Washington State, novelties, 5 spp. n.

Cockerell, 16; Florissant, Colorado, *Apidae* 119 spp., 34 spp. n.

Cockerell, 19; *Anthophoridae*, Catalogue, 9 spp. n.

Cockerell, 20; New Mexico, *Apidae* catalogue annotated, *Xenoglossodes* sp. n.

Lovell and Cockerell; Southern Maine, *Anthophoridae*, *Halictoididae*, *Macropidae* and *Panurgidae*, *Melissodes* 2 spp. n.

Cameron, 16; Canada to New Mexico, *Odynerinae* 12 spp. n.

Clarke; California, *Dolerus* sp. n.

Crawford, 1; Texas and New Mexico, *Halictus* 5 spp. n.

Crawford, 2; Nebraska and Texas, *Apidae* 3 spp. n.

Crawford, 3; Oregon, etc., *Halictus* 4 spp. n.

Crawford, 4; Nebraska, *Halictus* sp. n.

Swenk, 1; *Colletes* 5 spp. n.

Swenk, 2; *Colletes* 6 spp. n.

Cameron, 14; Vancouver's isld., *Odynerus* sp. n.

Viereck, 1; Connecticut, *Tiphia* and *Odynerus*, spp. n.

Fernald, H. T.; *Chlorioninae* localities sp. n.

Smith, Harry S., 2; Nebraska, *Larridae* 3 spp. n.

Wheeler, 6; New England, *Formica* sp. n.

Wheeler, 2; Grand Cañon, ants of, 2 spp. n.

Buysson, R. du, 5; Colorado, *Hedychridium* sp. n.

Bradley; Brit. Columbia, *Blepharipis*, *Spilomena*, *Gonatopus* sp. n.

Brues, 1; Texas, *Anusia* sp. n.

Skinner, 2; Pennsylvania, *Metopius* sp. n.

Girault, 2; Maryland and Ohio, *Teleonomus* 2 spp. n.

Perkins, 2; Ohio, *Chalcididae* 3 spp. n.

Girault, 4; Washington, *Eulophus* sp. n.

Howard, 4; *Prospalta* sp. n.

Brues, 4; *Proctotrypidae* 9 spp. n.

Kieffer, 10; *Proctotrypidae* many spp. n.

Bridwell; Kansas, *Odontophyes* sp. n.

Konow, 3; Texas, *Argini* 2 spp. n.

Macgillivray, 2; Connecticut, *Priophorus* sp. n.

Cockerell, 15; Colorado, *Pteronus* sp. n.

†**Brues, 2**; Colorado, fossil parasitic and phytophagous Hymenoptera from Florissant, 9 spp. n.

†**Cockerell, 14**; Florissant, new fossil ant.

†**Cockerell, 18**; Florissant, Colorado, Fossil, *Hymenoptera* 36 spp. n.

†**Cockerell, 17**; Colorado, *Tenthredinidae* 30 spp. n.

Wheeler, 12; New England, list of the *Formicidae*.

Cockerell, 21; localities, *Andrena* spp.

Nason, 1, 2, 3; Algonquin, parasitic Hymenoptera.

(**Buysson, Du, R., 4**; Hyménoptères.)

(**Cockerell, 30**; three new bees . . .)

(**Cockerell, 32**; new bees . . .)

(**Vachal, 7**; *Halictus* . . .)

Lepidoptera.

Barnes; Arizona, *Eutricha* sp. n.

Busck, 1; Pennsylvania, *Tineina* 7 spp. n.

Busck, 2; Texas, *Cydia* sp. n.

Busck, 3; Colorado, *Recurvaria* sp. n.

Busck, 5; *Cosmopteryx*, localities, 1 sp. n.

Busck, 6; Southern Texas, *Tineidae* 12 spp. n.

Busck, 7; Arizona and California, *Cerostoma* 4 spp. n.

Busck, 9; *Hemimene* and *Lipoptycha*, 9 spp. n.

Coseus; Canada, *Retinia* sp. n.

Dyar, 1; Colorado, Arizona, Texas, *Pyralidae* 4 spp. n.

Dyar, 2; North American, *Nymphulinae* and *Scopariinae*, monograph, 12 spp. n.

Dyar, 3; North America, *Salebria* and gen. n. affinis, *Eurythmia*, *Eucosma* sp. n.

Dyar, 5; Arizona, *Gloveria*, *Heterocampa*, sp. n.

Dyar, 6; Texas, Arizona, Florida, novelties, *Tolyte*, *Apatelodes*, *Schizurae*, *Zeuzera*, *Ravigia*, *Adoncta*, spp. n.

Grossbeck, 1; Arizona, *Monoleuca* sp. n.

Grossbeck, 3; Arizona and California, *Stenaspilates* and *Eucestia* 3 spp. n.

Hampson, 1; Texas, *Aglossa* sp. n.

Hampson, 3; Canada to Arizona, *Cucullianae* 4 spp. n.

Hering; Texas, *Desmia* sp. n.

Pearsall, 2; Utah, Arizona and Texas, *Gcometridae* 14 spp. n.

Pearsall, 3; *Nomenia* and *Euchoccia* sp. n.

Pearsall, 4; Eastern U.S., *Philopsia* sp. n.

Skinner, 3; from Texas and Arizona, *Rhescipha*, *Ruscino*, *Cosmosoma*, *Pyrjus*, spp. n.

Skinner, 6; Arizona, *Syntomeida* sp. n.

Smith, John B., 3; *Noctuidae* 35 spp. n.

Smith, J. B., 4; *Noctuidae* 18 spp. n.

Stretch; N. America, *Arachnis* sp. n.

Swett, 1; *Caripeta* sp. n.

Swett, 2; *Caripeta* sp. n.

Taylor, 1; Arizona, *Sabulodes* 2 spp. n.

Taylor, 2; Arizona and California, *Geometridae*, *Melemaea*, *Hydriomena*, *Macaris*, *Eumera*, *Eupithecia* spp. n.

Taylor, 3; Alberta, *Eupithecia* 4 spp. n.

Taylor, 5; Alberta, *Xanthorhoe* and *Aplodes* sp. n.

Taylor, 7; British Columbia, *Geometridae* 17 spp. n.

Taylor, 8; Ottawa, *Eupithecia* sp. n.

Wright; butterflies of the west coast of the United States 14 spp. n.

Rothschild and Jordan, 3; *Papilio* revision with localities.

Cary; Diurnal *Lepidoptera*, Athabaska and Mackenzie region.

Dod; Alberta, N.W.T., *Macrolep.*, annotated list.

Dashwood-Jones; British Columbia novelties (127), *Canad. Entomol.*, 38.

Crocker; Saskatchewan *Rhopalocera*, notes; London, *Proc. S. London, nat. hist. Soc.*, 1906, (1-3).

Heath; Manitoba, captures, 1905, (218-220), *Canad. Entomol.*, 38.

Taylor, 6, Canada *Himera pennaria*.

Montreal, *Sphinx luscitiosa*, *Canad. Entomol.*, 38, (59).

Haight; Temagami lake, Lake Huron, *Noctuidae* and *Geometridae*, list (94-96), *Canad. Entomol.*, 38.

Fernekes; Milwaukee county, *Lepidoptera*.

Comstock; Keene Valley, N.Y., list.

Cook; Pennsylvania, *Pyrgus centaureae*, *Ent. News*, 17, (99).

Skinner; Pennsylvania, *Ophisma tropicalis*.

Pearson; Connecticut, rare catches in, *Ent. News*, 17, (70).

Pilate; Ohio, rare *Lepidoptera*, *Ent. News*, 17, 1906, (31).

Elrod; Montana, butterflies, nature study bulletin.

Newcomer; Pt. Arena, Cal. *Rhopalocera*, *Ent. News*, Philadelphia, Pa., 17, (347-348).

Rivers; Southern California, *Eudamus proteus*.

Trichoptera.

Banks, N., 8; 26 spp. n.

Neuroptera.

Banks, N., 1; Virginia. Arizona, and Florida, *Allochrysa*, *Siphulasea*, *Panorpa*, sp. n.

Banks, N., 1; *Raphidia*, *Chrysopa*, *Leucochrysa*, *Eremochrysa*, *Calinemurus*, *Maracaudula*, *Deudrolcon*, *Panorpa*, *Panorpodes* spp. n.

Banks, N., 9; *Hemerobiidae*, revision, catalogue, 3 spp. n.

McClendon, 2; Texas, *Brachynemurus* sp. n.

McClendon, 4; Texas, catalogue.

Diptera.

Aldrich, 1; California, *Calotarsa* sp. n.

Coquillett, 2; Illinois, *Tabanus* sp. n.

Coquillett, 3; California, *Culex* sp. n.

Coquillett, 5; North America?, *Janthinosoma* sp. n.

Cresson; The south-west, *Ortalidae* 5 spp. n.

Dyar and Knab, 1; *Culicidae* 7 spp. n.

Dyar and Knab, 2; 2 spp. n., *Anopheles* and *Mochlostyrax*.

Dyar and Knab, 3; *Culicidae* 8 spp. n., [Bahamas 1 sp. n.].

Felt, 3; New York, *Cecidomyiidae* 5 spp. n.

Felt, 10; *Culicidae*, 3 spp. n., *Culicada*, *Culicella*, *Corethra*.

Grossbeck, 2; New Jersey, *Culex* sp. n.

Hine, 2; Louisiana, *Tabanus* sp. n.

Hine, 3; Colorado *Machimus*, British Columbia *Stilpnogaster* sp. n.

Johnson, 2; Mt. Washington *Leucostola*, Quebec *Argyra* sp. n.

Jones, B. J., California, *Ephydriidae* 4 spp. n.

Jones, P. R., Nebraska, *Cuterebra* sp. n.

Ludlow, 1; American mosquito [*Grubhamia nigromaculis*].

Ludlow, 2; Minnesota, *Culex* sp. n.

Ludlow, 3; Alaska, *Thecobaldia* sp. n.

Melander, 2; *Empididae* 4 spp. n., *genn.* n.

Theobald, 7; Mississippi, *Megarkinus* sp. n.

Ainslie; Minnesota, *Chionea valga*.

Washburn; Minnesota novelties.

Washburn; Minnesota short list, Ent. News, **17** (293).

Burgess; Ohio, *Culicidae* list.

Herrick; Mississippi, Mosquitoes, correction. Ent. News, **17** (69).

Hine, 5; Louisiana, *Tabanidae* of.

(**Daecke, 3**; Two new species of *Diptera* from New Jersey.)

Aphaniptera.

Rothschild, N. C., 8; Canada, 3 spp. n.

Hemiptera-Heteroptera.

Barber; Southwestern Texas annotated list, *Dendrocoris* sp. n., *Coreidae* gen. n., *Ligyrocoris*, *Perigines*, *Poecilocapsus* sp. n.

Bergroth, 2; Alabama and Oregon, *Aradus* 2 spp. n.

Heidemann; Washington, *Corythuca* sp. n.

Van Duzee, 2; *Narnia*, *Alydus*, *Jalysus*, *Peritrechus*, *Eremocoris*, *Reduvius*, spp. n; gen. n. *Capsidae*.

†**Cockerell, 27**; Colorado, *Corixa* sp. n.

Bueno, 2; *Cryptocerata* list.

Van Duzee, 1; Ontario, annotated list, *Hemipt. Het.* and *Hom.*

Van Duzee, 3; Adirondack mts. list, *Heteropt.* and *Homopt.*

Homoptera.

Melichar, 1; *Issides* Monographie, spp. n.

Osborn, 1; *Cicada* sp. n.

Osborn, 2; Louisiana, *Cicada* 2 spp. n.

Osborn, 6; New York, *Jassidae* 11 spp. n.

Cockérrell, 28; Colorado, fossil *Cicada*.

Johnson, C. W., 3; New England, *Tibicen septendecim* distribution.

(**Britton, 4**, Some new or little known *Aleyrodidae* . . .)

(**Uhler, P. R.** Recognition of two North American species of *Cicada* Latr.)

Aphididae.

Sanborn, 2 and 3; N. America, Cat. of *Aphidae*, and host plants, 8 spp. n.

Troop; Indiana, *Aphis* sp. n.

Coccidae.

Ehrhorn; California 7 spp. n.

Woglum; New Jersey and Florida, *Aspidiotus* 2 spp. n.

Cockerell, 25; localities.

Psocidae.

Banks, N., 8; 5 spp. n.

Enderlein, 14; synonymy.

Mallophaga.

Durrant, 1; Colorado, 3 spp. n.

Durrant, 2; Colorado, *Physostomum* 2 spp. n.

Embiidae.

Banks, N., 8; *Embia* sp. n.

Termitidae.

Banks, N., 7; Florida and Arizona, 2 spp. n.

Perlidae.

Banks, N., 8; *Perla* 3 spp. n.

Banks, 5; Oregon, *Pteronarcys* sp. n.

Banks, 6; United States 5 spp. n.

Odonata.

†**Sellards, 2**; Permian of Kansas gen. n.

Calvert, 1; *Libellulinae*, localities.

Walker, E. M., 2; Ontario, annotated list of 86 species.

Williamson; Newfoundland, list.

Calvert, 2; New England, list.

Calvert; New England, *Argia apicalis* not to be included. Ent. News, Philadelphia, Pa., **17**, 1906, (31).

Miller; Waterloo Iowa, list.

Brimley, 2; North Carolina, *Odonata*, corrections of previous records.

Orthoptera.

Bruner, 3; *Acridiides* spp. n.

Caudell, 3; United States, *Cyrtophylli* 4 spp. n.

Hancock, 3; Illinois, *Ageneotettix* sp. n.

Morse, 1; Southern States, *Aeridiidae* 6 spp. n.

Rehn, 7; Georgia, *Eotettix* sp. n.

Rehn, 8; Utah, *Platybothrus* sp. n.

Rehn and Hebard; Montana, Yellowstone Park, Utah, and Colorado, *Trimero-*
tropis and *Circotettix Podisma*, sp. n.

†Handlirsch, 1; Montana, Cretaceous *Blattidae* sp. n.

Walker, E. M., 1; N.W. Canada, list.

Morse, 4; Porcupine Mountains, Michigan. The ecological relations of the *Orthoptera*.

Morse, 2; New England, *Melanoplus viridipes*.

Morse, 3; New England, *Nemobius palustris*.

Rehn, 10; New Jersey, *Conocephalus lyristes*.

Central America.

Coleoptera.

Arrow, 3; *Passalidae* 3 spp. n.

Casey; Mexico to Panama, and Lower California, *Aleocharinae*, *Xantholinini*, spp. n.

Champion; *Cryptorhynchides* and *Zygopides*, many spp. n.

Desbrochers, 9; Costa Rica, n. g. *Cholides*.

Fall, 5; Lower California, *Cymatodera* sp. n.

Gounelle, 3; Guatemala, *Taurolema* sp. n.

Grouvelle, 3; Costa Rica, *Colastus* sp. n.

Heller, 1; Costa Rica and Nicaragua, *Cureulionidae* 7 spp. n.

Jacoby, 3; Costa Rica and Mexico, *Asphaera* sp. n., *Oedionychis* 3 spp. n.

Jordan, 6; *Anthribidae* spp. n.

Kerremans, 3; Mexico, *Buprestidae* spp. n.

Kolbe, 1; Mexico and Guatemala, *Daemonoplus* 2 spp.

Kolbe, 4; *Strategus* 3 spp. n.

Lesne, 5; Mexico, *Psoa* sp. n.

Lesne, 10; *Micrapate* 5 spp. n.

Pic, 26; Costa Rica, *Macrosiagon* sp. n.

Schenkling, 1; *Cleridae* spp. n.

Schwarz, 1; Chiriqui and San Salvador, *Elateriden* 2 spp. n.

Solari, 3; *Barini* 24 spp. n.

Tower, 3; Mexico, *Leptinotarsa*, distribution, 3 spp. n.

Weise, 9; Nicaragua, *Hispidae*, list, 2 spp. n.

Lower California, *Anomala* vide N. America, Schaeffer, 3; *Buprestidae* spp. n., Fall, 6; *Brachytarsus* sp. n., Schaeffer, 6; *Chrysomelidae*, Schaeffer, 1.

Hymenoptera.

André, 1; Costa Rica, Guatemala, *Ephuta* 2 spp. n.

Ashmead, 3; Mexico, *Ctenopyga* sp. n.

Du Buysson, R., 2; *Apoica* and *Syn-oea*, localities.

Cameron, 8; Panama, *Eumenes* sp. n.

Cameron, 17; North Mexico, *Odynerus* sp. n.

Cameron, 18; Panama, *Eumenes* sp. n.

Cameron, 22; Panama and Honduras, *Polybia* 2 spp. n.

Crawford, 5; Costa Rica, *Apidae* 7 spp. n.

Fernald, 2; *Chlorioninae*, localities.

Forel, 2; Costa Rica, *Pseudomyrma* sp. n.

Friese, 1; Chiriqui, *Rhathymus* sp. n.

Kieffer, 3; Nicaragua, *Bethylidae* gen. n., 4 spp. n.

Kieffer, 4; Nicaragua, *Proctotrypidae* 8 spp. n.

Kieffer, 10; *Proctotrypidae* many spp. n.

Konow, 3; Guatemala, *Labidarge* sp. n.

Szépligeti, 1; Mexico, *Agrypon* sp. n.

Zavattari, 1; Darien, *Alastor* sp. n.

Zavattari, 2; Darien, San José, *Diptera* spp. n.

Lepidoptera.

Dognin, 1; Chiriqui, *Nesaleis* sp. n., San Salvador, *Lygropia* sp. n.

Hampson, 1; *Pyralidae* spp. n.

Hampson, 2; *Hydrocampinae* 9 spp. n.

Rothschild and Jordan, 1; Costa Rica, *Protambulyx* sp. n.

Rothschild and Jordan, 3; *Papilio*, revision, localities and 1 sp. n. from Honduras.

Schaus; *Citheroniidae* 3 spp. n., *Carthara* sp. n., *Noctuidae* 22 spp. n., *Pyralidae* 10 spp. n.

Warren, 1; *Epiplemidæ* and *Geometridæ* 56 spp. n.

Neuroptera.

Banks, N., 9; Nicaragua, *Megalomus* sp. n.

McClendon, 1; Mexico, notes on collecting in.

Diptera.

Cresson, Guadalajara, *Pterocalla* sp. n.

Dyar and Knab, 1; *Culicidae* 16 spp. n.

Dyar and Knab, 2; *Culicidae* 3 spp. n.

Dyar and Knab, 3; *Culicidae* 22 spp. n.

Hine, 2; Guatemala and Costa Rica, *Tabanus* 4 spp. n.

Hemiptera.

Breddie, 3; Costa Rica, *Pachyeoris* and *Leptoceelis* spp. n.

Bueno, 4; Costa Rica, aquatic *Hemiptera*, list.

Distant, 1; Mexico and Lower California, *Rihana* 2 spp. n.

Distant, 13; Guatemala, *Calypso-proctus* sp. n.

Melichar, 1; Mexico, *Thionia* sp. n., Costa Rica, gen. n. *Issides*.

Psocidae.

Banks, N., 8; Mexico, *Psocus*, *Chrysopa*, *Leucochrysa* spp. n., Nicaragua, *Wormaldia* sp. n.

Enderlein, 13; Chiriqui, *Isehnopteryx* sp. n.

Odonata.

Calvert, 1; *Libellulinae* spp. n.

Orthoptera.

Borelli, 3; Costa Rica, *Forficulidae* 11 spp. n.

Bruner, 1; Centr. America incl. Lower California, *Aceridiides* spp. n.

Bruner, 4; Guatemala, *Orphula*, *Orphulella*, *Arnilia* and *Cornops* spp. n.

Brunner and Redtenbacher; *Phasmodae*, monograph, spp. n.

Burr, 1; Mexico, *Neolobophora* sp. n.

Caudell, Guatemala, list.

Hancock, 1; Costa Rica, *Tetriginae* sp. n.

Rehn, 2; Costa Rica, *Locustidae* 3 spp. n., *Gryllidae* gen. n.

(**Rehn, 12**; Notes on the Orthoptera of Costa Rica, with descriptions of new species.)

Antilles.

Inclusive of Bahamas and Bermudas. Trinidad *vide* South America.

Coleoptera.

Arrow, 3; *Passalidae* list, Grenada, *Neleides* sp. n.

Casey; Cuba, *Alcocharinae* and *Xantholinini* spp. n.

Desbrochers, 9; Guadeloupe, etc., *Cholides* 2 spp. n.

Kolbe, 4; *Strategus* list.

Lesne, 5; Jamaica and Lesser Antilles, *Bostrychidae* 2 spp. n.

Pic, 1; St. Domingo, *Physcius* sp. n.

Pic, 23; Guadeloupe, *Ptinus* and *Eupactus* sp. n.

Pic, 26; Guadeloupe, *Lobetius* sp. n.

Schwarz, 1; Cuba, *Pyrophorus* sp. n.

Verrill; Dominica, *Dynastes* 2 spp. n.

Hymenoptera.

André, 1; Haiti, *Ephuta* sp. n.

Ashmead, 1; Cuba, *Cryptini* gen. n.

Fernald, H. T.; *Chlorioninae* localities.

Kieffer, 10; Cuba, *Seelio* sp. n.

Wheeler, 3; Bermudas, *Prenolepis* sp. n.

Lepidoptera.

Hampson, 1; Bahamas and Jamaica, *Pyralidae* spp. n.

Hampson, 2; Jamaica, *Hydrocamptinae* 6 spp. n.

Hering; Jamaica, *Eudiotis* sp. n., Haiti *Desmia* sp. n.

Kaye, 1; Jamaica, *Chlosyne* sp. n.

Schaus; Cuba, *Caviria* and *Doa* sp. n.

Warren, 1; *Geometridae*, Cuba 14 spp. n., Jamaica 2 spp. n., Santa Lucia 1 sp. n.

Trichoptera.

Ulmer, 3; Jamaica, *Chimarra* sp. n.

Diptera.

Coquillett, 4; San Domingo, *Stegomyia* 2 spp. n.

Dyar and Knab, 1; Bahamas, Cuba, San Domingo, Martinique, *Culicidae* 9 spp. n.

Dyar and Knab, 3; *Culicidae*, Bahamas, S. Domingo, Cuba, Jamaica, 6 spp. n.

Grabham, 1; Jamaica, *Corethrella* sp. n.

Grabham, 2; Jamaica, *Culicidae* 3 spp. n.

Grabham, 3; Jamaica, *Culicidae* 4 spp. n.

Wheeler, 13; Porto Rico, *Puleiphora* sp. n.

Hemiptera.

Bergroth, 2; Jamaica, *Mezira* sp. n.

Melichar, 1; Jamaica, *Thionia* sp. n.

Odonata.

Calvert, 1; Porto Rico, *Micrathyria* sp. n.

Orthoptera.

Brunner and Redtenbacher; Jamaica, Cuba, *Phasmidae*, general work, spp. n.

Rehn, 3; Bahama Islands, *Orthoptera*, *Eurystis*, *Aphlebia* sp. n., n. gen. *Phasmidae*.

Collembola.

Börner, 4; *Cyphodercus* sp. n.

South America, including Trinidad.

Insecta.

Kieffer and Herbst; Chile, galls and gall-insects, *Cecidomyiidae* spp. n.

Colcoptera.

Arrow, 3; *Passalidae* 6 spp. n.

Bernhauer, 2; *Staphyliniden* 15 spp. n.

Bernhauer, 3; Venezuela, Peru, Bolivia, Brazil, *Staphylinidae* 19 spp. n.

Champion; *Cryptorhynchides*, *Zygopiles* spp. n.

Desbrochers, 9; *Cholides*, many spp. n.

Felsche; Paraguay, *Megalosma* sp. n.

Fowler; Peru, *Antichira* sp. n.

Germain and Kerremans; Chile *Buprestidae* 9 spp. n.

Gounelle, 1; Argentina, gen. n. *Cerambycides*.

Gounelle, 3; *Hoplistocerus*, *Cycloplus*, *Taurolema*, *Gymnocerus* spp. n.

Grouvelle, 8; Argentina, *Nitidulidae* gen. n.

Grouvelle, 3; Amazons and Cayenne, *Perilopa*, *Pseudostelidota*, *Phloeodalis* spp. n.

Grouvelle, 4; Argentina and Paraguay, *Nitidulidae* 3 spp. n.

Hagedorn; *Scolytidae*, *Dryocoetes* and *Xyleborus* 7 spp. n.

Heller, 1; *Cureulionidae* 18 spp. n.

Horn, 5; Matto Grosso, *Cicindela* sp. n.

Jacoby, 3; *Homophocta*, *Asphaera*, *Oedionychis*, about 120 spp. n.

Jensen-Haarup; Mendoza, *Berosus* sp. n.

Kerremans, 3; *Buprestidae* spp. n.

Klages, 2; Venezuela, *Copridae* gen. n.

Kolbe, 1; Colombia, *Daemonoflus mizzechi*.

Kolbe, 4; *Strategus* 3 spp. n.

Lesne, 1; Chaco argentin, *Micrapate* sp. n.

Lesne, 2; Patagonie, *Nyctelia* sp. n.

Lesne, 5; Brazil, *Bostrychidae* 2 spp. n.

Lesne, 6 ; *Sinoxylinae*, revision, 2 spp. n.

Lewis, 2 ; Peru, *Lioderma* sp. n.

Maindron, 9 ; *Carabidae* 10 spp. n.

Olivier, 1 ; Colombia, *Lucidota* 2 spp. n.

Pic, 1 ; *Lobetus* and *Macrosiagon* spp. n.

Pic, 2 ; *Silis*, *Podabrus*, *Discodon* spp. n.

Pic, 14 ; Mendoza, *Plinius* sp. n.

Pic, 17 ; *Spermophagus* and *Maronius* spp. n.

Pic, 26 ; *Maronius*, *Thisias*, *Trypherus*, *Oonomorphus*, *Physcius*, *Anthicus* spp. n.

Pic, 29 ; *Maronius*, *Lobetus*, *Belotus* 12 spp. n.

Pic, 33 ; *Telephorides* 28 spp. n.

Pic, 38 ; Argentina, *Anthicides* 3 spp. n.

Schenkling, 1 ; *Cleridae* spp. n.

Schwarz, 1 ; *Elateridae* 72 spp. n.

Solari, 3 ; *Barini* 9 spp. n.

Weise, 2 ; Brazil, *Pristonema* sp. n.

Weise, 6 ; Peru and Bolivia, *Gavirga* 2 spp. n.

Weise, 10 ; Argentina, Chili, Brazil, *Coccinellidae* 7 spp. n.

(**Boucomont, 2** ; Espèce nouvelle de *Bolboceras*.)

(**Fairmaire, 6** ; Coléoptères de l'Argentine.)

(**Fairmaire, 8** ; Trois coléoptères du Brésil.)

(**Fairmaire, 11** ; Coléoptères hétéromères de la République Argentine.)

(**Gounelle, 5** ; *Coremia* de l'Argentine.)

(**Pic, 42** ; *Anthicus* nouveau de l'Amérique méridionale . . .)

(**Théry, 2** ; Bupréstides.)

Hymenoptera.

André, 1 ; *Mutillidae* 19 spp. n.

Brèthes, 1 ; Argentina, *Eumenidae* 10 spp. n.

Brèthes, 3 ; Argentina and Paraguay, *Vespidae* and *Eumenidae* 39 spp. n., Brazil, 1 sp. n.

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Buysson, R. du, 1 ; Mendoza, *Hyménoptères* ; *Vespidae*, *Chrysis* sp. n.

Cameron, 8 ; Amazons, *Polybia* 3 spp. n.

Cameron, 22 ; Amazons, *Chartergus* and *Polybia* 3 spp. n.

Du Buysson, R., 2 ; Apica and *Synoecca*, localities.

Du Buysson, R., 1 ; Patagonie, *Pepsis limbata*.

Ducke, 1 ; Amazons, *Polistomorpha* sp. n.

Ducke, 2 ; Brazil, *Halictus* spp. n.

Ducke, 7 ; Brazil, *Vespidae* 5 spp. n.

Ducke, 4 ; Amazons region. distribution within.

Ducke, 5 ; Bienen der Amazonasländer.

Ducke, 6 ; Pará, *Vespidae* 3 spp. n.

Emery, 6 ; *Atta*, revision, 6 spp. n.

Emery, 7 ; *Formicidae* 38 spp. n.

Enderlein, 5 ; Santa Catharina, *Brachygaster* 2 spp. n.

Enderlein, 10 ; Colombia and Peru, *Stephaniidae* 2 spp. n.

Fernald, H. T. ; *Chlorioninae*, localities.

Forel, 2 ; *Pseudomyrma*, *Cryptocerus*, *Azteca*, *Camponotus*, spp. n.

Friese, 1 ; *Apidae* 4 spp. n.

Friese, 2 ; Chile and Argentina, *Apidae* 11 spp. n.

Friese, 3 ; Chile and Argentina, *Oediscelis* 3 spp. n.

Friese, 4 ; Argentina, *Caupolicana* and *Ptiloglossa* 4 spp. n.

Friese, 5 ; Chile and Argentina, *Apidae* gen. n. near *Andrena*.

Kieffer, 1 ; Argentina, *Cynipidae* sp. n.

Kieffer, 3 ; Chile, Brazil, *Braconidae*, *Evaniidae*, *Platygasterides* 3 spp. n.

Kieffer, 4 ; Paraguay and Uruguay, *Proctotrypidae* 2 spp. n.

Kieffer, 5 ; Brazil, *Cynipidae* sp. n.

Kohl, F. F., 2 ; *Pompilus* sp. n., *Nortonia* sp. n.

Konow, 1 ; *Lophyrini* 26 spp. n.

Konow, 2 ; *Argini* 42 spp. n.

Mayr; Para and Blumenau, *Feigen-Insekten* 4 spp. n.

Mocsáry, 1; Asuncion, *Jugurtia* sp. n.

Schrottky, 1; Paraguay, *Evaniidae* 7 spp. n.

Schrottky, 3; Paraguay to Patagonia, *Apidae* 14 spp. n.

Schrottky, 4; Paraguay, *Trigonalidae* gen. n.

Schrottky, 5; Paraguay, *Chalcididae* 2 spp. n.

Schrottky, 8; Paraguay, *Apidae*, *Prosopeis* 18 spp. n., *Augochloropsis* sp. n.

Schulz, W. A., 3; *Ampulicinae* gen. n., *Rhopalosoma* sp. n.

Schulz, W. A., 6; S. Brazil, *Seminota* sp. n.

Schulz, W. A., 1; Brazil, *Seminota* sp. n.

Smith, Harry S., 1; Argentina, *Caulopoliana* sp. n.

Szépligeti, 1; *Ichneumonidae* many spp. n.

Szépligeti, 2; *Braconidae* many spp. n.

Zavattari, 1; Argentina, *Cuba*; Darien, *Alastor* sp. n.

Zavattari, 2; Darien, Ecuador, *Diptera* spp. n.

(**Buysson Du, R., 6**; *Chrysidides* de l'Amerique du Sud.)

(**Vachal, 4**; *Lonchopria*, n. genre d'*Apidae*.)

(**Vachal, 6**; Voyage de M. G.-A. Baer, Tucuman (Argentine), *Mellifera*.)

Lepidoptera.

Dognin, 1; *Syntomidae*, *Lithosiinae*, *Arctiinae*, *Geometridae*, *Pyrallidae* 50 spp. n.

Dognin, 2; S. Amer., incl. Chile, *Geometridae* 23 spp. n.

Dohrn, 2; Ecuador, *Diamma* sp. n.

Druce, Herbert, 1; Trop. S. America (chiefly Peru), *Bombyces* 58 spp. n. and *Euglyphia* sp. n.

Druce, Herbert, 2; Peru, *Bombyces*, 24 spp. n.

Dyar, 1; French Guiana, *Semyra* sp. n.

Hampson, 1; *Thyrididae* and *Pyralidae* spp. n.

Hampson, 2; *Hydrocampinae* 6 spp. n.

Hampson, 3; S. Amer., incl. Patagonia, *Noctuidae*, catalogue *Cucullianae* 4 spp. n.

Hering; Brazil, etc., *Desmia*, *Eudiotis*, *Stenoptycha*, *Lineodes* spp. n.

Kaye, 1; Guiana *Rhopalocera* 4 spp. n.

Klages, 1; Venezuela, *Syntomidae* 27 spp. n.

Lathy, 1; *Heliconius* 3 new forms.

Lathy, 2; Ecuador, *Pronophila* 2 spp. n.

Mabille, 1; Peru, *Chaerephon* sp. n.

Meyrick, 2; *Imma* 5 spp. n.

Pfützner, 1; Venezuela *Phassus* sp. n., Peru *Triod'a* sp. n.

Rothschild, W., 1; Paraguay, *Dysdaemonia* sp. n.

Rothschild and Jordan, 1; *Sphingidae* 4 spp. n.

Rothschild and Jordan, 3; *Papilio* revision, localities and 7 spp. n.

Schaus; *Bombyces*, *Noctuidae*, *Pyralidae* 113 spp. n.

Spuler; n. gen. *Tineidae* on *Bradypus*.

Stichel, 2; Brasilien, *Brassolis* sp. n.

Warren, 1; *Geometridae* and *Epiplemidae* 228 spp. n.

Weeks, 1; Venezuela, *Ecesia*, *Ithomia*, *Thecla*, *Euselasia*, *Charis*, *Methonella*, *Nymphidium*, *Carystus*, *Pythonides*, *Pamphila* spp. n.

Weeks, 2; Venezuela, *Hesperiidae* 5 spp. n.

Weeks, 3; Venezuela, *Adelpha*, *Mesene*, *Nymphidium*, *Ithomia*, *Euselasia*, sp. n., *Hesperiidae* 5 spp. n.

Weymer, 1; Bogota, *Heliconius* 2 spp. n.

Weymer, 2; Argentina, *Automeris* sp. n.

(**Dognin, 3**; Papillons nouveaux.)

(**Joannis, 4**; Lepidoptères nouveaux du Brésil.)

(**Oberthür, 11**; Nouveaux Sphingides.)

(**Thierry Mieg, 1**; Lépidoptères nouveaux hf df.)

Trichoptera.

Ulmer, 3; Ecuador, Brazil, Patagonia, spp. n.

Neuroptera.

Enderlein, 19; Peru, Chile, *Coniapterygidae* 7 spp. n.

Diptera.

Brèthes, 2; Argentine, *Sarcophaga* sp. n.

Coquillett, 4; Trinidad, *Culicidae* 3 spp. n.

Dyar and Knab, 1; Trinidad, Surinam, Ecuador, *Culicidae* 6 spp. n.

Dyar and Knab, 2; Trinidad 6 spp. n.

Dyar and Knab, 3; Trinidad, *Culicidae* 5 spp. n.

Fiebrig; Paraguay, *Acanthomera* sp. n.

Kieffer, 7; Chile and Colombia, *Ceratopogon*, *Orthocladus*, *Muscidae* gen. n., *Urophora*; spp. n.

Roubaud, 2; Ecuador and Venezuela, *Simulium* 3 spp. n.

Roubaud, 10; Brazil, *Simulium* sp. n.

Tavares, 5; Brazil n. gen. *Cecidomyiidae*.

Aphaniptera.

Jordan and N. C. Rothschild; *Hectopsylla* 2 spp. n.

Hemiptera-Heteroptera.

Bergroth, 10; Venezuela *Plocariinae* 6 spp. n.

Breddin, 3; Manaos and Ecuador and Peru, *Galedanta*, *Nezara*, *Stiretrus*, *Coryzorhaphis*, spp. n.

Reuter, 9; Venezuela, *Capsidae* 19 spp. n.

(**Bergroth, 11**; Rhynchota neotropica.)

(**Kirkaldy, 13**; Tingides nouveaux on peu connus du Peru.)

Homoptera.

Distant, 2; Brazil, *Cicadatra* sp. n.

Distant, 3; Patagonia, *Tettigades* sp. n.

Distant, 6; Chili, *Tettigades* sp. n.

Distant, 11; Brazil, Argentina, *Cicadidae* 5 spp. n.

Distant, 12; *Fulgoridae* 3 spp. n., *Cicadidae* sp. n.

(x-9720 j)

Distant, 13; *Fulgoridae* 10 spp. n.

Distant, 15; Bolivia, *Cladypha* sp. n.

Melichar, 1; *Issides* Monographie spp. n.

Schmidt, Edmund, 4; Brazil, Peru, Colombia and Ecuador, *Membracidae* 8 spp. n.

Schmidt, Edmund, 5; Ecuador, *Dia-reusa* sp. n.

Coccidae.

Cockerell, 24; Paraguay, *Eriococcus dubius*.

Cockerell, 25; Argentina, *Pseudococcus*.

Leonardi, 1; Matto Grosso, *Hemichionaspis* sp. n.

(**Cockerell, 31**; Three new South American *Coccidae*.)

Psocidae.

Enderlein, 13; Peru and Argentina, 2 spp. n.

Enderlein, 17; Brazil, *Psocidae* 4 spp. n.

Mallophaga.

Kellogg, 5; Argentina, 6 spp. n.

Termitidae.

Holmgren, 2; Peru and Bolivia, *Termiten* 26 spp. n.

Odonata.

Calvert, 1; *Libellulinae* localities, *Orthemis* sp. n.

Förster, 2; Surinam gen. n.

Orthoptera.

Borelli, 2; Ecuador, *Ancistrogaster* sp. n.

Bruner, 2; Trinidad, 25 spp. n., *Forficulidae*, *Blattidae*, *Mantidae*, *Aceridiidae*, *Locustidae*, *Gryllidae*.

Bruner, 3; Paraguay, *Aceridiidae* catalogue, 40 spp. n.

Brunner and Redtenbacher; *Phasmidae*, general work, spp. n.

Caudell, 1; Paraguay, *Locustidae* 8 spp. n., *Gryllidae* list.

Caudell, 5; Colombia, *Autolyca* sp. n.

Hancock, 1; *Tetriginae* spp. n.

Hancock, 2; Peru *Tettigidae* 2 *genn.* n.

Rehn, 1; Matto Grosso, *Aceridiidae* 10 spp. n.

Rehn, 4; Brazil and Paraguay, *Aceridiidae* 6 spp. n.

Rehn, 5; British Guiana, *Blattidae* 1 spp. n., *Angela* sp. n., *Ceroys* sp. n.

Rehn, 9; from the Amazons, *Taxiarclus* sp. n.

Shelford, R., 2; French Guiana, new symbiotic *Blattid*.

Shelford, R., 1; *Blattidae* 10 spp. n.

(Bruner, 5; two new South American grasshoppers.)

(Bruner, 6; two remarkable new Costa Rican locusts.)

(Rehn, J., 11; records of some Paraguayan Orthoptera.)

Thysanura.

Escherich, 2; Pará n. *gen.*, Termitophilous.

Silvestri, 2; French Guiana, *Machilinus* sp. n.

Collembola.

Börner, 4; Brazilien and Argentina 1 spp. n.

Wahlgren, 1; Tierra del Fuego *Collembola* spp. n.

III.—SYSTEMATIC.

Some notes on Insects in Copal from Africa and Madagascar, MEUNIER (211-213) Bruxelles Ann. Soc. Scient. **30**.

Importance of systematic entomology, MARCHAL Paris Bull. Soc. ent. 1906.

Ueber die Systematik der Insekten, KRAUSSE Insektenbörse Leipzig **23** 1906 (115-116, 120).

Species and subspecies, YOUNG Bombay J. Nat. Hist. Soc. **17** (128-132).

Genera discussed, BANKS and others, Washington Proc. ent. soc. (37-45).

The wing-nervures, phylogeny deduced from, WOODWORTH.

FOLSOM, Justus Watson. Entomology, with special reference to its biological and economic aspects. Philadelphia

(Blakiston), 1906, (vii + 485, with col. front., illus., pl.). 23 cm.

Fossil Insects; monograph, parts i-iv published in 1906, HANDLIRSCH. — A translation of this work so far as it relates to the N. American palaeozoic insects has also been published; Washington D.C., U.S. National Mus. Proc., **29**, No. 1411 (661-820); this translation appeared previous to some parts of the original work.

COLEOPTERA.

N.B.—Arranged in accordance with the Munich Catalogue of Coleoptera.

Catalogue of Coleoptera of Europe and the Caucasus, Second Edition, REITTER.

JACOBSON, G. G. Die Käfer Russlands und Westeuropas. Ein Handbuch zum Bestimmen der Käfer. Lief. IV. St. Petersburg [A. F. Devrient], 1906, (241-320, mit Taf. 28, 30-33, 35, 36, 38). 28 cm. (2 Rub.).

Nervuration, use of in classification, *Cerambycidae* *Scarabaeidae*, *Buprestidae*, ESCALERA (194-198) Madrid Bol. Soc. espan. **6**.

†Pleistocene *Coleoptera*, SELLARDS Maryland Geol. Surv., Pliocene and Pleistocene, Baltimore **1906** (170-172).

CICINDELIDAE.

Revision of the *Cicindelidae* of Australia, with introduction on principles, taxonomy, phylogeny, and a catalogue. SLOANE Sydney N.S.W. Proc. Linn. Soc. **31** (309-360) plates xxv-xxxi, supplement T.c. (555-560).

Phylogeny of *Cicindelidae*, HORN (86) D. ent. Zs. Berlin 1906.

Review of Horn's system, WICKHAM (24-27) Canad. Ent. **38**.

Zeichnungs-Abänderungen bei *Cicindeliden*, HORN D. ent. Zs. Berlin (173-174) 1 Taf.

Vorkommen von *Tetracha carolina* L. im preussischen Bernstein und die Phylogenie der *Cicindela*-Arten, HORN D. ent. Zs. Berlin **1906** (329-336).

Horn's Systematischer Index der *Cicindeliden*, SHELFORD New York J. Ent. Soc. **14** 1906 (5 8).

Amblycheila cylindriciformis, Ent. News **17** (349).

Cicindela, relations with *Methocia*, ADLERZ Uppsala Arkiv. Zool. **3** No. 4. — *C. doddi* var. n. *semiviridis* (558), *leai* var. n. *nigella* (559), SLOANE Sydney N.S.W. Proc. Linn. Soc. **31**. — *C. tranquebarica*, races, WICKHAM Ent. News **17** (43-48). — *C. repanda* and *purpurea*, MOORE Ent. News **17** (338-343). — *C. rugifrons*, *modesta*, burrows, DAVIS (120) Canad. Entomol. **38**. — *C. maritima* Dej. St. Petersburg, MAZARAKIJ St. Petersburg Hor. Soc. Ent. Ross. **37** (lxxxii-lxxxiv). — *C. lunulata*, *aulica*, etc., varietà e distribuzione in Italia; *C. fiorii* sp. n. Sardegna (99-100), GRANDI Riv. Col. ital. **4** (85-107 1 tav.); also T.c. (220-227). — *C. blackburni* S.W. Australia, SLOANE (342) pl. xxix f. 86 Sydney N.S.W. Proc. Linn. Soc. **31**, sp. n. — *C. marquardti* sp. n. Matto Grosso (91), *argentata* subsp. n. *umbrogemmata* (87), HORN D. ent. Zs. Berlin **1906**.

Collyris emarginatus, life-history, SHELFORD Singapore J. Straits R. As. Soc. No. 45 (283, 284).

Distysidera hackeri Australia, SLOANE (557) Sydney N.S.W. Proc. Linn. Soc. **31**, sp. n.

Megacephala castelnaui (321), *intermedia* (323), spp. n., Australia, larvae, pl. xxvii f. 10 and pl. xxxi, SLOANE Sydney N.S.W. Proc. Linn. Soc. **31**. — *M. marginicollis* Australia, SLOANE, (355) T.c., sp. n.

Myrmecoptera mauchi variation, HORN (174) pl. i figs. 29-35 D. ent. Zs. Berlin **1906**.

Odontochila lacordairei Gory *rytidopteroides* subsp. n., HORN D. ent. Zs. Berlin **1906** (175-176). — *O. bennigseni euryoides* subsp. n., HORN T.c. (85-86).

Ophryodera rufomarginata variation, (173) pl. i figs. 1-17, *foliicornis* variation figs. 18-28, HORN T.c.

Rhysopleura gen. n. (330) for *Distysidera orbicollis* Sloane pl. xxv figs. 3 and 4, SLOANE Sydney N.S.W. Proc. Linn. Soc. **31**.

Tricondyla; tabulation of the forms and synonymy, HORN D. ent. Zs. Berlin (17-33).

(*Cicindela hackeri*, text fig. Cooktown, *doddi* Kuranda *plebeia* Cairns 2,

curvicollis N.W. Australia, *leai* Cooktown SLOANE Sydney N.S.W. Proc. Linn. Soc. **30** (229-234), spp. n.)

(*Euryoda tenuicollis*, *virgulata*, *lacteyana*, Madagascar, FAIRMAIRE, Paris, Bul. soc. ent., **1904**, (128-130), spp. n.)

(*Megacephala seabukuana*, PÉRINGUEY, Paris, Bul. soc. ent., **1903**, (338-339), sp. n.)

(*Tricondyla horni* sp. n. lude, MAINDRON, Paris, Bul. soc. ent., **1904**, (263-268, av. fig.).

CARABIDAE.

Acinopus pilipes ♂, JEANNEL Paris Bul. soc. ent. **1906** (142-143).

Aephnidius barbarus Tunisie, BEDEL Cat. rais. Tunisie, sp. n.

Amara equestris Duft. e *sicula* Dej., LEONI Natural. sicil. **18** (195-196). — *A. anthobia* characters, CRAWSHAY (46-50) Ent. Mag. London **42**. — *A. acuminata*, ovaries, egg, oviposition, MÖBERG Uppsala Arkiv. Zool. **3** No. 6 (1). — *A. aeneola* (17), *A. (Bradytus) articola* (50), *A. (Cyrtotus) sahlbergi* (54), *pullula* (55), Lena Valley, POPPIUS Öfers. F. Vet. Soc., **48**, No. 3, spp. n. — *A. (Paraleirides* subgen. n.) *bickhardti* Corsica, DEVILLE (30) Cat. Col. Corse, sp. n.

Amaroschesis bicolor, *flavipes*, *curta*, *modesta* with varr. *aberrans*, *oblonga*, *vicina*, *vulgaris*, China, TSCHITSCHÉRINE St. Petersburg Hor. Soc. ent. Ross. **37** (247-292), spp. n.

Anillus sekerae sp. n. Italien, REITTER D. ent. Zs., **1906**, (449).

Anoplthalmus dalmatinus Will., Uebergang in *suturalis* Schauf., MÜLLER Entomol. Ztg. Wien **25** (149). — *A. conrexicollis*, *diniensis*, *brujasi*, larves, PEYERIMHOFF Paris Bul. soc. ent. **1906** (109-118, 162).

Antaretia subamaroides f. 1, *racovitzae*, figs. 3, 5 and 7, pl. i, ROUSSEAU (21) Résult. Belgica Zool.

Anthia esikii (164), *oberthuri* (165), spp. n., Africa, *pilosa* subsp. n. (165), OBST, Bruxelles Ann. Soc. ent. Belgique **50**. — *A. alvesi* (165), *bennigseni* (164), spp. n., Africa, STERNBERG D. ent. Zs. Berlin **1906**. — *A. thoracica* Fabr. subsp. n. *lukulediensis*, *decemguttata* L. var. n. *punctulata*,

burchelli Hope var. n. *nuda*, *petersi* Klug var. n. *maculata*, *homoplata* Leg. var. n. *grandis*, STERNBERG T.c. (166-170).—*A. oberthueri* subsp. n. *nyassica*; *bouvieri*, *lesnei*, Congo, *obsti* Dahomé, *senegalensis* Senegal, *mirabilis* Congo, spp. n., STERNBERG T.c. (453-458).

Asmerinx cyrtops, *potanini*, spp. n. China, TSCHITSCHÉRINE St. Peterburg Hor. Soc. Ent. Ross. **37** (247-292).

Badister fenestratus sp. n. Semiretschje-Gebiet, SEMENOV Rev. russ. ent. **6** (3-4).

Bembidium vodozi Corsica sp. n. (14), *decorum caraffae* subsp. n. (15), DEVILLE Cat. Col. Corse.—*B. (Plataphus) lenense* (28), *B. (Peryphus) submaculatum* (31), *intermedium* (32), Lena Valley, POPPIUS Öfvers. F. Vet. Soc. **48**, spp. n.—*B. (Peryphus) argacicola* Asia minor, GANGLBAUER, Wien Ann. Hofmus, **20**, sp. n.

Bradycellus ganglbaueri Apfb., systematische Stellung, MÜLLER Entomol. Ztg. Wien **25** (150).

Broscominus nom. n. für *Pseudobroseus*, SEMENOV Rev. russ. ent. **6** (19-20).

Calathus albanicus sp. n., APFELBECK Wien SitzBer. Ak. Wiss. **115** Abt. I. (1666).

Carabus: Carabologische Mitteilungen, SOKOLÁŘ Insektenbörse Leipzig **28** 1906 (199-200).—*Carabus* and *Calosoma*, descriptions of larvae, LAPOUGE Rennes Bul. Soc. Sci. med. **14** (273-293), and **15** (70-91), and Trav. Univ. Rennes **4** (325-345).—*Carabus*, table of varr., DE LAPOUGE Echange **22** 1906 (5-6, 13-14).—*C. coriaceus mediterraneus* n. subsp., *C. morbillosus bruttianus* n. subsp., BORN Insektenbörse Leipzig **23** (203-204, 207).—*C. arcensis* var. n. *sachalinensis*, LAPOUGE (383), Bull. Mus. Paris **12**.—*C. arcensis* and *aeruginosus*, Siberian varr., LAPOUGE (383) Bul. Mus. Paris 1906.—*C. granulatus* var. n. *lenensis*, *conciliatus* var. n. *borealis* (16), Öfvers. F. Vet. Soc. **48** No. 3.—*C. Morphocarabus* ungarische Arten, varr. n., CSIKI Ann. Hist.-Nat. Mus. Nat. Hung. **4**, (214-262).—*C. monilis*, BORN Insektenbörse Leipzig **23** (151-152, 156, 158-159).—*C. splendens* Fabr. und seine Formen, BORN Insektenbörse Leipzig **23** (3-4).—*C. hampei* var. n. *mchelyanus*

(175), CSIKI Rovart L. **13**.—*C. menetrixi* Humm, Südrussland; Lebenswiese, OLSUFIEV Rev. Russ. ent., **6** (49-51).—*C. glabratus cannabalis*, WANACH (235) Berliner ent. Zs. **50**.—*C. (Diocarabus) polaris* S.W. Siberia, POPPIUS (303) St. Peterburg Ann. Mus. Zool. Ac. Sci. **10**, sp. n.—*C. (Apotomopterus) kouanti* sp. n. Yunnan (215), *C. protenes* Bates var. *kouanping* nov. var. (217), MAINDRON Paris Bull. Soc. ent. **1906**.

Catascopus perignitus Sumatra, MAINDRON (152) Paris Bull. Soc. ent. **1906**, sp. n.

Cillenius lateralis var. n. *bedeli*, NICOLAS (13) Echange **22**.

Clivina impressifrons, WEBSTER Washington D.C. Cir. U. S. Dept. Agric. Bur. Ent. No. **78** (1-5).

Colpodes albertisi Nouvelle Guinée, MAINDRON (24) Paris Bull. Soc. entom. **1906**, sp. n.

Coptolabrus pustulifer Lucas var. *rectiperlatus* n. var., MAINDRON (225) T.c.

Cryobius monograph (1-280); *reyae* (39), *herzi* (11), *amurensis* (44), *czekanowskii* (46), *tungusiensis* (50), Siberia, *subnitidulus* Kadjak isld. (62), *jacobsoni* (67) Siberia, *holmbergi* N.W. America (70), *insulicola* Kurile islds. (81), *ineognitus* N.W. America (91), *argutoriformis* (92), *macrothorax* (94), Arct. Siberia, *pseudostuebergi* N.E. Siberia (106), *maklini* Jenisei (113), *alaskensis* Alaska (116), *lamuticus* (135), *parviceps* (137), *kannensis* (143), N. Russia, *longipes* (146), *burjatius* (173), *macrophthalmus* (175), *carbo* (182), *pacificus* (184), *nigripalpis* (187), Siberia; spp. n., POPPIUS Helsingfors Acta Soc. Fauna Fl. Fenn. **28** No. 5.

Deltomerus werneri sp. n. Kaukasus, REITTER Entomol. Ztg. Wien **25** (31).

Desbordesius nom. n. pro *Pselaphoxys*. Tschit. 1897, MAINDRON (252) Paris Bull. Soc. ent. **1906**.

Diachromus and other *Carabidae*, migration at Angiers, BOUVET Feuille jeunes natural. Paris **36** (13).

Discoptera komarovi, Lebensweise, FAUSSEK St. Peterburg Zap. Russ. Geogr. Obsč. **27** 2.

Dromius cordicollis Vorbg., VORBRINGER D. ent. Zs. **1906** (171-

472).—*D. cordaticollis* Vorbr. Beschreibung, REITTER Entomol. Ztg. Wien **25** (140).

Dyschirius, fleischeri, tensicollis, hauseri, scriptifrons, bacillus, Synonymie, GANGLBAUER Entomol. Ztg. Wien **25** (265–266).

Eccoptoptera roeschkei Usambara (170) **sp. n.**, *E. cupricollis* Chaud. subsp. n. *altiaudi* (171), STERNBERG D. ent. Zs. Berlin **1906**.

Euproctus baeri Peruvia, MAINDRON (200) Paris Ann. Soc. ent. **75**, **sp. n.**

Peroniides of France and Corsica, pt. 1, DESBROCHERS (81–194) Frelon **14**.

Fouquetius nom. n. pro *Holconotus* Schm. Goeb. nom. nud. 1846, MAINDRON (252) Paris Bull. Soc. ent. **1906**.

Harpalus potanini, sericatus spp. n., China, *tridens* var. n. *singularis*, TSCHITSCHÉRINE St. Petersburg Hor. Soc. Ent. Russ. **37** (247–292).—*H. (Lasioharpalus) olenini* (57), *H. (Amblystus?) punctibasis* (60), *torridiformis* (62). Lena Valley, POPPIUS Öfvers. F. Vet. Soc. **48** No. 3, **spp. n.**

Laemostenus cavicola varr., var. n. *sinjensis*, Dalmatien, MÜLLER Entomol. Ztg. Wien **25** (217–220).

Lasiochera coromandelica (75), *malabarica* (76), India, MAINDRON Paris Bull. Soc. entom. **1906**, **spp. n.**

Leistus tschitscherini sp. n. Tjanschan, SEMENOV Rev. russ. ent. **6** (3–4).

Masoreus orbipennis Tunisie, BEDEL Cat. rais. Tunisie, **sp. n.**

Mecochloenius nom. n. pro *Vertagus* Dej. 1831, MAINDRON Paris Bull. Soc. ent. **1906**.

Megodontus germari Sturm., *M. violaceus* var. *sarinicus* n., HAMMER D. ent. Zs. Berlin **1906** (384).

Menidius gounellei (198), *rufoeruciatatus* (199), Brasilia, MAINDRON Paris Ann. Soc. ent. **75**, **spp. n.**

Molops merditanus (1664), *sturanyi* (1665), Albanien, **spp. n.**, APFELBECK Wien SitzBer. Ak. Wiss. **115** Abt. I.

Mormolyce; account of, ROUSSEAU Gen. ins. fasc. 40, 5 pp., 1 pl.

Nebria merditana (1661), *sturanyi* (1662), Nordalbanien, **spp. n.**, APFEL-

BECK Wien SitzBer. Ak. Wiss. **115** Abt. I.—*N. latiuscula sp. n.*, *parvicollis* var. n. *5-punctata*, (19), POPPIUS Öfvers. F. Vet. Soc. **48** No. 3. —*N. pulchrior* Yun-nan, MAINDRON (226) Paris Bull. Soc. ent. **1906**, **sp. n.** —*N. bourderyi* Yun-nan, MAINDRON (250) T.c., **sp. n.**

Nomius pygmaeus, MAINDRON T.c. (280–282).

Nothochalybe nom. n., pro *Amoeboea* Péring. 1896, MAINDRON (251) T.c.

Nothodaptus nom. n., pro *Agriodius* Péring. 1896, MAINDRON (252) T.c.

Notiophilus; the N. American; *simulator* (86), *nemoralis* (88), **spp. n.**, N. America, FALL Psyche **13**.

N. melanophthalmus Schloss. identisch mit *biguttatus* Fabr., CSIKI Ann. Hist.-Nat. Mus. Nat. Hung. (619) **7**.

Omphreus albanicus Albania **sp. n.**, APFELBECK Wien SitzBer. Ak. Wiss. **115** Abt. I. (1666).

Onota longipennis (200), *vitticollis, limbipennis*, (201), Brasilia, MAINDRON Paris Ann. Soc. ent. **75**, **spp. n.**

Oreodieastes gounellei Brasilia, MAINDRON (195) T.c., **sp. n.**

Otoglossa lagenula Brasilia, MAINDRON (202) T.c., **sp. n.**

Paraleirides subgen. n. vide *Amara*.

Parastrigia nom. n., pro *Rhathymus* Dej. (83), MAINDRON Paris Bull. Soc. ent. **1906**.

Pheropsophus (*Stenaptinus* subg. n.), *kriehna* Assam, MAINDRON (15) T.c., **sp. n.**

Phloeotherates procerus Putz., MAINDRON T.c. (251).—*P. luctuosus* Brasilia, *stricticollis* Peruvia, MAINDRON (196) Paris Ann. Soc. ent. **75**, **spp. n.**

Platyderus languidus = (*Sphodrus parumpunctatus* Fairm.), BEDEL (91) Paris Bull. Soc. ent. **1906**.—*P. filiformis, insignitus*, Tunisie, BEDEL Cat. rais. Tunisie, **spp. n.**

Platynus (Europhilus) aldanicus, Lena Valley, POPPIUS (37) Öfvers. F. Vet. Soc. **48** No. 3, **sp. n.**

Poecilus angusticollis Lena Valley, POPPIUS (37) T.c., **sp. n.**

Pogonus angusticollis sp. n. Transkaspien, POPPIUS Entomol. Ztg. Wien **25** (213).

Procrustes coriaceus larva, PLANET (11 and 12) Naturaliste 1906.

Pseudobrosicus cf. *Broscominus*.

Pseudoeryobius merged in *Eryobius*, POPPIUS (7) Helsingfors Acta Soc. Fauna Fl. Fenn. **28** No. 5.

Pseudaptinus Cast. (= *Diaphorus* Dej.), MAINDRON (252) Paris Bul. Soc. ent. **1906**.

Pterostichus (*Tapinopterus* *doehii*, *latifianus*, Albanien, (1663), spp. n. APFELBECK Wien SitzBer. Ak. Wiss. **115** Abt. I.—*P. (Derulus) jacutorum* (1), with var. *angustior* (3), *algidus* (4), spp. n., Siberia; *samojedorum* var. n. *gracilentia* (4); POPPIUS Helsingfors Öfvers. F. Vet. Soc. **47** No. 3.—*P. braudoi* (43), *lenensis* (41), Lena Valley, POPPIUS Öfvers. F. Vet. Soc. **48** No. 3, spp. n.—*P. pfizenmayeri* (201), *P. (Petrophilus) submetallescens* (203), *montiragus* (205), *P. (Pseudoeryobius) herzi* (207), *lamuticus* (208), spp. n. E. Siberia, *stuxbergi* subsp. n. *repandus* (208); POPPIUS St. Petersburg Ann. Mus. Zool. Ac. Sci. **10**.—*P. (Argutor) orechulus* Reitt. sp. n. Altai, POPPIUS Entomol. Ztg. Wien **25** (214).—*P. korbi sublaericollis* var. n., GANGLBAUER (272) Wien Ann. Hofmus. **20**.—*P. impressicollis* var. n. *fairmairei* (101), *glacialis* var. n. *ambigenus* (119), *phaeopus* var. n. *pedemontanus* (174); DESBROCHERS Frelon **14**.—*P. armenus* Fald. var. n. *tuberculifer* Kankasus, KOENIG Entomol. Ztg. Wien **25** (23).

Scarites lucida, Beimbildung u. Lebensweise, FAUSSEK St. Petersburg Zap. Russ. Geogr. Obsč. **27**.

Sphodrus parumstriatus vide *Platyderus languidus*.—*S. (Taphoxenus) cerberus* Asia Minor, GANGLBAUER (271) Wien Ann. Hofmus **20**, sp. n.

Stenaptinus subg. n. v. *Pheropsophus*.

Tetragonoderus extremus Tunisie, BEDEL Cat. rais. Tunisie, sp. n.

Trechus dayreni LECTOURE, DE SAULCY (188) Paris Bul. Soc. ent. **1906**, sp. n.—*Trechus (Anophthalmus) crebus* Untersteiermark (257), *buda-hercegovinensis* Herzegovina (259), spp. n., KRAUSS Entomol. Ztg. Wien **25**.—*T. wienekei* pl. i, figs. 2 and 6, *antareticus*

Dej. f. 4, ROUSSEAU (20) Résult. Belgica. —*T. merditanus* sp. n. Albanien, APFELBECK Wien SitzBer. Ak. Wiss. **115** Abt. I. (1663).

Zabrus ganglbaueri sp. n. Albanien, APFELBECK Wien SitzBer. D. Ak. Wiss. **115** Abt. I. (1667).—*Z. pentheri* (272), *iconiensis* (273), Asia Minor, GANGLBAUER Wien Ann. Hofmus **20**, spp. n.

The following entries have appeared previously in the Zoological Record.

(*Aeroleistus* n. subgen, *Leistus*, REITTER, Entomol. Ztg. Wien, **24**, 1905, (214).)

(*Anisodactylus crongeti* sp. n., PUEL, Paris, Bul. Soc. ent., **1904**, (160).)

(*Anophthalmus hilfi* sp. n., Herzegovina, REITTER, Entomol. Ztg., Wien, **22**, 1903, (212).—*A. ottonis*, Bosnien, REITTER, op. cit., **24**, 1905, (311), sp. n.—*A. bilimeki* subsp. n. *tergestinus*, Nordistrien, Küstenland, MÜLLER, Entomol. Ztg., Wien, **24**, 1905, (32).)

(*Aristodoenus* gen. n. (= *Macrotelus* Chaudoir), MAINDRON, Paris, Bul. soc. ent., **1904**).

(*Calodromius* subgen. n. *Dromius*, REITTER, Entomol. Ztg., Wien, **24**, 1905, (230).)

(*Carenidium purpuratum*, Winton, Queensland, SLOANE, Sydney, N.S.W., Proc. Linn. Soc., **30**, (128), sp. n.)

(*Carenium concinnum*, East Murchison, West Australia, SLOANE, T.C. (117), sp. n.)

(*Clirina doddi* (715), *crebifrons* (717), *atridentis* (718), Townsville, Queensland, *nigra*, Mulwala, (722), *dingo*, Cairns, (724), *pectonoda*, Townsville, (725), *misella* (727), *pallidiceps*, Mulwala, (728), *cylindripennis*, West Australia, (729), *robusta*, Gosford, (731), *obliquicollis*, West Australia, (732), spp. n.; *oripennis* nom. mut., (= *C. oripennis* Sloane not *C. oripennis* Chaudoir), (733); SLOANE, T.C.)

(*Crepidopterus favrei*, MAINDRON, (264), Paris, Bul. soc. ent., **1904**, sp. n.)

(*Dromiolus* subgen. n. *Dromius*, REITTER, Entomol. Ztg., Wien, **24**, 1905, (230).)

(*Dromius*, Artübersicht, *angustus bescidicus* var. n., *strigiceps* nom.

n., für *strigifrons* Reitt., *stolzi*, Kroatien, Turkestan, (239), sp. n., *D. conicipennis*, FAUVEL, Rev. ent., Caen, **24**, 1905, sp. n.)

(*Dyschirius fleischeri*, DEVILLE, Paris, Bul. soc. ent., **1904**, (29-30), sp. n.)

(*Euleistulus* subgen. n. *Leistus*, REITTER, Entomol. Ztg, Wien, **24**, 1905, (214).)

(*Euryalleidos* nom. n., MAINDRON, Paris, Bul. soc. ent., **1905**.)

(*Forcipator* gen. n. (*Oxytonus* Latr.), MAINDRON, Op. cit., **1904**.)

(*Glycia rufolimbata*, MAINDRON, Paris, Ann. soc. ent., **74**, sp. n.)

(*Gynandromorphus* (*Morphogynandrus* subgen. n.) *peyrossi*, Syrie, CARRET, Paris, Bul. soc. ent., **1905**, sp. n.)

(*Harpalini*, Systematik, REITTER, Entomol. Ztg, Wien, **20**, (109-113).)

(*Hypolithus incertus*, MAINDRON, Paris, Ann. soc. ent., **72**, sp. n.)

(*Lachnolebia* nom. n., MAINDRON, Paris, Bul. soc. ent., **1905**.)

(*Laemosthenes cavicola* subsp. n. *romualdi*, Südtirol, MÜLLER, Entomol. Ztg., Wien, **24**, 1905, (32).)

(*Leistophorus* subgen. n., *Leistus*, REITTER, Entomol. Ztg, Wien, **24**, 1905, (213).)

(*Leistus*, Artübersicht, REITTER, T.c. (209-225); *sutomorensis*, Süddalmatien (215), *munjanasti*, Arragonien (217), *danieli*, Dalmatien (221), spp. n., id., T.c.)

(*Licinoderus* gen. n., *chobauti* sp. n., Pyrénées, SAINTE CLAIRE DEVILLE, Paris, Bul. soc. ent., **1905**.)

(*Lioscarites* gen. n. (= *Holcogaster* Chaud.), MAINDRON, Paris, Bul. soc. ent., **1904**.)

(*Metabletus xanthomus*, MAINDRON, Paris, Ann. soc. ent., **74**, sp. n.)

(*Manodromius* subgen. n., *Dromius*, REITTER, Entomol. Ztg, Wien, **24**, 1905, (229-239).)

(*Odontocarus propagatur*, Buchar, REITTER, Entomol. Ztg, Wien, **20**, (109-112).)

(*Oreodicastes* gen. n., MAINDRON, Paris, Bul. soc. ent., **1905**.)

(*Philoscaphus bicostatus*, Townville, SLOANE, Sydney, N.S.W., Proc. Linn. Soc., **30**, (114).)

(*Platysphyrus* gen. n., *P. tibialis* sp. n. (711), SLOANE, T.c. (710).)

(*Poecilothois* gen. n., MAINDRON, Paris, Bul. soc. ent., **1905**.)

(*Styphromerus tellinii*, MAINDRON, Paris, Ann. soc. ent., **74**, sp. n.)

(*Teratidium convexum*, Cooktown, *frenchi*, Roebuck Bay, West Australia, SLOANE, Sydney, N.S.W., Proc. Linn. Soc., **30**, (134).)

(*Tachys netuschili* Unterägypten, REITTER, Entomol. Ztg, Wien, **22**, 1903, (173), sp. n.)

(*Trechus* (*Anophthalmus*) *diniensis* sp. n., *diniensis cantus* subsp. n., PEYERIMHOFF, Paris, Bul. soc. ent., **1904**.—*T.* (*Anophthalmus*) *pueli*, CHOBOUT, Paris, Bul. soc. ent., **1904**, (212-214), sp. n.—*T.* (*Anophthalmus*) *roberti*, *escalerae*, ABEILLE DE PERRIN, Paris, Bull. Soc. ent., spp. n.—*T.* (*Anophthalmus*) *jeanneti* ABEILLE DE PERRIN, Paris, Bul. soc. ent., **1905**, sp. n.—*T.* (*Anophthalmus*) *vulcanus* sp. n., *orpheus* var. *subparallelus* var. n., ABEILLE DE PERRIN, Paris, Bul. Soc. ent., **1904**, (198, 199).)

(*Trichocarenium castelnani*, Roebuck Bay, SLOANE, Sydney, N.S.W., Proc. Linn. Soc., **30**, (123), sp. n. [Carabidae])

HALIPLIDAE.

Peltodytes speratus Kavirondo, RÉGIMBART (235) Paris Ann. Soc. ent. **75**, sp. n.

(*Haliplus laminatus* var. n. *punctulatus*, Oesterreich, PENECKE Entomol. Ztg. Wien **20** 1901 (11-21).)

DYTISCIDAE.

Ampoule rectale, BORDAS Paris. C.-R. soc. biol. **61** 1906 (503-505).

Agabus (*Gaurodytes*) *aeneus* (18), *dubiosus* (20), E. Siberia, spp. n.; *A. femoralis* var. n. *pallens* (22); POPPIUS Helsingfors Öfvers. F. vet. Soc. **47** No. 16.—*A. affinis*, *unquicularis* distinguished, BROWNE (273-275) plates xii and xiii Ent. Rec. 1906.—*A. fulvaster*, *luteaster* spp. n., Südost-Russland und Nordost-Sibirien, ZAITZEV Rev. russ. ent. **6** (26-28).—*A.* (*Gaurodytes*) *gelidus* Finland, SAHLBERG (15) Helsingfors Medd. Soc. Fauna **32**, sp. n.

Anisomera clausi, larva, Mjöberg (4-6) pl. i f. 1 Uppsala Arkiv. Zool. 3 No. 13.

Bidessus brevistriga Kavirondo, RÉGIMBART (245) Paris Ann. Soc. ent. 75, sp. n.

Canthidrus alluandi Nairobi, RÉGIMBART (247) T.c., sp. n.

Clypeodytes neumanni Afrique or., RÉGIMBART (242) T.c., sp. n.

Copelatus aethiopicus (250), *atrosulcatus* (251), Afrique or., RÉGIMBART T.c., spp. n.

Dytiscus punctulatus, early stages, Sopp (50-57) Rep. Lancash. ent. Soc. 1905. — *D. marginalis*, Lebensweise, WANKE Allg. Fischereiztg. München 31 (310, 311).

Herophydrus variabilis Kijabé, RÉGIMBART (238) Paris Ann. Soc. ent. 75, sp. n.

Hydaticus laeriusculus sp. n. Mandshurei, POPPIUS Rev. russ. ent. 6 (58, 59). — *H. rugosus* E. Siberia, POPPIUS (23) Helsingfors Öfvers. F. vet. Soc. 47 No. 16, sp. n.

Hydroporus (*Nebrioporus* subg. n.) *kilimandjarensis* Africa, RÉGIMBART (236) Paris Ann. Soc. ent. 75, sp. n. — *H. nobilis* (10), *tomentosus* (12), *punctatissimus* (14), *lencensis* (15), E. Siberia, POPPIUS Helsingfors Öfvers. F. vet. Soc. 47 No. 16, spp. n. — *H. (Deronectes) peyerimhoffi* Algérie, RÉGIMBART (204) Paris Bul. soc. ent. 1906, sp. n.

Hyphydrus maculiceps, *variolosus*, (239), *nigrovittatus* (240), Afrique or., RÉGIMBART Paris Ann. soc. ent. 75, spp. n.

Laccophilus pilularis (247), *flavoculus*, *productus*, (249), RÉGIMBART T.c., spp. n.

Macrodytes delictus sp. n. Ost-Sibirien, ZAITZEV Rev. russ. ent. 6 (26-28).

Nebrioporus subg. n. vide *Hydroporus*.

Platyneetes decempunctatus var., RÉGIMBART (21) Wichmann Nova Guinea 5.

Rhantus pulcherrimus in sea-water, CHILTON (63) Wellington Trans. N. Zeal. Inst. 38.

Sietitia balsetensis Abeille, et la faune aquatique hypogée, JEANNEL Paris Bul. soc. ent. 1906 (98-101) av. fig.

Yola frontalis, *dilatata*, Afrique or., RÉGIMBART (243) Paris Ann. soc. ent. 75, spp. n.

(*Hydroporus normandi*, RÉGIMBART, Paris, Bul. soc. ent., 1903, (254-255), sp. n.)

(*Dytiscus punctulatus* Fabr. var. n. *expectata*, PEYERIMHOFF, Paris, Bul. soc. ent., 1905.)

(*Sietitia* gen. n., *balsetensis* sp. n., ABEILLE DE PERRIN, Paris, Bul. soc. ent., 1904.)

(Régimbart, Maurice. Note sur le *Sietitia balsetensis* Ab., Paris, Bul. soc. ent., 1905, (252-254).)

GYRINIDAE.

Aulonogyrus flaviventris, *hypoxanthus*, *epipleuricus*. Afrique or., RÉGIMBART (253) Paris Ann. soc. ent. 75, spp. n.

Dineutes tetracanthus New Guinea, RÉGIMBART (21) Wichmann Nova Guinea 5, sp. n.

†*Gyrinus sculpturatus*, Sweden, glacial, Mjöberg (233) f. 1 Stockholm Geol. För. Förh. 27, sp. n.

Orectogyrus laticostis (254), *rugulifer* (255), *feminalis* (257), *coptogynus*, *erosus*, (258), spp. n.; *leroyi* Rég. varr. n. *nairobensis taretensis* (256), RÉGIMBART Paris Ann. soc. ent. 75.

HYDROPHILIDAE.

Berosus engelharti sp. n. Mendoza Argentina, JENSEN-HAARUP Kjöbenhavn Ent. Medd. 3 (50-51). — *B. tetracanthus*, *gracilispina*, (264), *subglobosus* (265), *corrugatus* (266), Afrique or., RÉGIMBART Paris Ann. soc. ent. 75, spp. n.

Cereyon limbicollis Kilimandjaro, RÉGIMBART (270) T.c., sp. n. — *C. littoralis*, early stages, Mjöberg (138) figs. 1 and 2 Zs. wiss. Insektenbiol. 2.

Coelostoma transeasicum sp. n. Transcaspien; *orbiculare* varr. n. *puncticollis*, *subacereum* and *nigrinus*; REITTER Entomol. Ztg. Wien, 25, (32).

Cyclonotum rubrocinctum Kilimandjaro, RÉGIMBART (269) Paris Ann. soc. ent. 75, sp. n.

Globaria simplex (268), *seriata* (269), Afrique or., RÉGIMBART T.c., **spp. n.**

Helochares melanophthalmus Reiche, varr. n. *notaticollis* and *curtus* (260), *laeviusculus* Kavirondo **sp. n.** (261); RÉGIMBART T.c.

Helopeltina **nom. n.** for *Helopeltis*, COCKERELL (240) Ent. News **17**.

Hydraena; synopsis des, du nord de l'Afrique, SAINTE-CLAIRE DEVILLE Abeille **30** (283-287).—*H. brevipalpis* (276), *alluandi*, *kilimandjarensis*, (277), Afrique or., RÉGIMBART Paris Ann. Soc. ent. **75**, **spp. n.**

Hydrochus albicans Afrique or., RÉGIMBART (273) T.c., **sp. n.**

Hydrophilus aterrimus, eggs, larva, embryology, MEGUŠAR Arch. Entw.Mech. Leipzig **22** (141-148).—*H.*, female sexual organs, correction, MEGUŠAR Zool. Anz. **30** (494).

Hydrous (Pagipherus) picesbergeni Salt Range (40), *H. sternitalis* Osturkestan (41), **spp. n.**, REITTER Entomol. Ztg. Wien **25**.

Megasternum brumneum Kilimandjaro, RÉGIMBART (270) Paris Ann. Soc. ent. **75**, **sp. n.**

Ochthebius strangulatus (274), *tenuipunctus* (275), *rugulosus* (276), Afrique or., RÉGIMBART T.c., **spp. n.**

Philhydrus alluandi Afrique or., RÉGIMBART (262) T.c., **sp. n.**

Spercheus crenaticollis (271), *humeralis* (272), Afrique or., RÉGIMBART T.c., **spp. n.**

Sphaeridium obscurum Afrique or., RÉGIMBART (271) T.c., **sp. n.**

Volvulus compressus (267), *obsoletus*, *ellipticus* (268), Afrique or., RÉGIMBART T.c., **spp. n.**

STAPHYLINIDAE.

Agerodes coelestinus Venezuela (324), *punctipennis* (325), *puncticollis* (326), Peru, BERNHAUER Wien Verh. zool.-bot. Ges. 1906, **spp. n.**

Aleochara **gen. n.** near *Aleochara* (145), *planiventris* **sp. n.** San Francisco (146), CASEY St. Louis, Tr. Ac. Sci. **16**.

Aleochara densissima (345), *densiventris* (346), *soror*, *sparsicollis*, (347), **spp. n.**, Californien, BERNHAUER D. ent. Zs. 1906.

Aleochara gallo-rhémanus, (tableau traduit de l'allemand et abrégé des *Aleochara* du Dr. Max Bernhaner), DUBOIS Echange, **22**, (53-55, etc.—*A. pernigra* **sp. n.** Kaschmir, SCHUBERT D. ent. Zs. 1906 (378).—*A. texana* (137), *fusicornis*, *sternalis*, (138), *algonquina* (139), *medialis* (140), *tahoensis*, *kansana*, *pleuralis*, 141), *ellipsicollis*, *americana*, *postpieta*, (142), *montanica*, *collusor*, (143), N. America, CASEY St. Louis Tr. Ac. Sci. **16**, **spp. n.**

Aleuonota fenyesi **sp. n.** Californien, BERNHAUER D. ent. Zs. 1906 (337).

Amanota **gen. n.** near *Tachyusa* (189), *capensis* **sp. n.** S. Africa (190), CASEY St. Louis Tr. Ac. Sci. **16**.

Amblopusa borealis Queen Charlotte isld., CASEY (355) T.c., **sp. n.**

Amenusa **gen. n.** near *Placusa*, *angustula* **sp. n.** California, CASEY (349) T.c.

Anepsiota terminalis Brit. Columbia, CASEY (340) T.c., **sp. n.**

Anisolinus bicolor Rhodesia **sp. n.**, BERNHAUER D. ent. Zs. Berlin 1906 (189).

Antimerus punctipennis N.S. Wales, LEA (195) pl. xviii f. 1 Sydney N.S.W. Proc. Linn. Soc. **31**, **sp. n.**

Apalonia **gen. n.** near *Myrmecdonia*, (323), *seticornis* **sp. n.** Florida (324), CASEY St. Louis Tr. Ac. Sci. **16**.

Aracoenemis lauta Panama, CASEY (360) T.c., **sp. n.**

Astilbus cupulifer Biafra, FAUVEL (291) Madrid, Mem. Soc. esp. Hist. Nat. **1**, **sp. n.**

Atemeles and *Lomechusa*, variation etc., WASMANN (568-571) Biol. Centralbl. **26**.—*A.*, hosts; *A. pratensoides*, habits; *A. paradoxus* var. n. *nigricans* (3); WASMANN Zs. wiss. Insektenbiol. **2** (1-12, 37-43).

Atheta (Meotica) dechorognati Alger, DE PEYERIMHOFF (37) Paris Bull. Soc. entom. 1906, **sp. n.**—*A. (Metaxy) shurawskyi* Russia, POPPIUS (311) St. Peterburg Ann. Mus. Zool. Ac. Sci. **10**, **sp. n.**—*A. occidentalis*, *pasadenae*, (338), *sexualis* (339), *delicata* (340), *luctifera* (341), *dentata* (342), **spp. n.**, Californien, BERNHAUER D. ent. Zs. 1906.—*A. piceata* **sp. n.** Kaschmir, SCHUBERT D. ent. Zs. 1906 (378).—*A. silesiaca* **sp. n.**

Germany, GERHARDT, D. ent. Zs. Berlin (239-240), and Zs. Ent. Breslau **31** (10-12).

Athetola **gen. n.** for pt. of *Anepsiota*, *atirentris* **sp. n.** Vancouver, CASEY (337) St. Louis Tr. Ac. Sci. **16**.

Atopocentrum **gen. n.** near *Philonthus* (327), *mirabile* **sp. n.** Peru (329) BERNHAUER Wien Verh. zool.-bot. Ges. 1906.

Bamona carolinæ (355), *tenuissima* (356), N. America, CASEY St. Louis Tr. Ac. Sci. **16**, **spp. n.**

Baptolinus americanus (426), *quadripennis* (427), *fraternus* (428), N. America, CASEY T.c., **spp. n.**

Baryodma robustula (152), *glenorana*, *avidula*, *rotundicollis*, (153), *acomana*, *mannerheimi*, (154), *insulana*, *defecta*, (155), *ajlluens* (156), *imbricata*, *idonea*, *salicola*, (157), *densiventris*, *obsolescens*, (158), *recta* (159), *nitidicollis*, *nanella*, *innocna*, *deserticola*, (160), *minuta* (161), *suffusa*, *acuminata*, (162), N. America, *composita* Mexico (164), CASEY St. Louis Tr. Ac. Sci. **16**, **spp. n.**—*B. bisolata* S. Africa, CASEY (320) T.c., **sp. n.**

Belonuchus angusticollis Peru (330), *moritzi* Venezuela, *ganglbaueri* Bolivia, (331), *longiceps* (332), *frater*, *paradoxus*, (333), *skalitziyi* (334), *vulneratus* (335), *asperatus* (336), Peru, BERNHAUER Wien Verh. zool.-bot. Ges. 1906, **spp. n.**—*B. semitestaceus* **sp. n.** Usambara, SCHUBERT D. ent. Zs. **1906** (374).

Bledius gracilicornis Eur. Russia, POPPIUS (313) St. Peterburg Ann. Mus. zool. Ac. Sci. **10**, **sp. n.**

Bolitobius distinctus **sp. n.** Kashmir, SCHUBERT D. ent. Zs. **1906** (381).

Calochara **gen. n.** near *Aleochara*, (119), *rubripennis* **sp. n.** California (150), CASEY St. Louis Tr. Ac. Sci. **16**.

Chilopora americana (306), *fuliginosa* (307), N. America, CASEY T.c., **spp. n.**

Chitalia intricata (231), *granulosa*, *illustris*, (235), *canadensis*, *nigrescens*, (236), *floridana* (237), N. America, CASEY T.c., **spp. n.**

Chlorotusa **gen. n.** near *Myrmedonia*, *megalops* **sp. n.** Texas, CASEY (324) T.c.

Cryptobium opacum (186), *puncticeps* (185), **spp. n.**, Rhodesia, BERNHAUER D. ent. Zs. Berlin **1906**.

Ctenochara **gen. n.** for *Alcochara clavicornis* Redt., CASEY (134) St. Louis Tr. Ac. Sci. **16**.

Dabra termitophila (215), *convexicollis* (216), Australia, LEA Sydney N.S.W. Proc. Linn. Soc. **31**, **spp. n.**

Dasyglossa prospera Er. = (*Oxygypoda congruens* Cas.), CASEY (318) St. Louis Tr. Ac. Sci. **16**.

Dialycera bimaculata Asia Minor (578), *minuta* Syria (582), LUZE Wien Verh. Zool.-bot. Ges. 1906, **spp. n.**

Dianusa **gen. n.** near *Silusa*, *pasadenæ* **sp. n.** California, CASEY (346) St. Louis Tr. Ac. Sci. **16**.

Dinarda: the variation, WASMANN (565-568) Biol. Centralbl. **26**.

Dinolinus **gen. n.** for *Xantholinus chalybeus* and *rutilus*, CASEY (373) St. Louis Tr. Ac. Sci. **16**.

Diochus brevripennis (431), *thoracicus*, *pallidiceps*, (432), N. America, *astutus* S. Africa (433), CASEY T.c., **spp. n.**

Diplopsis lacripennis Paraguay, BERNHAUER (323) Wien Verh. zool.-bot. Ges. 1906, **sp. n.**

Ditropalia **gen. n.** for *Bolitochara bella* etc., CASEY (263) St. Louis Tr. Ac. Sci. **16**.

Drusilla cavicollis Alaska, CASEY (322) T.c., **sp. n.**

Drusillota **gen. n.** near *Drusilla*, *polita* **sp. n.** S. Africa, CASEY (321) T.c.

Echiochara **gen. n.** for *Rheochara lucifuga* Cas., CASEY (177) T.c.

Emplenota quadriser, *trilimbata*, California, CASEY (175) St. Louis Tr. Ac. Sci. **16**, **spp. n.**

Ephelinus **nom. n.** for *Ephelis* Fauv., COCKERELL (241) Ent. News **17**.

Eucharina **gen. n.** near *Baryodma* (165), *tibialis*, *rugosa*, (166), *debilicornis*, *cylindrella*, (167), **spp. n.**, N. America, including also *Aleochara sulcicollis* Mann., CASEY St. Louis Tr. Ac. Sci. **16**.

Eucryptusa **gen. n.** for *Silusa nanula* Cas., CASEY (345) T.c.

Euliusa **gen. n.** near *Gnypeta* (215), *majuscula*, *sparsella*, (217), *elsinorica*, *transversa*, (218), *mollis* (219), *pimalis*, *citrina*, (220), **spp. n.**, N. America, CASEY St. Louis Tr. Ac. Sci. **16**.

Eumierota **gen. n.** near *Gyrophaena* (280), *humeralis*, *texanella*, (282), *melania*, *pallidula*, *pinalica*, (283), N. America, *azteca* Mexico, *minutissima*, *atoma*, N. America, (284), *cornuta* Cuba (285), **spp. n.**, also *G. socia* Er. and *pumila* and *parvula* Shrp., CASEY T.c.

Euromota **gen. n.** near *Homalota*, *lucida* **sp. n.** Virginia, CASEY (338) T.c.

Eurygnemus **gen. n.** near *Xanthopygus* (190), *imperialis* **sp. n.** Cameroons (191), BERNHAUER D. ent. Zs. Berlin **1906**.

Eurynotida **gen. n.** near *Atheta*, *ornata*, (343), *arizonica* (344), **spp. n.** N. America, CASEY St. Louis Tr. Ac. Sci. **16**.

Falgaria *iowana*, *ithacana*, (247), *subsimilis*, *texana*, (248), *angulata* (249), N. America, CASEY T.c., **spp. n.**

Falagrioma **gen. n.** for *Falagria thoracica* Curt., CASEY (230) T.c.

Falagriota **gen. n.** near *Falagria* (256), *lucida*, *asperula*, *picina*, (257), *evanescentis*, *collaris*, (258), *parvipennis* (259), N. America, **spp. n.**, CASEY T.c.

Gastrisus nitidus Brazil **sp. n.**, BERNHAUER (198) D. ent. Zs. Berlin **1906**.

Gennadota **gen. n.** (308) for *Callicernus puberulus*, and *G. canadensis* **sp. n.** N. America (309), CASEY St. Louis Tr. Ac. Sci. **16**.

Goniusa **gen. n.** for *Euryusa obtusa* Lec., CASEY (348) T.c.

Gnypeta helenae, *deserticola*, (193), *punctulata*, *ventralis*, (194), *floridana*, *bockiana*, (195), *manitobae*, *brevicornis*, (196), *G. (Gnypetoma subg. n.) inerasata*, *leviceutris*, (198), *oregona*, *impresiceps*, (199), *curtipennis*, *abducens*, (201), *shastana* (202), N. America, CASEY T.c., **spp. n.**

Gnypetella **gen. n.** (214), *placidula* **sp. n.** California (215), CASEY T.c.

Gnypetoma **subg. n.** of *Gnypeta*, q.v., CASEY (202) T.c.

Gyrolhypnus infumatus, *bipartitus*, (388), *luteiventris* (389), *melanops* (390), *oregonus*, *protractus*, *mollinus*, (392),

gilvipennis (393), *macilentus*, *fragilis*, (394), *G. (Hypnogyra subg. n.) rernicatus*, *micans*, (395), N. America, CASEY T.c., **spp. n.**

Gyrophaena arator Biafra, FAUVEL (290) Madrid Mem. Soc. esp. Hist. Nat. **1**, **sp. n.**—*G. flavicornis* **sp. n.** Usambara, SCHUBERT D. ent. Zs. **1906** (373).—*G. permutaria* **sp. n.** Kaschmir, SCHUBERT, D. ent. Zs. **1906** (380).—*G. vitrina*, *flavicornis*, (291), *ntcana*, *gaudens*, (292), *monticola*, *pacifica*, (293), *lobata*, *involuta*, (294), *antennalis* and *insolens*, (295), *fusciollis*, *modesta*, *gilvicollis*, (296), *laurana*, *coniciventris*, (297), *genitiva*, *sculptipennis*, (298), *subpunctata*, *lacustris* and var. *inconspicua*, (299), *lactula*, *rhodana*, *fustifer*, (300), *centralis*, *perpolita*, (301), *tenebrosa*, *subnitens*, *compacta*, (302), *obesula*, *micans*, *egena*, (303), *exilis* (304), N. America, CASEY St. Louis Tr. Ac. Sci. **16**, **spp. n.**

Habrolinus **gen. n.** near *Leptacinus* (406), *tahoensis* **sp. n.** California (407), CASEY T.c.

Hesperolinus **gen. n.** near *Lithochla-rodes* (411), *bicolor* (413), *alticola*, *borealis*, *pomouae*, (414), *angustus*, *picus*, (415), **spp. n.**, N. America, CASEY T.c.

Heteropygus **subgen. n.** cf. *Lampropygus*.

Heterothops nigra, *praevia*, JOY (199) Ent. Mag. London **42**.

Homalinum crassicornae Australia, *parallelum* Tasmania, (212), *xanthorrhoeae* W. Australia (213), LEA Sydney N.S.W. Trans. Linn. Soc. **31**, **spp. n.**

Homalolinus atronitens Guatemala, CASEY (371) St. Louis Tr. Ac. Sci. **16**, **sp. n.**

Homalota orbata, GERHARDT Zs. Ent. **31** (13-14).—*H. orbata* and *fungi*, Id. D. ent. Zs. Berlin **1906** (463-464).

Homalotusa **gen. n.** near *Homalota*, *helenica*, (340), *tahoensis*, *fuscula*, (341), *pallida* (342), **spp. n.**, N. America, CASEY St. Louis Tr. Ac. Sci. **16**.

Hylota **gen. n.** near *Dasyglossa* (318), *ochracea* **sp. n.** New York (319), CASEY T.c.

Hyperomma pictipes (196) pl. xviii f. 2 Tasmania, *nigrum* W. Australia (197), LEA Sydney N.S.W. Proc. Linn. Soc. **31**, **spp. n.**

Hypnogyra **subg. n.** cf. *Gyrolhypnus*.

Hyptioma **gen. n.**, new tribe of *Xantholinini*, (361), *cubensis* **sp. n.** Havana, (362), CASEY St. Louis Tr. Ac. Sci. **16**.

Idiolinus **gen. n.** for *Xantholinus crassicornis* Hochh. CASEY (375) T.c.

Lampropygus skalitzkyi Peru, L. (**subgen. n.** *Heteropygus*) *giganteus* Brazil, **spp. n.**, BERNHAUER (195) D. ent. Zs. Berlin **1906**.

Lathrobium elongatum var. *n. nigrum*, Joy (271), Ent. Mag. London **42**.—*L. laevipenne*, W. F. SHARP (55) Ent. Mag. London **42**.

Lathrotropis caseyi **sp. n.** California, BLAISDELL (71) Ent. News **17**.

Latona montiragans Peru, BERNHAUER (323) Wien Verh. Zool.-bot. Ges. 1906, **sp. n.**

Leiolinus **gen. n.** *Xantholinini* (416), *utcanus*, *tarsalis*, **spp. n.**, N. America. (417), CASEY St. Louis Tr. Ac. Sci. **16**.

Leptacinodes **gen. n.** type *Leptacinus batychrus* Gyll. (401), *lustrans* **sp. n.** Colorado (403), *perexilis* Caucasus (404), **spp. n.**, CASEY T.c.

Leptacinus rubricollis N. America, CASEY (400) T.c., **sp. n.**

Leptagria **gen. n.** near *Falagria* (249), *perexilis* (250), *hudsonica* (251), **spp. n.**, N. America, CASEY T.c.

Leptopeltus **gen. n.** near *Anisolinus* (337), *netolitzkyi* (338), *montiragans* (339), Bolivia, **spp. n.**, also *Philonthus flavipennis* Er., BERNHAUER Wien Verh. Zool.-bot. Ges. 1906.

Leptusa tricolor, *canonica*, (351), *semirufa* (352), N. America, CASEY St. Louis Tr. Ac. Sci. **16**, **spp. n.**

Lispinus laevigatus Paraguay **sp. n.**, BERNHAUER (193) D. ent. Zs. Berlin **1906**.—*L. lucens* Brasilia, BERNHAUER (322) Wien Verh. Zool.-bot. Ges. 1906, **sp. n.**.—*L. rivularis* N. S. Wales, LEA (214) Sydney N. S. W. Proc. Linn. Soc. **21**, **sp. n.**

Lissagria **gen. n.** for part of *Falagria* (252), *fissilis*, *impressifrons*, *robusta*, *minuscula*, (254), *longicollis* (255), **spp. n.**, N. America, CASEY St. Louis Tr. Ac. Sci. **16**.

Lissolhypnus **gen. n.** near *Gyrolhypnus* (398), *texanus* **sp. n.** N. America (399), CASEY T.c.

Lithocharodes pallidus Texas, CASEY (410) T.c., **sp. n.**

Lophagria **gen. n.** for *Falagria subaenea* Epp., CASEY (230) T.c.

Lorinota **gen. n.** near *Stenagria* (238), *caviceps* (240), *pinalica*, *arizonica*, (241), *fontinalis*, *acomana*, (242), *tennicornis* (243), *gracilis*, *parva*, (244), *bilimbata* (245), **spp. n.**, N. America, CASEY T.c.

Macroterma **gen. n.** near *Homalota* (335), *borealis* **sp. n.** White Mts. (326), CASEY T.c.

Maseochara decipiens (169), *ponderosa*, *ruficauda*, (170), *basalis* (171), CASEY T.c., **spp. n.**

Medon augur Corsica, DEVILLE (89) Cat. Col. Corse, **sp. n.**

Melagria **gen. n.** for *Falagria nigra* Grav. etc., CASEY (230) St. Louis Tr. Ac. Sci. **16**.

Meronea montana (222), *obliqua* (223), N. America, CASEY T.c., **spp. n.**

Microlinus **gen. n.** for *Leptolinus pusio* Lec., CASEY (419) T.c.

Myrmedonia antennata, *faureli*, **spp. n.**, Usambara, SCHUBERT D. ent. Zs. **1906** (371-372).

Nasirema inquilina Iowa, CASEY (311) St. Louis Tr. Ac. Sci. **16**, **sp. n.**

Nematolinus **gen. n.** near *Lithocharodes*, (407), for *longicollis* Lec., CASEY T.c.

Neolara cubana Honda, CASEY (189) T.c., **sp. n.**

Notaphra and *Myrmoccia* distinguished, CASEY (322) T.c.

Notiochara **gen. n.** near *Nenochara*, (131), *subaspera*, *stibiosa*, **spp. n.**, S. Africa, (135), CASEY T.c.

Notolinopsis **gen. n.** near *Xantholinus*, (377), *ineultus*, *latitarsis*, (378), *languidus*, *capensis*, *diligens*, (379), **spp. n.**, S. Africa, CASEY T.c.

Notolinus **gen. n.** near *Xantholinus*, (375), *grossulus*, *funipennis*, (376), *parrus* (377), **spp. n.**, S. Africa, and *hottentotus* Sachse, CASEY T.c.

Nudobius nudipennis (381), *phoenicis*, *arizoniensis*, *pugetanus*, (382), *limbalis*,

corticalis, *debilis*, *luridipennis*, (383), *elegantulus*, (384), N. America, CASEY T.c., **spp. n.**

Oecala grandicollis (305), *franciscana* (306), N. America, CASEY T.c., **spp. n.**

Ocyolinus ganglbaueri, *vulneratus*, **spp. n.**, Venezuela, BERNHAUER (199) D. ent. Zs. Berlin 1906.

Ocyusa californica Californien (343), *brevipennis* Massachusetts (344), **spp. n.** BERNHAUER T.c.

Oedichiramus **subgen. n.** vide *Oedichirus*.

Oedichirus (*Oedichiramus* (**subgen. n.** *dimidiatus* **spp. n.** Balduchuan, REITTER Entomol. Ztg. Wien 25 (263).

Oligolinus **gen. n.** for *Metoponeus floridanus* Lec., CASEY (420) St. Louis Tr. Ac. Sci. 16.

†*Olophrum interglaciale* Sweden, glacial, MJOBERG (193) Stockholm Geol. För. Förh. 26, **spp. n.**

Omalius and allies, revision of palae-arctic, LUZE Wien Verh. zool. bot. Ges. 1906, (485–602). Synonymical and taxonomical changes intimated in this memoir are not recorded here.

Omalius clavatum Irkutsk (522), *imitator* East Europe (534), *longicornis* Mongolia (543), *blandum* Italia (546). LUZE T.c., **spp. n.**—*O. riparium* larval habits (140), pupa f. 8, MJOBERG Zs. wiss. Insektenbiol. 2.

Ontholestes brasilianus **spp. n.** Brazil, BERNHAUER (202) D. ent. Zs. Berlin 1906.

Oreochara **gen. n.** near *Aleochara laramiensis* **spp. n.** Wyoming, CASEY (148) St. Louis Tr. Ac. Sci. 16.

Othiellus **gen. n.** for *Othius melanocephalus* &c., CASEY (423) T.c.

Oxyopoda mimetica, *ameia*, (312), *sylvia*, *lucidula*, *stygia*, (313), *renoica*, *iowensis*, (314), *ancilla*, *simulans*, *truncatella*, (315), *virginica*, *obliqua*, *peregrilis*, (316), *lacustris*, *nevadensis*, (317), *fusiformis* (318), N. America, CASEY T.c., **spp. n.**—*O. tenera* **spp. n.** Californien, BERNHAUER D. ent. Zs. 1906 (345).

Oxytelus (*Anatylus*) *crebratus* **spp. n.** Usambara, SCHUBERT D. ent. Zs. (377).—*O. micropterus* Tasmania (203), pl. xviii f. 4, *strigiceps*, *trisulceicollis*, (204), Australia *elevatus* Tasmania (205),

m-elevatus (206), *lateralis* (207), *tuberculatus* (208), Australia, *dispar* Tasmania (209), *inconstans* W. Australia (210), LEA Sydney N.S.W. Proc. Linn. Soc. 31, **spp. n.**—*O. robustus* **spp. n.** Kaschmir, SCHUBERT D. ent. Zs. 1906 (383).—*O. vermicularis* (Fauv. i. l.) Gaboon **spp. n.**, BERNHAUER (185) D. ent. Zs. Berlin 1906.

Pachycerota **gen. n.** near *Ilyobates* (307), *durgi* **spp. n.** N. America (308), CASEY St. Louis Tr. Ac. Sci. 16.

Paederus usambaricus, *weisei* **spp. n.** Usambara, SCHUBERT D. ent. Zs. 1906 (375).

Palaminus productus **spp. n.** Usambara, SCHUBERT T.c. (376).

Pancota **gen. n.**, near *Silusa*, *collaris* **spp. n.** New York, CASEY (315) St. Louis Tr. Ac. Sci. 16.

Parothius **gen. n.** for *Othius californicus* Mann., CASEY (424) T.c.

Phaenogyra californica California, CASEY (553) T.c., **spp. n.**

Phanerota **gen. n.** for pt. of *Gyroplacna*, (285), *ocularis*, *angularis*, (287), *cubensis* Cuba (288), *peninsularis* Lower California (289), **spp. n.**, and *G. boops* etc., CASEY T.c.

Phanolinus anreicentris (200), *episcopus*, Bolivia, *princeps* Peru, (201), **spp. n.**, BERNHAUER D. ent. Zs. Berlin 1906.

Philonthus diversus, *protenus*, **spp. n.**, Kaschmir, SCHUBERT D. ent. Zs. 1906 (382).—*P. elegantulus* **spp. n.** Usambara, SCHUBERT T.c. (373).—*P. laticornis* Madagascar **spp. n.**, BERNHAUER (190) D. ent. Zs. Berlin 1906.—*P. pentheri* Asia Minor, GANGLBAUER (273) Wien Ann. Nat. Hist. Hofmus 20, **spp. n.**—*P. varius* var. n. *shetlandicus*, PORRIUS (9) Helsingfors Öfvers. F. vet. Soc. 47, No. 17.

Phloeopora oregona, *sublaevis*, N. America, CASEY (310) St. Louis Tr. Ac. Sci. 16, **spp. n.**

Phyllodrepa rufipennis Baikalsce (554), *clarigera* Finland (566), *palpalis* Italia (567), *reitteri* Lenkoran (570), **spp. n.**, *sahlbergi* **nom. n.** for *crassicornis* Sahlb. (561), LUZE Wien Verh. zool.-bot. Ges. 1906.

Physetops giganteus **spp. n.**, *herculeanus* **subsp. n.**, Uebersicht und Verbreitung der Arten, SEMENOV Rev. russ. ent. 6 (53–57).

Piestus sanctae-catharinae Brazil **sp. n.**, BERNHAUER (193) D. ent. Zs. Berlin **1906**.

Pinalochara **gen. n.** near *Alcochara*, (177), *wickhami* **sp. n.** Arizona (178), CASEY St. Louis Tr. Ac. Sci. **16**.

Pinophilus grandis **sp. n.** Bucharra, REITTER Entomol. Ztg. Wien **25**, (237-244).

Placusa gabonensis Biafra, FAUVEL (290) Madrid Mem. Soc. Hist. Nat. **1**, **sp. n.**

Pleurotobia **gen. n.** near *Bolitochara*, (273), *suturalis*, *tristigma*, (274), *texana* (275), **spp. n.**, N. America, CASEY St. Louis Tr. Ac. Sci. **16**.

Plociopterus brasiliannus Brazil **sp. n.**, BERNHAUER (197) D. ent. Zs. Berlin **1906**.

Polystomata **gen. n.** for *Polystoma grisea* Kr., CASEY (136) St. Louis Tr. Ac. Sci. **16**.

Pycnoglypta aretica Siberia, LUZE (586) Wien Verh. zool.-bot. Ges. **1906**, **sp. n.**

Quedius fulgidus allies distinguished, JOY (201) Ent. Mag. London **42**.

Raphirus umbrinus, early stages, MJÖBERG (139) figs. 3-7 Zs. wiss. Insektenbiol. **2**.

Rheobioma, **gen. n.** near *Rheochara*, (180), *disjuncta* **sp. n.** California (181), CASEY St. Louis Tr. Ac. Sci. **16**.

Rheochara nebulosa Pennsylvania, CASEY (179) T.c., **sp. n.**

Rheocharella, **gen. n.** near *Rheochara* (181), for *feyyesi* Bernh., CASEY T.c.

Saurohymnus dugesi, Mexico, CASEY, 371) T.c., **sp. n.**

Scopaenus (Polyodontus) coecus Tunis, DE PEYERUNHOFF (56) Paris Bull. soc. entom. **1906**, **sp. n.**

Sibiota, **gen. n.** near *Sipalia*, *impresula* **sp. n.** Oregon, CASEY (350) St. Louis Tr. Ac. Sci. **16**.

Silusa valens New York (344), *decolorata* California (345) CASEY T.c., **spp. n.**

Silusida, **gen. n.** near *Bolitochara* (270), *nanella* **sp. n.** Pennsylvania (271) CASEY T.c.

Staphyllinus bodongi Rhodesia (187), *hemichrysis* Fauv. i. l. Abyssinia,

kraatzi CAMEROONS (188), **spp. n.**, BERNHAUER D. ent. Zs. Berlin **1906**.

Stenus (Hypostenus) kwaiensis **sp. n.** Usanbara, SCHUBERT D. ent. Zs. **1906** (376).—*S. ossium* var. *n. insularis*, JOY Ent. Mag. London **42** (5).—*S. violaceus* Brazil **sp. n.**, BERNHAUER (191) D. ent. Zs. Berlin **1906**.

Stictalia **gen. n.** near *Bolitochara* (261), *aspera*, *punctiventris*, (266), *rugipennis*, *obsolescens*, *arcuata*, (267), *bakeri*, *collaris*, *laxicornis*, (268), *brevicornis*, *minor*, (269), **spp. n.**, N. America, CASEY St. Louis Tr. Ac. Sci. **16**.

Stictolimus, **gen. n.** near *Leptacinus* (104), *aequalis* (105), *aeolopacea*, *franciscanus*, (406), **spp. n.**, N. America CASEY T.c.

Styngetus niger Brazil and Paraguay **sp. n.**, BERNHAUER (197) D. ent. Zs. Berlin **1906**.

Sumus simsoni Tasmania (198), *farosus* (199) pl. xviii f. 2, *hackeri* (200), Australia, LEA Sydney N.S.W. Proc. Linn. Soc. **31**, **spp. n.**

Tachinoderus cyanipennis Madagascar **sp. n.**, BERNHAUER (191) D. ent. Zs. Berlin **1906**.

Tachyusa bicolor **sp. n.** Kaschmir, SCHUBERT D. ent. Zs. **1906** (379).—*T. smithi* (206), *americana*, *carolinae*, (207), *obsoleta*, *parviceps*, (208), *subalutacea*, *missouriana*, (209), *pruinosa*, *dakotana*, *illini*, (210), *ornatella*, *arida*, (211), *vespertina* (212), N. America, CASEY St. Louis Tr. Ac. Sci. **16**, **spp. n.**

Tachysilla, **subg. n.** for *Tachyusa balteata* Er., CASEY (213) T.c.

Tachysota, **subg. n.** of *Tachyusa*, *gemma* **sp. n.** S. Africa, CASEY (213) T.c.

Taphrodota, **gen. n.** near *Homalota*, *ventralis* **sp. n.** New York, CASEY (338) T.c.

Teliusa, **gen. n.** near *Gnypeta* (203), *alutacea* **sp. n.** Texas (204), CASEY T.c.

Terasota **gen. n.** near *Homalota*, *brunneipes* **sp. n.** New York, CASEY (337) T.c.

Termitodiscus bellicosus Erythraea in nests of *Termes bellicosus*, SILVESTRI (348) Redia **3**, **sp. n.**

Termitusa escalerae Biafra, FAUVEL (289) Madrid Mem. Soc. esp. Hist. Nat., **1**, sp. n.

Tetrallus bicolor sp. n. Californien, BERNHAUER D. ent. zs. **1906** (343).

Thinusa fletcheri (353), *obscura* (354), N. America, CASEY St. Louis Tr. Ac. Sci. **16**, spp. n.

Tinotus trisectus Idaho, CASEY (321) T.c., sp. n.

Tithanis gen. n. for *Maseochara valida*, CASEY (172) T.c.

Tomoxelia opacula Camerouns sp. n., BERNHAUER (192) D. ent. Zs. Berlin **1906**.

Trachyota gen. n. type *Falagria caripennis* Lec., (190), *latirentis* sp. n. California (191), CASEY St. Louis Tr. Ac. Sci. **16**.

Trichiusa polita, *transversa*, (327), *parviceps*, *monticola*, (328), *convergens*, *hirsuta*, (329), *atra*, *postica*, *virginica*, (330), *rigida*, *discreta*, (331), *varicolor* (332), N. America, CASEY T.c., spp. n.

Trigonurus brasiliensis Brasilia, BERNHAUER (327) Wien Verh. Zool.-bot. Ges **1906**, sp. n.

Typhlobledius gen. n. near *Bledius* (200), *cylindricus* n. sp. Tasmania (202), LEA Sydney N.S.W. Proc. Linn. Soc. **31**.

Ulitusa gen. n. near *Silusa* (347), *cribratula*, *pusio*, spp. n., Ohio, (348), CASEY St. Louis Tr. Ac. Sci. **16**.

Valenusia gen. n. near *Atheta*, *parallela* sp. n. California, CASEY (342) T.c.

Venusia gen. n. near *Bolitochara* (272), *lactula* sp. n. N. America (273), CASEY T.c.

Xanthohypnus gen. n. for *Xantholinus strigiceps* Sharp, CASEY (374) T.c.

Xenopygus gen. n. for *Lampropygus analis* and *bicolor*, BERNHAUER (196) D. ent. Zs. Berlin **1906**.

Xestolinus gen. n. near *Gyrophypnus* (397), *abdominalis*, *oriceps*, (398), spp. n., N. America, CASEY St. Louis Tr. Ac. Sci. **16**.

Xesturida gen. n. near *Trichiusa* (325), *laevis* sp. n. N. America (326), CASEY T.c.

(x-9720 j)

Xylodromus opaculus Sibirien, LUZE (497) Wien Verh. zool.-bot. Ges. **1906**, sp. n.

The following have been previously recorded in the Zoological Record.

(*Acanthoglossa hora*, *longiceps*, Madagascar, FAUVEL, Rev. ent. Caen, **24**, 1905, spp. n.)

(*Actobius leptocerus*, *boops*, *oculatus*, Madagascar, FAUVEL, T.c. spp. n.)

(*Acylophorus delphinus* Madagascar, FAUVEL, T.c. sp. n.)

(*Aenietonia raffrayi* Deutsch Ost-Africa, FAUVEL, Rev. ent. Caen, **23**, 1904, sp. n.)

(*Aleochara andrevesi*, *viatica*, FAUVEL, T.c. spp. n.)

(*Alianta phloeoporina*, FAUVEL, T.c. sp. n.—*A. rudis*, Afrique tropicale, FAUVEL, Op. cit., **24**, sp. n.—*A. pictipennis*, Afrique, FAUVEL, T.c., sp. n.)

(*Amaurodera* gen. n., FAUVEL, (type *Falagria reluticollis* Mots.) T.c.)

(*Ancacus cordicollis*, Madagascar, FAUVEL, T.c. sp. n.)

(*Anchocerus* gen. n., *birmanus*, Malaisie sp. n., FAUVEL, T.c.)

(*Anisolinus raffrayi*, *anthracinus*, Madagascar, FAUVEL, T.c., spp. n.)

(*Anisopsis* gen. n., *fleuosa*, Zambezi, *carinata*, Zanzibar, spp. n., FAUVEL, T.c.)

(*Anthobium sikkimi*, FAUVEL, T.c. sp. n.)

(*Apatetica semiriolacea*, Java, *rotundicollis*, Java, *sparsicollis*, Lombok, *laevicollis*, Tonkin, FAUVEL, T.c., spp. n.)

(*Apterionina* gen. n., *A. schmitti* sp. n., Colorado, WASMANN, Entomol., Ztg. Wien, **20**, 1901, (145-147).)

(*Astenus melanurus*, Küst., *subnotatus* var. n., FAUVEL, Rev. ent. Caen, **23**, 1904, sp. n.—*A. perangustus*, *punctipennis*, *perrieri*, *psilographus*, Madagascar, Op. cit., **24**, spp. n.)

(*Astilbus incola*, FAUVEL, Rev. ent. Caen, **23**, 1904, sp. n.)

(*Atheta (Hydrosmeeta) orientis*, FAUVEL, T.c., sp. n.—*A. nilgiriensis*, FAUVEL, T.c., sp. n.—*A. (Aloeoncta) chiffana*, Barbarie, FAUVEL, Op. cit., **24**, sp. n.)

(*Belonuchus quadriceps*, *holisinus*, Deutsch Ost-Afrika, FAUVEL, *Op. cit.*, **23**, spp. n.)

(*Bledius distans*, *perrieri*, *lugubris*, Madagascar, FAUVEL, *Rev. ent.*, Caen, **24**, 1905, spp. n.—*B. bellicosus*, Malaisie, *conicicollis*, Tonkin, *arenicola*, Malabar, *helferi*, Birmanie, FAUVEL, *T.c.*, spp. n.)

(*Bolbophites* gen. n., *pustulosus*, *aspericeps*, Brésil, spp. n., FAUVEL, *Op. cit.*, **23**.)

(*Bolitochara semiaspera*, FAUVEL, *T.c.*, sp. n.)

(*Bombylodes*, nov. nom. pro *Bombylius* Fauvel (1902), FAUVEL (43), *T.c.*)

(*Canonica aethiopica*, Deutsch Ost-Africa, FAUVEL, *T.c.*, sp. n.)

(*Conurus pulchricolor*, *gracilicornis*, *connexus*, Madagascar, FAUVEL, *Op. cit.*, **24**, spp. n.)

(*Coprophilus alticola*, Ind., FAUVEL, *T.c.*, sp. n.)

(*Crymus* gen. n., *antareticus*, Nouvelle Georgia du Sud n. sp., FAUVEL, *T.c.*)

(*Cryptobium extraneum*, FAUVEL, *Op. cit.* **23**, sp. n.—*C. alluandi* Madagascar, FAUVEL, *Op. cit.* **24**, sp. n.)

(*Cylindropsis afriana*, Algérie, PEYERIMHOFF, Paris, *Bul. soc. ent.*, **1905**, sp. n.)

(*Delopsis microphthalmia*, Java, FAUVEL, *Rev. ent.*, Caen, 1904 ; **24**, 1905, sp. n.)

(*Dibelonetes alluandi*, Madagascar, FAUVEL, *T.c.*, sp. n.)

(*Diglossa peyerimhoffi*, *cameroni*, FAUVEL, *Op. cit.* **23**, 1904, spp. n.)

(*Dinardilla* gen. n., *D. liometopi*, Colorado, sp. n., WASMANN, *Entomol. Ztg.*, Wien, **20**, 1901, (145-147).

(*Dromeciton* gen. n., *wagneri*, Brésil, sp. n., FAUVEL, *Rev. ent.*, Caen, **23**, 1904.)

(*Edaphus dentiventris*, Malaisie, FAUVEL, *Op. cit.* **24**, 1905, sp. n.)

(*Eleusis conradi*, *kolbei*, Deutsch Ost-Africa, FAUVEL, *Op. cit.* **23**, spp. n.—*E. perrieri*, *apicalis*, *heterodera*, *boops*, *hydrocephala*, Madagascar, FAUVEL, *Op. cit.* **24**, spp. n.—*E. rufiventris*, Sumatra, *conifrons* Sumatra, *warburgi*, Célèbes, *discahis*, Sumatra, *rotundiceps*, Inde, *quadridens*, Perak, *lunigera*, Asie

orientale, Nouvelle Guinée, etc., FAUVEL, *T.c.* spp.)

(*Erechomus aluticollis*, Nouvelle Guinée, FAUVEL, *Rev. ent.*, Caen, **23**, 1904, sp. n.—*E. planus*, Malaisie, FAUVEL, *Op. cit.* **24**, sp. n.—*E. ampliatus*, Afrique tropicale, FAUVEL, *T.c.* sp. n.—*E. retipennis*, *madecassa*, Madagascar, FAUVEL, *T.c.* spp. n.)

(*Eustenia* gen. n., *aspera*, *opacicollis*, Java spp., FAUVEL, *T.c.*)

(*Falagria nilgiriensis*, FAUVEL, *Op. cit.* **23**, sp. n.)

(*Geostiba aurogemmata*, FAUVEL, *T.c.* sp. n.—*G. peyerimhoffi*, Barbarie, FAUVEL, *Op. cit.* **24**, sp. n.)

(*Haploderus speculiventris*, Java, FAUVEL, *T.c.* sp. n.)

(*Holosus pareestriatus*, Java, *pennifer*, Annam, *brevipennis*, Asie orientale, *iusularis*, Malaisie, *aberrans*, Ceylon, FAUVEL, *T.c.* spp. n.)

(*Holotrochus coriaceus*, *nigrita*, *nitescens*, *marginicollis*, *specularis*, *fairmairei*, Madagascar, FAUVEL, *T.c.* spp. n.)

(*Homalium usambarae*, Deutsch Ost-Africa, FAUVEL, *Op. cit.* **23**, sp. n.—*H. hova*, *ecstipenne*, Madagascar, FAUVEL, *Op. cit.*, **24**, spp. n.—*H. sulcicollis*, *ehorizans*, *obesum*, *rude*, Sumatra, FAUVEL, *T.c.*, spp. n.—*H. rauloegeri*, Barbarie, FAUVEL, *T.c.*, sp. n.)

(*Homalota crenulata*, FAUVEL, *Op. cit.*, **23**, sp. n.—*H. nigrescens*, Malaisie, FAUVEL, *Op. cit.*, **24**, sp. n.)

(*Hoplitodes* gen. n., *echidne*, Natal, sp. n., FAUVEL, *T.c.*)

(*Lathrobium sinaicum*, FAUVEL, *Op. cit.*, **23**, sp. n.—*L. catenulatum*, Madagascar, FAUVEL, *Op. cit.*, **24**, sp. n.)

(*Leptusa (Pisalia) oreophila*, sp. n., Kärnthen, Steiermark, PENECKE, *Entomol. Ztg.*, Wien, **20**, 1901, (11-21).)

(*Lispinus usambarae*, *insignicollis*, Deutsch Ost-Africa, FAUVEL, *Rev. ent.* Caen, **23**, 1901, spp. n.—*L. varians*, *agnatus*, *obscurus*, Madagascar, FAUVEL, *Rev. ent.* Caen.—*L. macropterus*, Célèbes *validicornis*, Queensland, *sulcatus*, Nouvelle Guinée, *rugipennis*, Java, *acicularis*, Java, *quadrinotatus*, Malaisie, *binotatus*, Nouvelle Guinée, FAUVEL, *Op. cit.*, **24**, spp. n.—*L. rufulus*, Afrique tropicale, FAUVEL, *T.c.*, sp. n.)

(*Leptacinus politus, dieganus, microphthalmus*, Madagascar, FAUVEL, T.c., spp. n.)

(*Maseochara indica, jarana*, Java, FAUVEL, Op. cit., **23**, spp. n.)

(*Medon praecustus, latecinctus, nanus*, Malaisie, FAUVEL, Rev. ent. Caen, **24**, 1905, spp. n.—*M. prognathus, megalops, duplicatus, dieganus, madecassa, sexualis, heterogenus, maculipennis, hora, delphinus*, Madagascar, FAUVEL, T. c., spp. n.)

(*Megacronus lineipennis*, FAUVEL, Op. cit., **23**, sp. n.)

(*Megalops hora, bifenestratus, cribriceps*, Madagascar, FAUVEL, Op. cit., **24**, spp. n.)

(*Megarhirus limaculatus*, Ceylon, *basicornis*, Inde, FAUVEL, T.c., spp. n.)

(*Mimophites* gen. n., *bouvieri, lateiceps*, Brésil, spp. n., FAUVEL, Op. cit., **23**.)

(*Mitomorphus obsoletus*, FAUVEL, T.c., sp. n.)

(*Neophonon* gen. n., *bruchii*, sp. n., Argentine, FAUVEL, Op. cit., **24**.)

(*Oedichirus ventralis, rufitarsis, kolbei*, Madagascar, FAUVEL, Op. cit., spp. n.)

(*Osoarius strangulatus* n. sp., FAUVEL, Op. cit., **23**, 1904, sp. n.—*O. sparsior*, Deutsch Ost-Africa, FAUVEL, T.c. sp. n.—*O. frontalis*, Malaisie, FAUVEL, Op. cit. **24**, sp. n.—*O. incisifrons*, FAUVEL, *regularis*, Afrique tropicale, T.c. spp. n.—*O. impennis*, Madagascar, FAUVEL, T.c. sp. n.)

(*Oxyopoda arabs*, FAUVEL, Op. cit. **23**, sp. n.)

(*Oxytelopsis madecassa*, Madagascar, *genalis*, Perak, FAUVEL, Op. cit., spp. n.)

(*Oxytelus puactipennis*, Inde, *barbatus*, Java, *cribrum*, Inde, *uncifer*, Java, *sikkimi*, Inde, *tenuicornis, occipitalis, raffrayi*, Java, *crenulifer*, Gabon, *pubiventris, foraminosus*, Afrique, *pubiventris, sericeiventris, alutellus, fusicornis, porepunctus, galla, hamacenus, fulgidus, megalomarus, curticolis, reductus, bidentulus, viator*, Afrique, *jelskii, apicicornis, inaequalis, hamuliger, laevissimus, striolicollis, vulcanus, monodon, obscurellus, championi, rhaplocerus, magdalinæ, speculiceps*, Amérique, FAUVEL, Rev. ent. Caen, **24**,

spp. n.—*O. bubalus, atriceps, megacephalus, gigantulus, migrator*, Fauvel, *ruptus*, Indo-malaisie, *heterophthalmus*, Australie, *dilatipennis, planus, nitidipennis, claviger, incisicollis, bicolor, heterocerus, sculptiventris*, Afrique, *crassus, speculum, dentifrons, scorpio*, Amérique tropicale, FAUVEL, T.c. spp. n.—*O. lobatus, anticus*, Madagascar, FAUVEL, T.c. spp. n.)

(*Pachycorinus puncticollis, scalabrei*, Madagascar, FAUVEL, Rev. ent. Caen, **24**, spp. n.—*P. marginellus*, Afrique tropicale, FAUVEL, T.c. spp. n.)

(*Paederus andrevesi, graciosus*, FAUVEL, Op. cit. **23**, sp. n.—*P. trimerus*, Nouvelle Guinée, FAUVEL, T.c. sp. n.—*P. usambaræ*, Deutsch Ost-Africa, FAUVEL, T.c. sp. n.—*P. metallicus, dilatipes, forficularius*, Madagascar, FAUVEL, Op. cit. **24**, spp. n.)

(*Palaminus simoni*, FAUVEL, Op. cit. **23**, sp. n.—*P. suturalis, madecassa, pennifer, nossibianus, allocerus, brunneus, circumflexus, transmarinus*, Madagascar, FAUVEL, Op. cit. **24**, spp. n.)

(*Paragonus acuticollis, heterocerus*, Malaisie, FAUVEL, T.c. spp. n.)

(*Philonthus undæ* sp. n., Steiermark, PENECKE, Entomol. Ztg., Wien, **20**, 1901, (11–21).—*P. pollux, limbipennis, ingratus, oricollis, hora*, Madagascar, FAUVEL, Rev. ent. Caen, **24**, spp. n.—*P. cinctus*, Abyssinie, FAUVEL, T.c. sp. n.—*P. dimidiaticornis, pallidipennis*, Afrique tropicale, FAUVEL, T.c. spp. n.)

(*Phyllodrepa skeræ*, Italien, REITTER, Entomol. Ztg. Wien, **24**, 1905, (242), sp. n.)

(*Phytosus obockianus*, Afrique, FAUVEL, Rev. ent. Caen, **24**, 1905, sp. n.)

(*Pinophilus piceus*, FAUVEL, Op. cit. **23**, sp. n.—*P. schuberti, mesocerus, speculifrons, fairmairei*, sp. n., *schuberti punctulatus* var. n., Madagascar, FAUVEL, T.c.)

(*Placusa simulans*, Deutsch Ost-Africa, FAUVEL, Op. cit. **23**, sp. n.)

(*Planeustomus indicus*, FAUVEL, Op. cit. **24**, sp. n.)

(*Platydrumus erosus*, Madagascar, FAUVEL, T.c. sp. n.)

(*Platyprosopus niloticus*, Afrique, FAUVEL, Op. cit. **23**, (275) sp. n.)

(*Proteinus* Latr., Artübersicht (226–228); *P. planicollis*, (201), *reflexicollis* Araxestal, (226), *altaicus*, Altai (227), spp. n.; *P. brachypterus* Fbr. var. n., *lividipennis*, Kaukasus, REITTER, Entomol. Ztg., Wien, **24**, 1905.)

(*Scopaeus hora*, *longicornis*, *punctatellus*, Madagascar, FAUVEL, Rev. ent. Caen, **24**, 1905, spp. n.)

(*Silusa leptocera*, Java, FAUVEL, T.c. sp. n.)

(*Staphylinus suspectus*, FAUVEL, Op. cit. **23**, sp. n.—*S. notativentris*, Abyssinie, FAUVEL, Op. cit. **24**, sp. n.—*S. hemichrysis*, *alluaudi*, Afrique tropicale, FAUVEL, T.c. spp. n.—*S. tanalensis*, *violaceovirens*, Madagascar, FAUVEL, T.c. spp. n.)

(*Stenus* (*Nestus*) *phyllobates* sp. n., Steiermark, PENECKE, Entomol. Ztg., Wien, **20**, 1901, (11–21).—*S. belli*, *ventricosus*, *andrewesi*, *consors*, *millepunctus*, FAUVEL, Rev. ent. Caen., **23**, spp. n.—*S. azeganus*, Abyssinie, FAUVEL, Op. cit. **24**, sp. n.—*S. protector*, *irroratus*, *uniformis*, *rolulus* *obconicus*, *mirus*, *alluaudi*, *sicardi*, *goudoti*, *dieganus*, *chloropterus*, *pluripunctus*, *creberrimus*, *trioile*, *delphinus*, Madagascar, FAUVEL, Op. cit. **23** spp. n.)

(*Stilicoderus umbratus*, FAUVEL, Op. cit. **23**, sp. n.)

(*Stilicopsis breviceps*, Malairie, FAUVEL, Op. cit. **24**, 1905, sp. n.)

(*Stilicus quadrimaculatus*, Deutsch Ost. Africa, FAUVEL, Op. cit. **23**, sp. n.)

(*Suniocharis guttula*, *dilatipes*, Madagascar, FAUVEL, Op. cit. **24**, spp. n.)

(*Tanygnathus crassicornis*, Madagascar, FAUVEL, T.c. sp. n.)

(*Termitusa* gen. n., *sjoestedti* sp. n., WASMANN, Rev. ent. Caen, **24**, 1905.)

(*Tetradelus* gen. n., *trigonuroides*, sp. n., FAUVEL, Rev. ent. Caen, **24**.)

(*Thinocaris incrimis*, *impressa* *curticollis*, *alluaudi*, *brevigenis*, *aptera*, *diegma*, Madagascar, FAUVEL, T.c. spp. n.)

(*Trogophloeus*, *alluaudi*, *dieganus*, *malgaceus*, *boops*, Madagascar, FAUVEL, T.c. spp. n.—*T. fuscipalpis*, Ceylon, *lepidicornis*, Célèbes, FAUVEL, T.c.)

(*Xantholinus cinctus*, FAUVEL, Op. cit. **23** sp. n.—*X. pictipennis*, Deutsch Ost. Africa, FAUVEL, T.c. sp. n.—*X. goudoti*,

heterocephalus, *scorpunctatus*, *albocinctus*, *hora*, *umbilicatus* *clariger*, *innocuus*, Madagascar, FAUVEL, Op. cit. **24** spp. n.)

(*Xerophygus ocularis*, Sumatra, FAUVEL, T.c. sp. n.)

(*Zyrus forticornis*, FAUVEL, *hastatus*, Op. cit. **23**, spp. n.—*Z. compressicornis*, Asia or., FAUVEL, Op. cit. **24**, sp. n.)

PSELAPHIDAE.

Adranes dietzii sp. n. California, SCHAEFFER (265) Philadelphia Pa. Trans. Amer. Ent. Soc. **32**.

Amauronyx dodeori Gavarnie, NORMAND (105) Paris Bull. Soc. ent. **1906**, sp. n.

Amaurops romana Italie, RAFFRAY (162) Paris Bull. Soc. ent. **1906**, sp. n.

Batrisesodes beyeri (261), *antennatus* (262), N. America, SCHAEFFER Philadelphia Pa. Trans. Amer. Ent. Soc. **32**, spp. n.

Bryaxis (*Bythinus*) *galeata* sp. n. Port-Vendres (291), (*Bythinus*) *fauconneti hermensis* subsp. nov. (292), NORMAND Paris Bull. Soc. ent. **1906**.

Bythinus sturanyi (1667), *merditanus*, *oroshianus*, (1668), Albanien, *ectinjenensis* Montenegro (1669), *tithonus* Albanien (1670), spp. n., APFELBECK Wien Sitz-Ber. Ak. Wiss. **115** Abt. I.—*B. calabricus* sp. n. Italy, REITTER Entomol. Ztg. Wien **25** (130).

Caecoplectus spinipes sp. n. Texas, SCHAEFFER (263) Philadelphia Pa. Trans. Amer. Ent. Soc. **32**.

Euplectus curripes Constantine, PEYERIMHOFF (37) Paris Bull. Soc. entom **1906**, sp. n.—*E. hummleri* sp. n. Calabrien, REITTER Entomol. Ztg. Wien **25** (129).—*E. tomlini* England in birds' nest Joy (99) Ent. Mag. London **42**, sp. n.

Fustiger knausii sp. n. New Mexico, SCHAEFFER (264) Philadelphia Pa. Trans. Amer. Ent. Soc. **32**.

Reichenbachia dilatipes sp. n. Texas, SCHAEFFER (262) T.c.

Reichenbachius nom. n. for *Reichenbachia* auctt., CASEY (359) St. Louis Tr. Ac. Sci. **16**.

Trimium paganettii sp. n. Calabrien, REITTER, Entomol. Ztg. Wien **25** (129).

The following Pselaphidae have been previously recorded in the Zoological Record:—

(*Achillia convexiceps*, *picca*, *cordicollis*, *clavata*, *quadriceps*, *latifrons*, *blanchardi* nom. n., *elfrida*, *brevicornis*, RAFFRAY, Paris, Ann. Soc. ent., **72**, spp. n.)

(*Adiastulus* gen. n., RAFFRAY, T.c.)

(*Anasis impunctata*, RAFFRAY, T.c. sp. n.)

(*Anasopsis* gen. n., RAFFRAY, T.c.)

(*Ancystrocerus carinatus*, RAFFRAY, T.c. sp. n.)

(*Apharina nodula*, *armata*, RAFFRAY, T.c. spp. n.)

(*Aploderina* gen. n., *sulcicornis*, sp. n., RAFFRAY, T.c.)

(*Aporhexius* gen. n., *pubescens* sp. n., RAFFRAY, T.c.)

(*Arthmius pedestrianus*, *labiatus*, *transversalis*, RAFFRAY, T.c. spp. n.)

(*Asynoplectus flagellatus*, RAFFRAY, T.c. sp. n.)

(*Atenisodus* gen. n., *macrophthalmus* sp. n., RAFFRAY, T.c.)

(*Balega dentata*, RAFFRAY, T.c. sp. n.),

(*Batoctenus dimidiatus*, *incertus*, RAFFRAY, T.c. spp. n.)

(*Batraxis tumorosa*, *indica*, *parvispina*, *obesa*, RAFFRAY, T.c. spp. n.)

(*Batribolbus* gen. n., RAFFRAY, T.c.)

(*Batrisiella* gen. n., RAFFRAY, T.c.)

(*Batrisinus elegans*, *gravidus*, RAFFRAY, T.c. spp. n.)

(*Batrisocenus siamensis*, *furcifer*, *tumorosus*, *triangulatus*, *truncatus*, *mitratus*, *vulneratus*, *carinatus*, *trigona*, *longipes*, *cameratus*, *fornicatus*, *binodosus*, *calcaratus*, *sauciipes*, *deformipes*, *cultripes*, *major*, *sincensis*, *indecorus*, *annamita*, *quadriceps*, *immundus*, *capitatus*, *carinicollis*, RAFFRAY, T.c. spp. n.)

(*Batrisodes obesus*, *luteolus*, *tricarinatus*, *tuberculatus*, *acinosus*, *ferinus*, *tenuicornis*, *multiforus*, *infandus*, *patra*, *nus*, *nodosus*, *indecorus*, *marortius*, *irritus*, *demissus*, *sagax*, *Harmandi*, *epistomalis*, *ophelius*, RAFFRAY, n. spp.)

(*Batrisomalus* gen. n., *infossus* sp. n., RAFFRAY, T.c.)

(*Biblomimus* gen. n., *minutus* sp. n., RAFFRAY, T.c.)

(*Bibloplectus parviceps*, RAFFRAY, T.c. sp. n.)

(*Brachygluta aubei*, *picci*, *haematica*, *simplicior*, *lepricuri*, *clavata*, RAFFRAY, T.c. varr. n.)

(*Braxyda* gen. n., *homata*, *crassipes*, spp. n., RAFFRAY, T.c.)

(*Bryaxina* gen. n., *torticollis*, *armiceps*, *lucida*, *clavata*, *dimidata*, *schau-fussi*, *foreifrons*, *crassicornis*, RAFFRAY, T.c. spp. n.)

(*Bunoderus* gen. n., *carinicollis*, *longipilis* spp. n., RAFFRAY, T.c.)

(*Bythinoplectus transversiceps*, RAFFRAY, T.c. sp. n.)

(*Bythinus formaneki*, Dalmatien, FLEISCHER, Entomol. Ztg., Wien, **20**, 1901, (144), sp. n.—*B. leonhardi*, *subsolidus*, Herzegowina, REITTER, Entomol. Ztg., Wien, **21**, 1902, (1–9, mit 1 Taf.), spp. n.—*B. bodemeyeri* (221), *mohamedis*, Konstantinopel, Anatolien, (222), sp. n., REITTER, Entomol. Ztg., Wien, **22**, 1903. — *B. (Bythoxenus) guignardi* Peyerimhoff, Paris, Bul. soc. ent., **1904**, sp. n.—*B. Machacrites fagniezi*, PERRIN, Paris, Bul. soc. ent., **1905**, sp. n.)

(*Centrophthalmosis* gen. n., *inexpectus*, *sulcatus*, *reitteri*, spp. n., RAFFRAY, Paris, Ann. Soc. ent., **72**.)

Centrophthalmus guinaeensis, *abyssinicus*, *birmanus*, *sincensis*, *papuanus*, *angustipalpus*, *bicarinatus*, RAFFRAY, T.c. spp. n.

(*Cercoceroides simplex*, *tuberculatus*, RAFFRAY, T.c. spp. n.)

(*Cercoceropsis* gen. n., *longipes* sp. n., RAFFRAY, T.c.)

(*Cheniopsis* gen. n., *madecassa* sp. n., RAFFRAY, T.c.)

(*Clariger montandoni*, RAFFRAY, T.c. sp. n.)

(*Comatopselaphus parcepunctatus*, RAFFRAY, T.c. sp. n.)

(*Cryptorhinula xybarinoides*, RAFFRAY, T.c. sp. n.)

(*Ctenicellus* gen. n., *major* sp. n., RAFFRAY, T.c.)

(*Ctenisomimus* gen. n., RAFFRAY, T.c.)

(*Ctenisophus validicornis*, *bourringi*, *irregularis*, RAFFRAY, T.c., spp. n.)

(*Ctenistes crassirostris*, RAFFRAY, T.c., sp. n.)

(*Curculionellus hirtus*, RAFFRAY, T.c., sp. n.)

(*Cyathiger gracilis paatruclis, nodicornis, truncatus*, RAFFRAY, T.c., spp. n.)

Daimodes gracilipes, RAFFRAY, T.c., sp. n.)

(*Decarthron bicolor, hetschkoi, sulcipes, tritomum, arthriticum, insulare, quadraticeps, planiceps, schmitti, spinosum, vulneratum, brasilianum, minutum, tomentosum, schaufussi, planifrons, longicorne, frontale*, RAFFRAY, T.c., spp. n.)

(*Desimia cariceps*, RAFFRAY, T.c., sp. n.)

(*Diapos*'s gen. n., RAFFRAY, T.c.)

(*Diaugis* gen. n., *granulosa* sp. n., RAFFRAY, T.c.)

(*Didymoprora semipunctata*, RAFFRAY, T.c., sp. n.)

(*Drasinus* gen. n., *binodulus*, sp. n., RAFFRAY, T.c.)

(*Ectopocerus* gen. n., RAFFRAY, T.c.)

(*Eleusotamus* gen. n., RAFFRAY, T.c.)

(*Enoptostomus crassicornis*, RAFFRAY, T.c., sp. n.)

(*Ephimia subnitida*, RAFFRAY, T.c., sp. n.)

(*Ephymata* gen. n., RAFFRAY, T.c.)

(*Eremomus* gen. n., *obesus, crassicornis*, spp. n., RAFFRAY, T.c.)

(*Eupines minima*, (*Byraxis*) *longiceps*, RAFFRAY, T.c., spp. n.)

(*Euphalepsus tricarinatus, fasciculatus, dentipes, tibialis*, RAFFRAY, T.c., spp. n.)

(*Euplectus, schmitti, infossus, illepidus, (Pychnoplectus) exiguus*, RAFFRAY, T.c., spp. n.—*E. (Plectophloeus) corniculatus* Herzegowina, REITTER, Entomol. Ztg. Wien, **21**, 1902, (1-9 mit 1 Taf.), sp. n.)

(*Eupsenius gracilis*, RAFFRAY, Paris, Ann. Soc. ent., **72**, sp. n.)

(*Eurhexius serpunctatus, longicornis, megacephalus, quadriforeatus, laevis, subacuminatus, octopunctatus, reitteri, bicolor*, RAFFRAY, T.c., spp. n.)

(*Euteleia* gen. n., *levisi, triforeata, nodosa*, spp. n., RAFFRAY, T.c.)

(*Eutyphlus schmitti*, RAFFRAY, T.c., sp. n.)

(*Exallus* gen. n., RAFFRAY, T.c.)

(*Filiger validus, opacus*, RAFFRAY, T.c., spp. n.)

(*Fustiger smithi*, RAFFRAY T.c. sp. n.)

(*Fustigeropsis simplex*, RAFFRAY, T.c., sp. n.)

(*Globa laevis*, RAFFRAY, T.c., sp. n.)

(*Hamotoides nigropilosus, hirtus*, RAFFRAY, T.c., spp. n.)

(*Hamotus sternalis, boliviensis, globulifer, tibialis, punctipennis, resiculifer, bulbifer, laetus, caricornis, rugosus, bicolor, faureli, sulcipapulus, grouvellei, simplex, soror, decipiens, longepilosus, longiceps*, RAFFRAY, T.c. spp. n.)

(*Harmomima* gen. n., *grandiceps* spp. n., *impressicollis*, RAFFRAY, T.c.)

(*Hypochraeus* gen. n., *granosus*, sp. n., RAFFRAY, T.c.)

(*Itamus* gen. n., *laticeps* sp. n., RAFFRAY, T.c.)

(*Jubus brevis, gracilicornis, claratus*, RAFFRAY, T.c., spp. n.)

(*Labomimus harmandi*, RAFFRAY, T.c., sp. n.)

(*Machacrites czernohorskyi*, Herzegowina, REITTER, Entomol. Ztg. Wien, **21**, 1902, (1-9, mit 1 Taf.), sp. n.)

(*Macroplectus tasmanicus*, RAFFRAY, Paris, Ann. Soc. ent., **72**, sp. n.)

(*Melba grenadensis, dentipes, quadriforeata*, RAFFRAY, T.c., spp. n.)

(*Methorius* gen. n., RAFFRAY, T.c.)

(*Metopias carinipes*, RAFFRAY, T.c., sp. n.)

(*Miltona* gen. n., *quadraticeps, bisulciceps, mizechi, nigra*, RAFFRAY, T.c., spp. n.)

(*Mina nasuta*, RAFFRAY, T.c., sp. n.)

(*Nenemeca* gen. n., *bidentata* sp. n., RAFFRAY, T.c.)

(*Modulina* gen. n., RAFFRAY, T.c.)

(*Odontolagus gracilis, validus*, RAFFRAY, T.c., spp. n.)

(*Ophelius* gen. n., *simplex* sp. n., RAFFRAY, T.c.)

(*Ormotinus* gen. n., RAFFRAY, T.c.)

(*Phaensis relutinus*, RAFFRAY, T.C., sp. n.)

(*Phalepsus vulgaris*, *caucicornis*, RAFFRAY, T.C., spp. n.)

(*Phoberus* gen. n., *armatus* sp. n., RAFFRAY, T.C.)

(*Pselaphus pubescens*, *vestitus*, RAFFRAY, T.C., spp. n.)

(*Pselaptus politissimus*, *sternalis*, RAFFRAY, T.C., spp. n.)

(*Pseudohamotus planiceps*, RAFFRAY, T.C., sp. n.)

(*Pseudophanias elegans*, *robustus*, *tuberculatus*, *punctatus*, *puberulus*, *claratus*, RAFFRAY, T.C., spp. n.)

(*Radamellus* gen. n., RAFFRAY, T.C.)

(*Raffrayia opaca*, RAFFRAY, T.C., sp. n.)

(*Reichenbachia addahensis*, *nana*, *infelix*, *breviventris*, *bengalensis*, *grouvellei*, *nitella*, *boliriensis*, *pygidialis*, *ciatricosa*, *muscorum*, *curvipes*, *arabica*, *irrita*, *luetola*, *cherrolati*, *pilosa*, *illepida*, *fasciculata*, *compressipes*, *orientalis*, *maroccana*, *grenadensis*, *vincentiana*, *cultrata*, *globulosa*, *chiricahuensis*, *mexicana*, *oberthüri*, *appendiculata*, *obnubila*, *immodica*, RAFFRAY, T.C., spp. n.)

(*Rybaris villosa*, *convexa*, *bicarinata*, RAFFRAY, T.C., spp. n.)

(*Scalenarthrus subcarinatus*, *schanfussi*, *simplex*, *obliquus*, *claratus*, *pectinicornis*, RAFFRAY, T.C., spp. n.)

(*Schaufussia nasuta*, RAFFRAY, T.C., sp. n.)

(*Sothytes gracilis*, RAFFRAY, T.C., sp. n.)

(*Strombopsis* gen. n., *breviventris* sp. n., RAFFRAY, T.C.)

(*Subulipalpus myrmecophilus*, RAFFRAY, T.C., sp. n.)

(*Tanypleurus megacephalus*, RAFFRAY, sp. n., T.C.)

(*Thesiastes liliputanus*, RAFFRAY, T.C., sp. n.)

(*Tmesiphorus punctatus*, *arrowi*, *hispana*, *squamosus*, *aspericollis*, RAFFRAY, T.C., spp. n.)

(*Trimium longiventre*, RAFFRAY, T.C., sp. n.)

(*Trimium emonae* Reitt., Verbreitungsgebiet, PENECKE, Entomol. Ztg., Wien, 20, 1901, (11-21).)

(*Triomicrus cavernosus*, *humilis*, RAFFRAY, Paris, Ann. Soc. ent., 72, spp. n.)

(*Tychus bispina*, *sternalis*, spp. n., *bryaxioides poupillieri* var. n., RAFFRAY, T.C.—*T. depexus*, PEYERIMHOFF, Paris, Bul. soc. ent., 1905, sp. n.—*T. microphthalmus*, Algier, REITTER, Entomol. Ztg., Wien, 22, 1903, (231), sp. n.)

(*Xybarida punctulum*, RAFFRAY, Paris, Ann. Soc. ent., 72, sp. n.)

(*Xybaris quadraticeps*, *atomaria*, RAFFRAY, T.C., spp. n.)

PAUSSIDAE.

Megalopausus gen. n., *amplipennis* sp. n. Australia pl. xviii f. 5, LEA (217) Sydney N.S.W. Proc. Linn. Soc. 31.

SCYDMAENIDAE.

Cephennium hypogaeum Port-Vendres, NORMAND (106) Paris Bull. Soc. ent. 1906, sp. n.—*C. punctipenne* and *thoracicum* synonymy, FAUVEL (12) Rev. Ent. Caen, 25.

(*Cephennium* (*Megaloderus*) *bodemeyeri* sp. n., Anatolien, REITTER, Entomol. Ztg., Wien, 22, 1903, (222).)

(*Euconnus* (*Tetramelus*) *bodemeyeri* Kleinasien, Konstantinopel, REITTER, Op. cit., 23, 1903, (223), sp. n.—*E. (Tetramelus) leonhardi* Cephallonia, REITTER, Op. cit., 24, 1905, (242), sp. n.—*E. earinthiacus* Ganglb., Verbreitungsgebiet, PENECKE, Entomol. Ztg., Wien, 20, 1901, (11-21).)

(*Neuraphes* (*Scydmorephes*) *duricollis* Kleinasien, REITTER, Entomol. Ztg., (223), Wien, 22, 1903, sp. n.)

SILPHIDAE.

Larvae of *Silphidae*, tables, PEYERIMHOFF, (116-118) Paris Bull. Soc. ent. 1906.

Agathidium cribatum (419), *subcostatum* (420), Japan, *harmandi* Sikkim (421), PORTEVIN Bul. Mus. Paris 1905, spp. n.

Aglyptinus nom. n. for *Aglyptus* Lec., COCKERELL (240) Ent. News 17.

Anillocharis stenoptera sp. n. Montenegro, FORMÁNEK Entomol. Ztg. Wien 25 (151).

Apholeuonius knoteiki sp. n. Bosnien, REITTER Entomol. Ztg. Wien **25** (237).

Bathyscia alexinae, with subsp. *ittana*, Basses Pyrénées, JEANNEL (23) Paris Bull. Soc. entom. **1906**, sp. n.—*B. nadari*, (244), *normandi* (246), Ariège, JEANNEL Paris Bull. Soc. ent. **1906**, spp. n.—*B. alexinae* var. *ittana* ♀, JEANNEL Paris Bul. soc. ent. **1906** (151–152).—*B. aubei*, *foreicollis* and *spagnoloi*, larvae, PEYERIMHOFF (112–115) cuts, Paris Bull. Soc. ent. **1906**.—*B. aubei* l'aire de dispersion de, CHABAUT Nîmes Bul. soc. étud. sci. nat. **33** (167–168).

Bathysciella gen. n. for *Bathyscia jeanneli*, JEANNEL (23) Paris Bull. Soc. entom. **1906**.

Colon tenuicorne New Zealand, PORTEVIN (423) Bull. Mus. Paris 1905, sp. n.—*C. riennense* Herbst var. n. *hirtellum*, FLEISCHER Entomol. Ztg. Wien **25** (37).

Hydnobius suturalis Maroc, PORTEVIN Bull. Mus. Paris 1905 (418), sp. n.

Liocolenis gen. n. near *Colenis*, *pyg-maca* sp. n. Sikkim, PORTEVIN (422) T.c.

Liodes obesa varr. n. *mixta* and *minor*, FLEISCHER Entomol. Ztg. Wien **25** (201–209).—*L. rubiginosa* var. n. *dilatocollis* (131), *angulicollis* Reitt. is var. of *calcarata* (133), *calcarata* varr. n. *nigrescens* and *subsuleata* (134), FLEISCHER Entomol. Ztg. Wien **25**.—*L. vladimiri* sp. n. Böhmen and Mähren, FLEISCHER T.c. (147).

Liodinella gen. n. near *Pseudocolenis* (422), *strigosa* sp. n. Sikkim (423), PORTEVIN Bul. Mus. Paris 1905.

Nargus densissimus Russisch-Armenien (143), *leonhardi* Cephalonia, *turkestanicus* Samarkand, (144), spp. n., *reloz* var. n. *nigerrimus* (141), REITTER Entomol. Ztg. Wien **25**.

Neerophorus; BARKOWSKI, Insektenbörse Leipzig **23** (156).

Pelatinus nom. n. for *Pelates* Horn, COCKERELL (240) Ent. News **17**.

Pseudocolenis grandis, *lata*, (420), *strigosula* (421), Japan, PORTEVIN Bul. Mus. Paris 1905, spp. n.

Pteroloma calathoides Japan, PORTEVIN (421) T.c., sp. n.

Ptomaphagus subrillosus Goeze = (*sericeus* Fabr.) BEDEL (91) Paris Bull. Soc. ent. **1906**.

Silpha; the larvae, XAMBEU (264–266, 277, 278, 283–286) Naturaliste 1906.—*S. obscura* var. n. *distincta*, PORTEVIN (386) Bull. Mus. Paris **12**.

Sphaeroliodes gen. n. near *Amphicyllis*, *rufescens* sp. n. Japan, PORTEVIN (419) Bull. Mus. Paris 1905.

Sphaeroloma gen. n. near *Pteroloma*, *sikkimensis* sp. n. India, PORTEVIN T.c. (422).

Thanatophilus sinuatus var. n. *auripilosus*, PORTEVIN T.c. (421).

Troglophyes bedeli Pyrénées orientales, JEANNEL (275) Paris Bull. Soc. ent. **1906**, sp. n.

(*Anillocharis* gen. n. *ottonis*, Herzegovina, sp. n., (231), REITTER, Entomol. Ztg., Wien, **22**, 1903.)

(*Antroherpon matulići* sp. n., Herzegovina, REITTER, T.c. (216).)

(*Bathyscia mascavauxi*, Pyrénées, SAINTE CLAIRE DEVILLE, Paris, Bul. soc. ent., **1905**, sp. n.—*B. memausica*, CHABAUT, (76), Nîmes, Bul. soc. étud. sci. nat., **31**, 1903, sp. n.—*B. nemausica*, France, CHABAUT, Paris, Bul. soc. ent., **1903**, sp. n.—*B. bucheti*, ABEILLE DE PERRIN, Paris, Bul. soc. ent., **1905**, sp. n.—*B. jeanneli*, *elgaeae*, ABEILLE DE PERRIN, Paris, Bul. Soc. ent., **1904**, spp. n.—*B. champsauri*, *foreicollis*, subspp. n. PEYERIMHOFF, Paris, Bul. soc. ent., 1904.—*B. destefanii*, DOBERO, Naturalista sicil., Palermo, **17**, (121–123).—DE PEYERIMHOFF, Etude sur les *Bathyscia* du groupe d'*aubei* Kiesw. Paris, Bul. soc. entom., **1905**, (297–303).)

(*Catops rescissicollis*, PEYERIMHOFF, Paris, Bul. soc. ent., **1905**, sp. n.)

(*Diaprysius serrulazi*, PEYERIMHOFF, Op. cit. **1904**, (185–186), sp. n.)

(*Leonhardella* gen. n., (209), *angulicollis*, Herzegovina, sp. n., (210), REITTER, Entomol. Ztg., Wien, **22**, 1903.)

(*Leptoderus hohenwarti* subsp. n. *reticulatus*, Küstenland, Nordistrien, MÜLLER, Entomol. Ztg., Wien, **24**, 1905, (32).)

(*Liodes*, Kritische Studien, FLEISCHER, Entomol. Ztg., Wien, **24**, 1905, (269–273, 313–316); Biologie, FLEISCHER Op. cit. **23**, 1904, (251–254).)

(*Oryotus schmidti* subsp. n. *subdentatus*, Nordistrien, MÜLLER, Entomol. Ztg., Wien, **24**, 1905, (32).)

■ (*Silphanillus* gen. n., (210), *leonhardi*, Herzegowina, sp. n., (211). REITTER, Entomol. Ztg., Wien, **22**, 1903.)

(*Troglyphes ludovici*, France, CHOUBAUT, Paris, Bul. soc. ent., **1903**, sp. n.)

PLATYPSYLLIDAE.

Account of *Platypsyllidae*, DESNEUX Gen. ins. fasc. **41**.

Platypsyllus castoris, existence of mandibles, the larva, DESNEUX (103-105) Bruxelles Ann. Soc. ent. Belgique **50**.—*P. castoris*, GALIEN-MINGAUD, Le Castor du Rhône et ses parasites, Nature Paris **33** (2^e sem.) 1905 (118-119, av. fig.), and **33** 1906 (74-77, av. fig.).—*P. castoris* in France, MINGAUD T.c. (85-87).

TRICHOPTERYGIDAE.

Ptenidium (Matthewsium) compactum Tunis, DE PEYERIMHOFF (55) Paris Bull. Soc. entom. **1906**, sp. n.

Trichopteryx fascicularis, larva noticed, MÖBERG (141) Zs. wiss. Insektenbiol. **2**.

HISTERIDAE.

Abraeus setiger Portuguese Guinea, LEWIS (405) Genova Ann. Mus. **42**, sp. n.

Apobletes marginicollis and *schaumi* distinguished, LEWIS (339) Ann. Mag. Nat. Hist. **17**; *A. runensis* New Guinea, id., l.c., sp. n.—*A. excavatus* Nilgiri hills (182), *mitis* Madagascar (183), LEWIS Op. cit. **18**, spp. n.—*A. macer* Gulf of Guinea, LEWIS (399) Genova Ann. Mus. **42**, sp. n.

Asolemus gen. n., type *Notolister sanguinosus*, LEWIS (189) Ann. Mag. Nat. Hist. **18**.

Atholus; a valid genus, characters and components, LEWIS (402) T.c.—*A. quatuordecimstriatus* distinguished from *duodecimstriatus*, LEWIS (255) Ent. Mag. London **42**.

Contipus oblongus Pretoria (340), *immarginatus* Somaliland (341), LEWIS, Ann. Mag. Nat. Hist. **17**, spp. n.—*C. fractistrius* (185), *proximus* (186), W. Africa, LEWIS Op. cit. **18**, spp. n.—

C. sinuosus Portuguese Guinea, LEWIS (399) Genova Ann. Mus. **42**, sp. n.

Epiglyptus gen. n. for *Hister costalus* Mars., LEWIS (342) Ann. Mag. Nat. Hist. Ser. **7**, **17**.

Epitorus hacres Portuguese Guinea, LEWIS (403) Genova Ann. Mus. **42**, sp. n.

Grammostethus gen. n. for part of *Hister* (400), *sinensis* sp. n. Ichang (401), LEWIS Ann. Mag. Nat. Hist. Ser. **7** **18**.

Hister fractistrius Burma (342), *sodalis* Yunnan (343), LEWIS Op. cit. **17**, spp. n.—*H. aeneus* Angola, LEWIS (186) Op. cit., sp. n.—*H. (Phelister) gentilis* Horn, LEWIS (403) T.c.—*H. bipustulatus* Schr. (= *finetarius* Hbst.), *H. daldorffi* nom. n. (Bedel) for *bipustulatus* Fabr., BEDEL (91) Paris Bull. Soc. ent. **1906**.

Hololepta sternalis Ashanti, LEWIS (337) Ann. Mag. Nat. Hist. Ser. **7** **17**, sp. n.

Idister mendax Mentawai island, LEWIS (184) Op. cit. **18**, sp. n.

Lioderma patulum Peru, LEWIS (181) T.c., n. sp.

Liopygus punctatus Lombok, LEWIS (340) Op. cit. **17**, sp. n.—*L. andrewesi* Nilgiri Hills, LEWIS Op. cit. (398), sp. n.

Microliaster gen. n. near *Hister*, *coronatus* sp. n. Fernando Po, LEWIS (400) Genova Ann. Mus. **42**.

Notolister, characters; *N. unistrius* (187), *catenatus* (188), *oratus* (189), Madagascar, spp. n., LEWIS Ann. Mag. Nat. Hist. Ser. **7** **18**.—*N. nodicornis* Madagascar, LEWIS (344) Op. cit. **17**, sp. n.

Pachycraerus laticeps E. Africa, LEWIS (190) Op. cit. **18**, sp. n.—*P. nigrans* (402), *frontalis* (403), Africa occ., LEWIS Genova Ann. Mus. **42**, spp. n.

Pachylister pygidialis Yunnan, LEWIS (399) Ann. Mag. Nat. Hist. ser. **7** **18**, sp. n.

Paromalus longicornis Gulf of Guinea, LEWIS (401) Genova Ann. Mus. **42**, sp. n.

Pclorurus feae Portuguese Guinea, LEWIS (404) T.c., sp. n.—*P. ruptistrius* Abyssinia, LEWIS (190) Ann. Mag. Nat. Hist. ser. **7** **18**, sp. n.

Peranus **gen. n.** for part of *Hister*, LEWIS (401) T.c.

Plaesus bengalensis Darjiling (338), *ruptistrius* New Guinea (339), LEWIS Op. cit. **17**, **spp. n.**—*P. edentulus* New Britain, LEWIS (182) Op. cit. **18**, **sp. n.**

Platylister placitus New Guinea, LEWIS (184) T.c., **sp. n.**—*P. niponensis* Japan, LEWIS T.c. (398), **sp. n.**

Platysoma sibiricum and *deplanatum* distinguished, LEWIS (340) Op. cit. **17**.

Santalus **gen. n.** for part of *Hister*, type *piraticus* Lew., LEWIS (341) T.c.—*S. piraticus* Lew. (399) fig. 1, LEWIS Op. cit. **18**.

Spathochus coyei var. *n. nigrinus*, Palästina, REITTER Entomol. Ztg. Wien **25** (32).

Spilodiscus **gen. n.** for part of *Hister*, type *arcuatus* Say, LEWIS (343) Ann. Mag. Nat. Hist. ser. **7** **17**.—*S. arcuatus* Say, LEWIS (399) fig. 3 Op. cit. **18**.

Teretrius rectistrius Madagascar, LEWIS (181) T.c., **sp. n.**

Zabromorphus **gen. n.** type *Hister pachysomus* Ancey, LEWIS (399) T.c.

(*Abraodes raddei* Reitt., Vorkommen in Siebenbürgen, PENECKE, Entomol. Ztg., Wien, **20**, 1901 (11–21).)

(*Abraeus zoppae* sp. n., Siebenbürgen, PENECKE, T.c. (11–21).)

(*Hister*-Arten mit abnormer Flügeldeckenstreifung, PENECKE, T.c. (11–21).)

(*Xenonychus rotundatus*, FIORI, Naturalista sicil., Palermo, **18**, 1905, (4–7), sp. n.—*X. rotundatus* FIORI è sinonimo di *Saprinus coniungens* Payk., FIORI Naturalista sicil. Palermo **18** (96).)

NITIDULIDAE.

Amphicrossus fairmairei Madagascar, GROUVELLE (82) Paris Ann. Soc. ent. **75**, **sp. n.**

Amystrops **gen. n.** voisin de *Mystrops*, *modiglianii* (312), *punctatus* (313), Sumatra, **spp. n.**, GROUVELLE Genova Ann. Mus. **42**.

Brachypeplus (*Leiopeplus*) *plagiati-pennis* Madagascar, GROUVELLE (67) Paris Ann. Soc. ent. **75**, **sp. n.**—*B. rufopiceus* (308), *undulatus* (309),

Nouvelle Guinée, GROUVELLE Genova Ann. Mus. **42**, **spp. n.**

Carpophilus picus Madagascar, GROUVELLE (72) Paris Ann. Soc. ent. **75**, **sp. n.**—*C. proximus* Paraguay (310), *loriae* Nouvelle Guinée (311), GROUVELLE Genova Ann. Mus. **42**, **spp. n.**

Cillacus ambiguus (= *castaneus* Murray), *alluaudi*, *argodi*, (69), *rufulus*, *fairmairei*, (70), Madagascar, GROUVELLE Paris Ann. Soc. ent. **75**, **spp. n.**

Circopes bimaculatus, *decorsei*, (80), *pubescens*, *tomentosus*, (81), Madagascar, GROUVELLE T.c., **spp. n.**

Colastus centralis Costa Rica, GROUVELLE (113) Rev. ent. Caen **25**, **sp. n.**

Cryptareha sicardi Madagascar, GROUVELLE (93) Paris Ann. Soc. ent. **75**, **sp. n.**

Cychramus beccarii Celebes, GROUVELLE (324) Genova Ann. Mus. **42**, **sp. n.**

Epuraea parvula, pabulum is *Daldinia concentrica*, BAGNALL (229) Ent. Mag. London **42**.—*E. pusilla* subsp. n., *bickhardtii*, BICKHARDT Entomol. Ztg. Wien **25** (294).—*E. ragusae* sp. n. Sicilien, REITTER Natural. sicil. **18** (219).—*E. propinqua* (315), *emarginata* (316), Birmanie, GROUVELLE Genova Ann. Mus. **42**, **spp. n.**

Haptoncus opaculus Timor (317), *murrayi* Iles Mentawai, *nigritulus* Sumatra, (318), *insularis* Timor (319), *sordidus* (320), *gestroi* (321), Nouvelle Guinée, GROUVELLE T.c., **spp. n.**—*H. picinus* (73), *dispersus* (74), Madagascar, GROUVELLE Paris Ann. Soc. ent. **75**, **spp. n.**

Ips 4 - *pustulata* metamorphosis, Mjöberg (2–6) pl. i figs. 1–3 Uppsala Arkiv. Zool. **3** No. 6.

Labromimus doriae Borneo, GROUVELLE (331) Genova Ann. Mus. **42**, **sp. n.**

Meligethes atomus, *instabilis*, Madagascar, GROUVELLE (78) Paris Ann. Soc. ent. **75**, **sp. n.**

Meligethinus **gen. n.**, entre *Pria* et *Meligethes*, *humeralis* sp. n. Angola, GROUVELLE (202) Paris Bull. Soc. ent. **1906**.

Neopocadius **gen. n.** near *Lasiodaetylus*, *nitiduloides* sp. n. Argentina, GROUVELLE (214) T.c.

Nitidula carnaria, pupa, MJÖBERG (7) pl. i f. 4 Uppsala Arkiv. Zool. 3 No. 6.

Pallodes loriae (327), *beccarii* (328), *misellus*, *gestroi*, (329), Nouvelle Guinée, *opacus* Iles Arou (333), GROUVELLE Genova Ann. Mus. 42, spp. n.—*P. orthogonius*, *scutatus*, (84), *sicardi* (85), *aestimabilis*, *nitidus*, (86), *nigrocyanus* (87), *militaris*, *aterrimus*, (88), *niger* (89), *perrieri* (90), *scutellaris* (91), Madagascar, GROUVELLE Paris Ann. Soc. ent. 75, spp. n.

Perilopa seriata Amazons, GROUVELLE (114) Rev. Ent. Caen 25, sp. n.

Platychorinus gen. n. voisin des *Aethina*, *dilutus* sp. n. Ile Damma, GROUVELLE (201) Paris Bull. Soc. ent. 1906.

Pocadites bouchardi Borneo, GROUVELLE (323) Genova Ann. Mus. 42, sp. n.

Pria crassa (75), *pygidialis* (76), *parvula* (77), Madagascar, GROUVELLE Paris Ann. Soc. ent. 75, spp. n.

Prometopia bisignata Ternate, GROUVELLE (322) Genova Ann. Mus. 42, sp. n.—*P. marginata* Cambodia, GROUVELLE (115) Rev. Ent. Caen 25, sp. n.

Pseudocampiodes fulviceps Nouvelle Guinée (325), *punctatus* Java (326), GROUVELLE Genova Ann. Mus. 42, spp. n.

Pseudostelidota gen. n. (115), *setosa* Brazil sp. n. (116), GROUVELLE Rev. Ent. Caen 25.

Rhizophagus parallellocollis, in skeleton in grave, JOY (256) Ent. Mag. London 42.—*R. perforatus* on mouldy bone, DE LA GARDE (231) Ent. Mag. London 42.—*R. tauricus* = (*lanatus* Fairm.), BEDEL (92) Paris Bull. Soc. ent. 1906.

Stelidota vicina Argentine, GROUVELLE (332) Genova Ann. Mus. 42, sp. n.

Strongylus fairmairei nom. n. pro *S. ruficeps* Fairmaire, *S. sicardi* sp. n. Madagascar, GROUVELLE (83) Paris Ann. Soc. ent. 75.

(*Rhizophagus branesiki*, Herzegowina, Südbosnien, REITTER, Entomol. Ztg., Wien, 24, 1905, (312), sp. n.)

MONOTOMIDAE.

Bactridium humile Key isld. (122), *parvum* Sumatra (123), GROUVELLE Rev. Ent. Caen 25, sp. n.

Europs crenicollis Madagascar, GROUVELLE (127) Paris Ann. Soc. ent. 75, sp. n.—*E. gestroi* Nias isld. (119), *mariae* Sumatra (120), GROUVELLE Rev. Ent. Caen 25, sp. n.

Mimemodes frigidus New Guinea, GROUVELLE (121) T.c., sp. n.

Monotoma madagascariensis Madagascar, GROUVELLE (126) Paris Ann. Soc. ent. 75, sp. n.

TROGOSITIDAE.

(*Aerops perrandieri*, LÉVEILLÉ, Paris, Ann. Soc. ent., 74, sp. n.)

(*Airora vicina*, *ferruginea*, LÉVEILLÉ, T.c. spp. n.)

(*Ancyrona brunnea*, *A. elongata*, FAIRMAIRE, Paris, Ann. soc. ent., 74, spp. n.)—*A. feai*, *Congolensis*, *brunneolimbata*, *javanica*, LÉVEILLÉ, Paris, Bul. soc. ent., 1905, spp. n.)

(*Corticotomus sharpi*, LÉVEILLÉ, Paris, Ann. soc. ent., 74, sp. n.)

(*Lophocateres gounellei*, LÉVEILLÉ, Paris, Bul. soc. ent., 1905, sp. n.)

(*Temnochila grilloi*, LÉVEILLÉ, T.c. sp. n.)

(*Tenebroides boggianii*, LÉVEILLÉ, T.c. sp. n.—*T. similis*, *nigro-cyanus*, *passeti*, LÉVEILLÉ, T.c. spp. n.)

COLYDIIDAE.

Caprodes perrieri Madagascar, GROUVELLE (104) Paris Ann. Soc. ent. 75, sp. n.

Cautomus armatus Madagascar, GROUVELLE (115) T.c., sp. n.

Cerylon solidum, *insulare*, (111), *singulare* (112) pl. vii f. 8, *perrieri* (113), Madagascar, GROUVELLE T.c., spp. n.

Cicones insularis to *Diplotoma*, GROUVELLE (104) T.c.

Colydium antennatum and *giganteum* Kr. to *Mecedanum*, GROUVELLE (107) T.c.

Diplotoma transvaalica to *Caprodes*, GROUVELLE (104) T.c.

Ditomoidea gen. n. near *Endophloeus*, *alluandi*, (94), *fairmairei*, *tuberosa*, (95), spp. n., Madagascar, GROUVELLE T.c.

Eudesmula nom. n. for *Eudesma* Lec., COCKERELL (241) Ent. News 17.

Leptoglyphus orientalis Sumatra, GROUVELLE (117) Rev. Ent. Caen **25**, sp. n.

Meecdanum earinifrons (105), *punctatum* (106), Madagascar, GROUVELLE Paris Ann. Soc. ent. **75**, spp. n.

Metacerylon gen. n., *parallelum* sp. n. Madagascar, GROUVELLE (110) T.c.

Philothermus seminiger Madagascar, GROUVELLE (115) T.c., sp. n.

Phloeodalis reitteri Cayenne, GROUVELLE (123) Rev. Ent. Caen **25**, sp. n.

Rhechodes spinosus (96), *dorsalis* (97), *sicardi*, *interruptus*, (98), *fairmairei* (99), *brevicornis* (100), *minimus* (101), Madagascar, GROUVELLE Paris Ann. Soc. ent. **75**, spp. n.

Sosylus = (*Metapiestes* Pasc. = (*Pycnocephalus* Kr.), *S. bistriatus* Fairm. = (*P. angustus* Kr.), GROUVELLE (109) T.c.—*S. frater* (107), *earinifrons* (108), Madagascar, GROUVELLE T.c., spp. n.

(*Cautomus monstruosus*, GROUVELLE, Paris, Bul. soc. ent., **1905**, sp. n.)

(*Helioctamenus lusitanicus*, REITTER, Entomol. Ztg., Wien, **22**, 1903, (174), sp. n.)

CUCUJIDAE.

Hemipeplus madagascariensis Madagascar, GROUVELLE (116) Paris Ann. Soc. ent. **75**, sp. n.

Inopeplus angulicollis Tasmania pl. xviii f. 6, LEA (218) Sydney N.S.W. Proc. Linn. Soc. **31**, sp. n.—*I. major* Madagascar, GROUVELLE (117) Paris Ann. Soc. ent. **75**, sp. n.

Laemophloeus brevipennis (119), *alluandi*, *mirificus*, (120), *perrieri* (121), *fairmairei* (122), Madagascar, GROUVELLE T.c., spp. n.—*I. integer* Nias isld., GROUVELLE (118) Rev. Ent. Caen **25**, sp. n.

Shoguna sicardi Madagascar, GROUVELLE (125) Paris Ann. Soc. ent. **75**, sp. n.

(*Laemophloeus* (*Silranophloeus*) *mirus*, Madagascar, GROUVELLE, Paris, Bul. Soc. ent., **1905**, sp. n.).

CRYPTOPHAGIDAE.

Metamorphoses of several species, XANBEU Naturaliste 1906 (101–103, 120–121).

Cryptophagus subfumatus metamorphosis, MJÖBERG (14) pl. v figs. 5 and 6 Uppsala Arkiv. Zool. **3** No. 6.

Diphyllus alluandi, *undulatus*, (128), *magnus* (129), *maculatus*, *concolor*, (130), *canaliculatus* (131), *variegatus* (132), *sordidus*, *parrulus*, (133), *notatus* (134), *histrio* (135), *sicardi* (136), Madagascar, GROUVELLE Paris Ann. Soc. ent. **75**, spp. n.

Hapalips alluandi Madagascar, GROUVELLE (138) T.c., sp. n.

Henoticus germanicus sp. n. Koblenz, REITTER, Entomol. Ztg. Wien **25** (231).

Micrambe consors, *opaeulus*, (140), *modestus*, *apicalis*, (141), Madagascar, GROUVELLE Paris Ann. Soc. ent. **75**, spp. n.

Paramecosoma breve Madagascar, GROUVELLE (139) T.c., sp. n.

LATHRIDIIDAE.

Corticaria denticulata, copula, MJÖBERG (13) Uppsala Arkiv. Zool. **3**, No. 6.

Dasycerus ionicus var. n. *italica*, PIC (9) Echange **22**.

Lathridius dolichocephalus W. Australia, *obsoletus*, (220), *denticollis*, *serratus*, (221), Tasmania, LEA Sydney N.S.W. Proc. Linn. Soc. **31**, spp. n.

Metophthalmus (*Bonvouloiria*) *kabylianus* sp. n. Algier, CHABAUT Entomol. Ztg. Wien **25** (256).

(*Coluocera fleischeri* Dalmatien, REITTER. Entomol. Ztg. Wien, **21**, 1902, (1–9, mit 1 Taf.) sp. n.)

(*Dasycerus beloni*, *numidicus*, Algérie, PIC, Rev. ent., Caen, **24**, 1905, spp. n.)

(*Enicmus anatolicus*, *E. rarendorffii*, Griech. (234), REITTER, Entomol. Ztg. Wien, **22**, 1903, spp. n.)

MYCETOPHAGIDAE.

Berginus madagascariensis Madagascar, GROUVELLE (144) Paris Ann. Soc. ent. **75**, sp. n.

Litargus insolitus (142), *madagascariensis* (143), Madagascar, GROUVELLE T.c., **spp. n.**

(*Satorystia* gen. n., *meschniggi*, Ungarn, (243), REITTER, Entomol. Ztg, Wien, **24**, 1905, (243).)

THORICTIDAE.

(*Thorictus peyerimhoffi*, Arabie, CHABAUT, Paris, Bul. soc. ent., **1904**, (243-245), sp. n.)

DERMESTIDAE.

Dermestes, characters of larvae, XAMBEU (199-202, 214-216) Naturaliste 1906.—*D. haemorrhoidalis*, early stages, MJÖBERG (9-11) Uppsala Arkiv. Zool. **3** No. 6.

Hadrotoma corticalis var. n. *semilimbata*. PIC (9) Echange **22**.

(*Dermestes murinus* subvar. n. *auriceps*, Ostsibirien, REITTER, Entomol. Ztg. Wien, **24**, 1905, (244).)

BYRRHIDAE.

Curimus anatolicus Asia Minor, GANGLBAUER (275) Wien Ann. Hofmus-**20**, **sp. n.**

Morychus heteromerus vide *Caedimorpha* in *Tenebrionidae*.

PARNIDAE.

Ancyronyx humeralis Kilimandjaro, GROUVELLE (328) Paris Ann. Soc. ent. **75**, **sp. n.**

Dryops rufiventris Madagascar, GROUVELLE (147) T.c., **sp. n.**—*D. brevitarsis* Kilimandjaro, GROUVELLE (316) T.c., **sp. n.**

Dupophilus insignis Reitt., Beschreibung, REITTER Entomol. Ztg. Wien **25** (21).

Elmidolia soror (150), *sordida* (151), *stulta*, *crassa*, (152), *odiosa*, *conspecta*, (156), *conspicua* (157), Madagascar, GROUVELLE Paris Ann. Soc. ent. **75**, **spp. n.**

Elmis rollmari Panz. neu für St. Petersburg. MAZARAKIJ St. Petersburg Hor. Soc. Ent. Ross. **37** (xcvii-xcix).

Helminthocharis gen. n., *pieea* sp. n. Kilimandjaro, GROUVELLE (321) Paris Ann. Soc. ent. **75**.

Helminthopsis, gen. n., *lucida*, (319), *dissimilis* (320), **spp. n.**, Afrique or., GROUVELLE T.c.

Helmis fossulata, a valid sp., SAINTE-CLAIRE DEVILLE Abeille Paris **30** (238).—*H. subfuliginosa* Madagascar, GROUVELLE (149) Paris Ann. Soc., ent. **75**, **sp. n.**

Latelmis cecconii sp. n. Italien, REITTER Entomol. Ztg. Wien **25** (239).

Limnius trilineatus Madagascar, GROUVELLE (148) T.c., **sp. n.**

Lobelmis subnigra Kilimandjaro, GROUVELLE (318) T.c., **sp. n.**

Microdes sinensis Yunnan, GROUVELLE (125) Rev. Ent. Caen **25**, **sp. n.**

Microdinodes gen. n., *quadrifasciatus*, (324), *melaenus* (325), **spp. n.**, Afrique or., GROUVELLE Paris Ann. Soc. ent. **75**.

Pachyelmis silvatica (157), *ingens*, *regimbarti*, (153), *obliqua* (159), Madagascar, GROUVELLE T.c., **spp. n.**—*P. amoena* Kilimandjaro, GROUVELLE (322) T.c., **sp. n.**

Potamodytes latus, *perrieri*, Madagascar, GROUVELLE (145) T.c., **spp. n.**—*P. oxyptera* and *abdominalis* distinguished, GROUVELLE T.c. (146).

Pseudomaecronychus gen. n. (326), *eastaneus* sp. n. Afrique or. (327), GROUVELLE T.c.

Stenelmis alluaudi Kilimandjaro, GROUVELLE (317) T.c., **sp. n.**

HETEROCERIDAE.

Heterocerus laevigatus, metamorphosis, KLUNZINGER Verh. D. zool. Ges. **16** (218-222).—*H. fluvialis* Italia, FIORI Riv. Col. ital. **4** (257), **sp. n.**—*H. montanus* (163), *fairmairei*, *alluaudi*, (164), *vulpes* (165), *perrieri* (166), *dubitabilis* (167), Madagascar, GROUVELLE Paris Ann. Soc. ent. **75**, **spp. n.**—*H. ornatus* (329), *inquinatus* (330), Afrique or., GROUVELLE T.c., **spp. n.**

(*Heterocerus* (*Littorimus*) *conjungens*, GROUVELLE, Mission Pavie, **3**, sp. n.)

LUCANIDAE.

Zur Systematik und Nomenclatur der Lucaniden, ZANG D. ent. Zs. Berlin 1906 (93-95).

Lucanidi raccolti nell' Africa occidentale, 7 spp., variation and sexes, GRIFFINI Genova Ann. Mus. 42 (135-148).

Aegus acuminatus var. n. *mandibularis*, MÖLLENKAMP Ent. Zs. Guben 20 (156, 170, 171).—*A. latidens* Schaaf., omitted from Munich Catalogue, ZANG (94) D. ent. Zs. Berlin 1906.

Allotopus moseri sp. n. Malakka MÖLLENKAMP (211) Ent. Zs. Guben 20.

Ceratognathus and *Mitophyllus*, synonymy of species, *M. parryanus* = (*zealandicus* Br.), ZANG (95) D. ent. Zs. Berlin 1906.

Cyclommatus incognitus sp. n. Perak, MÖLLENKAMP Insektenbörse 23 (31-32).—*C. rangifer* = (*tarandus* Thunb.) ZANG (94) D. ent. Zs. Berlin 1906.

Doreus meeki New Guinea, BOILEAU (92) fig. 1 Naturaliste 1906, sp. n.—*D. opaeipennis*, *rosti*, Kashmir ZANG (184) D. ent. Zs. Berlin 1906, spp. n.—*D. suturalis* Westw. = (*opaeipennis* Zang) ZANG T.c., (327).

Hexarthrus buqueti, variation, GRIFFINI Zool. Anz. Leipzig 30 (899-905).

Lucanus cerus, kämpfend, AMMANN Natur u. Glaube Leutkirch 9 (139-140).—*L.*, nymph, PLANET (209) fig. 1 Naturaliste 1906.

Mesotopus, taxonomy, ZANG (93) D. ent. Zs. Berlin 1906.

Metopodontus haequardi, FELSCH (352) D. ent. Zs. Berlin 1906.—*M. haequardi* = (*unhangi* Fairm.) ZANG (93) D. ent. Zs. Berlin 1906.—*M. magnificus* Australia sp. n., *torresensis* var. n. *flavoguttatus*, *bison* var. n. *tumidicollis*, MÖLLENKAMP Insektenbörse 23 (31-32).

Odontolabis lourei, variation, GRIFFINI Milano Atti Soc. ital. 45 (111-139).—*O. ludekingi* var. n. *robustus*, ROON (271) pl. xiii's Gravenhage Tijdschr. Ent. 49.—*O. signatipennis* sp. n. Sumatra, *O. ludekingi* var. n. *monticola*, MÖLLENKAMP (170) Ent. Zs. Guben 20.

Platycecrus opacus sp. n. California, FALL (393) Ent. News 17.

(*Ceratognathus macrognathus*, *flabelatus* spp. n., BOILEAU, Naturaliste, 27, 1905, (176).)

(*Cyclommatus imperator*, *lunifer*, BOILEAU, T.c. (176), spp. n.

(*Doreus* (*Eurytrachelus*) *brachycecrus*, BOILEAU, Paris, Bul. Soc. ent., 1904, (27-28), sp. n.—*D. (Macro-doreus) rugosus*, BOILEAU, Paris, Bul. Soc. ent., 1904, (39-40), sp. n.)

(*Eurytrachelus* (*Serrognathus*) *titan typhon* var. n., BOILEAU, Naturaliste, 27, 1905.)

(*Lissotes cornutus*, BOILEAU, T.c. (176), sp. n.)

(*Metopodontus biplagiatus nigripes* var. n., BOILEAU, T.c.)

(*Nigidius helleri*, *impressicollis*, *levisi*, *baeri*, *bonneuili*, BOILEAU, T.c. spp. n.)

(*Odontolabis parryi*, BOILEAU, T.c. sp. n.)

(*Aegus jansoni*, BOILEAU, T.c. sp. n.)

(*Prosopocoelus laminifer* sp. n., BOILEAU, T.c. (176).)

(*Pseudolucanus lesnei* PLANET, Naturaliste, Paris, 27, 1905, (212-213, av. fig.), sp. n.)

(*Syndesius macleayi*, *punctatus*, BOILEAU, Naturaliste, 27, 1905, spp. n.)

PASSALIDAE.

Notes on classification and synonymy, with corrections of Kuwert, etc., ARROW (441-451) London Trans. ent. Soc. 1906. Annotated list of types in the Oxford Museum, T.c. (444, 445).

Basilianus; revision, ZANG (176-183) D. ent. Zs. Berlin 1906.

Cetejus sodalieius sp. n. Neu Guinea, ZANG Wichmann Nova Guinea 5 (25).

Chilomazus borealis Assam, ARROW (467) London Trans. ent. Soc. 1906, sp. n.

Didymus curvilineatus E. Africa (462), *congoensis* W. Africa, *laevisternus* E. Africa, (463), *ruwenzoricus* (464), *crassus*, (465), Uganda, ARROW T.c., spp. n.

Epiphoroneus gen. n. (445), *occipitalis* Esch. = (*tetragonus* Hope = *quadrifrons* Perch.) (460) ARROW T.c.

Erionomus platypleura E. Africa, ARROW (461) T.c., sp. n.

Eumelosomus affinis Uganda, ARROW (465) T.c., sp. n.—*E. aloysii-sabaudiae*, Ruwensori, PANGELLA Torino Boll. Musei zool. anat. 21 N. 540, spp. n.

Eumelus nasutus Ecuador, ARROW (459) London Trans. ent. Soc. 1906, sp. n.

Leptaulacides papuanus (23), *analisis* (24), spp. n., Neu Guinea, ZANG Wichmann Nova Guinea 5.—*L. pulchellus* New Guinea, ARROW (466) London Trans. ent. Soc. 1906, sp. n.

Nelcides antillarum Grenada, ARROW (452) T.c., sp. n.

Oileus, synonymy and species, ARROW (448) T.c.

Petrejus archidonae Ecuador, *peruvianus* Peru, (456). *spinosus* Ecuador, (457), ARROW T.c., spp. n.

Tetraracus centralis Costa Rica, ARROW (453) T.c., sp. n.

Triacnurgus solidus Guatemala, ARROW (452) T.c., sp. n.

Veturius isthmicus Costa Rica (453), *punctatostriatus* Brit. Guiana (454), *peruvianus* Peru (455), ARROW T.c., spp. n.

SCARABAEIDAE.

Tableaux de détermination des Lamellicornes de France, LE COMTE, Nîmes, Bul. soc. étud. sci. nat., 33, 1906, (136–141).

Locomotor organs of larvae, LEISEWITZ.

Coprini.

Aus dem Leben der Dungkäfer, KOLBE Aus d. Natur Stuttgart 1 1906 (641–648, 678–685, 722–729).

Synonymic catalogue of *Geotrupidae*, (1–44) BOCCOMONT.

Aphodius basalis, nom. n. for *plagiatus* Raffr., *ballioni*, nom. n. for *thoracicus* Roth, SCHMIDT (410) D. ent. Zs. Berlin 1906.—*A. bonnairei* (*cuniculorum* May.), BEDEL (92) Paris Bull. Soc. ent. 1906.—*A. edithae* Ordubad, *stolzi* Corfu, *bachofeni* Turkestan, spp. n., REITTER

D. ent. Zs. 1906 (435–442).—*A. (Mellinopterus) meuseli* sp. n. Sibiren, REITTER Entomol. Ztg. Wien 25 (32).—*A. prodromus* var. n. *ueberi* (436), *comma* var. n. *incomma* (440), REITTER D. ent. Zs. 1906.—*A. Amidorus zangi* Orenburg, *figuratus* Turkestan, spp. n., SCHMIDT D. ent. Zs. 1906 (410–411).

Ateuchus; Verirrungen des Instinkts, FAUSSEK St. Petersburg Hor. Soc. Ent. Ross. 37 (lxxix).—*A. sacer*, Instinkt FAUSSEK St. Petersburg Zap. Russ. Geogr. Obsč. 27 (1 + 1-192 + 1) mit 64 Abb. i. T. u. 4 Taf.

Bolboceras gallicum, mœurs du, BÉGUIN Paris Bul. soc. ent. 1906 (93–94); *Bolboceras gallicum*, MOLLANDIN Paris Bull. soc. ent. 1906 (178).—*B. Stenaspidius ruficornis* sp. n. N. S. Wales D. ent. Zs. 1906 (452).

Bolbocerosoma, gen. n. for *Scarabaeus faretus* Fabr., SCHAEFFER (254) Philadelphia Pa. Trans. Amer. Ent. Soc. 32.

Bradycinetulus, nom. n. = *Bradycinetus* Horn, COCKERELL (242) Ent. News 17.

Bradycinetus carinatus sp. n. (251), *serratus* var. n. *peninsularis* (252), SCHAEFFER Philadelphia Pa. Trans. Amer. Ent. Soc. 32.

Copris arizonensis sp. n. Huachuca mts., SCHAEFFER (254) T.c.—*C. draco* W. Africa, ARROW (127) Ann. Mag. Nat. Hist. ser. 7, 18, sp. n.—*C. lunaris* Moskau, SEMENOV Rev. russ. ent. 6 (24–25).

Coptorrhina angolensis Huilla, ARROW (129) Ann. Mag. Nat. Hist. ser. 7, 18, sp. n.

Eurypodea, gen. n., near *Phanaeus fredericki* sp. n. Venezuela, Klages Scarab. south Venez.

Geotrupes; stridulation, SCHOLZ Insektenbörse 23 (86–87).

Heliocopris cuneifer Abyssinia, LESNE (505) Bul. Mus. Paris 1906, sp. n.

Idiostoma landbecki Phil. (as *Oryctes*?) = (*Phyllognathus paulseni* and *simplicifrons* Fairm., FELSCH (350) D. Ent. Zs. 1906.

Lethrus apterus, Lebensweise und Metamorphose, SCHREINER St. Petersburg Hor. Soc. Ent. Ross. 37 (197–208) mit Taf. I.

Notocaulus laticollis Angola, ARROW (130) Ann. Mag. Nat. Hist. ser. 7 **18**, sp. n.

Ochodaenus planifrons (269), *inarmatus* (270), Arizona, *estriatus* California (271), SCHAEFFER Canad. entomol. **38**, spp. n.

Onitis aethiops Abyssinia, LESNE (106) Bul. Muséum Paris 1906, sp. n.

Onthophagus grossepunctatus und *oratus*, Kopulationsapparat, MÜLLER Entomol. Ztg. Wien **25** (151).—*O. macleayi* ♂, *bipustulatus* characters, BLACKBURN (263) Adelaide S. Aust. Trans. R. Soc. **30**.—*O. tissoni* sp. n. Syrien, REITTER Entomol. Ztg. Wien **25** (33).—*O. curvifrons* sp. n. Liberia, ORBIGNY Leiden Notes Mus. Jentink **28** (134-136).—*O. vulpinaris* sp. n. Neu Guinea, SCHÖNFELDT Nova Guinea Leide **5** Livr. 1 (29).

Orphnus cf. *Phyllognathus* in *Dynastini*.

Phycochus sulcipennis and *graniceps*, eyes, LEA (222) Sydney N.S.W. Proc. Linn. Soc. **31**.

Pleocoma hoppingi sp. n. California, FALL (394) Ent. News **17**.

Silphodes dispar Westw., ARROW (130) Ann. Mag. Nat. Hist. ser. 7 **18**.

Thorectes: list of european, FRANÇOIS (251, 252) Abeille **30**.

The following *Coprini* have been previously recorded in the Zoological Record:—

(*Allotrypes* subgen. n., near *Thorectes*, FRANÇOIS, Paris, Bul. soc. ent., **1904**.)

(*Aphodius* (*Esymus*) *cuniculorum*, MAYET, Paris, Bul. soc. ent., **1904**, (130-132), sp. n.—*A. blaisdelli*, *knausii*, Kansas and California, FALL, Ent. News, **16**, 1905, (129-131), spp. n.)

(*Bolboceras tacumonensis*, BOUCOMONT, Paris, Bul. Soc. ent., **1903**, (260-261), sp. n.)

(*Caccobius globaticeps*, *mixtus*, *biceps*, *semiluteus*, *postluteus*, *semiaeneus*, *luridens*, D'ORBIGNY, Paris, Ann. soc. ent., **74**, 1905, spp. n.)

(*Coptochirus haemonius*, Saloniki, REITTER, Entomol. Ztg., Wien, **22**, 1903, (176), sp. n.)

(*Geotrupes genestieri*, BOUCOMONT, Rev. ent. Caen, **23**, 1904, sp. n.—*G. (Thorectes) punctatolineatus*, FRANÇOIS, Paris, Bul. Soc. ent., **1904**, (139-143), sp. n.

(*Odontotrupes* subgen. n., *purpureipunctatus*, *taurus*, *rufipes*, spp. n. BOUCOMONT, Rev. ent. Caen, **23**, 1904.)

(*Onthophagus oratus* var. n., *grossepunctatus*, Süddalmatien, Südfrankreich, REITTER, Entomol. Ztg. Wien, **24**, 1905, (245).—*O. (s. str.) masaiensis*, *mixtidorsis*, *aequepubens*, *bituberans*, *laminosus*, *pullatus*, *rotundatus*, *nimbatus*, *crucenotatus*, *quadrinotatus*, *nigri-ventris*, *subrugosus*, *triimpressus*, *aerolatus*, *longulus*, *amplipennis*, *trirugatus*, *bifrons*, *geminifrons*, *camerunicus*, *mirifrons*, *sinuosicollis*, *chaleochlorus*, *ustus*, *clavisetis*, *limbibus*, *pulchellus*, *spureatus*, *simulator*, *micropunctatus*, *viriensis*, *laevissimus*, (n.n. = *laevis* d'Orbigny), *flavipennis*, *lateritatus*, *breviculus*, *boops*, *trichopygus*, *pallidus*, *alterneater* (♂ de *O. foliaceus* Lansberge), *chloroderus*, *inermiceps*, *simpliciceps*, *variegranosus*, *longipilis*, *angolanus*, *crisatus*, *bicristatus*, *semigraniger*, *rufipodex*, *hilaris*, *decoratus*, *creber*, *polyedrus*, *informis*, *asperatus*, *dilutus*, *guttiger*, *rufipennis*, *semirubens*, *atrofasciatus*, *capillosus*, *miscellus*, *tennistriatus*, *atrovirens*, (*Proagoderus*) *nasidens*, *fossidorsis*, *longefossus*, *atriclariger*, *ignitus*, *rasidorsis*, *triunguliceps* (*Phalops*) *tuberosus*, *O. mixticeps*, *asperulus*, *clausifrons*, *chryso-derus*, *gibberosus*, *gibber*, *trifidisctis*, *altilamina*, *lobaticollis*, *stellioides*, *debilis*, *subocellatus*, *ocellatus*, *fureulifer*, *bicornifer*, *inclusus*, *comatulus*, *ventrosus*, spp. n.; *pugionatus*, *rufus*, *quadraticornis*, *miricornis*, *nigrans*, *gazella*, *lusinganus*, *nigricornis*, *metal-lites*, *atriclariger*, *cyanicollis*, *brucei*, *cyanopterus*, *sublaevis*, *atrochalecus*, varr. n., D'ORBIGNY, Paris, Ann. Soc. ent., **74**, 1905.)

(*Phelotrupes variolicollis*, *indicus*, *im-marginatus*, *oberthuri*, *denticulatus*, BOUCOMONT, Rev. ent., Caen, **23**, 1904, spp. n.)

(*Rhysssemus sequensi* Obock, Cairo, REITTER, Entomol. Ztg., Wien, **22**, 1903, (176), sp. n.)

(*Thorectes armatus*, BOUCOMONT, Rev. ent., Caen, **23**, 1904, sp. n.)

Glaphyrini.

Amphicoma straussi Persia **sp. n.** (285), *A. fastuosa* var. *n. reitteri* (284), *distineta* and *rulpes* variation (289), GANGLBAUER Wien Ann. Hofmus **20**.

Melolonthini.

Amphimallus cantabricus Heyd. = (*felicitanus* Reitt.); *A. lusitanicus* (Gyll. characters and synonymy; HEYDEN Entomol. Ztg. Wien **25** (246).—*A. tanyproctoides* **sp. n.** Persien, REITTER Entomol. Ztg. Wien **25** (34).

Anoxia rattoi Mogador, ESCALERA (162) Madrid Bol. Soc. espan. **6**, **sp. n.**

Aracohoplia **gen. n.** type *Pachyenema dekindti* Nonfr.; ARROW (131) Ann. Mag. Nat. Hist. Ser. **7** **18**.

Automolus and *Caulobius* (276, 277); *A. semitifer* (283), *pictus* (284), *operculus*, *irrasus*, (285), *major* (286), **spp. n.**, Australia; BLACKBURN Adelaide S. Austr. Trans. R. Soc. **30**.

Caulobius immitis (289), *rotundus* (290), Australia, BLACKBURN T.c., **spp. n.**

Coniopholis subnitida Natal (215), *capensis* Südafrika (216), **spp. n.**, NONFRIED Stettiner ent. Ztg. **67**.

Diphucephala, revision with synonymy and the following **spp. n.**:—*puberula* (272), *pulcherrima*, *rectipennis*, (273), *sordida* (274), *crebra*, *carteri*, (275), Australia; BLACKBURN Adelaide S. Austr. Trans. R. Soc. **30**.

Elaphocera brandeiroi **sp. n.** Portugal (119); *E. bedeau* var. *n. molleri* (120); FLACH Entomol. Ztg. Wien **25**.

Haplonycha neglecta, *antennalis*, (304), *pilosa* (305), *trichopyga*, *latebricola*, (306), *spadix*, *marginata*, (307), *longior*, *sloanei*, (308), *accepta*, *punctatissima*, (309), *paradoxa* (310), *firma*, *clypealis*, (311), *amabilis* (312), *nobilis*, *amoena*, (313), *lucifera* (314), *mauricei* (315), *egregia*, *rustica*, (316), *arvicola* (317), *electa* (318), *sabulicola*, *aequaliceps*, (319), *thoracica*, *clara*, (320), *faceta* (321), *jungi* (322), Australia, BLACKBURN Adelaide S. Austr. Trans. R. Soc. **30**, **spp. n.**

Hemietenius drescheri **sp. n.** Buchara, REITTER Entomol. Ztg. Wien **25** (34).

(N-9720 j)

Hoplia coerulea, histoire, Du Buysson Misc. ent. Narbonne **14** 1906 (1-8).—*H. (Decamera) fiorii* **sp. n.** Emilia, *H. meridionalis* var. *n. molise*, AMORE Riv. Col. ital. **4** (57-62).—*H. pentheri* Asia Minor, GANGLBAUER (282) Wien Ann. Hofmus. **20**, **sp. n.**

Hopliinae, use of incrassate legs; LONGSTAFF (93-95) London Trans. Ent. Soc. 1906.

Lachnosterna alpina ♀, KNAUS (148) Canad. Entomol. **38**.—*L. arkansana*, *pygidialis*, (257), *latidens* (258), SCHAEFFER Philadelphia Pa. Trans. Amer. Ent. Soc. **32**, **spp. n.**

Lepidiota haasei **sp. n.** Siam, NONFRIED (219) Stettiner ent. Ztg. **67**.

Leucopholis brenskei **sp. n.** Sumatra (216), *L. armata* var. *n. puluana* (217), NONFRIED T.c.

Listronyx antarcticus figs. 1 and 3, *hirsutus* figs. 2 and 4 pl. ii, BRENSKE (32) Résult. Belgica, Zoologie.

Melolontha; Schaden der Arten an Runkelrüden, POSPELOV Věst. sacharn. promysl. **7** 1 (139-143).—*M.* Flugjahre seit 1890 in den Grossherzogl. Hessischen Oberförstereien, SCHUSTER Zool. Garten Frankfurt a. M. **47** (26-28).—*M. hippocastani* at Berlin, var. statistics, WANACH (229-234) Berliner ent. Zs. **50**.

Nematophylla **gen. n.** near *Lachnosterna*, *rugosa* **sp. n.** Sumatra, ARROW (48) Ann. Mag. Nat. Hist. Ser. **7** **18**.

Octoplasia gigantea (49), *prolixa* (50), Borneo, ARROW T.c., **spp. n.**

Rhizotrogus (Amphimallus) beauprei Algérie, PIC (25) Echange **22**, **sp. n.**—*R. eieatricosus*, Aufenthaltsorte PREDIGER Insektenbörse **23** (88).—*R. praecox* **sp. n.** Umbria, LEONI (62) Rév. col. ital. **4**, **sp. n.**—*R. tschitscherini*, Lebensweise, FAUSSEK St. Petersburg Zap. Russ. Geogr. Obsč. **27** (1+1-192).

Schonherria brenskei **sp. n.** N.W. China, NONFRIED (219) Stettiner ent. Ztg. **67**.

Spaarmannia dekindti **sp. n.** Angola, NONFRIED (220) T.c.

Synelitopa sambesiana **sp. n.** Sambesi, NONFRIED (219) T.c.

(*Amphimallina* gen. n. (203), *jeurichi*, Uralfluss, sp. n., (204), REITTER, Entomol. Ztg, Wien, **24**, 1905.)

(*Chilotrogus* gen. n. (202), *panotrogoides*, Zentral-Persien, (203), sp. n., REITTER, T.c.)

(*Homaloptia fritschii*, Bosnien, REITTER, T.c. (201), sp. n.)

(*Hoplonotha* gen. n., *paviei*, FAIRMAIRE, Mission Pavie, **3**, sp. n.)

(*Lachnosterna pinguis*, FAIRMAIRE, T.c. sp. n.)

(*Pectinichelus chinensis* sp. n., REITTER, Entomol. Ztg, Wien, **24**, 1905, (202).)

Rutelini.

Anomala antennata New Mexico (1), *peninsularis* Lower California, *ludoviciana* Louisiana, (3), *tibialis* Texas (5), SCHAEFFER New York J. Ent. Soc. **14**, spp. n.—*A. cerea* (131), *funeraria* (132), Angola, ARROW Ann. Mag. Nat. Hist. Ser. **7** **18**, spp. n.—*A. tigrina* sp. n. Sumatra, NONFRIED (221) Stettiner ent. Ztg. **67**.

Antichira nevinsoni Yurimaguas, FOWLER (98) Ent. Mag. London **42**, sp. n.

Naunopopillia damarae variation, ARROW (132) Ann. Mag. Nat. Hist. Ser. **7** **18**.

(*Adoretus drurei*, PIC, Paris, Bul. soc. ent., **1905**, sp. n.)

(*Plusiotis beyeri*, Arizona, SKINNER, Ent. News, **16**, 1905, (289-292), sp. n.)

Dynastini.

Actinobolus radians Westw., Bemerkung, locality, sexes, HELLER D. ent. Zs. Berlin (96).

Anoplocephalus gen. n. *Cyclocephalides* (259), *cribrifrons* sp. n. Arizona (260), SCHAEFFER Philadelphia Pa. Trans. Amer. Ent. Soc. **32**.

Astaborus and *Pycnoschema*, components, ARROW (134) Ann. Mag. Nat. Hist. Ser. **7** **18**.

Daemonoplus flohri Mexico (269), *pehlkei* Guatemala (273), spp. n., KOLBE Stettiner ent. Ztg. **67**.

Dinoryctes gen. n. für *Oryctes truncaticollis* Fairm., FELSCHÉ D. ent. Zs. **1906** (351).

Dynastes tricornis, *lagaii*, spp. n., Dominica, VERRILL (317) Amer. J. Sci. **21**.

Lonchotus muticus = *Heteronychus foveipennis* Fairm., *L. crassus* = (*lateretus* Fairm.), FELSCHÉ (349) D. ent. Zs. Berlin 1906.

Megalosoma janus sp. n. Paraguay, FELSCHÉ T.c. (352).

Oryctes crampoli = (*ingens* Kolbe), STERNBERG (161) D. ent. Zs. Berlin 1906.—*O. cristatus* = (*crampeli* Fairm.), FELSCHÉ (351) D. ent. Zs. Berlin 1906.—*O. rhinoceros*, natural history, BANKS (143-154) pls. i-iv Philipp. J. Sci. **1**.

Pentodon dispar, synonymie, BEDEL (92) Paris Bull. Soc. ent. **1906**.

Phyllognathus cf. *Orphmus*, *P. pygmaeus* Nonfr. to *Orphmus*, FELSCHÉ (350) D. ent. Zs. Berlin 1906.

Pycnoschema carifrons Abyssinia, LESNE (507) Bul. Mus. Paris 1906, sp. n.—*P. nigra*, *polita*, Angola, ARROW (133) Ann. Mag. Nat. Hist. Ser. **7** **18**, spp. n.

Strategus beckeri (14) pl. i f. i, *adolescens* (15) f. 2, *fallaciosus* (16) f. 3, Mexiko, *piosomus* hab. ? (24) f. 5, *argentinus* Cordoba (24), *centaurus* Süd-Brasilien (29) f. 8, spp. n., KOLBE Berliner ent. Zs. **51**.

Stypotrupes itys = (*Dichodontus renkeni* Nonfr.) FELSCHÉ (352) D. ent. Zs. Berlin 1906.

Xenodorus janus = (*Heteronychus paradoxus* Boh.) FELSCHÉ (349) T.c.

Xylotropes inarmatus Java sp. n., STERNBERG D. ent. Zs. Berlin **1906** (172).

Cetoniini.

Habits of a few S. African *Cetoniini*, LONGSTAFF (91-93) London Trans. ent. Soc. 1906.

Cetonia (*Potosia*) *affinis* et ses variétés, *albonotata* var. n., LE COMTE Paris Bull. soc. ent. **1906** (247-249).—*C. stictica*, NOEL Naturaliste Paris **28** (139).

Clerota parvula Sumatra, MOSER (276) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Dasyrctus nigrofasciculatus, gilleti, Sarawak, MOSER (12) T.c., **spp. n.**—*D. tigrinus* Sumatra, MOSER (402) T.c., **sp. n.**

Digenethle subcostata New Guinea, MOSER, (274) T.c., **sp. n.**

Diploa tridens Angola, ARROW (136) Ann. Mag. Nat. Hist. Ser. 7 **18**, **sp. n.**

Glycyphana magnifica (400), *rubripes* (401), Solomon islands, MOSER Bruxelles Ann. Soc. ent. Belgique **50**, **spp. n.**

Hybovalgus yunnanus Yunnan, MOSER (403) T.c., **sp. n.**

Isehiosopha helleri New Guinea, MOSER (273) T.c., **sp. n.**—*I. cuprea* New Guinea (395), *bennigseni* New Pommerania (396), MOSER T.c., **spp. n.**

Leucocelis viridiventrif E. Africa, MOSER (401) T.c., **sp. n.**

Lomaptera abdominalis New Guinea, MOSER (273) T.c., **sp. n.**—*L. wahnesi* New Guinea **sp. n.** (397), *abdominalis* ♀ (398), MOSER T.c.—*L. hackeri* (561), *macrosticta* (562), Queensland, LEA Sydney N.S.W. Proc. Linn. Soc. **31**, **spp. n.**

Myoderma pusilla Angola, ARROW (135) Ann. Mag. Nat. Hist. Ser. 7 **18**, **sp. n.**

Osmoderma revision; BEDEL Abeille **30** (253-258).

Paenoda roseiventris E. Africa, MOSER (279) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**

Protaetia gregori Luzon, MOSER (278) T.c., **sp. n.**

Pseudochaleotha inermis, *sumatrana*, Sumatra, MOSER (275) T.c., **spp. n.**

Rhomborrhina ultramarinea Nepal (222), *laotica* Laos (223), **spp. n.**, NONFRIED Stettiner ent. Ztg. **67**.

Sisyraphora cicatricosa Burm., habitat and characters, ARROW (135) Ann. Mag. Nat. Hist. ser. 7 **18**.

Taeniodera madurensis India, MOSER (277) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**—*T. adspersa* Borneo (398), *vitticollis* Sumatra (399), MOSER T.c., **spp. n.**

Trichius dombrowskii **sp. n.** Birma, NONFRIED (224) Stettiner ent. Ztg. **67**.—*T. gallicus* = (*rosaceus* Kr.), *T. sexualis* **sp. n.** = (*gallicus* Reitt. nec Heer.), BEDEL (92) Paris Bull. Soc. ent. 1906.

(N-9720 j)

Trichotarsus dohrni ♀, MOSER (595) Bruxelles Ann. Soc. ent. Belgique **50**.

Valgus hemipterus, FRINGS Ent. Zs. Guben **20** (22).

(Le Comte, G. Tableaux de détermination des Cétonides de France. Nîmes, Bul. soc. étud. sci., nat., **32**, 1905, (76-85).)

(*Callinomes rufiventris*, FAIRMAIRE, Mission Pavie, **3**, **sp. n.**)

(*Cetonia (Potosia) mayeti*, LE COMTE, Paris, Bul. soc. ent., **1905**, **sp. n.**)

(*Mecynorhina oberthuri*, Ukami, FAIRMAIRE, Paris, Bul. soc. ent., **1903**, (261-263, av. fig.), **sp. n.**)

(*Chloresthia* gen. n., *clypeata*, FAIRMAIRE, Paris, Bul. soc. ent., **1905**, **sp. n.**)

BUPRESTIDAE.

Buprestidae du Musée de Santiago (Chile), habits, localities, dates, GERMAIN et KERREMANS Bruxelles Ann. Soc. ent. Belgique 1906 (377-394).

Larval means of locomotion, LEISEWITZ.

Aemaeodera sinuosa Mexico (45), *lesnei* Mexico? (72), *fontainieri* S. America (97), *vipera* (110), *bourrieri* (120), Mexico, *gossети* Paraguay (177), *brunneipennis* Egypt (212), KERREMANS Mon. Buprest. **2**, **spp. n.**—*A. virgulata* var. n. *moroderi*, REITTER (375) Bol. Soc. esp. Hist. nat. **6**.

Agrilus chrysoderes var. *rubicola* Ab., MARCHAL Paris Bull. soc. ent. **1906** (170-171).—*A. albomarginatus* Italia, FLORI (260) Riv. Col. ital. **4**, **sp. n.**—*A. feae* (408), *gestroi*, *bolamus*, (409), *subtenuis* (410), Africa occ., KERREMANS Genova Ann. Mus. **42**, **spp. n.**—*A. germaini* Chile, GERMAIN and KERREMANS Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**—*A. lucanus* **sp. n.** Lower California, FALL (167) Ent. News **17**.—*A. monticola* **sp. n.** New Guinea, KERREMANS D. ent. Zs. **1906** (416).

Buprestis to be maintained for *octoguttata* L. and allies, KERREMANS (174-177) Bruxelles Ann. Soc. ent. Belgique **50**.—*B. sanguinea* Fabr. is a *Stigmoderma*, ESCALERA (199-203) Madrid Bol. Soc. espan. **6**.

Chaleophora detrita, BOTTO Riv. Col. ital. **4** (73-74).

Chrysobothris bennigseni sp. n. Admiralitäts Insel., KERREMANS D. ent. Zs. **1906** (414).

Chrysodema jansonii var. n. *violacea*, KERREMANS (412) T.c.

Coracbus feae Fernando Po, KERREMANS (408) Genova Ann. Mus. **42**, sp. n.

Cyphogastra bennigseni sp. n. Solomons Ins., KERREMANS D. ent. Zs. **1906** (413).

Dactylozodes cylindrica (389), *euyana* (Phil.) (390), Chile, GERMAIN and KERREMANS Bruxelles Ann. Soc. ent. Belgique **50**, spp. n.

Dicerea miranda Reitt. neu für Russland, BAROVSKIJ St. Petersburg Hor. Soc. Ent. Ross. **37** (cxx, cxxi).

Ectinogonia chalybocentrus Chile, GERMAIN and KERREMANS (380) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Exagistus fossicollis sp. n. Shortlands Ins., KERREMANS D. ent. Zs. **1906** (413).

Julodis; the palaearctic species and their varieties, THÉRY Paris Bull. soc. ent. **1906** (124-127).—*J. bennigseni* (168), *bicolor* (169), *ritticollis* (170), S.W. Africa, OBST Bruxelles Ann. Soc. ent. Belgique **50**, spp. n.

Mastogenius impressipennis sp. n. Lower California, FALL (167) Ent. News **17**.—*M. laerifrons* Chile, GERMAIN and KERREMANS (394) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Neopolycesta gen. n. for part of *Polycesta* (458), *inornata* sp. n. Africa (465), KERREMANS Mon. Buprest **1**.

Philandia gen. n. *Agrilines* (391), *araucana* sp. n. Chile (392), GERMAIN and KERREMANS Bruxelles Ann. Soc. ent. Belgique **50**.

Pithiscus trifasciatus (385), *chalybaeofasciatus*, *angulatus*, (386), Chile, GERMAIN and KERREMANS T.c., spp. n.

Polybothris latissima, *theryi*, Madagascar, MEYER-DARCIIS (36) Paris Bull. Soc. entom. **1906**, spp. n.

Polycesta damarana S. Africa (475), KERREMANS Mon. Bupr. **1**, sp. n.—*P. damarana* var. n. *maculata*, OBST (172)

Bruxelles Ann. Soc. ent. Belgique **50**.—*P. arizonica* Palmerlee sp. n. (22), table of N. American (23), SCHAEFFER Canad. Entomol. **38**.

Pseudocastalia dybowskii Congo (450), *peringueyi* Transvaal (452), KERREMANS Mon. Buprest. **1**, spp. n.

Stigmodera helmsi N. S. Wales, CARTER (259) pl. xx f. 10, Sydney N.S.W. Proc. Linn. Soc. **31**, sp. n.

Trachykele opulenta (162), *nimbosa* (163), California, FALL Ent. News **17**, spp. n.

(Pic, M. Sur les Buprestides principalement paléarctiques du genera de Wytsman, Paris, Bul. soc. zool., **29**, 1904, (134-138).)

(*Agrilus cygneus*, Algérie, ABEILLE DE PERRIN, Paris, Bul. Soc. ent., sp. n., **1903**, (334-335).—*A. dirivaticatus*, *bedeli*, ABEILLE DE PERRIN, Paris, Bul. soc. ent., **1905**, spp. n.)

(*Astraeus caledonicus*, FAUVEL, Rev. ent. Caen, **23**, 1904, sp. n.)

(*Conognatha mayeti*, sp. n., THÉRY, Paris, Bul. soc. ent., **1904**, sp. n.)

(*Coroebus helichrysi*, ABEILLE DE PERRIN, Paris, Bul. soc. ent., **1904**, sp. n.—*C. orientalis*, ABEILLE DE PERRIN, Op. cit. **1905**, sp. n.)

(*Cardiaspis pisciformis*, THÉRY, Paris, Bul. Soc. ent., **1904**, (73-76, av. fig.), sp. n.)

(*Julodis mathiesseni*, Zentral-Persien, REITTER, Entomol. Ztg., Wien, **24**, 1905, (204), sp. n.)

(*Dystaxia elegans*, California, FALL, Ent. News, **16**, 1905, (71-74), sp. n.)

(*Strobilodera gastoni*, THÉRY, Paris, Bul. soc. ent., **1904**, sp. n.)

EUCNEMIDAE.

(*Fornax caledonicus*, *ferrugineus*, *brevicornis*, *soricinus*, FAUVEL, Rev. ent. Caen, **23**, 1904, spp. n.)

THROSCIDAE.

Throscus mesopotamicus Mesopotamie, *difficilis* Egypte, PIC (65) Echange **22**, spp. n.

ELATERIDAE.

The genera of *Elateridae* and lists of the species, SCHWARZ *Genera insectorum* fasc. 46, a, b, c, 6 plates.

Acrioniopus marginicollis sp. n. Australien, SCHWARZ D. ent. Zs. 1906 (369).

Adlocera strangulata Madagascar, FLEUTIAUX (199) Paris Bul. soc. ent. 1906, sp. n.—*A. brevicornis* (211), *denticornis*, Tonkin, *constellata* Java, (212), FLEUTIAUX T.c., sp. n.

Aeoloides subg. n. for *Heteroderes valili*, etc., SCHWARZ (109) Gen. ins. Elater.

Aeolus abbreviatus (128), *apicatus* Brazil (123), *basilaris* Argentina (131), *crucifer* Bolivia (129), *decoratus* Brazil (127), *discoidalis* Brazil (128), *indistinctus* Brazil (122), *interruptus* Brazil (120), *krugi* Brazil (125), *latifasciatus* (sic) Brazil (124), *lepidulus* Brazil (121), *longicollis* Brazil (134), *medianus* Brazil (120), *nigriceps* Bolivia (130), *pustulatus* Brazil (126), *scxrustulatus* Brazil (124), *sordidus* Argentina (133), *terminatus* Peru (132), *umbratus* Brazil (133), sp. n., SCHWARZ D. ent. Zs. Berlin 1906.—*A. (Phedomenus) basilaris* Brazil, SCHWARZ (112) D. ent. Zs. Berlin 1906, sp. n.

Agriotes; larval food-habits. LAMPA Uppsala ent. Tidskr. 27 (68).—*A. infuscatus* Desbr. var. n. *sinuaptoides* Italien, REITTER Entomol. Ztg. Wien 25 (240).—*A. edmondi* Taurus, PIC (1) Echange 22, sp. n.

Agriotides gen. n. for part of *Agonischius*, SCHWARZ (273) Gen. ins. Elater.

Agrypnus notodonta, caccia, BOLASCO Natural. sicil. 18 (258-260).

Alampoides gen. n. for part of *Pyrophorus*, SCHWARZ (216) Gen. ins. Elater.

Alaus curtipennis nom. n. for *brevipennis* Schw., SCHWARZ (326) D. ent. Zs. Berlin 1906.

Anchastus brunneofasciatus Brazil, sp. n., SCHWARZ (137) T.c.

Anilicopsis gen. n. for *Dicteniophorus dubius*, SCHWARZ (285) Gen. ins. Elater.

Anoplischius angularis Cauca Valley (104), *brevipes* Argentina (101), *bruchii* Brazil (103), *flavescens* Mendoza (102),

substriatus Brazil (100), sp. n., SCHWARZ D. ent. Zs. Berlin 1906.

Aplopus angusticollis Mendoza sp. n., SCHWARZ (143) T.c.

Asaphoides gen. n., *nigripennis* N. S. Wales, *ater* Australien, sp. n., SCHWARZ T.c. (366-367).

Athous puncticollis var. n. *testaceicolor*, PIC (33) Echange (22).—*A. austriacus* Desbr. var. n. *flecki* Rumänien, REITTER Entomol. Ztg. Wien 25 (240).—*A. undulatus*, coloration and varietal nomenclature, PIC (118) Paris Bul. soc. ent. 1906; varietal note, PIC (14) Echange 22; Coloration du sexe mâle, DU BUYSSON Paris Bul. soc. ent. 1906 (54-55).

Beliophorus natalensis Natal, SCHWARZ (247) pl. vi f. 3 Gen. ins. Elater., sp. n.

Betarmonides gen. n. for *Betarmon* of New Zealand, SCHWARZ (147) T.c.

Campyloides, gen. n. for *Pleonomus fleutiauxi* Schw., SCHWARZ (299) T.c.

Campylus flabellatus, *pectinatus*, sp. n., Kaukasus, REITTER Entomol. Ztg. Wien 25 (274).

Cardiophorus latescapulatus Perse, DU BUYSSON (19) Bull. Mus. Paris 12, sp. n.

Cardiorhinus discicollis St. Catharina, sp. n., SCHWARZ (149) D. ent. Zs. Berlin 1906.

Chalecolepidius parallelus San Salvador, *substriatus*, (97), *viriditarsus* (98), Arizona, SCHWARZ T.c., sp. n.

Chrosis illita Cand. = (*Metablax plasoni* Schw.) SCHWARZ (368) T.c.

Corymbites alpestris Men., Beschreibung, KOENIG Entomol. Ztg. Wien 25 (23).

Cosmesus meliofasciatus, (152) *posticinus* (151), *rugifrons* (152), sp. n., Brazil, SCHWARZ D. ent. Zs. Berlin 1906.

Crepidius cuncipennis, hab. not given, sp. n., SCHWARZ T.c.

Crepidomennus metallicus sp. n. Victoria, SCHWARZ T.c. (364).

*Cylindroderus plagiatu*s, (157), *rulneratus* (158), sp. n., Bolivia, SCHWARZ T.c.

Dicronychus ferrugineus Südwest-Afrika, *alternatus* Delagoa-Bay, *prosternalis* Kamerun, sp. n., SCHWARZ T.c. (369-370).

Diplostethus, **gen. n.**, SCHWARZ (258)
Gen. ins. Elater.

Drasterius curtipennis **nom. n.** for
brevipennis Schw., SCHWARZ (326) D.
ent. Zs. Berlin 1906.

Dulius **gen. n.** *Pomachilides* (199),
aberrans **sp. n.** Madagascar (200),
FLEUTIAUX Paris Bull. Soc. ent. 1906.

Elater bodemeyeri **sp. n.** Anatolien,
REITTER D. ent. Zs. 1906 (449).

Ethesopus grandiusculus (147), *prae-*
clarus (148), *terminatus* (147), **spp. n.**,
SCHWARZ D. ent. Zs. Berlin 1906.

Geranus lincicollis = (*Sphenelater*
nigricornis Schw.) SCHWARZ (326) T.c.

Heterocrepidus minor (98), *modestus*
(99), **spp. n.**, Brazil, SCHWARZ T.c.

Horistonotus luteus Mendoza (145),
piceus Buenos Aires (146), *tumidicollis*
Mendoza (145), **spp. n.**, SCHWARZ T.c.

Hymnoidus fleutiauxi **nom. n.** pro
monadicoides Flent. (153), *pictipennis*
nom. n. pro *variegatus* Schw. (156),
SCHWARZ Gen. ins. Elater.

Hypocoelus mathiesseni Kaukasus
(239), *H. (Paraphloeus) leonhardi*
Corsica (241), REITTER Entomol. Ztg.
Wien 25 (239).

Ischiodontus melanoxanthoides Fer-
nando Po, FLEUTIAUX (213) Paris Bull.
Soc. ent. 1906, **sp. n.**—*I. amitinus*
Brazil (110), *bicolor* Surinam (107),
bivittatus Paraguay (107), *crassiusculus*
Argentina (106), *curticollis* Brazil
(109), *ferrugatus* Peru (110), *nigri-*
ventris Bolivia (105), *parallelus* Ala-
bama (104), *rubiginosus* Argentina (107),
spp. n., SCHWARZ D. ent. Zs. Berlin
1906.

Medonia deromecoides Chile **sp. n.**,
SCHWARZ (136) T.c.

Megapenthes flavipes Mendoza **sp. n.**,
SCHWARZ (135) T.c.

Monadicus bruchi Buenos Aires **sp. n.**,
SCHWARZ (142) T.c.

Monocrepidius discoidalis **nom. n.** for
vitticollis Schw., *planatus* **nom. n.** for
depressus Schw., SCHWARZ (326) D. ent.
Zs. Berlin 1906.—*M. angustatus*
Brazil (115), *cincticollis* Argentina
(118), *fimbriatus* Mendoza (119),
goyaziensis Brazil (116), *lacerosus*
Peru (113), *lateralis* Brazil (115),
nigrosuturalis Argentina (117), *rufi-*

cornis Mendoza (114), **spp. n.**, SCHWARZ
T.c.—*M. lenticulatus*, *latus*, Queensland,
antennatus Victoria, *antennarius*,
collaris, *condensus*, *plasoni*, Australien,
fuscipennis, *ater*, Victoria, SCHWARZ T.c.
(356–362), **spp. n.**

Oligostethus **gen. n.** for *Idiotropia*
capensis Schw., SCHWARZ (315) Gen.
ins. Elater.

Olophoeus protensus Gerst. = (*Psephus*
rugulipennis Cand.), SCHWARZ (326) D.
ent. Zs. Berlin 1906.

Pachylater obscurus Madagascar,
LESNE (174) Paris Bull. Soc. ent. 1906,
sp. n.—*P. macrocerus* **sp. n.** Id. T.c.
(277).

Panspaeus biguttatus New Zealand,
SCHWARZ (148) Gen. ins. Elater., **sp. n.**

Parablax **gen. n.** for part of *Meta-*
blax, SCHWARZ D. ent. Zs. 1906 (368).

Paraepidomenus **gen. n.**, *fascicu-*
latus **sp. n.** Australien, SCHWARZ T.c.
(364–365).

Parallostethus **gen. n.**, SCHWARZ (258)
Gen. ins. Elater.

Parapomachilius cosmesoides Men-
doza (140), *lateralis* Brazil (141),
SCHWARZ D. ent. Zs. Berlin 1906.
spp. n.

Plastocerus dimidiatus Peru **sp. n.**,
SCHWARZ (158) T.c.

Pleonomoides **gen. n.** for *Nomoplus*
flavus Schw., SCHWARZ (302) Gen. ins.
Elater.

Pomachilius elegantulus (139), *longi-*
cornis (137), *puleher* (138), **spp. n.**,
Brazil, SCHWARZ D. ent. Zs. Berlin
1906.

Pristilophus bifoveolatus to *Chrosis*,
SCHWARZ (326) T.c.

Psephus sordidulus = (*feralis* Cand.),
SCHWARZ (326) T.c.—*P. quadraticollis*
sp. n. Australien, SCHWARZ T.c. (353).

Pyrophorus lineatocollis Brazil (153),
longipennis Cuba (154), *schneideri*
Brazil (155), *semiotoides* Argentina
(155), **spp. n.**, SCHWARZ T.c.

Rhinopsephus **gen. n.** for *Psephus*
minor etc., SCHWARZ (82) Gen. ins.
Elater.

Silesis crassus Perse, DU BUYSSON
(20) Bull. Mus. Paris 12, **sp. n.**

Simodaetylus trivittatus, Shortlands Ins., *suturalis* Queensland, *brunneus* Australien, SCHWARZ D. ent. Zs. **1906** (353-355), **spp. n.**

Tarsalgus schneideri **sp. n.** Delagoa Bay, SCHWARZ T.c. (370).

Tomoecephalus bilineatus Chiriqui **sp. n.**, SCHWARZ (150) T.c.

Triplonychoidus **gen. n.** for *Triplonychus trivittatus* Champ. etc., SCHWARZ (181) Gen. ins. Elater.

Triplonychus boliviensis Bolivia, *bruchii* Argentina, **spp. n.**, SCHWARZ (144) D. ent. Zs. Berlin **1906**.

The following Elateridae have already been recorded in the Zoological Record.

(*Agriotes dilataticoxis*, Maroc, DU BUYSSON, Rev. ent. Caen, **23**, 1904, sp. n.)

(*Athous villardi*, CARRET, Paris, Bul. Soc. ent., **1904**, (170-173), sp. n.—*A. eximius*, *insulsus*, *nadari*, DU BUYSSON, Paris, Bul. soc. ent., **1904**, (58-60), spp. n.—*A. bagdadensis*, Bagdad, *uhaggoni*, Espagne, DU BUYSSON, Rev. ent. Caen, **23**, 1904, spp. n.—*A. olceseii*, DU BUYSSON, Paris, Bul. soc. ent., **1905**, sp. n.)

(*Cardiophorus aeneipennis*, Madagascar, (12), FLEUTIAUX, Paris, Bul. soc. ent., **1904**, sp. n.—*C. eliasi* sp. n., Syrie, PIC, Paris, Bul. soc. ent., **1904**, (298-299).—*C. imperus*, *sbeitlensis*, DU BUYSSON, Paris, Bul. soc. ent., **1905**, spp. n.)

(*Orymbitodes* subgen. n., *longicollis* sp. n., DU BUYSSON, Paris, Bul. soc. ent., **1904**.)

(*Denticollis* (*Campylus*) *jakobsoni*, Lenathal, REITTER, Entomol. Ztg., Wien, **22**, 1903, (280-281), sp. n.)

(*Dorigonus ceylanicus*, FLEUTIAUX, Paris, Ann. soc. ent., **74**, sp. n.)

(*Elater nigrata*, *frontalis*, *marginellus*, FAUVEL, Rev. ent. Caen, **23**, 1904.)

(*Elathous oberndorfferi*, Buffalo, N.Y., *smyrnensis*, Smyrna, (207), *syriacus*, Beirut, (208), SCHWARZ, Entomol. Ztg., Wien, **22**, 1903, spp. n.)

(*Hemirraphes bivittatus*, FLEUTIAUX, Paris, Ann. soc. ent., **74**, sp. n.)

(*Heteroderes parallelus*, FLEUTIAUX, Paris, Bul. soc. ent., **1903**, sp. n.)

(*Homotechnes brunneus*, FLEUTIAUX, Paris, Ann. soc. ent., **74**, sp. n.)

(*Hypnoïdus incommodus*, *monadicoides*, FLEUTIAUX, T.c., spp. n.)

(*Lacon tellini*, FLEUTIAUX, Paris, Bul. soc. ent., **1903**, sp. n.)

(*Ludius cupreus* var. n., *hilfi*, Herzogwina, REITTER, Entomol. Ztg., Wien, **21**, 1902, (1-9).—*L. maindroni*, FLEUTIAUX, Paris, Ann. soc. ent., **74**, sp. n.)

(*Melanoxanthus picturatus*, FAUVEL, Rev. ent., Caen, **23**, 1904, sp. n.—*M. pomachilioides*, FLEUTIAUX, Paris, Ann. soc. ent., **74**, sp. n.)

(*Monocrepidius brachypterus*, FAUVEL, Rev. ent., Caen, **23**, 1904, sp. n.)

(*Ochosternus pacificus*, *eribriceps*, FAUVEL, T.c., spp. n.)

(*Silesis vanlogeri*, DU BUYSSON, Paris, Bul. soc. ent., **1905**, sp. n.)

(*Tropidiplus* gen. n., *T. tellinsi*, FLEUTIAUX, Paris, Bul. soc. ent., **1903**, sp. n.)

CEBRIONIDAE.

Cebrio; LEONI Riv. Col. ital. **4** (268-269).—*C. italiani*, *C. fiorii* **sp. n.** Italia (212), LEONI Riv. Col. ital. **4** (181-220).

RHIPIDOCERIDAE.

Sandalus semitestaceus Japan, PIC (1) Echange **22**, **sp. n.**

(*Agathorhipis bifissata*, FAUVEL, Rev. ent., Caen, **23**, 1904, sp. n.)

(*Cladotoma bruchii*, Argentine, *russula*, *maculicollis*, Brésil, FAIRMAIRE, Paris, Bul. soc. ent., **1904**, spp. n.)

(*Pseudolichas nivipictus*, FAIRMAIRE, Mission Pavie, **3**, sp. n.)

DASCILLIDAE.

Allopogonia **nom. n.** for *Allopogon* Horn, COCKERELL (241) Ent. News **17**.

Araeopidius **nom. n.** for *Araeopus* Lec., COCKERELL (241) Ent. News **17**.

Eucinetus subrutilus Tunisie, PIC (33) Echange **22**, **sp. n.**

Lachnodactyla texana, *arizonica*, N. America, SCHAEFFER (114) Psyche **13**, **spp. n.**

Microcara fuegensis (37) pl. i f. 10, BOURGEOIS Résult. Belgique, Zoologie.

Prionocyphon serricornis, early stages, DONISTHORPE (lxxxviii) London Proc. ent. soc. 1906.

Scirtes plagiatus sp. n. Arizona, SCHAEFFER (115) Psyche 13.

(*Eubrianax insignis* FAIRMAIRE, Mission Pavie, 3, sp. n.)

(*Hydrocyphon championi*, Sierra de Bejar in Spanien, REITTER, Entomol. Ztg. Wien, 22, 1903, (177), sp. n.)

MALACODERMIDAE.

Aquatic larvae of *Lampyridae*, ANNANDALE Calcutta J. As. Soc. 2 (106).

Anolis ratteri sp. n. Nordtirol, REITTER Entomol. Ztg. Wien 25 (35).

Anthocomus coccineus Schall. = (*rufus* Herbst), BEDEL (92) Paris Bul. Soc. ent. 1906.

Attalus alaiensis Monts Alai, PIC (10) Echange 22, sp. n.—*A. semilimbatus* Yunnan, *petiti* Algérie, PIC (17) T.c., spp. n.—*A. uniformis* = (*heydeni* Ab.), PIC (47) Paris Bull. Soc. entom. 1906.

Balanophorus javanus Java, PIC (57) Echange 22, sp. n.

Belotus latithorax Buenos Ayres, PIC (51) Echange 22, sp. n.

Caeniella nom. n. = *Caenia* Newman, COCKERELL (242) Ent. News 17.

Calochromus graciosus (192), *nigromarginatus* (193), Borneo, BOURGEOIS Paris Ann. Soc. ent. 75, spp. n.

Cantharis indica nom. n. pro *cruralis* Gorh., *loweri* nom. n. pro *decipiens* Low., *lewisi* nom. n. pro *diehrous* Lew., *imperator* nom. n. pro *imperialis* Gorh., *gorhami* nom. n. pro *insularis* Gorh., *antillarum* nom. n. pro *lincatus* Gorh., *americana* nom. n. pro *notata* Man., *bohmanni* nom. n. pro *emarginatus* Boh., PIC (81) Echange 22.—*C. bilunulata* varr. n. *dilutipes* and *distincticollis*, *curta* var. n. *batnensis*; *bosnica* Bosnia, *funestula* Thian Schan, spp. n.; *pulicaria* var. n. *curticollis*, *dimidiatipes* subsp. n. *reitteri*, *sublivida* var. n. *ardinensis*, (82), *arisi* Turcmenie (82), *ciliatocollis* Buchara, *mongolica* Mongolie bor., *baikalica* Sibérie, *rubripennis* Darjeeling, *magnifica* Chine mer., *limbatipennis*, *grouellei* *nigricolor*, Chine,

donckieri, *subnitida*, *guerryi*, Chine mer., (83), *opacipennis* Chine, *staudingeri* Célèbes, *veneris* Borneo, *C. (Themus) viridissima* Chine mer., (84), spp. n., PIC T.c.—*C. kirschi* nom. n. pro *alticola* Kirsch, *pyrenaea* nom. n. pro *lineata* Kow., *generosa* nom. n. pro *nobilis* Gorh., *rufithorax* nom. n. pro *ruficollis* Lec., *plurivittata* nom. n. pro *bivittata* Mars., *solieri* nom. n. pro *longicornis* Solier., PIC (89) T.c.—*C. lucida* Buchara, *madegassa* Madagascar, *africana*, *deiliformis*, Afrique or., (89), *unilineata*, *quadrifaculata*, *italiayana*, *gounellei*, *brevis*, Brésil, *nigrosutularis* hab., (90), PIC T.c., spp. n.—*C. akbesiana* Syrie, PIC T.c. (96), ? sp. n.—*C. sicula* sp. n. Sicile, PIC Natural. sicil. 18 (197–198). — *C. (Telephorus) viridinitida* Yunnan, PIC (218) Paris Bull. Soc. ent. 1906, sp. n.—*C. pilsbryi* sp. n. Texas, SKINNER (217) Ent. News 17.—*C. (Telephorus) nitidicollis* Brazil, PIC (283) Naturaliste 1906, sp. n.

Carphurus sumatrensis, *rouyesi*, Sumatra, *ruficeps* Amboine, PIC (57) Echange 22, spp. n.

Celiasis mirabilis Lacord and *Chalcas trabecatus*, note synonymique, BOURGEOIS Paris Bul. soc. ent. 1906 (95–97).

Cerapheles terminatus var. n. *obscuricornis*, PIC (41) Echange 22.

Charopus diversipennis Adana, PIC (41) T.c., sp. n.

Cladophorus satanas Sarawak, BOURGEOIS (186) Paris Ann. Soc. ent. 75, sp. n.

Dasytes laufferi sp. n. Spain (98), SCHILSKY in Küster and Kraatz Käfer Europas 42; *D. incrassatus* Oran sp. n., Id. 43 (10).—*D. palustris* Italia, FIORI (262) Riv. Col. ital. 4, sp. n.—*D. vicinus* (74), *shastensis* (75), California, BLAISDELL Ent. News 17, spp. n.

Diaphanes feai (235), *picinus* (236), Fernando Po, OLIVIER Genova Ann. Mus. 42, spp. n.

Dictyophorus rubens Gyll., GOLLER Insektenbörse 23 (104).

Dilophotes sheldfordi Sarawak, BOURGEOIS (194) Paris Ann. Soc. ent. 75, sp. n.

Dinometopus albonotalus, *donckieri*, Port Elizabeth, PIC (2) Echange 22, spp. n.

Discodon moissinaci Sumatra. PIC (84) Echange **22**, **sp. n.**—*D. albonotatum* Brésil, D. ? *surinamensis* Guyane, PIC (90) T.c., **sp. n.**—*D. rouyeri* Sumatra, *brevilineatum* Argentina, *baeri* Peru, *annulipes* Brazil, PIC (283) Naturaliste 1906, **sp. n.**

Donaldia minuta Ile Bourbon, PIC (11) Echange **22**, **sp. n.**

Drilus flavescens larva, habits, BAYFORD (267, 268) Ent. Mag. London **42**.

Eulobonyx arisi Turkestan (11), *haemorrhoidalis* Kashmir (12), SCHILSKY Küster Käf. Eur. **43**, **spp. n.**

Ilaplocnemus serrulatus Spain (100), *similis* Anatolia (99), **spp. n.**, SCHILSKY T.c.—*I. hebraicus* Palestine **sp. n.**, Id. T.c. **43** (13).

Icthyurus acanthopus (219), *pallidipennis* (222), *humilis* (225), *arrowii* (227), *forcipiger* (229), *confusus* (231), Africa, GESTRO Genova Ann. Mus. **42**, **spp. n.**—*I. pusillus* Ceylan (273), *pulchellus* Birmania (274), *pavulus* Nilghiri (275), *minutulus* Liou-Kiou (276), *concinus* Malacca (278), *pieticollis* Ceylan (279), *biplagiatus* Tenasserim (281), *insignis* Mysore (285), *validus* Nilghiri (286), *crassepunctatus* Assam (288), *maculipes* Birmania (291), *lineipes* Manipur (292), *platyrus* (295), *dilutus* (297), Birmania, *distans* Malacca (299), *tricolor* Giava (301), GESTRO T.c., **spp. n.**—*I. pieticauda*, *opacus*, **spp. n.**, Tonkin, GESTRO Leiden Notes Mus. Jentink **26** (235–238).

Idgia cincta, *bourgeoisi*, (42), *maculicollis*, *pallidicolor*, *rouyeri*, (43), Java et Sumatra, **spp. n.**, *metallesceus* Friv. varr. n. *sumatrensis* et *semilimbata* (43), PIC Echange **22**.—*I. nigricollis* Sierra Leone (43), *cyanea* Yoruba (44), PIC T.c., **spp. n.**—*I. viridipennis* **sp. n.**, (? *viridescens* var.) "Indes," PIC (55) T.c.—*I. haemorrhoidalis* Yunnan, PIC (217) Paris Bull. Soc. ent. 1906, **sp. n.**

Laïus latipennis Afrique or., PIC (21) Bull. Mus. Paris **12**, **sp. n.**—*L. javanus* Java, PIC (61) Paris Bul. Soc. Zool. **31**, **sp. n.**

Lampyrus noctiluea ♀, Zucht, MEISSNER, Insektenbörse Leipzig **23** (181–182).

Lobetus peruvianus, *brevipennis*, *inapicalis*, Pérou, PIC (51) Echange **22**, **spp. n.**—*L. guadelupensis* Guadeloupe,

PIC (57) T.c., **sp. n.**—*L. grandis* Peru, PIC (175) Naturaliste 1906, **sp. n.**

Lucidota taciturna, *proseripta*, Colombie, OLIVIER Paris Bul. soc. ent. **1906** (108–109), **spp. n.**

Luciola nigrita Nairobi, OLIVIER (508) Bul. Mus. Paris 1906, **sp. n.**

Lycus (Lopholycus) bozasi (193), *L. incomplexus* (194), *curtirostris* (195), Afrique, BOURGEOIS Bull. Mus. Paris **12**, **spp. n.**

Lygistopterus sanguineus pupa, MjöBERG (15) pl. i f. 7 Uppsala Arkiv. Zool. **3** No. 6.

Malachius cardinalis Buchara, PIC (49) Echange **22**, **sp. n.**

Malthinus; de France, PIC Echange Moulins **22** 1906 (16, 22–24, 30–32).—*M. incrassicornis* var. n. *diversicollis*, PIC (17) Echange **22**.

Malthodes (Maltharus) ganglbaueri Parma (4–6), *latialis* Monti laziali (13–15); *baudii* Sicilia (21–23), FIORI Riv. Col. ital. **4**, **spp. n.**—*M. (Podistrella) serbotae* **sp. n.** Siebenbürgen, PETRI Entomol. Ztg. Wien **25** (224).—*M. subcarinatus* "Indes," PIC (17) Echange **22**, **sp. n.**

Maronius pulcher Pérou, *limbatus* Argentine, (9), *monstrosicornis*, *amazonicus*, Amazone, *brasiliensis* Caraca, PIC Echange **22**, **spp. n.**—*M. batesi* Ega, PIC (35) T.c., **sp. n.**—*M. obscurus*, *impressipennis*, *baeri*, *testaceiceps*, *gounellei*, *maculiceps*, *staudingeri*, *annulicornis*, Amerique mer., PIC (52) T.c., **spp. n.**

Melampyrus shelfordi Sarawak, BOURGEOIS (192) Paris Ann. Soc. ent. **75**, **sp. n.**

Phaenopterus graccus var. n. *rufithorax*, PIC (9) Echange **22**.

Plectonotum laterale, *gounellei*, *brasiliense*, Brésil, PIC (90) Echange **22**, **spp. n.**

Podabrus alpinus var. n. *apicalis*, (*Anolisus*) *abdominalis* **sp. n.** Indes, PIC (81) T.c.—*P. punctatipennis* Ecuador, PIC (282) Naturaliste 1906, **sp. n.**

Pseudopodabrus **gen. n.**, *impressiceps* **sp. n.** Tonkin, PIC (81) Echange **22**.

Rhagonycha beauprei nom. n. pro *latiuscula* Bourg. (81), *R. (Absidia) multistriata* Sikkim, *tonkinea* Tonkin

spp. n. (82), PIC T.c.—*R. (Absidia) latiuscule* Oran, BOURGEOIS Paris Bul. Soc. ent. **1906**, **sp. n.**—*R. transbaikalia* Transbaikai, PIC (89) T.c., **sp. n.**

Silis africana Dahomey, *benuensis* Benue, PIC T.c. (88), **spp. n.**—*S. obscuricolor* Brésil, *obscurissima*, *donckieri*, *sinensis*, Chine, *flabellicornis* Sumatra, (84), *discoidalis* Java (85), PIC T.c., **spp. n.**—*S. monstrosicornis* Borneo, *major* Pérou, *fruhstorferi* Sikkim, *argentina* Argentine, *maculata* Brésil, *ronyeri* Sumatra, *laticeps*, *griseus*, Brésil, (91), *guyanensis* Cayenne, *obscuripes*, *gounellei*, *fasciata*, *distincta*, *brerinetata*, *lata*, *scutellaris*, Brésil, (92), *peruriana* Pérou, *bilineata* Brésil, (93), PIC T.c., **spp. n.**—*S. carinaticeps* Tonkin, *latipennis* Brazil, PIC (282) Naturaliste 1906, **spp. n.**

Trichalus shelfordii Sarawak, BOURGEOIS (190), Paris Ann. Soc. ent. **75**, **sp. n.**

Trypherus placatipennis Pérou, *elongatus* Brésil, PIC (44) Echange **22** **spp. n.**

Tylocerus distinctipennis Sumatra, PIC (91) T.c., **sp. n.**

Xamerpus maindroni Inde, PIC (8) T.c., **sp. n.**

Xylobanus senescens Sarawak, BOURGEOIS (188) Paris Ann. Soc. ent. **75**, **sp. n.**

Zygia pallidirentis Afrique or., PIC (I) Echange **22**, **sp. n.**

The following Malacodermidae have been previously recorded in the Zoological Record:—

(*Calopteron variegatum* Kirsch, *flavofasciatum*, *torquatum* Er., *albofasciatum*, *melanoxanthum* Kirsch, *geayianum*, varr. n., BOURGEOIS Paris, Ann. Soc. ent., **74**.)

(*Colotes uncifer*, Algérie, ABEILLE DE PERRIN, Paris, Bul. Soc. ent., sp. n., **1903**.)

(*Cyrtopteron* gen. n. (*Calopteron* p. part), BOURGEOIS, Paris, Ann. Soc. ent., **74**.)

(*Drilus* ? *kandyanus*, BOURGEOIS, Paris, Ann. soc. ent., **72**, sp. n.)

(*Eugensis* BOURGEOIS, Paris, Ann. soc. ent., **72**.)

(*Idgia puncticollis* BOURGEOIS, T.c. **sp. n.**)

(*Idiopteron* gen. n. (*Calopteron* p. part), BOURGEOIS, Paris, Ann. soc. ent., **74**.)

(*Laius plagiatus*, *variolosus*, *miles*, BOURGEOIS, T.c. **spp. n.**)

(*Luciola horni*, *antennalis*, BOURGEOIS, T.c. **spp. n.**)

(*Lyceus (Lyceostomus) vaucheri*, BOURGEOIS, Paris, Bul. soc. ent., **1905**, sp. n.)

(*Macrolampis omissus*, *elapsus*, *roberti*, *frater*, *distinguendus*, *transversenotatus*, *agonus*, *meditabundus*, *cylindrus*, OLIVIER, Paris, Ann. soc. ent., (311), **spp. n.**)

(*Malachius arctelimbatus*, *japonicus*, **spp. n.**, PIC, Paris, Bul. soc. ent., **1904**.)

(*Malchinus brancesiki*, Dalmatien, REITTER, Entomol. Ztg., Wien, **22**, 1903, (232), **sp. n.**)

(*Malthodes (Malthodellus) decorus*, BOURGEOIS, Paris, Bul. Soc. ent., **1903**, (336-337), sp. n. — *M. (Malthinellus) messenius* Messina, (*Podistrina*) *ragusae* Sicilia, FIORI, Naturalista sicil., Palermo, **17**, 1904, (74-76), **spp. n.**—*M. silvicola*, France, BOURGEOIS, Paris, Bul. Soc. ent., **1903**, (247-248, a. fig.), sp. n.—*M. garoiji*, BOURGEOIS, Paris, Bul. soc. ent., **1905**, sp. n.)

(*Mesopteron* gen. n. (*Calopteron* p. part) *riveti* sp. n., BOURGEOIS, Paris, Ann. soc. ent., **74**.)

(*Metapteron* gen. n. (*Calopteron* p. part), BOURGEOIS, T.c.)

(*Rhagonycha (Absidia) raoulogeri*, Algérie, BOURGEOIS, Paris Bul. soc. ent., **1905**, sp. n.)

(*Selasia maindroni*, BOURGEOIS, Paris Ann. soc. ent., **72**, sp. n.—*S. (Euptilia) horni*, Ceylan, BOURGEOIS, Op. cit., sp. n.)

(*Silis maindroni*, BOURGEOIS, Paris, Ann. soc. ent., **72**, sp. n.—*S. ceylonica*, Ceylan, BOURGEOIS, Op. cit. **74**, sp. n.)

(*Sphinginopalpus martini*, PIC, Paris, Bul. soc. ent., **1904**, (12-13), sp. n.)

(*Tylocerus apicalis*, BOURGEOIS, Paris, Ann. soc. ent., **72**, sp. n.)

(*Zelotypus horni*, Ceylon, BOURGEOIS, Op. cit. **74**, sp. n.)

(*Zygia alluandi*, PIC, Paris, Bul. soc. ent., **1905**, sp. n.)

CLERIDAE.

Cleriden des Deutschen Entomologischen National-Museums, SCHENKLING D. ent. Zs. Berlin (241-320) pl. ii.

Anthicoclerus **gen. n.**, *anthicoides* Westw., SCHENKLING (264) T.c.

Aroterus **nom. n.** for *Aroteres* Fairm., SCHENKLING (252) T.c.

Axina nigrifrons Puerto Cabello (253) pl. ii f. 4, *A.* (*Ctenaxina* **subgen. n.**) *brunnea* Peru (254), **spp. n.**, SCHENKLING T.c.

Cephaloclerus annulipes E. Africa **sp. n.**, SCHENKLING (300) T.c.

Clerus aestivus Brazil (274), *coccineus* Mexico (272) pl. ii f. 7, *militaris* Brazil (272), *pusio* Peru (276), *suturalis* Brazil (277), *tomentosus* S. America (275), **spp. n.**, SCHENKLING T.c.

Cleronomus amoenus **sp. n.** Colombia, SCHENKLING (263) pl. ii f. 5 T.c.

Colyphus melanopterus **sp. n.** Cincinnati, DURY Cincinnati Ohio J. Soc. **20** (251-256).

Ctenaxina **subg. n.** cf. *Axina*.

Cylidrus; table of species, SCHENKLING (243) D. ent. Zs. Berlin 1906.

Cymatodera delicatula Lower California (113), *decipiens*, *umbrina*, California, (114), FALL Canad. Entomol. **38**, **spp. n.**

Dasyrocclus suturalis Sumatra **sp. n.**, SCHENKLING (291) D. ent. Zs. Berlin 1906.

Diplophorus pulcher **sp. n.** Africa, SCHENKLING (247) T.c.

Epiphloeus vitticollis Amazons **sp. n.**, SCHENKLING (299) T.c.

Evenus fascicollis Madagascar **sp. n.**, SCHENKLING (299) pl. ii f. 11 T.c.

Graptoclerus, taxonomy and composition, SCHENKLING (270) T.c.

Hendecatus **gen. n.**, *subnotatus* Westw., etc., SCHENKLING (246) T.c.

Hydnocera plagifera California (115), *cyanitincta* New Mexico, *cribripennis* Texas, (116), *affiliata* California, *sobrina* Arizona, (117), FALL Canad. Entomol. **38**, **spp. n.**

Ichne (*Pseudichne*) *varicollis* Brazil **sp. n.**, SCHENKLING (310) D. ent. Zs. Berlin 1906.

Lemidea albolineata (302), *bicolor* (301), *circumcincta* (302), *pusilla* (303), **spp. n.**, Australia, SCHENKLING T.c.

Natalis leai and *Opilo floccosus* distinguished, BLACKBURN (322) Adelaide S. Aust. Trans. R. Soc. **30**.

Necrobia ruficollis, habits of larva, TASCHENBERG Zs. wiss. Insektenbiol. **2** (13-17).

Neoclerus tuberculatus Ceylon **sp. n.**, SCHENKLING (278) D. ent. Zs. Berlin 1906.

Neogyponyx **gen. n.**, *punctipennis* Germ., SCHENKLING (266) T.c.

Neotenerus **gen. n.** near *Pelonium*, *tuberculatus* **sp. n.** Paraguay, SCHENKLING (309) T.c.

Ommadius longulus Borneo (295), *muscosus* Sumatra (296), *omissus* Celebes (295) pl. ii f. 10, **spp. n.**, SCHENKLING T.c.

Opetiopalpus tuniscus Tunisie, PIC (26) Echange **22**, **sp. n.**

Opilo desertorum Sahara, LESNE (388) Bul. Mus. Paris 1905, **sp. n.**—*O. rugicollis*, *unistriata*, India, **spp. n.**, SCHENKLING (260) D. ent. Zs. Berlin 1906.

Orthrius andamanensis Andaman Islds. (268), *cruciger* Queensland (269), *haemorrhoidalis* Ceylon (268) pl. ii f. 8, *monticola* Borneo, *octopunctatus* Sumatra, (267), *tibialis* Assam (268), **spp. n.**, SCHENKLING T.c.

Pelonium australicum Sydney (223) pl. xviii f. 7, LEA Sydney N.S.W. Proc. Linn. Soc. **31**, **sp. n.**—*P. erythromantoides* Brazil (313), *lateripunctatum* Colombia (314), *quadriforeolatum* Brazil (313), *vittipenne* Argentina (316), **spp. n.**, SCHENKLING D. ent. Zs. Berlin 1906.

Phaeocyclotomus centurio Sumatra **sp. n.**, SCHENKLING (293) T.c.

Phloeocopus plumbeus Madagascar (259), *togonis* Africa (258), **spp. n.**, SCHENKLING T.c.

Phlogistus blackburni Australia, **sp. n.**, SCHENKLING (279) T.c.

Priocera equestris. gracilis, (257), *longula* (256), Brazil, *salamandra* Mexico (255), **spp. n.**, SCHENKLING T.c.

Pyticera flavicollis var. *n. suturalis*, SCHENKLING (311) T.c.

Stenocylidrus undatus Coq., SCHENKLING (250) T.c.

Stigmatium scitum Sumatra **sp. n.**, SCHENKLING (289) pl. ii f. 8 T.c.

Tenerus curticolis Nepal (305) pl. ii f. 12, *gorhami* Morty, *hirsutus* Sumatra, (306), *occidentalis* San Thomé (307), **spp. n.**, SCHENKLING T.c.

Thanoeroclerus elongatus Yunnan, **sp. n.**, SCHENKLING (278) T.c.

Tillus raulogeri Tunisie, PIC (25) Echange **22, sp. n.**

Trichodes korbianus Asia Minor, GÄNGLEBAUER (274) Wien Ann. Hofmus. **20, sp. n.?**

(*Clerus bimaculatus*, Arizona, SKINNER, Ent. News, **16**, 1905, (289-292), **sp. n.**)

(*Cymatodera tricolor*, Arizona, SKINNER, T.c. (289-292), **sp. n.**)

(*Omadius diversicollis* **sp. n.**, FAUVEL, Rev. ent. Caen, **23**, 1901, **sp. n.**)

LYMEXYLONIDAE.

Hylecoetus and *Lymexylon* larvae, LEISEWITZ.

(*Atractocerus horni*, Ceylon, BOURGEOIS, Paris, Ann. soc. ent., **74**, **sp. n.**)

PTINIDAE.

Anobium panicum, foods, BUSIGNY (46) Naturaliste 1906.

Caenocara oculata, habits, HOUGHTON Ent. News **17** (114-115).

Eudipnus auronitens **sp. n.** Italia, AMORE Natural. sicil. **18** (198-200).

Eupactus dufawi Guadeloupe, PIC (22) Echange **22, sp. n.**

Hedobia magnifica Reitt. var. *tauricola* var. **n.**, PIC (228) Paris Bull. Soc. ent. **1906**.

Hexaplocotes, **gen. n.** near *Diplocotes*, *sulcifrons* **sp. n.** W. Australia pl. xviii f. 8, LEA (224) Sydney N.S.W. Proc. Linn. Soc. **31**.

Niptus hololeucus, life history, MJÖBERG (11) Uppsala Arkiv. Zool. **3** No. 6; natural history, MJÖBERG (65-68) Uppsala Ent. Tidskr. **27**.—*N. crenatus* vide *Plinus fur*.

Ptinus donceeli Mendoza **sp. n.**, *natalensis* **nom. n.** pro *elegans* Pering. 1904, PIC (227) Paris Bull. Soc. ent. **1906**.—*P. dufawi* Guadeloupe, PIC (21)

Echange **22, sp. n.**—*P. fur*, raptor, *Niptus crenatus*, Schädigung von Mehl-vorräthen; verzögerte Entwicklung bei anormalen Verhältnissen, ŠEVYREV St. Peterburg Hor. Soc. Ent. Ross. **37** (cxvii-cxix).—*P. moroderi* Spanien (281), *bescidicus* Oesterreich (282), *dauricus* Irkutsk etc., *gylippus* Attica, (283), *sicaneticus* Kaukasus (284), **spp. n.**, REITTER Entomol. Ztg. Wien **25** (281).

Stagetus Woll. = (*Theca* Aubé), BEDEL (92) Paris Bull. Soc. ent. **1906**.

Trichodesma japonica Kioto, PIC (2) Echange **22, sp. n.**

Trigonogenius globulus Sol., introduced in Tasmania and W. Australia, LEA Sydney N.S.W. Proc. Linn. Soc. **31** (224).

Nyletinus sanguinocinctus var. **n. disconiger**, PIC (3) Echange **22**.

(*Dorcatoma lomnickii*, Litthauen, REITTER, Entomol. Ztg., Wien, **22**, 1903, (239), **sp. n.**—*D. lanatum*, FAUVEL, Rev. ent. Caen, **23**, 1904, **sp. n.**)

(*Leptotheca* **gen. n.** (nomen preoccup. *Myxosporidia*), *laticornis* **sp. n.**, FAUVEL, T.c.)

(*Petalium fauveli*, *alluaudi*, *longipenne*, FAUVEL, T.c., **spp. n.**)

(*Theca figurata*, *semitrufa*, FAUVEL, T.c., **spp. n.**)

BOSTRYCHIDAE.

Revision des Bostrychides. 5^e partie. *Sinoxylinae*. LESNE Paris Ann. soc. ent. **75** 1906 (445-561).

Bostrychopsis cristaticeps Socotra, LESNE (403) T.c., **sp. n.**

Bostrychus Müller; LESNE (249) Abeille **30**.

Calodectes **gen. n.** *Sinoxylinae* (453), *laniger* **sp. n.** Cape Town (454), LESNE Paris Ann. soc. ent. **75**.

Calodrypta **gen. n.** *Sinoxylinae*. *exarmata* **sp. n.** Durban, LESNE (455) T.c.

Calopertha **gen. n.** *Sinoxylinae* (456), *costatipennis* Abyssinie (458), *kalaharensis* Afrique Sud-Ouest (459), **spp. n.**, LESNE T.c.

Calophorus **gen. n.** voisin de *Micrapate* (404), *coriaceus* **sp. n.** Australie (405), LESNE T.c.

Dinoderopsis **gen. n.** voisin de *Prostephanus* (400), *eschariopora* **sp. n.** Socotra (401), LESNE T.c.

Dinoderus ocellaris Steph. = (*pilifrons* Lesne), LESNE (249) Abeille **30**.—*D. pilifrons* and *minutus*, destructive habit, STEBBING Ind. For. **32** (534) and (219-223) Bombay J. Nat. Hist. Soc. **17**.—*D. ochraceipennis* Tenasserim, LESNE (399) Paris Ann. soc. ent. **75**, **sp. n.**

Heterarthron jamaicensis Jamaïque (397), *caribeanus* Guadeloupe and Trinidad (399), LESNE T.c., **sp. n.**

Micrapate bicostula Rio Janeiro (406), *pupulus* Amazone (407), *paterala* Tchad, *neglecta* Sierra Leone (409), **spp. n.**, LESNE T.c.—*M. unguiculata* (273), *guatemalensis* (274), *foraminata* (275), *labialis* (278), *sericeicollis* (279), Amérique centrale, LESNE Abeille **30**, **spp. n.**—*M. wagneri* Argentine, LESNE (12) Bull. Mus. Paris **12**, **sp. n.**

Phonapate discreta Afrique occ., LESNE (415) Genova Ann. Mus. **42**, **sp. n.**

Psoa (Aerepis) sexguttata Malaisie ou Mexique?, LESNE (393) Paris Ann. soc. ent. **75**, **sp. n.**

Scobicia: habits, LESNE (251) Abeille **30**.

Sinocalon **gen. n.** *Sinoxylinae* (447), *reticulatum* (451), *pilosulum* (452), **spp. n.**, Argentine, LESNE Paris Ann. Soc. ent. **75**.

Sinoxylon anale = (*geminatum* Schilsky), LESNE (249) Abeille **30**.—*S. bufo* Borneo (482), *pachyodon* Birmanie (486), *diraricatum* Pays Somali (495), *epipleurale* Nyassa (496), *bellicosum* Graham Town (497), *erasicauda* Tanganyika (502), *angolense* Angola (507), *cuneolus* Transvaal (508), *dichroum* Birmanie (508), *pubens* Inde (511), *birmanum* Birmanie (540), *flabrarius* Tonkin etc. (543), *cucumella* Himalaya (544), **spp. n.**; *S. crassum dekkannense* subsp. n. (538), *atratum kohliarianum* subsp. n. (540), *transvaalense spathiferum* (533), *tr. verrugerum* (534), subspp. n., *senegalense* var. n. *vermiculatum* (501), LESNE Paris Ann. Soc. ent. **75**.—*S. ruficorne guineense* subsp. n. (413), *abruptum* Guinée portugaise **sp. n.** (414), LESNE Genova Ann. Mus. **42**.—*S. sexdentatum*, natural history, BARBEY Feuille jeunes natural. Paris **36** (93-97).

Xylionulus epigrus Zambèze, LESNE (409) Paris Ann. Soc. ent. **75**, **sp. n.**

Xylobosca decisa Australia (190), *geometrica* Roebuck bay (192), LESNE Bull. Mus. Paris **12**, **spp. n.**—*X. spinifrons* (415), *cuspidata* (416), *captiosa* (417), *vicaria* (418), Australie, LESNE Paris Ann. Soc. ent. **75**, **sp. n.**

Xyloperthodes **gen. n.** *Sinoxylinae* (545), *hora* (552), *clarula* (553), *incertus* (554), *erops* (556), *nasifer* (557), *granulatus* (558), *orthogonius*, *discedens*, (559), Afrique occ., LESNE T.c., **spp. n.**

Xylophorus, **gen. n.** auprès des *Enneadesmus* (419), *abnormis* **n. sp.** Ceylon (420), LESNE T.c.

Xylopsocus ritsemai Java (422), *acutespinosus* Birmanie (424), *ensifer* Tenasserim (425), LESNE T.c., **spp. n.**

(*Enneadesmus sculptifrons*, LESNE, Paris, Bul. soc. ent., **1905**, **sp. n.**)

(*Lyctus punctipennis*, FAUVEL, Rev. ent. Caen, **23**, 1904, **sp. n.**)

(*Sinoxylon doliolum cafrum*, LESNE, Paris, Bull. soc. ent., **1905**, **spp. n.**)

CIOIDAE.

(*Cis notatus*, *litteratus*, *bisculatus*, *cribellus*, *porcellus*, *micros*, FAUVEL, Rev. ent. Caen, **23**, 1904, **spp. n.**—*Cis zoufali*, Bosnien, REITTER, Entomol. Ztg. Wien, **21**, 1902, (1-9, mit 1 Taf.), **sp. n.**)

(*Emnearthron nigricans*, FAUVEL, T.c. **sp. n.**)

TENEBRIONIDAE.

Die von Fabricius beschriebenen Typen von *Tenebrioniden* in den Museen von Kopenhagen und Kiel. GEBIEN D. ent. Zs. Berlin **1906** (209-237).

Achthosus brunneus (251), *minutus* (252), N. S. Wales, CARTER Sydney N.S.W. Proc. Linn. Soc. **31**, **spp. n.**

Adelium coeruleum (255), *nitidum* (256), *punctum* (257) pl. xx f. 3, Australia, CARTER T.c., **spp. n.**—*Adelium* cf. *Brycopia*.

Adelphinus ordubadensis var. n. *fulvipennis* Kaukasus, REITTER Entomol. Ztg. Wien **25** (242).

Adesmia anatolica Asia minor, GANGLBAUER (275) Wien Ann. Hofmus. **20**, **sp. n.**

Allophylax **nom. n.** au lieu de *Neophylax* Bed. infra; BEDEL (178) Paris Bull. Soc. ent. 1906.

Alphasida lazaroï Motril, ESCALERA (235) Madrid Bol. Soc. espan. **6**, **sp. n.**

Alphitobius piceus, *diaperinus* synonymy, BEDEL (92) Paris Bull. Soc. ent. **1906**.

Amarygmus splendidulus Fabr., GEBIEN (226) D. ent. Zs. Berlin 1906.

Anemia subterranea Fabr. = (*suilla* Fairm.), GEBIEN (217) T.c.

Asida; variation of Spanish (381); *bolivari* (382), *lopezi* (383) with var *depilata*, Spain, **spp. n.**, ESCALERA Madrid Bol. Soc. esp. Hist.-Nat. **6**.—*A. reitteri* **nom. n.** for *convexicollis* Alld., GEBIEN (248) Entomol. Ztg. Wien **25**.—*A. sabulosa* = (*obesa* All.), BEDEL (92) Paris Bull. Soc. ent. **1906**.

Asididius convexicollis Madagascar, FAIRMAIRE (275) Paris Bull. Mus. Paris **12**, **sp. n.**

Blaps sp., Lebensweise, FAUSSEK St. Peterburg Zap. Russ. Geogr. Obsč. **27** (1 + 1-192 + 1) 4 Taf.

Brycopia taylori N.S. Wales (258) pl. xx. f. 6, CARTER Sydney N.S.W. Proc. Linn. Soc. **31**, **sp. n.**—*Adelium minor* and *globulosum* to *Brycopia*, Id. T.c. (259).

Byrsax cornutus synonymy, GEBIEN (218) D. ent. Zs. Berlin 1906.

Caedimorpha heteromerus, King (as *Morychus*) = (*australis* Blackb.), LEA (226) Sydney N.S.W. Proc. Linn. Soc. **31**.

Caenoblaps **gen. n.** *Blaptini* (24), *difformis* Caucasus **sp. n.** (25), KOENIG Entomol. Ztg. Wien 1906.

Cuenocorse Thoms. = (*Palorus* Duv.), BEDEL (92) Paris Bull. Soc. ent. **1906**.

Camaria aenea Fabr., GEBIEN (222) D. ent. Zs. Berlin 1906.—*C. dolorosa* Madagascar, FAIRMAIRE (273) Bull. Mus. Paris **12**, **sp. n.**

Cardiothorax; revised (236-240), *angusticollis* (240) pl. xx f. 8, *aureus* (241) f. 1, *australis* (242), *batesi* (243) f. 2, *laehlanensis* (244), *punctostriatus* (246), *pygmaeus* (247) f. 9, *rugosus* (248), *coeruleo-niger* (250), Australia, CARTER Sydney N.S.W. Proc. Linn. Soc. **31**, **spp. n.**

Catomus obsoletus var. **n.** *semiobscura*, PIC (41) Echange **22**.

Chaleostylus striolatus Madagascar, FAIRMAIRE (274) Bull. Mus. Paris **12**, **sp. n.**

Cleteus **gen. n.** voisin des *Luavezius* (274), *marginicollis* **sp. n.** Madagascar (275), FAIRMAIRE T.c.

Cnemodinus **nom. n.** = *Cnemodus* Horn, COCKERELL (242) Ent. News **17**.

Corticeus suberis Luc. = (*rufulus* Ros.), BEDEL (92) Paris Bull. Soc. ent. 1906.

Crypticus pentheri Asia Minor, GANGLBAUER (278) Wien Ann. Hofmus. **20**, **sp. n.**

Cyrtostoma ? *nitidula* Fabr., GEBIEN (223) D. ent. Zs. Berlin 1906.

Daedrosis hirsuta Australia, CARTER (254) pl. xx. f. 14 Sydney N.S.W. Proc. Linn. Soc. **31**, **sp. n.**

Dendarus Lap. = (*Pendarus* Muls. = *Phylax* Br.), BEDEL (92) Paris Bull. Soc. ent. **1906**.

Diehillus inhumeralis Turkestan, PIC (18) Echange **22**, **sp. n.**

Eschatoporis **gen. n.** near *Eulabis* (76), *nunenmacheri* **sp. n.** California (77), BLAISDELL Ent. News **17**.

Eupsophulus **nom. n.** for *Eupsophus* Horn, COCKERELL (242) Ent. News **17**.

Eurynotus capensis Fabr. = (*muriatus* Kirb.), GEBIEN (211) D. ent. Zs. Berlin 1906.—*E. granulatus* Fabr. = (*norrisi* Muls.), GEBIEN (230) T.c.

Globasida schrammi Murcia, ESCALERA (193) Madrid Bol. Soc. espan. **6**, **sp. n.**

Gonocephalum simplex Fabr. = (*aequale* Er., *micans* Germ., *segue* Thoms.), *G. erenatum* Fabr. to *Scleropatum*, *G. oblongum* Fabr. = (*elongatum* Guér.), GEBIEN (213-215) D. ent. Zs. Berlin 1906.

Gonoenemis sericeus Fabr. = *Synopticas dapsoides* Fairm., GEBIEN (225) T.c.

Heliocaës **nom. n.** for *Heliopates* Muls., BEDEL (92) Paris Bull. soc. ent. 1906.

Heliopathes, Begründung des Namens, HEYDEN Entomol. Ztg. Wien **25** (135-136).

Heliophilus Latr. subgen. *Pedinus* Latr. divisions and their nomenclature, SEIDLITZ Entomol. Ztg. Wien **25** (289).

Helops liliputans (375), *tomentosus* (376), Spain, REITTER Bol. Soc. esp. Hist. Nat. **6**, spp. n.—*H. pentheri* Asia Minor, GANGLBAUER (278) Wien Ann. Hofmus. **20**, sp. n.—*H. (Stenomax) steindachneri* sp. n. Albanien, APFELBECK Wien SitzBer. Ak. Wiss. **115** Abt. I (1671).

Hydromedion nitidum S. Georgia (9), pl. I f. 3, larva (10) f. 4, MjöBERG Uppsala Arkiv. Zool. **3** No. 13, sp. n.

Hypophloeus unicolor var. n. *pseudocastaneus* Öesterr. Occupationsgebiet & Attica, REITTER Entomol. Ztg. Wien **25** (242).

Idatius gen. n. voisin di *Nesogena* (276), *ophthalmicus* sp. n. Madagascar (277), FAIRMAIRE Bull. Mus. Paris **12**.

Kokeniella gen. n. *Tentyrini* (41), *mesostenoides* Salt Range sp. n. (42), REITTER Entomol. Ztg. Wien **25**.

Laena gebieni with var. n. *kaschmirensis*, *nigritissima*, *rosti*, Kaschmir, *hauseri*, *alaiensis*, *edda*, Turkestan, *osmanlis* Turkei, *pilosissima* Bukarest, spp. n., REITTER D. ent. Zs. **1906** (442-448).

Lepispilus styggiannus and *sulciollis* distinguished, CARTER (258) Sydney N.S.W. Proc. Linn. Soc. **31**.

Lichenum canaliculatum Fabr., GEBIEN (216) D. ent. Zs. Berlin 1906.

Liodema maculatum Fabr., GEBIEN (219) T.c.

Lobothorax (Discotus) riberti sp. n. Alger, REITTER Entomol. Ztg. Wien **25** (240).

Neophylax nom. n. for *Phylax* Muls., BEDEL (92) Paris Bull. Soc. ent. **1906**, cf. *Allophylax*.

Nesogena cyanipennis (277), *obscurivirens* (278), Madagascar, FAIRMAIRE Bull. Mus. Paris **12**, sp. n.

Nyctelia circumundata Patagonie, LESNE (15) Bull. Mus. Paris **12**, sp. n.—*N. longeplicata* f. 12, *bremei* f. 11, FAIRMAIRE (41) pl. i Résult. Belgica, Zoologie.

Nyetobates punctulatus Fabr. (? = *Milaris attenuatocollis* Motsch., GEBIEN (230) D. ent. Zs. Berlin 1906.

Oeatus excavatus Fabr., GEBIEN (221) T.c.

Ogcosoma canaliculata Fabr. = (*guineense* Haag), GEBIEN (211) T.c.

Opatrum porcatum Fabr. synonymy, GEBIEN (212, 213) T.c.

Otrintus striatus N. S. Wales, CARTER (253) pl. xx f. 4, Sydney N.S.W. Proc. Linn. Soc. **31**, sp. n.

Paehyehile (Lophoma) punctata F., Vorkommen in Andalusien, REITTER Entomol. Ztg. Wien **25**, (140).

Perimylops antarcticus, larva, MjöBERG Uppsala Arkiv. Zool. **3** No. 13 (12) pl. i f. 5.

Phaeogala serricornis (280), *fulvipennis* (281), Madagascar, FAIRMAIRE Bull. Mus. Paris **12**, spp. n.

Phaleria cadaverina, synonymy, GEBIEN (217) D. ent. Zs. Berlin 1906.

Phylan Steph. = (*Oloerates* Muls. = *Heliopates* Redt.), BEDEL (92) Paris Bull. Soc. ent. **1906**.

Pilobalia alboscipita Pérou, FAIRMAIRE Paris Ann. Soc. ent. **72** (461-468), sp. n. (Omitted from 1903 Record).

Pimelia crenata Fabr. = (*grandicollis* Kr.), GEBIEN (211) D. ent. Zs. Berlin 1906.—*P. (Gedeon) wernerii* Asia Minor, GANGLBAUER (277) Wien Ann. Hofmus. **20**, sp. n.

Reitterella turkestanica Turkestan, PIC (33) Echange **22**, sp. n.

Rhytinota kokeni sp. n. Salt Range, REITTER Entomol. Ztg. Wien **25** (42).

Scleron ferrugineum Fabr. = (*denticolle* Fairm. = *diseicolle* Reitt.), GEBIEN (217) D. ent. Zs. Berlin 1906.

Scleropatrum strigatum Fabr., GEBIEN (215) T.c.

Setenis impressa Fabr., GEBIEN (231) T.c.

Sphaeroecaulus echidna Madagascar, FAIRMAIRE (276) Bull. Mus. Paris **12**, sp. n.

Sphenothorax gen. n. for *Tenebrio nitidulus* Fabr., GEBIEN (232) D. ent. Zs. Berlin 1906.

Sternodes caspius, Lebensweise, FAUSSEK St. Petersburg Zap. Russ. Geogr. Obsč. **27** (1 + I-192 + 1) 4 Taf.

Strongylium fusco-aeneseens Madagascar, FAIRMAIRE (276) Bull. Mus. Paris **12**, sp. n.

Sulpis gen. n., voisin des *Clitobius*, *punctostriatus* sp. n. Madagascar, FAIRMAIRE (273) T.c.

Sympiezocnemis gigantea, Beibildung u. Lebensweise, FAUSSEK St. Petersburg Zap. Russ. Geogr. Obsč. **27** (1 + I-192 + 1).

Tarpela bicolor Fabr., GEBIEN (224) D. ent. Zs. Berlin 1906.

Tentyria calabriea sp. n., REITTER Entomol. Ztg. Wien **25** (130).—*T. orbiculata*, *haagi*, *aegyptiaca*, synonymical note, GEBIEN (230) D. ent. Zs. Berlin 1906.

Thisias apicenotatus sp. n. Brésil, *marmoratus* Champ. var. n. *subelongata*, PIC (36) Echange **22**.

Trachyseclis nigra Sydney pl. xx f. 11, CARTER (251) Sydney N.S.W. Proc. Linn. Soc. **31**, sp. n.

The following Tenebrionidae have been recorded in previous issues of the Zoological Record.

Adelium pustulosum, *austrocaledonicum*, FAUVEL, Rev. ent., Caen, **23**, 1904, spp. n.—*A. helmsi* Macleay River, *reticulatum*, Kurrajong, *violaceum*, Tweed River, *minor*, Ourimbah, *globulosum*, Kurrajong, N.S.W., CARTER, Sydney, N.S.W., Proc. Linn. Soc., **30**, (181-184), spp. n.)

Akis spinosa L. *ragusae* var. n., REITTER, Naturalista sicil., Palermo, **17**, 1904, (97.)

Arrhenoplita ensifera, FAUVEL, Rev. ent. Caen, **23**, 1904, sp. n.)

Asidelia n. gen., *contracta* sp. n., FAIRMAIRE, Paris, Ann. soc. ent., **74**.)

Bolitotherus cordicollis, *caneroides*, FAUVEL, Rev. ent. Caen, **23**, 1904, spp. n.)

Cedius globosus, FAUVEL, T.c. sp. n.)

Callismilar barayi, *variolosa*, *interrupta*, *fulgurans*, *coelestina*, *numeensis*, *externa*, *suturalis*, *arcitenens*, *cariceps*,

gloriosa, *semiviolacea*, *plicicollis*, *aureipennis*, *virescens*, *sulcipennis*, *setigera*, FAUVEL, T.c. spp. n.)

(Camaria obtusa, impressifrons, biaculeata, FAIRMAIRE, Paris, Ann. soc. ent., 74, spp. n.)

(Ceramba gen. n., hydroxatina, sp. n., FAUVEL, Rev. ent., Caen, 23.)

(Ceropria caerulea, FAUVEL, T.c. sp. n.)

(Cerostena infravestita, semistrigosa, FAIRMAIRE, Paris, Ann. soc. ent., 74, spp. n.)

(Cilibe asidæformis, FAUVEL, Rev. ent., Caen, 23, sp. n.)

(Coripera morleyana, distincta, Blue Mts., CARTER, Sydney, N.S.W., Proc. Linn. Soc., 30, (184-186), spp. n.)

(Crypticus raucheri, BEDEL, Paris, Bul. soc. ent., 1905, sp. n.)

(Cymbarba barayi sulcipennis, muscorum, indigacea, planipennis, FAUVEL, Rev. ent., Caen, 23, 1904, spp. n.)

(Derosimus gen. n., quadricollis, sp. n., FAIRMAIRE, Paris, Bul. soc. ent., 1904.)

(Diaclina picta sp. n., FAUVEL, Rev. ent., Caen, 23, sp. n.)

(Diostolinus acuticollis, quadricollis, fortipes, FAIRMAIRE, Paris, Ann. soc. ent., 74, spp. n.)

(Dietopsis buceolata, tennis, FAIRMAIRE, T.c. spp. n.)

(Eetomopsis gen. n., bruehi sp. n., FAIRMAIRE, T.c.)

(Edrotinus gen. n., tucumanus, sp. n., Tucuman, FAIRMAIRE, Paris, Ann. Soc. ent., 72, 1903.)

(Emmallodera granocostata, strangulata, FAIRMAIRE, Paris, Ann. soc. ent., 74, spp. n.)

(Eneara nigrum, Moruya, N.S.W., CARTER, Sydney, N.S.W., Proc. Linn. Soc., 30, (178), sp. n.)

(Entomoderes pustulosus, FAIRMAIRE, Paris, Ann. soc. ent., 74, sp. n.)

(Epipedonota planiuscula, FAIRMAIRE, sp. n., T.c.—E. strigosicollis, Argentine, FAIRMAIRE, Paris, Bul. soc. ent., 1904, sp. n.)

(Episopus cavipennis, championi, viridipennis, violaceipennis, FAUVEL, Rev. ent. Caen, 23, 1904, spp. n.)

(*Eustenina* gen. n. *tenuimembris* FAIRMAIRE, Paris, Ann. soc. ent., **74**, sp. n.)

(*Hyocis championi*, FAUVEL, Rev. ent. Caen, **23**, sp. n.)

(*Iscanus* gen. n., *kuniensis* sp. n., FAUVEL, T.c.)

(*Isopus kanak*, *obtus*, *productus*, *apicipennis*, *sulcifer*, *morychoides*, FAUVEL, T.c., spp. n.)

(*Lacna bodemeyeri*, Kleinasien, REITTER, Entomol. Ztg, Wien, **22**, 1903, (224), sp. n.)

(*Leptinoderes strangulatus*, Tucuman, FAIRMAIRE, Paris, Ann. Soc. ent., **72**, 1903, sp. n.)

(*Lorelus ocularis*, FAUVEL, Rev. ent. Caen, **23**, 1904, sp. n.)

(*Mcclasia apicipennis*, *fortestriata*, *punctata*, *microcephala*, *opacipennis*, *isoceroïdes*, *miriceps*, FAUVEL, T.c., (spp. n.)

(*Menophilus aeneus*, Rose Bay, N.S.W., CARTER, Sydney, N.S.W., Proc. Linn. Soc., **30**, (179), sp. n.)

(*Nyctelia vageimpressa*, *rotundipennis*, *inadriplicata*, Argentine, FAIRMAIRE, Paris, Bul. Soc. ent., **1904**, (61-64), qpp. n.—*N. timarchoides*, *suturacava*, *geometrica*, *confluens*, *discoïdalis*, *exasperata*, *blapoïdes*, *pinguis*, *quadrirarinata*, *unicostata*, *bifoveata*, *planicauda*, *producta*, *dorsata*, *crassecostata*, *quadrifollis*, FAIRMAIRE, Paris, Ann. Soc. ent., **74**, spp. n.)

(*Oochrotus glaber*, DEMAISON, Paris, Bul. soc. ent., **1904**, sp. n.)

(*Otrintus jacksoni*, Bellinger River, N.S.W., CARTER, Sydney, N.S.W., Proc. Linn. Soc., **30**, (180), sp. n.)

(*Palorus laxipunctus*, FAUVEL, Rev. ent. Caen, **23**, 1904, sp. n.)

(*Païta* gen. n., *setosella* sp. n., FAUVEL, T.c.)

(*Phobelius semigranosus*, FAIRMAIRE, Paris, Ann. soc. ent., **74**, sp. n.)

(*Phymatosoma rutilans*, FAIRMAIRE, Mission Pavie, **3**, sp. n.)

(*Pracoidia* gen. n., Tucuman, FAIRMAIRE, Paris, Ann. Soc. ent., **72**, 1903.)

(*Psectrascelis ambigena*, *semistrigosa*, Tucuman, FAIRMAIRE, Paris, Ann. soc. ent., **72**, 1903, spp. n.—*P. cariosicollis*, Argentine, FAIRMAIRE, Paris, Bull. soc.

ent., **1904**, sp. n.—*P. coriaria*, FAIRMAIRE, Paris, Ann. soc. ent., **74**, sp. n.)

(*Pseudelops fossatus*, *remotus*, *annulipes*, *macellus*, *trapezus*, FAUVEL, Rev. ent. Caen, **23**, 1904, spp. n.)

(*Pterohelaeus icarus*, Forbes, N.S.W., CARTER, Sydney, N.S.W., Proc. Linn. Soc., **33**, (177), sp. n.)

(*Scotobius depressicollis*, *ligans*, Tucuman, FAIRMAIRE, Paris, Ann. Soc. ent., **72**, 1903, spp. n.—*S. caraboïdes*, *cribricollis*, *quadrifolius*, FAIRMAIRE, Paris, Ann. Soc. ent., **74**, spp. n.)

(*Strongylium cupreocinctum*, Tucuman, FAIRMAIRE, Paris, Ann. Soc. ent., **72**, 1903, sp. n.)

(*Telleus* gen. n., *crenatus* sp. n., Tucuman, FAIRMAIRE, T.c.)

(*Thesilea mirabilis*, *kanalensis*, *politula*, *versicolor*, *purpurea*, FAUVEL, Rev. ent., Caen, **24**, 1905, spp. n.)

CISTELIDAE = ALLECULIDAE.

Brachycala gen. n. voisin de *Allecula*, *quadrivittata* sp. n. Madagascar, FAIRMAIRE (278) Bull. Mus. Paris **12**.

Cistela quinquelineata (278), *interrupta*, *sextivittata*, (279), *subvittata* (280), Madagascar, FAIRMAIRE T.c., spp. n.

Ctenoposomus subgen. n. *Cteniopus*, REITTER Brunn Verh. Natf. Ver. **44** (135).

Gastrhaema nigripennis Fabr. varr. n., REITTER T.c. (136).

Heliomophilus subgen. n. *Heliotaurus*, REITTER T.c. (147).

Heliotaurus distinctus and *plenifrons*, PIC Paris Bul. soc. ent. **1906** (186-187). —*H. sanguinicollis* Spanien, *seidlitzii* Algier & Sizilien spp. n., REITTER Brunn Verh. Natf. Ver. **44** (143).

Holdhausia gen. n. für *Cteniopus* (?) *crassus* Fairm., REITTER T.c. (125).

Julogenius subgen. n. *Heliotaurus*, REITTER T.c. (136).

Megischina gen. n. für *adaliae*, *armilata*, *rosinae*, REITTER T.c. (171).

Omophilina pentheri Asia Minor, GANGLAUER (279) Wien Ann. Hofmus. **20**, sp. n.

Omophilini; Uebersicht der europäischen Arten, REITTER Brunn Verh. Natf. Ver. **44** (115-175).

Omophlus anatolicus, *atticus*, Attica & Euboea, *bodemyeri* Kleinasien, *conicicollis* Kurdistan, *dubitatus* Russ.-Armenien, *irregularis* Hochsyrien, *lepidus* Kleinasien, *mitis* Kaukasus & Samarkand, *salbachii* Hochsyrien, *sandneri* Kleinasien & Kurdistan, *talyschenensis*, *turanicus*, spp. n., REITTER Brönn Verh. Natf. Ver. **44** (155).—*O. quadricollis*, Auftreten, Verbreitung, Schaden, ŠUGUROV Zap. Obšč. sel'sk. choz. Južn. Ross. **75** (87-94).—*O. reitteri* sp. n. Kaukasus, KOENIG Entomol. Ztg. Wien **25** (25).

Pleuromophlus subgen. n. *Heliotaurus*, REITTER T.c. (146).

Podonta bodemeyeri Kleinasien, *flecki* Dobrutscha, *rotundangula* Kleinasien, spp. n., REITTER T.c. (123).

Rhinobarus subgen. n. *Cteniopus*, REITTER T.c. (131).

Stenerophlina gen. n. für *Omophlina* *hauseri* Reitt., REITTER T.c. (130).

Viriatulus alternans Madagascar, FAIRMAIRE (280) Bull. Mus. Paris **12**, sp. n.

(*Allecula strigicollis*, *rugicollis*, *quadrillum*, *phyllocera*, *simplex*, *tenuicornis*, *pusilla*, *insulana*, *laevior*, *cupreipennis*, *umbonata*, *montana*, *curticollis*, *anthracina*, *opacula*, FAUVEL, Rev. ent., Caen, **24**, 1905, sp. n.)

(*Lystronychus humeralis*, FAIRMAIRE, Paris, Ann. soc. ent., **74**, sp. n.)

(*Omophlus splendidus*, BEDEL, Paris, Bul. soc. ent., **1905**, sp. n.)

(*Prionychus nitidissimus*, PIC, (383), Paris, Bul. soc. ent., **1904**, sp. n.)

MELANDRYIDAE.

Abdera picea Walk. is not *A. (Carida) affinis* Payk., SHARP (220) Ent. Mag. London **42**.

Eustrophus brunneimarginatus sp. n. Cincinnati, DURY Cincinnati Ohio J. Soc. **20** (251-256).

Tolmerus longipennis, FAIRMAIRE (42) pl. i f. 13 Résult. Belgica, Zoologie.

(*Phloeotrya nebulosa*, *lancifera*, FAUVEL, Rev. ent., Caen, **24**, 1905, spp. n.)

LAGRIIDAE.

Nemostira elegans Madagascar, FAIRMAIRE (281) Bul. Mus. Paris **12**, sp. n.

(*Lagria heros*, *denticornis*, *rhytidonota*, Borneo, FAIRMAIRE, Paris, Bul. soc. ent., **1903**, (300-301), sp. n.)

(*Sphinctoderus* gen. n., *strangulatus* sp. n., Borneo, FAIRMAIRE, Paris, Bul. soc. ent., **1903**, (300-301).)

ANTHICIDAE, XYLOPHILIDAE, PEDILIDAE.

Anthicus amazonicus Amazonas, *sparsepunctatus* Manille, PIC (58) Echange **22**, spp. n.—*A. manueli* Valencia, PIC (12) T.c., sp. n.—*A. balachanus* Transcaspian, *hauseri* Thibet, PIC (49) T.c., spp. n.—*A. insolubilis*, *alaiensis*, Turkestan, PIC (19) T.c., spp. n.—*A. insperatus* Turkestan, PIC (46) Paris Bul. Soc. entom. **1906**, sp. n.—*A. hammani* *viberti* subsp. n., *bonnairei* var. *nubilicollis* var. n. (284), *insignitus* sp. n. Tunis (285), PIC T.c.—*A. subcervuleus* (78), *rosti* (79), Kashmir, PIC T.c., spp. n.—*A. subcrassipes* Pondichéry, PIC (62) Paris Bul. soc. zool. **31**, sp. n.—*A. postmaculatus* Buenos Aires (329), *A. (Ischyropalpus) bruchi* Tucuman (330), spp. n.; *bimaculifer* var. n. *carlosi*, *albofasciatus* var. n. *argentina*; PIC Revist. Mus. La Plata **11** (330) 1904.

Conomorpha apicalis Brésil, PIC (45) Echange **22**, sp. n.

Formicilla bruchi Buenos Aires, PIC (329) Revist. Mus. La Plata **11** 1904, sp. n.

Formicomus curtipennis Afrique or., PIC (23) Bul. Mus. Paris **12**, sp. n.—*F. birmanicus* Birmania, PIC (61) Paris Bul. Soc. Zool. **31**, sp. n.—*F. fouqueti* Saïgon, PIC (18) Echange **22**, sp. n.—*F. hauseri* PIC et *F. sterbae* Reitter, PIC Paris Bul. soc. ent. **1906** (175-176).—*F. sterbae* Rtr., *hauseri* PIC, *latro* Laf., Synonymie, REITTER Entomol. Ztg. Wien **25** (21).

Hylophilus feai sp. n. Iles du Cap Vert, PIC Genova Ann. Mus. **42** (234).—*H. pictus* (30), *atratus* (31), *brevicollis*, *densicollis*, *bicinctus*, (32), New Caledonia, FAUVEL Rev. ent. Caen **25**, spp. n.

Maeratria caledonica New Caledonia, FAUVEL (29) T.c., **sp. n.**

Notoxus rothschildi Afrique or., PIC (22) Bul. Mus. Paris **12**, **sp. n.**

Physcius impressipennis (55), *brasiliensis*, *subdepressus*, (56), Brésil, PIC Echange **22**, **spp. n.**—*P. maculatus* St. Domingo, PIC (176) Naturaliste 1906, **sp. n.**

Tanarthropsis virginalis (168), *mormon*, *inyo*, (169), *infernalis* (171), N. America, **spp. n.**, WICKHAM Philadelphia Pa. Trans. Amer. Ent. Soc. **32**.

(*Formicomus sterbae*, Turkestan, REITTER, Entomol. Ztg., Wien, **24**, 1905, (206), **sp. n.**)

(*Hylophilus bottegoidi*, *dirersicornis*, *grandipes*, *punctatus*, *magniceps*, *distincticornis*, *vicinus*, *apicipennis*, *rufithorax*, *vicinus*, *obscuricolor*, *semi-brunneus*, PIC, Paris, Ann. soc. ent., **74**, 1905, **spp. n.**)

(*Anthicus decerptus* **sp. n.**, PIC, Paris, Bul. soc. ent., **1904**, (118-119).—*A. lobatus*, *remotus*, PIC, Paris, Bul. soc. ent., **1905**, **sp. n.**)

(*Egestria albilineata*, Gosford, N.S.W., CARTER, Sydney, N.S.W., Proc. Linn. Soc., **30**, (189), **sp. n.**)

(*Hylophilus angusticollis*, *decorsei*, PIC, Paris, Bul. soc. ent., **1904**, **spp. n.**)

(*Maeratria basithorax*, PIC, Paris, Bul. soc. ent., **1905**, **sp. n.**)

RHIPHORIDAE.

Blattivorus madagascariensis Madagascar, CHABAUT (203) Paris Bul. Soc. ent. **1906**, **sp. n.**

Macrosiagon (Emenadia) baeri, *multi-notata*, (175), *brasiliensis* (176), **spp. n.**, S. America, *limbata* var. *n. angustissima* (176), PIC Naturaliste 1906.—*M. (Emenadia) biolleyi* Costa Rica, PIC (56) Echange **22**, **sp. n.**

Macrosiagon tricuspidata triongulinide, CHABAUT Paris Bul. soc. ent. **1906**, (270-272) av. fig.—*M. (Emenadia) varicollis* Fairm. var. *n. tonkinea*, *ladeleuci* **sp. n.** Iles Andaman, PIC (44) Echange **22**.

Myiodes subdipterus Bosc., habitat, synonymie, CHABAUT Paris Bul. soc. ent. **1906** (223-224).—*M. subdipterus* (N-9720 j)

Bosc., triongulinide, CHABAUT Paris Bul. soc. ent. **1906** (238-244) av. fig.

Rhyzostylops **gen. n.** *Rhipiphoridae* approaching *Stylopidae* (316), *inquirendus* **sp. n.** Umbria (317) pl. xx, SILVESTRI Redia **3**.

(*Ancholaemus acuminatus*, Brasil, FAIRMAIRE, Paris, Bul. soc. ent., **1904**, **sp. n.**)

(*Eraniocera*, palaearetische Arten, REITTER, Entomol. Ztg, Wien, **22**, 1903, (237-238).—*E. hauseri* **sp. n.**, Persien, REITTER, Entomol. Ztg, Wien, **22**, 1903, (238).)

(*Macrosiagon carinicornis*, FAUVEL, Rev. ent., Caen, **24**, 1905, **sp. n.**)

STREPSIPTERA.

Strepsiptera is a division of *Coleoptera*, FRIESE (737-740) Zool. Anz. **29**.

How to collect *Stylopidae*, DURY Ohio Nat. **6** (443).

Elenchus tenuicornis, metamorphosis, MUIR (6-10) pl. i Honolulu Exp. Stat. Bull. **2**.

Xenos moutoni, male, DU BUYSSON (11) Rev. ent. Caen **25**.

MORDELLIDAE.

Anaspis (Silaria) tibialis Kashmir (24), *bickhardti* Corsica (25), SCHILSKY Küster Käf. Eur. **43**, **spp. n.**

Mordella reticulata (281), *tetragramma*, *melanozosta*, *denudata*, (282), Madagascar, FAIRMAIRE Bul. Mus. Paris **12**, **spp. n.**—*M. weisei* **sp. n.** Usambara, SCHILSKY D. ent. Zs. **1906** (465).

Mordellistena antennata **sp. n.** Usambara. SCHILSKY T.c. (166).—*M. delicatula* **sp. n.** Cincinnati, DURY Cincinnati Ohio J. Soc. **20** (251-256).

(*Anaspis (Silaria) numeensis*, FAUVEL, Rev. ent., Caen, **24**, 1905, **sp. n.**)

(*Mordellistena arabica*, Arabie, CHABAUT, Paris, Bul. soc. ent., **1904**, **sp. n.**—*M. caledonica*, FAUVEL, Rev. ent., Caen, **24**, 1905, **sp. n.**)

CANTHARIDAE = MELOIDAE.

Cantharis cinereocostata = (*Lagorinus* Esch.), PIC (48) Paris Bul. soc. entom. **1906**.

Coryna rothschildi Afrique or., PIC (23) Bul. Mus. Paris **12**, sp. n.

Filalia (Sitaris) cerambycina Mogador, ESCALERA (161) Madrid Bol. Soc. espan. **6**, sp. n.

Lytta clematidis var. n. *korbi*, PIC (18) Echange **22**.

Mylabris pentheri Asia Minor, GANGLBAUER (279) Wien Ann. Hofmus. **20**, sp. n.

Rhampholyssa antennata sp. n. Transkaspien, REITTER Entomol. Ztg Wien **25** (36).

Zonabris oleae var. n. *multinotata*, *18-punctata* var. n. *tunisea*, PIC (26) Echange **22**.

(*Epicauta*, Uebersicht der palaearktischen Arten, REITTER, Entomol. Ztg., Wien, **24**, 1905, (194-196).—*E. obscuroides*, China, REITTER, T.c. (194-196), sp. n.)

(*Lydus tenuicollis*, Mittelpersien, REITTER, T.c. (246), sp. n.)

(*Meloë frontalis*, Zentral-Persien, *mathiesseni*, Mittelpersien, REITTER, T.c. (245).)

(*Pseudomeloe gracilior*, *guttulatus*, *bacri*, *subifrons*, *sublaevis*, Tucuman, FAIRMAIRE, Paris, Ann. Soc. ent., **72**, 1903, spp. n.)

(*Zonabris bosnica*, Südbosnien, Herzegovina, REITTER, Entomol. Ztg., Wien, **22**, 1903, (230), sp. n.)

(*Zonitis nigripennis*, *atriceps*, FAUVEL, Rev. ent., Caen, **24**, 1905, spp. n.)

PYTHIDAE.

Lissodema plagiatum New Caledonia, FAUVEL (39) Rev. ent. Caen **25**, sp. n.

(*Rhinosimus caucasicus*, REITTER, Entomol. Ztg., Wien, **24**, 1905, (312), sp. n.)

(*Salpingus distincticollis*, *bisbimaculatus*, Madagascar, PIC, Paris, Bul. soc. ent., **1904**, sp. n.)

PYROCHIROIDAE.

Dendroides grandipennis Chine, PIC (29) Echange **22**, sp. n.

Lemodes splendens N.S. Wales pl. xviii f. 9, LEA (226) Sydney N.S.W. Proc. Linn. Soc. **31**, sp. n.

Pyrochroa deplanata Malabar, *bipartita* Sumatra, *impressiceps*, (28), *basalis* (29), Java, PIC Echange **22**, spp. n.

OEDEMERIDAE.

Nacerda (Anoncodes) caucasica Caucas., PIC (19) Echange **22**, sp. n.

Probosca notatithorax Arabie, PIC (26) T.c., sp. n.

Selenopalpus caledonicus New Caledonia, FAUVEL (34) Rev. ent. Caen **25**, sp. n.

Sessinia funerea (37), *vittigera*, *platyptera*, (38), New Caledonia, FAUVEL T.c., spp. n.

(*Oedemera laufferi*, Spanien, REITTER, Entomol. Ztg., Wien, **24**, 1905, (206), sp. n.)

(*Pseudolychnus montanus*, *rufipennis*, Blackheath, CARTER, Sydney, N.S.W., Proc. Linn. Soc., **30**, (187-188), spp. n.)

CURCULIONIDAE.

Catalogue of *Curculionidae* and *Anthribidae* of Belgium, BOVIE (59-93) Bruxelles Ann. Soc. ent. Belgique **50**.

Integumental structures of larvae living in wood, LEISEWITZ.

"Aquatic weevil," metamorphoses, ANNANDALE and PAIVA J. As. Soc. Bengal **2** (197-200).

Maxilla in Rhynchophorans *Colcoptera*. Correction to paper on development of the rostrum . . . by E. M. McClenahan; NEEDHAM Psyche **17** (36).

Acalles = (*Trachodius* Weise), *papei* Italia, with var. *balcanicus* (96), *clermonti* Algieria (98), SOLARI Genova Ann. Mus. **42**, spp. n.—*A. nodipennis* Algérie, PIC (34) Echange **22**, sp. n.

Acallorneuma gen. n. prope *Acalles*, *reitteri* sp. n. Italia, MAINARDI Riv. Col. ital. **5** (149-156) con 4 fig.

Acamptoides gen. n. *Cryptorhynchides*, *angustus* sp. n. Guatemala pl. xxxv f. 11, CHAMPION (712) Biol. Centr.-Amer. Col. **4** pt. 4.

Acythopeus aterrimus = (*Baris orchivora* Blackb.), LEA (101) Adelaide S. Aust. Trans. R. Soc. **30**.

Adionychus **gen. n.** for *Dionychus grandicollis* Kirsch, HELLER (27) Stettiner ent. Ztg. **67**.

Aenesias sulcifrons Mexico, CHAMPION pl. xxxv f. 30 (728) Biol. Centr.-Amer. Col. **4** pt. 4, **sp. n.**

Ampelogypter nitidus (428), *speculifer* (429), *nicaraguensis* (430), Nicaragua, SOLARI Genova Ann. Mus. **42**, **spp. n.**

Anoplus setulosus, validity, DEVILLE (266) Abeille **30**.

Anopsilus inermis Paraguay (439), *mexicanus* Sierra Durango (440), SOLARI Genova Ann. Mus. **42**, **spp. n.**

Anthonomus otidocephaloides Panama, pl. xxxv f. 24 (722), CHAMPION Biol. Centr.-Amer. Col. **4** pt. 4 **sp. n.**—Appareil digestif de la larve d'*A. pomorum*, BORDAS Paris C.-R. soc. biol. **60** 1905 (1163–1164).

Anotiscus **gen. n.** for part of *Homalotus*, *densatus* Brazil, *inermis* Cayenne, (369), *umbilicatus* Guadeloupe (370), **spp. n.**, DESBROCHERS Bruxelles Ann. Soc. ent. Belgique **50**.

Aphaenicus **subg. n.** of *Mecaspis*, for *alternatus* Herbst, DESBROCHERS (31) Frelon **14**.

Apion; table of palaearctic, with subgenera, (? some of them new), and list of food-plants; SCHILSKY Küster Käf. Eur. **43**.—*A. acuminatum* Spain (31), *chobanti* Algiers (19), *clavatum* Spain (3), *deletum* Dschilarik (38), *judaicum* Palestine (18), *laufferi* Spain (20), *lencense* Siberia (67), *lesnei* Mantchuria (28), *longiceps* Daghestan (5), *monticola* Bosnia (15), *puncticollis* Susa (27), *quadriricostatum* Syria (8), *rectirostre* Mantchuria (58), *sublineatum* Armenia (?) (21), *transsylvanicum* Siebenbürgen (10), **spp. n.**, SCHILSKY in Küster and Kraatz Käfer Europas **42**.—*A. coreyracum* Corfu, **sp. n.**, Id. T.c. **43**.—*A. cyladoides* (78), *transvaalense* (79), **spp. n.**, Transvaal, HARTMANN D. ent. Zs. Berlin.—*A. wagneri* **sp. n.**, Portugal, FLACH Entomol. Ztg. Wien **25** 1906 (121).—*A. rufum* Italia mer. (100), *liguricum* Liguria (101), SOLARI Genova Ann. Mus. **42**, **spp. n.**

Apoderus affinis (77), *rugicollis* (76), Pekin, **spp. n.**, SCHILSKY in Küster and Kraatz Käfer Europas **42**.

Apotomorrhinus orchidearum **sp. n.**, KOLBE Gartenflora Berlin **55** (2–6).

Apteromechus scabrosus pl. xxx f. 23 (621), *deciduus* f. 24, *nitidifrons* f. 25, *rugipectus*, (622), *pigmentatus* f. 26, *stigmaticus* f. 27, (623), *melanostigma* f. 28, *subfasciatus* f. 29, *rugirostris*, (624), *longulus*, *punctiventris*, (625), *debilis*, *flavopunctatus* f. 31, *opacifrons*, (626), *rugulifrons*, *parvus*, *leucospilus* f. 30, (627), Central America; CHAMPION Biol. Centr.-Amer. Col. **4** pt. 4, **spp. n.**

Arachnomorpha **gen. n.** near *Mnemyne*, *circumlineata* **sp. n.** Panama pl. iii f. 23, CHAMPION (47) T.c.

Archocopturus regalis Boh. pl. iii f. 17 (43), CHAMPION T.c.

Argoptochus; Artübersicht, (222–227), subg. n. vide *Henschia*; *interruptus* **sp. n.** Ephesus (226), REITTER Brünn Verh. Natf. Ver. **44**.—*A. periteloides* = (*Foucattia serbica* Apf.), FORMÁNEK Entomol. Ztg. Wien **25** (40).

Atroniscus **gen. n.** for *Cholus basalis*, DESBROCHERS (356) Bruxelles Ann. Soc. ent. Belgique **50**.

Attelabus spinipes **sp. n.** Pekin (88), SCHILSKY in Küster and Kraatz Käfer Europas **42**.

Bagaimorphus **gen. n.** near *Bagous*, *laticollis* **sp. n.** Asia Minor, DESBROCHERS (11) Frelon **14**.

Bagous nupharis **sp. n.** Albanien, APFELBECK (1672) Wien SitzBer. Ak. Wiss. **115** Abt. I (1672).

Baris ignifer var. n. *chloroptera*, FUENTE (285) Madrid Bol. Soc. esp. **6**.—*B. grandicollis* Asia Minor, SCHULTZE (281) Wien Ann. Hofmus. **20**, **sp. n.**—*B. purpurea* Valencia, REITTER (379) Madrid Bol. Soc. esp. Hist. nat. **6**, **sp. n.**—*B. angophorae* (86), *sororia*, *subopaca*, (87), *vagans*, *australiae*, (88), *oblonga*, *microscopica*, (89), *sublaminata*, *elliptica*, (90), *glabra*, *albopicta*, (91), *tenuistriata* (92), *albipuncta*, *niveonotata*, (93), *basirostris*, *devia*, (94), *ebenina*, *porosa*, (95), Australia or Tasmania, LEA Adelaide S. Aust. Trans. R. Soc. **30**, **spp. n.**—*B. setosella* (418), *managuensis*, Nicaragua, *seriatosetosa* Messico, (419), *nicaraguensis* Managua (420), SOLARI Genova Ann. Mus. **42**, **spp. n.**—*B.*

orchirora cf. *Acythopeus aterrimus*.—*Baris* sp., and cole in Nord-Holland, QUANJER Haarlem Nat. Verh. Holl. Maatsch. Wet. **6** (1-84) 7 Taf.

Bothrobatys laticollis pl. xxix f. 30 (607), CHAMPION Biol. Centr.-Amer. Col. **4** pt. 1.

Brachycerus callosus Sch. = (*chevrolati* Fährs.), BEDEL (92) Paris Bull. Soc. ent. **1906**.—*B. interpositus*, *loquax* (Fst. i. l.), (66), *sulcicollis* (67), **spp. n.**, Transvaal, *granosus* and *apterus* distinguished, HARTMANN D. ent. Zs. Berlin **1906**.

Brachyenemis vittatus Colombia, DESBROCHERS (371) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**

Brachysomus solaris **sp. n.** Dobrudscha, FORMÁNEK Entomol. Ztg. Wien **25** (38).

Bytiscus gibbirostris **sp. n.** Japan, SCHITSKY (85) in Küster and Kraatz Käfer Europas **42**.

Caenopsis maderiensis Madère, *augustior* Algérie, PIC (3) Echange **22**, **spp. n.**

Camelodes pascoei Brasile, SOLARI (438) Genova Ann. Mus. **42**, **sp. n.**

Catapionus semiglabratus var. *n. magnini*, PIC (34) Echange **22**.

Cathormiocerus ? *picturatus* Spain, DESBROCHERS (21) Frelon **14**, **sp. n.**

Catiline **gen. n.** *Ceratopina* (720), *conotrachelinus* **sp. n.** Panama pl. xxxv f. 22 (721), CHAMPION Biol. Centr.-Amer. Col. **4** pt. 4.

Caulostrophilus **gen. n.** near *Neliocarus* (13), *breviuseculus* Tangier (14), *linocellus* Andalusia (15), **spp. n.**, DESBROCHERS Frelon **14**.

Caulostrophus caesipes Algeria, SOLARI (89) Genova Ann. Mus. **42**, **sp. n.**

Ceutorhynchidius terminatus, BÖRNER Berlin Arb. biol. Anst. **5** (283-292).

Chaerocephalus immunis Algeria, DESBROCHERS (4) Frelon **14**, **sp. n.**—*C. tunisicus* Tunisie, PIC (11) Echange **22**, **sp. n.**

Chaleodermus speculifer **sp. n.** S. America, HELLER (30) Stettiner ent. Ztg. **67**.

Chlorophanus algericus Algeria, DESBROCHERS (9) Frelon **14**, **sp. n.**

Cholus argentinicus Chaco (16), *bipertitus* Costa Rica (21), *cananichensis* Colombia (14), *chrysalis* Costa Rica (15), *jocosus* (19), *melancholicus* (17), with **var. n. confluentis**, Colombia, *niveodecoratus* (13), *sanguineolytris* (23), *sanguineocostatus* (22), Colombia, **spp. n.**, HELLER Stettiner ent. Ztg. **67**.—*C. bipertitus* Heller pl. xxxv f. 27 (725), *chrysalis* Heller f. 28 (726), *C. pittieri* f. 26 (725) **sp. n.**, CHAMPION Biol. Centr. Amer. Col. **4** pt. 4.—*C. dispersus* (357), *coralis*, Brazil, *similans* Colombia, *interrupte-arcuatus* Bolivia, (358), *fimbriatus*, *bipartitus*, Amazons, *niveicinctus*, *subcinctus*, Cayenne, (359), *jekeli* Amazons, *lituraticollis* Brazil, *depressiuseculus*, (316), *gulo* Cayenne, *tigrinellus*, *ruginosus*, (361), *23-maculatus* Colombia, *trilineatus* Venezuela, *biinterruptus* Antilles, (362), *championi* Bolivia, *frater* Brazil, (363), *aemulus* Amazons, *interruptefasciatus*, *subcostatus*, (364), *tennefasciatus* (365), Colombia, DESBROCHERS Bruxelles Ann. Soc. ent. Belgique **50**, **spp. n.**

Cionus tissoni **sp. n.** Damascus, REITTER D. ent. Zs. **1906** (451).

Cleonus; the French species, (27-75), *glauens* var. *n. nubilus* (34), *C. subg. n.* cf. *Noctirius*, DESBROCHERS Frelon **14**.—*Cleonus mendicus* Gyll. MAYET, Paris Bul. soc. ent. **1906** (102-104) av. fig.—*C. punctiventris* Germ., Biologie. BERNAL Vést. sacharn. promysl. **5** (243-247); Lebensweise, Bekämpfung, POSPELOV Vést. sacharn. promysl. **7** (236-244, 275-283, 331-342).

Coelonertus **gen. n.** *Nertidi* (441), *squamulosus*, *nigrirostris*, (442), *alternatus* (443), *baridioides* (444), **spp. n.**, Brasile, SOLARI Genova Ann. Mus. **42**.

Conapion ripicola **sp. n.** Transvaal, HARTMANN (79) D. ent. Zs. Berlin **1906**.

Conotrachelus biolleyi Costa Rica, CHAMPION pl. xxxv f. 29 (727) Biol. Centr.-Amer. Col. **4** pt. 4 **sp. n.**—*C. tuberculicollis* (339), *arizonicus*, *ecarinatus*, (340), Arizona, *texanus* Brownsville (342), SCHAEFFER Canad. Entomol. **38**, **spp. n.**

Copturomimus cinereus Hell., pl. iv f. 24 (64), CHAMPION Biol. Centr.-Amer. Col. **4** pt. 5.—*C. ochreonotatus* pl. iv f. 18 (60), *rufocinctus* f. 19, *octocos-*

tatus f. 20, (61), *stridulans* f. 21, *caeruleotinctus* f. 22, (62), *asperatus* f. 23, *sparsus*, (63), *brevicollis*, *confluens* f. 25, (64), Central America, CHAMPION T.c., **spp. n.**

Copturomorpha **gen. n.** *Zygopina* (65), *interrupta* pl. iv f. 26, *11-notata* f. 27, (66), *rugipennis*, *albomaculata* f. 28, *albosignata* f. 29, (67), *leucosticta* f. 30, *funerea*, (68), **spp. n.**, Central America. CHAMPION T.c.

Copturus centralis, pl. v f. 6 (71), *craratus*, *errucosus* f. 7, (72), *constrictus* f. 8, *unifasciatus* f. 9, (73), *lynceus* f. 10, *fulvomaculatus* f. 11, (74), *sericeus* f. 12, *maculosus* f. 13, (75), *tricolor* f. 14, *montezuma* f. 15, (76), *cincticollis* f. 17 (77), *quadricolor* f. 18, *ruficollis* f. 19, (78), *atrosignatus* f. 24, (79), *histricus* f. 28, *amoenus* f. 29, (81), *fulvocruciatus* f. 30, *multiguttatus* f. 31, (82), *griclipes* f. 32, *bicinctus* f. 33, *undatus*, (83), *fulvosignatus* pl. vi f. 1, *ignicollis* f. 2, (84), *albidus* f. 3 (85), *latitarsis* (86), Central America, CHAMPION T.c., **spp. n.**—*C. horridus*, *jatrophac*, (56), *filicornis* (57), *princeps*, *littoralis*, (58), *mediinotus* (59), *dehiscens*, *centropictus*, (60), **spp. n.**, N. America, FALL Philadelphia Pa. Trans. Amer. Ent. Soc. 32.—*C. martae* Hell., pl. v f. 1, *avicularis* Boh. f. 2, (70), *deplanus* Fabr. figs. 3 4, *mexicanus* Hell. f. 5, (71), *neohispanicus* Hell. f. 16 (77), *conturbatus* Hell. f. 20, *torquatus* Hell. f. 21, (78), *lamprothorax* Hell. figs. 22 23 (79), *quadricinctus* Hell. f. 25, *ludiosus* Boh. f. 26, *gracilis* Hell. f. 27, (80), *furfuraceus* Germ. f. 4 (85), CHAMPION Biol. Centr.-Amer. Col. 4 pt. 5.

Corigetus coniceps **sp. n.** Ost-Turkestan, REITTER Entomol. Ztg. Wien 25 (244).

Costolatychus **gen. n.** for *Piazurus ochrocephalus* Schönh., HELLER (35) Stettiner ent. Ztg. 67.

Cratosomus punctulatus Gyll. pl. i f. 3 (3), varr. and synonymy (4), *lafontii* Guér. f. 8, *gemmatus* Lec. f. 9, (5), CHAMPION Biol. Centr.-Amer. Col. 4 pt. 5.—*C. annulipes* pl. i f. 1 (3), *spicatus* f. 11, *augustus* pl. ii f. 1, (6), *pulverulentus* pl. i f. 12, *aspersus* f. 13, (7), *cuneatus* f. 14, *bidens* f. 16, (8), Central America, CHAMPION T.c., **spp. n.**

Cryptorrhynchus foreatus Boh. pl. xxxi f. 15 (637), *plumipes* Boh. (as *Gasterocercus*) f. 19 (640), *dorsalis* Boh. pl. xxxiii f. 7, (671), *tirunculus* Boh. f. 13 (673), *consobrinus* f. 21 (679), CHAMPION Biol. Centr.-Amer. Col. 4 pt. 4.—*C. mistus* pl. xxxi f. 8 (633), *cordubensis* f. 9, *latisquamis* f. 10, (634), *sublincatus* f. 11, *belli* f. 12, (635), *atrosignatus* f. 13 (636), *variolosus*, *convexicollis* f. 14, (637), *melastomae* f. 16 (638), *erotonis* f. 17, *aqualis* f. 18, (639), *spiculosis* f. 21 (641), *placatus* f. 22, *curtirostris* f. 23 (642), *yucatanus* (643), *forceifrons* f. 24, *r-nigrum* f. 25, (644), *bicruciatu* f. 26, *octomaculatus* f. 27, (645), *scopulatus* f. 28, *plagiaticollis* f. 29, (646), *alutaceus* f. 30, *formosus* f. 31, (647), *inelegans* pl. xxxii f. 1 (648), *conspureatus* f. 2, *nigrocristatus* f. 3, (649), *lacteicollis* f. 4 (650), *oculeus* f. 5, *ruralis*, (651), *dorsuarius* f. 6, *ferox* f. 7, (652), *cinctipes* f. 9, (653), *bivittatus* f. 10 (654), *alboscutellatus* f. 11, *scutatus* f. 12, (655), *hirtimanus* f. 13, *fulvicollis* f. 14, (656), *bipupillatus* f. 15, *rugipes* f. 16, (657), *patruelis*, *coriarius* f. 17, (658), *seticollis*, *ignobilis* f. 18, (659), *granulosus* f. 19, *paleatus* f. 20, (660), *melancholicus*, *infuscatus*, *fraterculus* f. 21, (661), *commixtus* f. 22, *tenebrosus* f. 23, (662), *cineurus* f. 24, *albopunctatus* f. 25, (663), *biguttatus* f. 26, *bimaculatus* f. 27, (664), *tortuosus* f. 28, *singularis* f. 29, (665), *insolitus* f. 30 (666), *quadriplagiatus* f. 31, *carinifer* f. 32, (667), *bifeneistratus* pl. xxxiii f. 1 (668), *collinus* f. 2, *divexus* f. 3, (669), *caliginosus* f. 4, *oetonotatus* f. 5, (670), *cranesceus* f. 6, *eruptus* figs. 8 and 9, (671), *macer* f. 10, *sinuatis* f. 11, (672), *medioximus* f. 12, *fucatus* f. 14, *intricatus* f. 15, (674), *cancellatus* f. 16, (675), *degressus* f. 17, *bioculatus* f. 18, (676), *stigmatophorus* f. 19, *distigma*, (677), *diophthalmus* f. 20, *leucostigma*, *leucaspis*, (678), *silaceus* f. 22 (679), *bisinuatus* f. 23, *duplaris*, (680), *suturalis* f. 24 (681), *subcaudatus* f. 25, *guttatus*, (682), *nigroplagiatus* f. 26 (683), *uncipes* f. 27, *simplex*, (684), *opaciventr*, *disjunctus*, *quadrituberculatus* f. 29, (685), *senticosus*, *contaminatus* f. 30, (686), *enodis* f. 31, *tectus* f. 32, (687), *flohri*, *phaleratus* pl. xxxiv f. 1, (688), *undulatus* f. 2, *decorus* f. 3, (689), *collabismoides* f. 4, *erraticus* f. 5, (690), *anthonomoides* f. 6, *fulvofasciatus*, (691), *sedulus* f. 7, *interlitus* f. 8,

(692), *unipunctatus* f. 9, *abjectus* f. 10, (693), *mesomelas* f. 11, *conspicillatus* f. 12, (694), *murinus* f. 13, *propinquus* f. 14, (695), *sexnotatus* f. 15, *quadrisignatus* f. 16, (696), *concentricus* f. 17 (697), *discedens* f. 18, *scutulatus* f. 19, (698), *pictipes* f. 20, *decoratus*, (699), *erubescens* f. 21, *honestus* f. 22, (700), *rubicundus* f. 23, *iniquus* f. 24, (701), *festivus* f. 25 (702), *disciger* f. 26, *scutiger* f. 27, *melanophthalmus* f. 28, (703), *echinatus* (704), *furrus*, *porcatus* pl. xxv f. 1, (705), *humilis*, *strigatus* f. 2, (706), *palescens*, *pallidisetis* pl. xxxv f. 3, (707), *scepticus* f. 4, *insitivus* f. 5, (708), *nigroeinctus* f. 6, *subcylindricus* f. 7, (709), all from Central America, CHAMPION Biol. Centr.-Amer. Col. 4 pt. 4, **spp. n.**

Cyclobarus alternevittatus Algeria, DESBROCHERS (6) Frelon 14, **sp. n.**—*C. metalleseens* var. n. *longipilis*, Pio (41) Echange 22.

Cyclomaurus demaisonii Asia Minor, DESBROCHERS (7) Frelon 14, **sp. n.**

Cyclomias ptochoides Adana, PIC (66) Echange 22, **sp. n.**

Cyclopterus desbrochersi Valencia, REITTER (377) Madrid Bol. Soc. esp. Hist. nat. 6, **sp. n.**

Cylindrocaptus ganglbaueri Hell. (as *Paratimorus*) pl. iii f. 4 (37), *adpersus* Lec. (as *Copturus*) f. 12 (40), CHAMPION Biol. Centr.-Amer. Col. 4 pt. 5.—*C. triangulifer* pl. iii f. 5, *biradiatus* f. 6, (37), *bicaudatus* f. 7, *tetralobus* f. 8, (38), *armatus* f. 9, *imbricatus* f. 10, (39), *albonotatus* f. 11 (40), *bifasciatus* f. 13, *elongatus* f. 14, *scaphiformis* f. 15, (41), Central America, CHAMPION T.c., **spp. n.**

Cyphicerus; Artübersicht, REITTER Brunn Verh. Natf. Ver. 44 (253).—*C. bohemanii* **nom. n.** für *Myllocerus brevicollis* Boh., Id. T.c. (254).

Cyrtolepis (Aigelius) diecki Algeria, DESBROCHERS (5) Frelon 14, **sp. n.**—*C. (Aigelius) obscuricolor* Algérie, PIC (41) Echange 22, **sp. n.**

Cyrtotrachelus sp., natural history, BANKS (161-163) pl. xi Philipp. J. Sci. 1.

Cyttalia apicalis (80), *longirostris*, *piceosetosa*, *oleariae*, (81), Australia or Tasmania LEA Adelaide S. Aust. Trans. R. Soc. 30, **spp. n.**

Desbrochersella **gen. n.** for part of *Mylacus* (209), *baetica* Schauf. = (*rhinophorus* Seidl.) (210), REITTER Brunn Verh. Natf. Ver. 44.

Diaporesis distincta pl. xxx f. 11 (614), CHAMPION Biol. Centr.-Amer. Col. 4 pt. 4.

Dichotrachelus doderoi, Alpe maritime, SOLARI (94) Genova Ann. Mus. 42, **sp. n.**—*D. ragusae* **sp. n.** Sicilia, SOLARI Natural sicil. 18 (246-247).

Dionychus parallelogrammus var. n. *alternans*, DESBROCHERS (371) Bruxelles Ann. Soc. ent. Belgique 50.

Dynamis (Rhynchodynamis subgen. n.) filirostris **sp. n.** S. America, HELLER (49) Stettiner ent. Ztg. 67.

Dysmachus boriei Colombia, DESBROCHERS (371) Bruxelles Ann. Soc. ent. Belgique 50, **sp. n.**

Echinoenemus bisignatus **sp. n.** Transvaal, HARTMANN (77) D. ent. Zs. Berlin 1906.

Ectomastes **gen. n.** near *Cholus*, *oxyrhynchoides* **sp. n.** (hab. not given), DESBROCHERS (367) Bruxelles Ann. Soc. ent. Belgique 50.

Elytrodon barbarus Tangier, DESBROCHERS (1) Frelon 14, **sp. n.**

Eremotes meridionalis **sp. n.** Transvaal, HARTMANN (84) D. ent. Zs. Berlin 1906.

Erethistes rhomboides Costa Rica, CHAMPION (727) Biol. Centr.-Amer. Col. 4 pt. 4, **sp. n.**

Eulechriops septemnotatus pl. vii f. 8, *ochraceus* f. 9 (111), *squamulatus* f. 10, *nigrolineatus* f. 11, (112), *boops* f. 12, *melas* f. 13, (113), *lugubris* f. 14, *melancholicus* f. 15, *brevipes* f. 16, (114), *tuberculifer* f. 17, *flavitaris* f. 18, (115), *albofasciatus* f. 19, *ornatus* f. 20, *muticus* f. 21, (116), *perpusillus*, *seriatus* f. 30, (117), *longipennis* f. 22, *elongatus* f. 23, (118), *einerascens*, *cylindricollis* f. 24, *scutulatus* f. 25, (119), *sexnotatus* f. 26, *albo-lineatus* f. 27, (120), *ductilis* f. 28, *pygmaeus*, (121), *nitidus* f. 29, *coruscus*, *laevirostris* pl. viii f. 1 (122) *leucopilus* pl. vii f. 31, *plagiatus* f. 32, (123), *maculicollis* f. 33, *pusillus* pl. viii f. 2, (124), *conicicollis* f. 3, *sibinioides*, *tenuirostris*, (125), *filirostris* f. 4, *angusticollis* f. 5, (126), **spp. n.**

Central America, CHAMPION Op. cit. pt. 5.

Euops puncticollis sp. n. Japan (92), SCHILSKY in Küster and Kraatz Käfer Europas 42.

Euseclus chinensis (89), *gibbicollis* (90), spp. n., China, SCHILSKY T.c.

Eusomomorphus subgen. n. vide *Eusomus*.

Eusomus (*Eusomomorphus* subgen. n., *oligops* Asia minor, DANIEL (281) Wien Ann. Hofmus. 20, sp. n.

Eutinobothrus pilosellus pl. xxix f. 25, CHAMPION (604) Biol. Centr.-Amer. Col. 4 pt. 4.

Euzurus gen. n. near *Zurus*, *ornativentris* sp. n. Panama pl. iii f. 21, CHAMPION (45) T.c. pt. 5.

Gasterocercus propugnator pl. xxxi f. 5 (630), CHAMPION T.c. pt. 4.

Gymnetron fuentei Spain, PIC (12) Echange 22, sp. n.—*G. nigronotatum* Algérie, PIC (27) T.c., sp. n.—*G. moroderi* Valencia, REITTER (379) Madrid Bol. Soc. esp. Hist. nat. 6, sp. n.

Gymnobaris gen. n. near *Baris*, *politus* sp. n. Queensland, LEA (96) Adelaide S. Aust. Trans. R. Soc. 30.

Graphonotus leporinus pl. xxx f. 2 (608), *bituberculatus* f. 3 (609), *biolleyi* f. 4, *maculicollis* f. 5, 610), *albescens* f. 6, *cinctipennis* f. 7, (611), *varisquamis* f. 8, *quadrifasciatus* f. 9, (612), *lituratus* f. 10, *defectus*, (613), Central America, CHAMPION Biol. Centr.-Amer. Col. 4 pt. 4, spp. n.

Grypidiopsis? *asperatus* Guatemala pl. xxxv f. 23 (721), CHAMPION T.c., sp. n.

Haptomerus pentheri Asia Minor, GANGLBAUER (281) Wien Ann. Hofmus. 20, sp. n.—*H. siculus*, AMORE Natural. sicil. 18 (193–194).

Heilipus cylindricollis (10), *pseudanchoralis* (9), Peru spp. n., HELLER Stettiner ent. Ztg. 67.

Helleriella gen. n. *Zygopina* (32), *longicollis* sp. n. Mexico (33) pl. ii f. 28, CHAMPION Biol. Centr.-Amer. Col. 4 pt. 5.

Henschia subgen. n. von *Argoptochus*, REITTER Brünn Verh. Natf. Ver. 44 (227).

Herpes porcellus, early stages, BOURGEOIS (94) Paris Bull. Soc. ent. 1906.

Hilipinus latipennis pl. xxxv f. 20, *granosus* f. 21, CHAMPION (718) Biol. Centr.-Amer. Col. 4 pt. 4, spp. n.

Hilipus rufocinctus pl. xxxv f. 16 (715), *securifer* (= *securiger* Ch. olim), *spinipennis* f. 17, (716), *stigmatosus* f. 18, *terebrans* f. 19, (717), Central America, CHAMPION T.c., spp. n.

Himatinum nom. n. = *Himantium* Woll, COCKERELL (243), Ent. News, 17.

Hipporhinus nasicornis sp. n. Transvaal, HARTMANN (72) D. ent. Zs. Berlin 1906.

Hoplocopturus leptopus Hell. pl. iv f. 15 (59), CHAMPION Biol. Centr.-Amer. Col. 4 pt. 5.—*H. jareti* pl. iv f. 3 (53), *nigripes* f. 4, *quincuvittatus* f. 5, (54), *nubilus* f. 6, *sulphureus* f. 7, (55), *spinipes* f. 8, *costatipennis* f. 9, (56), *ochreicollis* f. 10, *basalis* f. 11, (57), *elegans* f. 12, *scintillans* f. 13, *mariae* f. 14, (58), *densus* f. 15, *varipes* f. 17, (59), Central America, CHAMPION T.c., spp. n.

Hylobius gebleri Boh. metamorphosis (Japanese), NITOE Konch. Sek., Gifu 10, 1906, (275–277).

Hyperini; Druckfehlerverzeichnis zu Petri's Monographie, HEYDEN Entomol. Ztg. Wien 25 (137–138).

Hypoglyptus; PIC Echange 22 (58–59, 67–69).

Hypoplaius pectoralis Desbr. (32), pl. ii f. 27, CHAMPION Biol. Centr.-Amer. Col. 4 pt. 5.

Huamboica gen. n. *Aphiorhamphus caricollis* Kirsch, HELLER (28) Stettiner ent. Ztg. 67.

Ipsichora mesosternalis (97), *desiderabilis*, *macleayi*, (98), *duplicata* (99), Australia, LEA Adelaide S. Aust. Trans. R. Soc. 30, spp. n.

Isotrachelus Faust 1896 = (*Microcleogonus* Ch. 1905), CHAMPION (117) Biol. Centr.-Amer. Col. 4 pt. 5.

Isus gen. n. *Cryptorhynchides*, *m-nigrum* sp. n. Guatemala pl. xxxi f. 4, CHAMPION (631) Op. cit. pt. 4.

Lachnaeus Sch. (= *Stolatus* Muls.), BEDEL (92) Paris Bull. Soc. ent. 1906.

Lagenolobus; Beschreibung, REITTER Brünn Verh. Natf. Ver. 44 (241).

Lalagetes hispidus (70), *signatus* (71), **spp. n.**, Transvaal, HARTMANN D. ent. Zs. Berlin 1906.

Larides **gen. n.** *Zygopina* (34), *cavifrons* **sp. n.** Guatemala pl. iii f. 3 (35), CHAMPION Biol. Centr.-Amer. 4 pt. 5.

Larinus *frater* (75), *peregrinus* (76), **spp. n.**, Transvaal, HARTMANN D. ent. Zs. Berlin 1906.

Leclriops copturoides pl. vi f. 13, *oblongulus* f. 14, (92), *albisquamis* f. 15, *canescens* f. 16, (93), *squamirostris* f. 17, *exseulptus*, (94), *amplipennis* f. 18, *alboquittatus* f. 19, (95), *rufomaculatus* f. 20, *rugicollis*, *vicinus*, (96), *nitidicollis* f. 21, *alboraviegatus* f. 22, (97), *excavatus* f. 23, *maculiceps* f. 24, *coarctatus* f. 25, (99), *centrosignatus*, *parilis*, (100), *ochreoguttatus* f. 27, *extritus*, (101), *disparilis*, *quadripunctatus* f. 28, (102), *nitidiusculus* (103), *sticticus* f. 29, *bicolor* f. 30, (104), *analisis* f. 31 (105), *infusus* (106) pl. vii f. 1, *festivus* f. 2, (107), *alboterminatus* f. 4, *porcatus* f. 5, (108), *durangoanus* f. 6, *flavofasciatus* f. 7, (109), **spp. n.**, Centr. America; *L. restitus* Boh. (99) pl. vi f. 26, *auritus* Hell. (106) f. 32, *paroticus* Pasc. (107) pl. vii f. 3, CHAMPION Biol. Centr. Amer. Col. 4 pt. 5.

Leptops; revision and table (313-354), *parricornis* (333), *cacozelus*, *hercules*, (334), *elongatus* (335), *amplipennis* (336), *frenchi* (337), *rudis*, *nirens*, (338), *conceviceps* (339), *cincrescens* (340), *orthodoxus* (341), *fratereculus* (342), *multinodosus*, *squamosus*, (343), *rostralis* (344), *T-squameus* (346), *gladiator*, *laticollis*, (347), *fasciculatus* (348), *globoicollis* (349), *interruptus* (350), *regularis*, *nigropunctatus*, (351), *hirsutus* (352), *phymatodis*, *crassirostris*, (353), **spp. n.**, Australia, LEA Bruxelles Ann. Soc. ent. Belgique 50.

Liparus; revisione delle italiane, GRANOLI Rivista Col. ital. 4 (241-256).

Lissoderes **gen. n.** *Zygopina* (47), *subnudus* **sp. n.** Panama pl. iii f. 24 (48), CHAMPION Biol. Centr.-Amer. Col. 4 pt. 5.

Lixus; of Germany, SCHENKLING Insektenbörse 23 (34-35). Bemerkung dazu von Ernst von Dombrowski T.c. (60). — *L. zaitzevi*, *fasciatus*, **spp. n.** Russisch Asien, PETRI Rev. russ. ent. 6 (64-66). — *L. iridis*, GIREAUDEAU

Feuille jeunes natural. 36 (167). — *L. caroli* **sp. n.** Transvaal, HARTMANN (76) D. ent. Zs. Berlin 1906.

Loboderinus **gen. n.** *Barini* (436), *claratus* (437), *basalis* (438), **spp. n.** Brasile, SOLARI Genova Ann. Mus. 42, **spp. n.**

Macroleclriops **gen. n.** (126), *spini-coxis* **sp. n.** (127) pl. viii f. 6 Mexico, CHAMPION Biol. Centr.-Amer. Col. 4 pt. 5.

Macroptatus **gen. n.** *Centrinides* (46), *championi* **sp. n.** Costa Rica (48), HELLER Stettiner ent. Ztg. 67.

Macrotarrhus **nom. n.** for *Macrotarsus* Sch., BEDEL (93) Paris Bull. Soc. ent. 1906.

Madarellus gibbicollis Brasile (423), *ruficollis* Peru, *caseyi* Nicaragua (424), *fausti* Peru (425), *rufescens*, *maculatus*, Brasile, *mexicanus* Sierra Durango, (426), *albofasciatus* Amazzoni (427), *albonotatus* Brasile (428), SOLARI Genova Ann. Mus. 42, **spp. n.**

Magdalinus; life histories, NAMBEU (42-45) Naturaliste 1906.

Mantias **gen. n.** *Cryptorhynchides*, *gracilitarsis* **sp. n.** pl. xxix f. 28 Panama, CHAMPION (606) Biol. Centr. Amer. Col. 4 pt. 4.

Mecaspis cf. *Aphaenicus*.

Mecinus hesteticus Sicilia, VITALE (134) Natural. Sicil. 18, **sp. n.**

Megarhinus longirostris **sp. n.** Transvaal, HARTMANN (80) D. ent. Zs. Berlin 1906.

Meira; synopsis des français, *stierlini* **nom. n.** pro *crassicornis* Seidl., SAINTE-CLAIRE DEVILLE Abeille 30 (258-260). — *M. gracilenta* Algeria (16), *minuscule* (17), *ampliocollis* (18), Tunis, *fallens* (19) Algeria, **spp. n.**, *validicornis* **nom. n.** for *crassicornis* Desb. (20), DESBROCHERS Frelon 14.

Miarus mayeti, *degorsi*, (171), **spp. n.**, *campanulae* var. *ursinus* n. var. (172), ABEILLE Paris Bull. Soc. ent. 1906.

Microzurus rhombus Hell. pl. vi f. 9; *M. trinotatus* f. 10, *edentatus* f. 11, **spp. n.**, Panama, CHAMPION (89) Biol. Centr.-Amer. Col. 4 pt. 5.

Microzygops **gen. n.** *Zygopina*, *nigrofasciata* **sp. n.** Panama pl. iii f. 22, CHAMPION (46) T.c.

Misophrice squamiventris (74), *gloriosa*, *apionoides*, (75), *inflata* (76), *nigripes*, *amplicollis*, (77), *vicina* (78), Australia or Tasmania, LEA Adelaide S. Aust. Trans. R. Soc. **30**, **spp. n.**

Mnemynurus caloderes, Hell. pl. iii f. 27 (50), CHAMPION Biol. Centr.-Amer. Col. **4** pt. 5.—*M. ignifer* pl. iii f. 28 (50), *phoenicoderes* f. 29, *erythroderes* f. 30 (51), *poeiloderes* pl. iv f. 1, *longispinis* f. 2 (52), Central America, CHAMPION T.c., **spp. n.**

Mytides imberbis (100), *balaninirostris* (101), Queensland, LEA Adelaide S. Aust. Trans. R. Soc. **30**, **spp. n.**

Myllacus Ptochus; und verwandte; Bestimmungstabelle, REITTER Brunn. Verh. Natf. Ver. **44** (208–256). — *M. crinitus* Daniel (215) **sp. n.**, *branesiki* Süddalmatien (218), *cupripubens* (222) Hocksyrien, *desbrochersi* (222) Algier, *formaneki* Corfu (218), *helleri* Attica (220), *sanderi* Olymp. (217), *villosus* Kleinasien (217), **spp. n.**, REITTER T.c.

Myllocerus; Artbüersicht; *obockianus* **sp. n.** (244), *pici* **sp. n.** Merv (250); REITTER T.c.

Myllocerops **gen. n.** für *psitacinus* Redt., REITTER T.c. (253).

Nanophyes durieui, gall, Marocco, HOWARD (32–38) Marcellia **5**.—*N. morulus* (135), *metallicus* (136), Sicilia, VITALE Natural. sicil. **18**, **spp. n.**

Neodesmosomus **gen. n.** near *Cholus*, *helleri* **sp. n.** Brazil, DESBROCHERS (370) Bruxelles Ann. Soc. ent. Belgique **50**.

Nertochoilus **gen. n.** near *Erethistes* (24), *fascialus* **sp. n.** Espirito Santo (25) HELLER Stettiner ent. Ztg. **67**.

Noctivius **subg. n.** of *Cleonus* for *seynis* Germ. etc., DESBROCHERS (70) Frelon **14**.

Notaris wyomingensis **sp. n.** N. America, CHITTENDEN 115) New York J. Ent. Soc. **14**.

Notophus **gen. n.** near *Cholus*, *subincostatus* **sp. n.** Cayenne, DESBROCHERS (365) Bruxelles Ann. Soc. ent. Belgique **50**.

Oarius **gen. n.** *Phyllobiides*, *griseascens* **sp. n.** Asia minor, DESBROCHERS (20) Frelon **14**.

Ocladius caroli **sp. n.** Transvaal, HARTMANN (82) D. ent. Zs. Berlin **1906**.

Odontochoilus **gen. n.**, *flaviventris* **sp. n.** (hab. not given), DESBROCHERS (367) Bruxelles Ann. Soc. ent. Belgique **50**.

Omileus epicaeroides, SANDERSON (210) Ent. News **17**.

Onychobaris punctatissima Mexico (420), *nicaraguensis* Managua, *dentibia* Amazoni, (421), *armipes* Goyaz (422), SOLARI Genova Ann. Mus. **42**, **spp. n.**

Orchestes quercicola Italia, FIORI (264) Riv. Col. ital. **4**, **sp. n.**

Orthochaetes tissoni France **sp. n.**, (23); the species of France (24); DESBROCHERS Frelon **14**, also (101) Nîmes, Bull. Soc. étud. **33**.

Otiorrhynchus idonis Albanien, *sturanyi* Montenegro, (1673), **spp. n.**, APFELBECK Wien SitzBer. Ak. Wiss. **115** Abt. 1.—*O. cribrirostris* Abruzzo, LEONI (108) Riv. Col. ital. **4**, **sp. n.**—*O. caesareus* Asia minor, DANIEL (281) Wien Ann. Hofmus. **20**, **sp. n.**—*O. pici* (87), *scobinatus* (88), Algeria, SOLARI Genova Ann. Mus. **42**, **spp. n.**—*O. sirentensis* Monte Sirenti, AMORE Riv. Col. ital. **4** (117–119), **sp. n.**—*O. (Arammichnus) syracusanus* **sp. n.** Sicilia, FIORI Natural. sicil. **18** (204–206).—*O. (Tournieria) antarcticus*, STIERLIN (45) pl. i f. 8. Résult. Belgica, Zoologie.

Paracyclomaurus seriatellus Algeria, DESBROCHERS (7) Frelon **14**, **sp. n.**

Parahornia **nom. n.** for *Wollastoniella* [vide infra] COCKERELL (349) Ent. News **17**.

Paramnemyne decemcostata Panama, pl. iii f. 25 (48), *pulchella* Guatemala, f. 25 (49), CHAMPION Biol. Centr.-Amer. Col. **4** pt. 5.

Paraplinthus shermani **sp. n.** North Carolina, FISKE (31) Washington Proc. Ent. Soc. **8**.

Paratrachyplocus reichei Seidl. (as *Trachyplocus*) = (*variegatus* Desbr.), SOLARI (94) Genova Ann. Mus. **42**.

Peltophorus polymitus Boh. pl. ii f. 8 (20), *jordani* Hell. f. 10 (21); CHAMPION Biol. Centr.-Amer. Col. **4** pt. 5.

Peridiraecus punctatus, *insolitus*, Brazil, DESBROCHERS (366) Bruxelles Ann. Soc. ent. Belgique **50**, **spp. n.**

Periegas humeralis Buchara, PIC (34) Echange **22**, **sp. n.**

Peritelus quadraticollis Spain, DESBROCHERS (22) Frelon **14**, **sp. n.**

Perperus malevolens Tasmania, LEA (71) Adelaide S. Aust. Trans. R. Soc. **30**, **sp. n.**

Peucron **gen. n.**, *albo guttatus* **sp. n.** Mexico pl. xxx f. 22 (= *Acalles albo guttatus* Chevr. i. l.); CHAMPION (619) Biol. Centr.-Amer. Col. **4** pt. 4.

Place **gen. n.** near *Heterobothrus* (614), *pilimanus* pl. xxx f. 13, *egena* f. 14, *scutellaris* f. 15, (615), *polochiac* f. 16, *dentipes*, (616), *duplex*, *carinirostris* f. 17, *binodosa* f. 18, (617), *cinctuta* f. 19, *leucogramma* f. 20, (618), *striatipennis* f. 21, (619), Central America, **spp. n.**, CHAMPION T.c.

Phalias **gen. n.** *Cryptorhynchides* (604), *latierus* **sp. n.** Panama pl. xxix f. 26 (605), CHAMPION T.c.

Phileas **gen. n.** near *Timorus*, *granulatus* **sp. n.** Mexico pl. iii f. 2, (34), CHAMPION Op. cit. pt. 5.

Philenis **gen. n.** near *Copturus*, *flavipes* pl. iii f. 18, (43), *flavofemorata* f. 19 (44), **spp. n.**, Panama, CHAMPION T.c.

Philides **gen. n.** *Zygopina*, *anthonomoides* **sp. n.** Panama pl. viii f. 10, CHAMPION (122) T.c.

Philinna **gen. n.** (128), *bicristata* **sp. n.** Guatemala (129) pl. viii f. 9, CHAMPION T.c.

Philonis **gen. n.** near *Eubulus*, *inermis* **sp. n.** pl. xxix f. 24 Central America, CHAMPION (603) Op. cit. pt. 4.

Phyllobius kleckii **sp. n.** Rumänien; *glauens* Scop. var. *n. fuscifumosa* Sibirien; REITTER Entomol. Ztg. Wien **25** (253).

Phytonomus viridis Valencia, REITTER (378) Madrid Bol. Soc. esp. Hist. nat. **6**, **sp. n.**

Piazelechirops **gen. n.** *Zygopilarum* (44), *bicristatus* **sp. n.** Peru (45) pl. i f. 7, HELLER Stettiner ent. Ztg. **67**.

Piazurus bufo Peru (42), *delicatus* Amazons (37), *deplanatus* Peru (36), *spretus* Nicaragua, *sulphuriventris* Costa Rica, (39), *P. (Pseudopiazurus subgen. n.) centralamericus* Costa Rica (40), *P. (Pseudopiazurus subgen. n.) rana* Costa Rica (41), **spp. n.**, HELLER

T.c.—*P. caprimulgus* Oliv. pl. i figs. 19–21 (12), *spretus* Hell., f. 22 (13), *succurus* Boh. f. 24 (14), *maculipes* Gyll. figs. 25–28, varr. and synonymy (15), *sulphuriventris* Heller f. 30 (16), *melanostictus* Boh. pl. ii f. 2 (17), *alternans* Kirsch f. 3, *condyliatus* Boh. f. 4, *rana* Heller f. 5, (18), *centrali-americanus* Heller f. 7 (19); *P. trifoveatus* pl. i f. 17, *plagiatus* f. 18, (11), *helleri* f. 23 (13), *pallidicinctus* f. 20 (16), *stigmaticus* f. 31 (17), *quadratus* pl. ii f. 6 (19), Central America, **spp. n.**, CHAMPION Biol. Centr.-Amer. Col. **4** pt. 5.—*P. ephippiatus* Panama pl. viii f. 11 **sp. n.** (130), CHAMPION Biol. Centr. Amer. Col. **4** pt. 5.—*P. floridanus* **sp. n.** Florida, FALL (61) Philadelphia Trans. Amer. Ent. Soc. **32**.

Plinthus angustus **sp. n.** Kaukasus, REITTER D. ent. Zs. **1906** (450).

Poecilogaster brevis Hell. pl. iii f. 20 (45) CHAMPION Biol. Centr.-Amer. Col. **4** pt. 5.

Polyderceus **gen. n.** for *Polyderces luctuosus* Chev., HELLER (28) Stettiner ent. Ztg. **67**.

Pseudobaris callosipennis Costa Rica (431), *stigmatica* (432), *gigantea*, Sierra Durango, *cribrella*, (433), *ocellata* Costa Rica, *parallelipennis* Sierra Durango, (434), *cribripennis* Nicaragua (435), *costaricensis* Costa Rica (436), SOLARI Genova Ann. Mus. **42**, **spp. n.**

Pseudocholus **gen. n.**, *biplagiatus* **sp. n.** Costa Rica, DESBROCHERS (366) Bruxelles Ann. Soc. ent. Belgique **50**.

Pseudolechirops **gen. n.**, *megacephalus* **sp. n.** Guatemala pl. vi f. 12, CHAMPION (90) Biol. Centr.-Amer. Col. **4** pt. 5.

Pseudopiazurus **subg. n.** of *Piazurus* for *P. obesus* Boh., etc., HELLER (32) Stettiner ent. Ztg. **67**.

Pseudopinarus **subg. n.** of *Piazurus* (34), for *obesus* and *defectus* Boh., and *centraliamericanus* **sp. n.** Costa Rica (40), HELLER Stettin ent. Ztg. **67**.

Psomus caseyi (127), *quadrinotalus* pl. viii f. 7, *violaceus* f. 8, (128), Central America, CHAMPION Biol. Centr.-Amer. Col. **4** pt. 5, **sp. n.**

Ptinopsis **gen. n.** near *Oopterinus* (723), *floccosus* **sp. n.** Guatemala pl. xxxv f. 25 (724), CHAMPION Op. cit. pt. 4.

Ptochella **gen. n.** für *latirostris* Faust, REITTER Brönn Verh. Natf. Ver. **44** (240).

Ptochus koltzei Tibet (239), *nigropilosus* Turkestan (230), *obliquesignatus* Tibet, *potanini* Nordchina, (232), *squamosus* Araxesthal (235), **spp. n.**, REITTER T.c.

Ptous **gen. n.** *Cryptorhynchides* (632), *otidocephalinus* **sp. n.** Nicaragua pl. xxxi f. 7 (633), CHAMPION Biol. Centr.-Amer. Col. **4** pt. 4.

Rhadinocerus dispar **sp. n.** Transvaal, HARTMANN (83) D. ent. Zs. Berlin **1906**.

Rhigopsidius **gen. n.** *Rhytinorrhinidae* (7), *tucumanus* **sp. n.** Argentina (8) pl. i f. 3, HELLER, Stettiner ent. Ztg. **67**.

Rhynchites cylindricollis (82), *flavipes* (80), *gracilicornis* (81), *rostri* (79), **spp. n.**, Japan, SCHILSKY in Küster and Kraatz Käfer Europas **42**, *R. sciatopilosus*, Kashmir **sp. n.**, Id. op. cit. **43**, (26).

Rhynchodynamis **subgen. n.** cf. *Dynamis*.

Rhynchophorus ferrugineus, natural history, BANKS (154–158) pl. vi–viii Philipp J. Sci. **1**.

Rhypodillus **nom. n.** for *Rhyppodes* Horn, COCKERELL (243) Ent. News **17**.

Salbachia **gen. n.** für *Corigetis dorsalis*, REITTER Brönn Verh. Natf. Ver. **44** (241).

Seedasmus **gen. n.** *Cryptorhynchides*, *muricatus* **sp. n.** Panama pl. xxix f. 27, (605), CHAMPION Biol. Centr.-Amer. Col. **4** pt. 4.

Sciaphilus pruinosis Desbr., Umänderung in *Desbrochersella pennata*, REITTER Brönn Verh. Natf. Ver. **44** (211).—*S. sulcirostris* Chev., Zugehörigkeit zu *Brachysomus*, FORMANEK Entomol. Ztg. Wien **25** (38).—*S. psittacinus* è sinonimia di *abbreviatus*, AMORE Natural sicil. **18** (193–194).

Sciobius; monograph, *cultratus* (243) pl. xviii f. 1, *cinereus* (244) f. 3, *obsus* (245) f. 2, *cognatus* (247) f. 6, *opalinus* (248) f. 4, *oneili* (252) f. 5, *planipennis* (253) f. 7, *tenuicornis* (255) f. 9, *barkeri* (257) f. 8, *spatulatus* (262) f. 10, *peringueyi* (263) f. 11, *viduus* pl. xix f. 1, *pondo* f. 3, (264), *angustus* (267) f. 2, *panzanus* f. 4, *schonlandi* f. 6,

(268), *viridis* (269) f. 7, *nanus* f. 9, *prasinus* f. 5, (270), *vittatus* (271) f. 8, *arrowi* f. 10, *horni* f. 11, (272), **spp. n.**, S. Africa, MARSHALL London Proc. Zool. Soc. 1906.

Sclerosomus atomarius, *obliteratus*, Brazil, DESBROCHERS (368) Bruxelles Ann. Soc. ent. Belgique **50**, **spp. n.**

Semnorhynchus planirostris pl. xxxi f. 1 (628), *tristis* f. 2, *fulvopictus* f. 3, (629), *fulvifrons* (630), Central America, CHAMPION Biol. Centr.-Amer. Col. **4** pt. 4, **spp. n.**

Sharpia imbricata Bagdad, DESBROCHERS (10) Frelon **14**, **sp. n.**

Solenobaris **gen. n.**, *decipiens*, (102), *edentata* (103), **spp. n.**, Queensland, LEA Adelaide S. Aust. Trans. R. Soc. **30**.

Spartecerus trisulcatus **sp. n.** Transvaal, HARTMANN (71) D. ent. Zs. Berlin **1906**.

Spermophagus japonicus **sp. n.** Tokoi, (94), SCHILSKY in Küster and Kraatz Käfer Europas **42**.

Sphenophorus eliconensis Sicilia, VITALE (133) Natural. Sicil. **18**, **sp. n.**

Sphenus **gen. n.** for *Homalonotus validus*, *perplexus* **sp. n.** Cayenne, DESBROCHERS (368) Bruxelles Ann. Soc. ent. Belgique **50**.

Strophomorphus nigrinus Asia Minor, DESBROCHERS (12) Frelon **14**, **sp. n.**

Strophosomus concinnus **sp. n.** Transvaal, HARTMANN (68) D. ent. Zs. Berlin **1906**.

Sysciophthalmus **gen. n.** *Tanymecidarum* (5) *bruchii* **sp. n.** Argentina (6) pl. i figs. 1 and 2, HELLER Stettiner ent. Ztg. **67**.

Tachygonus laticrus pl. viii f. 12, *quinedentatus* f. 13, (132), *curvicerus* f. 14, *semirufus* f. 15, (133), *nigrocrisatus* f. 16 (134), *bifasciculatus* f. 18, *pectinisquamis* f. 19, (135), *caseyi* f. 21, *sinnaticrus* f. 22, (136), **n. spp.**, Central America, *fasciculosus* Boh. f. 17 (134), *rhombus* Casey fig. 20 (136), CHAMPION Biol. Centr.-Amer. Col. **4** pt. 5.

Thylacites humilis Sicilia, VITALE Natural. Sicil. **18**, **sp. n.**

Timorus suturalis Ros. pl. iii f. 1 (33), CHAMPION Biol. Centr.-Amer. Col. **4** pt. 5.

Titinia laeta and *ignaria* distinguished, BLACKBURN (323) Adelaide S. Aust. Trans. R. Soc. 30.

Trachalus gen. n. *Cryptorhynchides* (631), *micronychus* sp. n. Central America pl. xxxi f. 6 (632); CHAMPION, Biol. Centr.-Amer. Col. 4 pt. 4.

Trachyploeus cinereus (90), *proximus* (91), *brevicornis* (92), Tunisie, *apuanus* Etruria (93), SOLARI Genova Ann. Mus. 42, spp. n. — *T. proletarius* Sicilia, VITALE (131) Natural. sicil. 18, sp. n.

Trichodocerus; (713); *T. spinolae* pl. xxxv f. 13 (714); *T. brevilineatus* sp. n. Centr. America figs. 14 and 15 (714); CHAMPION Biol. Centr.-Amer. Col. 4 pt. 4.

Triglyphulus nom. n. = *Triglyphus* Lec., COCKERELL (243) Ent. News 17.

Troezone gen. n. *Cryptorhynchides* (606), *encaustus* sp. n. Panama pl. xxix f. 29 (607), CHAMPION Biol. Centr. Amer. Col. 4 pt. 4.

Tynnichus gen. n. *Cryptorhynchides* (712), *temicostatus* sp. n. Panama pl. xxxv f. 12 (713), CHAMPION T.c.

Tyrannion unipustulatus pl. xxx f. 12, *curtipennis* pl. xxix f. 19, *albosignatus* f. 20, (601), *brericulus* f. 21, *agnatus* f. 22, (602), *basalis* f. 23 (603), Central America, CHAMPION T.c., spp. n.

Ulosomus horribilis pl. xxxv f. 8 (710), *spinulosus* f. 9, *hispidus* f. 10, *hirsutulus*, (711), Central America; CHAMPION T.c., spp. n.

Wollastoniella nom. n. = *Wollastonia* Horn, COCKERELL (243) Ent. News 17.

Zurus sanguinicollis pl. vi f. 5, *coccinatus* f. 6, (87), *maculicollis* f. 7, (88), Central America, spp. n.; *Z. aurivillianus* Hell. (88) pl. vi f. 8; CHAMPION Biol. Centr.-Amer. Col. 4 pt. 5.

Zygops adustus sp. n. Arizona, FALL. (61) Philadelphia Pa. Trans. Amer. Ent. Soc. 32.—*Z. ritticollis* Desbr. pl. ii f. 12 (24), *mexicana* Boh. f. 15 (25), *histrion* Boh. f. 16 (26), *tridentata* Gyll. f. 22, *maculipes* Desbr. f. 23, (29), *sobrina* Gyll. f. 26 (31); *Z. rufitorquis* pl. ii f. 11 (23), *rufomaculata* f. 13, *erythropyga* f. 14, (24), *maculiventris* f. 17, (26), *quadridentata* f. 18, *amoenum* f. 19, (27), *dissecta* f. 20, *sellata* f. 21, (28), *catuleuca* f. 24, *trivittata*

f. 25, (30), Central America, spp. n.; CHAMPION Biol. Centr.-Amer. 4 pt. 5.

Zygopsella gen. n., *ruficauda* sp. n. pl. iii f. 16 Guatemala, CHAMPION (42) T.c.

The following Curculionidae have been previously recorded in the Zoological Record.

(*Alophus weberi* sp. n., Steiermark, PENECKE, Entomol. Ztg. Wien, 20, 1901, (11-21).—*Alophus hilfi* sp. n. Bosnien with *apfelbecki* Stierl. in litt. var. n., Herzegowina, REITTER Entomol. Ztg. Wien, 21, 1902, (1-9).)

(*Anepigraphocis* gen. n. for *A. basiventris* Lea, *A. basiventris*, Swan R., W. Australia, LEA, Sydney, N.S.W., Proc. Linn. Soc., 30, (246).)

(*Aonychus striatus*, *argus*, N. W. Australia, *pachypus*, Swan River, LEA, (253-258), spp. n., T.c.)

(*Apion leonhardi*, Herzegowina, REITTER, Entomol. Ztg. Wien, 22, 1903, (178), sp. n.—*Apion formosus* sp. n., Madagascar, BEGUIN-BILLECOCQ, Paris, Bul. soc. ent., 1905, (45).—*A. nitidirostra*, *madecassum*, *pullum*, *blatta*, *bellum*, *amborombense*, *androicum*, *beauchenei*, *ceratum*, *pluto*, *postscutatum*, *mauriti*, *erythraeum*, *Philippi*, *perrieri*, *unicum*, *setulosum*, *tessellatum*, *Rhinapion* n. subgen., *oblique-striatum*, *insigne*, *pauçillum*, *pseudapricans*, *Apiotherium* n. subg., *albonigrum*, *suturale*, *sternale*, *navicula*, *mitissimum*, *barbatum*, *puncticolle*, *tumefactum*, *tetrum*, *fastidiosum*, *exiguum* spp. n., BEGUIN-BILLECOCQ, Paris, Ann. soc. ent., 74.—*A. violaceum*, Nota biologica, STEFANI PEREZ, Naturalista sicil., Palermo, 17, (177-179).—*A. insulare*, *alboscamosum*, *formosus*, (*Aspidapion*) *madagascariense*, *inornatum*, *alluaudi*, *bourrieri*, *malgasicum*, *bicarinatum*, *denudatum*, *pamanzianum*, BEGUIN-BILLECOCQ, Paris, Bul. soc. ent., 1904, (34-57), spp. n.)

(*Bleptocis* gen. n. for *B. collaceratus*, LEA (247), *B. collaceratus*, N.S.W., sp. n. (248), LEA, Sydney, N.S.W. Proc. Linn. Soc. 30.)

(*Bradybatus nothops raulogeri*, BEDEL, Paris, Bul. soc. ent., 1905, sp. n.)

(*Cleonus superciliosus*, BEDEL, Op. cit. 1903, sp. n.—*C. saintpierrei*, Entwicke-

lungsgeschichte, REITTER, Entomol. Ztg., Wien, **22**, 1903, (235–236.).

(*Episodiocis* gen. n., (for *E. microderes* Lea) *E. microderes*, Clarence R., N.S.W., sp. n., LEA, Sydney, N.S.W., Proc. Linn. Soc., **30**, (244–245).)

(*Foucattia burghauseri* sp. n., Kroatien, REITTER, Entomol. Ztg., Wien, **24**, 1905, (247).)

(*Lixus coloratus* Alexandergebirge, Sibirien, sp. n., (194), *laufferi* nom. n. fur *lateralis* Brisout, (109), *furcatus longicollis*, Syrien, (48), *vibex scutellaris*, Centralasien, (104), *Lixus punctiventris laticollis*, Kaukasus, (160), *elongatus oblongus*, Altai, (161), *bardanae scutulatus*, Ungarn, (166), *bardanae paulmeyeri*, Centralasien, (166), *iridis tauricus*, (192), *iridis levantinus* (192), *iridis conformis*, Korsika, (192), *iridis caucasicus*, (192), *iridis brevicaudis* (192), *iridis balcanicus*, Serbien, (193), *iridis asiaticus*, Transkaspien, Persien, (193), *imitator eylandii*, Transkaspien, (195), varr. n., PETRI, Entomol. Ztg., Wien, **23**, 1904.)

(*Mecysolobus* gen. n., *lixoides*, Amurgebiet sp. n., (248), REITTER, Entomol. Ztg., Wien, **24**, 1905, (248).)

(*Metallites aquisextonus*, ABEILLE DE PERRIN, Paris, Bul. soc. ent., **1904**, (280–282), sp. n.)

(*Neomystocis* gen. n. (for *N. squamiventris*, Lea), *N. squamiventris* Queensland, (243), LEA, Sydney, N.S.W., Proc. Linn. Soc., **30**, (242).)

(*Otiorrhynchus claviger*, sp. n., Steiermark, PENECKE, Entomol. Ztg., Wien, **20**, 1901, (11–21).—*O. apfelbecki* and *stenorostris*, Verbreitung, PENECKE, Entomol. Ztg., Wien, **20**, 1901, (11–21).—*O. leonhardi*, Herzegowina, REITTER, Entomol. Ztg., Wien, **22**, 1903, (229), sp. n.—*O. caudatus* Rossi *laetificator* (*Otiorrhynchus*) *niveopictus bellicomus*, REITTER, Entomol. Ztg., Wien, **21**, 1902, (1–9).—*O.* subgen. *Limatogaster* Apfelb., Artübersicht, (213), (*Limatogaster*) *darius* (214), *lasioscelis* (215), Dalmatien, spp. n., (*Limatogaster*) *darius donabilis*, Südbosnien, (*Limatogaster*) *pachyscelis* Strl. *nyctelius*, Südkrain, varr. n., REITTER, Entomol. Ztg., Wien, **22**, 1903, (214–215).)

(*Pantorhytes granulatus, subcostatus*, Süd-Est Island, (Luisiaden), Woodlark

Insel, HELLER, Entomol. Ztg., Wien, **24**, 1905, (305–310), spp. n.)

(*Perichus gracilis*, Barron Falls, Queensland, LEA, Sydney, N.S.W., Proc. Linn. Soc., **30**, (241), sp. n.)

(*Plagiographus saintpierrei* Chevrl., Entwicklungsgeschichte, REITTER, Entomol. Ztg., Wien, **22**, 1903, (235–236).)

(*Piezotrachelus alluaudi* sp. n., Madagascar, BÉGUIN-BILLECOCQ, Paris, Bul. Soc. ent., **1903**, (285–286).)

(*Polydrusus* (*Metallites*) *impar* Goz. var. n. *uranicensis*, Bosnien, REITTER, Entomol. Ztg., Wien, **24**, 1905, (247).)

(*Rhinomias austriacus* and *forticornis*, Verbreitung, PENECKE, Entomol. Ztg., Wien, **20**, 1901, (11–21).)

(*Solariella* subgen. n. *Trogloorhynchus*, FLACH, Entomol. Ztg., Wien, **24**, 1905, (318–319).)

(*Stenopelmus rufimanus* Gyl. (*Degorsia champenoisi* Bed.), BEDEL, Paris, Bul. Soc. ent., **1904**, (23–24).)

(*Trogloorhynchus* (*Solariella*) *paganetti*, Kalabrien, FLACH, Entomol. Ztg., Wien, **24**, 1905, (318), sp. n.)

(*Vibertia* gen. n., BEDEL, Paris, Bul. Soc. ent., **1903**, (284–285).)

SCOLYTIDAE.

Leben der Borkenkäfer, NÜSSLIN Karlsruhe, Verh. natw. Ver. **19** (1905–1906) Abh. (47–64).

Generationsfrage der Borkenkäfer, KNOCHE Natw. Zs. Landw. Stuttgart **4** 1906 (265–273).

Schlusswort in der Polemik gegen E. Knoche, NÜSSLIN T.c. (341–344).

Verbreitung und Lebensweise einiger europäischer Borkenkäfer, EGGERS Natw. Zs. Landw. Stuttgart **4** 1906 (281–290).

Die Borkenkäfer Ungarns (ungarisch), CSIKI Rovart. L. Budapest **13** 1906 (47–53, 76–79, 154–156, 170–174, 187–188, 208–211).

Larval integumental structures, LEISEWITZ.

Cisurgus ragusae sp. n. Messina, REITTER Naturl. sicil. **18** (241).

Crypturgus mediterraneus Eich., BARBEY Natw. Zs. Landw. 4 (217-220).

Dendroctonus brevicornis, natural history, WEBB Washington D.C. Bull. U. S. Dep. Agric. Ent. 58 pt. 2.

Dryocoetes tonsus Guiana, HAGEDORN (412) Bul. Mus. Paris 1905, **sp. n.**

Hypoborus ficus, natural history, BARBEY Feuille jeunes natural Paris 36 (93-97).

Scolytus mali Bechst. = (*pruni* Ratz.), BEDEL (93) Paris Bul. soc. ent. 1906.

Thamnurgus semirufus **sp. n.** Anatolien, REITTER Entomol. Ztg. Wien 25 (36).

Tomicus cryptographus, sexes, natural history, MjöBERG (137-142) Uppsala Ent. Tidskr. 27. — *T. typographus*, HENNINGS Natw. Zs. Landw. St. 5 (75, 97-125); KOCH Nat. Zs. Landw. Stuttgart 4 (158-160); PAULY Natw. Zs. Landw. Stuttgart 4 (160-164). — *T. typographicus* in Herenwies und Pfullendorf im Jahre 1905, NÜSSLIN Nat. Zs. Landw. Stuttgart 4 1906 (4-22).

Xyleborus politus, *geayi*, (413), *productus*, *tumucensis*, *perversus*, (414), *solitarius* (415), Guiana, **spp. n.**, *rufithorax* var. *n. nigricollis* (413), HAGEDORN Bul. Mus. Paris 1905.

(*Xyleborus keuselti*, Ostsibirien, REITTER, Entomol. Ztg., Wien, 24, 1905, (250), **sp. n.**)

BRENTHIDAE.

Zemioses setosus **sp. n.** Neu-Guinea, SCHÖNFELDT Nova Guinea 5 Livr. 1 (35).

ANTHRIBIDAE.

Allandrus angulatus Panama (319) pl. xi f. 4, JORDAN Biol. Centr.-Amer. Col. 4 pt. 6, **sp. n.**

Anthrribus fasciatus Forst., Variabilität, VARENDORFF Entomol. Ztg. Wien 25 (212).

Aracoderes **gen. n.** near *Euparius* (275), *texanus* **sp. n.** Texas (276), SCHAEFFER Philadelphia Trans. Amer. Ent. Soc. 32.

Barridia **gen. n.**, *corticina* **sp. n.** pl. x f. 21 Guatemala, JORDAN (314) Biol. Centr.-Amer. Col. 4 pt. 6.

Brachytarsus ornatus (276), *riddelliae*, *nigromaculatus*, Arizona, *beyeri* Lower California, SCHAEFFER Philadelphia Trans. Amer. Ent. Soc. 32, **spp. n.** — *B. tessellatus* = (*fallax* Perr.), *areolatus* Boh. = (*pardalis* Woll.), BEDEL (93) Paris Bul. soc. ent. 1906.

Brevibarra **gen. n.** (312), *scotosagis* **sp. n.** Panama pl. x f. 20 (313), JORDAN Biol. Centr.-Amer. Col. 4 pt. 6.

Corrhecerus belti Nicaragua, JORDAN (354) T.c., **sp. n.**

Cratoparis; synonym of *Euparius*, JORDAN (345) T.c.

Cybosoma **gen. n.** near *Ormiscus*, *grande* **sp. n.** Guatemala pl. xiii f. 21, JORDAN (361) T.c.

Discotenes lutosus pl. x f. 12, *imitans* f. 13, (309), *cylindratus* f. 14, *picticollis* f. 15, (310), *affinis* f. 16 (311), Central America, JORDAN T.c., **spp. n.**

Domoptolis championi Panama pl. xi f. 18 (340), JORDAN T.c.

Eucyclotropis pylades Jord. pl. x f. 17 (311) *E. barynotus* f. 18, *gibbosus* f. 19, (312), **spp. n.**, Central America, JORDAN T.c.

Eugonops championi Guatemala pl. xiii f. 20 (361), JORDAN T.c., **sp. n.**

Eugonus decorus, Nicaragua (351) pl. xiii f. 10, JORDAN T.c., **sp. n.**

Euparius; synonymy (345), *E.* (as *Cratoparis*) *tapirus* (346), *polius* Jord. pl. xiii f. 3 (347), *similis* Jord. f. 1 (348), *thoracicus* Fähr. (as *Cratoparis*) pl. xiii f. 7 (349); *E. dermestinus* pl. xiii f. 2, *suturalis* f. 4 (348), *coelebs* f. 5, *ochrus* f. 6, (349), *frenatus* f. 8, *championi* f. 9, (350), Central America, **spp. n.**, JORDAN T.c. — *E. subtesselatus* **sp. n.** Arizona, SCHAEFFER (274) Philadelphia Trans. Amer. Ent. Soc. 32.

Eusphyrus circulus pl. xiv f. 11, *bicolor* f. 12, (372), *unicolor* f. 13, *scutosus* f. 14, *ros* f. 15, (373), *rectus* f. 16, *lioderus* f. 17, *lacricollis* f. 18, *mucronatus*, (374), *tonsor*, *dilutus*, *fragilis* f. 19, *vestitus* f. 20, (375), *rugicollis* f. 21, *analís* f. 22, *simplex*, (376), *irpex* f. 23, *tenuis* f. 24, *insignis* f. 25, (377), *minax* (378), Central America, JORDAN Biol. Centr.-Amer. Col. 4 pt. 6, **spp. n.** — *E. rectus* (271), *arizonensis* (272), N. America, SCHAEFFER Philadelphia Trans. Amer. Ent. Soc. 32, **spp. n.**

Goniocloeus umbrinus Jord. pl. xi f. 27, *orbitalis* Lac. (as *Stroboscopus*) f. 28, (324), *niger* Jord. (as *Monocloeus*) f. 30 (325), *tarsalis* Jord. pl. xii f. 1 (326), JORDAN Biol. Centr.-Amer. Col. 4 pt. 6; *G. funereus* pl. xi f. 29 (324), *tholurus*, *fractus*, *carbonarius*, (325), *laticeps*, *politus* pl. xii f. 2, (326), *mexicanus* f. 3, *inversus* f. 5, (327), *curtatus* f. 4, *silvanus* f. 6, *linifer* f. 7, (328), *reflexus* f. 8, *nanus* f. 9, *pumilus* f. 10, (329), *pusillus* f. 11, *icæ* f. 12, *ornaticeps* f. 13, (330), *insignis* f. 14, *parvulus* f. 15, (331), Central America, JORDAN T.c., **spp. n.**

Griburiosoma **gen. n.** near *Phaeniton* (272), *platanum* **sp. n.** Arizona, (273), SCHAEFFER Philadelphia Trans. Amer. Ent. Soc. 32.

Gymnognathus scalaris pl. xi f. 7 (336), *claudia* f. 8, *polius* f. 9, (337), *ampulla* f. 11, *thecla* f. 12, *mexicanus* f. 13, (338), *abundans* f. 14, *ruficlava* f. 15, *calus* f. 16, (339), *puleher* f. 17 (340), **spp. n.**, Central America; *G. femoralis* Jord. pl. xi f. 10 (337), JORDAN Biol. Centr.-Amer. Col. 4 pt. 6.

Habrissus sellifer Nilgiri hills, JORDAN (409) Nov. Zool. Tring 13, **sp. n.**

Hiera **gen. n.** near *Homocloeus*, *oculata* **sp. n.** Guatemala pl. xii f. 16, JORDAN (382) Biol. Centr. Amer. Col. 4 pt. 6.

Homocloeus concolor Jord. pl. xi f. 25, *femoralis* f. 26, JORDAN (333) T.c.; *H. pardalis* pl. xi f. 23, *puncticollis* f. 24, (333), *xanthopus* (334), JORDAN T.c., **spp. n.**

Hypselotropis albatrus Jord. pl. x f. 6, (304), JORDAN T.c.

Ischnocerus impressicollis Jord. pl. x f. 5 (306); *I. consors* pl. x f. 7 (306), *metallicus* f. 8, *championi* f. 9, *griseatus* f. 10, (307), *vittiger* f. 11 (308), Central America, JORDAN T.c., **spp. n.**

Lagopezus inversus pl. x f. 23, *morio* f. 24, Central America, JORDAN (315) T.c., **spp. n.**

Mecocerus allec'us elegans subsp. n. JORDAN (408) Nov. Zool. Tring 13.

Monocloeus idacus Jord. pl. xi f. 20; *M. anas* f. 19 (334), *gracilis* f. 21, *bioderes* f. 22, (335), **spp. n.**, Central America, JORDAN Biol. Centr.-Amer. Col. 4 pt. 6.

(N-9720j)

Neanthrribus **gen. n.** near *Anthrribus* (311), *championi* pl. xii f. 18 (342), *segregus* f. 19, *hieronymus* f. 20, *obtusus* f. 21, (343), *plagicollis* f. 22, *stephanus* f. 23, *apicalis* f. 24, *grammies* f. 25, (344), *pistor* f. 26 (345), **spp. n.**, Central America, JORDAN Biol. Centr.-Amer. Col. 4 pt. 6.

Nemotrichus armatus Jord. pl. xii f. 28, *N. angulatus* pl. xii f. 27 (352), *teliger*, *inermis* f. 29, *spilotus* f. 30, (353), Central America, **n. spp.**, JORDAN T.c.

Ormiscus pardus pl. xiii f. 22, *tigrinus* f. 23, (364), *aequalis* f. 24, *stratus* f. 25, *centralis* f. 26, (365), *laticollis* f. 28, *lateralis* f. 27, *elegans* f. 29, *subtilis* f. 30, (366), *calus* pl. xiv f. 1, *tener* f. 2, *aeneus* f. 3, (367), *minor* f. 4, *nanus* f. 5, (368), *nigrinus* f. 6, *brunneus* f. 7, *guttatus* f. 8, (369), *phacomelas* f. 9, *marmoreus* f. 10, (370), Central America, JORDAN T.c., **spp. n.**

Phaenithon championi pl. xiii f. 12 (356), *pollux* f. 11, *eastor* f. 13, *discifer* f. 14, (357), *uncinatus* (358), *jucundus* f. 16 (359), *leucospilus* f. 17, *pardalis* f. 18, *caeruleus* f. 19, (360), Central America, **spp. n.**; *P. nigritarsis* Jord. pl. xii f. 15 (359); JORDAN T.c.

Phanosolena arizonica **sp. n.** Huachuca mts. SCHAEFFER (269) Philadelphia Trans. Amer. Ent. Soc. 32.

Phloeominus **gen. n.** near *Phloeobius*, *griseus* **sp. n.** Burma, JORDAN (409) Nov. Zool. Tring 13.

Phoenicobiella **nom. n.** for *Phoenicobius* Lec., COCKERELL (243) Ent. News 17.

Phoenicobius schwarzi **sp. n.** Texas, SCHAEFFER (273) Philadelphia Trans. Amer. Ent. Soc. 32.

Physopterus analis South India, JORDAN (408) Nov. Zool. Tring 13, **sp. n.**

Piezobarra **gen. n.**, *sparsilis* **sp. n.** Central America pl. x f. 22, JORDAN (314) Biol. Centr.-Amer. Col. 4 pt. 6.

Piezocorynus homoeus Jord. pl. x f. 29 (317), *plagifer* Jord. f. 25 (319), JORDAN T.c.—*P. dimidiatus* pl. x f. 26 (316), *sellatus* f. 27, *lateralis* f. 28, (317), *atratus* f. 30, *occipitalis* pl. xi f. 1, *strigifer* f. 2, (318), *simplex* f. 3 (319), Central America, JORDAN T.c., **spp. n.**—*P. tessellatus* **sp. n.** Arizona,

SCHAEFFER (274) Philadelphia Trans. Amer. Ent. Soc. **32**.

Ptychoderes tricostifrons Fähr. pl. x f. 1, *rugicollis* Jordan f. 2, *mixtus* Jek. f. 3, (303), *biirittatus* Jord. f. 4 (304), JORDAN Biol. Centr.-Amer. Col. 4 pt. 6.

Sintor andreweesi Nilgiri hills, JORDAN (408) Nov. Zool. Tring **13**, sp. n.

Stenocerus longulus variation (321), var. *mexicanus* Jek. pl. xi f. 5; *S. platatea* Central America sp. n. pl. xi f. 6 (322); JORDAN Biol. Centr.-Amer. Col. 4 pt. 6.

Tachytropis asper Jord. pl. xii f. 17 (322), JORDAN T.c.

Toxotropis sextuberculatus (269), *eusphyroides*, *quercus*, (270), *albofasciatus* (271), United States, SCHAEFFER Philadelphia Trans. Amer. Ent. Soc. **32**, sp. n.

Xenocerus bennigseni New Guinea, sp. n.; *lacrymans herbertus* subsp. n., JORDAN (410) Nov. Zool. Tring **13**.

CERAMBYCIDAE.

Descriptive work on *Cerambycidae* of India, Ceylon and Burma; GAHAN, Faun. Brit. Ind. Col. **1**. Includes new groups and remarks on classification.

The *Cerambycidae* of Dalmatia, with remarks on habits, variation, localities, Josef MÜLLER, Wien. Verh. Zool.-bot. Ges 1906 (653-695).

Bohrgänge von Käferlarven in Braunkohlenholz, LINSTOW Briefl. Mitt. Berlin Jahrb. geol. Landesanst. **26** (1905) 1906 (467-470).

Acanista arachne New Caledonia, FAUVEL (97) Rev. ent. Caen **25**, sp. n.

Acanthocinus brevis New Caledonia, FAUVEL (94) T.c., sp. n.

Acanthophorus serraticornis (24) fig. 9, GAHAN Faun. Brit. Ind. Col. **1**.

Aegsoma ornaticolle (45) fig. 17; *terminale* sp. n. Ceylon (49); GAHAN Faun. Brit. Ind. Col. **1**.

Aeoleshes basicornis (127) f. 49, GAHAN T.c.

Agelasta; components, correction, GAHAN (117) J. Federated Malay States Mus. **1**.

Aglaplis humerosus (303) f. 98; *watsoni* Barma sp. n. (304); GAHAN Faun. Brit. Ind. Col. **1**.

Alphitopola schistacea Transvaal, JORDAN (162) pl. xvi f. 7, Ins. Transvaal by Distant, sp. n.

Amaurostoma subgen. n. von *Oberca*, MÜLLER Entomol. Ztg. Wien **25** (223).

Animes macilentus (100) fig. 39, GAHAN Faun. Brit. Ind. Col. **1**.

Anaethetis numeensis New Caledonia, FAUVEL Rev. Ent. Caen **25**, sp. n.

Anaglyptus (*Cyrtophorus*) *persicus* Talysch (297), *simplicicornis* Südrussland (298), REITTER Entomol. Ztg. Wien **25**, spp. n.

Anancylus basalis Malay penins. and Borneo, GAHAN (116) pl. vi f. 12 J. Federated Malay States Mus. **1**, sp. n.

Ancylotropus bigibbosus (19) fig. 6, GAHAN Faun. Brit. Ind. Col. **1**.

Anoeme andreweesi Nilgiri hills, GAHAN (54) fig. 20 T.c.

Anubis inermis (221) f. 82, GAHAN T.c.

Apatophysis kashmiriana (70) fig. 26; *montana* Himalaya, *modica* Quetta, spp. n., (71); GAHAN T.c.

Aphrodisium planicolle (206) f. 79, GAHAN T.c.

Apioccephalus licheneus India, GAHAN (74) T.c., sp. n.

Apiogaster xanthomelas Transvaal, JORDAN (161) pl. xvi f. 9 sp. n.; *A. collare*, Jord., f. 8; Ins. transvaal by Distant.

Apomecyna chaka Natal, DISTANT (165) Ins. transvaal., sp. n.

Arcyphorus conformis Selangor, GAHAN (112) pl. vi f. 5 J. Federated Malay States Mus. **1**, sp. n.

Armatosterna natalensis Durban, DISTANT (165), Ins. transvaal., sp. n.

Aromia and allies; brief table; REITTER Entomol. Ztg. Wien **25** (303).—*A. moschata* L. varr. n.; REITTER T.c. (275); sexual habits, SLEVOGT Insektenbörse **23** (64).

Artimpaza bicolor (314) f. 103, GAHAN Faun. Brit. Ind. Col. **1**.

Astetholea varia, *opacicollis*, *denticollis*, New Caledonia, FAUVEL (45) Rev. Ent. Caen **25**, spp. n.

Atossa spilota GAHAN (118) pl. vi f. 13 J. Federated Malay States Mus. **1**, **sp. n.**

Axinopalpus gracilis Kryn., Beschreibung, MÜLLER Entomol. Ztg. Wien **25** (223).

Bacuris **gen. n.** type *Eudesmus sexvittatus* Bates, GOUNELLE (274) Paris Bull. Soc. ent. **1906**.

Daralipton maculosum (42) fig. 15, GAHAN Faun. Brit. Ind. Col. **1**.

Bicon bimaculatum India, GAHAN (310) T.c., **sp. n.**

Blapsilon elongatum, *scutellare*, (61), *cyanipes*, *purpureum*, (62), New Caledonia, FAUVEL Rev. Ent. Caen **25**, **spp. n.**

Blosyropus dentatus New Caledonia, FAUVEL (47) T.c., **sp. n.**

Callichromopsis telephoroides (181) f. 71, GAHAN Faun. Brit. Ind. Col. **1**.

Callidium fasciatum Villers, Beschreibung, MÜLLER Entomol. Ztg. Wien **25** (223).

Callimus distinctipes Syrie, PIC (11) Echange **22**, **sp. n.**

Caloclytus juvenis (263) f. 92; *sagittarius* Ceylon (261), *socius* Darjiling (264), *dohertii* Burma (267), *patricius* Belgauin, *cingalensis* Ceylon, (268); GAHAN Faun. Brit. Ind. Col. **1**, **spp. n.**

Cantharoenemis downesi (27) fig. 10, GAHAN T.c.

Capnolymma cingalensis Ceylon, GAHAN (73) fig. 28 T.c.

Caraphia **gen. n.** *Lepturinae*, *eribrata* (75), *minor* (76), **spp. n.**, Burma, GAHAN T.c.

Centrotoelytus carinatus Andaman islds. (309) f. 100, GAHAN T.c., **sp. n.**

Ceresium leucosticticum (159) f. 64; *angustulum* (158), *modestum* India, *ventrale* Burma, (160), *apicale* Tenasserim, *nilgiriense* India, *andamanicum* Andaman islds., (161), **spp. n.**; GAHAN T.c.—*C. carinatum*, *lanigerum*, (49), *obscurum*, *vulneratum*, *nitidicollis*, (50), *binotatum* (51), New Caledonia, FAUVEL Rev. Ent. Caen **25**, **spp. n.**

Chelidonium gibbicollis (213) f. 80, GAHAN Faun. Brit. Ind. Col. **1**.

(N-9720 j)

Chereutes **gen. n.** type *Eudesmus nireilateris* Thoms., GOUNELLE (272) Paris Bul. soc. ent. **1906**.

Chloridolum nympha (201) f. 77, GAHAN Faun. Brit. Ind. Col. **1**.

Choeromorpha robinsoni Malay penins. and Borneo, GAHAN (117) pl. vi f. 15 J. Federated Malay States Mus. **1**, **sp. n.**

Chronoma fortunei Thoms. metamorphosis of (Japanese), KUWANA Knoch. Sek. Gifu **10** 1906 (12-15).

Cleomenes chryseus Burma (317) f. 105, GAHAN Faun. Brit. Ind. Col. **1**, **sp. n.**

Cleptometopus setiger New Caledonia, FAUVEL (99) Rev. Ent. Caen **25**, **sp. n.**

Closteromerus nitens Transvaal, JORDAN (161) pl. xvi f. 12 Ins. Transvaal by Distant, **sp. n.**

Clytellus olesteroides (313) f. 102, GAHAN Faun. Brit. Ind. Col. **1**.

Clyocera **gen. n.** near *Rhaphuma* (279), *chionospila* **sp. n.** S. India (280), GAHAN T.c.

Clytus callizonus Burma fig. 91, *monticola* Kashmir, GAHAN (251) T.c., **spp. n.**

Coelosterna rouyeri **sp. n.** Sumatra, RITSEMA Leiden Notes Mus. Jentink **28** (137-138).

Criocephalus exoticus f. 38; *C. (Cephalallus) unicolor* Assam **sp. n.**, GAHAN (97) Faun. Brit. Ind. Col. **1**.

Ctenodes geniculata var. = (*thoracica* Redt.), GOUNELLE (19) Paris Ann. soc. ent. **75**.

Cyclopeplus castaneus pl. i f. 7 Goyaz, *garmaini* f. 8 Bolivia, GOUNELLE (3) T.c., **spp. n.**

Cyllene robiniae, natural history, HOPKINS Washington D.C. Bull. U. S. Dep. Agric. Ent. **58** pt. i.

Cyrtanops nigra Manipur, GAHAN (60) fig. 22 Faun. Brit. Ind. Col. **1**, **sp. n.**

Dandamis **gen. n.** for *Cyrtanops nigropunctatus* Auriv. fig. 18, GAHAN (50) T.c.

Deilus notula New Caledonia, FAUVEL (57) Rev. Ent. Caen **25**, **sp. n.**

Delagoa testacea Transvaal, JORDAN (160) pl. xvi f. 30 Ins. Transvaal by Distant, **sp. n.**

Demagogus duchesnei Abyssinia, LESNE (505) Bul. Mus. Paris 1906, **sp. n.**

Demodes vittata, GAHAN (117) pl. vi f. 14 J. Federated Malay States Mus. **1** 1906, **sp. n.**

Demonax lineatus (281) f. 94; *monticola* Assam (282), *albosignatus*, *oblongomaculatus*, Burma, (283), *nigromaculatus* Sikkim (284), *decens* fig. 95, *decorus* S. India, (288), *andamanicus* Andaman Islds. (290), *dohertyi* Manipur (291), *fryanus*, *quadrifollis*, Burma, (293), *maculicollis* S. India (297); GAHAN Faun. Brit. India Col. **1**, **spp. n.**—*D. ventralis* Selangor, GAHAN (113) J. Federated Malay States Mus. **1**, **sp. n.**

Dere affinis f. 104, *fulvipennis*, India, *apicalis* Ceylon, (105), GAHAN Faun. Brit. Ind. Col. **1**, **spp. n.**

Derolus mauritanicus (135) f. 53; *discicollis* **sp. n.** Karachi (136); GAHAN Faun. Brit. Ind. Col. **1**.

Dialeges undulatus (143) f. 56, GAHAN Faun. Brit. Ind. Col. **1**.

Dicra **gen. n.** near *Leptonota*, *insignicornis*, (88), *nodicornis* (89), **spp. n.**, New Caledonia, FAUVEL Rev. Ent. Caen **25**.

Dinoprius cephalotes (44) fig. 16, GAHAN Faun. Brit. Ind. Col. **1**.

Diorthus simplex (133) f. 51, GAHAN T.c.

Dissosternus perii, GAHAN (8) fig. 2 T.c.

Distenia kalidasae (63) fig. 57; *dohertyi*, *dravidiana*, **spp. n.**, India, (64); GAHAN T.c.—*D. queketti* Natal, DISTANT (164) Ins. Transvaal, **sp. n.**

Doesus taprobanicus Ceylon, GAHAN Faun. Brit. Ind. Col. **1**, **sp. n.**

Dorcadion (*Compsodorcadion*), revision; *grande*, *kuznezovi*, *op'atum*, *pelidnum*, *rufidens*, **spp. n.**, JAKOVLEV Rev. russ. ent. **6** (32-48).—*D. curtulum* Perse, PIC (50) Echange **22**, **sp. n.**—*D. arenarium*, variation, Josef MÜLLER Wien Verh. zool. bot. Ges. 1906, (690-695).—*D. arenarium* var. *marsicanum* d'Amcre, Beschreibung, MÜLLER Entomol. Ztg. Wien **25** (219).

Dorysthenes rostratus, GAHAN (6) fig. 1 Faun. Brit. Ind. Col. **1**.

Dymasius macilentus (139) f. 55; *minor* India (140), *plagiatus* Burma (141), **spp. n.**, GAHAN T.c.

Dynamostes audax (62) fig. 23, GAHAN T.c.

Dystabia affinis, GAHAN (120) J. Federated Malay States Mus. **1**, **sp. n.?**

Eburia **sp.**, destructeur des maisons en Colombie; GARCIA Bul. Mus. Paris **1906** (96-100).

Enicodes trochilus (74), *annulifer*, *rugiceps*, *thomsoni*, (75), *granulum*, *viridipes*, (76), *clavus*, *cylindricus*, (77), *bougieri*, *gracilis*, (78), *opacus*, *bimaculatus*, *latreillei*, (79), *scripticollis*, *fractimacula*, (80), *univittatus*, *limbicollis*, (81), New Caledonia, FAUVEL Rev. Ent. Caen **25**, **sp. n.**

Ephies coccineus India, GAHAN (87) f. 31 Faun. Brit. Ind. Col. **1**, **sp. n.**

Epipedocera zona (306) f. 99, *laticollis* **sp. n.** Burma (307), GAHAN T.c.

Erythrurus vestroodi fig. 86, *coccineus* **sp. n.** N. India, GAHAN (231) T.c.

Estola picta N. America **n. sp.**, but probably is *Lypsimena tigrina* Sk., SCHAEFFER (20) Canad. Entomol. **38**.

Endesmus; vide *Chereutes* and *Bazuris*.

Eunidia pusilla Natal, DISTANT (166) Ins. Transvaal, **sp. n.**

Euryphagus lundii (188) f. 74, GAHAN Faun. Brit. Ind. Col. **1**.

Eusromula **nom. n.** = *Eustroms* Lec., COCKERELL (242) Ent. News **17**.

Exocentrus lacteolus Natal DISTANT (166) Ins. Transvaal, **sp. n.**

Freadelpha junodi Transvaal, JORDAN (162) pl. xvi f. 16 Ins. Transvaal by Distant, **sp. n.**

Gelonaetha hirta (155) f. 62, GAHAN Faun. Brit. Ind. Col. **1**.

Glenea marleyi Natal, DISTANT (166) Ins. Transvaal, **sp. n.**—*G. robinsoni*, (120) pl. vi f. 16, *virgata* (121), GAHAN J. Federated Malay States Mus. **1**, **spp. n.**

Gnatholea simplex fig. 44, *fryana* **sp. n.** Tennasserim, GAHAN (111) Faun. Brit. Ind. Col. **1**.

Gymnocerus bruchi Argentine (17), *histris* Amazonas (18), GOUNELLE Paris Ann. soc. ent. **75**, **spp. n.**

Halme cinctella Ceylon (311) f. 101, *caerulescens* Andaman islds. (312), GAHAN Faun. Brit. Ind. Col. **1**, **spp. n.**

Hammatichaerus lasiocerus ♀ = (*consobrinus* Gah.), GOUNELLE (20) Paris Ann. soc. ent. **75**.

Haploenemia curculionoides var. n. *nigronotata*, PIC (86) Echange **22**.

Haplohammus granulatus Malay penins. and Borneo, GAHAN (115) pl. vi f. 10 J. Federated Malay States Mus. **1**, **sp. n.**

Helius **gen. n.** near *Enicodes*, *brevicornis* **sp. n.** New Caledonia, FAUVEL (71) Rev. Ent. Caen **25**.

Hesperophanes sericeus Fabr., Sexualdimorphismus, MÜLLER Entomol. Ztg. Wien **25** (224).

Homalomelas gracilipes (233) f. 87, *quadridentatus* **sp. n.** Ceylon (234), GAHAN Faun. Brit. Ind. Col. **1**.

Hoplistocerus iheringi (6) pl. i f. 5, *callioides* (7) f. 8 Brésil, *dichrous* Colombie (8), GOUNELLE Paris Ann. Soc. ent. **75**, **spp. n.**

Hoplocerambyx spinicornis (132) f. 50, GAHAN Faun. Brit. Ind. Col. **1**.

Hypoëschrus indicus Calcutta (104) f. 41, GAHAN T.c., **sp. n.**

Hypsideres junodi Transvaal, JORDAN (163) pl. xvi f. 17 Ins. transvaal. by Distant, **sp. n.**

Ibidionidium corbetti (168) f. 66, GAHAN Faun. Brit. Ind. Col. **1**.

Iresioides moesta (320) f. 107, GAHAN T.c.

Ipothalia pyrrha (223) f. 83, GAHAN T.c.

Kunbir telephoroides (175) f. 69, GAHAN T.c.

Leipus crucifer, *caledonicus*, New Caledonia, FAUVEL (98), Rev. Ent. Caen **25**, **spp. n.**

Leptonota scabricollis New Caledonia, FAUVEL (86) T.c., **sp. n.**

Leptura (*Strangalia*) *quadrifusciata* var. n. *lugubris*, SAHLBERG (47) Helsingfors Medd. Soc. Fauna Fl. Fenn. **31**.—*L. unipunctata dalmatina* var. n., Josef MÜLLER Wien Verh. Zool.-bot. Ges. 1906 (662).—*L. cerambyciformis* var. n., *bisbistigma*, *maculata* var. n. *alsatica*, PIC (67) Echange **22**.—*L. dubia* var. n. *moreana*, PIC (96) T.c.—

L. rubriola (81) f. 33, *miniacea* (82), *lavinia* (83), N. India, *clytina*, *lepta*, (84), *cribripennis* (85), Burma, *manipurensis* Manipur (86), **spp. n.**, GAHAN Faun. Brit. Ind. Col. **1**.

Liagrica timida Muls., Sexualdimorphismus, MÜLLER Entomol. Ztg. Wien **25** (224).

Litopus dispar, habits, DISTANT (160) Ins. transvaal.

Logaeus subopaeus (20) fig. 7, GAHAN Faun. Brit. Ind. Col. **1**.

Lophosternus indicus (10) fig. 3, *socius* (11), *palpalis* (12), *similis* (13), **spp. n.**, India and Burma, GAHAN T.c.

Macrochenus melanospilus Malay penins. and Borneo, GAHAN (114) pl. vi f. 8 J. Federated Malay States Mus. **1**, **sp. n.**

Macrotoma crenata (37) fig. 13, GAHAN Faun. Brit. Ind. Col. **1**.

Mallosia gracca, HOLTZ Insektenbörse Leipzig **23** (159–160).

Margites exiguus (137) f. 54; *modicus* **sp. n.** India (138); GAHAN Faun. Brit. Ind. Col. **1**.—*M. saucifrons* (161) pl. xvi f. 11, JORDAN Ins. transvaal by Distant.

Massicus unicolor Assam, GAHAN (130) Faun. Brit. Ind. Col. **1**, **sp. n.**

Melegena flavipes Bombay, GAHAN (66) T.c.

Merionoeda andreucsi Nilgiri hills (172) f. 68, *taprobanica* Ceylon (173), GAHAN T.c., **spp. n.**

Micracantha signata New Caledonia, FAUVEL (95) Rev. Ent. Caen **25**, **sp. n.**

Microcleptes apicicornis (68), *rugicollis*, *ptinoides*, (69), *denticollis* (70), New Caledonia, FAUVEL T.c., **spp. n.**

Mimistena biplagiata Selangor, GAHAN (113) pl. vi f. 7 J. Federated Malay States Mus. **1**, **sp. n.**

Molorechus taprobanicus Ceylon, GAHAN (170) f. 67 Faun. Brit. Ind. Col. **1**, **sp. n.**

Monohammus serratus, Malay penins. and Borneo, GAHAN (115) pl. vi f. 9 J. Federated Malay States Mus. **1**, **sp. n.**

Nemaschema lineatum (83), *nitidulum chlorizans*, (84), *macilentum*, *griseum* (85), *flarium* (86), New Caledonia, FAUVEL Rev. Ent. Caen **25**, **spp. n.**

Neocerambyx grandis (125) f. 48, GAHAN Faun. Brit. Ind. Col. 1.

Neodorcadion hircus **sp. n.** Mongolei, JAKOVLEV Rev. russ. ent. 6 (1-2).

Neopachyta **nom. n.** pro *Pachyta* Serv., BEDEL (93) Paris Bull. Soc. ent. 1906.

Neoprion parandraeformis (29) fig. 11, GAHAN Faun. Brit. Ind. Col. 1.

Nidi flavovittata (318) f. 106; *andamanica* Andaman islds. (107) **sp. n.**, GAHAN T.C.

Nothopeus hemipterus (203) f. 78, GAHAN T.C.

Nymphasia pascoei (153) f. 61, GAHAN T.C.

Nysina, **gen. n.** for *Sphaerion orientalis* White, GAHAN (153) T.C.

Obereo; Gattungseinteilung, **subg. n.** *Amaurostoma*, MÜLLER Entomol. Ztg. Wien 25 (222).—*O. oculata*, Synonymic, HEYDEN Entomol. Ztg. Wien 25 (146-147).

Obrium translucidum (53), *laticorne* (54), New Caledonia, FAUVEL Rev. Ent. Caen 25, **spp. n.**

Oemospila **gen. n.** near *Xystrocera* (104), *maculipennis* **sp. n.** N. India (105), GAHAN Faun. Brit. Ind. Col. 1.

Oligoenoplus ventralis (302) f. 97, GAHAN T.C.

Oncideres cornuticeps Texas, SCHAEFFER (20) Canad. Entomol. 33, **sp. n.**

Oplatocera oberthuri N. India (108) fig. 43, GAHAN Faun. Brit. Ind. Col. 1, **sp. n.**

Oxymirus cursor Varietäten, REITTER Entomol. Ztg. Wien 25 (139-140).—*O. cursor* auctt. Quetta (79) f. 31, GAHAN Faun. Brit. Ind. Col. 1.

Pachydissus parvicollis (131) f. 52, GAHAN T.C.

Pachylocerus crassicornis (226) f. 81, GAHAN T.C.

Pachyteria fasciata (196) f. 76, GAHAN T.C.

Paphora pulchra (323), *miles* (324), Australia, BLACKBURN Adelaide S. Aust. Trans. R. Soc. 30, **spp. n.**

Peuthona **gen. n.** near *Apatophysis* (71), *prionoides* **sp. n.** Sikkim (72) fig. 27, GAHAN Faun. Brit. Ind. Col. 1.

Peloconus **gen. n.** near *Aphalanthus*, *junodi* **sp. n.** Transvaal pl. xvi f. 14, JORDAN (163) in Distant Ins. transvaal.

Penichroa Steph. = (*Exilia* Muls. = *Liagrica* Costa), *P. fasciata* Steph. = (*timida* Mén.), BEDEL (93) Paris Bull. Soc. ent. 1906.

Perissus nilgiriensis S. India (256), *dohertii* Manipur, *parrulus* Ceylon, (257), GAHAN Faun. Brit. Ind. Col. 1, **spp. n.**

Phacellus curieri = (*purpureus* Lac.), GOUNELLE (20) Paris Ann. Soc. ent. 75.

Pharsalia ferruginea Malay penins. and Borneo, GAHAN (116) pl. vi f. 11 J. Federated Malay States Mus. 1, **sp. n.**

Philus globulicollis (57) fig. 21, GAHAN Faun. Brit. Ind. Col. 1.

Phoracantha sawesi New Caledonia, FAUVEL (47) Rev. Ent. Caen 25, **sp. n.**

Phyodexia concinna (183) f. 72, GAHAN Faun. Brit. Ind. Col. 1.

Phytoecia angelicae Reitt. (22), *puncticollis* var. *n. aladaghensis* (37), REITTER Entomol. Ztg. Wien 25.—*P. virgula* Charp. and *P. vulnerata* Muls., MÜLLER Entomol. Ztg. Wien 25 (221).—*P. suworowi* **sp. n.** Caucasus, KOENIG Entomol. Ztg. Wien 25 (26).—*P. (Obereina) luteocittigera* Perse, *guillei* Yunnan, PIC (4) Echänge 22, **spp. n.**

Phyxium lanatum New Caledonia, FAUVEL (89) Rev. Ent. Caen 25, **sp. n.**

Plocaederus obsus (122) f. 47, GAHAN Faun. Brit. Ind. Col. 1.

Polyacantha tigrina (90), *trifolium* (91), New Caledonia, FAUVEL Rev. Ent. Caen 25, **spp. n.**

Polyphidi modesta Selangor, GAHAN (113) pl. vi f. 6 J. Federated Malay States Mus. 1, **sp. n.**

Polyzonus tetraspilotus varr. *n.* *megaspilus*, *microspilus*, (215) and *macrospilus* (216), *bizonatus* (217); f. 81; *brevipennis* (217), *watsoni* (218), **spp. n.**, Burma, GAHAN Faun. Brit. Ind. Col. 1.

Praonetha subtineta Pasc. to *Pterolophia*, GAHAN (119) J. Federated Malay States Mus. 1.

Priononomma atratum (17) fig. 5, GAHAN Faun. Brit. Ind. Col. 1.

Prionus corpulentus (15) fig. 4, *elliotti* Quetta **sp. n.** (16); GAHAN T.C.—*P. tridentatus* L. = (*coriarius* L.), BEDEL (93) Paris Bull. Soc. ent. **1906**.

Priotyranus mordax (22) fig. 8, GAHAN Faun. Brit. Ind. Col. **1**.

Protaxis, **gen. n.** *Protaxini* new group of *Cerambycinae*, *fulvescens* **sp. n.** fig. 36 Burma, GAHAN (93) T.C.

Prothema aurata Assam, GAHAN (235) f. 88 T.C., **sp. n.**

Psilomerus angustus fig. 96, *bimaculatus* (300), *hampsoni* (301), S. India, **spp. n.**; GAHAN T.C.—*P. gracilis* Selangor, GAHAN (112) pl. vi f. 4 J. Federated Malay States Mus. **1**, **sp. n.**

Pteridotelus argentellus New Caledonia, FAUVEL (95) Rev. Ent. Caen **25**, **sp. n.**

Pterolophia robinsoni, GAHAN (119) J. Federated Malay States Mus. **1**, **sp. n.**

Purpuricenrus sanguinolentus (184) f. 73, GAHAN Faun. Brit. Ind. Col. **1**.

Pyrestes pyrillus India (228) f. 85, *dohertii* Burma (289); GAHAN T.C., **spp. n.**

Pyrocalymma pyrochroides fig. 35; *conspicua* **sp. n.** Burma; GAHAN (89) T.C.

Ranqueles, **gen. n.** near *Hesperophanes* (140), *mus* **sp. n.** Mendoza (141) GOUNELLE Paris Bull. Soc. ent. **1906**.

Rhaphipodus taprobanicus (31) fig. 12, GAHAN Faun. Brit. Ind. Col. **1**.

Rhaphuma diana Burma (271), *pathaina* Assam (272), *phiale* Burma (273), *fulgurata* Sikkim, *manipurensis* Manipur, (274), *rhea* (276), *suturalis*, *trinalba*, (278), *elegantula* (279), S. India; GAHAN T.C., **spp. n.**

Rhondia, **gen. n.** for *Leptura pugnax* Dohrn, figured fig. 32, GAHAN (79) T.C.

Rhytidodera robusta (147) f. 59, GAHAN T.C.

Rosalia alpina L. varr. n. *selincki* & *kyselyi* Herzegowina, ZOUFAL Entomol. Ztg. Wien **25** (264).—*R. lameerei* (177) f. 70, GAHAN Faun. Brit. Ind. Col. **1**.

Salpinia socia Assam, GAHAN (163) T.C., **sp. n.**—*S. picta* New Caledonia, FAUVEL (52) Rev. Ent. Caen **25**, **sp. n.**

Saperda populnea L. Brutpflege, BENICK Nerthus Altona **6** 1904 (306–310).

Sarmydlus antennatus (52) fig. 19, GAHAN Faun. Brit. Ind. Col. **1**.

Sebasmia templetoni f. 57, *testacea*, Ceylon, (144), *nigra* Nilgiri hills (145), **spp. n.**, GAHAN T.C.

Sibylla dancoi, LAMEERE (49) pl. i f. 9 Résult. Belgica, Zoologie.

Sphacrium blandum Newm. = (*detritum* Lam.), GOUNELLE (20) Paris Ann. Soc. ent. **75**.

Spondylis buprestoides, an invasion of, Berlin, WANACH (236) Berliner ent. Zs. **50**.

Stenhomalus fenestratus (166) f. 65, GAHAN Faun. Brit. Ind. Col. **1**.

Strangalia elboursensis Persia, PIC (390) Bul. Mus. Paris 1905, **sp. n.**

Strongylurus spinosus (55), *unidens* (56), New Caledonia, FAUVEL Rev. Ent. Caen **25**, **sp. n.**

Syndere lagria Jord., JORDAN (162) pl. xvi f. 10 Ins. transvaal. by Distant.

Taurelema oberthuri Rio Tapojos, (12) pl. i f. 2, *flavocincta* Colombia, *albopunctata* Guatemala, (13), *rutilans* Bahia, (14), GOUNELLE Paris Ann. Soc. ent. **75**, **spp. n.**

Teledapus doreadioides (77) fig. 30, GAHAN Faun. Brit. Ind. Col. **1**.

Tetraommatus flicornis (101) f. 40; *bimaculatus* **sp. n.** S. India (102); GAHAN T.C.

Tetropium oreinum Himalaya GAHAN (95) f. 37 T.C., **sp. n.**

Thercladodes bohemani Wh. pl. xvi f. 15, JORDAN (164) Ins. Transvaal. by Distant.

Thranis gibbosus (237) f. 89; *tri-plagiatus* Manipur, *fryanus* Texas-serim, **spp. n.**, (238); GAHAN Faun. Brit. Ind. Col. **1**.

Tmesisternus restitus New Caledonia, FAUVEL (72) Rev. Ent. Caen **25**, **sp. n.**

Toxotus meridianus pupal habits, Mjöberg (17) Uppsala Arkiv. Zool. **3** No. 6.

Trachyloplus sinensis (146) f. 58, GAHAN Faun. Brit. Ind. Col. **1**.

Tricondyloides arachne New Caledonia, FAUVEL (63) Rev. Ent. Caen **25**, sp. n.

Trinophylum cribratum (156) f. 63, GAHAN Faun. Brit. Ind. Col. **1**.

Typodryas callichromoides (65) fig. 25; *trochanterius* sp. n. Assam (66); GAHAN T.c.

Xoanodera regularis (150) f. 60, GAHAN T.c.

Xyloteles ochraceotinctus, luniger, (65), *litteratus, murinus, laticollis*, (66), New Caledonia, FAUVEL Rev. Ent. Caen **25** spp. n.

Xylotrechus quadripes (245) f. 90; *stebbingi* Himalaya, *lateralis* Burma, (244), *contortus* Sikhim (249), spp. n.; GAHAN Faun. Brit. Ind. Col. **1**.

Xylotrechus consocius pl. vi f. 3, *affinis* f. 1, Malay penins., spp. n., (111); *X. discors* Gah. f. 2 (112) GAHAN J. Federated Malay States Mus. **1**.

Zonopterus flavitarsis (191) f. 75; *corbetti* Burma (192), *diversus* Ceylon (193), spp. n.; GAHAN Faun. Brit. Ind. Col. **1**.

Zooblast elateroides (40) fig. 14, GAHAN T.c.

Zoodes quadridentatus (116), *fulguratus, nilgiriensis*, (117), India, GAHAN T.c., spp. n.

Zoographus oculatus var. n. *ruschi* (225), *aulicus* var. n. *pulverulentus* (226), NONFRIED Stettiner ent. Ztg. **67**.

Zygocera fasciolata New Caledonia, FAUVEL (92) Rev. Ent. Caen **25**, sp. n.

The following Cerambycidae have been previously recorded in the Zoological Record.

(*Acanthocinus linearis*, Arizona, SKINNER, Ent. News, **16**, 1905, (289-292), n. sp.)

(*Aromia pruinosa*, Kuldscha, REITTER, Entomol., Ztg., Wien, **22**, 1903. (233), sp. n.)

(*Colemia bruchi*, GOUNELLE, Paris, Bul. soc. ent., **1905**, sp. n.)

(*Coptops nrisparsa*, Tonkin, FAIRMAIRE, Mission Pavie, **3**, sp. n.)

(*Dorcadion dalmatinum* (137), *subcarinatum*, Italien, Südtirol (139), *rele-*

biticum, Kroatien (140), *brattiense*, Ins. Brazza, Dalmatien (144), *rubripes*, Herzegowina, Dalmatien, Kroatien (145), *hypophilum*, Bosnien, Dalmatien, Montenegro (146), spp. n., MÜLLER, Entomol. Ztg., Wien, **24**, 1905.)

(*Eurymassa figurata*, Life history, Cox, Sydney, N.S.W., Australian Naturalist, **1**, (30).)

(*Lucasianus lerailanti* Lucas, découverte en France et ses mœurs, MAYET, Paris, Bul. soc. entom., **1905**, (277-279).)

(*Lypsimena tigrina*, Arizona, SKINNER, Ent. News, **16**, 1905, (289-292), sp. n.)

(*Oncideres quercus*, Arizona, SKINNER, l.c., sp. n.)

(*Oxymirus cursor*, var. n., *subrittatus*, Böhmen, REITTER, Entomol. Ztg., Wien, **24**, 1905, (206); var. n., *nigrinus*, Tirol, REITTER, T.c. (250).)

(*Parazodes auricillii*, GOUNELLE, Paris, Bul. soc. ent., **1905**, sp. n.)

(*Pilemia*, Artübersicht, *warerkana*, Hochsyrien, REITTER, Entomol. Ztg., Wien, **24**, 1905, (240), sp. n.)

(*Prionus areschanus*, FAIRMAIRE, Paris, Bul. soc. ent., **1905**, sp. n.)

(*Purpurianus miniatus*, Tonkin, FAIRMAIRE, Mission Pavie, **3**, sp. n.)

(*Rosalia alpina* L., di Sicilia e sue varietà, RAGUSA, Enrico., Naturalista sicil., Palermo. **18**, N. 1, 1905, (7-8).)

(*Strangalia novaevalis*, sp. n., *jägeri* Hummel, *fenestrata*, Circassien, *melanura melanurella*, Sibirien, *melanura rubellata*, varr. n., Kaukasus, REITTER, Entomol. Ztg., Wien., **20**, 1901, (77-80).)

(*Sternotomus pupieri* Comores, FLEUTIAUX, Paris Bul. soc. ent., **1905**, (7-8), sp. n.)

(*Tetropiopsis guldei*, Algérie, CHUBAUT, Paris, Bul. soc. ent., **1905**, sp. n.)

BRUCHIDAE.

Bruchidius königi Kurdistan (96), *modestus* Mantchuria (97), *reitteri* Araxes Valley (95), spp. n., SCHILSKY in Küster and Kraatz Käfer Europas **42**.

(*Caryoborus lineatocollis* Cochin Chine, PIC (58) Paris Bull. Soc. entom. **1906**, sp. n.)

Kytorrhinus hauseri Dsungaria, PIC (50) Echange 22, sp. n.

Laria versus *Bruehus*, SCHILSKY D. ent. Zs. 1906 (467-469).

Pachymerus speculifer and *polycoccus*, SCHROTTY Zs. Wiss. Insekten-biol. 2 (98-102).

Spermophagus luteonotatus var. n. *paulonotatus*, *baeri* sp. n. Pérou, PIC (3) Echange 22.

CHRYSEMELIDAE

(except *Hispides* and *Cassidides*, for which vide p. 269).

Investigation of evolution in the genus *Leptinotarsa*, TOWER Washington D.C. Carnegie Inst. Publ. 48 (x + 320 30 pls.).

The genera and species of *Clytrinae*, JACOBY and CLAVAREAU Fasc. 49 Gen. Ins. (1-87 with 5 pls.).

Structure and life history of the larval stages of the *Donaciinae*, (Danish); BÖYING Dr. Disp. København 1906 (viii + 263 with 7 pls.).

Aesernia meeki (1), *costata* (2), New Guinea, JACOBY, Entomologist London 29, spp. n.—*A. gestroi* New Guinea, JACOBY (25) T.c., sp. n.

Amphimela ornata cf. *Toroderia fasciata*.

Androlyperus incisus n. sp. Arizona, SCHAEFFER (247) Brooklyn Mus. Bull. 1.

Anteriscus; composition, WEISE (39) D. ent. Zs. Berlin 1906.

Aplthona lutescens Gyll. var. n. *praeclara*, BODENMEYER D. ent. Zs. 1906.—*A. marshalli* (11), *dilutipes* (12), Natal, JACOBY London Trans. ent. soc. 1906, spp. n.

Asbecesta coeruleseens, *commoda*, Cameroons, spp. n., WEISE D. ent. Zs. Berlin 1906 (205).

Asphaera unicolor (399), *femorata*, *disiccollis*, (400), *hilaris*, *albifrons*, (401), *tarsata* pl. xiv f. 10, *nasalis* (402), *amabilis* (403), *zonulata* f. 7 (404), *vernalis*, *separata*, (405), *glabripennis*, *funerea*, (406), *brvicollis* (407), *dimidiaticornis*, *dejeani*, (408), *albicincta* pl. xiv f. 4, *bisbiplagiata* (409), *biplagiata*, *erichsoni*, (410), *maculicollis*, *apicalis*, (411), *elegantula* (412) pl. xiv f. 6, *tibialis*, *ferrugineo-vittata*, (413), *lacerata*

(414), *nitidissima* f. 5, *viridicollis*, (415), *tessellata* f. 8, *variegata* (416), *basimaculata* (417), *divisa* f. 9, *fuscifasciata* (418), S. America, *carilloensis* Costa Rica (403), JACOBY London Proc. Zool. Soc. 1905 2, spp. n.

Aulamorphus hollisi var. n. *sellatus*, WEISE (52) D. ent. Zs. Berlin 1906.—*A. pictus* E. Africa, JACOBY (49) London Trans. ent. Soc. 1906, sp. n.

Beiratia gen. n. *Monoleptinae*, *inornata* sp. n. Beira pl. iii f. 19, JACOBY (50) T.c.

Blepharida; the species, WEISE (55) D. ent. Zs. Berlin 1906.

Calligrapha polyspita metamorphoses, BRUCH (321) pl. ii Revist. Mus. La Plata 11.

Candezea congener, *parvicollis*, S. Africa, (43), *annulicornis* Zambesi pl. iii f. 12, *morio*, (44), *pygidialis* (45), W. Africa, JACOBY London Trans. ent. soc. 1906, spp. n.

Cereyonia nigricollis Natal, JACOBY (16) T.c., sp. n.—*C. usambarica* E. Africa sp. n., WEISE (57) D. ent. Zs. Berlin 1906.

Chac'oenema dumbrodenis (17), *barkeri* (18), *purpurea* (19), S. Africa, JACOBY London Trans. ent. soc. 1906, spp. n.—*C. vincenti* sp. n. Aegypten, REITTER Entomol. Ztg. Wien 25 (37).

Chilota italica Umbria, LEONI (145) Riv. Col. ital. 4, sp. n.

Chlamys prosternalis, *texana*, (227), *huachucae* (228), N. America, SCHAEFFER Brooklyn Mus. Bull. 1, spp. n.

Cnecorane ? *acaciae* sp. n. Texas, SCHAEFFER T.c. (246).

Colaspis subtropicus sp. n. Texas, SCHAEFFER T.c. (235).

Colaspoides macrocephalus sp. n. Texas, SCHAEFFER T.c. (236).

Colasposoma häfligeri (49), *sumptuosum* (50), spp. n., E. Africa, WEISE D. ent. Zs. Berlin 1906.

Coptocephala thoracica var. n. *bijuncta*, PIC (42) Echange 22.

Crepidodera (Derocrepis) acuminata (14), *C. malvernensis* (15) pl. iii f. 1, *nigripes* (16), spp. n., S. Africa; *C. usambarica* Weise = (*peringueyi* Jac.) (15); JACOBY London Trans. ent. Soc. 1906.—*C. aesculi* sp. n. Cincinnati,

DURY Cincinnati Ohio J. Soc. **20** (251-256).—*C. ferruginea interpunctata* and var. *sublaevis*, PORRIUS (71-73) Helsingfors Medd. Soc. Fauna Fl. Fenn. **31**.

Crioceris asparagi L. et ses variétés, PIC Paris Bul. soc. ent. **1906** (119-123).—*C. asparagi* and *macilenta* varr. n., HEYDEN Entomol. Ztg. Wien **25** (123-126).—*C. asparagi* var. n. *moguntiacae*, SCHUSTER Wiesbaden Jahrb. Ver. Natk. **59** (145-152).—*C. macilenta* var. n. *mediodisjuncta*, PIC (34) Echange **22**.

Cryptocephalus ineptus (42). *C. (Anteriscus) crilli* (46), *proteus* (41), E. Africa, **spp. n.**, *erythromelas* var. n. *kigonserensis* (38), WEISE D. ent. Zs. Berlin **1906**.—*C. duryi* (230), *simulans* (231), *umbonatus*, *quercus*, (232), N. America, **spp. n.**, SCHAEFFER Brooklyn Mus. Bull. **1**.

Cyrtonus montanus, Entwicklung, WEISE D. ent. Zs. **1906** (405-409).

Diabrotica soror, local variation, KELLOGG (621-624) Science **24**.

Diachus subopacus **sp. n.** Arizona, SCHAEFFER (234) Brooklyn Mus. Bull. **1**.

Diamphidia concinna E. Africa **sp. n.**, WEISE (56) D. ent. Zs. Berlin **1906**.

Dilinsa fallax E. Africa **sp. n.**, WEISE T.c. (54).

Donacia clavareau Kjachta, JACOBSON (311) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**

Dunbrodyia **gen. n.** near *Jamesonia* (20), *nitida* **sp. n.** Cape Colony (21) pl. iii f. 5, JACOBY London Trans. ent. Soc. 1906.

Duriviera apicitaris = (*sublaevis*) (*pennis*) Jac.), JACOBY (51) T.c.

Entomoseclis adonidis food-plants, MAYET Feuille jeunes natural **36** (167).

Epitrix humeralis **sp. n.** Cincinnati, DURY Cincinnati Ohio J. Soc. **20** (251-256).

Ergana bicolor E. Africa, JACOBY (48) London Trans. ent. Soc. 1906, **sp. n.**

Eubraxis usambarica E. Africa **sp. n.**, WEISE (45) D. ent. Zs. Berlin **1906**.

Eupleenema **gen. r.** near *Ctactoenema*, *nigrita* **sp. n.** Cape Colony pl.

iii f. 4, JACOBY (22) London Trans. ent. soc. 1906.

Eusattodera **gen. n.** near *Luperodes*, *pini* **sp. n.** Arizona, SCHAEFFER (244) Brooklyn Mus. Bull. **1**.

Eutheca conradi E. Africa **sp. n.**, WEISE (55) D. ent. Zs. Berlin **1906**.

Exosoma (Malacosoma) sheppardi, *sturmi*, (30), *tongaensis* (31), **spp. n.**, Africa; *apicipenne* pl. iii f. 10, JACOBY London Trans. ent. soc. 1906.

Fidia vivida, natural history, FELT Albany Univ. Rep. St. Mus. **57** (1-51) pls. i-vi.

Garirga fasciata Bolivia, *peruana* Peru, **spp. n.**, WEISE (203) D. ent. Zs. Berlin **1906**.

Glyptina arizonica **sp. n.** Huachuca mts., SCHAEFFER (252) Brooklyn Mus. Bull. **1**.

Gonioetena variabilis, variation according to conditions, DONCASTER (528-536) London Proc. Zool. Soc. 1905 **2**.

Gonophora interrupta Dav., GESTRO Genova Ann. Mus. **42** (128-129).

Gynandrophthalma jacobyi **nom. n.** for *lacordairea* Jac. (45), *martini* **nom. n.** for *placida* Jac. (47), CLAVAREAU Gen. Ins. Fasc. **49**.—*G. polita* **sp. n.** E. Africa, WEISE (37) D. ent. Zs. Berlin **1906**.

Hallirhotius and allies, WEISE (53) T.c.

Haltica texana **sp. n.** Brownsville, SCHAEFFER (250) Brooklyn Mus. Bull. **1**.

Haplotes bifasciata Ogowé pl. iii f. 13, JACOBY (36) London Trans. ent. Soc. 1906, **sp. n.**—*Haplotes* cf. *Macrima*.

Hemixantha subrugosa Natal (37) pl. iii f. 18, *subconnectens* f. 16, *dilaticornis* f. 15, (38), Beira, *dilutipes* Natal (39) f. 17, JACOBY London Trans. ent. Soc. 1906, **spp. n.**

Hespera cinctella E. Africa **sp. n.**, WEISE (58) D. ent. Zs. Berlin **1906**.

Homophocta clavareau (398), *peruviana* (399) pl. xiv f. 2, *argus* f. 3, *angustolineata* f. 1, (591), S. America, JACOBY London Proc. zool. Soc. 1905 **2**, **spp. n.**

Hyperacantha silvana Gazaland (26), pl. iii f. 11, *obesa* Natal (27) f. 8, **spp. n.**, *flavodorsata* and *adusta* distinguished (28), JACOBY London Trans. ent. Soc. 1906.

Jamesonia sheppardi E. Africa, JACOBY T.c., **sp. n.**

Labidostomis bigemina var. n. *semideficiens*, PIC (19) Echange 22.—*L. sardoa* **sp. n.** Sardinia, JACOBSON Riv. Col. ital. 4 (30–31).

Lactica infuscata **sp. n.** Texas, SCHAEFFER (250) Brooklyn Mus. Bull. 1.

Lema elongata **sp. n.** East Africa, WEISE (35) *hirtipennis* Jac. = (*klugi* Jac. = *binominata* Clav.) (36), D. ent. Zs. Berlin 1906.—*L. hoffmannseggi* Iac. a valid species, REITTER (22) Entomol. Ztg. Wien 25.

Leptaulaca maculicollis Natal pl. iii f. 7, *labiata* E. Africa, JACOBY (29) London Trans. ent. Soc. 1906, **spp. n.**

Leptinotarsa; biology, evolution, Carnegie Inst. Publ. 48, *L. oblongata*, *intermedia*, *rubicunda*, **spp. n.**, Mexico, TOWER T.c. (6, 7).—*E. decemlineata* var. n. *texana*, SCHAEFFER (239) Brooklyn Mus. Bull. 1.

Lina and *Gastroidea*, breeding colour varr., McCracken J. exp. Zool. Baltimore 3 (331–336).

Longitarsus amabilis (12), *braunsi* (13), Cape Colony, JACOBY London Trans. ent. Soc. 1906, **spp. n.**—*L. femoralis*, neuer Schädl. der Runkelrube in Russland, VASILJEV Věst. sacharn. promysl. 7 (548–556, 589–595).

Luperodes californica **sp. n.** California, SCHAEFFER (245) Brooklyn Mus. Bull. 1.

Luperus thomsoni Sierra Leone, *semi-foreolatus*, (32), *incertus* (33) pl. iii f. 20, S. Africa, JACOBY London Trans. ent. Soc. 1906, **spp. n.**

Macrima africana to *Haplotes*, JACOBY (51) T.c.

Malacorhinus nigreseens **sp. n.** Utah, SCHAEFFER (248) Brooklyn Mus. Bull. 1.

Malacosoma pini **sp. n.** Arizona, SCHAEFFER (248) Brooklyn Mus. Bull. 1.

Malegia indica Pondichéry, PIC (5) Echange 22, **sp. n.**

Megalognatha sheppardi, *inconspicua*, E. Africa, (45), *weisei* Usam-

bara (47), JACOBY London Trans. ent. Soc. 1906, **sp. n.**

Monolepta camerunensis, *violaceipennis*, W. Africa, (40), *pygidialis* Natal, *zambesiana* Zambesi, (41), *selecta* (42), *beiraensis* (43), Beira, **spp. n.**, *atricornis* **nom. n.** for *nigricornis* Weise (44), JACOBY London Trans. ent. Soc. 1906. —*M. crucigera* **sp. n.** Arizona, SCHAEFFER (249) Brooklyn Mus. Bull. 1. —*M. ludicra* **sp. n.** E. Africa, WEISE (54) D. ent. Zs. Berlin 1906.

Nisotra weisei Beira pl. iii f. 2, *oneili* Cape Colony, JACOBY (21) London Trans. ent. Soc. 1906, **spp. n.**

Nodonota rotundicollis (237), *arizonica* (238), N. America, SCHAEFFER Brooklyn Mus. Bull. 1, **spp. n.**

Ochrosis natalensis Malvern, JACOBY London Trans. ent. Soc. 1906 (17), **sp. n.**—*O. pisana* var. n. *viridana*, *O. salicariae* var. n. *unicolor*, REITTER D. ent. Zs. 1906 (451).

Oedionychis rotundicollis, *paraguayensis*, (419), *nigrosuturalis*, *picifrons*, (420), *millepora*, *distincta*, (421), *apicicornis*, *sordida*, (422), *ecuadoriensis*, *rhodina*, (423), *pallescens*, *inconspicua*, *herbacea*, (424), *nigrotibialis*, *consimilis*, (425), *nigrimana* (426), *parallina*, *colombiana*, (427), *diversa*, *bisbinotata* pl. xv f. 8, (428), *variata*, *ingrata*, (429), *venezuelensis* (430), *centromaculata* f. 2 (431), *subcostata*, *motshulskyi*, *indigosoma*, (432), *intersignata*, *rustica*, (433), *catharinae*, *ocellata* pl. xv f. 10, (434), *humboldti*, *waterhousei*, (435), *exclamationis* f. 3, *interruptorittata* f. 6, (436), *bistrifasciata* (437), *informis*, *grayi*, (438), *arvata*, *bipartita*, (439), *illustris* (440) f. 11, *illigeri* (441), *imperialis*, *occipitalis*, (442), *acnea* (443), *regina* pl. xiv f. 12, *difficilis*, (444), *colombiana*, *succincta*, (445), *weisei*, *selecta*, (446), *cardinalis* (447), *fulvotibialis*, *rittatipennis*, (448), *adjuncta* pl. xv f. 12 (449), *cinctipennis*, *pallidicincta*, (450), *semiforcolata* f. 5, *flavomarginata* f. 9, (451), *bipunctulata*, *triloba*, (452), *basinotata* f. 4, *maculatissima* (453), *duodecimnotata* pl. xiv f. 11 (454), *subdilata* (455), *atropunctata*, *argentinensis*, (456), *nigropunctata* (457), *torquata*, *decora*, (458), *bicolorata*, *nigrobasis*, (459), *prominula* (460) pl. xv f. 1, S. America: *arcuatofasciata* (431), *donkieri* (449), *persimilis* (455), Mexico; JACOBY

London Proc. Zool Soc. 1905 **2**;
spp. n.

Oides sheppardi E. Africa, JACOBY
(26) London Trans. ent. Soc. 1906,
sp. n.

Orestia electra and *apennina* distin-
guished, WEISE (204) D. ent. Zs.
Berlin 1906.

Orina alpestris variation, REINECK
Zs. wiss. Insektenbiol. **2** (21-22).

Pachybrachys apicenotatus var. n.
multinotata, PIC (27) Echange **22**.—
P. bodemeyeri **sp. n.** Klein-Asien, WEISE
D. ent. Zs. **1906** (472).—*P. (Pachystilus)*
pentheri Asia Minor, GANGLBAUER (280)
Wien Ann. Hofmus. **20**, **sp. n.**

Pachytoma ruficeps E. Africa **sp. n.**,
WEISE (51) D. ent. Zs. Berlin **1906**.

Palacosastra **gen. n.** *Galerucinae* (2).
gracilicornis **sp. n.** New Guinea (3);
JACOBY Entomologist London **29**.

Papuania **gen. n.** position doubtful,
impressipennis **sp. n.** New Guinea,
JACOBY (3) T.c.

Paratriarius **gen. n.** type *Galeruca*
dorsata Say, SCHAEFFER (243) Brooklyn
Mus. Bull. **1**.

Paropsis hebe to *Pyrgo*, WEISE (204)
D. ent. Zs. Berlin 1906.

Pedrillia annulata var. n. *disconotata*,
PIC (27) Echange **22**.

Peploptera arcuata Dahomey (28),
pallipes Tanganika, *suturalis* Congo,
(29), CLAVAREAU Gen. Ins. Fasc. **49**,
spp. n.

Phygasia barkeri, *bicolorata*, S. Africa,
JACOBY (24) London Trans. ent. Soc.
1906, **spp. n.**

Phyllotreta maculicornis Syrie, *dis-*
inctipes (? *crassicornis* var.) Algérie,
PIC (35) Echange **22**, **spp. n.**—*P.*
weisei Cape Colony, JACOBY (13) pl. iii
f. 3 London Trans. ent. Soc. 1906,
sp. n.—*P. lindahli* **sp. n.** Cincinnati,
DRY Cincinnati Ohio J. Soc. **20**
(251-256).

Physonychis beiraensis E. Africa,
pl. iii f. 6, JACOBY (25) London Trans.
ent. Soc. 1906, **sp. n.**

Plagioderia erythroptera metamor-
phoses, BRUCH (317) pl. i Revist. Mus.
La Plata **11**.

Platyrantha (Haplotes) bicolor W.
Africa (35), *occipitalis* Natal pl. iii
f. 14 (36), JACOBY London Trans. ent.
Soc. 1906, **spp. n.**

Prasocuris phellandrii, larvae habits,
LOISELLE Fenille jeunes natural. **36**
(133-134).

Pseudocolaspis mombonensis (48),
nobilis (47), **spp. n.**, E. Africa, WEISE
D. ent. Zs. Berlin **1906**.

Psylliodes chrysocephala larvae and
habits, CARPENTER (152-155) pl. xi J.
econ. Biol. London **1**.

Sarinis subpubescens (221), *knausii*,
scutellaris, (222), N. America, **spp. n.**,
omogera var. n. *sinuata*, *saucia* var. n.
californica, (225); SCHAEFFER Brooklyn
N.Y. Mus. Bull. **1**.

Scelodonta vitticollis E. Africa **sp. n.**,
WEISE (43) D. ent. Zs. Berlin **1906**.

Schematizella viridis = (*Hystaspes*
dohrni Jac.), JACOBY (51) London Trans.
ent. Soc. 1906.

Spilocephalus apicalis Zambesi,
JACOBY (48) T.c., **sp. n.**

Stictocema **gen. n.** near *Schematizella*
(33), *maculicollis*, *fasciata* pl. iii f. 9,
(34), **spp. n.**, CAMEROONS, JACOBY T.c.

Systema pallicornis **sp. n.** Texas,
SCHAEFFER (252) Brooklyn Mus. Bull. **1**.

Thelyterotarsus fausti var. n.
armeniaca, PIC (35) Echange **22**.

Timareha coriaria Laich., eine
Literaturstudie, SEIDLITZ Entomol.
Ztg. Wien **25** (277-280).

Torodera fasciata = (*Amphimela*
ornata Jac.), JACOBY (25) London
Trans. ent. Soc. 1906.

Triachus peninsularis **sp. n.** Lower
California, SCHAEFFER (234) Brooklyn
Mus. Bull. **1** (234).

Trichaltica virescens **sp. n.** Arizona,
SCHAEFFER (251) T.c.

Trirhabda subcyanescens **sp. n.**
Texas, SCHAEFFER (241) T.c.

Uthlia **gen. n.** near *Nerissus* (44),
pardalis **sp. n.** E. Africa (45), WEISE
D. ent. Zs. Berlin **1906**.

Weiscana **gen. n.** near *Homichloda*
type *barkeri* Jac., JACOBY (23) London
Trans. ent. Soc. 1906.

Zygogramma arizonica sp. n.
Palmerlee, SCHAEFFER (240) Brooklyn
Mus. Bull. 1.

(*Coptocephala gebleri*, var. n. *inundata*, Turkestan, REITTER, Entomol. Ztg. Wien, 24, 1905, (251).)

(*Cryptocephalus vittula* Suffr. var. *lugubris* n. var., DEMAISON, Paris, Bul. soc. ent., 1904, (286-287).)

(*Lina lapponica*, heredity, McCracken, J. Exp. Zool., Baltimore, Md., 2, 1905, (117-136).)

(*Pachybrachis rugifer*, ABEILLE DE PERRIN, Paris, Bul. soc. ent., 1904, sp. n.)

(*Phyllotreta künemanni*, Dauphine, REITTER, Entomol. Ztg. Wien, 24, 1905, (251), sp. n.)

(*Phytodecta flavicornis infernalis*, *riminalis ruciplagiata*, varr. n., PENECKE, Entomol. Ztg., 20, 1901, (11-21).)

(*Semienema reitteri* Weise, Vorkommen in Ungarn und Bosnien, REITTER, Entomol. Ztg., Wien, 21, 1902, (1-9).)

HISPIDES AND CASSIDIDES.

Anisodera nigrolineata Malacca and Borneo (472), *longipennis* Tonchino (474), GESTRO Genova Ann. Mus. 42, spp. n.

Anoplitis gestroi Nicaragua, WEISE (238) T.c., sp. n.

Aspidomorpha candens, *crtli*, *häfligeri*, *obtusangula*, Ostafrika, spp. n., SPAETH D. ent. Zs. 1906 (399-403).

Brachispa, gen. n. near *Dicladispa* (488), *multispinosa* Transvaal sp. n. (489), GESTRO Genova Ann. Mus. 42.

Callispa limbata Fernando Po, GESTRO (504) T.c., sp. n.

Cassida; Biologie, Schädlichkeit. JARONOWSKI Rovart. L. Budapest 13 1906 (135-140, 157-162).—*C. manubialis*, *silphoides*, *decepiens*, *revulsa*, *punctipennis*, *gallarum*, *deplanata*, *fugax*, spp. n., Ostafrika, SPAETH D. ent. Zs. 1906 (385-396).—*C. suspiciosa* ab. n. *connexa*, WEISE (59) D. ent. Zs. Berlin 1906.—*C. suspiciosa* ab. n. *pieturala*, SPAETH D. ent. Zs. 1906.

Chalepus medius, metamorphoses, (325) pl. iii, BRUCH Revist. Mus. La Plata 11.

Cryptonychus; disposizione delle specie, GESTRO Genova Ann. Mus. Civ. 42 (132-134).—*C. discolor* (506), *leonardi* (508), *tenuirostris* (509), *crassirostris* (511), *cribricollis* (512), *brevicollis* (511), Africa occ., GESTRO Genova Ann. Mus. 42, spp. n.—*C. limbatus* to *Brontispa*, GESTRO (471) Genova Ann. Mus. 42; WEISE (34) D. ent. Zs. Berlin 1906.

Dactylispa dolichocera (525), *redunca* (526), *puncticollis* (527), *nigricornis* (529), *incredula* (531), *cavicollis* (533), Africa occ., GESTRO Genova Ann. Mus. 42, spp. n.

Dichirisa mashonana var. n. *kigonsensis*, WEISE (58) D. ent. Zs. Berlin 1906.

Dicladispa traversii Scioa (490), *striaticollis* (491), *poeciloptera* (493), Usambara, *peringueyi* (494), *formosa* (495), Transvaal, *tenuispina* Usambara (497), *platylada* Congo (499), GESTRO Genova Ann. Mus. 42, spp. n.

Distolaca nitida Sumatra, GESTRO, (477) T.c., sp. n.

Downesia bouchardi Sumatra, GESTRO, (480) T.c., sp. n.

Gonophora maculipennis Mindanao, GESTRO (475) T.c., sp. n.

Gyllenhalius macrorrhinus Kassai, GESTRO (470) T.c., sp. n.

Hispodonta bifasciata Batcian, GESTRO (469) T.c., sp. n.—*H. depressa* Nuova Guinea, GESTRO T.c. (130), sp. n.

Leptispa graminum Fernando Po, GESTRO (503) T.c., sp. n.

Macrispa saundersii hab. British Bootang, GESTRO (130) T.c.

Mierispa; catalogue (479), *bouchardi* sp. n. Sumatra (477), GESTRO T.c.

Microrhopala arizonica sp. n. Huachuca mts., SCHAEFFER (253) Brooklyn Mus. Bull. 1.

Oethispa (*Heptispa*) *solaris* Nicaragua, WEISE (241) Genova Ann. Mus. 42, sp. n.

Oncocephala angusticollis Niger, GESTRO (480) Genova Ann. Mus. (42), sp. n.—*O. cuneata* (517), *scabrosa* (518), Africa occ., GESTRO T.c., spp. n.

Orycephala speciosa var. = (*dilutipes* Weise), GESTRO (131) T.c.

Paradownesia fruhstorferi Tonchino, GESTRO (483) T.c., **sp. n.**

Philodonta **gen. n.**, *modesta* **sp. n.** Bengal, WEISE D. ent. Zs. **1906** (404).

Platypria andrewesi **sp. n.** Bombay, WEISE D. ent. Zs. **1906** (404).

Pleurispa weisci Togo, GESTRO (487) Genova Ann. Mus. **42**, **sp. n.**

Prionispa vetli Giava (484), *longicornis* Tenasserim (485), GESTRO T.c., **spp. n.**

Trichispa feac S. Thomé, GESTRO (536) T.c., **sp. n.**

Wellacea limbata Madras, GESTRO (468) T.c., **sp. n.**

(*Hiepa testacea*, LESNE, Paris, Bul. **soc. ent.**, **1904**, (68-70).

EROTYLIDAE.

Dacne fowleri characters, JOY (72) Ent. Rec. **1906**.

Hclota lesnei Chine, RITSEMA (196) Bull. Mus. Paris **12**, **sp. n.**—*H. jentinkii* **sp. n.** Sumatra, RITSEMA Leiden Notes Mus. Jentink **26** (223-225).—*H. rouyeri* **sp. n.** West-Sumatra, RITSEMA Leiden Notes Mus. Jentink **28** (131-133).

ENDOMYCHIDAE.

Sphaerosoma albanicum **sp. n.**, APFELBECK Wien SitzBer. Ak. Wiss. **115** Abt. I (1670).

(*Alexia formaneki* **sp. n.**, Herzegowina, Südbosnien, REITTER, Entomol. Ztg., Wien, **21**, 1902, (1-9, mit 1 Taf.).)

COCCINELLIDAE.

Die Aufenthaltsorte der Coccinelliden. MEISSNER Ent. Zs. Guben **20** (187-188).

Zucht von Coccinellidenlarven. MEISSNER. Insektenbörse Leipzig **23** 1906 (143-144).

Azya nigrina Brasilia, WEISE (198) Revist. Mus. La Plata **11**, **sp. n.**

Brachyacantha . *bruchii* Tucuman, WEISE (196) Revist. Mus. La Plata **11**, **sp. n.**

Callineda testudinaria, number of eggs, TERRY (12) Honolulu Proc. Hawai. ent. Soc. **1**.

Cephaloseymnus bruchi Brasilia, WEISE (198) Revist. Mus. La Plata **11**, **sp. n.**

Chilocoris insularis **sp. n.** Madagascar, WEISE (208) D. ent. Zs. Berlin **1906**.

Chnoodes tarsalis Brasilia, WEISE (197) Revist. Mus. La Plata **11**, **sp. n.**

Cleothera fasciata cf. Fabr. nec Muls., WEISE (34) D. ent. Zs. Berlin 1906.—*C. secessionis* Brasilia, WEISE (196) Revist. Mus. La Plata **11**, **sp. n.**

Coccinella septempunctata, SAJÓ Prometheus **17** (489-492, 506-509).

Cycloneda puncticollis var. *n. livida*, WEISE (195) Revist. Mus. La Plata **11**.

Epilachna cuprina, *ertli*, **spp. n.**, E. Africa, WEISE (60) D. ent. Zs. Berlin **1906**.

Exochomus kohlshutteri E. Africa **sp. n.**, WEISE T.c. (64).—*E. nigromaculatus*, THEOBALD Khartoum Rep. Wellcome Res. Lab. **2** (96).

Hyperaspis conclusa Tucuman, WEISE (197) Revist. Mus. La Plata **11**, **sp. n.**

Megatela **gen. n. subfam. n.** (159), *erotylodes* **sp. n.** Cameroons (160), WEISE D. ent. Zs. Berlin 1906.

Mulsantina **nom. n.** = *Cleis* Muls., WEISE T.c. (34).

Mysia gebleri and *oblongoguttata* distinguished, WEISE (326) T.c.—*M. oblongoguttata* L. ab. *n. atrata*, ENGERT D. ent. Zs. **1906** (464).

Neocalvia bruchi Tucuman, WEISE (194) Revist. Mus. La Plata **11**, **sp. n.**

Pharoseymnus **nom. n. pro** *Pharus* Muls., BEDEL (93) Paris Bull. Soc. ent. **1906**.

Pristonema humeralis Brazil **sp. n.**, WEISE (160) D. ent. Zs. Berlin **1906**.

Psyllobora parida Tucuman, WEISE (195) Revist. Mus. La Plata **11**, **sp. n.**

Seymnus jacobsoni **sp. n.** St. Petersburg, BAROVSKY Rev. russ. ent. **6** 1906 (8-9).

Solanophila haffigeri (63), *kaffiensis* (61), **spp. n.**, E. Africa, WEISE D. ent. Zs. Berlin 1906.—*S. bipunctata* (207), *laesa*, *hora*, (206), *4-punctata* (207),

Madagascar, **spp. n.**, WEISE T.c.—*S. cusema*, *punctatissima*, S. America, WEISE (193) *Revist. Mus. La Plata* **11**, 1904, **spp. n.**

(*Adalia bipunctata* var. n., PENECKE, *Entomol. Ztg.*, Wien, **20**, 1901, (11–21).)

(*Adonia variegata* var. n. *transsylvanica*, PENECKE, T.c.)

(*Coccinella decempunctata* var. n. *mediopunctata* Steiermark, PENECKE, T.c.)

(*Halysia 14-guttata* var. n. *econcolor*, PENECKE, T.c.)

†Fossil coleoptera. Incertae sedis.

HANDLIRSCH, *Fossil. Ins.*, (400–403), proposes the following new genera and species for fossil *Coleoptera* from Triassic strata, the systematic positions of which are doubtful:—

Eocoleopteron **gen. n.**, *roemeri* **sp. n.**, Trias. Deutschland (400).

Pseudochrysomelites **gen. n.** for *Chrysomelites rothenbachii* Heer, (400).

Pseudohydrophilites **gen. n.** for *Hydrophilites nathorstii* Heer, (400).

Pseudocureulionites **gen. n.** type *Cureulionites redtenbacheri*, HANDLIRSCH (399) *Fossil. Ins.*

Pseudobuprestites **gen. n.** (? wirklich eine Buprestide) for *Buprestites petrophylli* Heer, HANDLIRSCH (399) *Fossil. Ins.*

Pseudoclateropsis **gen. n.** doubtfully *Elateridae*, for *Elateropsis infraliassica* Roem., HANDLIRSCH (399) *Fossil. Ins.*

Parabuprestites **gen. n.** for *Buprestites rugulosus* Heer, (400).

Paracureulionites **gen. n.** for *Cureulionites parvulus* Heer, (401).

Nannocureulionites **gen. n.** for *Cureulionites carlsoni* Heer, (401).

Angelinella **gen. n.** for *Elytridium angelini* Heer, (401).

Heeriella **gen. n.** for *Elytridium laevigatum* Heer, (401).

Pseudocarabites **gen. n.** for *Carabites deplanatus* Heer, (401).

Flichea **gen. n.** for *Glaphyroptera lotharingiaca* Fliche, (402).

Etheridgea **gen. n.** for *E. australis* **sp. n.** Trias. Queensland, (402).

Pseudorhynchophora **gen. n.**, *olligæ* **sp. n.** Trias. Queensland, (402).

Ademosyne **gen. n.** (402), *minor* **sp. n.** (403) Trias. Queensland.

The following new genera and species of *Coleoptera*, from the Lias, are described by Handlirsch:—

Elaterophanes **gen. n.** for *Elater socius* Gieb. and *vetustus* Brodie, Lias England, HANDLIRSCH (436) *Fossil. Ins.*

Glaphyropterites **gen. n.** for *Glaphyroptera depressa* Heer, HANDLIRSCH (437) *Fossil. Ins.*

Glaphyropterodes **gen. n.** for *Glaphyroptera gehreti* Heer, HANDLIRSCH l.c.

Glaphynopterula **gen. n.** for *Glaphyroptera gracilis* Heer, HANDLIRSCH l.c.

Plastelater **gen. n.** for *Elater neptuni* Gieb., HANDLIRSCH (438) *Fossil. Ins.*

Parnidium frechi, *geinizi*, Lias Mecklenburg, HANDLIRSCH (438) *Fossil. Ins.*, **spp. n.**

Thoracotes **gen. n.** for *Nitidulites argoniensis* Gein., HANDLIRSCH (438) *Fossil. Ins.*

Proctobuprestis **gen. n.** for *Glaphyroptera brevicollis* Heer, HANDLIRSCH (439) *Fossil. Ins.*

Bellingropsis **gen. n.** for *Bellingera laticollis* Heer, HANDLIRSCH (440) *Fossil. Ins.*

Procarabites **gen. n.** for *Carabites bellus* Heer, HANDLIRSCH (440) *Fossil. Ins.*

Brodiola **gen. n.**, *nana* **sp. n.** Lias England, HANDLIRSCH (441) *Fossil. Ins.*

Plastonebria **gen. n.** for *Nebria sculdéri* Gein., HANDLIRSCH (444) *Fossil. Ins.*

Plastobuprestites **gen. n.** for *Buprestites elegans* Gein., HANDLIRSCH (444) *Fossil. Ins.*

Notokistus **gen. n.**, *brodiei* **sp. n.** Lias England, HANDLIRSCH (444) *Fossil. Ins.*

Hadrocephalus **gen. n.**, *anglicus*, *liasinus*, *minor*, **spp. n.**, Lias England, HANDLIRSCH (444) *Fossil. Ins.*

Colymbetopsis **gen. n.** for *Colymbetes arcuatus* Heer, HANDLIRSCH (445) *Fossil. Ins.*

Chrysomelopsis **gen. n.** for *Chrysomela andraci*, Gieb., HANDLIERSCH (445) Fossil. Ins.

Gyrinopsis **gen. n.** for *Gyrinites antiquus* Heer, HANDLIERSCH (446) Fossil. Ins.

Eurytucha **gen. n.**, *pseudobuprestis* **sp. n.** Lias Mecklenburg, HANDLIERSCH (446) Fossil. Ins.

Nannodes **gen. n.**, *pseudocistela* **sp. n.** Lias Mecklenburg, HANDLIERSCH (446) T.c.

Pseudocyphon **gen. n.**, *geinitzi* **sp. n.** Lias Mecklenburg, HANDLIERSCH (446) Fossil. Ins.

Anagyrius **gen. n.** for *Gyrinus atavus* Heer, HANDLIERSCH (447) Fossil. Ins.

Paragyrius **gen. n.** for *Gyrinus dubius* Gieb., HANDLIERSCH (448) Fossil. Ins.

Phaulegyrius **gen. n.** for *Gyrinites minimus* Heer, HANDLIERSCH (448) T.c.

Coptogyrius **gen. n.**, *scutellatus* **sp. n.** Lias Mecklenburg, HANDLIERSCH (449) T.c.

Xenogyrius **gen. n.** for *Gyrinus natans* Brodie, HANDLIERSCH (449) T.c.

Mimelater **gen. n.** for *Elater angulatus* Gieb., HANDLIERSCH (449) T.c.

Adynasia **gen. n.** for *Buprestites lyellii* Heer, HANDLIERSCH (449) T.c.

Kalensticus **gen. n.** for *Buprestites zirkeli* Gein., HANDLIERSCH (450) T.c.

Allognosis **gen. n.** for *Nebria nitens* Gein., HANDLIERSCH (450) T.c.

Dinoharpalus **gen. n.** for *Harpalus liasinus* Gieb., HANDLIERSCH (450) T.c.

Anepismus **gen. n.** for *Elater vanus* Gieb., HANDLIERSCH (450) T.c.

Enamma **gen. n.**, *striatum* **sp. n.** Lias Mecklenburg, HANDLIERSCH (451) T.c.

Stigmenamma **gen. n.** for *Harpalus heeri* Gieb., HANDLIERSCH (451) T.c.

Steneltron **gen. n.** for *Elater redtenbacheri* Gieb., HANDLIERSCH (451) T.c.

Dysarectus **gen. n.** for *Elaterites retusus* Heer, HANDLIERSCH (451) T.c.

Smudicoptera **gen. n.** for *Euchroma liasina* Heer, HANDLIERSCH (452) T.c.

Melanophilopsis **gen. n.** for *Melanophila costata* Heer, HANDLIERSCH (452) T.c.

Melanophilites **gen. n.** for *Melanophila sculptilis* Heer, HANDLIERSCH (453) T.c.

Holcoptera **gen. n.** for *Harpalus schlottheimi* Gieb., HANDLIERSCH (453) T.c.

Holcoëlytrum **gen. n.** for *Harpalus schlottheimi* Gieb., HANDLIERSCH (453) T.c.

Pseudoprionites **gen. n.** for *Prionus liasinus* Gein., HANDLIERSCH (453) T.c.

Pseudotelephorus **gen. n.** for *Telephorus haueri* Gieb., HANDLIERSCH (454) T.c.

Carabites *geinitzi* Lias Mecklenburg, HANDLIERSCH (455) T.c.

Nebrioides **gen. n.** for *Nebria dobbertinensis* Gein., HANDLIERSCH (455) T.c.

Paraecureulium **gen. n.** for *Cureulionites punctatus* Gein., HANDLIERSCH (455) T.c.

Anhydrophilus **gen. n.**, *broidiei* **sp. n.** Lias England, HANDLIERSCH (455) T.c.

Gyrinulopsis **gen. n.**, *nanus* **sp. n.** Lias Mecklenburg, HANDLIERSCH (455) T.c.

Polypamon **gen. n.** for *Cistelites byrrhoides* Gein., HANDLIERSCH (456) T.c.

Bathergus **gen. n.** for *Cistelites bellus* Gein., HANDLIERSCH (456) T.c.

Hydrobiites *anglicus*, *giebeli*, Lias England, HANDLIERSCH (456) T.c., **spp. n.**

The following new genera and species are described by HANDLIERSCH from Jurassic strata.

Mamelater **gen. n.** for various jurassic forms ? *Elateridae*, HANDLIERSCH (541) Fossil. Ins.

Pseudothyrea **gen. n.** *Elateridae*?, *oppenheimi* **sp. n.** Kalk Bayern, HANDLIERSCH (541) Fossil. Ins.

Eurythyreites **gen. n.**, ? *Buprestidae* for *Eurythyrea grandis* Deichm., HANDLIERSCH (542) Fossil. Ins.

Pyrochroophana **gen. n.** for *Pyrochroa brevipes* Deichm., *P.?* *major* Kalk Bayern **sp. n.** HANDLIERSCH (542) T.c.

Helophoropsis **gen. n.**, nec *Hydrophiliidae*, for *Helophorus brodiei* Gieb., HANDLIERSCH (543) T.c.

Sphaerodemopsis **gen. n.** for *Sphaerodema jurassicum* Opp., HANDLIERSCH (543) T.c.

Opsis **gen. n.**, *bararica* **sp. n.** Kalk Bayern, HANDLIERSCH (544) T.c.

Geotrupoides gen. n. for *Geotrupes lithographicus* Deichm., HANDLIERSCH (545) T.c.

Amarodes gen. n. for *Amara pseudo-zabrus* Deichm., HANDLIERSCH (545) T.c.

Chalepocarabus gen. n. for *Carabus elongatus* Brodie, HANDLIERSCH (546) T.c.

Cerylonopsis gen. n. for *Cerylon striatum* Brodie, HANDLIERSCH (547) T.c.

Parasilphites gen. n. for *Silphites angusticollis* Opp., HANDLIERSCH (547) T.c.

Procalosoma major, minor, spp. n. Kalk Bayern, HANDLIERSCH (548) T.c.

Chlaeniopsis gen. n. for *Chlaenius solitarius* Deichm., HANDLIERSCH (548) T.c.

Chrysomelophana gen. n. for *Chrysomela rara* Weyenb., HANDLIERSCH (549) T.c.

Scaphidiopsis gen. n. for *Scaphidium hageni* Weyenb., HANDLIERSCH (550) T.c.

Prochrysomela gen. n. for *Chrysomelites jurassicus* Opp., HANDLIERSCH (550) T.c.

Pseudotenebrio gen. n. for *Tenebrio innominatus* and *Hister relictus* Weyenb., HANDLIERSCH (550) T.c.

Microcoleopteron gen. n. for *Chrysomelites minimus* Opp., HANDLIERSCH (550) T.c.

Apiaria oppenheimi Kalk Bayern, HANDLIERSCH (552) T.c., sp. n.

Halticophana gen. n., *westwoodi* sp. n. Purbeck England, HANDLIERSCH (552) T.c.

Anapiptus gen. n., *brodiei* sp. n. Purbeck England, HANDLIERSCH (552) T.c.

Paragrillum gen. n. for *Elaterium barypus* Westw., HANDLIERSCH (553) T.c.

Metagrillum gen. n., *westwoodi* sp. n. Purbeck England, HANDLIERSCH (553) T.c.

Micrelaterium gen. n. for *Elaterium triopas* Westw., HANDLIERSCH (554) T.c.

Parabuprestium gen. n. for *Buprestium teleas* Westw., HANDLIERSCH (554) T.c.

Ctenicerium gigas Purbeck England, HANDLIERSCH (555) T.c., sp. n.

Doggeria gen. n., *sibirica* Sibirien *Dogger, murchisoni* England Stones-
(x-9720 j)

field slate, spp. n., HANDLIERSCH (555) T.c.

Doggeriopsis gen. n., *stonesfieldiana* sp. n. England Stonesfield slate, HANDLIERSCH (556) T.c.

Paradoggeria gen. n., *acuminata* sp. n. England Stonesfield slate, HANDLIERSCH (556) T.c.

Bucklandula gen. n., *striata* sp. n. England Stonesfield slate, HANDLIERSCH (556) T.c.

Kelidus gen. n. for *Buprestium bolbus* Westw., HANDLIERSCH (556) T.c.

Glaphoptera gen. n., *anglica* sp. n. England Stonesfield slate, HANDLIERSCH (557) T.c.

Prionophana gen. n. for *Prionus antiquus* Westw., HANDLIERSCH (557) T.c.

Lamiophanes gen. n. for *Lamia schroeteri* Gieb., HANDLIERSCH (557) T.c.

Xylotupia gen. n., *brodiei* sp. n. England Stonesfield slate, HANDLIERSCH (557) T.c.

Mimema gen. n., *punctatum* sp. n. England Stonesfield slate, HANDLIERSCH (557) T.c.

Adikia gen. n., *punctulata* sp. n. England Stonesfield slate, HANDLIERSCH (558) T.c.

Katapiptus gen. n., *striolatus* sp. n. England Stonesfield slate, HANDLIERSCH (558) T.c.

Lothroptera gen. n. for *Curculionites westwoodi* Gieb., HANDLIERSCH (558) T.c.

Zygadenia gen. n. for *Curculionites tuberculatus* Gieb., HANDLIERSCH (558) T.c.

Ironicus gen. n. for *Harpalidium nothrus* Westw., HANDLIERSCH (558) T.c.

Diatarastus gen. n. for *Carabus westwoodi* Gieb., HANDLIERSCH (559) T.c.

Hydroporopsis gen. n. for *Hydroporus enptuni* Gieb., HANDLIERSCH (559) T.c.

Apistotes gen. n. for *Elater purbeckensis* Gieb., HANDLIERSCH (559) T.c.

Biadelater gen. n. for *Elater werneri* Gieb., HANDLIERSCH (559) T.c.

Kibdelia gen. n. for *Prionus ooliticus* Brodie, HANDLIERSCH (559) T.c.

Pallax **gen. n.**; *prerosti* **sp. n.** England Stonesfield slate, HANDLIERSCH (560) T.c.

Pachycoleon **gen. n.** for *Buprestium woodlei* Westw., HANDLIERSCH (560) T.c.

Pseudocymindis **gen. n.** for *Cymindis antiqua* Gieb., HANDLIERSCH (560) T.c.

Tentyridium dilatatum Purbeck England, HANDLIERSCH (561) T.c., **sp. n.**

Kakoselia **gen. n.** for *Camtodontus angliae* Gieb., HANDLIERSCH (561) T.c.

Epomenus **gen. n.**, *rugosus* **sp. n.** Purbeck England, HANDLIERSCH (562) T.c.

Stictulus **gen. n.**, *brodiei* **sp. n.** Purbeck England, HANDLIERSCH (562) T.c.

Harpalomimes **gen. n.** for *Harpalus burmeisteri* Gieb., HANDLIERSCH (562) T.c.

Prosthenostictus **gen. n.** for *Crypticus angerei* Gieb., HANDLIERSCH (562) T.c.

Tychon **gen. n.** for *Helophorus antiquus* Gieb., HANDLIERSCH (563) T.c.

Memptus **gen. n.**, *braueri*, *redtenbacheri*, **spp. n.**, Siberia Dogger, HANDLIERSCH (563) T.c.

Pseudus **gen. n.**, *purbeccensis* **sp. n.** England, HANDLIERSCH (563) T.c.

Pantodapus **gen. n.** for *Harpalus ewaldi* Purbeck England **sp. n.**, HANDLIERSCH (464) T.c.

Helopidium rugosum, *dubium*, Purbeck England, HANDLIERSCH (565) Fossil. Ins., **spp. n.**

Kamaroma **gen. n.**, *breve* **sp. n.** Purbeck England, HANDLIERSCH (565) T.c.

Katapontisus **gen. n.** for *Elmis brodiei*, HANDLIERSCH (565) T.c.

Semiglobus **gen. n.** *jurassicus*, *chryso-melinus*, **spp. n.**, Purbeck England, and *Coccinella neptuni* Gieb., HANDLIERSCH (566) T.c.

Coccinellophana **gen. n.**, *murchisoni* **sp. n.** England Stonesfield slate, HANDLIERSCH (566) T.c.

Prophasis **gen. n.** for *Chrysomela ignita* Gieb., HANDLIERSCH (566) T.c.

Hyperomima **gen. n.** for *Hypera antiqua* Gieb., HANDLIERSCH (567) T.c.

HYMENOPTERA.

Spolia hymenopterologica, SCHULZ, (iii + 356) 1 Taf. The larger part of this work is entitled "Strandgut," and consists of annotations on Dalla Torre's *Catalogus Hymenopterorum*. We have recorded all the new names, but not the other corrections and notes, which are very numerous.

Catalogue of Philippine Hymenoptera. BROWN Philippine J. Sci. Manila 1 1906 (683-695).

APIDAE.

Morphology and biology of solitary bees, SEMICHON (281-442) Bul. Sci. France Belgique Paris 40, plates xiii-xv.

Visual memory of bees, GRAENICHER Milwaukee Bull. Wis. Nat. Hist. Soc. 4 1906 (135-142).

Bees of Australia, peculiarities, COCKERELL (439) Nature 73.

Acanthopus excellens, doubtful synonymy, SCHROTTKY (117) Zs. Hymenopter Teschendorf 6.

Agapostemon ruficollis **sp. n.** Costa Rica, CRAWFORD (162) Philadelphia Trans. Amer. Ent. Soc. 32.

Allodapa mirabilis **sp. n.** Kamerun, SCHULZ (245) *Spolia hymenopt.*

Andrena; Swiss species, continuation of tables and notes, FREY-GESSNER Hym. Helvet. 3 (277-340).—A., Smith's N. American species, COCKERELL 6-10, 33-37 Psyche 13.

A. gentianae **sp. n.** Canigou, [but T.c. (179) is *tarsata* Nyl.], VACHAL Paris Bul. soc. ent. 1906 (131-134).—*A. cyanophila* (431), *mieranthophila* (432), *ribesina* (433), *topazana*, *runcinatae*, (434), *lewisii*, *fragiliformis*, (435), *synthyridis*, *siererti*, (436), *lappulae* (437), *colletina* (454), **spp. n.**, Colorado, *vicina argentiniae* subsp. n. (432), COCKERELL New York Bull. Amer. Mus. Nat. Hist. 22.—*A. sepulta* (44), *A. (?) clarula* (45), Colorado, COCKERELL Cambridge Mass. Bull. Mus. Harvard 50, **spp. n.**—*A. johnsoniana* New Mexico, *wilmattae* Colorado, COCKERELL (224) Ann. Mag. Nat. Hist. ser. 7 17, **spp. n.**—*A. (Trachandrena) perforatella* (306), *A. (Pterandrena) gardineri* (307), *A. lupinorum* (308), *pyrura* (309), *edviniae*

(310), Colorado; COCKERELL T.c., **spp. n.** — *A. birtwelli* redescribed, COCKERELL (310), T.c. — *A. nigrifluta* **n.n.** for *nigrifluta* Morawitz nec Fabr., COCKERELL (74) Op. cit. **18**. — *A. metallescens* **nom. n.** for *metallica* Rad., COCKERELL (166) Canad. Entomol. **38**.

† *Anthidium scudderi*, *exhumatum*, Florissant, COCKERELL (38) Cambridge Bull. Mus. Harvard **50**, **spp. n.** — *A. repetitum* **nom. n.** für *A. integrum* Friese 1905, SCHULZ (263) Spolia hymenopt.

Anthoglossa aureotincta W. Australia, COCKERELL (16) Entomologist London **29**, **sp. n.**

Anthophora fedorica Texas (70), *anstrutheri* California (71), *arthuri* Colorado, *abruptella* California, (72), **spp. n.**, COCKERELL Philadelphia Trans. Amer. Ent. Soc. **32**.

Anthophoridae; catalogue and revision of North American, COCKERELL T.c. (63–116).

Anthrena dubiosa Asia Minor, KOHL (286) Wien Ann. Nat. Hist. Hofmus. **20**, **sp. n.** — *A. commutata* **nom. n.** für *gravida* Dours, *reclamata* **nom. n.** für *coarctata* Pérez, SCHULZ (241) Spolia hymenopt.

Apis; monograph (including reprint of Gerstaecker's 1862 paper); *A. meliponoides* **sp. n.** in amber (158); *A. mellifica* varr. *n. lehzeni* (184), *unicolor-intermissa* (187), *unicolor-friesei* (188), *indica-koschewnicovi* (192), *indica-picea* (193), BUTTEL-REEPEN Berlin Mitt. zool. Mus. **3**.

Apis; the species and their distribution, *A. indica* F. var. *javana* n., *A. florea* F. var. *fusca* n. and var. *sumatrana* n., ENDERLEIN (331–344) Stettiner ent. Ztg. **67**.

Apis; Arten und Rassen und deren Berichtigung, KOSHEVNIKOV Věst. Obšč. pčelovod. **13** (99–106); *A. dorsata binghami* **nom. n.** for *zonata* Sm., *mellifera lamarekii* **nom. n.** for *fasciata* Latr., COCKERELL (166) Canad. Entomol. **38**; *A. mellifica*; Das Buch von der Biene, WITZGALL Stuttgart 1906 (x + 580); habits, PHILLIPS Pennsylvania Rep. Dept. Agric. Harrisburg **11** (679–691).

Leben der Bienen, BOHM, Leipziger Bienenztg. **21** (130–133, 149–150); Nidification à l'air libre, BOUVIER Paris (x–9720 j)

Ann. soc. ent. **75** 1906 (429–444) plates xviii–xx; also Paris C.-R. Acad. sci. **142** 1906 (1015–1020). — Division du travail, abeille, BONNIER (941–946) Paris C.-R. Acad. Sci. **143**.

Bau der Waben, Gründe für das Schwärmen, RISCHE Russ. pčelovod. listok **19** (390–393). — Schwärmen, DICKEL D. ill. Bienenztg **23** (86–88, 103–105, 120–123, 135–137, 149–150, 163–165, 179–183); DIATSCHENKO Zs. wiss. Insektenbiol. Museum **2** 1906 (285–288). — Entgegnung darauf v. H. v. Buttel-Reepen ebenda (359–361). — Künstliche Schwärme, BRUKSCH Russ. pčelovod. listok **19** (394). — Abhängigkeit des Schwärmens von der Fruchtbarkeit der Königin und der Ausgiebigkeit der Tracht., DÍÁČENKO Russ. pčelovod. listok **21** (11–17, 42–47). — Länge des Rüssels, KULAGIN Zool. Anz. **29** (711–716) and **30**, (162). — Wachsdrüsen, ARNHART Zool. Anz. **30** (719–720). — Circulation of blood, ARNHART, Zool. Anz. **30** (721–722). — Athmungsorgane, Lantausserungen, DÍÁČENKO Moskva Ann. Inst. agron. **12** (1–14). — Erkennungsvermögen durch den Geruchssinn, KONDRATENKO Russ. pčelovod. listok **21** (17–18). — Einfluss des Kunstwaben auf Grösse, etc., GOLITSYN Russ. pčelovod. listok **21** (75–82, etc., etc.). — Odeur, FORESTIER Abeille et sa culture Huy 1905 (231–232, 248–251). — Drohnen keine Wärmeerzeuger, DÍÁČENKO Russ. pčelovod. listok **19** (394). — Königinzucht, BRÜNNICH Leipziger Bienenzeitung **21** 1906 (3–5); Bemerkung dazu v. H. Mulot l.c. (99–100) u. Erwiderung d. Verf. (115–116). — Gegenseitige Hilfeleistung, SMIRNOV Russ. pčelovod. listok **21** (353–355). — Spermatogenesis, DONCASTER Anat. Anz. **29** (490–491). — Wiederholte Begattung der Königin, SMIRNOV Russ. pčelovod. listok **21** (301–303). — Parthenogenese und Hervorbringung des Geschlechts, (Russ.), SMIRNOV Kazan' Trd. Obšč. pčelovod. **1** **2**, (9–18). — Verbesserung der Rasse durch künstliche Auslese, BUTKVIČ Russ. pčelovod. listok **21** (47–51, 78–74, 113–115). — Mathematische Betrachtungen über den Bau der Zelle, BÉLJAVSKIJ Věst. Obšč. pčelovod. **13** (76–79).

Augochlora ferrida (= *chorisis* Vach.), COCKERELL (162) Canad. entomol. **38**.

Augochloropsis (*Paraugochloropsis*) *celeno* Paraguay, SCHROTKY (30) An.

cient. Paraguay 1 No. 6, **sp. n.**—*A. (Paraugochloropsis subg. n.) lycorias* Paraguay, *A. (Pseudaugochloropsis subg. n.) s'hena* Argentina (313), *euryala* Paraguay, (314), SCHROTTKY Zs. Hymenopter 6, **spp. n.**

Biglossa, **gen. n.** near *Colletes* and *Andrena* (374), *thoracica*, *laticeps*, (376), *similis* (377), *chalybaea*, *caeruleescens*, (378), *aenea*, *armata*, (379), **spp. n.**, Argentina and Chile, FRIESE Zs. Hymenopter 6.

Bombus; Psychologie, Nestbau, Rückkehr. etc., WAGNER Zoologica II. 46 I (= Bd 19, Lfg 2), 1906 (iii + 78, Taf.).—Routes, etc., SUNDVIK (156-160) Helsingfors Medd. Soc. Fauna Fl. Fenn. 32.—Ethologie, LIE-PETTERSEN (42) Bergens Mus. Aarb. 1906 No. 9 (42); and (193-213), Bergen Naturen 30.—*B. deuteronymus* **nom. n.** für *senilis* F. Sm. 1879, SCHULZ (267) Spolia hymenopt.—*B. ephippiatus lateralis* = (*leucomelas* Cr. and Sw.), habitat, CRAWFORD (157) Philadelphia Pa. Trans. Amer. ent. Soc. 32.—*B. ferridus* copula, FAIRCHILD and BARRETT Washington D.C. Proc. Ent. Soc. 3 (13-14).—*B. haemorrhoidalis*, habits in India, BURKILL Calcutta J. As. Soc. 2 (521-525).—*B. iridis phacelia* subsp. n., COCKERELL (160) Canad. Entomol. 38.—*B. kohli* **n. n.** for *carbonarius* Händl., COCKERELL (75) Ann. Mag. Nat. Hist. ser. 7 18.—*B. lapidarius* mit abnormem Flügelgeäder, TARNANI Novo. Aleksandrija Zap. Inst. selisk. choz. 18 (106-134).—*B. terrestris*, migration and return, LUCKHAM (65) Entomologist 1906.

†*Calyptapis* **gen. n.** *Anthophoridoe* (41), *florissantensis* **sp. n.** Colorado (42), COCKERELL Cambridge Mass. Bull. Mus. Comp. Zool. Harvard Coll. 50.

Camptopocum chilense (173) Chile, *flaviventre*, *steinbachi*, (174), *minutum* (175), Argentina, **spp. n.**, FRIESE Zs. Hymenopter 6; cf. also *Liopocum*.

Caupolicana steinbachi, *ruficollis*, Argentina, **spp. n.**, *fulvicollis* var. n. *egregia*, FRIESE (229) Zs. Hymenopter. 6.—*C. albicollis* **sp. n.** Argentina, SMITH (57) Ent. News 17.

Centris morsei marginata; *C. otripes* = (*foxi* Friese); COCKERELL (72) Ann. Mag. Nat. Hist. ser. 7 18.—*C. friesei* **sp. n.** Costa Rica, CRAWFORD (158) Philadelphia Pa. Trans. Amer. Ent.

Soc. 32.—*C. posso-grandensis* characters. SCHROTTKY (118) Zs. Hymenopter Teschendorf 6.

†*Ceratina disrupta* **sp. n.** Florissant, COCKERELL (37) Cambridge Mass. Bull. Mus. Comp. Zool. Harvard Coll. 50.

Chalicodoma caementaria Meinecke = (*muraria* auctt.), COCKERELL (316) Ann. Mag. Nat. Hist. ser. 7 17.

Coelioxys; monograph of Spanish, DESMET Madrid Bol. Soc. espan. 6 (134-151).—*C. sumatrana* (253), *lipotaxis* (255), **spp. n.**, Sumatra, ENDERLEIN Stettiner ent. Ztg. 67.—*C. melanopus* **nom. n.** für *nigripes* Friese 1905, *postponendus* **nom. n.** für *simplex* Friese 1904, *recusatus* **nom. n.** für *convergens* Friese 1904, SCHULZ (265) Spolia hymenopt.

Colletes clypeonitens California (39), *petalostemonis*, *solidaginis*, Nebraska, (40), *ochraceus* California, *rufithorax* N. Jersey (42), *pulcher* Texas (43), **spp. n.**, *brachycerus* **nom. n.** for *brevicornis* Perez (44), SWENK Canad. Entomol. 38.—*C. salicicola geranii* subsp. n., *tucsonensis* **sp. n.** Arizona, COCKERELL (163) Canad. Entomol. 33.—*C. siererti* (424), *florissantia*, *polemonii*, (425), Colorado, COCKERELL New York Bull. Amer. Mus. 22, **spp. n.**—*C. hesperius*, *crawfordi*, (257), *lacustris* (258), *pleuralis*, *birkmanni*, (259), United States, SWENK Ent. News 17, **spp. n.**—*C. andrewsi* (311), *opuntiae* (312), *hydrophilus* (313), *phaceliae* (315), Colorado; COCKERELL Ann. Mag. Nat. Hist. ser. 7 17, **spp. n.**—*C. kincaidii* ♂, COCKERELL (314) T.c.

Crocisa praevalens Asia Minor, KOHL (243) Wien Ann. Hofmus. 20, **sp. n.**—*C. fallibilis* Südarabia, KOHL (20) Hym. Südarab., **sp. n.**—*C. frieseana* **nom. n.** for *aira* Fr., COCKERELL (166) Canad. Entomol. 38.—*C. forbesii* Kirby to *Nomia*, KOHL (11) Hym. Südarab.

Ctenoplectra, *chalybea* and *ragans*, COCKERELL (360) Ann. Mag. Nat. Hist. ser. 7 17.

Cyphomelissa pernigra and *Melissa diabolica* doubtfully distinguished, SCHROTTKY (116) Zs. Hymenopter. Teschendorf 6.

Dasypoda spinigera Asia Minor, KOHL (237) Wien Ann. Nat. Hist. Hofmus. 20, **sp. n.**—*D. illegalis* **nom. n.**

für *minor* Pérez 1902-3, SCHULZ (242) *Spolia hymenopt.*

Dialictus costaricensis sp. n. Costa Rica, CRAWFORD (163) Philadelphia Trans. Amer. Ent. Soc. 32.

†*Dianthidium tertiarium* sp. n. Florissant, COCKERELL (39) Cambridge Bull. Mus. Harvard Coll. 50.

Epeoloides septemnotata ♀, FRIESE (172) Zs. Hymenopter. 6.

Eucera (*Macrocera*) *pumigera* Asia Minor, KOHL (235) Wien Ann. Nat. Hist. Hofmus. 20, sp. n.—*E.* (*Macrocera*) *odontophora* S. Arabia, KOHL (8) Hymen. Südarab., sp. n.—*E.* (*Tetralonia*) *herbsti*, *E. nigriceps*, Chile, spp. n., FRIESE (171) Zs. Hymenopter. 6.

Eulaema nec *Eulma*, COCKERELL (166) Canad. Entomol. 38.

Euryglossa ichneumonoides, W. Australia, COCKERELL (17) Entomologist London 29, sp. n.

Eraerete smaragdina, habits, DUCKE (18) Zs. wiss. Insektenbiol. 2.

Exomalopsis snovi Texas, COCKERELL (73) Ann. Mag. Nat. Hist. Ser. 7 18, sp. n.—*E. caerulea* Chile (169), *longicornis* Argentina, *herbsti* Chile, (170), spp. n., FRIESE Zs. Hymenopter. 6.

Gastropsis victorae S. Australia, COCKERELL (15) Entomologist London 29, sp. n.

Greeleyella beardleyi ♂, COCKERELL (164) Canad. Entomol. 38.

Halictoides schmiedeknechti Asia Minor, KOHL (240) Wien Ann. Hofmus. 20, sp. n.—*H. harveyi* New Mexico, COCKERELL (223) Ann. Mag. Nat. Hist. Ser. 7 17, sp. n.—*H. fallugiae* New Mexico, COCKERELL (359) T.c., sp. n.

Halictus; its subgenera (394, 395); *postscutellaris* (395), *H.* (*Corymbura*) *anthidioides*, *inflaticeps*, (397), *banaræ*, *hemidisdiae*, *polybioides*, (398), *erotonis*, *dijficillimus*, (399), Brazil, DUCKE Zs. Hymenopter. 6, spp. n.—*H.* (*Lucasius*) *holtzi* Creta, SCHULZ (49) *Spolia Hym.*, sp. n.—*H. anellus*, *metopias*, (238), *patulus*, *tenuiceps*, Asia Minor, *uncinus* Bussara (?), (239), VACHAL Wien Ann. Hofmus. 20, spp. n.—*H. atroviridis* sp. n. Cape Town, CAMERON Trans. S. Afric. Phil. Soc. 16 (325).—*H. warburtoni*, *mittelli*, *burkei*, Tasmania, (58), *willsi* Australia, *sturti*, *leichardti*, (59),

forresi (60), Queensland, COCKERELL Entomologist London 1906, spp. n.—*H. arapahonum* Colorado, COCKERELL (316) Ann. Mag. Nat. Hist. Ser. 7 17, sp. n.—*H. swenki* sp. n. Nebraska, CRAWFORD Ent. News 17 (275-276).—*H.* (*Erylcus*) *synthyridis* (427), *H.* (*Chloralictus*) *scrophulariæ* (428), Colorado, COCKERELL New York Bull. Amer. Mus. 22, spp. n.—*H. fedorensis*, *robertsoni*, (4), *birkmanni*, *lineatulus*, (5), *pecosensis* (6), N. America, CRAWFORD Canad. Entomol. 38, spp. n.—*H. pruiniformis* Texas, CRAWFORD (284) T.c., sp. n.—*H. rachali* Oregon (300), *cooley* Montana (301), *cordleyi* Oregon (302), *atriventris* Brit. Columbia (303), CRAWFORD T.c., spp. n.—*H. indistinctus* sp. n. Costa Rica, CRAWFORD (163) Philadelphia Trans. Amer. Ent. Soc. 32.—*H. konowi* sp. n. Peru (80), DUCKE Zs. Hymenopter. 7.

†*H. florissantellus*, *scudderellus*, Florissant, COCKERELL (43) Cambridge Mass. Bull. Mus. Comp. Zool. Harvard Coll. 50, spp. n.

†*Heriades laminarum*, *halictinus*, (40), *bowditchi* (41), Florissant, COCKERELL Cambridge Mass. Bull. Mus. Comp. Zool. Harvard Coll. 50, spp. n.

Homalictes gerstaeckeri nom. n. für *diclous* F. Sm. 1854, SCHULZ (267) *Spolia hymenopt.*

Hylacosoma ashmeadi sp. n. Costa Rica, CRAWFORD (161) Philadelphia Trans. Amer. Ent. Soc. 32.

Koptorthosoma; the acarid chamber, GREEN and OUDEMANS's Gravenhage Tijdschr. Ent. 49 Versl. (1).

†*Libellulapis* gen. n. *Andrenidae*, *antiquorum* sp. n. Colorado, COCKERELL (42) Cambridge Bull. Mus. Comp. Zool. Harvard Coll. 50.

Liopocum subgen. n. (*Camptopocum*) for *hirsutulum* etc., FRIESE (176) Zs. Hymenopter. 6.

†*Lithandrena* gen. n. *Andrenidae*, *savorum* sp. n. Colorado, COCKERELL (44) Cambridge Bull. Mus. Harvard 50.

Lithurgus laticeps sp. n. Argentina, FRIESE (176) Zs. Hymenopter. 6.

Macroglossapis cockerelli, *nigravillosa*, Costa Rica, CRAWFORD (160) Philadelphia Pa. Trans. Amer. Ent. Soc. 32, spp. n.

Megachile naevia Sokótra (15), *M. (Chalicodoma) heinii* S. Arabia (19), KOHL Hym. Südarab., **spp. n.**—*M. harri-soni* Sumatra, COCKERELL (368) Ann. Mag. Nat. Hist. ser. 7 **17**, **sp. n.**—*M. doddiana* (530), *suffusipennis*, *fulro-marginata*, (531), *atrella* (532), *hampsoni* (533), *waterhousei*, *quinguelineata*, (534), *nigrovittata*, *darwiniana*, (535), *cygnorum* (536), *gahani*, *kirbyana*, (537), *tomentella* (538), *rhodura*, *austeni*, (539), Australia, COCKERELL Ann. Mag. Nat. Hist. ser. 7 **17**, **spp. n.**—*M. opuntiarum* Colorado, COCKERELL (229) T.c., **sp. n.**—*M. giliae* **sp. n.** Colorado (452), *wootoni rohweri* subsp. n. (453), COCKERELL New York Bull. Amer. Mus. **22**.

Megaloptella **subg. n.** of *Megalopta* for *ochrias* Vach., SCHROTTY (312) Zs. Hymenopter. **6**.

Melecta niveipes **sp. n.** Capland (287), ENDERLEIN Stettiner ent. Ztg. **67**.

Melipona beccarii, THEOBALD Khar-toum Rep. Wellcome Res. Lab. **2** (87-88) figs. 43, 44.

Melissa (Mesoscheira) duekei **sp. n.** Pará, FRIESE (199) Zs. Hymenopter. **6**.

Melissodes baiocy (361), *xanthopteralis*, *megacerata*, (362), Texas, *pinella* Arizona (363), *petuleiformis* Texas (364), *helenae* New Mexico (365), *confusiformis* Texas (366), **spp. n.**; *M. agilis semiaquilis* subsp. n. (364); *M. agilis subagilis* subsp. n. (367); COCKERELL Ann. Mag. Nat. Hist. Ser. 7 **17**.—*M. texana* subsp. n. *flavariae* (108), *atripes* var. n. *acomanche* (109), COCKERELL Philadelphia Trans. Amer. Ent. Soc. **32**.—*M. melandri* (109), *bruesi* (110), *ichecleri* (111), *wickhami* (112), N. America, **spp. n.**, COCKERELL Philadelphia Trans. Amer. Ent. Soc. **32**.—*M. hymenoxidis* **sp. n.**, Colorado, COCKERELL (443) New York Bull. Amer. Mus. **22**.—*M. illata* (110), *apicata* (111), Maine, LOVELL and COCKERELL Psyche **13**, **spp. n.**

Melitta americana, COCKERELL (5) Psyche **13**.

Melittosmithia **nom. n.** für *Smithia* Vachal, SCHULZ (244) Spolia hymenopt.

Mesotrichia, *Nylocopa* and *Koptorthosoma*, COCKERELL (364) Canad. Entomol. **38**.

Micranthophora **subgen. n.** for *Anthophora* part, COCKERELL (66) Philadelphia Trans. Amer. Ent. Soc. **32**.

Neopasites robertsoni Nebraska, CRAWFORD (283) Canad. Entomol. **38**, **sp. n.**

Nomada coxalis cretensis subsp. n. SCHULZ (67) Spolia Hym.—*N. solidaginis* host; FRISBY (90) Ent. Mag. London **42**; CHITTY T.c. (116); EVANS T.c. 140.—*N. odontophora* Asia minor, KOHL (245) Wien Ann. Hofmus. **20**, **sp. n.**—*N. packardiella* Colorado (225), *vallesina* New Mexico (226); COCKERELL Ann. Mag. Nat. Hist. Ser. 7 **17**, **spp. n.**—*N. pulsatillae* (69), *undulaticornis* (70), Colorado, *flammigera* Washington (71); COCKERELL Op. cit. **18**, **sp. n.**—*N. rohweri* (438), *cymbalariae* (439), Colorado, COCKERELL New York Bull. Amer. Mus. Nat. Hist. **22**, **spp. n.**—*N. ornithica* Colorado, COCKERELL (162) Canad. Entomol. **38**, **sp. n.**—*N. jennei* Washington State, COCKERELL (281) T.c., **sp. n.**—*N. emendata* **nom. n.** für *rubra* F. Sm., *sericulatorum* **nom. n.** für *superba* Pérez (259), SCHULZ Spolia hymenopt.

Nomia = (*Pseudapis* Kirby), *N. anomala* (8); *parca* (10), *triodontia* (13), S. Arabia, **spp. n.**; KOHL Hym. Südarab.—*N. melandri* Washington State, COCKERELL (279) Canad. Entomol. **38**, **sp. n.**

Odyneropsis holosericea and *Rhatymus armatus* distinguished, SCHROTTY (115) Zs. Hymenopter. Teschendorf **6**.

Oediscelis herbsti (227), *albida* (228), *Oe. (Pseudiscellis subg. n.) rostrata* (228), Chile, FRIESE Zs. Hymenopter. **6**, **spp. n.**

Oreopasites **gen. n.** *Philereminae*, *scituli* **sp. n.** Colorado, COCKERELL (442) New York Bull. Amer. Mus. **22**.

Osmia duekeana (241), *grossepunctata*, *pentheri*, (242), Asia minor, KOHL Wien Ann. Hofmus. **20**, **spp. n.**—*O. megaceps* Sokótra, KOHL (14) Hym. Südarab., **sp. n.**—*O. capensis*, **sp. n.** Cape Town, CAMERON Trans. S. Afric. Phil. Soc. **16** (323).—*O. hesparella*, *gaillardiae*, (227), *wilmattae* (228), *coloradella* (229), Colorado, **spp. n.**; *O. lignaria lignariella* subsp. n. (227); COCKERELL Ann. Mag. Nat. Hist. ser. 7 **17**.—*O. cyanonitens* (448), *ichecleri*, *hypochrysea*, (449), *florisanticola*, *albolateralis*, (450), *pentstemonis*, *subtrroris*, *giliarum*, (451), Colorado, COCKERELL New York Bull. Amer. Mus. **22**, **spp. n.**—*O. hypocrita* Colorado, COCKERELL (160) Canad. Entomol. **38**, **sp. n.**

Oxyredys beroni and *Hopliophora celutina* distinguished, SCHROTTKY (116) Zs. Hymenopter. Teschendorf 6.

Panurginus cressoniellus calochorti subsp. n., COCKERELL (222) Ann. Mag. Nat. Hist. ser. 7 17.—*P. (Ephimethea) herbsti* Chile, FRIESE (172) Zs. Hymenopter. 6, sp. n.

Paracolletes hobartensis, Tasmania (23), *worsfoldi* (24), *rudis*, *perfasciatus*, (25), *subfuscus* (26), *thornleighensis* (27), Australia; COCKERELL Ann. Mag. Nat. Hist. 7 17, spp. n.

Parammobates gen. n., *brasiliensis* sp. n., FRIESE Zs. Hymenopter. 6 (118).

Paraugochloropsis subg. n. cf. *Augochloropsis*.

Perdita pratti (125), *coreopsidis* (126), *bishoppi* (148), with var. (149), *cambarrella* (150), Texas; COCKERELL Entomologist 1906, spp. n.—*P. jonesi* (177), *allasiana* (178), spp. n., Texas; *xanthisme sideranthi* subsp. n. (178); COCKERELL T.c.—*P. tortifoliae*, *florissantella*, (440), *wilmattae* (441), Colorado, COCKERELL New York Bull. Amer. Mus. 22, spp. n.—*P. cockerelli* Nebraska, CRAWFORD (282) Canada Ent. 38, sp. n.

Podalirius subaequus Asia Minor, KOHL (234) Wien Ann. Nat. Hist. Hofmus. 20, sp. n.—*P. binghami* nom. n. für *Anthophora crocea* Bingham, *hasianus* nom. n. für *Habropoda fulvipes* Cam., *malenominatus* nom. n. für *capensis* Friese, (253), SCHULZ *Spolia hymenopt.*

Prosopis fedtschenkoi nom. n. for *frontalis* Mor., *pereziana* nom. n. for *morawitzi* Per., COCKERELL (166) Canad. Entomol. 38.—*P. diplonyma* nom. n. für *cognata* Pérez (237), *pereziana* nom. n. für *morawitzi* Pérez (238), SCHULZ *Spolia hymenopt.*—*P. robertiana* n. sp. Cape Town, CAMERON Trans. S. Afric. Phil. Soc. 16 (325).—*P. universitatis* Colorado, COCKERELL (225) Ann. Mag. Nat. Hist. ser. 7 17, sp. n.—*P. tuertonis* sp. n. Florissant, COCKERELL (423) New York Bull. Amer. Mus. 22.—*P. petrosellini* (8), *polybioides* (9), *guaranitea* (10), *paulistana* (12), *opaca* (14), *rivalis* (15), *tricolor* (18), *itapuensis* (19), *paraguayensis* (20), *cockerelli* (21), *tristis*, *hydrophila*, (24), *xanthocephala* (25), *iridipennis* (26), *arenaria* (27), *longicornis* (28),

Paraguay, SCHROTTKY An. Cient. Paraguay 1 No. 6, spp. n. [Though most of these are not so indicated.]

Prosopistemon gen. n. near *Prosopis*, *serotinelum* sp. n. Queensland; COCKERELL (17) Entomologist London 29.

Protandrena meridionalis Paraguay, SCHROTTKY (314) Zs. Hymenopter. 6, sp. n.

Psacnythia collaris Paraguay, SCHROTTKY (315) T.c., sp. n.

Pseudaugochloropsis subg. n. cf. *Augochloropsis*.

Pseudiscelis subg. n. cf. *Oediscelis*.

Ptiloglossa; nesting habits, SCHROTTKY Zs. wiss. Insektenbiol. 2 (323-325). *P. ochracea*, *chalybaca*, Argentina, KONOW (221) Zs. Hymenopter. 6, spp. n.

Rhathymus acutiventris Chiriqui, R. *versicolor* Guyaquil, (120), *fulvus* Brazil (121), spp. n., FRIESE Zs. Hymenopter. 6.

Sphécodes hesperellus pulsatillae subsp. n.; COCKERELL (75) Ann. Mag. Nat. Hist. ser. 7 18.—*S. cameroni* nom. n. für *iridipennis* Cam., *problematicus* nom. n. für *gracilior* Pérez, SCHULZ (235) *Spolia hymenopt.*—*S. bruchi* (305), *andinus*, Argentina, *capriciosus* (306), *paraguayensis*, Paraguay, *patagonicus* (307), *melanopus*, Patagonia, *argentinus* Catamarca, (308), *variabilis* Paraguay (309), *mutillaeformis* Argentina (310), SCHROTTKY Zs. Hymenopter. 6, spp. n.—*S. eustictus* Colorado, COCKERELL (163) Canad. Entomol. 38, sp. n.—*S. columbiae* Washington State, COCKERELL (280) T.c., sp. n.—*S. sulcatus* Colorado, COCKERELL (426) New York Bull. Amer. Mus. 22, sp. n.

Tetralonia fedoris, *birkmanniella*, Texas, (93), *annae* (114) N. Mexico, spp. n.; *edwardsii vagabunda* subsp. n. (95), COCKERELL Philadelphia Trans. Amer. Ent. Soc. 32.—*T. araucana* nom. n., für *nigripes* Friese, SCHULZ (252) *Spolia hymenopt.*—*T. yakimensis*, *douglasiana*, Washington State, COCKERELL (278) Canad. Entomol. 38, spp. n.

Thygater Holmb. is prior to *Macroglossapis*, COCKERELL (74) Ann. Mag. Nat. Hist. ser. 7 18.

Titusella gen. n. *Heriadinæ* (445), *pronitens* sp. n. Colorado (446), COCKERELL New York Bull. Amer. Mus., 22.

Trigona: supposed carnivorous habits, DUCKE (18) Zs. wiss. Insektenbiol. **2**.

Xenoglossa brevicornis ♀, COCKERELL (367) Ann. Mag. Nat. Hist. ser. 7 **17**.—*X. pruinosa limitaris* subsp. n., COCKERELL (73) Op. cit. **18**.

Xenoglossodes neotomae sp. n. New Mexico, COCKERELL (314) Philadelphia Trans. Amer. Ent. Soc. **32**.

Xylocopa cafferariae enderleini n. nom., SCHULZ (251) Spolia hymenopt.—*X. tarsata wellmani* var. n., COCKERELL (364) Canad. Entomol. **38**.—*X. rickiaea*, alimentary canal; BORDAS (233-250) Rennes Bul. Soc. Sci. Med. **14**.

The following *Apidae* have been previously recorded in the Zoological Record.

(*Allodape interrupta*, *bouyssoni*, *levis*, *nigricollis*, *rolini*, *pulla*, *vitrea*, spp. n., *interrupta collaris* var. n., Congo, VACHAL, Paris Ann. Soc. ent., **72**, 1903.)

(*Aneylosecelis baeri*, *filitarsis*, *turmalis*, *girardi*, *humilis*, *analisis*; VACHAL, Rev. ent. Caen (9-26), **23**, 1904, spp. n.)

(*Anthidium bouyssoni*, *sererini*, *ben-guelensis*, Congo, VACHAL, Paris Ann. Soc. ent., **72**, 1903, spp. n.—*A. bicoloratum* Sm. *tucumanum* var. n., VACHAL, Rev. ent. Caen, **23**, 1904.)

(*Anthophora annos*, *aerizusa*, Congo, VACHAL, Paris Ann. Soc. ent., **72**, 1903, spp. n.—*Anthophora hirpex*, VACHAL, Rev. ent. Caen, (9-26), **23**, 1904, sp. n.—*A. eorricolor*, California, COCKERELL, Ent. News, **16**, 1905, (81-13), sp. n.)

(*Bombomeleeta johnsoni*, Colorado, COCKERELL, Ent. News, **16**, 1905, (270-272), sp. n.)

(*Bombus baeri*, *tucumanus*? VACHAL, Rev. ent. Caen, (9-26), **23**, 1904, spp. n.—*B. rufosuffusus*, Colorado, COCKERELL, **16**, 1905, (270-272), sp. n.)

(*Caupolicana mystica* Schrottky *baeriana* var. n., VACHAL, Rev. ent. Caen, **23**, 1904.)

(*Centris antrani*, VACHAL, Rev. ent. Caen, (9-26), **23**, 1904, sp. n.)

(*Ceratina bouyssoni*, *aereola*, *erica*, *mocrenhouti*, *lincola*, *eoesia*, Congo, VACHAL, Paris, Ann. Soc. ent., **72**, 1903, spp. n.)

(*Chilicola* (?) *orientalis*, VACHAL, Rev. ent., Caen, **23**, 1904, sp. n.)

(*Calioxys Bouyssoni*, *nigripes*, *lanuginosa*, Congo, VACHAL, Paris, Ann. Soc. ent., **72**, 1903, spp. n.—*C. strigata*, *miranda*, VACHAL, Rev. ent., Caen, (9-26), **23**, 1904, spp. n.)

(*Colletes catulus*, *virgatus* VACHAL, T.c. spp. n.)

(*Crocisa scotaspis*, *pretexta*, *axillaris*, *calceata*, *hyalinata*, *melipes*, *delumbata*, *arcuata*, *tschoffeni*, *bouyssoni*, *calceata*, *interrupta*, VACHAL, Paris, Ann. Soc. ent., **72**, 1903, spp. n.)

(*Diphaglossa* (?) *gaullei*, VACHAL, Rev. ent., Caen, **23**, 1904, sp. n.)

(*Emphoropsis murihirta*, California, COCKERELL, Ent. News, **16**, 1905, (81-83), sp. n.)

(*Epeolus* (?) *baeri*, VACHAL, Rev. ent., Caen, **23**, 1904, sp. n.)

(*Eriades bouyssoni*, Congo, VACHAL, Paris, Ann. Soc. ent., **72**, 1903, sp. n.)

(*Halictus hotoni*, *duponti*, *scobis*, *erocinus*, *undulus*, *capnopus*, *surdus*, *australis*, *atricus*, *barbatus*, *bouyssoni*, *hoedillus*, *alluandi*, *haasi*, *evanidus*, *mixtiscapis*, Congo, VACHAL, Paris, Ann. Soc. ent., **72**, 1903, spp. n.—*H. nigromarginatus* *cyanomigrans*, *terrestris* *coerulearum*, *terrestris* *eufisetis*, *caligans*, *dilestipes*, varr. n., VACHAL, Misc. ent., Narbonne, **11**, 1903.—*H. pississi* ♀, *coloradinus* ♀, nov. nom. (pro *coloradensis* Crawford 1901), *kohliellus* ♀, *chiriquiensis* ♀, *leuneulus* ♀ ♂, *chalcis* ♀, *divaricatus* ♀, *podager* ♀ ♂, *seeratus* ♀, *gaullei* ♀, *schultzei* ♀, *obnuptus* ♀ ♂, *palumbus* ♀, *columbus* ♀ ♂, *macellus* ♀, *dolator* ♀ ♂, *eoelator* ♀ ♂, *purpurissimus* ♀ ♂, *scitulus* ♀, *mitratus* ♀, *cuprellus* ♀, *andensis* ♂ ♀, *brachycerus* ♂, *chastops*, ♂, *custiceps* ♂, *iodurus* ♂, *canosus* ♂, *cicindulus* ♂, *rectangulus* ♂, *scitulus* ♂, *afrinodis* ♂, *dilutior* ♂, *psan* ♀, *fuscicollis* ♀, *nitidicollis* ♀, *multiplax* ♀ ♂, *sympleres* ♀ ♂, *radians* ♀ ♂, *quadrans* ♀, *taurifrons* ♀, *nigriseopis* ♀ ♂, *levidorsis* ♀ ♂, *pendens* ♀, *pateus* ♀, *aurifluus* ♀, *acritalis* ♀ ♂, *anthrax* ♀ ♂, *brethesi* ♀ ♂, *apsidialis* ♀, *varians* ♀, *pentheres* ♀, *eyelis* ♀, *rotalis* ♀, *imperialis* ♀ ♂, *sparsilis* ♀ ♂, *discors* ♀ ♂, *angularis* ♀ ♂, *drepanis* ♀ ♂, *notialis* ♂, *elachion* ♂, *bractealis* ♂, *cherazon* ♀, *chaperi* ♀, *fornix* ♀, *sodalis*

♀, *argoides* ♂, *ochrias* ♂, *aethautis* ♂, *cphelix* ♀, *phacodes* ♀ ♂, *trinax* ♀, *grammodes* ♀, *rhytis* ♀, *phoenicis* ♀, *pyrrhorthrix* ♀, *fugax* ♀, *squamans* ♀, *crossotus* ♀, *cieur* ♀, *spizion* ♀ ♂, *lampter* ♀, *losipion* ♀ ♂, *nean* ♀ ♂, *hypixis* ♀ ♂, *chlerogas* ♀, *chrysops* ♀, *autrani* ♀, *ditachos* ♀, *nossax* ♀, *norops* ♀, *compar* ♀, *agraptes* ♂, *lopodion*, nov. nom. (= (*Cacosoma agile* Sm.), *azyx*, *chlorocion*, *trachyceer* ♂, *tradux* ♀, *leontodes* ♂, *aspricordis* ♂, *sordieutis* ♀, *cupriventris* ♀, *clachion* ♀, *praepotens* ♀, *crawfordi* ♀ ♂, *inermis* ♀ ♂, *cyanonigrans* ♀, *fulgur*, *aquilarex* ♀ ♂, *joannisi* ♀ ♂, *mesomelas* ♀, *fugax* ♀, *alaris* ♀, *vallensis* ♀, *tonsilis* ♀, *compar* ♀, *chaetops* ♂, *prothyrsteres* ♂, *chloris* ♂, *lepidodes* ♀, *nietans* ♀, *nyeteris* ♀, *pleurites* ♀, *lignys* ♀, *ieosi* ♀, *triacontas* ♀, *marginans* ♀, *stilborhin* ♀ ♂, *ricerai* ♀ ♂, *rutilans* ♀, *sequax* ♀, *pyenon* ♀, *notoplex* ♀, *diploon* ♀, *cercops* ♀ ♂, *cyancon* ♀, *codion* ♀ ♂, *caligans* ♀ ♂, *pattoni* nov. nom. (= *Aug. humeralis* Patton), *hemichrysis* ♀ ♂, *terrestris* ♀, *montensis* ♀, *cubiceps* ♀ ♂, *rudis* ♀ ♂, *scabrifrons* ♀ ♂, *cholas* ♀ ♂, *cirrhopus* ♀ ♂, *illustris* ♀ ♂, *chorisis* ♀ ♂, *notophos* ♀ ♂, *dirhipis* ♀ ♂, *toralis* ♀ ♂, *pullatus* ♂ ♀, *haemorrhous*, VACHAL, Misc. ent. Narbonne, **11**, 1903, spp. n.—II. *baeri*, *alticola*, VACHAL, Rev. ent. Caen, **23**, 1904, spp. n.)

(*Lithurgus pullatus*, Congo, VACHAL, Paris, Ann. Soc. ent., **72**, 1903, sp. n.)

(*Lonchopria*, gen. n., *herbsti*, sp. n., (204), VACHAL, Paris, Bul. soc. ent., **1905**, sp. n.)

(*Macrocera baeri*, *linearis*, *brethesi*, *buccosa*, *curtata*, *discobola*, *arthenica*, *dama*, VACHAL, Rev. ent. Caen, (9-26), **23**, 1904, spp. n.)

(*Manuelia*, gen. n., VACHAL, Paris, Bul. soc. ent., **1905**.)

(*Megachile* (*Chalieodoma*) *lucidifrons*, FERTON, Paris, Ann. soc. ent., **74**, sp. n.—*M. maritanda*, *loosi*, *brochidens*, *randa*, *muscaria*, *pallorea*, *semierma*, *ancillula*, *xanthoptera*, *strictipalmis*, *altera*, *utra*, *sosia*, *hopititis*, *meles*, *hecate*, *bouyssoni*, *stuppea*, *biseta*, *trichora*, *exesa*, *dexera*, *duponti*, Congo, VACHAL, Paris, Ann. soc. ent., **72**, 1903, spp. n.—*M. aretos*, *patagonica*, *vetula*, *rufiplantis*, *baeri*, *laevinasis*, *eburnipes*, *schrottkyi*, *nubila*, VACHAL, Rev. ent. Caen, **23**, 1904, spp. n.—*Megachile angustini*, New Mexico and California,

COCKERELL, Ent. News, **16**, 1905, (81-83), sp. n.)

(*Melipona baeri*, VACHAL, Rev. ent. Caen, (9-26), **23**, 1904.—*M. (Tr.) ecarina*, (Tr.) *ogonensis*, (Trig.) *denoiti*, (Trig.) *bouyssoni*, Congo, VACHAL, Paris, Ann. soc. ent., **72**, 1903, spp. n.)

(*Nomia ruficoxis*, *pristis*, *bouyssoni*, *granulata*, *atrinervis*, *flavicarpis*, *tersa*, *martini*, *melanoprocta*, *ampliata*, *latifrons*, *ligata*, *blandula*, *crassula*, *andrenoides*, *cirrita*, *collaris*, *thomae*, *lactinea*, Congo, VACHAL, Paris, Ann. Soc. ent., **72**, 1903, spp. n.)

(*Omaethes gabonensis*, Congo, VACHAL, T.c., sp. n.)

(*Osmia erythrogastra*, FERTON, Paris, Ann. soc. ent., **74**, sp. n.)

(*Sphcodes guincensis*, Congo, VACHAL, Paris, Ann. Soc. ent., **72**, 1903, sp. n.—*S. lunaris*, VACHAL, Rev. ent. Caen, **23**, 1904, sp. n.)

(*Syrphalonia astragalina*, Colorado, Colorado, Ent. News, **16**, 1905, (270-272), n. sp.)

(*Tetrapedia tucumana*, VACHAL, Rev. ent. Caen, *gaullei*, **23**, 1904, spp. n.)

DIPLOPTERA = *Vespidae*, *Eumenidae* & *Masariidae*.

Supplement to the social wasps of Brazil, with plates of nests, DUCKE Bul. Mus. Goeldi **4** (652-698).

Einiger ausländischer Wespenester, RUDOW Ent. Zs. Guben **20** (185-187, 201-203).

Alastor pentheri Asia minor, KOHL (231) Wien Ann. Nat. Hist. Hofmus. **20**, sp. n.—*A. festac* Darien, ZAVATTARI (2) Torino Boll. Mus. **21** No. 523, sp. n.—*A. clypeatus* (372), *nitidus* (373), Argentina, BRÈTHES An. Mus. Buenos Aires **6**, spp. n.

Ancistrocerus nearcticus Pennsylvania, *parvispinosus* New Mexico, (332), *formicans* Pennsylvania, *quebecensis* Canada, (333), CAMERON Philadelphia Trans. Amer. Ent. Soc. **32**, spp. n.

Apoica and *Synocca*, monograph; —*A. pallida* Ol. var. n. *thoracica* (340); DU BOUYSSON Paris Ann. Soc. ent. **75** (333-362) pl. xi-xvii.

Belonogaster kohli sp. n. Fernando Po, SCHULZ (322) *Spolia hynenopt.*—

B. rasseae Zambèze (189), *abyssinicus* Abyssinie (190), Du Buysson Paris Bull. Soc. ent. 1906, **spp. n.**

Caba borellii Argentina, ZAVATTARI Torino Boll. Mus. 21 No. 523 (1-1), **sp. n.**

Celonites montanus **sp. n.** Turkestan, MOCSÁRY (198) Ann. Hist.-Nat. Mus. Nat. Hung 4.

Ceramius rufomaculatus **sp. n.** Cape Town; CAMERON Trans. S. Afric. Phil. Soc. 16 (325).

Chartergus panamensis Colon, ZAVATTARI (4) Torino Boll. Mus. 21 No. 529, **sp. n.**—*C. amazonicus* (380), *flavofasciatus* (381), Amazons, CAMERON Zs. Hymenopter. 6, **spp. n.**

Clypearia angustior Minas Geraes, DUCKE (6) Rev. ent. Caen 25, **sp. n.**

Coelonites jousseaumei Obock (104), *rothschildi* E. Africa (105), **spp. n.**, *C. fischeri* synonymy (103); Du Buysson Rev. Ent. Caen 25.

Discoelius caridei (22), *argentinus* (23), *lynchii* (25), *chacöensis* (27), Argentina, BRÈTHES An. Mus. Buenos Aires 6, **spp. n.**—*D. holmbergi* Argentina (316), *anisitsii* Paraguay (317), *pampicola* (321), *spagazzinii* (322), *albonotatus* (323), *foxii* (324), Argentina; BRÈTHES T.c., **spp. n.**

Eumenes tricolor (64), *sylonotus* (65), **spp. n.**, New Guinea, CAMERON Nova Guinea 5 Livr. 1.—*E. centralis* **sp. n.** Panama, CAMERON Zs. Hymenopter. 6 (128).—*E. henricus* Panama, CAMERON (151) Entomologist 1906, **sp. n.**—*E. bonariensis* (29), *spagazzinii* (31), Argentina, BRÈTHES An. Mus. Buenos Aires 6, **spp. n.**—*E. flavescens* (328), *paraguayensis*, *unicincta*, (331), *laevigata* (332), *anisitsii* (333), *minuscule* (335), Paraguay, BRÈTHES An. Mus. Buenos Aires 6, **spp. n.**—*E. caniculata*, nesting habits, BRUCH Revist. Mus. La Plata 11 (223).—*E. pomiformis*, natural history, LALOY (153, 154) Naturaliste 1906.—*E. conica* (Fabr.), variation, (349), PAIVA Calcutta J. As. Soc. Beng. 2.—*E. critica* **nom. n.** für *gracilis* Fox 1899, (214); *moseri* Fernando Po. **sp. n.** (315), SCHULZ Spolia hymenopt.

Hypochartergus **gen. n.**, *carinatus* **sp. n.** Rio Cianati, ZAVATTARI (7) Torino Boll. Mus. 21 No. 529.

Icaria irrequieta S. Arabia, KOHL (51) Hym. Südarab., **sp. n.**—*I. aethiopica* Dirouhoria, *brazzai* Congo, Du Buysson (110) Rev. Ent. Caen 25, **spp. n.**—*I. zonata* (61), *spilostoma* (62), **spp. n.** New Guinea, CAMERON Nova Guinea 5 Livr. 1.—*I. pruinosa* (228), *spilocephala* (230), New Guinea, CAMERON's Gravenhage Tijdschr. Ent. 49, **spp. n.**

Ischnogaster clypealis **sp. n.** Borneo, CAMERON Singapore J. Straits R. As. Soc. No. 46 (122).—*I. malayensis* New Guinea, CAMERON (231)'s Gravenhage Tijdschr. Ent. 49, **sp. n.**

Jugurtia neotropica **sp. n.** Paraguay, MOCSÁRY (197) Ann. Hist.-Nat. Mus. Nat. Hung. 4.

Labus fraterculus, *socotrac*, (58), Sokotra, *gracilis* Sinai (59), *nigrinus* (60), *finitimus* (61), *astulus* (62), *transiens* (63), S. Africa, *L. macrostylus* Sierra Leone (64), KOHL Hym. Südarab., **spp. n.**—*L. rothschildianus* E. Africa (106), *maindroni* Obock (107), Du Buysson Rev. Ent. Caen 25, **spp. n.**

Leontiniella argentina, sexes, BRÈTHES (36) An. Mus. Buenos Aires 6.

Megacanthopus goeldii Rio Negro, DUCKE (690) Bol. Mus. Goeldi 4, **sp. n.**

Metazethoides **nom. n.** für *Zethoides* Cam. 1904, SCHULZ (213) Spolia hymenopt.

Monacanthoemismis buyssoni Rio de Janeiro, DUCKE (9) Rev. Ent. Caen 25, **sp. n.**

Monobia caridei Argentina (338), *anisitsii* Paraguay (340), BRÈTHES An. Mus. Buenos Aires 6, **spp. n.**

Montezumia argentina (33), *andina* (34), Argentina, BRÈTHES T.c., **spp. n.**—*M. holmbergii* (336), *pedunculata* (337), Argentina, BRÈTHES, T.c., **spp. n.**—*M. macrocephala* subsp. n. *chilensis*, SCHULZ (216) Spolia hymenopt.

Nesodynerus paraetias Molokai, PERKINS (73) Honolulu Proc. Hawai. ent. Soc. 1, **sp. n.**

Nortonia moricei Nile (65), *braunsii* S. Africa (66), *N. (?) polydora* (67), *N. (?) morula* (68), West Africa, *soror* S. Africa, *fragosa* W. Africa, (69), *mimica* (70), *pilifrons* (71), Brazil, KOHL Hym. Südarab., **spp. n.**

Odynerus (*Leptochilus*) *melanchrous* Abd el Kûri (86), *rubellulus* Sémha (87), *O.* (*Leionotus*) *ignavus* S. Arabia (88), *socotrac* Sokôtra (89), KOHL Hym. Südarab., **spp. n.**—*O.* (*Ancistrocerus*) *atlanticus* Cape Verde islands, CAMERON (13) Entomologist London **29**, **sp. n.**, but T.c. (83) is *atlanticus* Kirby.—*O. defractus* (108), *neuvillei* (109). E. Africa, DU BUYSSON Rev. Ent. Caen **25**, **spp. n.**—*O. sariensis* **sp. n.** New Guinea, CAMERON Nova Guinea **5** Livr. 1 (63).—*O. merankensis* (224), *O.* (*Leionotus*) *fulvopruinosus* (225), *O.* (*Symmorphus*) *meijereanus* (226), New Guinea, CAMERON's Gravenhage Tijdschr. Ent. **49**, **spp. n.**—*O.* (*Leionotus*) *bisulcatus* Australia, CAMERON (78) Entomologist 1906, **sp. n.**—*O. mathewi* Vancouver's island, CAMERON (268) Entomologist 1906, **sp. n.**—*O. delodontus* (196), *egregius*, *suboltecus*, (197), *leionotus*, *excentralis*, (198), *microstictus*, *paenervagus*, (199), *percampanulatus* (200), Kansas, **spp. n.**, VIERECK Philadelphia Trans. Amer. Ent. Soc. **32**.—*O.* (*Ancistrocerus*) *waltonii* **sp. n.** Connecticut, VIERECK (304) Ent. News **17**.—*O. harringtoni* (327), *ruficandis*, *pulchrinervis*, (328), *aqualis* (329), *santae-fae* (330), *pictiventris* (331), New Mexico, CAMERON Philadelphia Trans. Amer. Ent. Soc. **32**, **spp. n.**—*O. packardi* **sp. n.** Mexico, CAMERON (335) Philadelphia Trans. Amer. Ent. Soc. **32**.—*O. pseudochromoides*, *paranaias*, (71), *tempe* (72), *monas*, *aprepes*, (73), Hawaiian islds., PERKINS Honolulu Proc. Hawai. ent. Soc. **1** **spp. n.**—*O. venustus* (36), *saltensis* (39), Argentina, BRÈTHES An. Mus. Buenos Aires **6**, **spp. n.**—*O.* (*Ancistrocerus*) *erythraeus* Argentina (346), *rufus* Paraguay, *fabieni* Argentina, (347), *flavomarginatus* Brazil (349), *distinguendus* (350), *foxi* (351), *caridei* (352), *O.* (*Stenancistrocerus*) *foreolatus* (354), *abditus* (355), *mendozamus* (356), Argentina, *dollatorrei* (358), *assumptionis* (359), Paraguay, *platensis* Buenos Aires (360), *concevus* (363), *holmbergii* (364), Argentina, *O.* (*Stenodynerus*) *anisitsii* (366) Paraguay, *gemellus* Argentina (368), *bonariensis* Buenos Aires (369); BRÈTHES T.c., **spp. n.**—*O. neonymus* **nom. n.** für *cylindricus* Pérez (218), *recoctus* **nom. n.** für *saussurei* Fox, *vicarius* **nom. n.** für *simplicipes* Cam., *interdictus* **nom. n.** für *rubripes* Pérez (219), *cameroni* **nom. n.** für *regularis* Cam. (220), SCHULZ Spolia hymenopt.—

O. reniformis nesting-habits, MORICE (216-220) Ent. Mag. London **42**.—†*O. palaeophilus* (56), *praeseputus* (57), Florissant, **spp. n.**, COCKERELL Cambridge Mass. Bull. Mus. Comp. Zool. Harvard Coll. **50**.

Pachodynerus validus Argentina, BRÈTHES (343) Ann. Mus. Buenos Aires **6**, **sp. n.**

†*Palaeovespa* **gen. n.** *Vespidae*, *florissantia* (54), *scudderii*, *gillettei*, (55), Florissant, **spp. n.**, COCKERELL Cambridge Bull. Mus. Harvard **50**.

Parachartergus fasciipennis Amazons, DUCKE (665) Bol. Mus. Goeldi **4**, **sp. n.**

Plagiolabra Sch.-R. = (*Leontiniella* Br.), BRÈTHES (341) An. Mus. Buenos Aires **6**.—*P. andina* Argentina, id., l.c., **sp. n.**

Polistes; ♂ characters, S. American, BRÈTHES (313-315) T.c. — *P. haugi* Gabon, DU BUYSSON (189) Paris Bull. Soc. ent. **1906**, **sp. n.**—*P. malayanus* (60), *albobalteatus* (61), **spp. n.**, New Guinea, CAMERON Nova Guinea **5** Livr. 1 (41-65).—*P. erlamans* **sp. n.** Kansas, VIERECK (201) Philadelphia Trans. Amer. ent. Soc. **32**.—*P. cavapyta* Sauss var. n. *thoracica*, Mendoza Argentina, BUYSSON Kjöbenhavn ent. Medd. **3**.—*P. deuteroleucus* Barbacena, DUCKE (10) Rev. ent. Caen **25**, **sp. n.**—*P. tullgreni* **nom. n.** für *inornatus* Tullgr., SCHULZ (229) Spolia hymenopt.

Polistratus **gen. n.**, *cariniscutis* **sp. n.** New Guinea, allied to *Polistes* and *Polistella*, CAMERON Nova Guinea **5** Livr. 1 (59).

Polybia cameranii (16), *litoralis* (12), *aequatorialis* (15), Punta de Sabana, *procellora* (14), *festae* (17), San José, ZAVATTARI Torino Boll. Mus. **21** No. 523, **spp. n.**—*P. panamaensis* Panama (382), *trilli* Amazons (383), *acutiscutis* Brit. Honduras, (385), CAMERON Zs. Hymenopter. **6**, **spp. n.**—*P. tapajosensis* (151), *melanocephala*, *sericeibal-teata*, S. America, (152); CAMERON Entomologist 1906, **spp. n.**—*P. myrmecophila* Pará, DUCKE (684) Bol. Mus. Goeldi **4**, **sp. n.**—*P. minarum* Barbacena, *sampaioi* Parana, DUCKE (8) Rev. ent. Caen **25**, **spp. n.**—*P. binominata* **nom. n.** für *minutissima* Sauss., SCHULZ (233) Spolia hymenopt.—*P. myrmeco-*

phila habits, swarming. DUCKE (18, 19) Zs. wiss. Insektenbiol. **2**.

Pterocheilus eurystomus Sokótra (89), *mongolicus* Mongolia (90), *iterabilis* Egypt (91), KOHL Hym. Südarab., **spp. n.**

Rhopalosoma guianense Guiana (221), *bahianum* Bahia (222), **spp. n.**, SCHULZ *Spolia hymenopt.*

Rhynchium (*Auterhynchium*) *forticulum* (82), *simonyi* (83), *kelidopterum* (84), S. Arabia, KOHL Hym. Südarab., **spp. n.**

Symmorphus cogitans Canada (325), *trisulcatus* New Mexico, (326) CAMERON Philadelphia Trans. Amer. Ent. Soc. **32, spp. n.**

Synagris negusi E. Africa, DU BUYSSON (107) Rev. Ent. Caen **25, sp. n.**—*S. basalis* Africa centralis (198), *ornata* Africa orientalis (199), **spp. n.**, MOCSÁRY Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Synocca and *Apoica*, monograph (333-362) pls. xi-xvii; *S. irina* Sp. var. n., *splendens* (358); DU BUYSSON Paris Ann. soc. ent. **75**.

Vespa saussurei nom. n. for *japonica* Sauss., SCHULZ (231) *Spolia hym.*—*V. orientalis* and *crabro*, distinguished, KOHL (230) pl. x Wien Ann. Nat. Hist. Hofmus. **20**.—*V. diabolica*, nest, JOHNSON Ent. News **17** (139) with text fig.

Zethus missionus (326), *holmbergii* (327), Argentina, BRÉTHES An. Mus. Buenos Aires **6, spp. n.**—*Z. silvaceo-grandis* **nom. n.** für *bicolor* Fox, SCHULZ (213) *Spolia hymenopt.*

The following Vespidae have been recorded previously in the Zoological Record.

(Peckham, George William. Wasps, social and solitary. With an introduction by John Burroughs. Boston and New York (Houghton, Mifflin), 1905, (xv + 311).)

(Du Buysson, Robert. Monographie des Vespides du genre *Nectarina*. Paris, Ann. soc. ent., **74**, 1905, (537-566, av. pl.).)

(*Charterginus duckei*, DU BUYSSON, Paris, Bul. soc. ent., **1905**, sp. n.)

(*Ischnogaster serrei*, *serratulus*, DU BUYSSON, T.c. spp. n.)

(*Masaris alfkeni*, DU BUYSSON, Paris, Bul. soc. ent., **1904**, (144-146), sp. n.)

(*Megacanthopus undulatus*, DUCKE, Rev. ent. Caen, **24**, 1905, sp. n.)

(*Metapolybia* gen. n., DUCKE, T.c. type *M. pediculata* Sauss.)

(*Monacanthoenemis* gen. n., DUCKE, T.c. *M. filiformis* Sauss.)

(*N. scutellata* Spinola var. *gribodoi* var. nov. DU BUYSSON, Paris, Ann. soc. ent., **74**.—*N. buyssoni*, DUCKE, Rev. ent. Caen, **24**, 1905, sp. n.)

(*Odynerus wagneri*, DU BUYSSON, Paris, Bul. soc. ent., **1905**, sp. n.)

Parachartergus amazonensis, DUCKE, *difficilis* Rev. ent. Caen, **24**, 1905, spp. n.—*P. wagneri*, DU BUYSSON, Paris, Bul. soc. ent., **1904**, sp. n.)

(*Polistes aquilinus*, *tenellus*, *bituberculatus*, *alboculcaratus*, DU BUYSSON, Paris, Bul. soc. ent., **1905**, spp. n.—*P. crythrogaster*, *rhodostoma*, DUCKE, Rev. ent. Caen, **24**, 1905, spp. n.)

(*Polybia occidentalis dignea* and *nigratella*, varr. n., DU BUYSSON, T.c. (9-11).—*P. decorata*, *ornata*, *ruficornis*, *flaripennis*, DUCKE, Rev. ent., Caen, **24**, 1905, spp. n.)

(*Protopolybia* gen. n., DUCKE, T.c., type *Chartergus nitidus* Ducke.)

(*Pseudochartergus* gen. n., DUCKE, T.c., = *Charterginus* ex parte.)

(*Synocooides* gen. n., *depressa* sp. n., DUCKE, T.c.)

(*Vespa caidemoides*, *mocsaryana*, *walkeri*, *barthelemyi*, *binghami*, *variabilis*, DU BUYSSON, Paris, Ann. soc. ent., **73**, 1904, spp. n.—*V. cincta pieca*, *bellicosa semperi*, *relutina ardens*, *auroria citriventris*, *auroria nigrithorax*, *orbata aurulenta*, *rufa intermedia*, *rufa americana*, *norvegica adulterina*, *sylvestris sumptuosa*, *germanica stizoides*, *crabro biroi*, *crabro tartarea*, *crabro tenebrosa*, *crabro pulchra*, *crabro soror*, varr. n., DU BUYSSON, Paris, Ann. soc. ent., **73**, 1904.)

FOSSORIA. (*Sphegidae*.)

Notes on the habits of various *Pompilids* and *Sphegids*, ADLERZ Stockholm Vet. Ak. Handl. **42** No. 1 (1-48).

Agencia capensis Willowmore, BRAUNS Wien Verh. Zool.-bot. Ges. 1906, **sp. n.**

Alyson kathovi sp. n., *A. fuscatus* var. n. *jaroslavensis* Podolien und Jaroslavl, KOKUJEV St. Petersburg Hor. Soc. Ent. Ross. **37** (209-219).

Ammophila (*Psammophila*) *ariasii* (187), *errabunda* (190), *homogena* (191) Spain, *mauritanica* Tangier (189), GARCIA Madrid Bcl. Soc. espan. **6**, spp. n.

† *Ammophila antiquella* sp. n. Florissant, COCKERELL (49) Cambridge Mass. Bull. Mus. Comp. Zool. Harvard Coll. **50**.

Ancistromma sericifrons (247), *bruneri* (248), Nebraska, SMITH Ent. News **17**, spp. n.—*A. vegetoides, zerbei*, (208), *tachysphæcoides* (209), *paenerrugosa* (210), Kansas, spp. n., VIERECK Philadelphia Trans. Amer. Ent. Soc. **32**.

* *Anoplius* (*Pompilinus*) *snowi* sp. n. Kansas, VIERECK (202) Philadelphia T.c.

Aporus ferrugineipes sp. n. Kansas, VIERECK (203) T.c.

Bembex ros-rata, Beibildungen u. Lebensweise, FAUSSEK St. Petersburg Zap. Russ. Geogr. Obsč. **27** (1 + 1-192 + 1) mit 64 Abb. i. T. u. 4 Taf.

Blepharipus columbiae Selkirk Mts., BRADLEY (330) Canad. Entomol. **36**, sp. n.

Brachycystis stictinotus sp. n. Kansas, VIERECK (190) Philadelphia Trans. Amer. Ent. Soc. **32**.

Cerceris invalida S. Arabia (37), *podagrosa* (38), *sokotrae* (39), Sokotra, *ragula* (41), *querula* (42), S. Arabia, KOHL Hym. Südarab., spp. n.—*C. papuana* sp. n. New Guinea, CAMERON Nova Guinea **5** Livr. 1 (57)—*C. cameroni* nom. n. für *canaliculata* Cam. 1905 (194), *neogenita* nom. n. für *luerigata* Holmb. 1903, *rebaptizata* nom. n. für *pieiventris* Gerst. 1857 (195), SCHULZ Spolia hymenopt.—*C. deserta*, female, VIERECK Ent. News **17** (397).

† *Ceropalites* gen. n. *Pompilidae*, *infelix* sp. n. Florissant, COCKERELL (53) Cambridge Bull. Mus. Harvard **50**.

Chlorion; monograph of, from North and Central America and West Indies, FERNALD No. 1487 Washington U. S. Nat. Mus. Proc. **31**; *auripes* nom. n. for *tibialis* Lep. (356), *harrisi*

nom. n. for *apicalis* Harr. (359), *eubensis* nom. n. for *claripes* Kohl (367), *flavitaris* nom. n. for *flavipes* Sm. (379), *saussurei* nom. n. for *hirsutus* Sauss. (381), *resinipes* nom. n. for *rufipes* Lep. (386), *ashmeadi*, Texas (389), sp. n.

Crabro clareonis sp. n. Kansas, VIERECK (213) Philadelphia Trans. Amer. Ent. Soc. **32**.—*C. frederic-smithi* nom. n. für *affinis* F. Sm. (204), *confusus* nom. n. für *signatus* Panz. (207); *oceanicus* sp. n. Vita (202), SCHULZ Spolia hymenopt.

Cryptocheilus paenepareus sp. n. Kansas, VIERECK (202) Philadelphia Trans. Amer. Ent. Soc. **32**.—*C. nesarehus* sp. n. Fernando Po, SCHULZ (304) Spolia hymenopt.—*C. belligerans* nom. n. für *bellicosus* R. Buys., *clericalis* nom. n. für *Prionoenemis carbonarius* Holmb., *holmbergi* nom. n. für *Prionoenemis australis* Holmb., (166), *petri* nom. n. für *Salix frederici* Cam., *posterior* nom. n. für *obscurus* R. Luc., *reeditus* nom. n. für *rufomemoratus* R. Luc., (167), SCHULZ T.c.

Dasylabris subconspicua Eritrea, MAGRETTI (80) Firenze Boll. Soc. entom. **37**, sp. n.

Didineis crassicornis sp. n. Kansas, VIERECK (204) Philadelphia Trans. Amer. Ent. Soc. **32**.—*D. koshernikovi* sp. n. Gouv. Moskau, KOKUJEV St. Petersburg Hor. Soc. Ent. Ross. **37** (209-219).

Dielis, de-meijeri (51), *manokwariensis* (52), *humboldti* (53), spp. n., New Guinea, CAMERON Nova Guinea **5** Livr. I.—*D. formosa* var. n. *maculiceps*, CAMERON (218) 's Gravenhage Tijdschr. Ent. **49**.

Diodontus brunneicornis sp. n. Kansas, VIERECK (212) Philadelphia Trans. Amer. Ent. Soc. **32**.

Elis (*Trielis*) *pollenifera* sp. n. Kansas, VIERECK (190) T.c.

Ephuta (*Tilluma*) *radiata* Cayenne (35), *limata* Paraguay (37), *maculifrons* Guayaquil (38), *peruviana* Vilcanota (39), *E. (Traumatomutilla) gemella* S. Paulo (42), *angustata* Rio Grande do Sul (43), *triangulifera* (45), *punctosignata* (48), Pernambuco, *chilena* Chile (48), *bimaculata* S. Paulo (65), *dives* Brazil (66), *comata* Guayaquil (67), *E. cayennensis* Guiana (70),

flaviceps Haïti (72), *boliciana* Mapiri (74), *vulnerifrons* Costa Rica (75), *expansa* Guatemala (77), *mapiriensis* Bolivia (79), *rulnerithorax* Amazons (161), *ditissima* Paraguay (162), *sulcifrons* Brazil (164), *aequatorialis* Guayaquil (165); ANDRÉ Zs. Hymenopter. Tschendorf 6, spp. n.

Eumetabolus nom. n. für *Astutus* Panz. 1801, SCHULZ (211) Spolia hymenopt.

Gasterosericus capensis Willowmore (49), *oraniensis* Bothaville (51), *karooensis* Willowmore (52), BRAUNS Wien Verh. Zool.-bot. Ges. 1906, spp. n.

†*Geotiphia* gen. n. *Scoliidae* (49), *foziana* sp. n. Florissant (51), COCKERELL Cambridge Bull. Mus. Harvard 50.

Gorytes hispanicus (116), *G. (Hoplisoides) ibericus* (117), *G. (Hoplisus) fraternus* (119), *dichrous* (120), Spain, MERCET Mem. Soc. esp. Hist. Nat. 4, spp. n.—*G. homonymus* nom. n. für *politus* Bingham, *usurpator* nom. n. für *longicornis* Handl., (200), SCHULZ Spolia hymenopt.

†*Hemipogonius florissantensis* (52), *scudderi* (53), COCKERELL Cambridge Bull. Mus. Harvard 50, spp. n.

†*Hoplisidia* gen. n. *Nyssonidae* (47), *kohlana* and *sepultus* spp. n. Florissant (48), COCKERELL T.c.

Hoplomutilla moneta rufonotata var. n., ANDRÉ Zs. Hymenopter. Tschendorf 6 (33).

Irenangelus gen. n. *Ampulicinae* (175), *hornus* sp. n. Guiana (180), SCHULZ Spolia hymenopt.

Lissocnemis subg. n. cf. *Salius*.

†*Lithotiphia* gen. n. *Scoliidae*, *scudderi* sp. n. Florissant, COCKERELL (52) Cambridge Mass. Bull. Mus. Comp. Zool. Harvard Coll. 50.

Megistommum nom. n. für *Megalomma* F. Sm., SCHULZ (200) Spolia hymenopt.

Methoca ichneumonides, life history and habits, ADLERZ Uppsala Arkiv. Zool. 3 No. 4.

Miscophus oraniensis Oranje-Freistaat, BRAUNS (58) Wien Verh. zool.-bot. Ges. 1906, sp. n.

Mutilla manilensis, parva, Philippines, BROWN (685) Philipp. J. Sci. 1, spp. n.—*M. triuspido-carinulata* (48), *rigoniorum* (49), *sabargumae* (52), *thoraco-sulcata* (53), *damharica* (55), *hoplocephuloides* (58), *martinii* (60), *adi-ugrina* (63), *andreinii* (65), *bellii* (67), *nasicornis* (72), *sennae* (73), *clypearis* (75), *atro-cyanca* (77), Eritrea, MAGRETTI Firenze Boll. Soc. entom. 37, spp. n.—*M. timensis* sp. n. New Guinea, CAMERON Nova Guinea 5 Livr. 1 (50)—*M. (Timulla) montivagoides* (185), *prognoides* (186), *nigricauda* (187), *M. (Photomorphus) quintilis* (187), *M. (P.?) crepuscula* (188), *M. (Photopsis) imperialiformis* (189), Kansas, spp. n., VIERECK Philadelphia Trans. Amer. Ent. Soc. 32.—*M. cameroni* nom. n. für *javanica* Cam. 1905, SCHULZ (158) Spolia hymenopt.

Myzina discontinua nom. n. für *Plesia interrupta* Cam. 1905, *tenebrosa* nom. n. für *Plesia carbonaria* Cam. 1905, SCHULZ (162) T.c.

Niteliopsis foxii sp. n. Kansas, VIERECK (207) Philadelphia Trans. Amer. Ent. Soc. 32.

Notoglossa paenemarginatus, calligaster, (214), *taenigaster* (215), Kansas, spp. n., VIERECK T.c.

Notogonia expedita Sokótra (51), *pharaonum* Cairo (52), KOHL Hym. Südarab., spp. n.

Nysson clarconis sp. n. Kansas, VIERECK (204) Philadelphia Pa. Trans. Amer. Ent. Soc. 32.

Odontomutilla tellini Eritrea, MAGRETTI (42) Firenze Boll. Soc. entom. 37, sp. n.

Oxybelus aethiopicus sp. n. Cape Town, CAMERON Trans. S. Afric. Phil. Soc. 16 (328).—*O. exclamans* sp. n. Kansas, VIERECK (215) Philadelphia Trans. Amer. Ent. Soc. 32.—*O. dahlbomi* nom. n. für *14-notatus* Dahlb., SCHULZ (211) Spolia hymenopt.

Passalaceus equalis sp. n. Kansas, VIERECK (212) Philadelphia Pa. Trans. Amer. Ent. Soc. 32.

†*Passalocens scudderi* sp. n. Florissant, COCKERELL (46) Cambridge Bull. Mus. Harvard 50.

Pepsis speciosissima nom. n. für *speciosa* F. Sm. 1855, SCHULZ (167) Spolia hymenopt.

Philanthus stecki **sp. n.** Fernando Po., SCHULZ (309) T.c.—*P. clarconis* **sp. n.** Kansas, VIERECK (206) Philadelphia Trans. Amer. Ent. Soc. **32**.

Pisum allonymum **nom. n.** für *iridipenne* Cam., SCHULZ (213) Spolia hymenopt.

Pompilus resamus (98), *vegetus* 99, S. Arabia, *P. (Episyrus) solitaneus* Sokótra (101), *stieglmayri* S. America (103), *nexilis*, *reles*, W. Africa, (104), *P. (Ferrea)* *sokotrae* Sokótra (105), *argumentalis* (106), *noscibilis* (108), S. Arabia, *rupex* Senegambia (109), *regran-dis* S. Arabia, *saltabundus* Sokótra, (110), KOHL Hym. Südarab., **spp. n.**—*P. manokwariensis* **sp. n.** New Guinea, CAMERON Nova Guinea **5** Livr. **1** (55).—*P. duplex* **nom. n.** für *abdominalis* F. Sm., *steini* **nom. n.** für *affinis* Stein, (168), *relegandus* **nom. n.** für *femoralis* Spin., *stretchi* **nom. n.** für *anceps* F. Sm., (169), *emeritus* **nom. n.** für *distingendus* F. Mor., *expulsus* **nom. n.** für *connexus* Fox, (170), *xanthospilus* **nom. n.** für *flavopictus* F. Sm. (171), *rejectus* **nom. n.** für *orbitalis* Cress. (172), *chacoënsis* **nom. n.** für *spilopterus* Holmb. (173), *oenochrous* **nom. n.** für *vinicolor* Fox, *remissus* **nom. n.** für *ragans* A. Costa, (174), SCHULZ Spolia hymenopt.—*P. kizilkumensis*, Beinbildung u. Lebensweise, FAUSSEK St. Petersburg Zap. Russ. Geogr. Obsč. **27** (1+1-192+1) mit 64, Abb. i. T. u. 4 Taf.

Prioenemis atlanticus Kirby, CAMERON (83) Entomologist 1906.

†*Prophilanthus* **gen. n.** Philanthidae (46), *destructus* **sp. n.** Florissant (47), COCKERELL Cambridge Bull. Mus. Harvard **50**.

Prosopigastra mocsaryi (53), *capensis* (55), South Africa, BRAUNS Verh. zool.-bot. Ges. 1906, **spp. n.**

Psenulus? interstitialis New Guinea, CAMERON (222) 's Gravenhage Tijdschr. Ent. **49**, **sp. n.**

Pseudagenia australis Australia, CAMERON (176) Entomologist 1906, **sp. n.**—*P. assamensis* **nom. n.** für *agitata* Cam., *decaedus* **nom. n.** für *iridipennis* Cam., (165); *P. vulcanicola* **sp. n.** Fernando Po (297); SCHULZ Spolia hymenopt.

Pseudapis Kirby is *Nomia*, KOHL (8) Hym. Südarab.

Pseudopedinaspis **gen. n.** *Pompili-darum* (44), *marshalli* **sp. n.** Mashona-land (46), BRAUNS Wien Verh. zool.-bot. Ges. 1906.

Reedia centrolineata Paraguay, ANDRÉ (33) Zs. Hymenopter. Teschen-dorf **6**, **sp. n.**

Salius (Cyphononyx) simonyi S. Arabia (93), *S. (Lissoenemis* subg. n.) *irrasus* (97), Java, KOHL Hym. Südarab., **spp. n.**—*S. ridleii* **sp. n.** Borneo; CAMERON Singapore J. Straits R. As. Soc. No. 46 (121).—*S. schizostomus*, *erythroua*, **spp. n.** New Guinea, CAMERON Nova Guinea **5** Livr. **1** (54).

Sapyga quinquepunctata = (*decipiens* Lep.), SCHULZ Spolia Hym. (41).

Sceliphron (Chalybion) heinii Süd-arabien (21), *frontale* Ceylon, *maliq-num* Japan and China, (24), *heinii* Mauritius and Sokótra (26 and 29), KOHL Hym. Südarab., **spp. n.**—*S. papuanum* New Guinea, CAMERON (221) 's Gravenhage Tijdschr. Ent. **49**, **sp. n.**

Scolia foxi **nom. n.** für *angulata* Fox (162), *binominata* **nom. n.** für *bisignata* Fox, *corrigenda* **nom. n.** für *nigra* Sauss., (163), *labilis* **nom. n.** für *signata* F. Sm., *pseudonyma* **nom. n.** für *smithi* Fox, *reversa*, **nom. n.** für *Elis pygmaea* Schrottky, (164); *S. mansueta*, subsp. *sectiphila* **n. nom.** (163); SCHULZ Spolia hymenopt.

Solenius vagus nymph, PLANET (187, 188) figs. 1-3 Naturaliste 1906.

Sphex (Isodontia) hewitti **sp. n.** Borneo, CAMERON Singapore J. Straits R. As. Soc. No. 46 (119).

Spilomena alboclypeata Brit. Col-umbia, BRADLEY (380) Canad. Entomol. **38**, **sp. n.**

Stenomutilla pseudoberöe Eritrea, MAGRETTI (83) Firenze Boll. Soc. entom. **37**, **sp. n.**

Stizus (Stizomorphus) carpetanus (144), *pulchellus* (146), *S. aestivalis* (147), Spain, MERCET Mem. Soc. esp. Hist. nat. **4**, **spp. n.**—*S. papuanus* **sp. n.** New Guinea, CAMERON Nova Guinea **5** Livr. **1** (58).—*S. revindicatus* **nom. n.** für *schmiedeknechti* Handl., SCHULZ (199) Spolia hymenopt.

Tachypompilus ashmeadi Philippines, BROWN (684) Philipp. J. Sci. **1**, **sp. n.**

Tachysphex aemulus (48), *glaber* (49), S. Arabia, KOHL, Hym. Südarab., **spp. n.**—*T. punctulatus* **sp. n.** Nebraska, SMITH (246) Ent. News **17**.—*T. erassiformis* (210), *clarconis*, *intermedius*, (211), Kansas, **spp. n.**, VIERECK Philadelphia Trans. Amer. Ent. Soc. **32**.

Tachytella **gen. n.** *Tachysphex* Gruppe (56), *aureopilosa* **sp. n.** Kapland (57), BRAUNS Wein Verh. Zool. bot. Ges. 1906.

Tachytes salra Sokotra, KOHL (48) Hym. Südarab., **sp. n.**

Thynnus albopilosellus New Guinea, CAVERON (215) 's Gravenhage Tijdschr. Ent. **49**, **sp. n.**—*T. dallatorrei* **nom. n.** für *bidens* Sauss., *substitutus* **nom. n.** für *varipes* F. Sm., (160), *remissus* **nom. n.** für *novaræ* Sauss. (161), SCHULZ Spolia hymenopt.—*T. racoritzai* (59) pl. ii f. 7, *holomelas* (61) f. 8, ANDRÉ Résult. Belgica, Zoologie.

Tiphia waldonii (302), *brunnicornis*, *egregia* (303), *relativa* (304), Connecticut, VIERECK Ent. News **17**, **spp. n.**

†*Tracheliodes mortuellus* **sp. n.** Florissant, COCKERELL (45) Cambridge Bull. Mus. Harvard **50**.

Trypoxylon peltopsis Mediterranean (3), *egyptium* Egypt, *schmiedeknechtii* Java, (34), *senegambicum* Senegal (35), KOHL, Hym. Südarab., **spp. n.**—*T. regularis* (205), *quintilis* (206), Kansas, **spp. n.**, VIERECK Philadelphia Trans. Amer. Ent. Soc. **32**.—*T. montanum* **nom. n.** für *placidum* Cam., SCHULZ (212) Spolia hymenopt.

Xanthampulex **gen. n.** Ampulicinae (183), *trifur* **sp. n.** Celebes (184), SCHULZ Spolia hymenopt.

(*Dasyllabis nursei* n. n. (= *Mutilla suspecta* Nurse) ANDRÉ, Paris Ann. Soc. ent. **72**, 1903.)

(*Ephuta* (*Traumatotomutilla*) *lineifera*, *ingens*, *graviceps*, *vulneriventris*, *trilineata*, *hydrocephala*, ANDRÉ, T.c. spp. n.)

(*Ephutomorpha laematogastra*, *albosignata*, *fulvescens*, *rugidorsis*, *acnifrons*, *oviventris*, *uniformis*, *frogatti*, spp. n., *morosa* var. *rufithorax*, var. n., *acnifrons* var. *cupreiventris* var. n., ANDRÉ, T.c.)

(*Mutilla transvaalensis*, *arcuaticeps*, Transvaal, ANDRÉ, Paris Bul. soc. ent.

1905.—*M. mercei*, *schulzi*, *luctifera*, *scenotata*, ANDRÉ, Paris Ann. Soc. ent. **72**, 1903, spp. n.)

(*Odontotomutilla sekkimensis* ANDRÉ, T.c., sp. n.)

(*Pompilus suspectus* SAUSSURE, Mission Pavie, **3**, sp. n.)

(*Priocnemis paredeutatus* SAUSSURE, T.c., **3**, sp. n.)

(*Pseudomethoca xiphognatha* ANDRÉ, Paris, Ann. Soc. ent. **72**, 1903, sp. n.)

(*Rhopotomutilla camponotiformis* ANDRÉ, T.c., sp. n.)

(*Salix parianus* SAUSSURE, Mission Pavie, **3**, sp. n.)

(*Sapyga wagnerellia* DE BUYSSON, Paris Bul. Soc. ent. **1904** sp. n.)

(*Tachysphex rufiventralis* FERTON, Paris Ann. Soc. ent., **74**, n. sp.)

(*Tallium konowi* ANDRÉ, Paris Ann. Soc. ent. **72**, 1903, sp. n.)

(*Thyoptes glaber* ANDRÉ, T.c., sp. n.).

FORMICIDAE.

General.

Die Ameisen. Schilderung ihrer Lebensweise, ESCHERICH Braunschweig (xx + 232).

Biologie der Ameisen, Tl 2. Die neueren Arbeiten (1905-1906). (Zusammenfassende Uebersicht), ESCHERICH Zool. Centralbl. Leipzig **13** 1906 (405-440).

Polymorphismus der Ameisen., ergatormorphism etc., wings of ♀: EMERY Biol. Centralbl. Leipzig **26** (624-630).—Auch in: Festschrift für J. Rosenthal Tl. I (33-40).

Die Ameisen, KNAUER, (Aus Natur u. Geisteswelt, Bd. 94.) Leipzig, (iv + 156).

Anatomy of head, *Lasius niger*; JANET No. **3**, (1-40), pls. i-v.

Synoptic tables of *Formicidae* of Luxemburg, WASMANN Arch. Inst. Luxemburg 1906 (1-20) 2 pls.

Ashmead's classification criticised, EMERY (717, 718) Zool. Anz. **29**.

Catalogue of *Formicidae* of Himalaya, and nature of the fauna, FOREL (83-91) Lausanne Bul. Soc. Sci. Nat. **42**.

List of the *Formicidae* of New England, WHEELER Boston Occ. Paprs. Soc. Nat. Hist. **7** 1906 (1-24).

On the founding of colonies by queen ants, with special reference to the parasitic and slave-making species, WHEELER New York Bull. Amer. Mus. **22** 1906 (33-105) pls. viii-xiv.

Biologie der spinnenden Ameisen, KOHL Natur u. Offenb. Münster **52** 1906 (166-169).

Certain maladjustments in the relations of ants to plants. WHEELER New York Bull. Amer. Mus. **22** 1906 (403-418).

Ameisenpflanzen. ULE Bot. Jahrb., Leipzig **37** 1906 (335-352) 2 Taf.

Eigentümliche mit Pflanzen durchwachsene Ameisennester am Amazonasstrom, ULE Natw. Wochenschr. Jena **21** (145-150) 1 Taf.

Ants not useful on myrmecophilous plants. NIEUWENHUIS-VON UEXKÜLL-GÜLDENBAND Amsterdam Proc. Sci. K. Acad. Wet. **9** (150-156), (English); Amsterdam Versl. Wis. Nat. Afd. K. Akad. Wet. **15** (69-75) (Dutch).

Blindschleiche und Waldameisen. BRÜNING Wochenschr. Aquarienkunde Braunschweig **3** 1906 (542-544).

Beobachtungen an künstlichen Ameisennestern, ERNST Biol. Centralbl. Leipzig **26** (210-220).

Remplacement des muscles vibrateurs du vol par des colonnes d'adipocytes, après le vol nuptial. JANET Paris C.-R. Acad. sci. **142** 1906 (1095-1097) av. fig.

Olfaction and reconnaissance, PIÉRON C.-R. Acad. Sci. **143** (845-848); Paris C.-R. Soc. Biol. **61** (385-387) also (433-435) and (471-473).

Special.

Anochetus mayri australis subsp. n., EMERY (117) Firenze Boll. Soc. entom. **37**.

Atta; revision of subgenm. *Moellerius* and *Acromyrmex* with the following spp. n., *A. (Moellerius) silvestrii* Cordoba (42), *A. (Acromyrmex) mesonotalis* Peru (46), *laticeps* S. America (50), *boliviensis* Bolivia, *pubescens* Paraguay, (51); EMERY Bologna Mem. Acc. sci. Ser. 6 **2**.—*A. (Trachymyrmex) pruinosa* Buenos Aires (163), EMERY Firenze Boll. Soc. entom. **37**, sp. n.

Azteca barbifex (242), *duckei* (243), *huberi* (244), *goeldii* (245), Amazons, spp. n.; *chartifex* subsp. n. *decipiens* (236) and var. n. *lanians* (237), *trigona* subsp. n. *mathildae* and var. n. *spuria* (238), *traili* var. n. *elator*, *alfari* var. n. *aequalis*, (239) and subspp. n. *cecropiaca* and *tuberosa* (240); *A. paraensis* var. n. *gnava* (241); FOREL Bruxelles Ann. Soc. ent. Belgique **50**.

Basiceros nom. n. für *Ceratobasis* F. Sm., SCHULZ (156) *Spolia hymenopt.*

Bothriomyrmex; mœurs parasitiques temporaires; SANTSCHI Paris Ann. soc. ent. **75** (363-392).

Brachymyrmex brevicornis Buenos Aires (180), *myops* Brazil (182), EMERY Firenze Boll. Soc. entom. **37**, spp. n.

Camponotus rogti Taurus sp. n., *maculatus* var. n. *bosphoricus*, (187), and subsp. n. *caciliæ* (188), FOREL Bruxelles Ann. Soc. ent. Belgique **50**.—*C. silvestrii* Matto Grosso (194) sp. n.; *maculatus luteolus* (188), *punctulatus imberbis* S. Fé, (190), subspp. n.; EMERY Firenze Boll. Soc. entom. **37**.—*C. maculatus intonsus* (29), *liocnemis*, *madecassa*, (30), *barbaricus* (31), subspp. n., EMERY Bologna Rend. Acc. Sci. n. ser. **9**.—*C. fiebrigi* Paraguay, FOREL (247) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.—*C. herculeanus ligniperdus* var. n. *rubens*, WHEELER (41) Psyche, **13**.

Carebarella gen. n. near *Solenopsis* (137), *bicolor* sp. n. Misiones (138), EMERY Firenze Boll. Soc. entom. **37**.

Crematogaster arata Misiones, EMERY (140) Firenze Boll. Soc. entom. **37**, sp. n.—*C. lineolata* Say, habits, WHEELER New York Bull. Amer. Mus. **22** (1-18) plates i-vi.—*C. laboriosa matsumurai* pl. xli f. 1, WHEELER (312) New York Bull. Amer. Mus. **22**.

Cryptocerus incertus Paraguay (171), *adolphi* Matto Grosso, *foliaceus* Peru, (172), EMERY Firenze Boll. Soc. entom. **37**, spp. n.—*C. duckei* Amazons, *silvae* Colombia, (233), spp. n.; *setulifer orbis* subsp. n. (231), *pilosus* st. n. *fiebrigi* (235); FOREL Bruxelles Ann. Soc. ent. Belgique **50**.

Ctenopyga townsendi sp. n. Mexico, ASHMEAD (29) f. 4 Washington Proc. ent. Soc. **8**.

Cyphomyrmex parallelus Matto Grosso, EMERY (161) Firenze Boll. Soc. entom. **37** sp. n.

Dolichoderus germaini leviuseculus subsp. n. EMERY (173) T.c.

Dorylidae; classification, ASHMEAD (23-31) Washington D.C. Proc. ent. soc. **8**.

Dorymyrmex mucronatus Chubut, EMERY (174) Firenze Boll. Soc. entom. **37**, sp. n.—*D. pyramicus* var. n. *bicolor*, WHEELER (342) New York Bull. Amer. Mus. **22**.

Eciton silvestrii Uruguay (109), *planidorsum* Paraguay (110), spp. n.; *latiscapum hospes* subsp. n. (11); EMERY Firenze Boll. Soc. entom. **37**.—*E. praeator* ♂, FOREL (246) Bruxelles Ann. Soc. ent. Belgique **50**.

Ectatomma (Gnamptogenys) trigonum Nova Friburgo, EMERY (114) Firenze Boll. Soc. entom. **37**, sp. n.

Erebomyrma peruviana Marcapata, EMERY (139) T.c., sp. n.

Euprenolepis subg. n. for *Prenolepis procer*, EMERY (134) Bruxelles Ann. Soc. ent. Belgique **50**.

Forelius chalybaeus Patagonia, EMERY (176) Firenze Boll. Soc. entom. **37**, sp. n.

Formica morsei sp. n. New England WHEELER (39) pl. iv f. i Psyche **13**.—*F. moki* sp. n. Grand Cañon, WHEELER (343) New York Bull. Amer. Mus. **22**.—*F. pratensis*, excrement and excrement-like objects on nests of, WASMANN (42) Zs. wiss. Insektenbiol. **2**.—*F. rufa*, times of appearance of sexes in one nest, WANACH (235) Berliner ent. Zs. **50**.—*F. fuliginosa* in Japan, DU BUYSSON (101, 102) Rev. Ent. Caen **25**.

Formicoxenus nitidulus (= *Stenamma westwoodi* auctt. Brit.) ♂, BAGNALL (210) Ent. Mag. London **42**.

Iridomyrmex itoi var. n. *abbotti* Japan pl. xli f. 3, WHEELER (318) New York Bull. Amer. Mus. **22**.

Lasius flavus subsp. n. *nearcticus*, WHEELER (38) Psyche **13**.—*L. niger*, food oviposition of workers, nest founding, DE LANNY (43-46) Bruxelles Ann. Soc. ent. Belgique **50**; Gründung neuer Kolonien, MRÁZEK Zs. wiss. Insektenbiol. **2** (109-111).—*L. fuli-*

ginosus, duration of colony, GIARD Feuille jeunes natural. Paris **36** (30).

Leptogenys; injurious habits, COOK Science **23** (187-189) and WHEELER (348-350) T.c.

Leptothorax congruus Sm., WHEELER (316, 317) New York Bull. Amer. Mus. **22**.

Monomorium nipponense (310), *triviale* (311), WHEELER New York Bull. Amer. Mus. **22** spp. n.—*M. destructor* in N. America, WHEELER Ent. News **17** (265).

Myrmecina graminicola subsp. n. *nipponica* Japan, WHEELER (307) New York Bull. Amer. Mus. **22**.

Myrmecocystus; Rassegna critica delle specie palaartiche di, EMERY Bologna Mem. Acc. sc. **3** (173-187) 35 fig.—*M. setipes* var. *turcomanicus*, Vertheidigungsprozesse, FAUSSEK St. Petersburg Zap. Russ. Geogr. Obsč. **27** (1-192).

Myrmelachista rubiginosa Buenos Aires, EMERY (185) Firenze Boll. Soc. entom. **37**, sp. n.

Myrmica pachei Himalaya, FOREL (79) Lausanne Bul. Soc. sci. nat. **42**, sp. n.—*M. rubra laevinodis* var. n. *bruesi*, WHEELER (38) Psyche **13**.

Nylanderia subg. n. for *Prenolepis viridula*, EMERY (134) Bruxelles Ann. Soc. ent. Belgique **50**.

Oecophylla smaragdina nat. history, BINGHAM 27-30 Fascic. Malay. Zool. **3**.

Oligomyrmex anophthalmus Amazons (138), with subsp. *punctatorugosa* (139), EMERY Firenze Boll. Soc. entom. **37**, sp. n.

Orthonotomyrmex nom. n. for *Orthonotus* Ashm.; ASHMEAD (31) Washington Proc. Ent. Soc. **8**.

Pachycondyla (Pseudoponera) sauteri sp. n. Japan (304) pl. xli f. 66, WHEELER New York Bull. Amer. Mus. **22**.

Pheidole desertorum sp. n. (337), with varr. *comanche* and *maricopa* (339), Grand Cañon, WHEELER T.c.—*P. taurus* (142), *carifrons* (144), *silvestrii* (146), *strobili* (149), *reticulatus* (157), *brevis-barbis* (158), *silvestrii* (159), S. America, spp. n.; *bergi subparallela* subsp. n. (145), *risi trachyderma* subsp. n. (148), *cornatula imbecillis* var. n. (151), *gertrudae capillata* subsp. n. (151),

triconstricta varr. n. *ambulans* and *nubila* (153), *fallax* var. n. *retifera*, *flavens* *rudigenis* (155), *bispinosus* var n. *semistriata* (158); EMERY Firenze Boll. Soc. entom. **37**.

Polyrhachis alexandri sp. n. Java (375), KARAWAIEW Zs. wiss. Insektenbiol. **2**, n. sp.

Ponera japonica sp. n. Japan, WHEELER (306) New York Bull. Amer. Mus. **22**.—*P. clavatula* Posadas, EMERY (116) Firenze Boll. Soc. entom. **37**, sp. n.—*P. contracta*, habits, CHITTY (212) Ent. Mag. London **42**.

†*Pouera hendersoni* sp. n. Florissant, COCKERELL (28) Ent. News **17**.

Prenolepis kincaidi sp. n. Bermudas, WHEELER (350) New York Bull. Amer. Mus. **22**.—*P. silvestrii* Buenos Aires, EMERY (186) Firenze Boll. Soc. entom. **37**, sp. n.—*P. viridula* characters; cf. also *Nylanderia* and *Euprenolepis*; EMERY (130) Bruxelles Ann. Soc. ent. Belgique **50**.—*P. flavipes*, WHEELER (320, 321) New York Bull. Amer. Mus. **22**.

Pristomyrmex japonicus pl xli f. 7, WHEELER (317) T.c.

Pseudomyrma depressa, *oki*, (225), *kurokii* (226), Colombia, *duckei* Amazons (227), *alfari* Costa Rica (228), spp. n.; *acanthobia laeivertex* subsp. n. (227), *elongata* var. n. *tandem* (228), *biconvexa* var. n. *longiceps*, *nigropilosa* *laticeps* subsp. n. (229), *sericea* varr. n. *ita* and *vinneni*, *tenuis* var. n. *pittieri* (230); FOREL Bruxelles Ann. Soc. ent. Belgique **50**.—*P. subtilissima tenuissima* subsp. n., EMERY (119) Firenze Boll. Soc. entom. **37**.

Rhizomyrma pachycera Paranà, EMERY (182) T.c., sp. n.

Solenopsis silvestrii Uruguay (120), *decipiens* (126), La Plata, *albidula* (129), *tetracantha* (131), Nuñez, *patagonica* Chubut (132), *minutissima* Nuñez (133), *brevipes* Entre Rios (135), EMERY T.c., spp. n.—*S. geminata* var. n. *aurea* WHEELER (336) New York Bull. Amer. Mus. **22**.

Stenamma ovstoni sp. n. Japan (314), *aciculatum brumicorne* (315) pl. xli f. 14, WHEELER T.c.—*S. sagei pachei* subsp. n., FOREL (82) Lausanne Bull. Soc. Sci. Nat. **42**.—*S. barbarum* var. n. *semoni*, FOREL (190) Bruxelles Ann. Soc. ent. Belgique **50**.

(N-9720 j)

Strumigenys silvestrii Buenos Aires (168), *conspersa* Salta, *schmalzi* Brazil, (169), spp. n.; *smithi prospiciens* Misiones (167) subsp. n., EMERY Firenze Bull. Soc. entom. **37**.

Sysphincta watasei sp. n. Japan, WHEELER (303) New York Bull. Amer. Mus. **22**.

Technomyrmex gibbosus sp. n. Japan pl. xli f. 4, WHEELER (319) T.c.

Tomognathus sublaevis, natural history, VIEHMAYER (58-67) pl. iii Dresden Sitz. Ber. Isis 1906.

Typhlomyrmex clavicornis Bolivia, EMERY (112) Firenze Boll. Soc. entom. **37**, sp. n.—*T. clavicornis* var. n. *divergens*, FOREL (249) Bruxelles Ann. Soc. ent. Belgique **50**.

Vollenhovia emeryi sp. n. Japan pl. xli figs. 10 and 11, WHEELER (312) New York Bull. Amer. Mus. **22**.

Wasmannia auropunctata nigricans var. n., EMERY (161) Firenze Boll. Soc. entom. **37**.

(†*Dimorphomyrmex theryi* EMERY, Paris Bul. soc. ent. 1905, sp. n.)

(*Eusphinctus duchossoyi* ANDRÉ, Rev. Ent. **24** 1905 sp. n.)

(*Odontomyrmex* gen. n. *quadridentatus* sp. n. ANDRÉ, Rev. ent. Caen **23** 1904).

CHRYSIDAE.

Chrysis roiensis E. Africa, DU BUYSSON (111) Rev. ent. Caen **25**, sp. n.—*C. monticellii* sp. n. Java; *C. laborans* Costa; BUYSSON Napoli Annuario Museo zool. **2** No. 2 1905.—*C. miri* Philippines, BROWN (685) Philipp. J. Sci. **1**, sp. n.—*C. (Gonochrysis) kansensis*, *C. (Tetrachrysis) equidens* (193), *kahli*, *pattonella*, (194), *snowi* (195), Kansas, spp. n., VIERECK Philadelphia Trans. Amer. Ent. Soc. **32**.—*C. jensenii* sp. n. Mendoza Argentina, BUYSSON Kjöbenhavn Ent. Medd. **3**.—*C. viridula*, ♀ habits; ADLERZ Arkiv. Zool. **3** No. 8.—*C. provancheri* nom. n. für *aureichaleea* Prov., SCHULZ (154) Spolia hymenopt.

Hedychridium cockerelli Colorado, DU BUYSSON (111) Rev. Ent. Caen **25**, sp. n.

Heptachrysis roberteana Cape Colony, CAMERON (415) Grahams Town Rec.

Albany Mus. **1**, **sp. n.**—*H. novae-guineae* **sp. n.** New-Guinea, CAMERON Nova Guinea Livr. i (19).

Hexachrysis whiteana **sp. n.** Cape Colony, CAMERON Graham's Town Rec. Albany Mus. **1** (112).

Notozus connexus **sp. n.** Kansas, VIERECK (192) Philadelphia Trans. Amer. Ent. Soc. **32**.

Parnopes imberba Madagascar, DU BUYSSON (112) Rev. Ent. Caen **25**, **sp. n.**

Pentachrysis leira **sp. n.** Cape Colony, CAMERON, Graham's Town Rec. Albany Mus. **1** (416).—*P. papuana* **sp. n.** New-Guinea, CAMERON Nova Guinea **5** Livr. **1** (49).

Tetrachrysis dalyana (413), *kloofensis* (414), *soleana* (415), Cape Colony, CAMERON Graham's Town Rec. Albany Mus. **1**, **spp. n.**

The following Chrysidæ have been previously recorded in the Zoological Record.

(*Chrysis baeri*, DU BUYSSON. Paris Bul. Soc. ent., **1903**, (311), **sp. n.**—*C. ceciliæ*, Java, *rüppelii* Abyssinie, *gheringhi* Brésil, *tellinii* Erythræa, *distrecta* Sierra Leone, *goyasensis* Brésil, *myops* Argentine, *ypirangensis* Brésil, *alfkenella* Californie, *schulzi* Célèbe, *kathereri* Turquie, *rubropicta* Abyssinie, *alluandi* Madagascar, DU BUYSSON, Rev. ent. Caen **23**, 1904, **spp. n.**)

(*Hedychridium andreinii* Erythræa, DU BUYSSON, *moriceei* Zaute T.c. **spp. n.**)

(*Hedychrum alluandi* Madagascar, DU BUYSSON, T.c. **sp. n.**)

(*Holopyga wagneriella* Beloutchistan, T.c. **sp. n.**)

(*Notozus decorsei* Afrique central, DU BUYSSON, T.c. **sp. n.**)

(*Parnopes oberthuri*, DU BUYSSON, T.c. *digueti* Mexique **spp. n.**)

ICHNEUMONIDÆ.

†*Acoenites defunctus* Colorado, BRUES (493) New York N.Y. Bull. Amer. Mus. **22**, **sp. n.**

Aeronus enderleini **sp. n.** Deutsch Ost-Afrika, SCHULZ (117) Spolia hymenopt.

Adelopimpla **nom. n.** für *Ctenopimpla* Cam., SCHULZ (116) T.c.

Adiostola polita **sp. n.** Japan, ASHMEAD (173) Washington D.C. U. S. Nation. Mus. Proc. **30**.

Agrypon *singaporensis* Singapore, *bicolor* Ceylon, *indicum* Ostendien, (124), *nigricans* Neu Guinea, *birói* N. S. Wales, (125), *concolor* Mexico (126), **spp. n.**, SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Allocamptus cubitalis Ost-Afrika (148), *novo-guineensis* Neu-Guinea, *venezuelanus* Venezuela, (149), **spp. n.**, SZÉPLIGETI T.c.

Allotheca **gen. n.**, *annulipes* **sp. n.** S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5** (103-104).

Amblyteles cephalotes Riom, BERTHOUMIEU (60) Echange **22**, **sp. n.**

Amorphota augusta Kansas (180), *confluens* (217), *galvestonensis* (219), *ferruginosa* (220), Texas, **spp. n.**, VIERECK Philadelphia Trans. Amer. Ent. Soc. **32**.

Angitia autumnalis **sp. n.** Kansas, VIERECK (181) Philadelphia Pa., Trans. Amer. Ent. Soc. **32**.

Anisojoppa **gen. n.**, *lutea* **sp. n.** Natal, CAMERON Cape Town Ann. S. Afric. Mus. **5** (168).

Anomalon japonicum Japan, CAMERON, (98) Entomologist 1906, **sp. n.**—*A. trichosomum* Australia, CAMERON (182) T.c., **sp. n.**

Apechthis orbitalis pl. xiii f. 2, *sapporoensis* **spp. n.**, Japan, ASHMEAD (178) Washington D.C. U. S. Nation. Mus. Proc. **30**.

Arotes ? *flavescens* Cape Colony, CAMERON Cape Town Ann. S. Afric. Mus. **5** (130), **sp. n.**

Asphragis ? *flavo-orbitalis* Cape Colony, CAMERON (18) Entomologist London **29**, **sp. n.**

Asthenara rufocincta **sp. n.** Japan, ASHMEAD (183) Washington D.C. U. S. Nation. Mus. Proc. **30**.

Atelente pallidipes **sp. n.** Japan, ASHMEAD (186) Washington D.C. U. S. Nation. Mus. Proc. **30**.

Atrometus sericeus Singapore, *tricolor* Paraguay, **spp. n.**, (126), SZÉPLIGETI

Ann. Hist.-Nat. Mus. Mus. Nat. Hung. 4.

Banchus reparandus **nom. n.** für *tricolor* Cam., SCHULZ (95) *Spolia hymenopt.*

Barylypa pilosella (277), *interstitialis*, *rufolineata*, (278), *variornata*, *erythro-cera*, (279), Baluchistan, CAMERON Bombay J. Nat. Hist. Soc. 17, **spp. n.**

Bassus japonicus **sp. n.** Japan, ASHMEAD (183) Washington D.C. U. S. Nation. Mus. Proc. 30.

Bathymetis **gen. n.** near *Xorides*, *longipes* **sp. n.** Sikkim, CAMERON (251) Entomologist 1906.

Bathymetis sapporoensis **sp. n.** Japan, ASHMEAD (172) Washington D.C. U. S. Nation. Mus. Proc. 30.

Buckeckerius **gen. n.** anomalous (280), *perforatus* **sp. n.** Fernando Po (285), SCHULZ *Spolia hymenopt.*

Calliclisis inerta **sp. n.** Japan, ASHMEAD (182) pl. xiv f. 1, Washington D.C. U. S. Nation. Mus. Proc. 30.

Campoplex hakonensis, *bicoloripes*, **spp. n.**, Japan, ASHMEAD (184) Washington D.C. U. S. Nation. Mus. Proc. 30. — *C. japonicus* Japan, CAMERON (99) Entomologist 1906, **sp. n.** — *C. fulvicornis*, *rufoscapus*, *erythrospilus*, *crassiventris*, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. 5 (93), **spp. n.** — *C. wyomingensis* **sp. n.** Wyoming, VIERECK (242) Philadelphia Trans. Amer. Ent. Soc. 32.

Charops cariniceps S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. 5 (92), **sp. n.** — *C. luteus* Neu-Guinea, *pilosus* Peru, (127), *similis* Bolivien, *albistylus* Peru, (128), *brasilensis* Brasilien (129), **spp. n.** SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. 4.

Cratocryptodes **nom. n.** für *Crato-cryptus* Cam., SCHULZ (123) *Spolia hymenopt.*

Cremastus indicus Ost.-Indien, *australiensis* N. S. Wales, (152), *niger* Bolivien (153), **spp. n.**, SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. 4.

Cryptaulax **gen. n.**, *erythrostomus*, *ruficeps*, **spp. n.**, CAMERON Cape Town Ann. S. Afric. Mus. 5 (150–152).

Cryptus sokotranus Sokótra, KOHL (118) Hym. Südarab., **sp. n.** — *C. violaceo-*

tinctus Quetta (284), *nursei* Kashmir (285), CAMERON Bombay J. Nat. Hist. Soc. 17, **spp. n.** — *C. spilocephalus*, *simillimus*, *rufoplagiatus*, *natalensis*, *leighi*, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. 5 (137–141), **spp. n.** — *C. alberti* **sp. n.** Japan, ASHMEAD (175) Washington D.C. U. S. Nation. Mus. Proc. 30. — *C. consobrinus* **sp. n.** Arizona, VIERECK (225) Philadelphia Trans. Amer. Ent. Soc. 32. — *C. perturbator* **nom. n.** für *tuberculatus* Cam., SCHULZ (124) *Spolia hymenopt.*

Crytea **gen. n.**, *foreata*, *fuscomaculata*, *lutea*, *ravicornis*, **spp. n.**, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. 5 (171–173).

Ctenotoma **gen. n.**, *fuscipennis*, *nigriceps*, *ruficeps*, **spp. n.**, S. Africa, CAMERON T.c. (127–129).

Cubocephalus nigriventris, host *Tetropium*, DONISTHORPE (41) Ent. Mag. London 42.

Cymatoneura nugalalis **sp. n.** Fernando Po, SCHULZ (275) *Spolia hymenopt.*

Delanlax **gen. n.**, *rufus* **sp. n.** S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. 5 (111–112).

Dicoelotus pulex, *lugens*, Algérie, BERTHOUMIEU (60) Echange 22, **spp. n.**

Elasmognathias **nom. n.** for *Elasmognathus* Ashm., ASHMEAD (31) Washington Proc. Ent. Soc. 8.

Enicospilus melanospilus **sp. n.** New-Guinea, CAMERON Nova Guinea 5 Livr. I (48).

Ephialtes krieckbaumeri **nom. n.** für *geniculatus* Kriechb., SCHULZ (115) *Spolia hymenopt.*

Epirhyssa tuberculata **sp. n.** Borneo, CAMERON Singapore J. Straits R. As. Soc. No. 46 (114).

Epiurus annulitarsis, *hakonensis* (179), *persimilis* (180), **spp. n.**, Japan, ASHMEAD Washington D.C. U. S. Nation. Mus. Proc. 30.

Eristicus tibialis S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. 5 (181), **sp. n.**

Erythrophion **gen. n.**, *ferrugineus* **sp. n.** Cape Town, CAMERON T.c. (87–88).

Erythropimpla fruhstorferi Celebes (105), *obiensis* Obi (107), *aethiopica*

Usambara (109), *himalayensis* Sikkin (110), *celebensis* Celebes (111), SCHULZ *Spolia hym.*, **spp. n.**

Euryophion **gen. n.**, *nigripennis* **sp. n.** Natal, CAMERON Cape Town Ann. S. Afric. Mus. **5** (83).

Exephanes nigromaculatus, *flavomaculatus*, S. Africa, CAMERON (161) T.c., **spp. n.**—*E. koebeli* **sp. n.** Japan, ASHMEAD (170) Washington D.C. U. S. Nation. Mus. Proc. **30**.

E. nigromaculatus ♂, CAMERON (335) Cape Town Trans. S. Afric. Phil. Soc. **16**.

Exetastes nitidus **sp. n.** Quetta, CAMERON (274) Bombay J. Nat. Hist. Soc. **17**.—*E. peronatus* Cape Colony, CAMERON Cape Town Ann. S. Afric. Mus. **5** (101), **sp. n.**

Exochus hakonensis **sp. n.** Japan, ASHMEAD (181) Washington D.C. U. S. Nation. Mus. Proc. **30**.

Fileanta rufo-cauda **sp. n.** Quetta, CAMERON (287) Bombay J. Nat. Hist. Soc. **17**.

Gabunia ruficeps Natal, CAMERON (30) Entomologist **39**, **sp. n.**

Garrana **gen. n.** *Phygadeuonini*, *maculipes* **sp. n.** Australia, CAMERON (180) T.c.

Glypta nigro-ornata Cape Colony, CAMERON (117) Cape Town Ann. S. Afric. Mus. **5**, **sp. n.**

Glyptojoppa **gen. n.**, *sulcata* **sp. n.** Tenasserim; CAMERON (229) Entomologist 1906.

Gonioprymnus **gen. n.**, *mauliceps* **sp. n.** Cape Colony, CAMERON Cape Town Ann. S. Afric. Mus. **5** (126).

Habronyx nigra **sp. n.** Chili (123), SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Hemiehneumon anceps Val d'Isère, BERTHOUMIEU (60) Echange **22**, **sp. n.**

Hemiephialtes **gen. n.** *Pimplini*, *glyptus* **sp. n.** Japan pl. xiii f. 1, ASHMEAD (177) Washington D.C. U. S. Nation. Mus. Proc. **30**.

Hemitcles sapporoensis **sp. n.** Japan, ASHMEAD (174) Washington D.C. U. S. Nation. Mus. Proc. **30**.—*H. antarcticus*, TOSQUINET (53) pl. ii f. 5 Résult. Belgica, Zoologie.—*H. biannulatus*, parasite of *Trichoptera*, NIELSEN Zs. wiss. Insektenbiol. **2** (385–386).—*H.*

caducus **nom. n.** für *geniculatus* Cam., SCHULZ (125) *Spolia hymenopt.*

Henicophatnus pilosus Cape Colony, CAMERON Cape Town Ann. S. Afric. Mus. **5** (166), **sp. n.**

Henicospilus bantu **sp. n.** Fernando Po, SCHULZ (278) *Spolia hymenopt.*—*H. damarensis*, *natalensis*, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5** (81), **spp. n.**—*H. fenestralis* (134), *seminiger*, *africanus*, *brevipennis*, (135), Ostafrika, *capensis* Capland, *madagascariensis* Madagascar, *angustatus* Ostafrika, (136), *communis* Ostafrika (137), *borneensis* Borneo, *abdominalis* Ceylon, *xantusi* Borneo, (138), *flagellaris*, *biroi*, Neu-Guinea, (139), *novo-guineensis*, *gracilis*, Neu-Guinea, (140), *interruptus*, *nigricornis*, *cingulatus*, Neu-Guinea, (149), *celebensis*, *rufinervis*, Celebes, *diversus*, *nigrinervis*, Neu-Guinea, (142), *lunulatus* Bismark-Archipel, *aequalis* Neu-Guinea, *incompleteus* Celebes, (143), *dispilus*, *fuscatus*, Brasilien, *trispilus* Bolivien, (145), *elegans* Brasilien, *seminiger*, *xanthocarpus*, Bolivien, (146), *persimilis*, Peru, *xanthostigma*, *fuscipennis*, *brasilicnsis*, Brasilien, (147), **spp. n.**, SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Holcopimpla **gen. n.**, *nigricornis* **sp. n.** S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5** (113).

Hymenobosmina pomonellae **sp. n.** Cape Town, CAMERON Trans. S. Afric. Phil. Soc. **16** (338).

Ichnemon spicieornis (59), *arctieornis* (60), Algerie, *enisienis* Mont. Cenis (61), BERTHOUMIEU Echange **22**, **spp. n.**—*I. ruficaudis*, *natalensis*, **spp. n.**, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5** (159).—*I. hemimelanarius* **sp. n.** Arizona (226), VIERECK Philadelphia Trans. Amer. Ent. Soc. **32**.—*I. flavofacialis* **sp. n.** Pennsylvania, VIERECK (245) T.c.—*I. ashmeadi* **nom. n.** für *imitator* Ashm., SCHULZ (128) *Spolia hymenopt.*

Idecthis biconjunctus Kansas (180), *paenervialis* Texas (216), **spp. n.**, VIERECK Philadelphia Trans. Amer. Ent. Soc. **32**.

Irabatha **gen. n.** *Mesostenini*, *albispina* **sp. n.** New Guinea, CAMERON Nova Guinea **5** Livr. 1 (47).

Laphyetes ? *trilineatus* Australia, CAMERON (182) Entomologist 1906, sp. n.

Lareiga coerulea sp. n. Himalayas, CAMERON Zs. Hymenopter. 6 (159).

Lassonota baluchistanensis sp. n. Quetta, CAMERON (283) Bombay J. Nat. Hist. Soc. 17.

Leptodemas cariniscutis sp. n. Cape Town, CAMERON Trans. S. Afric. Phil. Soc. 16 (330).

Leptophatnus, gen. n., *ruficeps* sp. n. Cape Colony, CAMERON Cape Town Ann. S. Afric. Mus. 5 (165-166).

Lienella canaliculata, *quadriannulata*, *ruficornis*, *latifasciata*, S. Africa, CAMERON T.c. (155-159), spp. n.

Limnerium fulvipalpis, *capense*, *peringueyi*, *sessilincervis*, *longiceps*, *melanostomum*, *areolatum*, S. Africa, CAMERON T.c. (97-100) spp. n.—*L. quettaense*, *forticarinatum*, (280), *parricarinatum* (281), Baluchistan, CAMERON Bombay J. Nat. Hist. Soc. 17, spp. n.—*L. himalayense*, *erythropus*, Simla, CAMERON (249) Entomologist 1906, spp. n.—*Limnerium lawrencei* (178), *rigilis* (179), Kansas, spp. n., VIERECK Philadelphia Trans. Amer. Ent. Soc. 32.

Lissichneumon gen. n., *levis* sp. n. Simla, CAMERON (227) Entomologist 1906.

Lissonota lineaticeps, *aethiopica*, *fulvipalpis*, *fuscicornis*, *pulchripennis*, *marshalli*, *L. (?) spilocephala*, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. 5 (119-124), spp. n.

Macrocentrus eapensis S. Africa, CAMERON Cape Town Afric. Mus. T.c. (30), sp. n.

(?) *Macrophatnus balteatus*, *M. (?) trilineatus*, S. Africa, CAMERON T.c. (174-175), spp. n.

Matsumuraius gen. n. *Joppini* (169), *grandis* sp. n. Japan (170) pl. xii f. 1, ASHMEAD Washington D.C. U. S. Nation. Mus. Proc. 30.

Megarhyssa japonica sp. n. Japan, ASHMEAD (176) T.c.

Melanichneumon japonicus sp. n. Japan, ASHMEAD (171) T.c.

Mesoleptus and *Tryphon*; Gravenhorst's types examined and the consequent synonymy recorded, PFANKUCH (81-85,

etc., etc.), Zs. Hymenopter. Teschen-dorf 6.

Mesostenus octocinctus sp. n. Japan, ASHMEAD (175) Washington D.C. U. S. Nation. Mus. Proc. 30.—*M. rhodesiae lightfooti*, *clizabethae*, *lerifrons*, *lissonotus*, *parridensis*, *albipalpis*, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. 5 (145-149), spp. n.—*M. tricarinatus* sp. n. Quetta, CAMERON (286) Bombay J. Nat. Hist. Soc. 17.

†*Mesostenus modestus* Colorado, BRUES (492) New York N.Y. Bull. Amer. Mus. 22, sp. n.

Metopius erythrosipilus, *nigroornatus*, *latibalteatus*, *alboornatus*, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. 5 (132-136), spp. n.—*M. harbeeki* sp. n. Pennsylvania, SKINNER (150) Ent. News 17.—*M. recedens* nom. n. für *erythropus* Cam., SCHULZ (98) Spolia hymenopt.

Nawaia gen. n. *Banchini* (184), *japonica* sp. n. Japan (185) pl. xiv f. 3, ASHMEAD Washington D.C. U. S. Nation. Mus. Proc. 30.

Neobosmina pilosella Simla, CAMERON (250) Entomologist 1906, sp. n.

Nesolinoceras gen. n. *Cryptini* (294), *espinii* sp. n. Cuba (295), ASHMEAD Canad. Entomol. 38.

Nesopimpla gen. n. near *Itopectis*, *naranyae* sp. n. Japan pl. xiii f. 3, ASHMEAD (180) Washington D.C. U. S. Nation. Mus. Proc. 30.

Nototrachus rufo-orbitalis sp. n. Quetta, CAMERON (276) Bombay J. Nat. Hist. Soc. 17.—*N. novo-guineensis* Neu-Guinea (129), *concolor* Bolivien, *variegatus*, *intermedius*, Brasilien, (130), spp. n., SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. 4.

Odontagrypon gen. n., *carinifrons*, *spinolotus* spp. n., S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. 5 (90-91).

Odontomerus nikkoensis sp. n. Japan, ASHMEAD (181) Washington U. S. Nation. Mus. Proc. 30.

Ophion carinatus (274), *peshinensis*, *quettaensis*, (275), Baluchistan, CAMERON Bombay J. Nat. Hist. Soc. 17, spp. n.—*O. rufoniger*, *O. (Pachyprotoma) capitatus*, Kaukasus, (223), *O. (Henicospilus) stenopsis* Bucharai, *pseudophia* Tenerife,

O. (Cymatoneura) hannibalis Tunis, (225), KOHL. Wien Ann. Nat. Hist. Holmus. **20**, spp. n.—*O. diversus* Paraguay, *hyalinipennis* Venezuela, (131), *concolor* Argentinien, *puleher*, *fuscipennis*, Bolivien, (132), spp. n., SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Ophioneura rufidens, bidentatus, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5** (85-86), spp. n.

†*Orthocentrus primus* Colorado, BRUES (495) New York N.Y. Bull. Amer. Mus. **22**, sp. n.

Osprynchotus ruficeps Cape Colony, CAMERON Cape Town Ann. S. Afric. Mus. **5** (142), sp. n.

Otaecustes? *rufipes* Australia, CAMERON (181) Entomologist 1906, sp. n.

Otlophorus pictus Europe (= *Tryphon aulicus* Grav. ♂), PFANKUCH (95) Zs. Hymenopter. Teschendorf **6**, sp. n.

Oxyjoppa gen. n., *flavobalteata* sp. n. Natal, CAMERON Cape Town Ann. S. Afric. Mus. **5** (169-170).

Paniscus melanogister Cape Colony, CAMERON T.c. (101), sp. n.—*P. kashmirensis, montanus*, Kashmir, CAMERON (29) Bombay J. Nat. Hist. Soc. **17**, spp. n.—*P. incommunis* Australien, *celebensis* N. S. Wales, *noroguineensis* Neu-Guinea, (154), *brasilienensis* Brasilien, *diversus* Venezuela, *opaculus* Bolivien, (155), *fuscipennis, liopleuris, lucidulus*, Bolivien, (156), spp. n., SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. **4**.—*P. cephalotes* Holmgr., parasite of larva of *Cerura vinula* (Danish), NIELSEN Kjöbenhavn Ent. Medd. **3** 1906 (5-16) pl.

Paracollyria gen. n., *flavipennis, fumipennis, pulchripennis, ruficollis*, spp. n., S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5** 1906 (106-108).

Paraphylax albiscapus sp. n. Japan, ASHMEAD (173) Washington U. S. Nation. Mus. Proc. **30**.

Paurolexis gen. n. near *Zaporus*, *flavus* sp. n. Baluchistan, CAMERON (282) Bombay J. Nat. Hist. Soc. **17**.

Periceros nom. n. für *Perissocerus* F. Sm., SCHULZ (99) Spolia hymenopt.

Perithous violaceus Cape Colony, CAMERON Cape Town Ann. S. Afric. Mus. **5** (109), sp. n.

Phaedraspis gen. n. near *Lobocryptus* (196), *rufobalteata* sp. n. Sumatra (197); CAMERON Entomologist 1906.

Phaedrophadnus gen. n., near *Bathycrisis* (285), *striatus* sp. n. Quetta (286), CAMERON Bombay J. Nat. Hist. Soc. **17**.

Phacogenes japonicus sp. n. Japan, ASHMEAD (172) Washington U. S. Nation. Mus. Proc. **30**.—*P. teres* Lans-lebourg, BERTHOUMIEU (60) Echange **22**, sp. n.

Phaisura gen. n., *nigriceps* sp. n. Cape Town, CAMERON Cape Town Ann. S. Afric. Mus. **5** (170-171).

Pharsalia fragilis Wester. ♂ (119), SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Philotymma? *flaviceps* S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5** (131), sp. n.

Pimpla nursei sp. n. Quetta, CAMERON (283) Bombay J. Nat. Hist. Soc. **17**.—*P. pluto* sp. n. Japan, ASHMEAD (178) Washington D.C. U. S. Nation. Mus. Proc. **30**.—*P. natalensis, melanospila, properata, hexensis*, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5** (114-116), spp. n.—*P. parvialba* sp. n. Kansas, VIERECK (182) Philadelphia Pa. Trans. Amer. Ent. Soc. **32**.—*P. laudensis* sp. n. Wyoming, VIERECK T.c. (242).—*P. heliophila* Cam., description of ♀, CAMERON Cape Town Trans. S. Afric. Phil. Soc. **16** (337).

†*Pimpla appendigera* Colorado, BRUES (491) New York N.Y. Bull. Amer. Mus. **22**, sp. n.

Pimplomorpha gen. n., *trilineata* sp. n. Transvaal, CAMERON Cape Town Ann. S. Afric. Mus. **5** (95).

Pimplopterus japonicus sp. n. Japan, ASHMEAD (176) Washington U. S. Nation. Mus. Proc. **30**.

Platylabus rufoornatus, maculisentis, alboornatus, nigripalpis, erythrocephalus, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5** (177-181), spp. n.

Pleuroneurophion pruinus Natal, CAMERON T.c. (82), sp. n.

Pleuroneurophion giganteus sp. n. Malacca (134), SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Podogaster major, *medius*, Brasilien, (121), *minor*, *variegatus*, Peru, (122), **spp. n.**, SZÉPLIGETI T.c.

Polyaenus spiniferus **sp. n.** Borneo; CAMERON Singapore J. Straits R. As. Soc. No. 46 (117).

Pristomerus chinensis **sp. n.** Swatow, ASHMEAD (186) Washington U. S. Nation. Mus. Proc. **30**.—*P. celebensis* Celebes, *novo-guineensis* Neu-Guinea, *pulchripennis*, (150), *surinamensis* (151), Surinam, **spp. n.**, SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Probolus albocinctus Australia, CAMERON (181) Entomologist 1906, **sp. n.**

Proterocryptus **gen. n.** *Hemitelini*, *nawai* **sp. n.** Japan pl. xii f. 3, ASHMEAD (171) Washington U. S. Nation. Mus. Proc. **30**.

Pseudamblyteles peringueyi, *erythrospilus*, *maulicaudis*, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5** (162–164), **spp. n.**

Rhexidermus japonicus **sp. n.** Japan, ASHMEAD (171) Washington U. S. Nation. Mus. Proc. **30**.

Rhimphalea dubia **sp. n.** Japan, ASHMEAD (182) T.c.

Rhynchexetastes **gen. n.**, *violaceipennis* **sp. n.** S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5** (102–103).

Rhynchotrerioria **gen. n.**, *rostrata* **sp. n.** S. Africa, CAMERON T.c. (125).

†*Rhyssa petiolata* Colorado, BRUES (494) New York N.Y. Bull. Amer. Mus. **22**, **sp. n.**

Rierena **gen. n.**, *R. pallidipennis* **sp. n.** S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5** (101–105).

Rossella, **gen. n.**, *violaceipennis* **sp. n.** Transvaal, CAMERON T.c. (176–177).

Rothneyia fortispina Tenasserim, CAMERON (251) Entomologist 1906, **sp. n.**

Saotis flavopunctata Europe, PFANKUCH (218) Zs. Hymenopter. **6**, **sp. n.**

Schizoloma nigricorne **sp. n.** Ostindien (123), SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Seinascopus japonicus (172), *albomaculatus* (173), Japan, ASHMEAD Washington U. S. Nation. Mus. Proc. **30**.

Skeatia annulipes Cape Colony, CAMERON Cape Town Ann. S. Afric. Mus. **5** (153), **sp. n.**

Stenaulax **gen. n.**, *pilosulus*, *niger*, *rufipes* **spp. n.**, S. Africa, CAMERON T.c. (143–145).

Stenichneumon sapporoensis **sp. n.** Japan, ASHMEAD (170) Washington U. S. Nation. Mus. Proc. **30**.

Stenodontus spilocephalus Simla, CAMERON (228) Entomologist 1906.

Stenomeris **gen. n.** for *Cryptus xanthopus* Br., CAMERON (154) Cape Town Ann. S. Afric. Mus. **5**, (151).

Stictophion, **gen. n.**, *nigricans*, *rufipes*, **spp. n.** S. Africa, CAMERON T.c. (85–87).

Sychnoleter japonicus **sp. n.** Japan, ASHMEAD (182) Washington U. S. Nation. Mus. Proc. **30**.

Syrphoctonus atamiensis **sp. n.** Japan, ASHMEAD (183) T.c.

Temelucha japonica **sp. n.** Japan, ASHMEAD (185) T.c.

Theronia japonica **sp. n.** Japan, ASHMEAD (181) T.c.—*T. hippotigris* Ceylon (234), *zebroides* Sumatra (236), *macrodon* Celebes (237), *limbata* (238), *sulcata*, Ron. isld., *maculosa* Australia (239), *hildebrandti* Madagascar, *schmiedeknechti* Java, (319), *steindachneri*, *dubia*, Australia, (320), **spp. n.**; *zebra* var. *n. continentalis* (237), *ataluntae* var. *n. americana* (240), *trivittata* var. *n. bipunctata* (318); KRIEGER Zs. Hymenopter. **6**.

Thersilochus pulchripennis **sp. n.** N. S. Wales (151), SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Thyreodon intermedius Brasilien, *pulchricornis* Peru, (133), *zonatus* Bolivien (134), **spp. n.**, SZÉPLIGETI T.c.—*T. morio* *n. race?* *transitionalis*, VIERECK (225) Philadelphia Trans. Amer. Ent. Soc. **32**.

Tranosema? *striata* (276), *spilostoma* (277), Baluchistan, CAMERON Bombay J. Nat. Hist. Soc. **17**, **spp. n.**

Trichomma? *cariniscutum*, *T. brevipenne*, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5** (88), **spp. n.**

Tryphon cf. *Mesoleptus*.

Xanthepialtes **gen. n.** for *Ephialtes oculatus*, CAMERON Cape Town Ann. S. Afric. Mus. **5** (118).

Xanthopimpla natalensis, *appendiculata*, S. Africa, CAMERON T.c. (110), **spp. n.**—*X. lissonota* (115), *bimaculata* (116), **spp. n.**, Borneo; CAMERON Singapore J. Straits R. As. Soc. No. 46.—*X. nana* **nom. n.** für *parva* Cam., SCHULZ (114) *Spolia hymenopt.*

Xenolytus rufipes Cape Colony, CAMERON Cape Town Ann. S. Afric. Mus. 5 (154), **sp. n.**—*X. rufipes* **sp. n.**, Cape Town, CAMERON Trans. S. Afric. Phil. Soc. 16 (329).

Xiphosoma nigra **sp. n.** Brasilien (119), SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. 4.

Xiphosomella boliviensis, *cremastoides*, Bolivien, (120), **spp. n.**, SZÉPLIGETI T.c.

(*Amblyteles canariensis* BERTHOUMIEU, Paris Bul. soc. ent. 1903, **sp. n.**)

(*Diadromus cabrerai* BERTHOUMIEU, T.c. **sp. n.**)

(*Herpestomus rufithorax* BERTHOUMIEU, T.c. **sp. n.**)

(*Ichneumon flebilis*, *kervillei*, *canariensis*, *nivaliensis*, BERTHOUMIEU, T.c. **spp. n.**)

(*Pheogenes fulvidens* BERTHOUMIEU, T.c. **sp. n.**)

(*Platylabus cabrerai* BERTHOUMIEU T.c. **sp. n.**)

BRACONIDAE.

Acanthobracon nigripes, *mauliceps*, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. 5 (78-79), **spp. n.**

Acanthorhogas **gen. n.** zwischen *Rhogas* und *Doryctes*, *scotus* **sp. n.** Brasilien, SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. 4 (609-610).

Acanthormius **gen. n.** *Hormiini*, *japonicus* **sp. n.** Japan, ASHMEAD (200) Washington U. S. Nation. Mus. Proc. 30.

Aclitus nawaii **sp. n.** Japan, ASHMEAD (188) pl. xv f. 3 T.c.

Adesia, **gen. n.**, *longicornis* **sp. n.** S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. 5 (79-80).

Agathis? *capensis* Cape Town, CAMERON T.c. (37), **sp. n.**—*A. albolineata* **sp. n.** New-Guinea, CAMERON Nova Guinea 5 Livr. 1 (47).—*A. latibalteata* Australia, CAMERON (26) Entomologist

London 39, **sp. n.**—*A. infortunata* **nom. n.** für *nigritarsis* Cam., SCHULZ (137) *Spolia hymenopt.*

Alitha **gen. n.** *Alysiidae*, *longipennis* **sp. n.** Cape Colony, CAMERON Cape Town Ann. S. Afric. Mus. 5 1906 (28-29).

Apanteles marshalli? **sp. n.**, ? = *formosus*, BIGNELL (275) Ent. Mag. London 42.—*A. sesamiae* **sp. n.** Cape Town, CAMERON Trans. S. Afric. Phil. Soc. 16 (335).—*A. deliadis* Queensland from *Delias argenthona*, BINGHAM (125) London Trans. ent. Soc. 1906, **sp. n.**

Aphidius gifuensis (188), *japonicus*, *lachnirorus*, *areolatus*, (189), **spp. n.**, Japan, ASHMEAD Washington U. S. Nation. Mus. Proc. 30.

Ascogaster atamiensis **sp. n.** Japan, ASHMEAD (191) T.c.

Atanycolus bambalio **sp. n.** Fernando Po, SCHULZ (292) *Spolia hymenopt.*—*A. peruvianus* **sp. n.** Peru, SZÉPLIGETI (549), Ann. Hist.-Nat. Mus. Hung. 4.

Atoreuteus austriacus **sp. n.** Wien, (605), SZÉPLIGETI T.c.

Bacuma **gen. n.**, *fumipennis*, *maculiventris*, **spp. n.**, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. 5 (68-69).

Bathyaulax **gen. n.** *Braconinae* (559), *bicolor* (559), *concolor* (560), Deutsch Ost-Afrika **spp. n.**, SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. 4.

Batotheca; cf. *Spinaria leucomelaena*.

Binarea pulchripes, *fuscipennis*, **spp. n.**, Paraguay, SZÉPLIGETI (600) Ann. Hist.-Nat. Mus. Nat. Hung. 4.

Bracon; table of British, MORLEY (106-110) Ent. Mag. London 42.—*B. amorosus* Sokótra, KOHL (123) Hym. Südarab., **sp. n.**—*B. verus* Deutsch Ostafrika, *maroccanus* Marocco, (588), *asiaticus* Ceylon (589), *surinameusis* Surinam and Bolivien, *boliviensis* Bolivien, (591), *rufator* Paraguay, *melanocheirus*, *communis*, Bolivien, *capitalis* Guadeloupe, *mesocentrus*, (592), *mesomurus*, *linurus*, *excisor*, Bolivien, (593), *camptoneurus* Bolivien, *lunatus* Peru, (594), **spp. n.**, SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. 4.—*B. sesamiae* **sp. n.** Cape Town, CAMERON Trans. S. Afric. Phil. Soc. 16 (334).—*B. difficilis* Cape, CAMERON Cape Town

Ann. S. Afric. Mus. **5** (58), **sp. n.**—*B. quettaensis* (105), *iridipennis* (106), **spp. n.**, Quetta, CAMERON Bombay J. Nat. Hist. Soc. **17**.—*B. mosoensis* **sp. n.** New Guinea, CAMERON Nova-Guinea **5** Livr. **1** (43).—*B. turneri* Australia, CAMERON (26) Entomologist London 1906, **sp. n.**—*B. saussurei* **nom. n.** für *pusillus* Sauss (101), *secernendus* **nom. n.** für *congruus* Szépl. (139), *americacentralis* **nom. n.** für *nicaraguaensis* Cam., *ternatensis* **nom. n.** für *spilogaster* Cam., (140), SCHULZ *Spolia hymenopt.*

Braconella **gen. n.** *Braconinae*, *major*, *minor*, Deutsch Ostafrika, (587), **spp. n.** SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Braunsia madagascariensis Madagascar (257), *sumbana* Sumba (258), *sucarandana* Sumatra (260), *sumatrana* (262), *bipunctata* (263), Sumatra, **spp. n.**, ENDERLEIN Stettiner ent. Ztg. **67**.

Campyloncurus basalis **sp. n.** Mozambique, SZÉPLIGETI (560) Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Cardiochiles; key to South African species, CAMERON Cape Town Trans. S. Afric. Phil. Soc. **16** (331).—*C. nigricollis*, *erythronotus*, **spp. n.**, Quetta, CAMERON (102) Bombay J. Nat. Hist. Soc. **17**.—*C. albocalaratus* Sumatra (247), *laevifossa* (248), *javanus* (249), Java, *rufithorax* Guinea (250), *ceylonicus* Ceylon (251), *szepligetii* (= *testaceus* Sz.) (252), **spp. n.**, ENDERLEIN Stettiner ent. Ztg. **67**.

Chelonogastra koebeli (195) pl. xiv f. 3, *pleuralis* (196), **spp. n.**, Japan, ASHMEAD Washington U. S. Nation. Mus. Proc. **30**.

Chelonus areolatus, *fortispinus* **spp. n.**, Quetta, CAMERON (103) Bombay J. Nat. Hist. Soc. **17** (103).—*C. erythropus* (33), *vaalensis*, *curvimaclatus*, (34), S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5**, **spp. n.**

Chremylus japonicus **sp. n.** Japan, ASHMEAD (200) Washington U. S. Nation. Mus. Proc. **30**.

Clinocentrus hungaricus Budapest (607), *seminiger* Bolivien (608), **spp. n.**, SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Colastes Hal.; Übersicht der Arten, SZÉPLIGETI T.c. (606).

Conspinarina **nom. n.** für *Paraspinaria* Cam. *Spolia zeylan.*, SCHULZ (139) *Spolia hymenopt.*

Cremonops borneana **sp. n.** Borneo; CAMERON Singapore J. Straits R. As. Soc. No. 46 (113).

Cystomastax minor **sp. n.** Brasilien, SZÉPLIGETI (609) Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Dapsilotoma **gen. n.** *Microgasterinae* (101), *testaceipes* **sp. n.** Quetta, CAMERON Bombay J. Nat. Hist. Soc. **17**.

Dinotrema signifrons **sp. n.** Kansas, VIERECK Philadelphia Trans. Amer. Ent. Soc. **32**.

Disophrys rufa, *testacea*, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5** (38), **spp. n.**—*D. tinctipennis* **sp. n.** Borneo; CAMERON Singapore J. Straits R. As. Soc. No. 46 (112).

Doryctes; Übersicht der Arten, SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. **4** (603-604).

Ephedrus japonicus **sp. n.** Japan, ASHMEAD (187) Washington U. S. Nation. Mus. Proc. **30**.

Escuga **gen. n.**, *orata* **sp. n.** Cape Colony, CAMERON Cape Town Ann. S. Afric. Mus. **5** (36).

Euagathis fuscipennis (45), *papua* (46), **spp. n.**, New-Guinea, CAMERON Nova Guinea **5** Livr. **1**.

Erothecus elizabethae, *pulchripennis*, *flaviceps*, *flavofasciatus*, *forticornis*, *canaliculatus*, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5** (72-75), **spp. n.**

Folchinia **gen. n.** (113), *halterata* Sardinia, *brevipennis*, Italy, **spp. n.**, (114), KIEFFER Bruxelles Ann. Soc. Sci. **30**, Mém.

Gastrotheca bilobata Cape Colony, CAMERON Cape Town Ann. S. Afric. Mus. **5** (35), **sp. n.**

Glyptapanteles politus, *minor*, *femoratus* (192), *G. (Apanteles) japonicus*, *nawaii*, (193), **spp. n.**, Japan, ASHMEAD Washington U. S. Nation. Mus. Proc. **30**.

Glyptomorpha apicalis **sp. n.** Deutsch-Ost-Afrik., *G. baetica* var. *n. mauritanica*, SZÉPLIGETI (548) Ann. Hist.-Nat. Mus. Hung. **4**.

Goniobracon **gen. n.** *Braconinae* for *perspicax* Szépl. etc., SZÉPLIGETI (581) T.c.

Habrobracon; Synopsis der Arten, SZÉPLIGETI T.c. (594-595).

Hemibracon **gen. n.** *Braconinae*, *peruiensis* etc. SZÉPLIGETI T.c. (558).

Heterogamus fasciatipennis, *thoracicus*, **spp. n.**, Japan, ASHMEAD (198) Washington U. S. Nation. Mus. Proc. 30.

Heterospilus boliviensis **sp. n.** Bolivien (596), SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. 4.

Hewittella **gen. n.** near *Odesia* (287), *flavomaculata* Borneo (288) **sp. n.**, CAMERON Zs. Hymenopter. 6.

Hybodorcytes **gen. n.** for *Doryctes bicolor* Szépl. (604), SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. 4.

Hybogaster **gen. n.** *Braconinae* for *gibberosus* Szépl. ♀, SZÉPLIGETI (581) T.c.

Hybothorax **gen. n.** *Braconinae* (556), SZÉPLIGETI T.c.

Iphiaulax insularis Cyperu (583), *laeviuseulus* Madagascar, *regularis* Süd-Afrika, (585), **spp. n.**, SZÉPLIGETI T.c.—*I. agnata* S. Arabia, KOHL (120) Hym. Südarab., **sp. n.**—*I. xanthocarpus*, *xanthopterus*, (11), *longicoxis*, *haviandii*, (42), *durbanensis* (43), *levissimus* (44), *meridionalis* (45), *mediator*, *eoccineomaculatus*, (46), *varipalpis* (48), *tanyceras* (49), *varitinctus*, *decorus*, (50), *dodsi*, *lativentris*, (51), *calviniae*, *erythrostromus*, (53), *rhodesianus* (54), *trichiosomus*, (55), *xanthostomus*, (56), *robustus* (57), *mimeticus* (58), S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. 5 1906, **spp. n.**—*I. hewittii* (104), *sadongensis* (105), *curvinervis* (106), *imans* (107), *tricornatus* (108), *alboornatus* (109), **spp. n.**, Borneo; CAMERON Singapore J. Straits R. As. Soc. No. 46.—*I. papuanus* **sp. n.** New-Guinea, CAMERON Nova Guinea 5 Livr. 1 (44).—*I. inacceptus* **nom. n.** für *basimacula* Cam., *successor* **nom. n.** für *meqapterus* Cam., SCHULZ (140) Spolia hymenopt.

Ipoobracon novo-caledonicus, *minor*, Neu-Caledonien, (564), *albofasciatus* Bolivien, *dominus* Paraguay, (570), *schrottkyi* Paraguay, *honoratus*, *flavicarpus*, *disparatus*, Bolivien, (571), *praececellens* Bolivien, *lustrator* Para-

guay, (572), *honestus* Surinam, *trinidadensis* Trinidad, *luctuosus* Bolivien, (573), *pudens*, *pseudoripis*, *glyptomorphus*, *nemorivagus*, Paraguay, (574), *poultoni* Brasilien, *mysticus* Paraguay, *surinamensis* Surinam, (575), *plebejus* Surinam, *dispar* Peru, *hemisphaericus* Bolivien, (576), *scitus*, *scitulus*, *nebulosus*, Surinam, (577), *floririnis*, *dives*, *punicatus*, *melanoderes*, Surinam, (578), *inaequalis*, *subpartitus*, *tripartitus*, Surinam, (579), *feronia* Bolivien, *posthumus* Surinam, (580), SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. 4, **spp. n.**

Ischiogonus hakonensis, **sp. n.** Japan, ASHMEAD (199) Washington U. S. Nation. Mus. Proc. 30.

Kallia secunda **sp. n.** Japan, ASHMEAD (187) T.c.

Latana, **gen. n.** for *L. exearata*, **sp. n.** S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. 5 (77-78).

Leptobracon minor **sp. n.** Surinam, SZÉPLIGETI Ann. Hist.-Nat. Mus. Hung. 4 (548).

Libyophilus **gen. n.** *Alysiinae*, *villosus* **sp. n.** Algeria, KIEFFER (115) Bruxelles Ann. Soc. Scient. 30.

Liodoryctes **gen. n.** for *Acanthobracon australiensis* Szépl., SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. 4 (599).

Lyssiphebus japonicus **sp. n.** Japan, ASHMEAD (190) Washington U. S. Nation. Mus. Proc. 30.

Macrocentrus gifuensis **sp. n.** Japan, ASHMEAD (191) T.c.—*M. rufo-testaceus*, *fuscipes*, (104), **spp. n.** Quetta, CAMERON Bombay J. Nat. Hist. Soc. 17.

Macrodyetium flavipes **sp. n.** Japan, ASHMEAD (195) Washington U. S. Nation. Mus. Proc. 30.

Macronura **gen. n.** *Braconinae* for *mirabilis* Szep. etc., SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. 4.

Macrostromion lucidus **sp. n.** Bolivien, SZÉPLIGETI (608) T.c.

Megabracon **gen. n.** *Braconinae* (580), *mirus* Szépl. etc., Id. T.c.

Megagonia **gen. n.** verwandt mit *Iphiaulax* Szépl., *persimilis*, *rufa*, *seminigra*, Deutsch-Ostafrika, **spp. n.**, SZÉPLIGETI (582) T.c.

Megalomum nigriceps **sp. n.** New-Guinea, CAMERON Nova Guinea 5 Livr. 1.

Meganura n. gen. *Braconinae*, for *insignis* Sm. and *major* Szep., SZÉPLIGETI (552) Ann. Hist.-Nat. Mus. Hung. 4.

Megaproctus unifasciatus sp. n. Bolivien, SZÉPLIGETI (601) T.c.

Melanobracon tibialis sp. n. Japan, ASHMEAD (195) Washington U. S. Nation. Mus. Proc. 30.—*M. ulmicola* sp. n. Kansas, VIERECK (176) Philadelphia Trans. Amer. Ent. Soc. 32.

Merinotus gen. n. verwandt mit *Iphiaulax* (553), *atripennis* Deutsch Ostafrika (553), *bicostatus*, *striatus*, Südafrika, *zanzibarius* Zanzibar, (554), *seticaudis* Sumatra (555), spp. n., SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. 4.

Mesobracon niger Afrika (596), *concolor* Mosambique, *similis* Sierra Leone, (597), spp. n., SZÉPLIGETI T.c.

Meteorus japonicus sp. n. Japan, ASHMEAD (190) Washington U. S. Nation. Mus. Proc. 30.—*M. eumcnidis*, larva, BRUCH (225) pl. figs. 8–10 Revist. Mus. La Plata 11.—*M. australis*, TOSQUINET (55) pl. ii f. 6 Résult. Belgica, Zoologie.

Microbracon japellus sp. n. Japan, ASHMEAD (196) Washington U. S. Nation. Mus. Proc. 30.

Microdus? *ambiguus* S. Arabia, KOHL (126) Hym. Südarab., sp. n.

Microgaster basalis (125), *perelegans* (126), Queensland, BINGHAM London Trans. ent. Soc. 1906, spp. n.

†*Microgaster primordialis* Colorado, BRUES (496) New York N.Y. Bull. Amer. Mus. 22, sp. n.

Microgasteridae; hosts and habits of some European, MORLEY Entomologist 1906 (99–105).

Microplitis atamiensis, *sapporoensis*, spp. n., Japan, ASHMEAD (194) Washington U. S. Nation. Mus. Proc. 30.

Minanga gen. n. (30), *serrata* sp. n. Cape Colony (31), CAMERON Cape Town Ann. S. Afric. Mus. 5 1906 (31).

Monarea diversa, *nigricoxa*, (601), *caudata* Peru (602), spp. n., SZÉPLIGETI Ann. Hist. Nat. Mus. Nat. Hung. 4.

Myosoma brulléi sp. n. Bolivien, SZÉPLIGETI (587) T.c.

Neoclinocentrus gen. n. verwandt mit *Clinocentrus*, *variegatus* sp. n. Bolivien, SZÉPLIGETI (608) T.c.

Neorhogas gen. n. verwandt mit *Rhogas* Nees (605), *luteus* sp. n. Ungarn (606), SZÉPLIGETI T.c.

Neotrimorus insularis sp. n. Fernando Po, SCHULZ (293) Spolia hymenopt.—*N. nigrobalteatus* sp. n. Borneo; CAMERON Singapore J. Straits R. As. Soc. No. 46 (111).

Odontogaster gen. n. near *Iphiaulax*, *minor* sp. n. Deutsch-Ost-Afrika, SZÉPLIGETI Ann. Hist.-Nat. Mus. Hung. 4 (551).

Odontoscopus kricchbaumeri Aden, KOHL (121) Hym. Südarab, sp. n.

Opius dacusi Ceylon, CAMERON (280) Spolia zeylan 3, sp. n.

Orgilus nigromaculatus sp. n. Quetta, CAMERON (105) Bombay J. Nat. Hist. Soc. 17.

Pachylomma cremieri, association with *Lasius*; COBELLI (475) Wien Verh. zool.-bot. Ges. 1906.

Perilitus ruficollis S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. 5 (29), sp. n.

Phaenocarpa formosae sp. n. Japan, ASHMEAD (186) Washington U. S. Nation. Mus. Proc. 30.

Phanerotoma flava sp. n. Japan, ASHMEAD (191) T.c.—*P. ocularis* Sokótra (124), *saussurei* Madagascar, *sareptana* Sarepta, (125), KOHL Hym. Südarab., spp. n.

Phanomeris hungaricus sp. n. Budapest, SZÉPLIGETI (595) Ann. Hist.-Nat. Mus. Nat. Hung. 4.

Plastobelyta gen. n. incertae sedis (116), *gallicola* sp. n. Chile (117), KIEFFER Bruxelles Ann. Soc. Scient. 30.

Platybracon conradti sp. n. Fernando Po, SCHULZ (290) Spolia hymenopt.—*P. mimax* S. Celebes, KOHL (122) Hym. Südarab., sp. n.

Protapanteles rufiventris Queensland, BINGHAM (127) London Trans. ent. soc. 1906, sp. n.—*P.?* *nigrescens* sp. n. Quetta, CAMERON (102) Bombay J. Nat. Hist. Soc. 17.

Pseudobracon concolor sp. n. Afrika, SZÉPLIGETI (596) Ann. Hist.-Nat. Mus. Nat. Hung. 4.

Rhadinobracon **gen. n.** verwandt mit *Iphiaulax*, *luteus* Ceylon, (556), *breriscapus* Bolivien (557), *tuberculatus* Surinam, *apicalis* Bolivien, *cylindroscapus* Surinam, (558), **spp. n.**, SZÉPLIGETI T.c.

Rhogas fuscomaculatus (198), *japonicus* (199), **spp. n.**, Japan, ASHMEAD Washington U. S. Nation. Mus. Proc. **30**.—*R. melanocephalus*, *melanocerus*, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5** (71), **spp. n.**—*R. diversus* Croatien, *hungaricus* Budapest, *corsicus* Corsica, (616), *longipes* Deutsch Ostafrika, *politus* Australien, (617), **spp. n.**, SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

†*Rhogas tertiaris* Colorado, BRUES (496) New York N.Y. Bull. Amer. Mus. **22**, **sp. n.**

Rhoptocentrus syrmienensis **sp. n.** Slavonien., SZÉPLIGETI (602) Ann. Hist.-Nat. Mus. Nat. Hung., **4**.

Rhytimorpha nigriceps **sp. n.** Mozambique, SZÉPLIGETI (551) T.c.

Schizotbrachon **gen. n.**, *S. ornatipennis*, S. Africa, **sp. n.**, CAMERON Cape Town Ann. S. Afric. Mus. **5** (70).

Schonlandella testacea, *fulviventris*, S. Africa, CAMERON T.c. (39-40), **spp. n.**

Semirhytus concolor, *niger*, Bolivien, **spp. n.**, SZÉPLIGETI (610) Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Spathius; Übersicht der Arten, SZÉPLIGETI T.c. (598).

Spinaria flacipennis (205), *chotanensis* (206), N. India, **spp. n.**; *S. leucomelana* Westw. to *Batotheca* (205); CAMERON Entomologist 1906.—*S. westwoodi* **sp. n.** Borneo; CAMERON Singapore J. Straits R. As. Soc. No. 46 (109).

Spinariella **gen. n.** *Exothecinae*, for *mutica* Szépl. Celebes, SZÉPLIGETI (595) Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Telerda **gen. n.**, *maculiceps*, *nigriceps*, **spp. n.**, S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5** (75-76).

Trachybracon **gen. n.** *Braconinae*, *granulatus* Szépl. Congo, SZÉPLIGETI (552) Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Trichodoryctes **gen. n.** for *Acanthobracon striolatus* Szépl., SZÉPLIGETI (599) T.c.

Trigastrotheeca **gen. n.** for *triobata*, **sp. n.**, CAMERON Cape Town Ann. S. Afric. Mus. **5** (32).

Vipio avuuculus S. Arabia, KOHL (123) Hym. Südarab., **sp. n.**—*V. nursei* (106), *unicolor* (107), **spp. n.**, Quetta, CAMERON Bombay J. Nat. Hist. Soc. **17**.—*V. nomas* Transcaspian (246), *kirmannensis* (248), *nigrirostris* (219), Persia, *V. (Teraturus) roborovskii* China (Gobi) (250), KOKUYEW St. Petersburg Ann. Mus. Zool. Ac. Sci. **10**, **spp. n.**—*V. trimaculatus* (60), *tinctipennis*, *pallidincruris*, (61), *maculiceps* (62), *nigripalpis*, *natalensis*, (63), *stictonotus*, *fumipennis*, (64), *longicaudis* (65), *spiloecephalus*, *quinquemaculatus*, (66), *secreatus* (67), S. Africa, CAMERON Cape Town Ann. S. Afric. Mus. **5**, **spp. n.**—*V. paraguayensis* **sp. n.** Paraguay, SZÉPLIGETI (157) Ann. Hist.-Nat. Mus. Hung. **4**.

Xenobius albipes **sp. n.** Japan, ASHMEAD (197) Washington U. S. Nation. Mus. Proc. **30**.

Xiphozele **gen. n.** *Zelini* (204), *compressiventris* **sp. n.** Himalaya (205); CAMERON Entomologist 1906.

Zaglyptogastra abbottii **sp. n.** Japan, ASHMEAD (197) pl. xv f. 4 Washington U. S. Nation. Mus. Proc. **30**.

Zombrus similis **sp. n.** Deutsch-Ostafrika (600), SZÉPLIGETI Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

EVANIIDAE.

Aulaeusholtzi **sp. n.** Kleinasien, SCHULZ (130) *Spolia hymenopt.*

Brahygaster liederwaldti (241), *laevis* (244), Brasilien, **spp. n.**, ENDERLEIN Stettiner ent. Ztg. **67**.

Erania nurseana **sp. n.** Quetta, CAMERON (99) Bombay J. Nat. Hist. Soc. **17**.—*E. rimosa* Fernando Po (228), *satanas* (231), *setosa* (233), *simillima*, *rimiceps*, (236), Sumatra, *hirsuta* Malacca, with var. *rufofemorata*, (238), ENDERLEIN Stettiner ent. Ztg. **67**, **spp. n.**; *E. appendigaster* distinctions (228), *orientalis* varr. n. *nigritarsis* and *tibialis* (230), *sumatrensis* var. n. *xanthops* (235), *kriegeriana* var. n. *trochanterica* (241), Id. T.c.—*E. broomi* **sp. n.** Cape Town, CAMERON Trans. S. Afric. Phil. Soc. **16** (331).—*E. peringueyi* (19), *meridionalis* (20), *fulvospinosa* (21), CAMERON Cape Town

Ann. S. Afric. Mus. **5**, spp. n.—*E. de-meyerei* sp. n. New-Guinea, CAMERON Nova Guinea **5** Livr. 1 (42).—*E. taschenbergi* nom. n. für *rufa* Tasch., SCHULZ (134) *Spolia hymenopt.*

Gasteruption leptocephalum, *crassiventre*, *pulchripenne*, *johannis*, *maculiceps*, *spilopus*, CAMERON Cape Town Ann. S. Afric. Mus. **5** (22–27), spp. n.—*G. baluchistanense*, *quettaense*, (100), spp. n., Quetta, CAMERON Bombay J. Nat. Hist. Soc. **17**.—*G. kashmirensis* sp. n. Kashmir, CAMERON (292) T.c.—*G. paraguayense* (56), *petroselini* (57), *subtropicale* (58), *annulitarse*, *parcum*, (59), *brachychaetum* (60), spp. n., Paraguay, SCHROTTKY Zs. Hymenopter. **6**.

Pristaulacus fasciatipennis sp. n. Borneo, CAMERON Singapore J. Straits R. As. Soc. No. 46 (103).—*P. decemdentatus* Brazil (119), *proximus* Barcelona (120), *polychromus* Brazil (122), KIEFFER Bruxelles Ann. Soc. scient. **30**, spp. n.

Pseudofoenus neotropicus Paraguay, SCHROTTKY Zs. Hymenopter. **6** (62), sp. n.

MEGALYRIDAE.

Megalyra revised; *mastersi* (402), *variegata*, *kalgoorliensis*, *punctata*, (404), *viridescens*, *frenchi*, (405), *lyelli*, *hirsuta*, *minuta*, (406), spp. n., Australia, FROGGATT Sydney N.S.W. Proc. Linn. Soc. **31**.

TRIGONALIDAE.

Trigonaloiden des königlichen zoologischen Museums in Berlin, SCHULZ Berlin Mitt. zool. Mus. **3** (203–212).

Bertonia gen. n. (349), *nigra* sp. n. Paraguay (350), SCHROTTKY Zs. Hymenopter **6**.

Lycogaster celebesiensis, SCHULZ Ann. Hist.-Nat. Mus. Nat. Hung. **4** (263–268) mit 3 Fig.

Nanogonalos gen. n. for *Trig. fasciatipennis* Cam., SCHULZ (211, 212) figs. Berlin Mitt. zool. Mus. **3**.

Pseudogonalos gen. n. for *Trig. hahni*, SCHULZ (211) Berlin Mitt. zool. Mus. **3**.—*P. hahni*, SCHULZ (272) Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Poecilogonalos? gen. n., SCHULZ (212) Berlin Mitt. zool. Mus. **3**.

Taenigonalos? gen. n., SCHULZ (212) T.c.

Seminota taschenbergi Brazil sp. n. (= *Trigonalys depressa* End. 1905); SCHULZ (206) T.c.; also SCHULZ Zs. Hymenopter. **6** (390).

Seminota = (*Bertonia*), *S. taschenbergi* = (*B. nigra* Schr.), SCHULZ (393) Zs. Hymenopter. **6**.

Trigonalos melanoleuca, SCHULZ (269) Ann. Hist.-Nat. Mus. Nat. Hung. **4**; full characters ♂ ♀, SCHULZ (207–209) Berlin Mitt. zool. Mus. **3**.

STEPHANIDAE.

The genera of *Stephanidae*, ENDERLEIN (290) Stettiner Ent. Ztg. **67**.

Diastephanus dolrini (291), *carinifrons* (293), Sumatra, *maculifemur* Malacca (294), *parviceps* Sumatra (296), spp. n., ENDERLEIN T.c.

Foenatopus albomaculatus Rhodesia, CAMERON Cape Town Ann. S. Afric. Mus. **5** (16), sp. n.—*F. indicus* varr. n. *sulcaticollis* and *sumbana*, ENDERLEIN (298) Stettiner ent. Ztg. **67**.

Hemistephanus gen. n. typus *H. macrurus* Schlett. (301), *peruanus* Peru (302), *pehlkei* Columbien (304), spp. n., ENDERLEIN Stettiner ent. Ztg. **67**.

Neostephanus camerunus sp. n. Kamerun, ENDERLEIN (299) T.c.

Parastephanellus nom. n. für *Parastephanus pygmaeus* Enderl., ENDERLEIN (301) T.c.

†*Protostephanus* gen. n. *Stephanidae*, (57), *ashmeadi* sp. n. Florissant (58), COCKERELL Cambridge Bull. Mus. Harvard **50**.

Stephanus (*Foenatopus*) *fernandopoenensis* sp. n. Fernando Po (273), SCHULZ *Spolia hymenopt.*—*S. malayanus* sp. n. New-Guinea, CAMERON Nova Guinea **5** Livr. 1 (43).

(*Megischus ruficeps*, and *borneensis* SAUSSURE, Mission Pavie, **3**, spp. n.)

CHALCIDIDAE.

Aëpocerus doliariae (178), *absconditus* (179), Südbrasilien, *sundaicus* Insel Norsa Kembangan bei Java (180), spp. n., MAYR Entomol. Ztg. Wien **25**.

Ageniaspis fuscicollis, sviluppo e parasitismo endofago in *Prays olcellus*, SILVESTRI Roma Rend. Acc. Lincei **15** 1^o (650-657).

Anastatus pipuneuli **sp. n.** Queensland, PERKINS (262) Honolulu Exp. Stat. Bull. **1**.

Anusia xerophila **sp. n.** Texas, BRUES (61) Ent. News **17**.

Aphelopus varicornis **sp. n.**, BRUES (143-152) Milwaukee Bull. Wis. Nat. Hist. Soc. **4**.

Apocrypta longitarsus **sp. n.** Kamerun, MAYR Entomol. Ztg. Wien **25** (163).

Blastophaga puncticeps **sp. n.** Insel Norsa Kembangan bei Java, MAYR T.c. (156).

Bruchophagus funebris, WEBSTER Washington Cir. U. S. Dept. Agric. Bur. Ent. No. **69**.

Camarothorax **gen. n.** (182), *obscurus* Norsa Kembangan bei Java (184) **sp. n.**, MAYR Entomol. Ztg. Wien **25**.

Ceratosolen striatus Java, *emarginatus* Tongking, (153), *arabicus* Gebel Bura, *acutatus* Kamerun, (154), *marchali* Tongking (155), **spp. n.**; *C. fuscipes* ♂ (153); MAYR T.c.

Chalceerinyx **gen. n.** *Encyrtidae* (258), *eximia* **sp. n.** Sydney (259), PERKINS Honolulu Exp. Stat. Bull. **1**.

Chalcis fulvitarsis **sp. n.** Quetta, *Chalcis responsator* Walk., CAMERON (94) Bombay J. Nat. Hist. Soc. **17**.—*C. ornaticipes* **sp. n.** Kashmir, CAMERON (290) T.c.—*C. ashmeadi* **nom. n.** für *tarsalis* Ashm., SCHULZ (150) *Spolia hymenopt.*—*C. obscurata* Walk., habits etc., BANKS (215) Philipp. J. Sci. **1**.

Cheiloneurus gonatopodis, ehlorodryini, Queensland, PERKINS (261) Honolulu Exp. Stat. Bull. No. **1**, **spp. n.**

Chryseida pachymeri **sp. n.** Paraguay, on *Pachymerus*, SCHROTTKY Zs. wiss. Insektenbiol. **2** (101).

Comperiella **gen. n.** *Encyrtidae* (121), *bifasciata* **sp. n.** China (122), HOWARD Ent. News **17** (121-129).

Critogaster characters of ♀; *C. pinata* **sp. n.** Para, MAYR Entomol. Ztg. Wien **25** (172, 173).

Deuterculophus **nom. n.** für *Eulophopteryx* Ashm., SCHULZ (146) *Spolia hymenopt.*

Diaulimus **nom. n.** für *Diaulus* Ashm., SCHULZ (146) T.c.

Dilaelaps **nom. n.** für *Laelaps* Walk. (114), *tapajoana* **nom. n.** für *ferruginea* Ashm. (145), SCHULZ T.c.

Dirrhinus erythroceras Quetta, CAMERON (92) Bombay J. Nat. Hist. Soc. **17**.

Dynatognus **gen. n.** (181), *robustus* Kamerun (182) **sp. n.**; MAYR Entomol. Ztg. Wien **25**.

Echthrobaccha **gen. n.** *Encyrtidae* (253), *injuriiosa* **sp. n.** Queensland (254), PERKINS Honolulu Exp. Stat. Bull. **1**.

Echthrodryinus **gen. n.** *Encyrtidae*, (252), *destructor* **sp. n.** Queensland (253), PERKINS T.c.

Echthrogonatopus **gen. n.** *Encyrtidae*, *exitiosus* Queensland (256), *pachycephalus* Ohio (257), **spp. n.**, PERKINS T.c.

Ectopiognatha **gen. n.** *Encyrtidae* (254), *minor*, *major*, **spp. n.**, (255), PERKINS T.c.

Eiseniella **nom. n.** for *Eisenia* Ashm.; ASHMEAD (31) Washington Proc. Ent. Soc. **8**.

Etroxys xanthopus, marginicollis, Quetta, **spp. n.**, CAMERON Bombay J. Nat. Hist. Soc. **17** (97).

Eukoebela *gigas* Yemen (164), *camerunensis* Kamerun (165), **spp. n.**, MAYR Entomol. Ztg. Wien **25**.

Eulophus guttiventris **sp. n.** Washington, GIRAUDT Ent. News **17** (305-307).

Eupristina aurivillii **sp. n.** Timor, MAYR Entomol. Ztg. Wien **25** (160).

Eusalandalum pici **sp. n.** Paraguay, on *Pachymerus*, SCHROTTKY (101) Zs. wiss. Insektenbiol. **2**.

Eutelus caeonymus **nom. n.** für *apicalis* Westw., SCHULZ (143) *Spolia hymenopt.*

Fulgoridicida **gen. n.** *Encyrtidae*, *diehroma* **sp. n.** Queensland, PERKINS (250) Honolulu Exp. sta. Bull. **1**.

Halticella subelongata S. Arabia, KOHL (117) Hym. Südarab., **sp. n.**

Helegonatopus **gen. n.** *Encyrtidae* (257), *pseudophanes* **sp. n.** Ohio (258), PERKINS Honolulu Exp. Stat. Bull. **1**.

Leucospis quettaensis (91), *nursei* (92), **spp. n.**, Quetta, CAMERON Bombay J. Nat. Hist. Soc. **17**.—*L. bicincta* **sp. n.**

Arizona, *VIERECK* (227) Philadelphia Trans. Amer. Ent. Soc. **32**.—*L. affinis*, habits and life-history, *GRAENICHER* Milwaukee Bull. Wiss. Nat. Hist. Soc. **4** (153–159) with pl.

Litomastix truncatellus, development in *Plusia*, sexed and asexual larvae etc.; *SILVESTRI* Portici Ann. Scuola sup. Agric. **6** (1–51, sep. pag.) 5 plates.

Megacolus pruinus **sp. n.** Quetta, *CAMERON* (93) Bombay J. Nat. Hist. Soc. **17**.

Megalostigmus xanthopus **nom. n.** für *flavipes* Ashm., *SCHULZ* (147) Spolia hymenopt.

Megastigmus spermotrophus, phytophagous habits, *MACDOUGALL* (52–65) 2 plates Edinburgh Trans. R. Scot. arbor. Soc. 1906.

Meniscocephalus **gen. n.** *Encyrtidae*, *eximius* **sp. n.** Queensland, *PERKINS* (249) Honolulu Exp. Stat. Bull. **1**.

Metapelma mirabilis **sp. n.** Cape Colony, *BRUES* (103–112) Milwaukee Bull. Wis. Nat. Hist. Soc. **4**, **sp. n.**

Microterys coeruleus Queensland, *BINGHAM* (127) London Trans. ent. Soc. 1906, **sp. n.**

Neochalcis? forticaudis **sp. n.** Quetta, *CAMERON* (96) Bombay J. Nat. Hist. Soc. **17**.

Neocladia **gen. n.** *Encyrtidae*, *howardi* **sp. n.** Queensland, *PERKINS* (251) Honolulu Exp. Stat. Bull. **1**.

Heterandrium subalatum **sp. n.** Kamerun, *MAYR* Entomol. Ztg. Wien **25** (177).

Oncochalcis quettaensis (94), *rufescens* (95), **spp. n.**, Quetta, *CAMERON* Bombay J. Nat. Hist. Soc. **17**.

Ootetrastichus beatus **sp. n.** Queensland, *PERKINS* (263) Honolulu Exp. Stat. Bull. **1**.

Paraphelinus **gen. n.** *Aphelininae*, *xiphidii* **sp. n.** Hawaii, *PERKINS* (264) T.c.

Parasaphodes **nom. n.** für *Parasaphes* Ashm., *SCHULZ* (146) Spolia hymenopt.

Philotrupes pilosa Java and Tongking (174), *unispinosa* Insel Norsa Kembangan bei Java (175), *longicaudata* Tongking (176), **spp. n.**, *MAYR* Entomol. Ztg. Wien **25**.

(x-9720 j)

Physothorax serratus **sp. n.** Südbrasilien, *MAYR* T.c. (185).

Pleistodontes froggatti **sp. n.** Neusüdwailes, *MAYR* T.c. (157).—*P. imperialis* Frogg. and *Idarnes australis* Frogg. = ♂ and ♀ of *Sycoryctes australis* (Frogg.), *MAYR* (170) T.c.

Polistomorpha nitidiventris Obidos, *DUCKE* (163) Paris Bull. Soc. ent. **1906**, **sp. n.**

Prospalta berlesei Brit. Columbia on *Diaspis*, *HOWARD* (391) Redia **3**, **sp. n.**, also (292) Ent. News **17**.

Pterygogramma **gen. n.** *Trichogrammidae*, *acuminata* **sp. n.** Queensland, *PERKINS* (265) Honolulu Exp. Stat. Bull. **1**.

Rhipipallus affinis Queensland, *BINGHAM* London Trans. ent. soc. 1906, **sp. n.**

Saronotum **gen. n.** *Encyrtidae* (259), *australiae* Queensland, *americanum* Ohio, (260), **spp. n.**, *PERKINS* Honolulu Exp. Stat. Bull. **1**.

Schizaspidia doddi Queensland from *Camponotus*, *BINGHAM* (130) London Trans. ent. Soc., **sp. n.**

Secundeisenia **nom. n.** für *Eisenia* Ashm., *SCHULZ* (146) Spolia hymenopt.

Stomatoceras fasciatipennis Queensland, *BINGHAM* (128) London Trans. ent. soc. 1906, **sp. n.**

Sycophaga spinatarsus Java, *vicina* Kamerun, (163), **spp. n.**, *MAYR* Entomol. Ztg. Wien **25**.

Sycophila globiceps (184), *brasilensis* (185), Südbrasilien, **spp. n.**, *MAYR* T.c.

Sycoryctes tibialis, *excellens*, Timor, (166), *sjöstedti* Kamerun (167), *subtilis* Insel Norsa Kembangan bei Java (169), **spp. n.**, *MAYR* T.c.

Syntomaspis pubescens, Lebensweise; *MOKRZECKI* Zs. wiss. Insektenbiol. **2** 1906 (390–392).

Tomocera ceroplastis China, *PERKINS* (76) Honolulu Proc. Hawai. ent. Soc. **1**, **sp. n.**

Torymus nigricornis, *Oenocytes*, *WEISSENBERG* Zool. Jahrb. Abt. f. Anat. **23** (231–268) 1 Taf.

Trichogramma pretiosa var. n. *nigra* (82), heredity (81), GIRAULT Canad. Entomol. **38**; Oviposition, GIRAULT Psyche **13** (137-148).

(*Ooecocyba viridilineata* N. S. Wales, FROGGATT, Agric. Gaz. Sydney, N.S.W., **16**, (233 fig.) sp. n.)

(*Megastigmus brachychiton* N. S. Wales, FROGGATT, T.c. (233) fig. sp. n.)

PROCTOTRYPIDAE (incl. Mymaridae and Bethyidae).

Proctotrypid hosts and parasites; PERKINS Honolulu exp. Stat. Bull. **1** (xxi-xxiv).

Recherches sur la biologie et le développement des Hyménoptères parasites. Les Platygasters. MARCHAL, Arch. zool. Paris **4** 1906 (485-640) pl. x.

Aclista nevadensis sp. n. N. America, KIEFFER (277) Berliner ent. Zs. **50**.

Allepyris microneurus, *nigricrus*, France, (417), *ruficrus* Italy (418), KIEFFER Hym. Eur. Alg. **9**, spp. n.

Anagrus atomos natural history, PIERRE (117-119) Rev. Sci. Bourbon 1906.

Anisepyrus gen. n. *Bethylides* (137), *aeneus* (138), *fasciipennis*, Nicaragua, *punctaticeps* Nevada, (27), *sublevis* Nicaragua (28), spp. n., KIEFFER Bruxelles Ann. Soc. scient. **30**.—*Anisepyrus* gen. n., *aeneus* Kieff., etc.; KIEFFER (240) Berliner ent. Zs. **50**.

Anisobrachium incertum Italy, KIEFFER (295) Hym. Eur. Alg. **9**, sp. n.

Anteon unicarinatus (512), *tricarinatus*, *fuscollis*, (513), *claricollis* (514), *longitarsis* (516), *brevifilis*, *curvatus*, (517), *longifilis* (518), *halidayi* (520), Britain, KIEFFER Hym. Eur. Alg. **9**, spp. n.—*A. bakeri* (239), *rugosiceps* (238), N. America, spp. n., KIEFFER Berliner ent. Zs. **50**.

Apheopus leucopus Nicaragua sp. n., KIEFFER T.c. (239).

Arsepyris biforeatus (339), *merceti*, Spain, *pedestris* Corfu, (340), KIEFFER Hym Eur. Alg. **9**, spp. n.

Atritonus californicus San Mateo, sp. n., KIEFFER (256) Berliner ent. Zs. **50**.

Bakeria complanata sp. n., Nicaragua KIEFFER T.c. (50).

Belyta nigripes Claremont, *rufipes* Nicaragua, spp. n., KIEFFER (280) T.c.

Bethylus prolongatus Prov., KIEFFER (255) T.c.

Bocchus flavipes Nevada sp. n., KIEFFER (237) T.c.

Bradepyrus apterus Tunis (374), *inermis* Casablanca (375), KIEFFER Hym. Eur. Alg. **9**, spp. n.

Caloteia bidentata (16), *subdentata* (17), Nouvelle Guinée, KIEFFER Genova Ann. Mus. **42**, spp. n.

†*Calyzoa ramosa* Zanzibar copal, MEUNIER (59) Rev. Sci. Bourbon 1906, sp. n.

Cephalonomia giraudi (454), *mycetophila* (455), France, *brevipennis* England (458), *rufa* France (460), *nigrescens* Pyrenees (461); KIEFFER Hym. Eur. Alg. **9**, spp. n.

Ceraphron glabricornis, *nevadensis*, Nevada, spp. n., KIEFFER (260) Berliner ent. Zs. **50**.—*C. brevicornis*, *quissetensis*, N. America, BRUES (143-152) Milwaukee Bul. Wis. Nat. Hist. Soc. **4**, spp. n.

Chlorodryinus pseudophanes sp. n. Brisbane, PERKINS (492) Honolulu Exp. Stat. Bull. **1**.

Cinetus radiatus Nouvelle Guinée, KIEFFER (23) Genova Ann. Mus. **42**, sp. n.

Clinopria gen. n. *Diapriinae*, *fusca* sp. n. Sumatra, KIEFFER (30) T.c.

Diapria modiglianii Sumatra, KIEFFER (31) T.c., sp. n.—*D. biforeata*, *clarimontis*, (287), *crassiclara*, *melanocera*, *montana*, *nevadensis*, (288), spp. n., N. America, KIEFFER Berliner ent. Zs. **50**.

Diapriines: tableau des genres, KIEFFER (33-39) Genova Ann. Mus. **42**.

Disognus diversicornis (271), *glabratus* (273), *pubescens* (272), spp. n., N. America, KIEFFER Berliner ent. Zs. **50**.

Dissomphalus biforeatus Nicaragua sp. n., KIEFFER (250) T.c.

Dryinus auctt.; confusion, PERKINS (491) Honolulu exp. Stat. Bull. **1**.—*D. cariniceps* sp. n. Cape Colony, CAMERON

Zs. Hymenopter. (158).—*D. trifasciatus* India, KIEFFER (335) Zs. Hymenopter. **6**, **sp. n.**—*D. acuticollis* Nicaragua, KIEFFER (9) Genova Ann. Mus. **42**, **sp. n.**

Epigonatopus fallax **sp. n.** New South Wales, PERKINS (490) Honolulu Exp. Stat. Bull. **1**.

Epyris fuscipalpis Roumania (315), *tibialis* Algeria (316), *crassicornis*, *transversus*, Hungary, (317), *quinquecarinatus* Algeria (320), *insulanus* Balearic islands (321), *arcuatus* (322), *marshalli* (323), Arles, *erythrocerus* Sarepta (325), *evanescens* Servia (327), *macromma* Hungary (328), *inermis* Greece (329), *longicollis* Spain (330), *gaullei* (331), *multidentatus* (333), France, *bipartitus* Corfu (334), *brevipennis* France, *tardus* Russia, (336); KIEFFER Hym. Eur. Alg. **9**, **spp. n.**—*E. rugicollis* **sp. n.** Quetta, CAMERON (288) Bombay J. Nat. Hist. Soc. **17**.—*E. albipalpis* Nicaragua (241), *clarimontis* Claremont (243), *dodecatomus* Nicaragua (242), *criogoni* Claremont (245), *indivisus* Claremont (243), *longicollis* California (244), *nudicornis* Nevada (245), **spp. n.**, KIEFFER Berliner ent. Zs. **50**.—*E. secundus* **nom. n.**, BRUES (143-152) Milwaukee Bull. Wis. Nat. Hist. Soc. **4**.

Erallonyx crenaticornis (274), *dentaticornis* (275), *fallacicornis* (274), N. America, **spp. n.**, KIEFFER Berliner ent. Zs. **50**.

Galsus leviceps Sumatra, KIEFFER (32) Genova Ann. Mus. **42**, **sp. n.**—*G. autumnalis* **sp. n.** N. America, BRUES (143-152) Milwaukee Bull. Wis. Nat. Hist. Soc. **4**.—*G. clarimontis*, *microtomus* **spp. n.**, N. America, KIEFFER Berliner ent. Zs. **50**.

Glenosema nigra France, KIEFFER (432) Hym. Eur. Alg. **9**, **sp. n.**

Gonatopus bifarius Corsica (502), *horvathi* Hungary (503), *dichromus* Corsica (505), *ortholabis* Ucciani (506), *gracilipes* Hungary (508), *distinctus* England (509); KIEFFER Hym. Eur. Alg. **9**, **spp. n.**—*G. maurus* India, KIEFFER (336) Zs. Hymenopter. **6**, **sp. n.**—*G. koebelei* **sp. n.** Paramatta, PERKINS (489) Honolulu Exp. Stat. Bull. **1**.—*G. cyphonotus* Brit. Columbia, BRADLEY (380) Canad. Entomol. **38**, **sp. n.**—*G. pilosipes*, *capensis*, *rariipes*, *similis*, Cape Colony, BRUES Milwaukee Bull.

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Wis. Nat. Hist. Soc. **4** (103-112), **spp. n.**

Goniozus clarimontis Claremont (253), *macrophthalmia* Mexico, *occipitalis* Nevada, (254), **spp. n.**, KIEFFER Berliner ent. Zs. **50**.—*G. carinatus* Nicaragua, KIEFFER (10), with var. *castaneus* (11), Genova Ann. Mus. **42**, **sp. n.**

Gynochelys **gen. n.**, *braunsi* **sp. n.** Cape Colony, BRUES (103-112) Milwaukee Bull. Wis. Nat. Hist. Soc. **4**.

Habropelte leviceps Nevada, *nigerimus* California, **spp. n.**, KIEFFER (257) Berliner ent. Zs. **50**.

Habroteleia **gen. n.** *Scelioninae* (14), *flavipes* **sp. n.** Sumatra (15), KIEFFER Genova Ann. Mus. **42**.

Haplogonatopus vitiensis Fiji (488), *brevicornis* Queensland (489), PERKINS Honolulu Exp. Stat. Bull. **1**, **spp. n.**

Helorus striolatus **sp. n.** Quetta, CAMERON (98) Bombay J. Nat. Hist. Soc. **17**.

Heteropria **gen. n.** *Diapriinae* (23), *compressipes* **sp. n.** Uruguay (24), KIEFFER Genova Ann. Mus. **42**.

Hexapria **gen. n.** *Diapriinae*, *fusco-clavata* **sp. n.** Nicaragua, KIEFFER (27) T.c.

Holepyris numidicus, *ruficornis*, Algeria, (342), *pedestris* Italy (343), *cursor* Algeria (344), *ruficollis* Egypt (345), *erythroderes* Corsica (346), *crenulatus* Italy (348), *lineatus* (350), *punctaticollis* (351), Spain, *breviscutellatus* France, *tibialis* Spain, (352), *ruftarsis* Sardinia (353), *levicollis* Tunis (356), *fasciipennis* Corfu (357), *orientalis* Greece (358), *angusticollis* Oran (359), *fuscipennis* Tunis (360), *nigerrimus* Spain (362), *maculipennis* Corsica, *inermis* Italy, (364), *tricarinatus* Spain (365), *opacus* Tangier (366), *numidianus* Algeria, *neglectus* Hungary, (368); KIEFFER Hym. Eur. Alg. **9**, **spp. n.**—*H. bakeri* (247), *flavicornis* (248), **spp. n.**, Nicaragua, KIEFFER Berliner ent. Zs. **50**.

Homoglenus punctatus Oran, KIEFFER (372) Hym. Eur. Alg. **9**, **sp. n.**

Homopterophagus dorsettensis Dale, KIRKALDY (14) Entomologist London **29**.

Hoplogryon crassicornis (262), *tennicornis* (263), **spp. n.**, N. America KIEFFER, Berliner ent. Zs. **50**.

Hoplopria lericeps **sp. n.** Nicaragua, KIEFFER (284) T.c.

Hoploteleia erythrothorax Nicaragua, KIEFFER (19) Genova Ann. Mus. **42**, **sp. n.**—*H. erythrothorax* (267), *mandibularis* (266), *rugosiceps*, *similis* (267), **spp. n.**, Nicaragua, KIEFFER Berliner ent. Zs. **50**.

Inostemma piricola, England, France, Germany, KIEFFER (123) Bruxelles Ann. Soc. scient. **30**, **sp. n.**

Ismarus nevadensis **sp. n.** N. America, KIEFFER (276) Berliner ent. Zs. **50**.

Labeo albitarsis Nevada **sp. n.**, KIEFFER (239) T.c.—*L. typhlocybae* Ashm., PERKINS (492) Honolulu Exp. Stat. Bull. **1**.

Laelius bipartitus (419), *tibialis* (420), France, *fulvipes* Italy, *perrisi* France, (421), KIEFFER Hym. Eur. Alg. **9**, **spp. n.**

Lagynodes = (*Hadrocera* Först. = *Triognus* Marsh.) (148), *nitidiceps* (154), *crassicornis*, *occipitalis*, *thoracicus*, (155), Italy, *niger* Bitche (156), KIEFFER Bruxelles Ann. Soc. scient. **30**, **spp. n.**

Leptorhaptus brevinervis Nicaragua (282), *longinervis* Claremont (280), **spp. n.**, KIEFFER Berliner ent. Zs. **50**.

Loxotropa villosicornis **sp. n.**, Nevada, KIEFFER (286) T.c.

Macroteleia kiefferi **nom. n.**, BRUES (143-152) Milwaukee Bul. Wis. Nat. Hist. Soc. **4**.—*M. pubescens* Nicaragua (17), *nigriceps* Paraguay (18), KIEFFER Genova Ann. Mus. **42**, **spp. n.**—*M. rufipes* **sp. n.** Nicaragua, KIEFFER (264) Berliner ent. Zs. **50**.

Megaspilus bacilliger (258), *inermis*, *integriceps*, *nevadensis*, (259), *nigripes* (258), **spp. n.**, N. America, KIEFFER T.c.

Mereetia **gen. n.** type *Dryinus longicollis*, KIEFFER (495) Hym. Eur. Alg. **9**.

Mesitius integer Greece (388), *horvathi* Hungary (389), *ruficollis* Pyrenees (390), *micropterus* Asia Minor (391), *cursor* Escorial (392), *levicollis* Sicily (393), *pyrenaeus* France, *nigriceps* Sicily, (394), *cursor* Spain (395), *micromma* Morocco (396), *erythrothorax* Marsh. Sardinia (398), *hemipterus* Corfu, *minus* Cyprus, (400), *africanus* Casablanca (401), *cameroni* Gibraltar (402), *nitidus*

Tunis (405), *pavulus* Sicily (407), *fusicornis* (408), *hungaricus* (409), Hungary, *punctatus* Algeria (410); KIEFFER T.c., **spp. n.**

Mesodryinus **gen. n.** type *Dryinus niger*, KIEFFER (497) T.c.

Miota flavicornis **sp. n.** N. America, KIEFFER (281) Berliner ent. Zs. **50**.

Mystrocnemis capensis **sp. n.** Cape Colony, BRUES (103-112) Milwaukee Bull. Wis. Nat. Hist. Soc. **4**.

Neochelognus ignotus **sp. n.** Sydney, PERKINS (493) Honolulu Exp. Stat. Bull. **1**.

Neogonatopus vitiensis **sp. n.** Suva, PERKINS (490) T.c.

Odontopria **gen. n.** *Diapriinae* (24), *temporalis* Sumatra (25), *cornuta* Iles Mentawai (26), KIEFFER Genova Ann. Mus. **42**.

Odontoseelio **gen. n.** *Scelioninae* (13), *striatifrons* **sp. n.** Afrique occ. (14), KIEFFER T.c.

Oxylabis californica **sp. n.** San Mateo, KIEFFER (279) Berliner ent. Zs. **50**.

†*Pantoelis deperdita* Colorado, BRUES (497) New York N.Y. Bull. Amer. Mus. **22**, **sp. n.**

Pantoelis dubiosa N. America, *rufipes* Nicaragua, **spp. n.**, KIEFFER (278) Berliner ent. Zs. **50**.—*P. nicaraguana* **nom. n.** BRUES (143-152) Milwaukee Bull. Wis. Nat. Hist. Soc. **4**.

Paramesius pleuralis Sumatra, KIEFFER (28) Genova Ann. Mus. **42**, **sp. n.**

Parascleroderma rugosulum Gibraltar, *fulviceps* Sicily, *nigriceps* Italy, KIEFFER (427) Hym. Eur. Alg. **9**, **spp. n.**—*P. lericeps* Nicaragua **sp. n.**, KIEFFER (255) Berliner ent. Zs. **50** and Genova Ann. Mus. **42** (11).

Pentacantha rufitarsis **sp. n.** California, KIEFFER (263) T.c.

Pentapria punctaticeps **sp. n.** Nicaragua, KIEFFER (289) T.c.

Plastodryinus **gen. n.** type *Dryinus szepligetii*, KIEFFER (496) Hym. Eur. Alg. **9**.

Plastomierops **gen. n.** *Ceraphronides*, *acuticornis* **sp. n.** Italy, KIEFFER (145) Bruxelles Ann. Soc. Scient. **30**.

Platyceraphron **gen. n.** *Ceraphronides*, *muscidarum* (141), *corticis* (142), **spp. n.**, France on *Lonchaca*, KIEFFER T.c.

Platygaster lineatus (125), *ornatus* (127), *marchali* (129), *persicariae* (130), *longicaudatus* (on *Mayetiola destructor*) (131), *brevicaudatus* (133), France, KIEFFER T.c., **spp. n.**

Platyscelio **gen. n.** *Scelioninae* (11), *pulchricornis* **sp. n.** Nouvelle Guinée (13), KIEFFER Genova Ann. Mus. 42.

Pristocera damascena Syria, KIEFFER (293) Hym. Eur. Alg. 9, **sp. n.**—*P. heinii* S. Arabia (115), *syriaca* Syria (116), KOHL Hym. Südarab., **spp. n.**—*P. hyalina* **sp. n.** N. America, BRUES (143–152) Milwaukee Bull. Wis. Nat. Hist. Soc. 4.

Pristomicrops **gen. n.** *Ceraphronides*, *claratus* **sp. n.** Italy, KIEFFER (146) Bruxelles Ann. Soc. scient. 30.

Proctotrypes nevadensis **sp. n.** N. America, KIEFFER (275) Berliner ent. Zs. 50.

Prodryinus **gen. n.** type *Dryinus brachycerus*, KIEFFER (497) Hym. Eur. Alg. 9.

Prosacantha flabellata France, KIEFFER (162) Bruxelles Ann. Soc. scient. 30, **sp. n.**

Prosanteon melanostigmus **sp. n.** New South Wales, PERKINS (493) Honolulu Exp. Stat. Bull. 1.

Proscleroderma punctatum Syria, KIEFFER (430) Hym. Eur. Alg. 9, **sp. n.**

Pseudisobrachium cantianum England, CHITTY (148) Ent. Mag. London 42, **sp. n.**—*P. carpentieri* France (301), *pubescens* Greece, *concolor* Hungary, (305), KIEFFER Hym. Eur. Alg. 9, **spp. n.**—*P. testaceipes* Nicaragua **sp. n.**, KIEFFER (240) Berliner ent. Zs. 50.

Pseudogonatopus melanacrias, *kiefferi* Fiji, PERKINS (487) Honolulu Exp. Stat. Bull. 1, **spp. n.**

Psilobethylus **gen. n.** (461), *luteus* **sp. n.** Italy (463), KIEFFER Hym. Eur. Alg. 9.

Psilopria **gen. n.** *Diapriinae*, *rufitarsis* **sp. n.** Nouvelle Guinée, KIEFFER (29) Genova Ann. Mus. 42.

Rhabdopyris fasciatus Scotland (377), *reitteri* Bosnia (378), *fuscipes* Italy (379), *hemipterus* France (380), *proximus* (381), *fascipennis*, Spain, *pallidipennis*

Hungary, (382), KIEFFER Hym. Eur. Alg. 9, **spp. n.**—*R. quinquelineatus* (249), *septemlineatus* (250), *subacneus* (248), **spp. n.**, Nicaragua, KIEFFER Berliner ent. Zs. 50.

Scelio pulchripennis, *nitens*, Cape Colony, BRUES (103–112) Milwaukee Bull. Wis. Nat. Hist. Soc. 4, **spp. n.**—*S. flavicoxis* Sumatra (21), *fuscicoxis* Nicaragua (22), KIEFFER Genova Ann. Mus. 42, **spp. n.**—*S. albipennis* Nevada (270), *guatemalensis* Champerico, *rufonotatus* Cuba, (269), *tripartitus* Nicaragua, (270), **spp. n.**, KIEFFER Berliner ent. Zs. 50.—*S. monticola* Kansas (184), *striaticollis* Texas (222), *renata* Arizona (228), BRUES in Viereck Philadelphia Trans. Amer. Ent. Soc. 32.

Scleroderma brevicorne Sicily, KIEFFER (447) Hym. Eur. Alg. 9, **sp. n.**

Sparasion emarginatum Italy (168), *trilaminatum* Spain, *rugosulum* Hungary, (169), *aeneum* Illyria, *spinosipes* Spain, (170), *subleve* (171), *punctatissimum*, Illyria, *nigripes* Italy, (172), *bicoronatum* Sardinia (173), *flavipes* Italy (174), *obtusifrons* Carniola (175), *dorsale* (176), *punctulatum* (177), Hungary, *vicinum* Italy (178), KIEFFER Bruxelles Ann. Soc. scient. 30, **spp. n.**—*S. albo-pilosellus* **sp. n.** Quetta, CAMERON (98) Bombay J. Nat. Hist. Soc., 17.—*S. coeruleum* Sumatra, KIEFFER (20) Genova Ann. Mus. 42, **sp. n.**—*S. graenicheri* **sp. n.** N. America, BRUES (143–152) Milwaukee Bull. Wis. Nat. Hist. Soc. 4.

Synopeas rhanis Walk., KIEFFER (134) Bruxelles Ann. Soc. scient. 30

Teleas striatus France, KIEFFER (161) T.c., **sp. n.**

Telenomus giraudi Europe (163), *perrisi* France (164), KIEFFER T.c., **spp. n.**—*T. quaintancei* (63), *perplexus* (65), **spp. n.**, N. America, GIRAULT Psyche 13.—*T. heracleicola* **sp. n.** N. America, BRUES (143–152) Milwaukee Bull. Wis. Nat. Hist. Soc. 4.—*T. bakeri*, *pentatomus*, *tetratomus*, N. America, **spp. n.**, KIEFFER (261) Berliner ent. Zs. 50.—*T. solarii* Nicaragua, KIEFFER (22) Genova Ann. Mus. 42, **sp. n.**

Trachepyrus spinosipes (413), *biscrensis* (414), Algeria, KIEFFER Hym. Eur. Alg. 9, **spp. n.**

Trichacis remulus Walk., KIEFFER (135) Bruxelles Ann. Soc. scient. 30.

Triglenus gen. n., *numidus* sp. n. Algeria, MARSHALL (372) Hym. Eur. Alg. 9.

Trimierops gen. n. *Ceraphronides*, *clariger* sp. n. Italy, KIEFFER (142) Bruxelles Ann. Soc. Scient. 30.

Trissoleus rufitarsis Nevada sp. n., KIEFFER (262) Berliner ent. Zs. 50.

Trissomalus transvaalensis Dub. re-described, CAMERON Trans. S. Afric. Phil. Soc. 16 (332).

Triteleia gen. n. near *Macroteleia*, (264), *punctaticeps* sp. n. Nicaragua (265), KIEFFER Berliner ent. Zs. 50.

Tropidopria unifoveata sp. n. ? N. America, KIEFFER (286) T.c.—*T. rufa* Nicaragua, KIEFFER (31) Genova Ann. Mus. 42, sp. n.

Tropidopsis lorlai Nouvelle Guinée, KIEFFER (32) T.c., sp. n.

Zelotypa filicornis sp. n. California, KIEFFER (279) Berliner ent. Zs. 50.

(*Anagrus hydrophilus* Russian Turkestan. ASHMEAD, Ent. News. 16 1905 (213–214), sp. n.)

(*Polynema bergi* Russian Turkestan. ASHMEAD, Ent. News 16 1905 (213–214), sp. n.)

(†Meunier, Fernand. Sur deux *Myrmaridae* de l'ambre de la Baltique. Misc. ent., 13, 1905, (1–4, av. fig.)

CYNIPIDAE.

Monograph of the gall-producing *Cynipidae* in Denmark, with a description of their galls (Danish); JØRGENSEN Kjöbenhavn Ent. Medd. 3 (85–112), pl.

The pedunculated eggs; BUGNION, 2 and 3.

Aulax hieracii = (*graminis* Cam.), MAYR (74) Marcellia 5.—*A. hypochoeridis* Kieff. = (*Phanacis seriola* De Stef. Perez), DESTEFANI PEREZ (130) Marcellia 5.

Balina brasiliensis Sao Paulo, KIEFFER (107) Marcellia 5, sp. n.

Biorrhiza australiensis N. S. Wales, KIEFFER (104) T.c., sp. n.

Cothonaspis konowi sp. n. KIEFFER, Zs. Hymenopter. 6 (114).

Cynips trinacriae Sicily, DE STEFANI PEREZ Marcellia 5 (127), sp. n.

Dryophanta australiensis N. S. Wales, KIEFFER (105) Marcellia 5, sp. n.—*D. nawai* Ashm., metamorphosis, (Japanese); NAWA Konch. Sek. Gifu 10 1906 (8–10).

Eucoela indica Java, KIEFFER (108) Marcellia 5, sp. n.

Ganaspis indicus, *longicornis*, Java, KIEFFER (109) T.c., sp. n.

Kleditoma indica Java, KIEFFER (110) T.c., sp. n.

Onychia rufithorax sp. n. Quetta, CAMERON (90) Bombay J. Nat. Hist. Soc. 17.

Parandrieus gen. n. (102), *mairei* sp. n. China (103), KIEFFER Marcellia 5.

Rhodites rubicola hab.?, KIEFFER (106) T.c., sp. n.

Timaspis lusitanicus Lousa, TAVARES (301) Broteria 3, sp. n.

(*Timaspis papaveris*, GOURY & GUIGNON, Feuille jeunes natural. 35, sp. n.)

PSEUDOSIRICIDAE.

†*Pseudosiricidae* fam. n. for *Pseudosirex* Weyenb., HANDLIRSCH (573) Fossil. Ins.

†*Pseudosirex deichmulleri* (575), *separatus* (576), *nanus* (577), Kalk Bayern, HANDLIRSCH T.c., spp. n.

ORYSSIDAE.

Oryssus trifasciatus sp. n. New-Guinea, CAMERON Nova Guinea Leide 5 Livr. 1 (41).

†*Lithoryssus* gen. n. (492), *parrus* sp. n. Florissant (493), BRUES New York N.Y. Bull. Amer. Mus. 22.

CEPHIDAE.

Pachycephus aeneovarius, *konowii*, Asia minor, KOHL (221) Wien Ann. Nat. Hist. Hofmus. 20, spp. n.

Peronistilus gen. n. for part of *Cephus*, GHIGI (26) Annuario Mus. Napoli 1 No. 21.—*P. politissimus* pl. viii No. 34, Id. T.c.

TENTHREDINIDAE, XYLIDAE.

A study of the wings of the Tenthredinoidea, MACGILLIVRAY Washington D.C. Smithsonian Inst. U. S. Nation

Mus. Proc. **29** 1906 (569-654) with text fig., pl.

The mouth-parts of *Tenthredinidae*; VAN DINE (19-22) pl. i Honolulu Proc. Hawai. ent. Soc. **1**.

Revision of *Chalastogastra* continued, *Cimber* to *Abia*, KONOW Zs. Hymenopter. **6** (193-208 etc.) also with separate pagination.

Notes on *Tenthredinidae*, described by Costa, GUIGI Annuario Mus. Napoli **1** No. 34.

Synonymical and critical notes on Italian *Tenthredinidae*, GUIGI Annuario Mus. Napoli **1** No. 21 (1-26).

Biologie der Blattwespen (*Chalastogastra*), JÖRGENSEN, Zs. wiss. Insektenbiol. Husum **2** 1906 (347-351).

KONOW, Fr[iedr.] W[ilh.]. Berichtung [zu Wytsman Gen. Ins. Tenthred.] Zs. Hymenopter. Teschendorf **6** 1906 (388).

Parthenogenesis (Holländisch); ROSSUM, 's Gravenhage Tijdschr. Ent. **49** (lxi-lxix).

Acordulceeros cestatus, *thoracalis*, (337), *illotus*, *spathulatus*, (338), *calceolatus* (339), *lituratus*, *stigmaticus*, (340), *regalis*, *rudis*, (341), *russatus*, *bigrammatus*, (342), Brazil, *ricatus* Peru, *inglorius* Bolivia, (343), *cervicatus*, *tegularis*, (344), *pallidus*, Brazil, *schrottkyi* Paraguay, (345), KONOW Zs. Hymenopter. **6**, spp. n.

Allantus asperatus sp. n. Sikkim, KONOW (125) T.c.

Amasis citrina = (*moricei* Kon.) KONOW (321) T.c.

Amauronematus; table of British MORICE (134-136) Ent. Mag. London **42**.

Arge siluncula Tonkin, *aecliviceps* China mer., KONOW (255) Zs. Hymenopter. **6**, spp. n.—*A. inops*, Texas, KONOW (181) T.c., sp. n.—*A. pyrenaica* = (*modesta* Kon.) KONOW (328) T.c.

Athlophorus orbitalis Sumatra, KONOW (330) T.c., sp. n.

Bathylepta gen. n. *Argidum*, *procer* sp. n. Khasia hills, KONOW (123) T.c.

Blennocampa roberti-buyssoni nom. n. für *brevicornis* Buyss., SCHULZ (80) Spolia hym.—*B. brevicornis* Buyss. to *Somostethus*, KONOW (321) Zs. Hymenopter. **6**.

Brachyphatnus gen. n. (250) *Schizocerides*, *nigriceps* Texas, *debilicornis*, (251), *jenseni* (252), Argentina, spp. n., KONOW T.c.

Braunsiola duckei Brazil, KONOW (181) T.c., sp. n.

Cladius tibialatus Tangier, KONOW (256) Zs. Hymenopter. **6**, sp. n.

Croesus and *Holcocneme*; British species, MORICE (79) Ent. Mag. London **42**.—*C. varus* and *latipes*, influence of food, VAN ROSSUM (141-147) Ent. Ber. Nederland. **2**.

Cryptocampus angustus larval habits, NIELSEN Zs. wiss. Insektenbiol. **2** (44-47).

Decameria altilis Surinam (371), *florida*, *leucophaea*, Peru, (372), *sandaracata* Brazil (373), KONOW Zs. Hymenopter. **6**, spp. n.

†*Dineura saxorum* sp. n. Florissant, COCKERELL (498) New York N.Y. Bull. Amer. Mus. Nat. Hist. **22**.

Dolerus cookei California, CLARKE (351) Canad. Entomol. **38**, sp. n.

Dosytheus kashmirensis sp. n. Kashmir, CAMERON (290) Bombay J. Nat. Hist. Soc. **17**.

Emphytus perla ♀ = (*Phylloecus eburneus* André, FORSIUS (137) Helsingfors Medd. Soc. Fauna Fl. Fenn. **32**.

Eriocampa adumbrata, larval habits, MOLZ Jahresber. Ver. angew. Bot. **3** (65-75)

†*Eriocampa wheeleri* sp. n. Florissant, COCKERELL (500) New York N.Y. Bull. Amer. Mus. Nat. Hist. **22**.

Gymnia transtillata Peru (191), *blanda* Brazil, *alterna*, *perata*, (241), *galumnata* Brazil, *amictoriana* Peru, (242), *culticornis* Bolivia (243), KONOW Zs. Hymenopter. **6**, spp. n.

†*Hemichroa eophila* sp. n. Florissant, COCKERELL (501) New York Bull. Amer. Mus. **22**.

Hemidianeura fucata (189), *illisa* (190), Brazil, *tenebrica* (191) Surinam, KONOW Zs. Hymenopter. **6**, spp. n.

Hylotoma and *Arge*, synonymical and varietal notes, KONOW (322-328, 386, 387) T.c.

Hyperoeeros gen. n. *Pterygophorides*, (369), *peruanus* sp. n. Marcapata (370), KONOW T.c.

Labidarge pictipes Guatemala (177), *forficulata*, *nigripes*, (178), *suda*, *galumnata*, *nigricollis*, (179), *strophosa*, *ineulta*, (180), S. America, **sp. n.**; *torquata* var. n. *schrottkyi* (181); KONO W T.c.

Loboceros trinotatus (346), *binotatus* (368), Brazil, KONO W T.c., **sp. n.**

Lophyrus gaullei **sp. n.** Algeria, KONO W (123) T.c.—*L. similis* Htg., BAUER Natw. Zs. Landw. Stuttgart 4 1906 (84-92).

Lyda pratensis, SCHOLZ Aus. d. Heimat Stuttgart 19 (72-73).

Lygaconematus, table of British MORICE (249-251) Ent. Mag. London 42.

Macrophya diversipes var. n. *passerini*, GIUGI Annuario Mus. Napoli 1 No. 21 (8 and 28).

Megalodontes decussatus Transcaspian, KONO W (254) Zs. Hymenopter. 6, **sp. n.**

Monophadnus rivalis Java, KONO W (329) T.c., **sp. n.**

Nematoneura mitellata Brazil, KONO W (186) T.c., **sp. n.**

Nematus; table of British; MORICE (82, 83) Ent. Mag. London 42.—*N. marginifer*, *stordalensis* **sp. n.**, ARKTISCH, STRAND (30) Rep. Norweg. Arctic exp. Fram No. 3.—*N. orientalis* **sp. n.** Quetta, CAMERON (90) Bombay J. Nat. Hist. Soc. 17.—*N. erichsoni* life-history, MACDOUGALL J. Board Agric. fish. London October 1906 (12) 1 pl.—*N. marlatti* **nom. n.** für *borealis* Marl., SCHULZ (80) Spolia. hymenopt.

Odontophyes ferruginea **sp. n.** Kansas, BRIDWELL (94) Ent. News 17.

Pachynematus; British tabulated, MORICE (206-210) Ent. Mag. London 42.

Paralypia lacertosa Brazil, KONO W (368) Zs. Hymenopter. 6, **sp. n.**

Periclista andrei Spain, KONO W (329) T.c., **sp. n.**

Philomastix Frogg., SCHULZ (81-84) Spolia hym.

Pontania; table of British, MORICE (80, 81) Ent. Mag. London 42.—Danish larvae and galls, JÖRGENSEN Kjöbenhavn Ent. Medd. 3 (113-126) 1 pl.

Priophorus simplicicornis Cress. ♂ (305), *aequalis* Nort. ♂ (306), *solitarius* Dyar ♀ (307); *P. acericaulis* **sp. n.** Connecticut (306); MACGILLIVRAY Canad. Entomol. 38.—*P. acericaulis* injuring maple, natural history, BRITTON (313-321) pl. xiv Ent. News 17.

Pristiphora; table of British, MORICE (246-249) Ent. Mag. London 42.

Pseudoclavellaria **nom. n.** for *Clavellaria* Leach, SCHULZ (87) Spolia hym.

Ptenus Nort. redefined (182); *gaullei* Guiana (183), *prodigus* (184), *humerratus*, *segrex*, (185), Brazil; KONO W Zs. Hymenopter. 6.

Pteronus; table of British, MORICE (130-133) Ent. Mag. London 42.—*P. arapahonum* **sp. n.** Colorado, COCKERELL (220) Ent. News 17.

Rhadinoceraca nodicornis larva, KONO W (347) Zs. Hymenopter. 6.

Rhogogastera bituberculata **sp. n.** Kashmir, CAMERON (289) Bombay J. Nat. Hist. Soc. 17.

Sericoceros calanticatus, *ricatus*, (245), *bigrammatus*, *declivis*, (246), *mulsus*, Brazil, *mammatus* Peru, (247), *proeus*, *ruminatus*, (248), *coxalis*, *socius*, (249), *pauxillus* (250), Brazil, KONO W Zs. Hymenopter. 6, **sp. n.**

Stelidarge duckei Brazil, KONO W (253) T.c., **sp. n.**

Stromboceros laevis = (*coeruleiceps* Cam.), *albarius* **nom. n.** for *phaleratus* Kon. 1903, KONO W (388) T.c.

Tanymeles **gen. n.** *Schizocerides*, *hilarulus* **sp. n.** Brazil, KONO W (244) T.c.

Tanyphatna **gen. n.** *Schizocerides*, *pellos* (187), *catinifera*, *exilipalpis*, (188), **sp. n.**, Brazil; KONO W T.c.—*T. mamillata* Bolivia, KONO W T.c., **sp. n.**

Tenthredo nimbata (126), *T. suta* (127), Sikkim, **sp. n.**; *T. finschi* Kirby (125); KONO W T.c.—*T. umbonigera* Sumatra, KONO W (331) T.c., **sp. n.**

Trichiosoma nigricoma Solowetzki islds., *opaca* Siberia, **sp. n.**, KONO W (122) T.c.

Tristegus **gen. n.** *Perregides* (370), *mimarius* **sp. n.** Bolivia (371), KONO W T.c.

(*Selandria* (*Monophadnus*) *pariei* SAUSSURE, Mission Pavie 3, sp. n.)

LEPIDOPTERA.

SEITZ, Adalbert. Die Gross-Schmetterlinge der Erde. Eine systematische Bearbeitung der bis jetzt bekannten Grossschmetterlinge. Lfg. 1-2 1906 (1-20) mit 5 Taf.

Nomenclature of certain genera of Hübner; SEMPER D. ent. Zs. Iris **18** (242-244).

Copal-Schmetterlinge. EVERS Ent. Jahrb. Leipzig **16** 1907 (129-132).

Pigmentbildung bei den Schmetterlingen. SOLOWIOW Zs. wiss. Insektenbiol. Husum **2** 1906 (328-329).

Rhopalocera.

British butterflies, illustrated work; SOUTH.

Butterflies of Hongkong, illustrated work; KERSHAW.

Butterflies of Asama Mountain, habits of, (Japanese.) TAKANO, Takazō. Konch. Sek. Gifu **10** 1906 (16-19, 49-51).

CARY, Merritt. On the diurnal Lepidoptera of the Athabaska and Mackenzie region, British America. Washington D.C. Smithsonian Inst. U. S. Nation. Mus. Proc. **31** 1906 (425-457).

The butterflies of Montana, with keys for determination of species. A nature study bulletin, for the use of teachers, students and others who wish to study the butterflies. ELROD Missoula Univ. Mont. Bull. No. **30** (Biol. Ser., No. **10**) 1906 (xvi + 174 + 11.), with 13 pl. & 1 col. 125 fig.

The butterflies of the west coast of the United States; WRIGHT.

Rest-attitudes of *Rhop.*, vide p. 146.

Mimicry among butterflies from Victoria Nyanza, NEAVE (207-224) pls. ix-xii London Trans. ent. Soc. 1906.

Die ersten Stände einiger Tagfalter. (Eier- und Raupen-Beschreibungen.) GILLMER Insektenbörse Leipzig **23** 1906 (8, 11-12, 14-15, 19-20, 22-23, 26-27). — Zur Entwicklungsgeschichte einiger Tagfalter. GILLMER Ent. Zs. Guben **20** 1906 (130-131, 137-138).

Spermatogenesis *Papilio*; MUNSON Boston Mass. Proc. Soc. Nat. Hist. **33**.

PAPILIONIDAE.

Papilio; Nomenklaturfrage, STICHEL Ent. Zs. Guben **19** (189-190, 199-200).

Papilio: revision of American, with 8 spp. n. and many subspp. n., 70 figures: the synonymy and n. subspp. are not here recorded: ROTHSCHILD and JORDAN Nov. Zool. Tring **13** (411-752) pls. iv-ix.

P. homothoas Orinoco etc. (561) pl. v f. 13, *trapeza* Ecuador (669) pl. v f. 15, *oberthueri* Honduras (696) pl. vi f. 25, *molops* S. America (710) pl. ix figs. 60-62, *helios* Brazil (720) pl. vi f. 30, *stenodesmus* Paraguay (722) pl. ix f. 68, *caris* Ecuador (723) pl. vi f. 32, *callias* (= *columbus* Hew. nec Kollar) S. America (739); ROTHSCHILD and JORDAN Nov. Zool. Tring **13**, spp. n.—*P. uganda* Entebbe, LATHY (9) pl. ii f. 11 London Trans. ent. Soc. 1906, sp. n.—*P. phidias* Annam, OBERTHUR Paris Bull. soc. ent., **1906** (156), sp. n.—*P. caburi* Guiana KAYE (51) pl. ii f. 1 Entomologist London 1906, sp. n.—*P. aristolochiaeformosensis*, *bianor-formosanus*, (222), *polyctor-hermosanus* (223), subspp. n., REBEL Wien Verh. Zool.-bot. Ges. 1906. — *P. polydorus* subsp. n. *varus*, FRUHSTORFER Ent. Zs. Guben **20** (9-10). — *P. coloro* var. n., WRIGHT butterflies west coast U. S.—*P. rutulus* var. n. *arcticus* (379), SKINNER Ent. News **17**. — *P. dardannus trimeni* new form (283) pl. xix f. 1, mimicry (281-298) pls. xvii-xx, POULTON London Trans. ent. Soc. 1906.—*P. ajax*, habits, ROWLEY Ent. News **17** (175-177). — *P. jordani*, FRUHSTORFER Ent. Zs. Guben **20** (65-66). — *P. machaon* var., LONITZ Gera Jahresber. Ges. Natw. **46-48** (1903-1905) (170-172); III Generation, HANNEMANN, Ent. Zs. Guben **20** 1906, (216); Bemerkung dazu v. A. Glöckner, op. cit. **20** 1907 (249-250); Parasitismus, FISCHER Ent. Zs. Guben **19** (186-187). — *P. podalirius* L. ab., A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (485); *P. podalirius pallistriga* subsp. n., SCHÜLTZ (105-111) Nyt. Mag. Naturv. Kristiania **44**.

Parnassius balucha, Baluchistan, MOORE (47) Ann. Mag. Nat. Hist. ser. **7** **18**, sp. n.—*P. apollo*, SCHULTZ Ent. Zs. Guben **20** (117-118); *P. apollo* et ab. *pseudonomion*, A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (486-

1871.—*P. citrinarius melanochoera* var. n., REBEL (225) Wien Verh. Zool.-bot. Ges. 1906.—*P. szechenyi* Friv. var. n. *germanae*, AUSTAUT Ent. Zs. Guben **20** (66-68).—*P.* var. n. California and British Columbia, WRIGHT butter. west coast U. S.—*P. phoebus sacerdos* n. n. (= *delius* Esp.), *ph. apricatus* n. subsp., *P. apollo melliculus* n. subsp., *a. pumilus* n. subsp., *P. mnemosyne athene* n. subsp., *P. jacquemontii rubicundus* n. subsp., *j. variabilis* n. subsp., *P. imperator renustus* n. subsp., STICHEL Berliner Ent. Zs. **51** (81-94) pl. ii.

Thais polyxena ab., A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (485-486).

Troides (*Ornithoptera*) *obiana* Obi, REBEL (220) Wien Verh. Zool.-bot. Ges. 1906, **sp. n.**—*T. chimaera* Rothsch., pl. iii f. 1, JORDAN (759) Nov. Zool. Tring **13**.

PIERIDAE.

Anthocharis var. n., *ealiente* **sp. n.** California, WRIGHT butterfl. west coast U.S.

Aporia crataegi var. n. *koyi* ♀ Ungarn, A. AIGNER Rovart. L. **13** (69-75); early stages, FROHAWK (132-138) Entomologist 1906.

Appias ella, hab. Philippinen, = (*Catophaga ardens* Butl.); SEMPER (257) D. ent. Zs. Iris **18**.

Catopsilia; habits, WICKWAR (216-218) Spolia zeylan. **3**: GREEN T.c. (219).

Colias berylla (480) pl. xxxvi f. 18, *nina* not distinct; *C. dubia* **sp. n.** Tibet (481) figs. 8 and 9; ELWES London Proc. Zool. Soc. 1906.—*C. nepalensis* (24) pl. 559 figs. 2 a-g, *zaneka* (25) pl. 560 figs. 1 a-c, *chitralensis* **sp. n.** India (27), *zanekoides* (27) figs. 2 a-c, MOORE Lep. indica **7**.—*C. edusa* et var. *helice*; *C. hyale* abb.; A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (487-488).—*C. hyale sareptensis* u. *C. erate sareptensis*, Unterscheidung, TSCHETVERIKOW Taškent Turk. Odt. Russ. Geogr. Obsč. **4** (30-36).—*C. myrmidone-balkanica-rebeli*, SCHAWERDA (651) Wien Verh. Zool.-bot. Ges. 1906.—*C. werdandi* (245) pl. viii figs. 3 and 4, ROWLAND-BROWN Entomologist 1906.

Dercas wallichii (29) pl. 561 figs. 1 a-d, *lycorias* (30) fig. 2, *doubledayi*

sp. n. India (31) pl. 562 figs. 1 a-e, MOORE Lep. indica **7**.

Euchloë helia Cr. aberr. *philippsi* n. RUDOLPH Ent. Zs. Guben **20** (81); in Deutschland?, KOLBE Insektenbörse Leipzig **23** (167-168).—*E. cardamines*, Futterpflanzen LÖFFLER Ent. Zs. Guben **20** (85-86).

Gandaca **gen. n.** for pt. of *Terias*; *assamica* (33) pl. 563 figs. 1 and 2, *burmanu* (34) figs. 3 a-c, *andamana* (35) figs. 4 a-c, **spp. n.**, India; MOORE Lep. indica **7**.

Gonopteryx rhamni ab., A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (488).

Ixias baliensis, resemblance with *Huphina corva*, DIXEY (521-523) pl. xxxi London Trans. ent. Soc. 1906.

Kibretta **gen. n.** for part of *Terias*, *libythea* (36-38) pl. 564 figs. 1 a-g, *rubella* (38) figs. 2 a-g, MOORE Lep. indica **7**.

Leptosia xiphia (20-22) pl. 559 figs. 1 a, b, *nicobarica* sp. prop. (22), Id. T.c.

Mylothris similis Centr. Africa, LATHY (6) pl. ii figs. 2 and 3 London Trans. ent. Soc. 1906, **sp. n.**

Nirmula **gen. n.** for part of *Terias*, *venata* (40) pl. 565 figs. 1 a-b, *rama* (42) figs. 3 a-d, *laeta* (44) pl. 566 figs. 1 a-i; *rama* (42) pl. 565 figs. a-d, *sikkima* (43) figs. 4 a b, *pseudolaeta* (44) pl. 566 figs. 1 j-m, **spp. n.**, India; MOORE Lep. indica **7**.

Nychitona; distastefulness, DIXEY (Ixix-lxxi) London Proc. ent. Soc. 1906.

Pieris brassicae, wandernde, METZGER Prakt. Bl. Pflanzenbau **4** (126-127).—*P. duplidice* **gen. vern. bellidice**, ab., A. AIGNER, Ann. Hist.-Nat. Mus. Nat. Hung. **4** (487); early stages, FROHAWK (193-196) Entomologist 1906.—*P. pigea* ab. pl. ii f. 4, *liliana* ab. f. 5, LATHY London Trans. ent. Soc. 1906 (7).—*P. rapae* var. *leucosoma* ♀, BARTEL (225) Wien Verh. zool.-bot. Ges.

Tachyris galba (17-19) pl. 558 fig. 2 a-d, MOORE Lep. indica **7**.

Teracolus castalis ab. pl. ii f. 6, *bacchus* gynandromorph figs. 7 and 8 (8), *eupompe* abb. figs. 9 and 10 (9); LATHY London Trans. ent. Soc. 1906.

Terias; east Indian spp. described and figured (47-64) plates 567-570; *aesiopeoides* (60) pl. 569 figs. 1 a-d, *davidsoni* (63) pl. 570 figs. 1 a-g, **spp. n.**, India; MOORE Lep. indica 7.

DANAIDAE, ITHOMIIDAE, ACRAEIDAE,
HELICONIIDAE.

Müllerian resemblance among, *Ithomiinae* and *Heliconiidae*, KAYE (414-434) plates xxiii-xxvii London Trans. ent. Soc. 1906.

Acraea mirifica Angola pl. i f. 2, *acutipennis* Rhodesia f. 3, (2), *angolanus* Angola figs. 4 and 5 (3); LATHY London Trans. ent. Soc. 1906, **spp. n.**—*A. cerita* Uganda, SHARPE (75) Ann. Mag. Nat. Hist. Ser. 7 **18**, **sp. n.**—*A. aglaonice* pl. iv f. 4 (64-66), TRIMEX London Trans. ent. Soc. 1906.—*A. chaeribula*, etc., seasonal forms, NEAVE and MARSHALL (lxxxiv-lxxxv) London Proc. ent. Soc. 1906.—*A. johnstoni* mimicry (297-311) plates xxi and xxii, synonymy of varr.; POULTON London Trans. ent. Soc. 1906.—*A. egina*, larva, AURIVILLIUS (2) Uppsala Arkiv. Zool. **3** No. 1.

Chlosyne pantoni Jamaica, KAYE (52) pl. ii f. 6 Entomologist London 1906, **sp. n.**

Danaïs chrysippus Aralsee, TSCHETVERIKOW Taškent Izv. Turk. Otd. Russ. Geogr. Obsč. **4** (30-36).

Euclides nigrofulva Guiana, KAYE (52) pl. ii figs. 4 and 5 Entomologist London 1906, **sp. n.**—*E. isabella brunnea* pl. v f. 25 (55), *ricini* f. 26 (56), *lampeto amoena* pl. vi f. 27, *edias edias* f. 28, (57), *pavans* f. 29 (58), *olympia* f. 30 (60), *heliconioides heliconioides* f. 31, *canes pluto*, f. 32 (61), STICHEL Gen. ins. **37**.

Euploea kuroiwa **sp. n.** Okinawa, MATSUMURA Annot. Zool. Jap. **6** (9) pl. i f. 1.—*E. nagasena* **sp. n.** Batu Inseln, FRUHSTORFER (131) Ent. Zs. Guben **20**.—*E. (Crastia) abjecta*, characters, habitat, SEMPER (248-250) D. ent. Zs. Iris **18**.

Heliconiinae; characters of the genera, and lists of species, STICHEL Gen. ins. **37**.

Heliconius numatus praelantus subsp. n. pl. i f. 2 (10), *silvana diffusa* f. 3 (11), *silvana mirificus* subsp. n. f. 3a (12), *schulzi* f. 4, *novatus subnubilus* subsp. n. f. 4a, (14), *hecale* f. 5 (15), *aristion arcuella* pl. ii f. 6 (16), *cydno broncus* subsp.

n. f. 6a (21), *cydnodiatrephes* f. 7 (22), *melpomene aglaope* f. 8 (25), *melpomene ruffiarthi* subsp. n. f. 8a (26), *melpomene richardi* f. 9 (27), *amaryllis euryades* pl. iii f. 10 (28), *choarinnus* f. 11 (30), *aoede bartletti* f. 12 (31), *xanthocles xanthocles* f. 13 (32), *burneyi huebneri* f. 14 (33), *doris luminosa* f. 15, *wallacei wallacei* pl. iv f. 15, (36), *sapho primularis* f. 17 (38), *antiochus antiochus* f. 18, *leucadia leucadia* f. 19, (39), *cyrbia cyrbia* f. 20 (42), *erato elimaea* f. 21 (45), *erato dira* subsp. n. pl. v f. 21a (47), *erato ottonis* f. 22 (48), *charitonia perurianus* f. 23 (49), *telesiphe sotericus* f. 24 (50), STICHEL T.c.—*H. wernickei* (68), *eucherius* (70), **spp. n.**, Bogota, WEYMER D. ent. Zs. Iris **19** (68-71).—*H. silvana* var. n. *divisus* pl. ii f. 3, *tumatumari* **sp. n.** pl. ii f. 6, KAYE (53) Entomologist London 1906.

H. pasithoë fulvescens var. n. (452) pl. xxxiv f. 1, *H. xenoclea* varr. n. *superba* f. 2 and *confluens* f. 3, (453), LATHY London Proc. Zool. Soc. 1906.—*Heliconius erato estrella* f. n. *simplex*, RIFFARTH Insektenbörse **23** (56).—*H. charitonius*, distribution, HOLLAND Ent. News **17** (34).

Ithomia drogheda Venezuela, WEEKS (78) Canad. Entomol. **38**, **sp. n.**—*I. hamlini* **sp. n.** Venezuela, WEEKS, (196) Ent. News **17**.

Pareba resta alticola subsp. n., Westsumatra, FRUHSTORFER, Entomol. Ztg. Wien **25** 1906 (309).

Penoa pasina **sp. n.** Batu-Inseln, FRUHSTORFER (132) Ent. Zs. Guben **20**.

Planema macarista, Uganda; SHARPE (76) Ann. Mag. Nat. Hist. ser. 7 **18**, **sp. n.**

NYMPHALIDAE.

Nymphalinae and *Lemoniidae* of Borneo, annotated and critical catalogue, SHELFORD J. Straits R. Asiat. Soc. No. 45 1905 (89-136).

Verzeichnis der von mir in Tonkin, Annam und Siam gesammelten Nymphaliden . . . FRUHSTORFER, Entomol. Ztg. Wien **25** (307-362) 2 Taf.

Dunkle Stellen im Leben mancher Argynnid. GILLNER Insektenbörse Leipzig **23** 1906 (111-112). Weitere Bemerkungen dazu, T.c. (132). Also Insektenbörse Leipzig **23** 1906 (60, 92).

Adelpha oronoco Venezuela, WEEKS (76) Canad. Entomol. **38**, **sp. n.**

Apatura modesta Mou-Pin, OBERTHÜR Etudes Lep. fasc. 2 (19) pl. vii f. 4, **sp. n.**; *H. fulva* Leech is male and *subcaerulea* female of one species T.c. (20).—*A. iris*; larvae habits, larva hatched from egg of dead imago; ANDREWS (224-228) Ent. Mag. London 42.—*A. ilia, iris* abb. A. AIGNER, Ann. Hist.-Nat. Mus. Nat. Hung. 4 (488-489).

Araschnia prorsa var. n. *schultzi*, PFITZNER D. ent. Zs. Iris Berlin 18 (277).—*A. levana* ab., A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. 4 (489-490).

Argynnis varr. n. California, WRIGHT butterfl. west coast U.S.—*A. adippe* var. *eleodoxa, aglaja, charlotta*, et ab. *emilia, daphne, dia* et ab. *hudaki, euphrosyne, latonia* et ab. *valdensis, niobe* et ab. *eris* et ab. *pelopia, pales, pandora, paphia* et ab. *nigricans, selene* et ab. *rindaldus*, aberrations, A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. 4 (500-512).—*A. aglaja*, Melanismus, LAKATOS Rovart. L. 13 (58-60); date of appearance, STEPHAN Insektenbörse 23 (188).—*A. dia* var. *hudaki*, A. AIGNER Rovart. L. 13 (69-75).—*A. eugenia* var. n. *montana*, BANG-HAAS (127) D. ent. Zs. Iris 19.—*A. paphia* subsp. n. *tsushimana*; FRUHSTORFER Ent. Zs. Guben 20 (25-26); *paphia valesina*, status, GARBOWSKI (471-474) Wien Verh. zool.-bot. Ges. 1906; *paphia*, hermaphrodite, WENKE Zs. wiss. Zool. 84 (95-138) 2 Taf.—*A. frigga* subsp. n. *amae* Tarbagatai, SUSCHKIN Rev. russ. ent. 6 (5-7).—*A. polaris* var. n. *americana* Arktisch, STRAND (30) Rep. Norweg. Arctic exp. Fram No. 3.

Athyma; = subgen. of *Pantoporia* and revised, with numerous subsp. n.; *jagori* Luzon (402), **sp. n.**; FRUHSTORFER Wien Verh. zool.-bot. Ges. 1906 (384-434).—*A. euloca* Borneo, SHELFORD (107) J. Straits Asiat. Soc. No. 45, **sp. n.**

Byblia goetzius ab. (4) pl. i f. 6, LATHY London Trans. ent. Soc. 1906.—*B. anartara*, larva and pupa, AURIVILLIUS (3) Uppsala Arkiv. Zool. 3 No. 1.

Cethosia cydippe sangira subsp. n., FRUHSTORFER (215) Ent. Zs. Guben 19.—*C.* subsp. n., FRUHSTORFER Entomol. Ztg. Wien 25 1906 (331-335).

Charaxes peculiaris Rhodesia, LATHY (125) Entomologist 1906, **sp. n.**—*C.*

jasius, Zucht, REINBERGER Ent. Zs. Guben 20 (29).—*C. durnfordi everetti* ♀, SHELFORD (130) J. Straits R. Asiat. Soc. No. 45.

Cirrochroa; subsp. n. *C. elagia elagina* pl. 1 f. 3, FRUHSTORFER Entomol. Ztg. Wien 25 (323-333).

Cynthia arsinöe varr. n., FRUHSTORFER (215) Ent. Zs. Guben 19.—*C. erota* varr. n., FRUHSTORFER Entomol. Ztg. Wien 25 (335).

Dryas paphia oviposition, MERRIFIELD (264) Ent. Rec. 1906.

Eccesia [*Aeria* ?] *klagesii* **sp. n.** Venezuela, WEEKS (195) Ent. News 17.

Eresia cf. *Eccesia*.

Ergolis subsp. n., *specularia* and *area* pl. 1 f. 1, *E. phemonöe* f. 2, FRUHSTORFER Entomol. Ztg. Wien 25 (310-313).

Euphaedra wissmanni **sp. n.** Kongo (25), NIEPELT Ent. Zs. Guben 20.—*E. peculiaris* Uganda, LATHY (5) pl. i figs. 8 and 9 London Trans. ent. Soc. 1906, **sp. n.**

Euralia wahlbergi and *mima* distinguished, LEIGH (liii-lvii) London Proc. ent. Soc. 1906.

Euripus eurinus varr., FRUHSTORFER (315-318) pl. i figs. 4-6 and pl. ii figs. 7-10 Entomol. Ztg. Wien 25.

Euryphene entebbiae Uganda, LATHY (5) pl. ii f. 1 London Trans. ent. Soc. 1906, **sp. n.**—*E. mardania*, pupa, AURIVILLIUS (4) Uppsala Arkiv. Zool. 3 No. 1.

Euthalia; revision of Bornean species; SHELFORD Singapore, J. Straits R. As Soc. No. 45 (110-122).—*E. tinna* **sp. n.** with subsp. n. *agniformis* and *paupera*, *E. agnis modesta* subsp. n., *alpheda* subsp. n. *kenodotus, krannon* and *yamuna, decorata: natuna* subsp. n., *jama* Feld. f. tempest. or subsp. n. *jamida*; FRUHSTORFER Insektenbörse 23 (18-19).—*E. (Dophla) undosa* **sp. n.** Malay penins.; *garuda* subsp. n. *meridionalis* and *purana, vascenta* f. n. *fulica*; FRUHSTORFER T.c. (59-60).—*E. nora* subsp. n., FRUHSTORFER (109-120) D. ent. Zs. Iris 19.

Grapta chrysoptera **sp. n.** California, WRIGHT butterfl. west coast U.S.

Harma coranus pl. iv figs. 5 and 5a (66), TRIMEN London Trans. ent. Soc. 1906.

Herona marathus subsp. n. *marathon* Tonkin, FRUHSTORFER Entomol. Ztg. Wien **25** (349).

Hypolimnas arakaluk Karolinen Arch., SEMPER (253) D. ent. Zs. Iris **18**, sp. n.—*H. bolina*, *missippus*, mimicry. YOUNG Bombay J. Nat. Hist. Soc. **17** 1906 (418).

Junonia; subspp. n., FRUHSTORFER Entomol. Ztg. Wien **25** (352-362).

Lebadea para sp. n. Batu-Inseln, FRUHSTORFER (121) Ent. Zs. Guben **20**.

Limenitis proeris subsp. *undifragus* n., *L. p.* forma temp. *chlaena* n., *L. p.* subsp. *milonia* n., *L. p.* subsp. *minoë* n., *L. p.* subsp. *floresiana* n., FRUHSTORFER Ent. Zs. Guben **20** (61-63).—*L. populi*; ROTHE Ent. Zs. Guben **20** (88-89).

Melitaea aurinia abb. *nigrolimbata*, *atricolor*, *impunctata*, *sesostris*, *sebaldis* nn., SCHULTZ Ent. Zs. Guben **19** 1906 (205-206); variation in Galway, KITCHIN (31) pl. i Entomologist London 1906.—*M. cinxia*, *didyma* and *phoebe* varr. n., A. AIGNER Rovart. L. **13** (69-75).—*M. didyma* ab. n. *livida*, KLEMENSIEWICZ (160) Wien Verh. zool.-bot. Ges. 1906.—*M. cinxia* var., LANZ (52-54) Regensburg Ber. natw. Ver. **9**.—*M. athalia*, et ab. *corythalia*, et ab. *nararina*, *cinxia* et ab. *horváthi*, *dictynna*, *didyma* et ab. *alpina* et ab. *fischeri* et ab. *meridionalis*, *parthenie* et ab. *varia*, *phoebe*, *trivia* aberration; A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. Budapest **4** 1906 (490-500).—*M. athalia* copula with *Polygonia*, SCHNEIDER (107) D. ent. Zs. Iris **19**.—*M. trivia* var. n. *pseudodidyma*, REBEL (194) Wien Ann. Nat. Hist. Hofmus. **20**.—*M. sindura* var. *sikkimensis* and *M. tibetana*, ELWES (483) London Proc. zool. Soc. 1906.—*M. chalcædon*, pattern variation pupa, RAMSAY Psyche **13** (136) pl. viii.—*M. cerrita*, *clancha*, *colonia*, *eremita*, *hermosa*, *sabina*, *sierra*, spp. n.; *abnorma*, *augustina*, *leona*, *mirabilis*, varr. n.; N. America; WRIGHT butterfl. west coast U.S.

Microtia elva-horni subsp. n., REBEL (377) Wien Verh. zool.-bot. Ges. 1906.

Neptidopsis ophione larva, AURIVILLIUS (3) Uppsala Arkiv. Zool. **3** No. 1.

Neptis thisbe varr. n. *obscurior* pl. ix f. 1, *dilutior* fig. 2, *theodora* f. 3, (9); *yunnana* (11) pl. viii f. 1, *nemorum* (12) f. 3, *meloria* (12) f. 5, *annaika* f. 5,

noyala f. 7, (13), *patricia* (14) f. 6, *sylvana* (16) pl. ix f. 6, *nemorosa* (16) f. 5, *sylria* (18) f. 4, Chinese Tibet, OBERTHÜR Etudes Lep. comp. fasc. **2**, spp. n.

Pantoporia, cf. *Athyma*.

Paromia melania dimorphism and mimicry, OBERTHÜR (21-27) pl. vii figs. 1 and 2 Etudes Lep. comp. fasc. **2**.

Phyciodes pascoensis var. n., Washington, WRIGHT butterfl. west coast U.S.

Polygonia e-album variation, SLEVOGT Insektenbörse (152 and 163); ab. *f-album* Esp. bei Berlin, FASSL Ent. Zs. Guben **20** (110).

Potamis ambica martini subsp. n. *ambica miranda* pl. ii f. 11, Sumatra, FRUHSTORFER Entomol. Ztg. Wien **25** (343).

Precis; seasonal forms, POULTON (lvii-lx) London Proc. ent. Soc. 1906.—*P. hedonia apollonia* subsp. n. Sunbawa, FRUHSTORFER Entomol. Ztg. Wien **25** (351).

Prepona meander f. n. *pseudomeander*, FRUHSTORFER Ent. Zs. Guben **20** (150).

Prothoë australis subsp. n. *mafalda*, *decolorata* form. n. *menodora*, FRUHSTORFER D. ent. Zs. Iris **19** (43-50).

Protogonius hippona characters and variation, KAYE (49-51) Entomologist London 1906.

Pseudacraea albostriata Uganda, LATHY (4) pl. i f. 7 London Trans. ent. Soc. 1906, sp. n.—*P. eginoides* sp. n. Kamerun (174), SCHULTZE Insektenbörse **23**.

Pyrameis cardui subspp. n. *carduelis*, *priameis*, SCHULTZ (105-111) Nyt. Mag. Naturv. Kristiania **44**; immigration; CAMPBELL-TAYLOR (206, 207) Entomologist 1906 and MATHEW T.c. (209).

Rohana; subspp. n., FRUHSTORFER Entomol. Ztg. Wien **22** (343-347).

Synechloe californica sp. n. California, WRIGHT butterfl. west coast U.S.

Terinos clarissa, *malayana* and *dinnaga* subspp. n., FRUHSTORFER Insektenbörse **23** (12).—*T. thetys* subsp. n. *udaos*, *T. taxiles* subspp. n. *amplior*, *poros*, *helleri*, FRUHSTORFER (47-48) T.c.—*T. militum lioneli* nom. n. für *T. clarissa* Nicéville, FRUHSTORFER (104) T.c.—*T. spp.*, *militum lioneli* f.

temp., Tenasserim, FRUHSTORFER
Entomol. Ztg. Wien **25** (336-341).

Vanessa; experimental variation, SCHÜLKE (142-145) Königsberg Sehr. physik. Ges. **46** Sitz. Ber.—*V. antiopa* ab., A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (489).—*V. hippomene* variation of larva and pupa, MANDERS (41) Entomologist London 1906.—*V. indica*, *atalanta*, *cardui*, YOUNG Bombay J. Nat. Hist. Soc. **17** (422).—*V. tameamea* orthography, KIRKALDY (138) Entomologist 1906.—*V. urticae* varr. *ladakensis* Moore u. *chinensis* Leech, Genitalarmatur, taxonomischer Werth, PETERSEN St. Petersburg Hor. Soc. Ent. Russ. **37** (347-351) Taf. Ia.; Experimentelle Versuche an Raupen und Puppen; nov. ab. *consentanea* JACHONTOV Rev. russ. ent. **6** (10-18); Goldpuppenbildung; MEXSIK Zs. Ent. N. F. H. **31** (15-18); TORKA, Posen Zs. D. Ges. Wiss. natw. Abt. **13** (51-55).

BRASSOLIDAE, MORPHIDAE and allies.

Aemona amathusia oberthuri subsp. n. pl. iv f. 9, *Ae. lena* f. 10, STICHEL Gen. ins. fasc. **36**.

Amathusiinae; the genera, and list of the forms, STICHEL T.c.

Amathusia virgata pl. ii f. 1 (12), STICHEL T.c.

Amathuridia plateni plateni pl. ii f. 2 and pl. iii f. 3 (15), STICHEL T.c.

Brassolis ornamentalis sp. n. Brasilien (209), STICHEL Ent. Zs. Guben **20**.

Catoblepia amphirhoe f. *placita* n., *C. berecynthia* subsp. *adjecta* n.; STICHEL Ent. Zs. Guben **20** (209-210, 217).

Faunis menado menado pl. v f. 11 (33), *acrope excelsus* f. 12 (36), STICHEL Gen. ins. fasc. **36**.

Morphopsis meeki R. and J. pl. iii figs. 2 and 3, JORDAN (759) Nov. Zool. Tring **13**.

Stichophthalma louisa matilda pl. iv f. 7, *S. neumogeni* f. 8, STICHEL (28) Gen. ins. **36**.

Taenaris diana diana pl. v f. 13 (41), *phoreas uranus* f. 14, *selene* pl. vi f. 15, (44), *wahnesi senaria* subsp. n. f. 16 (48), *cyclops agasta* nov. form. f. 17 (49), *artemis myopina* f. 18 (51), STICHEL T.c.

—*T. wahnesi* ab. n. *tricolatus*, THIELE Insektenbörse **23** (40).

(*Taenaris*; subsp. n.; FRUHSTORFER, Entomol. Ztg. Wien **24** 1904 (57-89).)

Thaumantis noareddin sultanus subsp. n. (19) pl. iii f. 4, STICHEL Gen. ins. **36**.

Zeuxidia doubledaii sumatrana (104), *nicevillei nicevillei* (105), subsp. n., FRUHSTORFER D. ent. Zs. Iris **19**.—*Z. nicevillei* pl. iii f. 6, STICHEL (22) Gen. ins. **36**.

(*Stichophthalma mathilda* JANET, Paris Bul. soc. ent. **1905**, sp. n.)

SATYRIDAE.

Aphrontopus sajanus Sajan, BANG-HAAS (128) D. ent. Zs. Iris **19**, sp. n.—*A. hyperanthus* ab., A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (513).

Bia actorion-atalanta var. n., REBEL (224) Wien Verh. zool.-bot. Ges. 1906.

Callerebia waltoni Tibet, ELWES (482) pl. xxxvi figs. 14 and 15 London Proc. zool. Soc. 1906, sp. n.

Coenonympha arcania var. n. *macrophthalmica*, GALVAGNI Wien Verh. zool.-bot. Ges. 1906 (81) and (615); ab., A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (513).—*C. mathewi* and *dorus*, CHAPMAN (xcix) London Proc. ent. Soc. 1906.—*C. hero*, egg, GILLMER Insektenbörse **23** (114, 115).

Coenyyra rufiplaga Transvaal, TRIMEN (59) pl. iv f. 1, London Trans. ent. Soc. 1906, sp. n.

(*Coenonympha raucheri* (+ aberr. *geminipuncta* nov.) BLACHIER Bul. soc. ent. **1905**, sp. n.)

Erebia rheano var. n. *lederi*, BANG-HAAS (127) D. ent. Zs. Iris **19**.—*E. euryale* var. n. *aretica*, POPPIUS (5) f. 1 Helsingfors Acta Soc. Fauna Fl. Fenn. **28** No. 3.—*E. medusa* var. *psodea*, *nerine*, abb.; A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (512).

Henotesia ochracea Angola, LATHY (1) pl. i f. 1 London Trans. ent. Soc. 1906, sp. n.

Melampias epiphron partial second brood, ALDERSON (265) Ent. Rec. 1906.

Melanargia galatea and *japygia* varr. n. Ungarn, A. AIGNER Rovart. L. Budapest **13** (69-75); *franzensassi* ab., A. AIGNER Ann. Hist.-Nat. Mus. Nat.

Hung. **4** (512).—*M. syllius* ab. n. *limbata* NEUSTETTER (382) Wien Verh. zool.-bot. Ges. 1906.—*M. lachesis* egg and young larva, POWELL (302-305) pl. xiv Ent. Rec. 1906.—*M. lucasi* egg and early stages, (29) pl. iii f. 8, LUCAS Paris Ann. soc. ent. **75**.

Neocoenyrja jordani Zanzibar, REBEL (647) Wien Verh. zool.-bot. Ges. 1906, **sp. n.**

Pararge nutakana **sp. n.** Formosa, MATSUMURA Annot. Zool. Jap. **6** (11) pl. i f. 6.—*P. achine* ab., A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (512-513).

Pronophila rosenbergi, unifasciata, Ecuador, LATHY (77) Entomologist 1906, **spp. n.**

Pseudonympha and *Neocoenyrja* (61), *P. duplex* var. pl. iv f. 2, *natalii* ♂ (63) f. 3. TRIMEN London Trans. ent. soc. 1906.

Satyrus nagasawae **sp. n.** Formosa, MATSUMURA Annot. Zool. Jap. **6** (10) pl. i. f. 3.—*S. stephensi* **sp. n.** California and Oregon, WRIGHT butterfl. west coast U.S.—*S. briseis* L., AIGNER-ABAFI Ent. Zs. Guben **20** (11-12); variation, A. AIGNER, Rovart. L. **13** (60-64).—*S. dryas* ab., A. AIGNER (512) T.c.

Ypthima riukiwana **sp. n.** Okinawa, MATSUMURA Annot. Zool. Jap. **6** (11) pl. i f. 2.

ERYCINIDAE.

Abisara wallacei theodosia subsp. n.; FRUCHSTORFER Ent. Zs. Guben **19** (215-216).

Charis suapure **sp. n.** Venezuela, WEEKS (199) Ent. News **17**.

Euselasia tysoni **sp. n.** Venezuela, WEEKS (199) T.c.—*E. howlandi* Venezuela, WEEKS (79) Canad. Ent. **38**, **sp. n.**

Lemonias mormo and *virgulti*, life-histories, correction COOLIDGE Ent. News **17** (140).

Mesene rochesteri Venezuela, WEEKS (77) Canad. Entomol. **38**, **sp. n.**

Methonella carveri **sp. n.** Venezuela, WEEKS (200) Ent. News **17**.

Nemeobius lucina L. ab. *schwingenschussi* nov. ab. Krain, REBEL Wien JahrBer. Entom. Ver. **16** (53-73); ab.,

A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. Budapest **4** (513-514).

Nymphidium blakei Venezuela, WEEKS (78) Canad. Entomol. **38**, **sp. n.**—*N. quinoni* **sp. n.** Venezuela, WEEKS (201) Ent. News **17**.

LYCAENIDAE.

Generic names and types of genera, TUTT (129-132) Ent. Rec. 1906.

Aphnaeus takanonis **sp. n.** Hontō, MATSUMURA Annot. Zool. Jap. **6** (12) pl. i f. 7.

Arrugia protumnus (Linn.) pl. vi figs. 20, 20a, 20b, (80); TRIMEN London Trans. ent. soc. 1906.

Aslauga; spp. and sexes; TRIMEN (81) T.c.

Callophrys rubi subsp. *cinerascens*. SCHULTZ (105-111) Nyt. Mag. Naturv. Kristiania **44**.

Candalides oragarra (100), *meeki*, *sublutea*, (101), *grandis* (102). New Guinea; BETHUNE-BAKER Ann. Mag. Nat. Hist. London ser. 7 **17**, **spp. n.**

Catochrysops kabrosae (107), *acholi*, *nandiana*, (108), E. Africa; BETHUNE-BAKER T.c., **sp. n.**

Clastrina **gen. n.** type *argiolus*, TUTT (131) Ent. Rec. 1906.

Chilades trochilus var. n. *grisea* Cyprien, A. AIGNER Rovart. L. **13** (69-75).

Chrysophanus del sud **sp. n.** California, WRIGHT, butterfl. west coast U. S.—*C. virgaureae* var. n. *armeniaca*, BANGHAAS (128) D. ent. Zs. Iris **19**.—*C. aleiphron* ab. *intermedia* LOWE (90) Entomologist 1906; *C. aleiphron*, *dispar* var. *rutilus*, abb., A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (514).—*C. dispar*, pupa, hairs etc., CHAPMAN (15-17) pl. i Ent. Rec. 1906; var. *miegii*, pupa trumpet hairs, Id. T.c. (89) pl. iv.

(*Chrysophanus phoebus* Maroc, BLANCHIER, Paris Bul. soc. ent. **1905**, **sp. n.**).

Cyaniris drucei (102), *acesina* (103), New Guinea; BETHUNE-BAKER Ann. Mag. Nat. Hist. ser. 7 **17**, **spp. n.**

Deloneura (68), *millari* **sp. n.** pl. iv figs. 6, 6a, 6b, (69); TRIMEN London Trans. ent. soc. 1906.

Deudorix grandis R. and J. pl. iii figs. 9 and 10, JORDAN (759) Nov. Zool. Tring **13**.

Durbania limbata Trim. pl. vi f. 21, saga f. 22, TRIMEN (82) London Trans. ent. Soc. 1906.

Epitola mengoensis East Africa, BETHUNE-BAKER (105) Ann. Mag. Nat. Hist. **17**, sp. n.

Hypochrysops meeki R. and J. pl. iii f. 16, JORDAN (759) Nov. Zool. Tring **13**.

Hypolycaena jacksoni E. Africa, BETHUNE-BAKER (106) Ann. Mag. Nat. Hist. ser. 7 **17**, sp. n.—*H. aureolineata* Toro, BETHUNE-BAKER (340) Op. cit. **18**, sp. n.

Iaspis Kaye; type is *Thecla temesa*; DRUCE (334) Ann. Mag. Nat. Hist. ser. 7 **17**.

Incisalia irus, natural history (141–144, 181–185) plates i and ii, *augustus* natural history (214–217) pl. iii, COOK Canad. Entomol. **38**.

Lachnoenema busoga E. Africa, BETHUNE-BAKER (105) Ann. Mag. Nat. Hist. ser. 7 **17**, sp. n.

Lampides baleanica, ab., A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (514–515).

Liptena libyssa orientalis subsp. n. (339); *L. subpunctata* sp. n. Nigeria (340); BETHUNE-BAKER Ann. Mag. Nat. Hist. ser. 7 **18**.

Lowia aleiphron gordius larva, PRIDEAUX (246) Ent. Rec. 1906.

Lycaena younghusbandi Tibet (484) pl. xxxvi f. 10, sp. n., *semiargus* var. n. *annulata* figs. 11 and 12, ELWES (484) London Proc. Zool. Soc. 1906.—*L. harue*, sp. n. Hontō, MATSUMURA Annot. Zool. Jap. **6** (13) pl. i f. 5.—*L. patricia* Trim. pl. v figs. 8 and 8a (73), *ortygia* figs. 9 and 9a, *tantalus* figs. 10 and 10a, (74), *ignota* f. 11, *pephredo* f. 12, (75), *dolorosa* figs. 13 and 13a, (76), *lucida* figs. 14 and 14a, *stellata* pl. vi figs. 15 and 15a, (77), *metopius* figs. 16 and 16a, (78), *boukeri* figs. 17 and 17a, *natalensis* figs. 18 and 18a, (79); TRIMEN London Trans. ent. Soc. 1906.—*L. crersmanni* ab. *amplificata*, *L. eros* ab. *albopicta*, *L. amanda* ab. *stigmatica*, *L. meleager* ab. *limbopunctata*, *L. bellargus* ab. *latefasciata*, *L. miris* ab. *oblitesceus*, *L. charybdis* ab. *exuta*, *L. euphemus* ab.

paula, *L. aleon* ab. *pallidior*, abb. n., SCHULTZ Ent. Zs. Guben **19** 1906 (214–215).—*L. amanda*, *argiades* et gen. vern. *polysperchon*, *argus*, *arion*, *bellargus*, *damon*, *hylas*, *icarus*, *orbitulus*, *semiargus*, Aberrations, A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (515–517).—*L. corydon* var. *corydonius*, SHELTON (ix–xii) London Proc. ent. Soc. 1906; ab. n. *seminigra*, PREISSECKER (87) Wien Verh. zool.-bot. Ges. 1906; var. n. *torquensis* (157), HAVERKAMPF Bruxelles Ann. Soc. ent. Belgique **50**.—*L. bellargus* and *damon* varr. n. Ungarn., A. AIGNER Rovart. L. Budapest **13** (69–75).—*L. escheri-rondoni* subsp. nov. Ch. OBERTHUR (57) Paris Bull. Soc. entom. 1906.—*L. amyntas et eoretas*, variation and distribution; OBERTHUR Ch. Feuille jeunes natural. **36** (149).—*L. argus*, copula, GILLMER Insektenbörse Leipzig **23** (136).—*L. sp. n. L. icarus persica* und *L. elvira*, Aralsee, TSCHETVERIKOW Taschent Turk. Otd. Russ. Gegr. Obsč. **4** (30–36).—*L. melimona* var. n. California, WRIGHT, butterfl. west coast U. S.—*L. arion* larval habits, FROHAWK (145–147) Entomologist 1906; ROTHSCHILD (172) T.c.—*L. aleon* ovum, SICH (263) Ent. Rec. 1906.—*L. amanda*, egg, GILLMER Insektenbörse Leipzig **23** 1906 (114–115).

(*Lycaena icarus* Rott., ab. *polyphemus* Esper, *melanotoxa* Pincitore LEONHARDT, Naturalista sicil. Palermo **18** 1905 (1–3).)

(*Lycaenesthes affinis* nom. mut. (= *Lycaenesthes modestus* Waterhouse not *L. modestus* Standinger) WATERHOUSE and TURNER Sydney N.S.W. Proc. Linn. Soc. **29**, (801).)

Myrina sharpei. Uganda, BETHUNE-BAKER (106) Ann. Mag. Nat. Hist. ser. 7 **17**, sp. n.

(*Neolucia* gen. n. Type *Lycaena agricola* Westwood, WATERHOUSE and TURNER, Sydney N.S.W., Proc. Linn. Soc. **29** (803).)

(*Nesolycaena* gen. n. Type *Holochila albosericea* Miskin, WATERHOUSE and TURNER, Sydney N.S.W. Proc. Linn. Soc. **29** (801).)

Paraduba gen. n. near *Nacaduba*, (103), *owzgarra* sp. n. British New Guinea (101); BETHUNE-BAKER T.c.

(*Paralueia* gen. n. Type *Lucia pyrodiscus* Rosenstock, WATERHOUSE and

TURNER, Sydney N.S.W. Proc. Linn. Soc. **29** (802).

Parelodina arca, colour, BETHUNE-BAKER (100) Ann. Mag. Nat. Hist. **17**.

Pentila ntebi Uganda; BETHUNE-BAKER, (105) T.c., **sp. n.**—*P. eatori* Nigeria, BETHUNE-BAKER (339) Op. cit. **18**, **sp. n.**

(*Polycæna camelita* OBERTHÜR, Paris Bul. Soc. ent. **1903**, (268–270) **sp. n.** Rhopaloceres Erycinides.)

Polymmatous gordius Esp. var. **n. diniensis** CH. OBERTHÜR (25) Paris Bull. Soc. entom. **1906**.—*P. astrarche*, variation with varr. **n.**, HARRISON (236, 237) Ent. Rec. **1906**.—*P. corydon* varr. in Spain, SHELDON (118) Ent. Rec. **1906**; variation in Britain, PICKETT (46–52) London Trans. City Nat. Hist. Soc. **1905**.—*P. donzelii* early stages McDUNNOUGH (313–316) Ent. Rec. **1906**.—*P. astrarche* larval habits, HARRISON (247) Ent. Rec. **1906**.

Rumicia **gen. n.** type *phlaeas*, TUTT (131) Ent. Rec. **1906**.

Spindasis taretensis E. Africa, LATHY (6) pl. i f. 10 London Trans. ent. Soc. **1906**, **sp. n.**

Thecla avalona **sp. n.** California, WRIGHT butterfl. west coast U.S.—*T. madie*, *carteri*, (197), *hosmeri* (198), Venezuela, WEEKS Ent. News **17**, **spp. n.**—*Thecla ilicis* var. **n. fontaineae**, Algier, A. AIGNER Rovart L. **13** (69–75).—*T. w-album* var. *meridionalis*, *T. pruni* subsp. *pallescens*, SCHULTZ (105–111) Nyt. Mag. Naturv. Kristiania **44**.—*T. w-album* pupal skin and hairs, CHAPMAN (263) pl. xi Ent. Rec. **1906**.

Thestor ballus ovum, SICH, food-plant CHAPMAN; (293) Ent. Rec. **1906**.

Zephyrus quercus subsp. *bellus*, *Z. betulae* subsp. *unistrigata*, SCHULTZ (105–111) Nyt. Mag. Naturv. Kristiania **44**; pupal skin and pupal hairs, CHAPMAN (237) pl. Ent. Rec. **1906**.—*Z. betulae*, Raupe, GILLMER Insektenbörse **23** (56); Ei und Eiablage, GILLMER Insektenbörse **23** (42–43).

Zeritis oreas Trim. (80) pl. vi figs. 19 and 19a, TRIMEN London Trans. ent. Soc. **1906**.

Zizera drucei Madagascar, BETHUNE-BAKER (109) Ann. Mag. Nat. Hist. ser. **7** **17**, **sp. n.**

(N-9720 j)

HESPERIIDAE.

Catalogue of palearctic Urbicolides, TUTT 195–198 Ent. Rec. London **18**.

On Dr. Dyar's review of the *Hesperidae*; SKINNER Ent. News **17** (110–112).

Achlyodes melcheri Venezuela, WEEKS (176) Canad. Entomol. **38**, **sp. n.**

Adopæa thaumas subsp. *pallens* f. *pallida*, SCHULTZ (105–111) Nyt. Mag. Naturv. Kristiania **44**.

Aethilla buffumi Venezuela, WEEKS (174) Canad. Entomol. **38**, **sp. n.**

Carystus ambrosei Venezuela, WEEKS (67) Psyche **13**, **sp. n.**—*C. richardi* **sp. n.** Venezuela, WEEKS (201) Ent. News **17**.

Ceratrachia brunnea E. Africa, BETHUNE-BAKER (343) Ann. Mag. Nat. Hist. ser. **7** **18**, **sp. n.**

Chacrophon bouletti Perou, MABILLE (67) Paris Bull. Soc. entom. **1906**, **sp. n.**

Cyclopides ogwanyi East Africa, BETHUNE-BAKER (110) Ann. Mag. Nat. Hist. ser. **7** **17**, **sp. n.**

Eryeides nakawara **sp. n.** Venezuela, WEEKS (70) Psyche **13**.

Nisoniades lacustra **sp. n.** California, WRIGHT butterfl. west coast U. S.—*Nisoniades plummertini* **sp. n.** Venezuela, WEEKS (73) Psyche **13**.

Oxybadistes ardea N. Guinea, BETHUNE-BAKER (343) Ann. Mag. Nat. Hist. ser. **7** **18**, **sp. n.**

Padraona chrysozona, life-history, BANKS (212) pl. ii Philipp. J. Sci. **1**.

Pamphila californica, *chiapa*, **spp. n.**, California, WRIGHT butterfl. west coast U. S.—*P. bryanti*, *chinoba*, Venezuela, WEEKS (175) Canad. Entomol. **38**, **spp. n.**—*P. bobae* (203), *brooksii* (204) Venezuela WEEKS Ent. News **17**, **spp. n.**—*P. verdanta* (67), *mengeli* (68), *winslowi* (69), **spp. n.**, Venezuela, WEEKS Psyche **13**.

Pardalodes kamagamba, *torensis*, Africa, BETHUNE-BAKER Ann. Mag. Nat. Hist. ser. **7** **18**, **spp. n.**

Parnara ogasawarensis **sp. n.** Ogasawarajima, MATSUMURA Annot. Zool. Jap. **6** (13) pl. i. f. 4.

Plestia kikkawai Venezuela, WEEKS (177) Canad. Entomol. **38**, **sp. n.**

Pyrgus occidentalis sp. n. Arizona, SKINNER (96) Ent. News **17**.—*P. syrieh-tus*, *tessellata*, *occidentalis* and *montivagus*; SKINNER Ent. News **17** (277–278 pl. xii).—*P. centaureae*, southern range, COOK (99) Ent. News **17**.

Pythonides hoyti sp. n. Venezuela, WEEKS (202) Ent. News **17**.

Sarangesa ganyi East Africa, BETHUNE-BAKER (109) Ann. Mag. Nat. Hist. ser. 7 **17**, sp. n.—*S. tsava* (341), *subalbicans* (342), Africa, BETHUNE-BAKER Op. cit. **18**, spp. n.

Thanaos parkeri sp. n. Venezuela, WEEKS (72) Psyche **13**.—*T. propertius* var. n. *borealis*, CARY Washington U. S. Nation. Mus. Proc. **31**.—*T. martialis* variability of genitalia, *T. ansonius* Lintn. is a sport, COOK New York J. Ent. Soc. **14** (125–128) pl. iii.

Thymeles pervivax var. n. *aleanderi* Venezuela, WEEKS (71) Psyche **13**.

Urbicula comma, larva trumpet hairs, CHAPMAN (117) pl. v Ent. Rec. 1906.

(*Augiades faunus*, Gavarnie, TURATI, Naturalista sicil. Palermo **18** 1905 (36–33), sp. n.)

Heterocera.

CASTNIIDAE, SESIIDAE.

Castnia icarus, variation, (760) pl. x figs. 1–4, JORDAN Nov. Zool. Tring **13**.

Sesia rufibasalis sp. n. Schweiz (190), BARTEL Ent. Zs. Guben **19**.—*S. culiciformis* var., PLUM (189) Entomologist 1906.

Synemon phaeoptila Queensland, TURNER (136) Adelaide S. Aust. Trans. R. Soc. **30**, sp. n.

Trochilium lasicera Tibet, HAMPSON (495) London Proc. Zool. Soc. 1906, sp. n.—*T. andrenaeforme* life history, ROTHSCHILD, BANKES and CHAPMAN London Trans. ent. Soc. 1906 (471–482) pl. xxviii.

SPHINGIDAE.

Sphingidae dans les faunes paléarctique et en partie paléanarctique (émodosérique) (Russ.) KUSNEZOV St. Petersburg Hor. Soc. Ent. Russ. **37** 1906, (293–343),

Hybrid *Thaumas vesperilio* × *Hyles euphorbiae* = *densoi* n. hybr., MUSCHAMP (237) Ent. Rec. 1906.

Acherontia atropos ab., A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (517–518); TÁBORSKY Ent. Zs. Guben **20** (53–54); Entpuppungsakt, BLUMENTHAL Insektenbörse Leipzig **23**.

Amorpha populi varr., GILLMER Wiesbaden Jahrb. Ver. Natk. **59** (157–171) 1 Taf.; varr. discussed, GILLMER (29 etc.) pl. iii Ent. Rec. 1906.

Chaerocampa boisduvalii, AUSTAUT Ent. Zs. Guben **19** (181–183).—hybr. *pernoldi* Jes., JACOBS D. ent. Zs. Iris Berlin **18** (321–327) mit 1 Taf.

Compsogene panopus celebensis subsp. n., ROTHSCHILD and JORDAN (179) Nov. Zool. Tring **13**.

Daphnis nerii, Raupe, DIEHM Insektenbörse Leipzig **23** (376); tubercles of larva, taxonomy, BACOT (306) pl. xiv Ent. Rec. 1906.

Deilephila euphorbiae rufescens variation, GATNAR (645) Wien Verh. Zool.-bot. Ges. 1906; var. n., PIEZCZEK (6) Wien Verh. Zool. bot. Ges. 1906.—*D. gallii* zweite Generation, HILLER Ent. Zs. Guben **19** (179–180); BRÄUNLICH Ent. Zs. Guben **20** (110–111).—*D. nieaea* var. n. *crimaea*, BANG-HAAS (129) D. ent. Zs. Iris **19**.—var. *livornica* an der Dent du Midi, DENSO Ent. Zs. Guben **20** (155–156).—*D. placida salomonis* subsp. n., ROTHSCHILD and JORDAN (181) Nov. Zool. Tring **13**.—*D. vesperilio* ab. *flava* (21) pl. ii f. 6, BLACHIER Paris Ann. soc. ent. **75**.

(*Deilephila vesperilio* ab. *flava* ab. n. BLACHIER, Paris Bul. soc. ent. **1905**, (52–54).)

Dilina tiliac ab., A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (518).

(*Epistor boisduvali* OBERTHÜR, Paris Bul. soc. ent. **1904**, sp. n.)

Eupteryx molucca subsp. n. *obiana*, HUWE (322) pl. vi f. 5 Berliner ent. Zs. **50**.

Euryglottis allostigmata basalis subsp. n., ROTHSCHILD and JORDAN (178) Nov. Zool. Tring **13**.

Hippotion jordani sp. n. Dammer Ins., HUWE (327) pl. vi f. 3 Berliner ent. Zs. **50**.—*H. osiris* Dahm. (167) f. 28, DISTANT Ins. transvaal.

(*Lepchina* gen. n., *tridens* sp. n. OBERTHÜR, Paris Bul. soc. ent. **1904**, (76-79).)

Libyoclanis gen. n., *bainbridgei* sp. n. Sierra Leone, ROTHSCHILD and JORDAN (180) Nov. Zool. Tring **13**.

MacroGLOSSA stellatarum, experiments as to senses and intelligence, PLATEAU (141-180) Bruxelles Mem. Soc. ent. Belgique **12**; instinct, WILLEM (418-420) Bruxelles Ann. Soc. ent. Belgique **50**.—*M. hirundo samoanum* and *h. confluens* subspp. n. ROTHSCHILD and JORDAN (407) Nov. Zool. Tring **13**.

Marumba rothschildi sp. n. Batjan, HUWE (319) pl. vi f. 4 Berliner. ent. Zs. **50**.—*M. sperchius*, moulting, (Japanese); KOTAKE Konch. Sek. Gifu **10** 1906 (320-322).

Meganoton thielei sp. n. Sumatra, HUWE T.c. (316) pl. vi f. i.

Metospilus porcellus var. n. *colossus*, BANG-HAAS (129) D. ent. Zs. Iris **19**.

Pholus ritus fuscatus subsp. n., ROTHSCHILD and JORDAN (181) Nov. Zool. Tring **13**.

Polyptychus anochus, Sierra Leone, ROTHSCHILD and JORDAN (179) T.c., sp. n. —*P. poliades* Ashanti, ROTHSCHILD and JORDAN (406) T.c., sp. n.

Protambulyx xanthus Costa Rica, ROTHSCHILD and JORDAN (179) T.c., sp. n.

Protoparce fosteri Paraguay, ROTHSCHILD and JORDAN (178) Nov. Zool. Tring **13**, sp. n.

(*Rhagastis jordani* OBERTHÜR, Paris Bul. soc. ent. **1904**, (13-14), sp. n.)

Smerinthus ocellata, schnelle Entwicklung, HADER Ent. Zs. Guben **19** (203). —*S. populi* Zwitter, VOLAND Ent. Zs. **20** (118); gynandromorph, GRÖNBLOM Helsingfors Medd. Soc. Fauna Fl. Fenn. **13** (17-19) 1 fig.; *S. tiliac*, date d'éclosion de, DUPUY Paris Bul. soc. ent. **1906** (218-219).

Sphinx ligustri photographische Darstellungen der letzten Häutung, JARREN Kosmos Stuttgart **3** 1906 (347-350).

Temnora angulosa Congo, ROTHSCHILD and JORDAN (182) Nov. Zool. Tring **13**, sp. n.

(N-9720 j)

Typhosia gen. n. near *Lycosphinx* (406), *illustris* sp. n. Ashanti (407), ROTHSCHILD and JORDAN T.c.

Xylophanes fosteri Paraguay (182), *dolius* Ecuador, *cosmius* (183), *pyrrhus* (185), Peru, spp. n.; *X. chiron lucianus* (184) and *cubanus* (185) subspp. n.; ROTHSCHILD and JORDAN T.c.—*X. turbata* Edw. (325) pl. vi f. 2, *clara* Druce (326), HUWE Berliner ent. Zs. **50**.

(*Xylophanes nabuchodonozor* OBERTHÜR, T.c., sp. n.)

BOMBYCES.

S. l. including *Chalcosiidae*, *Psychidae*, *Hepialidae*, *Cossidae*, *Agaristidae* and various groups of more or less doubtful position. *Uraniidae*, *Epilemidae* vide GEOMETRIDAE; *Thyrididae* vide PYRALIDAE.

Acanthopsyche opacella, validity, HEYLAERTS (97) Bruxelles Ann. Soc. ent. Belgique **50**.

Actias selenae var. *artemis* Brem., metamorphosis, (Japanese); NAWA Konch. Sek. Gifu **10** 1906 (233-234). —*A. luna*, Zucht, EBNER Ent. Zs., Guben **20** (41-43).

Adoneta gemina sp. n. Texas, DYAR (200) Brooklyn Mus. Bull. **7**.

Aegocera leighi Durban, JORDAN (161) Nov. Zool. Tring **13**, sp. n.

Aethria langleyi, *eliza*, Venezuela, spp. n., KLAGES (543) Washington U. S. Nation. Mus. Proc. **29**.

Aghonia ovifera Peru, DOGNIN (181) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Agria tau L., FECHS Natw. Zs. Landw. Stuttgart **4** 1906 (153-158).

Albarracina korbi var. ?, BANG-HAAS (130) D. ent. Zs. Iris **19**.

Amastus rumina (= *Phaegoptera aconia* Dr. Biol. Centr.-Amer.) Costa Rica, *semifulvus* Peru, DRUCE (84) Ann. Mag. Nat. Hist. ser. **7** **18**, spp. n.

Andrhippuris caudaequina Karsch pl. x f. 12, JORDAN (761) Nov. Zool. Tring **13**.

Anodonta gigantea (408), *euribya* (409), Peru; DRUCE Ann. Mag. Nat. Hist. ser. **7** **17**, spp. n.

Anthela ekeikei = (*Collusa ekeikei*), BETHUNE-BAKER (191) Nov. Zool. Tring **13**.—*A. uniformis* Swinh. (as *Darala*) = (*niphomacula* Low.), TURNER (127) Adelaide S. Aust. Trans. R. Soc. **30**.

Antheraea cordifolia sp. n. Celebes, WEYMER D. ent. Zs. Iris. **19** (71).—*A. peruyi* Guer., metamorphosis (Japanese); NAWA Konch. Sek. Gifu **10** 1906 (106–108).—*A. yamamai*, metamorphosis (Japanese); NAWA T.c. (146–147).

Antichloris quartzi sp. n. Venezuela, KLAGES (548) Washington U. S. Nation. Mus. Proc. **29**.

Apateles seraphica sp. n. Texas, DYAR (197) Brooklyn Mus. Bull. **1**.—*A. striata, bicolorata*, Peru, DRUCE (93) Ann. Mag. Nat. Hist. ser. 7 **18**, spp. n.

Arachnis semiclara sp. n. N. America, STRETCH (124) pl. xii f. 18 New York J. ent. Soc. **14**.

Araeogyia phacopasta Darjiling, HAMPSON (492) pl. xxxvi f. 22 London Proc. Zool. Soc. 1906, sp. n.

Arbela orima Peru, DRUCE (414) Ann. Mag. Nat. Hist. ser. 7 **17**, sp. n.

Arctiidae and allies, North American; STRETCH New York J. Ent. Soc. **14** (117–125) pls. ii–xii (sep. enum.)—*Arctiidae*; STEPHAN Die Falter und Raupen unserer Bärenschmetterlinge. Natur u. Kultur München **3** (618–624).

Arctia caja var. n. *flava*, *A. hebe* var. n. *vassi*, A. AIGNER Rovart. L. Budapest **13** (69–75).—*A. caja*, Melanismus LAKATOS Rovart. L. **13** (58–60).—*A. aulica, caja, maculosa*, abb.; A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (528–530).—*A. maculosa* varr., SCHIMA (229) Wien Verh. Zool.-bot. Ges. 1906.

Argyrocodes auranticincta (544), *suapurensis* (545), Venezuela, spp. n., KLAGES Washington U. S. Nation. Mus. Proc. **29**.

Argyrolepida pamphila, ombiramus, JORDAN (161) Nov. Zool. Tring **13**.—*A. palaea* R. and J. pl. iii f. 15, JORDAN (761) T.c.

Aroa globula Sumatra, SWINHOE (544) Ann. Mag. Nat. Hist. ser. 7 **17**, sp. n.

Arsenura biundulata Brazil (85), *drucei* Panama, *thomsoni*, (86), *samba*

(87), Guiana, spp. n., SCHAUS Washington U. S. Nation. Mus. Proc. **30**.

Asota carsina Nias isld., SWINHOE (407) Ann. Mag. Nat. Hist. ser. 7 **18**, sp. n.

Asura rhodina R. and J. pl. iii f. 12, JORDAN (761) Nov. Zool. Tring **13**.

Athletes Karsch; REBEL D. ent. Zs. Iris **18** (268–275).—*A. semialba*, REBEL (97) op. cit. **19**.

Attacus cynthia, in Strassburg, SCHERDLIN Ent. Zs. Guben **20** (77–78, 83).—*A. orizaba*, Zucht, LAUBE Insektenbörse Leipzig **23** (164).

Automeris meridana (87), *romona*, *annulata, innoxia*, (88), Guiana, *pomifera* Peru, *jucundoides* Guiana, (89), *hamata* Venezuela, *moresea, parilis*, Guiana, (90), *orodina* Paraguay, *curvilinea* Peru, (91), spp. n., SCHAUS Washington U. S. Nation. Mus. Proc. **30**.—*A. umbrosa* sp. n. Argentinien, WEYMER D. ent. Zs. Iris **19** (74).

Automolis semibrunnea (81), *roseofasciata* (82), Peru; DRUCE Ann. Mag. Nat. Hist. **18**, spp. n.—*A. brunneireta, rubrireta*, Peru, DOGNIN (182) Bruxelles Ann. Soc. ent. Belgique **50**, spp. n.

Bantuana gen. n. *Striphnopterygidae*, *cregoei* sp. n. Transvaal, DISTANT (167) f. 29 Ins. transvaal.

Barsine syntypica Sumatra, SWINHOE (540) Ann. Mag. Nat. Hist. ser. 7 **17**, sp. n.

Birithama haplopis, delocrossa, Queensland, TURNER (139) Adelaide S. Aust. Trans. R. Soc. **30**, spp. n.

Bombyx inornata Peru, DRUCE (90) Ann. Mag. Nat. Hist. ser. 7 **18**, sp. n.—*B. quercus*, Zucht, HOFFMANN Ent. Zs. Guben **20** (52–53).—*B. pini*, in Norwegen, THORSEN Kristiania Tidssk. Skogbr. **14** (334–338).—*B. mori*, GAL (7^e Note), Nîmes Bul. soc. étud. sci. nat. **33** 1906 (87–97); heredity, TOYAMA Biol. Centralbl. **26** (321–334); Parthénogenèse artificielle des œufs, Recherches expérimentales, QUATAT, Mâcon Bul. soc. sci. nat. **2** 1906 (218–229).

Brachylia florita Peru, DRUCE (414) Ann. Mag. Nat. Hist. ser. 7 **17**, sp. n.

Brahmaea japonica, metamorphosis (Japanese), NAWA Konch. Sek. Gifu **10** 1906 (415–416).

Bunaea regalis Africa, REBEL (99) D. ent. Zs. Iris **19**, sp. n.—*B. macrothyris* Angola, ROTHSCILD (189) Nov. Zool. Tring **13**, sp. n.

Cacostatia umbraticola sp. n. Venezuela, KLAGES (551) Washington Nation. Mus. Proc. **29**.

Cadurea gen. n. *Lymantriidae*, *venata* sp. n. W. Africa, SWINHÖE (546) Ann. Mag. Nat. Hist. ser. 7 **17**.

Caligula japonica metamorphosis (Japanese); NAWA, Konch. Sek. **10** 1906 (63-64).

Callidrepana discipunctata, *superba*, Brit. New Guinea, WARREN (61) Nov. Zool. Tring **13**, spp. n.

Callimorpha quadripunctaria ab., A. AIGNER Ann. Hist.-Nat. Hung. **4** (530).

Calonotos plumulatus sp. n., Venezuela, KLAGES (541) Washington U. S. Nation. Mus. Proc. **29**.

Calophasia casta var. n. *biroi* Ungarn, A. AIGNER ROVART. L. **13** (69-75).

Caprimima aenea R. & J. pl. iii f. 11, *metallica* f. 17, JORDAN (761) Nov. Zool. Tring **13**.

Carama bella, *modificata*, (87), *fusca*, *distincta*, *rufidorsata*, (88), *nox*, *nigrovenosa*, Peru, *parmata* Brazil, (89); DRUCE Ann. Mag. Nat. Hist. ser. 7 **18**, spp. n.

Carthara bifasciata, Peru, DRUCE (91) T.c., sp. n.—*C. roseilinea* Brazil (95), *umbrata* Chiriqui (96), spp. n., SCHAUS Washington U. S. Nation. Mus. Proc. **30**.

Caviria vestalis sp. n. Guiana, SCHAUS (93) T.c.

Ceramidia caurensis sp. n. Venezuela, KLAGES (548) Washington U. S. Nation. Mus. Proc. **29**.

Chaleosia; varr., sexes, (174-178), *costimacula batakkorum* new form (178), DOHRN Stettiner ent. Ztg. **67**.

Chrysocale quadruplex Colombia, DOGNIN (180) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Chrysopsyche lamani Congo (9) pl. i f. 4, with larva (10), AURIVILLIUS Uppsala Arkiv. Zool. **3** No. 1, sp. n.

Cithene hoderi Peru, DRUCE (87) Ann. Mag. Nat. Hist. ser. 7 **18**, sp. n.

Clania raulogeri Tonkin, *joannisii* Manila, HEYLAERTS. (101) Bruxelles Ann. Soc. ent. Belgique 1906, spp. n.

Cochlidion creticum Crete, REBEL (236) Wien Verh. zool.-bot. Ges. 1906, sp. n.

Collusa ekeikei cf. *Anthela*.

Copaxa rufinans Mexico, *marona*, (92), *lineata* (93), Guiana, spp. n., SCHAUS Washington U. S. Nation. Mus. Proc. **30**.

Copidryas cosyra early stages, KUNZE (133) New York J. ent. Soc. **14**.

Cosmosoma rubrigutta sp. n. Arizona, SKINNER (96) Ent. News **17**.—*C. hamptoni* sp. n. Venezuela, KLAGES (534) Washington U. S. Nation. Mus. Proc. **29**.—*C. achemon* var. n. *bolivarensis*, KLAGES (536) T.c.—*C. pytna* Trinidad, *villia* Peru, DRUCE (78) Ann. Mag. Nat. Hist. **18**, spp. n.

Cossus cossus, Entwicklung, FRINGS Ent. Zs. Guben **20** (53).

Costria ockendeni Peru, DRUCE (93) Ann. Mag. Nat. Hist. **18**, sp. n.

Cyclosia; spp. and synonymy, DOHRN (168-170) Stettiner ent. Ztg. **67**.

Darala uniformis cf. *Anthela*.

Dasychira pulchra (544), *postalba*, *rocana*, Coomasie, *glovera* Uganda, (545); SWINHÖE Ann. Mag. Nat. Hist. **17**, spp. n.—*D. anaha* Java and Sumatra, SWINHÖE (406) Op. cit. **18**, sp. n.

Dasylophia riparia Peru, DRUCE (409) Ann. Mag. Nat. Hist. **17**, sp. n.

Datana integerrima var. n. *cochise*, DYAR (186) Brooklyn N.Y. Mus. Bull. **1**.

Deilemera fatua sp. n. Ost-Afrika, HEYN (213) Ent. Zs. Guben **19**.—*D. marcida* Angola, SWINHÖE (548) Ann. Mag. Nat. Hist. **17**, sp. n.—*D. niasana* Nias isld., SWINHÖE (406) Op. cit. **18**, sp. n.—*D. adversata* SCHALL. = (*plagiifera* Walk.), PROUT (36) Ent. Rec. 1906.

Demas coryli ab. n. *melanotica*, HAVERKAMPF Bruxelles Ann. Soc. ent. Belgique **50** (158).

Diacrisia (Spilosoma) caeria sp. n. Kuku-Noor, PÜNGELER D. ent. Zs. Iris **19** (79).

Dipoena peculiaris Peru, DRUCE (86) Ann. Mag. Nat. Hist. **18**, sp. n.

Doa ? cubana sp. n. Matanzas, SCHAUS (94) Washington U. S. Nation. Mus. Proc. **30**.

Dognina botis, *carastia*, Peru, DRUCE (419) Ann. Mag. Nat. Hist. **17**, spp. n.

Drymonia trimacula var. *dodonaea* ab., A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (518).

Dysauxes florida Ile Maurice, JOANNIS (169) pl. ix f. 1 Paris Ann. Soc. ent. **75**, sp. n.—*D. punctata* var. n. *separata* pl. v f. 15, BANG-HAAS (143) D. ent. Zs. Iris **19**.

Dysdaemonia fosteri Paraguay, ROTH-SCHILD (189) Nov. Zool. Tring, **13**, sp. n.

Dyspessa kabyalaria Tunis, pl. v f. 10, BANG-HAAS (143) D. ent. Zs. Iris **19**, sp. n.—*D. argaensis* Asia minor, REBEL (205), Wien Ann. Nat. Hist. Hofmus. **20**, sp. n.—*D. ulula* var. = (*pallidata* Stdgr.), REBEL (299) Berliner ent. Zs. **50**.

Echedorus fasciatus Peru, DRUCE (90) Ann. Mag. Nat. Hist. **18**, sp. n.

Eloria cubana Cuba, *aroensis* Venezuela, *serena* Guiana, spp. n., SCHAUS (94) Washington U. S. Nation. Mus. Proc. **30**.

Elysius larinia, terra, Peru, DRUCE (82) Ann. Mag. Nat. Hist. **18**, spp. n.

Endrosa irrorella var. *freyeri*, REBEL (5) Wien Verh. zool. bot. Ges. 1906.—*E. aurita* var. *ramosa* ab., A. AIGNER Ann. Hist.-Nat. Hung. **4** (530).

Epignopteryx pulla var. *montana* valid, HEYLAERTS (99) Bruxelles Ann. Soc. ent. Belgique **50**.

Epipomponia gen. n. for *Epipyrops navai* Dyar, DYAR (111) New York J. ent. Soc. **14**.

Epipyrops doddi Queensland, ROTH-SCHILD (162) Nov. Zool. Tring **13**, sp. n.; with larval habits by DODD T.c. (162–169).

Epyrgis H.-Sch. = (*Callamesia* Butl.) (170), *E. trepsichrois* Butl. (171), DOHRN Stettiner ent. Ztg. **67**.

Erasmia = (*Amesia* Westw.) (172), *lugens* Sumatra, *javana* Java, new forms, DOHRN (173) T.c.

Euceron ockendeni, *antonia*, *ignota*, Peru, *pallada* Parana, (80), *sadana* Peru (81); DRUCE Ann. Mag. Nat. Hist. **18**, spp. n.

Euchromia paleivana Pelew islds., SWINHOE (403) Ann. Mag. Nat. Hist. **18**, sp. n.

Euclea dolliana, cf. *Monoleuca spadiceis*.

Eulimacodes tersula Peru, DRUCE (90) Ann. Mag. Nat. Hist. **18**, sp. n.

Eumenogaster notabilis var. n. *caurensis*, KLAGES (516) Washington U. S. Nation. Mus. Proc. **29**.

Euprepia pudica Esp. ab. *flaveola* n., SCHULTZ Ent. Zs. Guben **20** 1906 (26).

Euproctis monophyes W. Africa, *cincta* Borneo, *icelomorpha*, (511), *hemibathes* Sumatra, *nessa* Uganda, *ridleyi*, (542), *humida* (543), Sumatra; SWINHOE Afr. Mag. Nat. Hist. **17**, spp. n.—*E. epidela*, *epaxia*, Queensland, TURNER (125) Adelaide S. Aust. Trans. R. Soc. **30**, spp. n.—*E. chrysorrhoea* ab. n. *nigrosignata*, BANDERMANN Ent. Zs. Guben **20** (97–98); natural history, FELT Albany N.Y. Bull. St. Mus. 103 (14–18) plates ii and viii–x.

Eupterote pulchra Nilgiri hills, SWINHOE (404) Ann. Mag. Nat. Hist. **18**, sp. n.

Eurota elegans Paraguay, DRUCE (78) Ann. Mag. Nat. Hist. **18**, sp. n.

Eutricha oweni Arizona, BARNES (62) Canad. Ent. **38**, sp. n.

Fumea glaphyrella sp. n. Morea, REBEL (297) Berliner ent. Zs. **50**.

Gastroplakacis maputuana sp. n. Westafrika, WICHGRAF Insektenbörse **23** (82).

Gloveria valens Arizona, DYAR (185) Brooklyn N.Y. Mus. Bull. **1**, sp. n.

Gonopteryx n. *Thaumatopoea* Nomenclatur, STICHEL Insektenbörse Leipzig **23** 1906 (100).

Gynaotocera reducta, DOHRN (172) Stettiner ent. Ztg. **67**.

Halisidota mincosa Peru, DRUCE (85) Ann. Mag. Nat. Hist. **18**, sp. n.—*Halisidota agramma* Peru, DOGNIN (183) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Haploa confusa, *leecontei*, varr., breeding experiments; FOSTER Psyche **13** (29–32) pls. ii and iii.

Helictinidia bimaculata Brazil, DRUCE (85) Ann. Mag. Nat. Hist. **18**, sp. n.

Hemihyalea hades Peru, DRUCE (408) Op. cit. **17**, sp. n.

Heptalus virescens, not *Porina dinodes*, probably is host of the *Cordyceps* fungus; PHILPOTT (175) Entomologist 1906.

Heterocampa ruficornis Arizona, DYAR (185) Brooklyn N.Y. Mus. Bull. **1**, sp. n.—*H. multilineata* (409), *elongata*, *striata*, (410), Peru; DRUCE Ann. Mag. Nat. Hist. **17**, spp. n.—*H. exsanguis* var. n., DYAR (197) Brooklyn Mus. Bull. **1**.

Heteropan fuseescens Sumatra and Borneo, DOHRN Stettiner ent. Ztg. **67** (182), sp. n.

Histia catobia, DOHRN (162) Stettiner ent. Ztg. **67**.

Histiaca monticola sp. n. Venezuela, KLAGES (538) Washington U. S. Nation. Mus. Proc. **29**.

Holocerus difficilis Afghanistan, pl. v f. 12, BANG-HAAS (143) D. ent. Zs. Iris **19**, sp. n.

Homoeocera trizona Venezuela, DOGNIN (178) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Hyaloceresa chapmani sp. n. Venezuela, KLAGES (552) Washington U. S. Nation. Mus. Proc. **29**.

Hyalospectra gen. n. *Drepanulidae*, *grisea* sp. n. New Guinea, WARREN (62) Nov. Zool. Tring **13**.

Hydrias onoba Peru, DRUCE (91) Ann. Mag. Nat. Hist. **18**, sp. n.

Hylesia terranea sp. n. Brazil, SCHAUS (93) Washington U. S. Nation. Mus. Proc. **30**.

Hyphantria cunea, habits, BERGER Washington D.C. Bull. U. S. Dept. Agric. Bur. Ent. No. **60** (41–51); food in Ohio and habits, BERGER Ohio Nat. **6** (453–456).

Hypogymna morio var. n. *natlyi* ♂ Ungarn, A. AIGNER Rovart. L. **13** (69–75).

Hypoplectis adpersaria life-history, LAMBILLION Bruxelles Mem. Soc. ent. Belgique **12** (99–104).

Hypoprepia dollii var. n., DYAR (194) Brooklyn Mus. Bull. **1**.

Ichoria semiopaea Brazil, DOGNIN (179) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Idalus marpessa, *syrissa*, *rhyssa*, (407), *manora* (408), Peru, DRUCE Ann. Mag. Nat. Hist. **17**, spp. n.—*I. flavibrunnea* Peru, DOGNIN (181) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Imaus ochrias Queensland, TURNER (126) Adelaide S. Aust. Trans. R. Soc. **30**, sp. n.

Isbarta, the spp. and forms, DOHRN (164–168) Stettiner. ent. Ztg. **67**.

Ischnocampa farinosa Venezuela, DRUCE (83) Ann. Mag. Nat. Hist. **18**, sp. n.

Ixylasia kelleri sp. n. Venezuela, KLAGES (550) Washington U. S. Nation. Mus. Proc. **29**.

Janassa lignicolor var. n. *delicata*, DYAR (186) Brooklyn N.Y. Mus. Bull. **1**.

Laelia henippa Machakos, SWINHOE (543) Ann. Mag. Nat. Hist. **17**, sp. n.

Lasioecampa pini in Schweden 1903 and 1904, MEWES Zs. Forstw. Berlin **38** (39–45).—*L. quereus* ab., A. AIGNER Ann. Hist.-Nat. Hung. **4** (520).—*L. josua* var. *vaucheri* (23) pl. ii figs. 4 and 5, BLACHIER Paris Ann. Soc. ent. **75**.

Laureon albiplaga sp. n. Brazil, SCHAUS (96) Washington U. S. Nation. Mus. Proc. **30**.

Lebeda peruviana Peru, DRUCE (413) Ann. Mag. Nat. Hist. **17**, sp. n.

Leiocampa dictaeoides, retarded emergence, BANKES (41) Ent. Mag. London (42).

Lemonia dumi, DECKER Ent. Zs. Guben **20** (212–214); Ueberliegen der Puppen, HOFFMANN Ent. Zs. Guben **20** 1905 (53).—Nachtrag dazu v. A. Harsch T.c. (89–90); F. Hoffmann T.c. 1907 (257); Ei, DECKER Ent. Zs., Guben **20** (220); Zucht, BRETSCHNEIDER Ent. Zs. Guben **19** 1906 (197–199).—Weiteres darüber v. ARTHUR FRITZSCHE op. cit. **20** 1906 (3–4), u. F. HOFFMANN, T.c. (28–29); and KRÄHE Ent. Zs. Guben **19** (206–207).

Leucoma costalis Uganda SWINHOE (541) Ann. Mag. Nat. Hist. **17**, sp. n.

Lecruana gen. n. *Zygacnidae* (343), *iridescens* sp. n. Fiji (344), BETHUNE-BAKER Ann. Mag. Nat. Hist. **18**.

Lymantria oberthuri Tunisie, LUCAS (26) pl. iii f. 6 Paris Ann. Soc. ent. **75**, sp. n.—*L. postfusa* Ceylon (546), *singapura* Singapore (547); SWINHOE Ann. Mag. Nat. Hist. **17**, spp. n.—*L. dispar* ab., A. AIGNER Ann. Hist.-Nat. Hung. **4** (519).

Macrocneme affinis (539), *caurensis* (540), spp. n., Venezuela, KLAGES U. S.

Nation. Mus. Proc. **29**.—*M. coeruleseens* Venezuela, DOGNIN (180) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Macrothylacia rubi, Behandlung der Raupen vom., DECKER Ent. Zs. Guben **20**.

Macrurocampa marthesia var. n. *miranda*, DYAR (185) Brooklyn N.Y. Mus. Bull. **1**.

Macnas areseopa Queensland, TURNER (118) Adelaide S. Aust. Trans. R. Soc. **30**, sp. n.

Malacosoma neustria var. n. *unicolor* Ungarn., A. AIGNER Rovort. L. **13** (69-75).—*M. ab.*, A. AIGNER Ann. Hist.-Nat. Hung. **4** (519-520).—*M. inducta* var. n. DYAR (195) Brooklyn Mus. Bull. **1**.—*M. castrensis*, hermaphrodite; AUEL Zs. wiss. Insektenbiol. **2** (354-356).

Mantruda gen. n. *Lymantriidae* (94), *erratica* sp. n. Venezuela (95), SCHAUS Washington U. S. Nation. Mus. Proc. **39**.

Megalopyge pedacia Peru, DRUCE (414) Ann. Mag. Nat. Hist. **17**, sp. n.

Mesothen myisia, *flavicostata*, Peru; DRUCE, (77) Ann. Mag. Nat. Hist. **18**, spp. n.—*M. aurantiaca* Peru, DOGNIN (178) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Methysia hilda Peru, DRUCE (79) Ann. Mag. Nat. Hist. **18**, sp. n.

Microdota gen. n. *Aretianae*, *lenistriata* sp. n. Paraguay, DOGNIN (183) Bruxelles Ann. Soc. ent. Belgique **50**.

Mitochrista miniata aberratio *flava*, MEYER Insektenborse **23** (88).

Mimagyrt pulchella sp. n. Venezuela, KLAGES (534) Washington Nation. Mus. Proc. **29**.

Miresa acallis Sumatra, SWINHÖE (548) Ann. Mag. Nat. Hist. **17**, sp. n.

Monoleuca spadiceis sp. n. Arizona, GROSSBECK (289) Ent. News **17**; but T.c. p. 392, is *Euclea dolliana*.

Napata venezuelensis sp. n. Venezuela, KLAGES (549) Washington U. S. Nation. Mus. Proc. **29**.—*N. superba* Peru, DRUCE (79) Ann. Mag. Nat. Hist. **18**, sp. n.

Natada amicta W. Africa, SWINHÖE (548) Ann. Mag. Nat. Hist. **17**, sp. n.

Neonerita haemasticta Peru, DOGNIN (181) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Neoscaptia albata R. and J. pl. iii f. 8, *aequalis* f. 7, JORDAN (761) Nov. Zool. Tring **13**.

Notodonta ziczac-dromedarius, hybrid, PIERCE (122-124) fig. Entomologist 1906.

Nudaurelia belina-nkerekewensis (97), *conradsi* Victoria Nyanza sp. n.; REBEL (98) D. ent. Zs. Iris **19**.—*N. ringleri* sp. n. West-afrika, WICHGRAF Insektenbörse **23** (83).—*N. dione-cenus* subsp. n., REBEL D. ent. Zs. Iris **18**, (273).

Ocha hedila, *meroma*, *patara*, Peru, DRUCE (92) Ann. Mag. Nat. Hist. **18**, spp. n.

Onceropyga gen. n. *Zygaenidae*, *anelia* sp. n. Queensland, TURNER (137) Adelaide S. Aust. Trans. R. Soc. **30**, sp. n.

Opharus conspicuus, *domingona*, *cornelia*, (83), *sestia* (84), Peru; DRUCE Ann. Mag. Nat. Hist. ser. 7 **18**, spp. n.

Oreopsyche angustella bicolorella = (*Pyropsyche moncaunella* Chapm.), HEYLAERTS Bruxelles Ann. Soc. ent. Belgique 1906 (97-100).

Oreta patiens New Guinea, WARREN (62) Nov. Zool. Tring **13**, sp. n.

Orgyia nebulosa Walk., ♀, SWINHÖE (404) Ann. Mag. Nat. Hist. **18**.

Ormiscodes? *nigrolinea* Peru, DRUCE (413) Ann. Mag. Nat. Hist. **17**, sp. n.

Oxytenis nigropuncta (411), *naemia*, *leda*, (412), Peru, DRUCE T.c., spp. n.

Pachymeta gen. n. *Lasiocampidae*, for *contraria* Walk., AURIVILLIUS (8) Uppsala Arkiv. Zool. **3** No. 1.

Pantana droa Hong Kong, SWINHÖE (543) Ann. Mag. Nat. Hist. **17**, sp. n.

Parajana gen. n. *Striphnopterygidae* (6), *lamani* sp. n. Congo (7), AURIVILLIUS Uppsala Arkiv. Zool. **3** No. 1.

Paramelisa gen. n. *Aretiidae*, *lophura* sp. n. Congo pl. i f. 2, AURIVILLIUS (13) T.c.

Parasa chapmani larva, AURIVILLIUS (11) f. 6 T.c.

Parasa chloris var. n. *huachuca*, DYAR (186) Brooklyn Mus. Bull. **1**.

Parasa loxogramma to *Momopola*, TURNER (138) Adelaide S. Aust. Trans. R. Soc. **30**.

Parasemia plantaginis variation, Id. T.c. (239-241), and (616); abb. n. *flavi-*

pennis and *borussia*, SCHAWERDA (230, 231) Wien Verh. zool.-bot. Ges. 1906; *ab. hospita* A. AIGNER Ann. Hist.-Nat. Hung. **4** (528).

Pendria **gen. n.** *Lymantriidae* type *Redoa rinaria* Moore, SWINHOF (540) Ann. Mag. Nat. Hist. **17**.

Pendria rotundata Nias isld., SWINHOF (405) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Perisomena eaeigena, VOGT Ent. Zs. Guben **20** (148); WÜNSCHER Ent. Jahrb. Leipzig **15** 1906 (112-113).

Perola antelia Peru, DRUCE (90) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Phassus eldorado **sp. n.** Süd-Amerika, PFITZNER D. ent. Zs. Iris Berlin **18** (276).

Phecada joanna **sp. n.** Guiana, SCHAUS (95) Washington U.S. Nation. Mus. Proc. **30**.

Pheia lateralis **sp. n.** Venezuela, KLAGES (533) Washington U.S. Nation. Mus. Proc. **29**.—*P. flavicincta* Tucuman, DOGNIN (178) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**

Philoros nora Peru, DRUCE (81) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Philotherma dentata Congo, AURIVILLIUS (8) Uppsala Arkiv. Zool. **3** No. 1, **sp. n.**

Phricodia baroma **sp. n.** hab?, SCHAUS (92) Washington U.S. Nation. Mus. Proc. **30**.

Pitane erora Peru, DRUCE (86) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Poliopastea verdivittata **sp. n.**, var. *n. fenestrata*, Venezuela KLAGES (541) Washington U. S. Nation. Mus. Proc. **29**.

Pollanissus; valid, table of allies, TURNER (137) Adelaide S. Aust. Trans. R. Soc. **30**.

Pompelon perakana Perak, SWINHOF (407) Ann. Mag. Nat. Hist. **18**, **sp. n.**.—*P. modesta* Sumatra, DOHRN (163) Stettiner ent. Ztg. **67**, **sp. n.**

Porina dinodes cf. *Hepialus vireseens*.

Porthesia aeatharta Queensland, TURNER (124) Adelaide S. Aust. Trans. R. Soc. **30**, **sp. n.**.—*P. auriflua* larval hibernation, SMITS Feuille jeunes natural. **36** (135), and FRIONNET T.c. p. 152.—

P. similis ab., A. AIGNER Ann. Hist.-Nat. **4** (518).

Porhetria dispar, natural history, FELT Albany N.Y. Bull. St. Mus. **103** (7-14) pls. i and iii-vii.

Proerimima viridis Brazil, DRUCE (86) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Pseudaclytia major Peru, DRUCE (79) T.c., **sp. n.**

Pseudaphelia simplex Kongo, REBEL (224) Wien Verh. zool.-bot. Ges. 1906, **sp. n.**

Pseudargyrodes **gen. n.** *Syntomidae* (546), *caurensis* (547) **sp. n.** Venezuela, KLAGES U. S. Nation. Mus. Proc. **29**.

Pseudonyetemera fieta sexes, DOHRN (180) Stettiner ent. Ztg. **67**.

Pseudosphex aurifera (531), *caurensis* (532), Venezuela, **spp. n.**, KLAGES Washington U. S. Nation. Mus. Proc. **29**.

Pseudothymara **gen. n.** for *Pedoptila staudingeri* Rog., REBEL (380) Wien Verh. zool.-bot. Ges. 1906.

Ptilophora plumigera ab., AIGNER Ann. Hist.-Nat. Hung. **4** (518).

Ptychoglene ripena Bolivia, DRUCE (86) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Ramesa strigata Congo, AURIVILLIUS (7) Uppsala Arkiv. Zool. **3** No. 1, **sp. n.**

Ravigia arcifera **sp. n.** Texas, DYAR (200) Brooklyn Mus. Bull. **1**.

Rebelia plumella H.-S., male structures, MEIXNER Ent. Jahrb. **16** (125-128) 1 Taf.—*R. pectinella* valid, HEYLAERTS (99) Bruxelles Ann. Soc. ent. Belgique **50**.

Rhodia fugax, metamorphosis (Japanese) NAWA Konch. Sek. Gifu **10** 1906 (277-279).

Rhodinia fugax, Zucht, EBNER Insektenbörse **23** (7-8, 10-11).

Rhynchopyga semirufa Peru, DRUCE (78) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Rhypparia purpurata, ab., AIGNER Ann. Hist.-Nat. Hung. **4** (528).

Rhypparoides metelkana, Biologie (101), CERVA Rovart. L. **13**.

Robinsonia morula Peru, DRUCE (81) Ann. Mag. Nat. Hist. **18**, **sp. n.**.—*R. praphoea* Peru, DOGNIN (181) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**

Ruscino arida **sp. n.** Arizona, SKINNER (95) Ent. News **17**.

Samia cecropia, natural history in Canada, GIBSON (149-152), MAUGHAN (189), Ottawa Natural. **20**; Number of eggs, DAVIS Ent. News **17** (368-369).

Saturnia ockendeni Peru, DRUCE (411) Ann. Mag. Nat. Hist. **17**, **sp. n.**—*S. pavonia* L., Zwitter, UFFELN D. ent. Zs. Iris Berlin **18** (278-279).—*S. pyri*, Einbürgerung in Lothringen, GOLTZ Ent. Zs. Guben **20** 1906 (83-84).—Nachtrag dazu v. PREHN, T.c. (101); v. P. DEMUTH (110); v. ROBITZSCH (118); v. Frhr. v. d. GOLTZ, T.c. 1907 (263); *pyri* var. *abafii* ab., A. AIGNER Ann. Hist.-Nat. Hung. **4** (520); *S. pyri*, in Luxemburg, MÜLLENBERGER Ent. Zs. Guben **20** (111).

Saurita diaphana Peru (179), *lasiophlebia* Guiana (180), DOGNIN Bruxelles Ann. Soc. ent. Belgique **50**, **spp. n.**—*S. anthracina* (537), *venezuelensis*, *thoracica*, (538), **spp. n.**, KLAGES Washington U. S. Nation. Mus. Proc. **29**.

Schizura errucata **sp. n.** Texas, DYAR (197) Brooklyn Mus. Bull. **1**.

Sciathos roscipuncta Peru, DRUCE (408) Ann. Mag. Nat. Hist. **17**, **sp. n.**—*S. metaleuca*, *semirufa*, Peru, DRUCE (89) Op. cit. **18**, **spp. n.**

Seiopsyche auranticauda **sp. n.** Venezuela, KLAGES (549) Washington U. S. Nation. Mus. Proc. **29**.

Selenephra lunigera und ab. *lobulina*, Zucht, HILLER Ent. Zs. Guben **19** (200).

Semiopitila hilaris Deutsch-Ostafrika, REBEL (378) Wien Verh. zool.-bot. Ges. 1906, **sp. n.**

Semyra mariae **sp. n.** French Guiana, DYAR (30) New York J. Ent. Soc. **14**.

Sphecosoma gracilis **sp. n.** Venezuela, KLAGES (532) Washington U. S. Nation. Mus. Proc. **29**.

Spidia dirisa Congo, AURIVILLIUS (10) pl. i f. 3, Uppsala Arkiv. Zool. **3** No. 1, **sp. n.**

Spilosoma mendica ab., A. AIGNER Ann. Hist.-Nat. Hung. **4** (528).

Sphingicampa heiligbrodtii early stages, KUNZE (131) New York J. ent. Soc. **14**.

Stichobasis helicinoides, REBEL (297) Berliner ent. Zs. **50**.

Syntomeida befana **sp. n.** Arizona SKINNER (379) Ent. News **17**.

Syntomis libanotica Lebanon, BANG-HAAS (142) D. ent. Zs. Iris **19**, **sp. n.**

Talis icelomorpha W. Australia, TURNER (90) Brisbane Proc. R. Soc. Queensland **19**, **sp. n.**

Taragama aegyptiaca Port Said, BANG-HAAS (130) D. ent. Zs. Iris **19**, **sp. n.**—*T. butiti* Africa, BETHUNE-BAKER (344) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Telea polyphemus, cocoons, KUNZE Ent. News **17** (177-179); FORBES Ent. News **17** (225).

Thyractia frigida Peru, DRUCE (406) Ann. Mag. Nat. Hist. **17**, **sp. n.**

Thosea cinereomarginata **sp. n.** Philippines, BANKS Philippine J. Sci. **1** (229); early stages (216) pl. v figs. 1, 2, BANKS T.c.

Tolyte mintia **sp. n.** Florida, DYAR (195) Brooklyn Mus. Inst. Arts Sci. Bull. **1**.—*T. nigrescens* Peru, DRUCE (91) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Triehura monstrabilis **sp. n.** Venezuela, KLAGES (542) Washington U. S. Nation. Mus. Proc. **29**.

Triodia remota **sp. n.** Süd-Amerika, PFITZNER D. ent. Zs. Iris Berlin **18** (276).

Tuina cellona Peru, DRUCE (87) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Turaptiana tessellata Peru, DRUCE (85) T.c., **sp. n.**

Xanthospilopteryx zeodila **sp. n.** Kongostaat (127), NIEPALT Insektenbörse **23**; pl. x f. 7, JORDAN (761) Nov. Zool. Tring **13**.

Xyleutis eremonoma Queensland, TURNER (139) Adelaide S. Aust. Trans. R. Soc. **30**, **sp. n.**

Zeuzera ramuscula **sp. n.** Texas, DYAR (200) Brooklyn Mus. Bull. **1**.

Zyguena; DZIURZYNSKI Ent. Zs. Guben **19** (184-186); neue oder wenig bekannte Zygaenenformen, BURGEFF Ent. Zs. Guben **20** (153-154, 161-163).—*Z. carniolica* var. n. *klapaleki*, JOUKL Ent. Zs. Guben **20** 1906 (18-20); var. n. *rangeli* Ungarn; A. AIGNER Rovart. L. **13** (69-75).—*Z. carniolica* ab. *jurassica* (21) pl. ii f. 1, *Z. jucunda pygmaeoides* ab. nov. (22), BLACHIER Paris Ann. soc. ent. **75**.—*Z. ephialtes acacus* results of

breeding, PICSZEZEK (12-14) Wien Verh. Zool. bot. Ges. 1906.

The following entries of Bombyces have appeared previously in the Zoological Record.

(*Adelocephala crispola isara* DOGNIN, Naturaliste **27** 1905 (215) spp. n.)

(*Arpyia vinula* BALDUCCI, Firenze, Boll. Soc. Entom., **36**, (117-122, con 1 tav.).)

(Gal, Jules. Pont du *Bombyx mori* (2^e Note). Nîmes, Bul. soc. étude. sci. nat., **32**, 1905, (68-71).—KELLOGG, *Bombyx mori*, sexual characters, J. Exp. Zool. **1** 1904 (601-605).)

(*Callimorpha*; variation, COVERDALE, Ent. News **16** (154).)

(*Dysauxes punctata* ab. (et var.?) *ragusaria*. ZICKERT, Fritz. Naturalista sicil. Palermo **17** 1904 (97-98).)

(*Lasioampa Josua* var. n. *raucherii* BLACHIER, Paris, Bul. soc. ent., **1905**.)

(*Liparis chrysorrhea* HOULBERT, Rennes, Bul. soc. sci. méd., **14**, 1905, (113-120, av. fig.).)

(*Lycomorphodes calopteridion* Brasil, JOANNIS, Paris Bul. soc. ent. **1904**, (289-291), sp. n.)

(*Syntomis xanthura* (843), *choneutospila* (844), *chromatica* (845), *paradelpha* (846), *prosomoea* (850), spp. n., Australia, *heptespila melitospila dyschlaena* TURNER, Sydney N.S.W. Proc. Linn. Soc. **29**.)

(*S. magistri* nom mut (= *Hydruta aperta* Meyrick not *H.a.p.* Wlk), TURNER, **29** (846) T.c.)

(*Themerastis amalopa*, Mulgrave River Queensland, TURNER Sydney N.S.W. Proc. Linn. Soc. **29** (833), sp. n.)

(*Zygaena aurata* Maroc, BLACHIER, Paris, Bul. soc. ent., **1905**, sp. n.)

(*Zygaena jucunda segregata, carniolica jurassica* abb. n. BLACHIER, Paris Bul. soc. ent. **1905** (52-54).)

NOCTUIDAE.

Cucullianae; descriptive catalogue of; HAMPSON Cat. Lep. phal. **6**. No attempt is made below to deal with the large number of changes of generic position made in this work.

Acanthodica pamela sp. n. Brazil, SCHAUS (105) Washington U. S. Nation. Mus. Proc. **30**.

Acantholipes bilineata, ochreovenata, (264), *dinawa, aroa, hampsoni purpurascens, aroana*, (265), *alboserata, nigriplaga*, (266), New Guinea, BETHUNE-BAKER Nov. Zool. Tring **13**, spp. n.—*A. coniochroa* Queensland, TURNER (121) Adelaide S. Aust. Trans. R. Soc. **30**, sp. n.

Acontia aroa New Guinea, BETHUNE-BAKER (210) Nov. Zool. Tring **13**, sp. n.

Acosmetia caliginosa, habits, SCREIBER (55-57) Regensburg Ber. natw. Ver. **9**.

Acronyctinae: of Chemnitz, life-histories, FABST Ent. Jahrb. **15** (84-93).

Acronycta crenulata, ekeikei, dinawa, New Guinea, BETHUNE-BAKER (198) Nov. Zool. Tring **13**, spp. n.—*A. leporina*, variation, GILLMER, Insektenbörse Leipzig **23** (118-120, 122-124); COCHRANE (100) Ent. Rec. 1906; *melanie* var., WILLSDON (97) with fig. Entomologist 1906; var. *melanocephala*, MANSBRIDGE (19 and 115) Entomologist London **29**; varietal synonymy, PROUT (146, 147) Ent. Rec. 1906 and TUTT T.c. (147, 148).—*A. psi, tridens*, distinctions, CHAPMAN (34-37) 2 plates; London Trans. City Nat. Hist. Soc. 1906.—*A. schlumbergeri* sp. n. Schlesien, SCHULTZ (73) Ent. Zs. Guben **20**.

Adrapsa chartalis Sumatra, SWINHOE (550) Ann. Mag. Nat. Hist. **17**, sp. n.

Adrocampa atomosa sp. n. Brazil, SCHAUS (124) Washington U. S. Nation. Mus. Proc. **30**.

Aedia melas, costiplaga, New Guinea, BETHUNE-BAKER (254) Nov. Zool. Tring **13**, spp. n.

Agriopis pryeri (321) pl. civ. f. 4, HAMPSON Cat. Lep. phal. **6**.

Agrotis sturanyi Crete, REBEL (232) Wien Verh. zool.-bot. Ges. 1906, sp. n.—*A. spania* Tien-schan (84), *semna* Aschabad, *neara* Merw, (85), *orplina* Turkestan (86), spp. n., PÜNGELER D. ent. Zs. Iris **19**.—*A. tamerlana* pl. v f. 4, *denticulosa* var. n. *crimaea*, (131); *sanct-moritzii* Switzerland (132) pl. v f. 17, *oranaria* Algeria (133) f. 9, spp. n. BANG-HAAS D. ent. Zs. Iris **19**.—*A. reda* sp. n. Nelson (511) pl. xlv. f. 3, HOWES Wellington Trans. N. Zeal. Inst **38**.—

A. canariensis arefacta var. n., REBEL (27) Wien Ann. Nat. Hist. Hofmus. **21**.—*A. evermanni* in Finland, nec *A. collina*, POPPIUS (12) Medd. Soc. Fauna Fl. Fenn. **32**.—*A. pronuba* ab., A. AIGNER, Ann. Hist. Nat. Hung. **4** (520).—*A. ashworthii* var., MANSBRIDGE (46-49) Southport Rep. Lancash. Chesh. ent. Soc. **30**.—*A. forcipula* Hb. var. n. *helladica*, REBEL Berliner ent. Zs. **50** (294).—*A. Raupe*, SARTORIUS Ent. Zs. Guben **20** (93-94).—*A. interjecta*, Ei und Raupe, GILLMER Ent. Zs. Guben **19** (200-202).—*A. constantii*, natural history, CHRÉTIEN (262) Naturaliste 1906.—*A. ypsilon*, Rott. Egypt, WILLCOCKS Cairo Yrbk. Khed. Agric. Soc. **1905** (93-103) pl. iv.

(*Agrotis* (*Episilia*) *faeeta*: Entwicklungsgeschichte. PÜNGELER, Rudolf. Naturalista sicil. Palermo **17** N. 4 1904 (65-67).)

Alibama kebea New Guinea, BETHUNE-BAKER (221) Nov. Zool. Tring **13**, sp. n.

Amathes phacosoma Punjab (488) pl. cvii f. 5, sp. n.; *vitzenmanni* (471) f. 32, *rupicapra* (473) pl. cvi f. 31, *scabra* (476) pl. cvi f. 32, *verberata* (480) pl. cvii f. 1, *bicolorago* (481) f. 2, *gratiosa* (484) f. 3, *deleta* (486) f. 4, *purpurea* (489) f. 6, *puta* f. 7, *ralla* f. 8, (490), *inops* f. 9, *decipiens* f. 10, (491), HAMPSON Cat. Lep. phal. **6**.

Amephana gen. n. type *Cleophana anarihini* Dup., HAMPSON (107) T.c.

Ammetopa gen. n. type *Metopoeeras* Oberth., HAMPSON (120) T.c.

Ammoconia caecimaacula, melanismus, WISKOTT pl. x f. 14 (331) D. ent. Zs. Iris **18**.

Amphigonia brunnea sp. n. Venezuela, SCHLAUS (112) Washington U. S. Nation. Mus. Proc. **30**.

Amphipyra bicolora New Guinea, BETHUNE-BAKER (191) Nov. Zool. Tring **13**, sp. n.

Amyna poliastris sp. n. Punjab, HAMPSON (470) Bombay J. Nat. Hist. Soc. **17**.

Anartomorpha diodonta sp. n. Lob-Noor, PÜNGELER D. ent. Zs. Iris **19** (80).—*A. flavescens* Tibet, HAMPSON (486) pl. xxxvi f. 3 London Proc. Zool. Soc. 1906, sp. n.

Ancaroides kebea (196), *griseola* (197), New Guinea, BETHUNE-BAKER Nov. Zool. Tring **13**, spp. n.

Andesia gen. n. *Cucullianae*, *oenistis* sp. n. Argentina, HAMPSON (142) Cat. Lep. phal. **6**.

Antitype calamistis sp. n. Kashmir (365) pl. civ f. 28; *rebecca* (358) f. 24, *manisadjiani* (361) f. 25, *subrenusta* f. 26, *miltina* f. 27, (364), *apora* (366) f. 29, *illecebrosa* (368) f. 30, *hostilis* (370) f. 31, *jonis* (371) f. 32; HAMPSON T.c.—*Antitype* (*Polia*) *hostilis* Aschabad (92), *illecebrosa* Kuku-Noor (93), *subrenusta* Jerusalem, (94), spp. n., PÜNGELER D. ent. Zs. Iris **19** (92-94).

Apatela funeralis, larva, DYAR Ent. News **17** (69).

Aplecta nebulosa var. *thompsoni*, ARKLE (115) Entomologist 1906; variation in Britain, SOUTH (75, 76) pl. v Entomologist 1906.

Aplectoides (*Agrotis*) *propitia* sp. n. Kuku-Noor, PÜNGELER D. ent. Zs. Iris **19** (89).

Aporophyla australis var. n. *albidior*, BANG-HAAS (134) D. ent. Zs. Iris **19**.

Argyrogalea gen. n. for *Noctua argentea* Hüfn., HAMPSON (81) Cat. Lep. phal. **6**.

Argyromata gen. n. for *Phalaena splendida* Cr., HAMPSON (82) T.c.

Aristaria orizabalalis (124), *picatalis* Mexico, *trinitalis* Trinidad, *conspicua* Brazil, (125), *bocantis* Mexico, *ricalis* Costa Rica, *aztecalis*, (126), *stolalis* (127), Mexico, spp. n., SCHLAUS Washington U. S. Nation. Mus. Proc. **30**.

Aroana gen. n. *Focillinae* (280), *olivacea*, *rubra*, spp. n., New Guinea, (281), BETHUNE-BAKER Nov. Zool. Tring **13**.

Atethmia pampina (493) pl. cvii f. 11, HAMPSON Cat. Lep. phal. **6**.

Athaumasta gen. n. type *Eumichtis expressa* Led., HAMPSON (380) T.c.

Austramathes gen. n. for *Graphiphora purpurea* Butl., HAMPSON (492) T.c.

Axioteta rufa, *turneri*, *babooni*, *obliqua*, (278), *concolora*, *flava*, (279), New Guinea, BETHUNE-BAKER Nov. Zool. Tring **13**, spp. n.

Bagada dinawa (208), *fuseostrigata*, *incertissima*, *nigrostrigata*, (209), New Guinea, BETHUNE-BAKER Nov. Zool. Tring **13**, spp. n.

Baniana costiplaga New Guinea, BETHUNE-BAKER T.c. (264), **sp. n.**

Barasa griseola (221), *pura*, *nigrescens*, (222), New Guinea, BETHUNE-BAKER T.c., **spp. n.**

Barathra curialis life - history, FLETCHER and GIBSON (381-384) pl. iv Canad. Entomol. **38.**

Batyma **gen. n.**, *onesalis*, *franealis*, Brazil, **spp. n.**, SCHAUS (130) Washington U.S. Nation. Mus. Proc. **30.**

Bendis mascara (114), *thara* (115), Brazil, **spp. n.**, SCHAUS T.c.

Berresa rufa, *meeki*, New Guinea, BETHUNE-BAKER (199) Nov. Zool. Tring **13**, **spp. n.**

Bertula invenusta ♀; *B. similalis* Sumatra, SWINHOE Ann. Mag. Nat. Hist. **17** (551), **sp. n.**

Blenina nigrans (222) with ab. *varians* (223), *viridata*, *babooni*, *smaragdina*, (223), New Guinea, BETHUNE-BAKER Nov. Zool. Tring **13**, **spp. n.**

Blepharidia costalis (396) pl. cv f. 15, *paspas* (397) f. 16, *dianthoeccina* (398) f. 17, *conspicua* (399) f. 18, HAMPSON Cat. Lep. phal. **6.**

Bleptina delosticha Sumatra, SWINHOE (552) Ann. Mag. Nat. Hist. **17**, **sp. n.**

Bleptina eandalis (121), *clara*, Brazil, *margotialis* hab.? (122), **spp. n.**, SCHAUS Washington U. S. Nation. Mus. Proc. **30.**

Bombyeia eurri-fascia (217) pl. ci f. 28, HAMPSON Cat. Lep. Phal. **6.**

Bomolocha litalba **sp. n.** N. America, SMITH (29) New York J. Ent. Soc. **14.**

Borbotana kebeae, *ekeikei*, (207), *dinawa* (208), New Guinea, BETHUNE-BAKER Nov. Zool. Tring **13**, **spp. n.**

Borsippa punctilinea Hamps. to Aramuna; *B. macoma* Khasia hills, (410), *calthula* Borneo (411), **spp. n.**; SWINHOE Ann. Mag. Nat. Hist. **18.**

Bracharthron melanostrotum, Queensland, TURNER (124) Adelaide S. Aust. Trans. R. Soc. **30**, **sp. n.**

Brachionyeha borealis (204) pl. ci f. 17, HAMPSON Cat. Lep. phal. **6.**

Brachycosmia **gen. n.** for *Anchoeelis digitata* Gr., HAMPSON (496) T.c.

Brachygalea **gen. n.** *Cucullianae*, *leueorhabda* **sp. n.** Algeria, HAMPSON (8) T.c.

Brachylomia **gen. n.** type *Cleoceris populi* (220), *rectifaseia* (221) pl. ci f. 29; HAMPSON T.c.

Bryomima fallax California (388) pl. cv f. 8, *muscosa* Washington Terr. (392) f. 13, **spp. n.**; *johanna* (387) f. 7, *extreta* (389) f. 9, *tennicornis* f. 10, *chamaeleon* f. 11, (390), *virescens* (391) f. 12, *pulverulenta* (392) f. 14, *chryselestra* (394) pl. cviii f. 4; HAMPSON T.c.

Bryophila muralis, *raptricula* Zucht GAUCKLER Insektenbörse Leipzig **23** (127-128).—*B. aririda* **sp. n.** Colorado, SMITH (10) New York J. Ent. Soc. **14.**

Bryotype **gen. n.** type *Euplexa mesomelana* Hamps., HAMPSON (382) Cat. Lep. phal. **6.**

Buzara calodesma R. & J. pl. iii f. 4, JORDAN (761) Nov. Zool. Tring **13.**

Caffristis **gen. n.** type *Heliophobus ferrogrisea* Hamps., HAMPSON (227) Cat. Lep. phal. **6.**

Callingura kebeae New Guinea, BETHUNE-BAKER (227) Nov. Zool. Tring **13**, **sp. n.**

Callyna biplagiata (217), *fuseantaria* (218), New Guinea, BETHUNE-BAKER Nov. Zool. **13**, **spp. n.**

Calophasia eraussi (127) pl. xcix f. 10, *hamifera* (128) f. 11, HAMPSON Cat. Lep. phal. **6.**—*C. albolineata* Bl. (24) pl. ii f. 3, BLACHIER Paris Ann. Soc. ent. **75.**

(*Calophasia albolineata* BLACHIER, Paris Bul. Soc. ent. **1905**, **sp. n.**—*C. adamantina* BLACHIER, T.c. **sp. n.**)

Calymnia trapezina ab. *badiofasciata* Teich, SLEVOGT Insektenbörse **23** (36).

Campometra protea (234), *paresa* (236), Arizona, SMITH Canad. Entomol. **38**, **spp. n.**

Canthylidia cf. *Meliclectria*.

Capnodes brunnea Sumatra, SWINHOE (550) Ann. Mag. Nat. Hist. **17**, **sp. n.**—*C. costiplaga*, *minuta*, New Guinea, BETHUNE-BAKER (284) Nov. Zool. Tring **13**, **spp. n.**—*C. virginea* **sp. n.** Brazil, SCHAUS (114) Washington U. S. Nation. Mus. Proc. **30.**

Capotena albicosta, *subflara*, (240), *albotessellata* (241), New Guinea, BETHUNE-BAKER Nov. Zool. **13**, **spp. n.**

Caradrina hispanica la Granja, MABILLE (31) pl. iii f. 1 Paris Ann. Soc. ent. **75**, sp. n.—*C. subpartita*, *unipunctata*, *funerea*, *insignifica*, (201), *gemini*, *crenulata*, *pratti*, (202), New Guinea, BETHUNE-BAKER Nov. Zool. Tring **13**, spp. n.—*C. exigua*, natural history; MAXWELL-LEFROY Agric. res. Inst. Pusa **1** (338-350) pl. xxiii; and Agric. J. India **1** pt. 4, pl. xxiii; in Egypt, WILLCOCKS Cairo, Yrbk. Khed. Agric. Soc. **1905** (104-115) pl. iv.

Carbona gen. n., *obscura* sp. n. Brazil, SCHAUUS (102) Washington U. S. Nation. Mus. Proc. **30**.

Carca parallelaria, *unipunctata*, *flava*, (242), *pratti* (243), New Guinea, BETHUNE-BAKER Nov. Zool. Tring **13**, spp. n.

Careades gen. n. near *Carca*, *sanguinea*, (243), *ekeikei*, *falcataria*, *fulva*, (244), *obliqua*, *subrubra*, *rubricosa*, (245), spp. n., New Guinea, BETHUNE-BAKER T. c.

Caroga gen. n., *costalis* sp. n. Brazil, SCHAUUS (110) Washington U. S. Nation. Mus. Proc. **30**.

Casandria chirica sp. n. Mexico, SCHAUUS (108) T. c.

Catada obscura He Maurice, JOANNIS (175) pl. ix f. 7 Paris Ann. Soc. ent. **75**, sp. n.—*C. acrospila* Queensland, TURNER (123) Adelaide S. Aust. Trans. R. Soc. **30**, sp. n.—*C. acholi* Uganda, BETHUNE-BAKER (344) Ann. Mag. Nat. Hist. **18**, sp. n.—*C. rufostriata*, (251), *alboplagiata*, *mediogriseata*, *dinawa*, (252), *pulchristriata*, *splendens*, *hampsonia*, (253), New Guinea, BETHUNE-BAKER, Nov. Zool. Tring **13**, spp. n.—*C. alchemista* ab. *varia* Chr. pl. x f. 13, (331), D. ent. Zs. Iris **18**.

Catocala dinawa New Guinea, BETHUNE-BAKER (246) Nov. Zool. Tring **13**, sp. n.—*C. fraxini* ab. *contigua* n. & *angustata* n., *electa* ab. *excellens* n., *nupta* ab. *mutilata* n., *elocata* ab. *lais* n. & ab. *flavicans* n., *sponsa* ab. *desponsa* n., *promissa* ab. *obsoleta* n., *puerpera* ab. *genetrix* n., *nymphagoga* ab. *curvifasciata* n. & ab. *nubilosa* n., *hymenaea* ab. *connexa* n., *diversa* ab. *umbrata* n., SCHULTZ Ent. Zs. Guben **20** (86-87, 94-95, 100-101).—*C. dilecta*, *electa*, *elocata*, *nupta*, abb.; A. AIGNER Ann. Hist.-Nat. Hung. **7** (522-523).—*Catocala* spp., habits, ROWLEY Ent. News **17** (231-234).—Zucht, BOHATSCHKE Ent.

Zs. Guben **19** (216-217).—Colour protection, KUSNEZOV Biol. Centralbl. **26** (116-124).

Celaena matura ab., A. AIGNER Ann. Hist.-Nat. Hung. **4** (521).

Cerma marina Arizona, SMITH (226) Canad. Entomol. **38**, sp. n.

Ceromacra babooni, *ekeikei* (284), *dinawa*, *purpurea*, *aroa*, (285), New Guinea, BETHUNE-BAKER Nov. Zool. Tring **13**, spp. n.

Chamina ehoria sp. n. Brazil, SCHAUUS (115) Washington U. S. Nation. Mus. Proc. **30**.

Charadra ingenua sp. n. Colorado, SMITH (12) New York J. Ent. Soc. **14**.

Cheligalea gen. n. type *Cucullia scopariae*, HAMPSON (13) Cat. Lep. phal. **6**.

Chloridea nanna Tibet, HAMPSON (487) pl. xxxvi f. 1 London Proc. Zool. Soc. **1906**, sp. n.—*C. obsoleta* larva, PIEPERS (30) 's Gravenhage Tijdschr. Ent. **49**.

Cirphis (*Leucania*) *propensa* sp. n. Ili-Gebiet, PÜNGELER D. ent. Zs. Iris **19** (91).—*C. loreyi* larva (38), *hamifera* larva (39), *yu* larva (41), PIEPERS 's Gravenhage Tijdschr. Ent. **49**.

Cirrhoedia xerampelina, in Lothringen, DIETZE Ent. Zs. Guben **20** (221).

Cleophana gafsana Bl. (24) pl. ii f. 2, BLACHIER Paris Ann. Soc. ent. **75**.—*C. pectinicornis* (99) pl. xcix f. 2, *opposita* (101) f. 3, *diffuens* (102) f. 4, *marocana* (104) f. 5, HAMPSON Cat. Lep. phal. **6**.

(*Cleophana gafsana*, BLACHIER, Paris Bul. soc. ent. **1905**, sp. n.)

Cletthara multilinea New Guinea, BETHUNE-BAKER (224) Nov. Zool. Tring **13**, sp. n.

Coenipeta glaucoides Amazons (116), *laurena* Guiana, *medulba* Brazil, (117), *umbrata* musa, (119), *subocellata*, *subvaria*, (119), Guiana, *albidentina* Brazil, (120), spp. n., SCHAUUS Washington D. C., U. S. Nation. Mus. Proc. **30**.

Conistra eriophora (445) pl. cvii f. 31, *acutula* (451) pl. cvi f. 15, *politina* (452) f. 16, *ardescens* (455) f. 17, *albipuncta* (456) pl. cvii f. 30, *inulta* (460) pl. cvi f. 18, *viatica* (461) f. 19, *signata* f. 20, *tristigmata* f. 21, (462), *valceri* (463) f. 22, *sidus* f. 23, *colorado* f. 24, (464),

morrisoni f. 25, *devia* f. 26, (165), *indirecta* f. 27, *moftatiana* f. 28, (166), *pettiti* (167) f. 29, *ceromatica* (168) f. 30, HAMPSON Cat. Lep. phal. 6.

Conservula cinisigma Ile Maurice, JOANNIS (170) pl. ix f. 2 Paris Ann. Soc. ent. **75**, sp. n.

Contortivena gen. n. *Focillinae*, *umbrosa* sp. n. New Guinea, BETHUNE-BAKER (283) Nov. Zool. Tring **13**.

Cophanta chrysarginea sp. n. Brazil, SCHAUS (105) Washington D.C. U. S. Nation. Mus. Proc. **30**.

Copieueullia antipoda (9) pl. xvi f. 16, *astigma* (11) f. 17, *syrtana* f. 18, *naruensis* f. 19, (12), *sublutea* f. 20 (13); HAMPSON Cat. Lep. Phal. 6.

Copipanolis borealis pl. ci f. 24, *fasciata* f. 25, (214), HAMPSON, T.c.

Copiphana gen. n. type *Cleophana olivana* H.-S., *gassana* sp. n. Tunis, C. oliva St. pl. xcix f. 1, HAMPSON (95) T.c.

Copitarsia gen. n. type *Polia turbata* H.-S. (183), *patagonica* sp. n. Andes (185) pl. c f. 30; *humilis* f. 27, *consuetu* f. 28, (183), *naeniodes* (185) f. 29, *purilinea* (186) f. 31; HAMPSON T.c.

Copitype gen. n. for *Dasypolia pagodae* Alph., HAMPSON (206) T.c.

Corgatha argillacea Ile Maurice, JOANNIS (173) pl. ix f. 5 Paris Ann. Soc. ent. **75**, sp. n.—*C. bipunctata*, *pulehra*, (213), *albolineata*, *mediopallens*, *nigropunctata*, (214), New Guinea, BETHUNE-BAKER Nov. Zool. Tring. **13**, spp. n.

Corubia gen. n., *testacea* sp. n. Brazil, SCHAUS (109) Washington U. S. Nation. Mus. Proc. **30**.

Coscaga gen. n., *angulata* sp. n. Mexico, SCHAUS (131) T.c.

Cosmia siphunculata Mongolia (499) pl. cvii f. 12, *cypreago* Cyprus (506) f. 14, *distigmata* (509) f. 19, *approximata* (511) f. 22, India, *andesica* Argentina (517) pl. cviii f. 8, spp. n.; *C. tunicata* (503) pl. cvii f. 13, *vulpecula* f. 15, *rectilineata* f. 16, (507), *ledereri* (508) f. 17, *melonina* (509) f. 18, *albosignata* (510) f. 20, *pulehella* (511) f. 21, *edentata* f. 23, *divergens* f. 24, (512); HAMPSON Cat. Lep. phal. 6.—*C. bisignata* sp. n. Madras, HAMPSON (476) Bombay J. Nat. Hist. Soc. **17**.—*C. inconspicua* New Guinea, BETHUNE-BAKER (210) Nov. Zool. Tring **13**, sp. n.

Cosmophila ochreifusa Sumatra, SWINHOE (408) Ann. Mag. Nat. Hist. **18**, sp. n.—*C. kebecensis*, *aroa*, *angulata*, (236), *subpurpurea*, *ekeikei*, *mafalin*, (237), New Guinea, BETHUNE-BAKER Nov. Zool. Tring **13**, spp. n.

Crenularia gen. n. *Focillinae*, *concolor* sp. n. New Guinea, BETHUNE-BAKER (282) T.c.

Crioa lophosoma Brisbane, TURNER (121) Adelaide S. Aust. Trans. R. Soc. **30**, sp. n.

Criophasia gen. n. *Cucullinae*, *albolineata* sp. n. Tunis, HAMPSON (122) Cat. Lep. phal. 6.

Cteipolia aerophila Kashmir, HAMPSON (121) T.c., sp. n.

Cucullia strigata (15) pl. xvi f. 21, *brucei* (16) f. 22, *solidaginis* (17) f. 23, *albida* (18) f. 24, *albipennis* (26) f. 25, *brunnea* (30) f. 27, *gracseri* (31) f. 28, *generosa* (34) f. 29, *embolina* (35) f. 30, *duplicata* (36) f. 31, *hemidiaphana* (39) f. 32, *nigrifascia* pl. xcvii f. 1, *relecta* (40) f. 2, *clausa* (42) pl. xcvii f. 3, *extricata* (46) f. 6, *distinguenda* (47) f. 7, *terrensis* (48) pl. xcviii f. 21, *dentilinea* (49) pl. xcvii f. 8, *dorsalis* (51) f. 9, *speyeri* (51) f. 10, *lactifica* (52) f. 13, *buddha* (53) f. 14, *minuta*, (55) f. 15, *pullata* (56) pl. xcvii f. 11, *tecca* (57) f. 16, *intermedia* (60), *cinderella* f. 18, *grisescens* f. 12, (61), *montana* f. 19, *flore* f. 20, (63), *brevipennis* (66) f. 21, *lilacina* (67) pl. xcviii f. 1, *bistriga* pl. xcvii f. 20, *asteroides* pl. xcviii f. 2, (68), *postera* (69) f. 3, *obscurior* (70) f. 4, *similaris* f. 5, *arizona* f. 6, (71), *perstrigata* nom. n. for *strigata* Schaus f. 7, *convexipennis* f. 8, (72), *stigmatophora* (73) f. 9, *serophulariphila* (75) f. 10, *anceps* (77) pl. xcviii f. 11, *oribac* pl. cviii f. 1, *agua* f. 2, (516) *leucopis* Cape, colony (28) pl. xevi f. 26, *rufescens* pl. xcvii f. 4, *perstriata* f. 5, (42), E. Africa, spp. n.; HAMPSON Cat. Lep. phal. 6.—*C. embolima* Kuku-Noor, *C. tecca* Ashabad, PÜNGELER D. ent. Zs. Iris **19** (96), spp. n.

Cyathissa quadrata, *ochracea*, Arizona, SMITH (225) Canad. Entomol. **38**, spp. n.

Cyclodes pulehra New Guinea, BETHUNE-BAKER (254) Nov. Zool. Tring **13**, sp. n.

Daseuplexia **gen. n.** type *Luperina lagenifera* Moore, HAMPSON (303) Cat. Lep. phal. 6.

Dasypolia mitis **sp. n.** hab.?, PÜNGELER D. ent. Zs. Iris 19 (95).—*D. ferdinandi* (424) pl. cvi f. 3, HAMPSON Cat. Lep. phal. 6.

Dasystemum eristicum **sp. n.** Turkestan, PÜNGELER D. ent. Zs. Iris 19 (94).—*D. juditha* pl. cv f. 28, *bacheri* f. 29, (408), *haeretica* (409) f. 30, *eristica* (410) f. 31, HAMPSON Cat. Lep. phal. 6.

Dasythorax poliana (426) pl. cvi f. 4, *anartina* f. 5, *hirsutula* f. 6, (427), *hirsuta* f. 7, *rasilis* f. 8, (428), HAMPSON T.c.

Dendrothripa vcnalis New Guinea, BETHUNE-BAKER (226) Nov. Zool. Tring 13, **sp. n.**

Derthisa amasina Asia minor **sp. n.** (232) pl. cii f. 2; *sareptana* (229) f. 1; HAMPSON Cat. Lep. phal. 6.

Dera multicolora New Guinea, BETHUNE-BAKER (271) Nov. Zool. Tring 13, **sp. n.**

Dierna lilacea New Guinea, BETHUNE-BAKER (286) T.c., **sp. n.**

Diamuna haenschii **sp. n.** Ecuador, (275), DOHRN Stettiner ent. Ztg. 67 (275-276).

Dichonia obliquisigna (294) pl. ciii f. 17, HAMPSON Cat. Lep. phal. 6.

Dinumma hades, mediobrunnea, New Guinea, BETHUNE-BAKER (217) Nov. Zool. 13, **spp. n.**

Dipterygia kebeac, babooni, New Guinea, BETHUNE-BAKER (197) T.c., **spp. n.**

Diphthera imray **sp. n.** Travancore, HAMPSON (471) Bombay J. Nat. Hist. Soc. 17.—*D. kebeac* New Guinea, BETHUNE-BAKER (203) Nov. Zool. Tring 13, **sp. n.**

Diphtheroides **gen. n.** *Acontiinae*, *kenricki* (203), *serrata* (204), **spp. n.**, New Guinea, BETHUNE-BAKER T.c.

Discestra (Mamestra) vaciva **sp. n.** Ili-Gebiet, PÜNGELER D. ent. Zs. Iris 19 (90).

Dissolophus oclraceus New Guinea, BETHUNE-BAKER (200) Nov. Zool. Tring 13, **sp. n.**

Disticta hampsoni, tornopunctata, (277), *kebea* (278), New Guinea; BETHUNE-BAKER T.c., **spp. n.**

Doryodes elongata **sp. n.** Brazil, SCHAU (109) Washington U. S. Nation. Mus. Proc. 30.

Dryotype **gen. n.** type *Dryobota spina* Gr., HAMPSON (228) Cat. Lep. phal. 6.

Earias uniplaga, rufopunctata, novoguineana, New Guinea, BETHUNE-BAKER (219) Nov. Zool. Tring 13, **spp. n.**—*E. insulana* Egypt, WILLCOCKS Cairo Yrbk. Khed. Agric. Soc. 1905 (57-91), pls. ii & iii.

Eceleta; definition amended, TURNER (120) Adelaide S. Austr. Trans. R. Soc. 30.

Egnasia mesotypa Khasia hills, SWINHOE Ann. Mag. Nat. Hist. 17, **sp. n.**—*E. delicata, chloroplaga*, (279), *dinawa* (280), New Guinea, BETHUNE-BAKER Nov. Zool. Tring 13, **spp. n.**

Elusa dinawa, incertans, pratti, New Guinea, BETHUNE-BAKER (200) T.c., **spp. n.**

Empusada **nom. n.** for *Empusa* Hübn. (85); *argentivitta* Basutoland (87) pl. xcviii f. 14, *pyrostrata* Transvaal f. 15, *ruficeps* Madagascar f. 16, (88), **spp. n.**; *argyrina* (86) f. 12, *hutchinsoni* (87) f. 13, *chrysota* f. 17, *pallidistria* f. 18, (88), *sabulosa* (90) f. 19; HAMPSON Cat. Lep. phal. 6.

Epa **gen. n.** (192), *pratti* **sp. n.** New Guinea, (193), BETHUNE-BAKER Nov. Zool. Tring 13.

Epidemas melanographa Canada **sp. n.** (215) pl. ci f. 26; *obscura* 216) f. 27; HAMPSON Cat. Lep. phal. 6.

Epiglaca apiata pl. cvi f. 11, *contracta* f. 12, (433), HAMPSON T.c.

Episema glaucina var. *dentimaculata*, et. ab. *tersina*, abb., A. AIGNER Ann. Hist.-Nat. Hung. 4 (520-521).

Episilia (Agrotis) pancta Alexander-gebirge (86), *leacna* (87), *thapsina*, Fergana, *psammia* Aschabad, (88), **spp. n.**, PÜNGELER D. ent. Zs. Iris 19.—*E. astigmata* Tibet, HAMPSON (489) pl. xxxvi figs. 4 and 5 London Proc. Zool. Soc. 1906, **sp. n.**

Episparis angulatilinea New Guinea, BETHUNE-BAKER (268) Nov. Zool. Tring 13, **sp. n.**

Epizexis (Helia) calvaria Zucht, OERTEL Ent. Zs. Guben 20 (89); Weiteres dazu, Richard GILARDON, T.c. (101).

Erastria ferrimacula **sp. n.** Khásis, HAMPSON (472) Bombay J. Nat. Hist. Soc. **17**.

Ercheia certa, *ckeikei*, *styx*, (248), *kebea* (249), New Guinea, BETHUNE-BAKER Nov. Zool. Tring **13**, **spp. n.**

Eriopyga griseirena **sp. n.** hab.?, SCHAU (96) Washington U. S. Nation. Mus. Proc. **30**.

(*Eriopyga brachia* Brazil, JOANNIS, Paris Bul. soc. ent. **1904**, **sp. n.**)

Erygansa **gen. n.** *Quadrifinae*, *kebea*, *avola*, (246), *kebeensis* (247), **spp. n.**, New Guinea, BETHUNE-BAKER Nov. Zool. Tring **13**.

Eublemmoides **gen. n.**, *dinawa* **sp. n.** New Guinea, BETHUNE-BAKER (212) T.c.

Eulidia munita, BARTEL Ent. Zs. Guben **20** (116–117).

Eudipna templada **sp. n.** Mexico, SCHAU (97) Washington U. S. Nation. Mus. Proc. **30**.

Euglyphia proserpina Peru, DRUCE (94) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Eugorna alboareuata New Guinea, BETHUNE-BAKER (269) Nov. Zool. Tring **13**, **sp. n.**

Eumichtis tenerifica Canary islds. (326) pl. cviii f. 5, *melanodonta* Japan (327) pl. civ f. 6, *mesophaea* Victoria (343) f. 15, *rubrimixta* Africa (347) f. 18, **spp. n.**; *muscosa* (322) f. 5, *adjuncta* (328) f. 7, *sepultrix* (333) f. 8, *remista* (334) f. 9, *ducta* (335) f. 10, *versuta* (336) f. 11, *contermina* (340) f. 12, *intermissa* (341) f. 13, *saliaris* (342) f. 14, *extima* (343) f. 16, *maida* (344) f. 17, *lama* pl. cviii f. 6, *concina* f. 7, (516); HAMPSON Cat. Lep. phal. **6**.

Eupanychis camina **sp. n.** New Hampshire, SMITH (28) New York J. Ent. Soc. **14**.

Euplexia leprostieta Ceylon, *riveifera* Simla, HAMPSON (469) Bombay J. Nat. Hist. Soc. **17**, **spp. n.**—*E. viridacea*, *smaragdina*, *dinawa*, New Guinea, BETHUNE-BAKER (195) Nov. Zool. Tring **13**, **spp. n.**—*E. adamantina* Melbourne, TURNER (120) Adelaide, S. Aust. Trans. R. Soc. **30**, **sp. n.**

Eupsilia tripunctata (436) pl. cvii f. 27, *quadrilinea* f. 28, *strigifera* pl. cvi f. 13, (438), HAMPSON Cat. Lep. phal. **6**.

(x-9720 j)

Eurois dinawa New Guinea, BETHUNE-BAKER (196) Nov. Zool. Tring **13**, **sp. n.**

Eurotype **gen. n.** type *Pachypolia acutissima* Gr. (289), *medialis* (290) pl. ciii f. 15, *confragosa* (291) f. 16, HAMPSON Cat. Lep. phal. **6**.

Eustrotia geoga **sp. n.** Mexico, SCHAU (103) Washington U. S. Nation. Mus. Proc. **30**.

Eutelia hampsoni, *mediofusca*, *oliraeciplaga*, (228), *dinawa*, *kebeae*, *albicomma*, (229), *purpureonigra*, *viridata*, *deletoides*, (230), *ochreiplaga* (231), New Guinea, BETHUNE-BAKER Nov. Zool. Tring **13**, **spp. n.**

Eutolyte bombyceiformis (210) pl. ci f. 20, *depilis* f. 21, *grandis* f. 22, (211), *damalis* (212) f. 33, HAMPSON Cat. Lep. phal. **6**.

Euxoa (*Agrotis*) *clauda* **nom. n.** für *subdeceora* Hamps. nec Stgr., *moecilla* Turkestan, (81), *cueuna* Kuku-Noor, *scditiosa* Fergana, (82), *privigna* Turkestan (83), *enixa* Fergana (84), **spp. n.**, PÜNGELER D. ent. Zs. Iris **19** (81–84).—*E. claromonta* **sp. n.** California, SMITH (11) New York J. Ent. Soc. **14**.—*E. esta* British Columbia, SMITH (227) Canad. Entomol. **38**, **sp. n.**—*E. interjectionis* larva, PIEIERS (32) 's Gravenhage Tijdschr. Ent. **49**.

Exyra dinawa New Guinea, BETHUNE-BAKER (226) Nov. Zool. Tring **13**, **sp. n.**

Feralia columbiana (197) pl. ci f. 13, *major* (199) f. 14, HAMPSON Cat. Lep. phal. **6**.

Focillodes **gen. n.** *Focillinae* (281), *dinawa*, *brunnea*, *griscata*, (282), *fulva*, *medionigra*, (283), **spp. n.**, New Guinea, BETHUNE-BAKER Nov. Zool. Tring **13**.

Fodina kebea New Guinea, BETHUNE-BAKER (266) T.c., **sp. n.**

Gadirtha costipallens, *inconspicua*, New Guinea, BETHUNE-BAKER (220) Nov. Zool. Tring **13**, **spp. n.**

Galgula partita Gu. = (*G. hepara* Gu. = *Prothymnia baueri* Stgr.), WISKOTT D. ent. Zs. Iris, Berlin, **18** (328–331) 1 Taf.

Gonodonta marmorata **sp. n.** Mexico, SCHAU (111) Washington U. S. Nation. Mus. Proc. **30**.

Gonopteronia **gen. n.** near *Pseudogonitis*, *albopunctata*, *fulminans*, **spp. n.**

New Guinea, BETHUNE-BAKER (239) Nov. Zool. Tring **13**.

Grammoscelis **gen. n.**, *leuconera* **sp. n.** Cape Colony, HAMPSON (468) Cat. Lep. phal. **6**.

Graptolitha semiusta (249) pl. cii f. 4, *bethunei* f. 5, *putefacta* f. 6 (250), *innominata* (251) f. 7, *rosinae* f. 8, *hemina* f. 9 (252), *disposita* (253) f. 10, *oriunda* f. 11, *ferrealis* f. 12, (254), *petulea* (255) f. 13, *signosa* f. 14, *amanda* f. 15, (256), *lepida* (260) f. 16, *perata* (263) f. 17, *dilatocula* f. 18, *einerosa* f. 19, (264), *laticinerea* (265) f. 20, *antennata* f. 21, *torrida* f. 22, (266), *atincta* (267) f. 23, *tepida* f. 24, *baileyi* f. 25, (268), *querquera* (269) f. 26, *viridipallens* (270) f. 27, *longior* (271) f. 28, *contenta* f. 29, *puella* f. 30, (272), *mercada* f. 31, *unimoda* f. 32, (273), *vertina* pl. ciii f. 1, *ancilla* f. 2, (274), *holocinerea* (275) f. 3, *fletcheri* f. 4, *georgi* f. 5, (276), *emarginata* f. 6, *oregonensis* f. 7, (277), *itata* (278) f. 8, *fagina* (279) f. 9, HAMPSON T.c.

Gyrtone acuda Sumatra, SWINHOE (549) Ann. Mag. Nat. Hist. **17**, **sp. n.**

Hadena ribbei **sp. n.** Spanien, PEXGELER D. ent. Zs. Iris **19** (77-78) pl. v f. 3.—*H. whitei* Tenerife, REBEL (28) Wien Ann. Nat. Hist. Hofmus. **21**, **sp. n.** —*H. bullata* Colorado, SMITH (228) Canad. Entomol. **38**, **sp. n.**—*H. jonea* **sp. n.** Brazil, SCHAU'S (101) Washington U. S. Nation. Mus. Proc. **30**.

Harpaglaea **gen. n.** type *Glaea pastillicans* Morr. (429); *sericea* pl. cxi f. 9, *tremula* f. 10, (430); HAMPSON Cat. Lep. phal. **6**.

Harpagophana **gen. n.** type *Metopocera hilaris* St., HAMPSON (115) T.c.

Harrisimemna trisignata pupation, PEARSALL Ent. News **17** (21-23).

Heliophobus hispidus grumi, Genitalarmatur und Systematisches, PETERSEN St. Petersburg Hor. Soc. Ent. Russ. **37** (347-351).—*H. lohi*, NOEL Naturaliste Paris **28** 1906 (227).—*H. populi* ravages in the Doubs, NOEL (227) Naturaliste 1906.

Heliothis peltigera life-history, SICH (283-288) Ent. Rec. 1906; pupa, BACOT (300) Ent. Rec. 1906.—*H. niveicosta* **sp. n.** California, SMITH (15) New York J. Ent. Soc. **14**.

Herminia tentaculuris ab. n. *meirneri*, WAGNER (228) Wien Verh. zool.-bot. Ges. 1906.

Hillia discinigra (224) pl. ci f. 32, HAMPSON Cat. Lep. phal. **6**.

Himella flosca Arizona, SMITH (231) Canad. Entomol. **38**, **sp. n.**

Hirsutipes **gen. n.** for *Hypactra trifasciata* Swinh., BETHUNE-BAKER (263) Nov. Zool. Tring **13**.

Homodes punctistriga New Guinea, BETHUNE-BAKER (218) T.c., **sp. n.**

Homoglaea carbonaria (514) pl. cvii f. 25, *californica* (515) f. 26, HAMPSON Cat. Lep. phal. **6**.

Homohadena fifia pl. ci f. 1, *retrocrorsa* f. 2, (188), *infixa* f. 3, *induta* f. 4, (189), *loculosa* (190) f. 5, *coelei* (191) f. 6, *incomitata* f. 7, *stabilis* f. 8, (192), HAMPSON T.c.

Homoneoenemis **gen. n.** for *Homohadena fortis* Grote, HAMPSON (180) T.c.

Homopyralis edilis Arizona, SMITH (237) Canad. Entomol. **38**, **sp. n.**—*H. picta* Mexico, *pandama* Venezuela, **spp. n.**, SCHAU'S (111) Washington U. S. Nation. Mus. Proc. **30**.

Hyela ferrens **sp. n.** Canara, HAMPSON (474) Bombay J. Nat. Hist. Soc. **17**.

Hylophila rubromarginata New Guinea, BETHUNE-BAKER (219) Nov. zool. Tring **13**, **sp. n.**

Hyppena epigaea Sumatra, SWINHOE (552) Ann. Mag. Nat. Hist. **17**, **sp. n.**—*H. oronalis* **sp. n.** Bolivia, SCHAU'S (133) Washington U. S. Nation. Mus. Proc. **30**.

Hyppocuma **gen. n.** (132), *leucanioides* **sp. n.** Brazil (133), SCHAU'S Washington U. S. Nation. Mus. Proc. **30**.

Hypnotype **gen. n.** for *Diphthera placens* Walk., HAMPSON (111) Cat. Lep. phal. **6**.

Hypocala kebecae, *pratti*, New Guinea, BETHUNE-BAKER (249) Nov. Zool. Tring **13**, **spp. n.**

Hypothripa distincta New Guinea, BETHUNE-BAKER (224) T.c., **sp. n.**

Hypactra pratti, *noroguineana*, *subpunctata*, New Guinea, BETHUNE-BAKER (262) T.c., **spp. n.**—*H. trifasciata* Swinh. cf. *Hirsutipes*.

Hypotype **gen. n.** type *Polia scotomista* Hamps. (384); *nigridentata* (385) pl. cv f. 6; HAMPSON Cat. Lep. phal. 6.

Hypsophila tamerlana (418) pl. cvi f. 1, *grumi* (420) f. 2, HAMPSON T.c.

Hattia aroa New Guinea, BETHUNE-BAKER (199) Nov. Zool. Tring **13**, **sp. n.**

Ilsea **gen. n.** *bormia* **sp. n.** Brazil, SCHAUS (131) Washington U. S. Nation. Mus. Proc. **30**.

Inguira pratti, *costistrigata*, New Guinea, BETHUNE-BAKER (226) Nov. Zool. Tring **13**, **spp. n.**—*I. sabulosa* **sp. n.** Brazil, SCHAUS (98) Washington U. S. Nation. Mus. Proc. **30**.

Isadia nigra Argentina (103), *duckinfieldia*, *stroca*, Brazil, (104), **spp. n.**, SCHAUS T.c.

Ischyja kebecae, New Guinea, BETHUNE-BAKER (266) Nov. Zool. Tring **13**, **sp. n.**

Isochlora metaphaea Sikhim, HAMPSON (488) pl. xxxvi f. 2 London Proc. Zool. Soc. 1906, **sp. n.**

Isoura pratti New Guinea, BETHUNE-BAKER (261) Nov. Zool. Tring **13**, **sp. n.**

Kohleria **gen. n.**, *nebula*, (99), *bruma* (100), **spp. n.** Brazil, SCHAUS Washington U. S. Nation. Mus. Proc. **30**.

Labanda viridescens (220), *crenulata* (221), New Guinea, BETHUNE-BAKER Nov. Zool. Tring **13**, **spp. n.**

Lagoptera pratti New Guinea, BETHUNE-BAKER (260) T c., **sp. n.**

Lamprosticta niphopasta Syria **sp. n.** (313) pl. ciii f. 23; *L. munda* (316) f. 24; HAMPSON Cat. Lep. phal. 6.

Laphygma exigua, ovum, SICH (267) Entomologist 1906.

Lasiestra (*Mamestra*) *meraea* **sp. n.** Turkestan, PÜNGELER D. ent. Zs. Iris **19** (90).

Lasiopoderes **gen. n.** near *Hypaetra*, *pratti* **sp. n.** New Guinea, BETHUNE-BAKER (263) Nov. Zool. Tring **13**.

Lasiosecles **gen. n.** *Acontiinae* (204), *pratti* **sp. n.** New Guinea (205), BETHUNE-BAKER T.c.

Leptina levitans **sp. n.** Ontario, SMITH (9) New York J. Ent. Soc. **14**.

Leucania obsoleta Dunedin, HOWES (511) pl. xlv f. 5 Wellington Trans. N. Zeal. Inst. **38**, **sp. n.**

(x-9720 j)

Leucanitis kabyllaria Tunis, BANG-HAAS (136) pl. v f. 7, D. ent. Zs. Iris **19**, **sp. n.**

Leucochlaena **gen. n.** type *Noctua hispidia* Gey. (132), *L. leucocera* Hamps. (136) pl. xcix f. 12, HAMPSON Cap. Lep. phal. 6.

Lineopalpa sugama Queensland, SWINHOE (408) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Liodes neurogramma Australia, TURNER (123) Adelaide S. Aust. Trans. R. Soc. **30**, **sp. n.**

Litholomia dunbari (223) pl. ci f. 31, HAMPSON Cat. Lep. phal. 6.

Lithophane ledereri (246) pl. cii f. 3, HAMPSON T.c.

Lophoterges **gen. n.** type *Lithocampa fatua* Püng., HAMPSON (91) T.c.

Luperina dumetorum H. G. ab. n. *bleconnensis*, SCHULZ D. ent. Zs. Iris **19** (38-41) pl. v figs. 1 and 2.

Lycophotia (*Agrotis*) *dizyx* **sp. n.** Kuku-Noor, PÜNGELER D. ent. Zs. Iris **19** (88).—*L. poliochroa* Tibet, HAMPSON (489) pl. xxxvi figs. 16 and 17 London Proc. Zool. Soc. 1906, **sp. n.**

Lythrododes minutissima Arizona, SMITH (234) Canad. Entomol. **38**, **sp. n.**

Maceda rufescens New Guinea, BETHUNE-BAKER (222) Nov. Zool. Tring **13**, **sp. n.**

Magulaba nigra New Guinea, BETHUNE-BAKER (212) T.c., **sp. n.**

Makapta **gen. n.**, *carnescens* **sp. n.** Brazil, SCHAUS (99) Washington U. S. Nation. Mus. Proc. **30**.

Mamestra brassicae and *dissimilis* natürliche Feinde, VASILJEV Věstn. sacharn. promyšl. **5** (911-918).—*M. tuana*, *sareta*, Arizona, SMITH (229) Canad. Entomol. **38**, **spp. n.**—*M. pettinicornis* **sp. n.** Arizona, SMITH (11) New York J. Ent. Soc. **14**.

Marcipa tripuncta New Guinea, BETHUNE-BAKER (271) Nov. Zool. Tring **13**, **sp. n.**

Mastigophorus pandes, *lineata*, Mexico, **spp. n.**, SCHAUS (129) Washington U. S. Nation. Mus. Proc. **30**.

Matigramma pamela **sp. n.** hab.?, SCHAUS (112) T.c.

Mecodina noroquinea New Guinea, BETHUNE-BAKER (272) Nov. Zool. Tring **13**, sp. n.

Megachyta nolualis Mexico, *sabularia* Brazil, **spp. n.**, SCHAU (123) Washington U. S. Nation. Mus. Proc. **30**.

Meganephria extensa (308) pl. ciii f. 21, *funesta* (310) f. 22, HAMPSON Cat. Lep. phal. **6**.

Melanchra beata **sp. n.** N. Zealand (511) pl. xliv f. 2, HOWES Wellington Trans. N. Zeal. Inst. **38**.

Meliana uniformis larva, PIEPERS (43) 's Gravenhage Tijdschr. Ent. **49**.

Melicleptria melibaphes to *Canthylidia*, TURNER (119) Adelaide S. Aust. Trans. R. Soc. **30**.—*M. antonio*, *sabulosa*, (16), *cresina*, *sexata*, (17), *subatra*, *trilata*, (18), *dobla*, *edwardsii*, (19), *flaridenta* (23), N. America, SMITH New York J. Ent. Soc. **14**, **spp. n.**

Metachrostis hemiphæa (478), *illosis* (477), *pectinata* (476), Ceylon, HAMPSON Bombay J. Nat. Hist. Soc. **17**, **spp. n.**

Metalepsis aletes Sikhim, HAMPSON (488) pl. xxxvi f. 6 London Proc. Zool. Soc. 1906, **sp. n.**

Metatlopha gloriosa (105) pl. xcix f. 6, HAMPSON Cat. Lep. phal. **6**.

Metopoceras gaucleri (119) pl. xcix f. 8, HAMPSON T.c.

Microeschus parva New Guinea, BETHUNE-BAKER (217) Nov. Zool. Tring **13**, **sp. n.**

Momaphana februalis (200) pl. ci f. 15, *brillians* (201) f. 16, HAMPSON Cat. Lep. phal. **6**.

Naenia randa Trinidad, *sabrella* Brazil, **spp. n.**, SCHAU (98) Washington U. S. Nation. Mus. Proc. **30**.

Neogalea **gen. n.** *Cucullianæ* (7), *braziliensis* **sp. n.** Rio Janeiro (8), HAMPSON Cat. Lep. Phal. **6**.

Neohermia elisena **sp. n.** Brazil, SCHAU (121) Washington U. S. Nation. Mus. Proc. **30**.

Neumiehtis **gen. n.** for *Hadena tri-juncta* Walk., HAMPSON (298) Cat. Lep. phal. **6**.

Niectas paulosa **sp. n.** Brazil, SCHAU (132) Washington U. S. Nation. Mus. Proc. **30**.

Noctoa **gen. n.** near *Cirrhophanus*, *plagiata*, (13), *virulosa* (14), Arizona, **spp. n.**, SMITH New York J. Ent. Soc. **14**.

Noctua monteclara **sp. n.** California, SMITH (10) T.c.

Nodaria renota Sumatra, SWINHOE (411) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Nonagria inferna **sp. n.** Brazil, SCHAU (101) Washington U. S. Nation. Mus. Proc. **30**.

Nycteyia **gen. n.** type *Bombycia persimilis* Hamps., *plagiogramma* **sp. n.** India, HAMPSON (299) Cat. Lep. phal. **6**.

Nyctipao dentifascia obscura subsp. n., BETHUNE-BAKER (250) Nov. Zool. Tring **13**.

Ocalaria **gen. n.**, *guarana* **sp. n.** Brazil, SCHAU (132) Washington U. S. Nation. Mus. Proc. **30**.

Oeththophora turneri New Guinea, BETHUNE-BAKER (220) Nov. Zool. Tring **13**, **sp. n.**

Oligia fuscoma **sp. n.** Brazil, SCHAU (102) Washington U. S. Nation. Mus. Proc. **30**.

Omphalophana **gen. n.** type *Noctua antirrhini* Hüb., *O. serrafula* Staud. pl. xcix f. 7, HAMPSON (109) Cat. Lep. phal. **6**.

Omphaloseelis **gen. n.** for *Noctua lunosa* Haw., HAMPSON (469) T.c.

Omphis anastomosalis, early stages, SWEZEY (76) Honolulu Proc. Hawai. ent. Soc. **1**.

Oncoenemis punctilinea Arizona (170) pl. c f. 10, *poliochroa*, Canada (175) pl. c f. 20, **spp. n.**; *O. mirificalis* (148) pl. civ f. 1, *dayi* (149) pl. xcix f. 13, *hayesi* f. 14, *regina* f. 15, (150), *enta* f. 16, *corusea* pl. civ f. 2, *exemplaris* pl. xcix f. 17, (151), *albifasciata* **nom. n.** for *fasciatus* Sm. (152) f. 18, *melantho* pl. civ f. 3, *pudorata* pl. xcix f. 19, (153), *tenuifascia* (154) f. 20, *balteata* f. 21, *terminalis* f. 22, (155), *iricolor* (156) f. 23, *levis* f. 24, *simplex* f. 25, (157), *saundersiana* (158) f. 26, *pernotata* f. 27, *campicola* f. 28, (159), *fasciata* (160) f. 29, *occata* (162) f. 30, *viriditincta* f. 31, *laticosta* f. 32, (161), *angusta* pl. c f. 1, *flagrantis* f. 2, (165), *glemyi* f. 3, *riparia* f. 4, (166), *cibalis* (167) f. 5, *melalutca* (168) f. 6, *chorda* f. 7, *rosea* f. 8, (169), *simplicia* (170) f. 9, *baeri* f. 11, *homogena* f. 12, (171), *pikono* f. 13, *umbri-*

fascia f. 14, *atrifasciata* f. 15, (172), *barnesi* f. 16, *figurata* f. 17, (173), *major* f. 18, *ciliata* f. 19, (174), *colorado* (175) f. 21, *extranea* f. 22, *chandleri* f. 23, (176), *tetrops* (177) f. 24, *griseicollis* f. 32, *nigrocaput* f. 25, *atricolaris* f. 26, (178), *polingi* (516) pl. cviii f. 3; HAMPSON Cat. Lep. phal. 6.

Ophideres dinawa New Guinea, BETHUNE-BAKER (269) Nov. Zool. Tring 13, sp. n.—*O. fullonica*, at sea; FLETCHER (202) *Spolia zeylan.* 3.—*O. lunaris* life-history, CRALLAN (176–180) *Dorchester Proc. Dorset Nat. Hist. F. Cl.* 37.

Oph'sma tropicalis, in Philadelphia, SKINNER Ent. News 17 (213).

Ophiusa kebea (255), *lilacea*, *subumbra*, *ckeikei*, (256), *serratilinea*, *dentilinea*, *acutissima*, (257), *subacuta*, *insignifica*, *vulgaris*, (258), *medioalbata*, *sublutea*, *kenricki*, (259). New Guinea, spp. n.; *O. pallida subplaga* subsp. n. (260); BETHUNE-BAKER Nov. Zool. Tring 13.

Opsigalea gen. n. for *Nystalea ocellata* Walk., HAMPSON (84) Cat. Lep. phal. 6.

Orthodea gigas Arizona, SMITH (230) *Canad. Entomol.* 38, sp. n.

Orthogramma ferogia (115), *hermesia* (116), Brazil, spp. n., SCHAUS Washington U. S. Nation. Mus. Proc. 30.

Oruza dinawa, *aroa*, *variegata*, *unipunctata*, New Guinea, BETHUNE-BAKER (215) Nov. Zool. Tring 13, spp. n.

Oxaenamus indentifascia Khasia hills, SWINHOE (283) *Ann. Mag. Nat. Hist.* 17, sp. n.

Pachnobia rubricosa var. n. *arctica* SCHNEIDER Tromso Mus. Aarsh. 28 (118).

Pachypolia himalayensis Sikkim, HAMPSON (312) Cat. Lep. phal. 6, sp. n.

Palindia argentilinea sp. n. Brazil, SCHAUS (110) Washington U. S. Nation. Mus. Proc. 30.

Palpangula straminea Tunis, BANG-HAAS (135) *D. ent. Zs. Iris* 19, sp. n.

Pangrapta pratti (276), *aroa* (277), New Guinea, BETHUNE-BAKER Nov. Zool. Tring 13, spp. n.

Panilla aroa New Guinea, BETHUNE-BAKER (251) T.c., sp. n.

Paragonitis gen. n. near *Pseudogonitis*, (238), *strigoercnulata* sp. n. New Guinea (239), BETHUNE-BAKER T.c.

Paracarea gen. n. near *Carea* (245), *rubiginea* sp. n. New Guinea (246), BETHUNE-BAKER T.c.

Paragarista gen. n. near *Cylcodes*, *albostrata* sp. n. New Guinea, BETHUNE-BAKER (255) T.c.

Parelydna gen. n. near *Pseudelydna*, (241), *mirabilis* sp. n. New Guinea (242) and including *Pseudelydna cyanea* Snell., BETHUNE-BAKER T.c.

Parepisparis gen. n. near *Episparis*, *crenulata* sp. n. New Guinea, BETHUNE-BAKER (269) T.c.

Palthis gnoma, *berthalis*, Brazil, (128), *calcalis* Mexico (129), spp. n., SCHAUS Washington U. S. Nation. Mus. Proc. 30.

Penicillaria meeki, *dinawa*, New Guinea, BETHUNE-BAKER (231) Nov. Zool. Tring 13, spp. n.

Perciana violescens Travancore and Bali, *obscura* Ceylon, HAMPSON (472) *Bombay J. Nat. Hist. Soc.* 17, spp. n.—*P. bistrigata*, *meeki*, New Guinea, BETHUNE-BAKER (206) Nov. Zool. Tring 13, spp. n.

Perigea dinawa, *aroana*, New Guinea, BETHUNE-BAKER (194) T.c., spp. n.

Perigea charada Mexico, *cenola*, *seecora*, Brazil, spp. n., SCHAUS (100) Washington U. S. Nation. Mus. Proc. 30.

Perigonica punctilinea Arizona, SMITH (233) *Canad. Entomol.* 38, sp. n.

Perigrapha cincta var. n. *centralasiae*, BARTEL *Insektenbörse* 23 (63).

Peteroma gen. n., *lignea* sp. n. Venezuela, SCHAUS (113) Washington U. S. Nation. Mus. Proc. 30.

Phaeochlaena euprea sp. n. Brazil, SCHAUS (110) Washington U. S. Nation. Mus. Proc. 30.

Phanaspa ochracea (215), *rubra*, *punctata*, *dinawa*, (216), New Guinea, BETHUNE-BAKER Nov. Zool. Tring 13, spp. n.

Phibromia gen. n., *narceta* sp. n. Brazil, SCHAUS (106) Washington U. S. Nation. Mus. Proc. 30.

Phiprosopus hypenoides sp. n. Brazil, SCHAUS (108) Washington U. S. Nation. Mus. Proc. 30.

Phoebophilus sajanus sp. n. (but in note = *Hadena decipiens* Alph.) pl. v

f. 8 (133), BANG-HAAS D. ent. Zs. Iris **19**.

Physetica hudsoni sp. n. N. Zealand, HOWES (510) pl. xlv f. 1 Wellington Trans. N. Zeal. Inst. **38**.

Plasmaticus gen. n. near *Platyja*, *angulata* sp. n. New Guinea, BETHUNE-BAKER (268) Nov. Zool. Tring **13**.

Platyja argenteopunctata, *porphyrodes*, *pratti*, New Guinea, BETHUNE-BAKER (267) T.c., spp. n.

Pleroma conserta pl. ciii f. 18, *bonitula* f. 19, (296), *cinerea* (297) f. 20, HAMPSON Cat. Lep. phal. **6**.

Plusia rhodochrysa Ile Maurice, JOANNIS (171) pl. ix f. 3 Paris Ann. Soc. ent. **75**, sp. n.—*P. kebea*, *dinara*, *ckeikei*, *babooni*, New Guinea, BETHUNE-BAKER (270) Nov. Zool. Tring **13**, spp. n.—*P. caudata* sp. n. Mexico, SCHAU (105) Washington U. S. Nation. Mus. Proc. **30**.—*P. hochewarthi* var. n. *alaica*, GALVAGNI (82) Wien Verh. Zool.-bot. Ges. 1906.—*P. ni*, Zucht, VOLKER Ent. Zs. Guben **20** (13).—*P. gamma*, *festucae*, *interrogationis*, *variabilis*, abb.; A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (521-522).—*P. gamma*, food-plant, FRITSCHE Insektenbörse Leipzig **23** (144, 148).—Convergenz-Erscheinungen zwischen den Raupen von *Plusia C aureum* und *Notodonta ziczac*, BERGNER Zs. wiss. Insektenbiol. Husum **2** 1906 (237-246, 265-276) 1 Taf.

Polia altaica Centr.-Altai, BANG-HAAS (134) D. ent. Zs. Iris **19**, sp. n.—*P. (Mamestra) retrusa* sp. n. Kuku-Noor, PÜNGELER D. ent. Zs. Iris **19** (91).—*P. pentheri* Asia minor, REBEL (201) Wien. Ann. Nat. Hist. Hofmus. **20**, sp. n.

Polychrisia kebeana New Guinea, BETHUNE-BAKER (271) Nov. Zool. Tring **13**, sp. n.

Polydesma pratti (250), *brunneistriga* (251), New Guinea, BETHUNE-BAKER T.c. **13**, spp. n.—*P. nigrocyanca* Ile Maurice, JOANNIS (172) pl. ix f. 4 Paris Ann. Soc. ent. **75**, sp. n.

Prodenia littoralis Egypt, WILLCOCKS Cairo Yrbk. Khed. Agric. Soc. **1905** (15-56) pl. i.

Protagrotis rufalis (191), *noraguincensis* (192), New Guinea, BETHUNE-BAKER Nov. Zool. Tring **13**, spp. n.

Protophana gen. n. type *Herrichia cervina* Edw., HAMPSON (121) Cat. Lep. phal. **6**.

Psaphida grotei (208) pl. ci f. 18, *thaxteriana* (209) f. 19, HAMPSON T.c.

Psectraglaea gen. n. type *Glaea carnosa* Gr., *olirata* pl. evi f. 14, HAMPSON (139) T.c.

Pseudacidalia unilineata New Guinea, BETHUNE-BAKER (216) Nov. Zool. Tring **13**, sp. n.

Pseudanarta crocea (194) pl. ci f. 9, *singula* f. 10, *flavidens* f. 11, (195), *falcata* (196) f. 12, HAMPSON Cat. Lep. phal. **6**.

Pseudelydna cyanea cf. *Parelydna*.

Pseudodeltoidea gen. n. *Focillinae*, *aroca* sp. n. New Guinea, BETHUNE-BAKER Nov. Zool. Tring **13**.

Pseudogonites pratti New Guinea, BETHUNE-BAKER (238) T.c., sp. n.

Pseudozalissa gen. n. near *Hypocala*, *bella* sp. n. New Guinea, BETHUNE-BAKER (250) T.c.

Pseudophia wiskotti pl. x figs. 11 and 12, WISKOTT (331) D. ent. Zs. Iris **18**.

Pseudophyx gen. n. near *Ophiusa*, *pratti* sp. n. New Guinea, BETHUNE-BAKER (260) Nov. Zool. Tring **13**.

Pseudorthosia variabilis var. n. *pallidior*, COCKERELL Ent. News **17** 1906 (204).

Raparna trigramma Sydney, TURNER (122) Adelaide S. Austr. Trans. R. Soc. **30**, sp. n.

Rectangulipalpus gen. n. *Focillinae*, (286), *meeki* sp. n. New Guinea (287), BETHUNE-BAKER Nov. Zool. Tring **13**.

Renia nutsoni Arizona, SMITH (237) Canad. Entomol. **38**, sp. n.—*R. ordenalis*, *cacalis*, (127), Brazil, *bipunctalis* Mexico (128), spp. n., SCHAU Washington U. S. Nation. Mus. Proc. **30**.

Reticulana gen. n. *Acontiinae*, *costilinea* sp. n. New Guinea, BETHUNE-BAKER (205) Nov. Zool. Tring **13**.

Rhesena jalapena, *nezeila*, Mexico, *rubromarginata* hab. ?, spp. n., SCHAU (107) Washington U. S. Nation. Mus. Proc. **30**.

Rhescipha snowi sp. n. Texas, SKINNER (95) Ent. News **17**.

Rhizotype **gen. n.** type *Bombyx flammea* Esp. (373); *remota* pl. cv f. 1, *poliorhiza* f. 2, (376), *mongolica* f. 3, *subdetersa* f. 4, (377), *curva* (378) f. 5; HAMPSON Cat. Lep. phal. 6.

Rhodochlaena **gen. n.** type *Dianthoe-cia botonga* Feld., HAMPSON (131) T.c.

Rhosologia pallida **sp. n.** Brazil, SCHAU (124) Washington U. S. Nation. Mus. Proc. 30.

Rhynchaglaea **gen. n.** for *Xylophasia scitula* Butl., HAMPSON (435) Cat. Lep. phal. 6.

Risoba delicata, *viridata*, *kebea*, (233), *avola*, *olivens*, *grisea*, (234), *pratti* (235), New Guinea, BETHUNE-BAKER Nov. Zool. Tring 13, **spp. n.**

Rivula aroa, *meeki*, New Guinea, BETHUNE-BAKER (211) T.c., **spp. n.**

Sadarsa purpurascens New Guinea, BETHUNE-BAKER (235) T.c., **sp. n.**

Sarrothripa mauritia Ile Maurice, JOANNIS (174) pl. ix f. 6 Paris Ann. Soc. ent. 75, **sp. n.**—*S. aroa* (224), *brunnei-costa*, *arenosa*, *kebea*, *avola*, (225), New Guinea, BETHUNE-BAKER Nov. Zool. Tring 13, **spp. n.**—*S. bacopsis* Australia, TURNER (121) Adelaide S. Aust. Trans. R. Soc. 30, **sp. n.**

Savara amisa Sumatra, SWINHOE Ann. Mag. Nat. Hist. 17, **sp. n.**

Schazama **gen. n.** (108), *angustipennis* **sp. n.** Brazil, SCHAU (109), Washington U. S. Nation. Mus. Proc. 30.

Schinia macroptica, *biforma*, (21), *olivacea*, *ferricasta*, (22), *crota* (23), *pallieincta*, *tobia*, (24), *accessa* (25), *alensa*, *illustra*, (26), *megarena* (27), SMITH New York, J. Ent. Soc. 14, **spp. n.**

Scopelosoma satellitia, Variabilität, Teratologie, SCHULZ Wien JahrBer. Entom. Ver. 16 (36–37).

Scotogramma (Mamestra) segnis **sp. n.** Lob-Noor, PÜNGELER D. ent. Zs. Iris 19 (90).

Semiphora bastula (102), *punctula* (103), Brazil, **spp. n.**, SCHAU Washington U. S. Nation. Mus. Proc. 30.

Seneratia albopunctata New Guinea, BETHUNE-BAKER (272), Nov. Zool. Tring 13, **sp. n.**

Setagrotis dolens British Columbia, SMITH (226) Canad. Entomol. 38, **sp. n.**

Sinariola **gen. n.** near *Cosmophila*, *ougarra*, *rufa*, **spp. n.** New Guinea, BETHUNE-BAKER Nov. Zool. Tring 13.

Sorygaza acutalis **sp. n.** Brazil, SCHAU (121) Washington U. S. Nation. Mus. Proc. 30.

Sphingiforma **gen. n.** near *Capotena*, *pratti* **sp. n.** New Guinea, BETHUNE-BAKER (241) Nov. Zool. Tring 13.

Spintherops lia **sp. n.** Turkestan, PÜNGELER D. ent. Zs. Iris 19 (97).

Stictoptera ckeikei, *rufa*, *meeki*, New Guinea, BETHUNE-BAKER (235) Nov. Zool. Tring 13, **spp. n.**

Sympistis celloggi (415) pl. cv f. 32, HAMPSON Cat. Lep. phal. 6.

Sypna gluta Sumatra, SWINHOE (409) Ann. Mag. Nat. Hist. 18, **sp. n.**—*S. angulilinea*, *bella*, New Guinea, BETHUNE-BAKER (247) Nov. Zool. Tring 13, **spp. n.**

Taeniocampa naolina **sp. n.** Brazil, SCHAU (104) Washington U. S. Nation. Mus. Proc. 30.—*T. fractura* (232), *indra* (233), Arizona, SMITH Canad. Entomol. 38, **sp. n.**

Tarache plumbicula Ceylon (475), *anormalis* S. India (474), HAMPSON Bombay J. Nat. Hist. Soc. 17, **spp. n.**—*T. kebea* New Guinea, BETHUNE-BAKER (208) Nov. Zool. Tring 13, **sp. n.**

Targalla catephioides ckeikei subsp. n. *pratti* **sp. n.** New Guinea, BETHUNE-BAKER (227) T.c.

Tathodelta aroensis New Guinea, BETHUNE-BAKER (212) T.c., **sp. n.**

Thalpochares hutsoni (28), *catalina* (29), Arizona, SMITH New York J. Ent. Soc. 14, **spp. n.**

Thoracophotos **gen. n.** near *Ophiusa*, *ckeikei* **sp. n.** New Guinea, BETHUNE-BAKER (261) Nov. Zool. Tring 13.

Thyreion stena **sp. n.** Colorado, SMITH (15) New York J. Ent. Soc. 14.

Thyria aroa New Guinea, BETHUNE-BAKER (119) Nov. Zool. Tring 13, **sp. n.**

Tibioecillaria **gen. n.** near *Penicillaria*, *pratti*, (231), *aureiplaga*, *dinavensis*, (232), **spp. n.**, New Guinea, BETHUNE-BAKER T.c.

Tiracola plagiata larva, PIEPERS (35) 's Gravenhage Tijdschr. Ent. 49.

Tornosimus **gen. n.** *Focillinae*, *niger* **sp. n.** New Guinea, BETHUNE-BAKER (286) Nov. Zool. Tring **13**.

Tortricodes paulensis (122), *dulcena* (123), Brazil, **spp. n.**, SCHAUS Washington U. S. Nation. Mus. Proc. **30**.

Trichoridia **gen. n.** (400) type *Crymodes herchatra* Swinh. (406) pl. cv f. 27, *albiluna* (404) f. 24, *euprescens* (405) f. 25, **spp. n.**, Tibet; *fulminea* (401) f. 19, *endroma* (402) f. 20, *hampsoni* f. 21, *dentata* f. 22, (403), *canosparsa* (404) f. 23, *sichimensis* (405) f. 26; HAMPSON Cat. Lep. phal. **6**.

Trigonophora grumi u. *flammea* Genitalarmatur und Systematisches., PETERSEN St. Peterburg Hor. Soc. Ent. Ross. **37** (347-351) Taf.

Trileuca ochracea **sp. n.** Mexico, SCHAUS (106) Washington U. S. Nation. Mus. Proc. **30**.

Triommatodes angulata **sp. n.** Guiana, SCHAUS (114) Washington U. S. Nation. Mus. Proc. **30**.

Tyrissa carola **sp. n.** Brazil, SCHAUS (120) Washington U. S. Nation. Mus. Proc. **30**.

Ursogastra **gen. n.** near *Eriopyga* (12), *lunata* **sp. n.** Arizona (13), SMITH New York J. Ent. Soc. **14**.

Valeria icamba (352) pl. civ f. 19, *sauberi* (353) f. 20, *pardaria* (354) f. 28, HAMPSON Cat. Lep. phal. **6**.

Vittapressa **gen. n.** *Acontiinae*, *rufiplaga* **sp. n.** New Guinea, BETHUNE-BAKER (206) Nov. Zool. Tring **13**.

Westermannia longiplaga New Guinea, BETHUNE-BAKER (218) T.c., **sp. n.**

Xantholeuca sericea (442) pl. cvii f. 29, HAMPSON Cat. Lep. phal. **6**.

Xanthoptera rubrifusa **sp. n.** Ceylon, HAMPSON (475) Bombay J. Nat. Hist. Soc. **17**.—*X. dinawa* New Guinea, BETHUNE-BAKER (210) Nov. Zool. Tring **13**, **sp. n.**

Xylina rosinae **sp. n.** Amur, PÜNGLER D. ent. Zs. Iris **19** (95).—*X. nupera* (280) pl. ciii f. 10, *currimacula* (282) f. 11, *brillians* (283) f. 12, *cineritia* f. 13, *brucei* f. 14, (284), HAMPSON, Cat. Lep. phal. **6**.

Xylinissa **gen. n.** type *Xylina cossoides* Butl. (355); *lignitis* pl. civ f. 22, *oniroe* (356) f. 23; HAMPSON Cat. Lep. Phal. **6**.

—*Xylinissa lignitis* **sp. n.** Bogotá, SCHAUS (97) Washington U. S. Nation. Mus. Proc. **30**.

Xylotype **gen. n.** for *Xylina capax* Gr., HAMPSON (288) T.c.

Yula **gen. n.**, *novaeguineae* **sp. n.** New Guinea, BETHUNE-BAKER (193) Nov. Zool. Tring **13**.

Zagira bicolora, *pratti*, New Guinea, BETHUNE-BAKER (213) T.c., **spp. n.**

Zalissa ekeikei, *kebeensis*, New Guinea, BETHUNE-BAKER (211) T.c., **spp. n.**

Zethes lilacea, *fuscomarginata*, (272), *aroa*, *griseistriga*, *meekei*, (273), *nigra*, *tessellata*, *ochreistriga*, (274), *apicebrumca*, *multilinea*, *Z. (Cultripalpa) ekeikei*, *rufalia*, (275), *albopunctata*, *bella*, *rubraria*, (276), New Guinea, **spp. n.**; *Z. megaspila* Warr. ♀ (273), *albisigillata* Warr. ♀ (275); BETHUNE-BAKER. T.c.

GEOMETRIDAE

(incl. *Uraniidae* & *Epiplemidae*).

Progressive melanism, DONCASTER Ent. Rec. 1906 (165-168 etc. etc.).

Abraxas grossulariata, varieties, COCKERELL Nature **73** (341); ab., A. AIGNER Ann. Hist.-Nat. Hung. **4** (526); var. *lacticolor* breeding experiments, DONCASTER & RAYNOR London Proc. Zool. Soc. 1906 (129-133) pl. viii figs. 4, 5.

Acibdela **gen. n.** type *Nearcha alba* Swinh., TURNER (130) Adelaide S. Aust. Trans. R. Soc. **30**.

Acidalia euphorbiata Nice, BALESTRE (80) Paris Bull. Soc. entom. **1906**, **sp. n.**—*A. libycata* **sp. n.** Algier, BARTEL (2) Ent. Zs. Guben **20**.—*A. flaccidaria* ab., A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (524).—*A. subalbaria* Pack. cf. *Diastictis*.

Acollesis semialba W. Africa, SWINHOE (555) Ann. Mag. Nat. Hist. ser. **7** **17**, **sp. n.**

Acolutha canioستا New Guinea, WARREN (106) Nov. Zool. **13**, **sp. n.**

Aerotomodes unicolor **sp. n.** Brazil, WARREN (533) Washington U. S. Nation. Mus. Proc. **30**.

Actenochroma subochracea Warr.= (*Pseudopterna clacaria* Hampson.); SWINHOE (285) Ann. Mag. Nat. Hist. **17**.

Adeixis Warr. = (*Paragyrtis* Meyr.), TURNER (130) Adelaide S. Aust. Trans. R. Soc. **30**.

Adeta confusa New Guinea, WARREN (113) Nov. Zool. **13**, sp. n.

Alcis concinna (139), *irrufata* (140), New Guinea, WARREN T.c., **spp. n.**—*A. liehenaria* sp. n. Arizona, PEARSALL (215) Brooklyn Mus. Bull. **1**.—*A. haydenata*, taxonomy, PEARSALL (179) Canad. Entomol. (38).

Almodes benesignata Argentina, DOGNIN (106) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Amphiasta gen. n. *Monocteniinae*, *lygaea* sp. n. Australia, TURNER (132) Adelaide S. Aust. Trans. R. Soc. **30**.

Amphidasia betularia ab., A. AIGNER Ann. Hist.-Nat. Hung. **4** (527).

Anapalta ruficarpus Tucuman, DOGNIN (205) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Angerona prunaria n. var. *sordidata* breeding experiments, DONCASTER London Proc. Zool. Soc. 1906 (125-128) pl. viii figs. 1-3; broods and varieties PICKETT (59-61) London Trans. City Nat. Hist. Soc. 1905; gynandromorph, PICKETT (293) Ent. Rec. 1906.

Aniserpates fasciata New Guinea, WARREN (114) Nov. Zool. **13**, sp. n.

Anisocolpia arsensis to *Anthierax*, WARREN (109) T.c.

Anisodes abruptaria Guiana (427), with var. *atridiscata* Peru, *delineata* Guiana, (428), *flavicornis* Peru, *flavipuncta*, (429), *leucaniata*, Guiana, *potreria* Jalapa, (430), *stricticata* Mexico, *subvirescens* Guiana, *terrens* Jalapa, (431), **spp. n.**, WARREN Washington U. S. Nation. Mus. Proc. **30**.—*A. maroniensis* (109), *inquinata* (110), Guiana, DOGNIN Bruxelles Ann. Soc. ent. Belgique **50**, **spp. n.**

Anisogamia albifusa (77), *albiseriata*, *batis*, *commaculata*, pl. x f. 11 (78), *decorata* (79), *flavilinea* with ab. *albinata*, *grisconotata*, (80), *iridescens*, *scintillans*, (81), *seminivea*, *triseriata*, *viridissima*, (82), New Guinea; WARREN Nov. Zool. Tring **13**, **spp. n.**

Anophylla obeliscata sp. n. Guiana, WARREN (414) Washington U. S. Nation. Mus. Proc. **30**.

Anticlea semiflava New Guinea, WARREN (93) Nov. Zool. Tring **13**, sp. n.

Antiplecta caesia (399) Mexico, *eine-rascens*, Cayenne, *nigripicta*, (400), *triangularis* (401), Mexico, WARREN Washington U. S. Nation. Mus. Proc. **30**, **spp. n.**

Aphanophleps gen. n. *Sterrhinae*, *rinosaria*, (433), *vulpina* (434), Guiana, **spp. n.**, WARREN T.c.

Aplodes hudsonaria Alberta, TAYLOR (206) Canad. Entomol. **38**, sp. n.—*A. latirosaria* sp. n. Utah, PEARSALL (214) Brooklyn Mus. Bull. **1**.

Ardonis dentifera New Guinea, WARREN (114) Nov. Zool. **13**, sp. n.

Arycanda commixta, *fulviradiata*, New Guinea, WARREN (138) pl. x f. 9 T.c., **spp. n.**

Asaphodes parora pl. xlv f. 6 (509), HOWES Wellington Trans. N. Zeal. Inst. **38**.

Aselodes hebetior sp. n. Guiana, WARREN (432) Washington U. S. Nation. Mus. Proc. **30**.

Asestra lineata sp. n. Peru, WARREN (534) T.c.

Asthenia argentipuncta subditaria, New Guinea, WARREN (107) Nov. Zool. **13**, **spp. n.**

Astyochia signata sp. n. Peru (500), WARREN Washington U. S. Nation. Mus. Proc. **30**.

Atmoceras gen. n. *Ascotinae*, *plumosa* sp. n. New Guinea, WARREN (140) Nov. Zool. Tring **13**.

Atopodes gen. n. near *Rhinodia* (534), *singularis* sp. n. Brazil (535), WARREN Washington U. S. Nation. Mus. Proc. **30**.

Atyria cruciata sp. n. Bolivia, WARREN (409) T.c.

Atyriodos figulatum Peru, DOGNIN (107) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Aventiopsis gen. n. *Ennominae* (535), *ochrea* sp. n. Brazil (536), WARREN Washington U. S. Nation. Mus. Proc. **30**.

Azelinopsis amaura New Guinea, WARREN (156) Nov. Zool. Tring **13**, sp. n.

Bassania amethystata var. n. *extremistata*, WARREN (536) Washington U. S. Nation. Mus. Proc. **30**.

Berberodes cassiteris (493), *B. ? delicata*, *simplex*, (494), *violacea* (495), **spp. n.**, Guiana, WARREN T.c.

Boarmia crepuscularia ab., A. AIGNER Ann. Hist.-Nat. Hung. **4** (527).—*B. gemmaria* var. n. *rebeli* ♂ Ungarn., A. AIGNER Rovart. L. **13** (69-75).

Bombia **gen. n.** near *Heterusia*, *protuberans* **sp. n.** Peru, WARREN (468) Washington D.C. U. S. Nation. Mus. Proc. **30**.

Borbacha carneata New Guinea, WARREN (134) Nov. Zool. **13**, **sp. n.**

Brephos puella ab., A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (524).

Bronchelia benepicta, *mareida*, Brazil, **spp. n.**, WARREN (504) Washington U. S. Nation. Mus. Proc. **30**.

Bryoptera albiplaga Guiana, *nigri-lineata* Ecuador, **spp. n.**, WARREN (505) T.c.

Burbada radiacata Warr. abb. n. *flavifrons* and *carens* (138); *relata* New Guinea **sp. n.** (139), WARREN Nov. Zool. **13**.

Caberodes ? aspilataria Mexico, *nexilinea* Brazil, **spp. n.**, WARREN (537) Washington U. S. Nation. Mus. Proc. **30**.

Cacolyces **gen. n.** for *Lyces plagifera*, WARREN (409) T.c.

Callizzia certiorata **sp. n.** Arizona, PEARSALL (220) Brooklyn Mus. Bull. **1**.

Cambogia abbreviata Peru, DOGNIN (112) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**—*C. cancellata* **sp. n.** Peru, WARREN (467) Washington, D.C. U. S. Nation. Mus. Proc. **30**.

Camclopteryx **gen. n.** near *Tephroclystia*, *multicolor* **sp. n.** Ile Maurice, pl. ix f. 11, JOANNIS (180) Paris Ann. Soc. ent. **75**.

Camptogramma fluviala abb. n., MATHEW (281-283) Ent. Rec. 1906.

Cannegara himerodes **sp. n.** Mexico, WARREN (538) Washington U. S. Nation. Mus. Proc. **30**.

Capnophylla albiceps Brazil **sp. n.**, WARREN (401) T.c.

Caripeta eriminosa **sp. n.** N. America, SWETT New York J. Ent. Soc. **14** (128-129); *C. eriminosa* **sp. n.** = (*C. angustiorata* Pack. nec Wlk.) SWETT Psyche **13** (103).

Carpitima **gen. n.** *Hydriomenae*, *hydriomenata* **sp. n.** Arizona, PEARSALL (210) Brooklyn Mus. Bull. **1**.

Celonoptera mirificaria Id. = (*Sparta paradoxaria* Stgr., DAMPF D. ent. Zs. Iris Berlin **19** (42).

Chaetolopha ? antennata (93), *C. flexilinea*, *fulgurata*, (94), *pictipennis*, *ruptistriga*, *splendens*, (95), *tristriata* (96), New Guinea; WARREN Nov. Zool. Tring **13**, **spp. n.**

Chlorochlamys Hulst emend. (213), *C. volantaria* **sp. n.** Arizona (214), PEARSALL Brooklyn Mus. Bull. **1**.

Chlorochroma discata, *flavilimes*, *geminipuncta*, (83), *laticostata*, *latistriga* pl. x f. 6, *obsoleta*, (84), *punctilligera*, *ruficosta*, *rufistriga*, (85), *vestigata* (86), New Guinea; WARREN Nov. Zool. Tring **13**, **spp. n.**—*C. citrolimbata* Gn. = (*inchoata* Walk. = *Iodis illidgei* Luc.), TURNER (127) Adelaide S. Aust. Trans. R. Soc. **30**.

Chloroclystis exilipicta (176) pl. ix f. 8, *chlamydata* (178) f. 9, Ile Maurice, JOANNIS Paris Ann. Soc. ent. **75**, **spp. n.**—*C. cuneilinea* (114), *semiscripta* (115), New Guinea, WARREN Nov. Zool. **13**, **spp. n.**—*C. rectangulata*, sex characters, MEIXNER Zs. wiss. Insektenbiol. **2** (337-344, 376-381).

Chogada compectinata, *semidiscata*, New Guinea, WARREN (141) Nov. Zool. Tring **13**, **sp. n.**

Cidaria byssata var. n. *tundraceata*, POPPIUS (6) f. 3 Helsingfors Acta Soc. Fauna Fl. Fenn. **28** No. 3.—(*C. mediorittaria* Moore = (*Somatina azonaria* Oberth.); SWINHOE (285) Ann. Mag. Nat. Hist. **17**.

Cirrhosoma curvata **sp. n.** Mexico (495), WARREN Washington U. S. Nation. Mus. Proc. **30**.

Coelurotricha **gen. n.** near *Coelura*, *curvilinea* **sp. n.** Panama, WARREN (402) T.c.

Coenocalpe angustipennis (96), *hirtirena*, *semirufata*, *ustimacula*, (97), *xylinata* (98), New Guinea, WARREN Nov. Zool. Tring **13**, **spp. n.**

Coenocharis ignararia **sp. n.** Arizona, PEARSELL (216) Brooklyn Mus. Bull. 1.

Collix exemplata New Guinea, WARREN (98) Nov. Zool. Tring 13, **sp. n.**

Comostola flarifimbria, *rufimargo*, New Guinea, WARREN (86) T.c., **spp. n.**

Comostolodes castaneata, *viridifimbria*, New Guinea, WARREN (87) T.c., **spp. n.**

Comibaena flavicoma **sp. n.** Guiana, WARREN (415) Washington U. S. Nation. Mus. Proc. 30.

Cophopoda **gen. n.** near *Trochiodes*, *pyralidimima* **sp. n.** Parana, WARREN (471) T.c.

Cosymbia lumenaria, life-history, DYAR Psyche 13 (93-94).

Crasiologia dispar ab. n. *simplex*; *C. ? fumipennis* **sp. n.** New Guinea; WARREN (99) Nov. Zool. Tring 13.

Craspedosis costimacula New Guinea, WARREN (134) T.c., **sp. n.**—*C. desmiata* R. & J. pl. iii f. 6, JORDAN (760) Nov. Zool. Tring 13.

Cremodes concomitans, *curta*, (435), *fuscifrons* (436) Cuba **spp. n.**, WARREN Washington U. S. Nation. Mus. Proc. 30.

Crocallis elinguaris, Ei, GILLMER Ent. Zs. Guben 20 (189).—Bemerkung dazu v. E. Boyé, T.c. 1907 (258).

Crocapteryx hilaris Panama (538), *C. ? renusta* Guiana (539), **spp. n.**, WARREN Washington U. S. Nation. Mus. Proc. 30.

Crypsityla borrigaria Mexico, *ignifera*, (436), *subrubella* (437), Guiana, **spp. n.** WARREN T.c.

Cyclomia lilacina Santa Lucia (539), *strigifera*, *tumidilinea*, (540), Mexico, **spp. n.**, WARREN T.c.

Cyllopoda bipuncta Peru (409), *radiata* Brazil (410), **spp. n.**, WARREN T.c.—*C. compensata*, *brevipлага*, Peru, DOGNIN (108) Bruxelles Ann. Soc. ent. Belgique 50, **spp. n.**

Cymatophora divergens Guiana (506), *flexilinea* Mexico, *viriditinetra* Paraguay, (507), **spp. n.**, WARREN Washington U. S. Nation. Mus. Proc. 30.—*C. ? fumigrisea* Peru, DOGNIN (211) Bruxelles Ann. Soc. ent. Belgique 50, **sp. n.**—*C. matilda*, life-history, DYAR Psyche 13 (22).

Cyphura pardata New Guinea, WARREN (66) pl. x f. 5 Nov. Zool. Tring 13, **sp. n.**

Dectochilus decens (540), *tincta* (541), Mexico, **spp. n.**, WARREN Washington U. S. Nation. Mus. Proc. 30.

Deilinia odontocrossa, *glaucochroa*, Australia, TURNER (131) Adelaide S. Aust. Trans. R. Soc. 30, **spp. n.**—*J. bryantaria* Brit. Columbia, TAYLOR (402) Canad. Entomol. 38, **sp. n.**

Deinopygia conifer Guiana, *falcipennis* Mexico, (438), *horrifera*, *pereurrens*, (439), *triangulata* (440), Guiana, **spp. n.**, WARREN Washington U. S. Nation. Mus. Proc. 30.

Deptalia rubescens Guiana, DOGNIN (111) Bruxelles Ann. Soc. ent. Belgique 50, **sp. n.**

Diactinia intromissa New Guinea, WARREN (99) Nov. Zool. Tring 13, **sp. n.**

Dialephtis celata **sp. n.** Peru, WARREN (410) Washington U. S. Nation. Mus. Proc. 30.

Diastictis subalbaria (Pack. as *Acidalia*) and allies; *hulstiaris* **n. sp.** = (*subalbaria* Halst nec Pack.); TAYLOR (111, 112) Canad. Entomol. 38.

Dichromatopodia cercina Venezuela, *purpurea*, *rufimedia*, Guiana, **spp. n.**, WARREN (441) Washington U. S. Nation. Mus. Proc. 30.

Dichromodes tryclinoptila, *haematopa*, Australia, TURNER (131) Adelaide S. Aust. Trans. R. Soc. 30, **spp. n.**

Dicyclodes **gen. n.** *Oenochrominae* (75), *hieroglyphica* **sp. n.** New Guinea (76) pl. x f. 13, WARREN Nov. Zool. Tring 13.

Dirades corrasa, *niveicosta*, New Guinea, WARREN (68) T.c., **spp. n.**

Diradopsis alberta New Guinea, WARREN (69) T.c., **sp. n.**

Docephora fumosa Venezuela, *nudata* Peru, (472), *obscurata* Guiana (473), **spp. n.**, WARREN Washington U. S. Nation. Mus. Proc. 30.

Dolichoneura nigrinotata **sp. n.** Guiana, WARREN (407) T.c.

Drucia exerescens (415), *quinque-maculata*, *semispureata* (416), Guiana, **spp. n.**, WARREN T.c.

Dyscia serena Buenos Aires, DOGNIN (118) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Dysephyra albidiscata sp. n., with var. n. *nigridiscata* Guiana, WARREN (442) Washington U. S. Nation. Mus. Proc. **30**.

Ellopia (?) *dumonti* la Granja, MABILLE (32) pl. iii f. 2 Paris Ann. Soc. ent. **75**, sp. n.—*E. prosapiaria* var. *prasinaria* ab., A. AIGNER Ann. Hist.-Nat Hung. **4** (526).

Emmiltis blandula Guiana (442), *omissa* Bolivia, *tricincta* Brazil, (443), spp. n., WARREN Washington U. S. Nation. Mus. Proc. **30**.

Enemera simularia sp. n. California, TAYLOR (190) Ent. News **17**, but is *Euemera sim.* teste SWETT T.c. (349).

Entomopetal bipars sp. n. Guiana, WARREN (542) Washington U. S. Nation. Mus. Proc. **30**.

Enypia packardata Brit. Columbia, TAYLOR (403) Canad. Entomol. **38**, sp. n.

Eois rotundopennata, life-history, DYAR Psyche **13** (61-62).

Epialtias morena sp. n. Brazil, WARREN (411) Washington U. S. Nation. Mus. Proc. **30**.

Epimecis virginaria, taxonomy, PEAR-SALL (179) Canad. Entomol. **38**.

Epiplema enthecaria Khasia hills, SWINHOE (284) Ann. Mag. Nat. Hist. **17**, sp. n.—*E. subflavida* Java, SWINHOE (553) T.c., sp. n.—*E. canibrunnea*, *castiata*, (69), *cinerella*, *configurata*, (70), *dealbata*, *despecta*, (71), *defecta*, *euplodes*, (72), *falcigera*, *flexifascia*, (73), *innocens*, *planimargo*, *taminata*, (74), *rialaetia* (75), New Guinea; WARREN Nov. Zool. Tring **13**, spp. n.—*E. excoria* sp. n. Mexico, WARREN (402) Washington U. S. Nation. Mus. Proc. **30**.

Epirrhoe auritacta Peru, DOGNIN (204) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Episteira delicata New Guinea, WARREN (109) Nov. Zool. **13**, sp. n.

Epitherapis gen. n. *Ennominae* (156), *stramineata* sp. n. New Guinea (157), WARREN T.c.

Eratina brunnea (468), *satellites* (469), Bolivia, spp. n., WARREN Washington U. S. Nation. Mus. Proc. **30**.

Eriopygidia euphemia Ecuador, DOGNIN (206) Ann. Soc. ent. Belgique **50**, sp. n.—*E. quadripunctata* Walk. = (*Hammaptera subrosea* Schaus) PROUT (36) Ent. Rec. 1906.

Eucestia fuscata California, GROSS-BECK (275) Canad. Entomol. **38**, sp. n.

Euchlaena effectaria, life-history, DYAR Psyche **13** (117-118).

Euchloris xuthoerania nom. n. for *Iodis submissaria* Meyr., *E. megaloptora* Low. = (*Chrysochloroma subalbida* Warr. = *E. hypoleucus* Low.) (127); *rhodocrossa*, *pisochroa*, *amphibola*, spp. n. Australia, TURNER Adelaide S. Aust. Trans. R. Soc. **30**.

Euchoeca comptaria synonymy, TAYLOR (203, 204) Canad. entomol. **38**.—*E. comptaria* Walk. synonymy (33-35); *E. exhumata* Catskill mts. sp. n. (36); PEAR-SALL Canad. Entomol. **38**.—*E. pearsalli* nom. n. for *Nomenia duodecim-lineata* Pack. part, DYAR (110) Canad. Entomol. **38**.

Euchontha castrona sp. n. Brazil, WARREN (411) Washington U. S. Nation. Mus. Proc. **30**.

Eucosmia certata ab., A. AIGNER Ann. Hist.-Nat. Mus. Nat. Hung. **4** (524).

Euerostes saturata Oran, BANG-HAAS (137) pl. v f. 18 D. ent. Zs. Iris **19**, sp. n.

Eucymatoge albieristata, *albimeda* with ab. *brunneotincta*, (115), *brunneata* (116), *constellata*, *contaminata*, *discinota*, (117), *disrupta*, *distorta*, (118), *griseata*, *lichenosa*, (119), *nigribasis* with ab. n. *mediotaeniata*, *placens*, (120), *rufilunata*, *subrubescens*, (121), New Guinea, WARREN Nov. Zool. **13**, spp. n.—*E. vancouverata* Brit. Columbia, TAYLOR (397) Canad. Entomol. **38**, sp. n.

Eudule basipuncta, Peru, *parca* Ecuador, spp. n., WARREN (466) Washington U. S. Nation. Mus. Proc. **30**.

Eumaerodes excilinea sp. n. Guiana, WARREN (414) T.c.

Eupileta ? *subcaesia* sp. n. Guiana, WARREN (521) T.c.

Eupithecia; notes and figures of palaearctic (55-67) plates i-iv; *lacteolata* Kasikoparan (56) pl. i f. 1, *ponderata* Ordubad (64) pl. i f. 13, spp. n.; DIETZE D. ent. Zs. Iris **19**.—Eier.

DRAUDT. D. ent. Zs. Iris **18** (280-320) 6 Taf.—Larvae and habits, TUTT (179-182 etc.) Ent. Rec. 1906.—*E. innotata*, allies queried, TUTT (157, 158) Ent. Rec. 1906.—*E. innotata* and *fraxinata*, DADD (259), TUTT (260), *succenturiata*, *subfulcata*, *oxydata*, DADD (261), TUTT (261); Ent. Rec. London 1906.—*E. succenturiata* varr., DIETZE (121-126) pl. iv, D. ent. Zs. Iris **19**.—*E. youngata*, Ottawa, TAYLOR (225) Ottawa Nat. **19** and (404) Canad. Entomol. **38**, **sp. n.**—*E. regina* (102), *alberta*, *data*, (103), *adornata* (104), Alberta, TAYLOR Canad. Entomol. **38**, **spp. n.**—*E. olivacea* (389), *harveyata*, *dyarata*, (390), *hanhami* (391), *bryanti* (392), *obumbrata*, *modesta*, (393), *insignificata* (394), with var.? *sublineata*, *perbrunneata* (395), British Columbia, TAYLOR Canad. Entomol. **38**, **spp. n.**—*E. bolena* **sp. n.** Arizona, TAYLOR (191) Ent. News **17**.

Eusenea semibrunnea **sp. n.** Bolivia, WARREN (541) Washington U. S. Nation. Mus. Proc. **30**.

Eustroma harveyata Brit. Columbia, TAYLOR (398) Canad. Entomol. **38**, **sp. n.**

Fidonia pratana = (*Cid. cetypta* Mab.), MABILLE (34) Paris Ann. Soc. ent. **75**.

Fulgoroidea virginalis Peru, DOGNIN (116) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**

Garaeus papuensis New Guinea, WARREN (157) Nov. Zool. Tring **13**, **sp. n.**

Gathymia cassata (403), *ochripennis* (404), Mexico, **spp. n.**, WARREN Washington U. S. Nation. Mus. Proc. **30**.

Gelasma subrufescens **sp. n.** Guiana, WARREN (417) T.c.—*G. imitans* (87), *invidens*, *spumata*, (88), New Guinea, WARREN Nov. Zool. Tring **13**, **spp. n.**

Gnophos, *Acidalia*, *Tephroclystia*, FUCHS Ent. Zs. Guben **20** (76-77).—*G. glaucinaria supinaria*, PREISSECKER (241) Wien Verh. Zool. bot. Ges. 1906.

Gonodela papuensis and varr. New Guinea, WARREN (154) Nov. Zool. Tring **13**, **sp. n.**

Gymnoseclis erassifemur New Guinea, WARREN (122) T.c., **sp. n.**

Gonodontis? subflavaria **sp. n.** Texas, PEARSALL (218) Brooklyn Mus. Bull. **1**.

Gonorthus bilineata **sp. n.** Guiana, WARREN (543) Washington U. S. Nation. Mus. Proc. **30**.

Graphipidus flavifilata Colombia, DOGNIN (113) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**

Gymnoseclis nigella Ile Maurice, JOANNIS (179) pl. ix f. 10 Paris Ann. Soc. ent. **75**, **sp. n.**

Gynopteryx gladiatoria variation and synonymy, PROUT (15, 16) London Proc. ent. Soc. 1906.

Gyostega rufimacula **sp. n.** Guiana (496), WARREN Washington U. S. Nation. Mus. Proc. **30**.

Haemalea comminuta (444), *fragmentaria* (445), *venipunctata* (446), Guiana, **spp. n.**, WARREN Washington U. S. Nation. Mus. Proc. **30**.

Hammaptera subrosea cf. *Eriopygidia quadripunctata*.—*H. subvinosa* Tucuman, DOGNIN (206) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**

Hastina viridata New Guinea, WARREN (107) Nov. Zool. **13**, **sp. n.**

Hemiphrieta **gen. n.** near *Berberodes*, *albicostata* **sp. n.** Guiana, WARREN (497) Washington U. S. Nation. Mus. Proc. **30**.

Hemipterodes **gen. n.** near *Lipomelia*, *subnigrata* **sp. n.** Guiana, WARREN (446) T.c.

Heterophyra aurata (447), *fulvescens*, Guiana, *grisea* Trinidad, *scripturata*, (448), *semibrunnea* (449), Guiana, **spp. n.**, WARREN T.c.

Heterodisca eastanea New Guinea, WARREN (157) Nov. Zool. Tring **13**, **sp. n.**

Heterolocha snoviararia Hulst to Sieya, TAYLOR (131) New York J. ent. Soc. **14**.

Heterusia subtessellata Peru, DOGNIN (113) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**

Himera pennaria ab. *obscura*, A. AIGNER Ann. Hist.-Nat. Hung. **4** (527).

Homospora rhodoseopa Low. = (*pro-crita* Turn.), TURNER (133) Adelaide S. Aust. Trans. R. Soc. **30**.

Hybernina aurantiaria Bkh. ♂ nova ab. *fumipennaria*, HELLWEGER Ent. Zs. Guben **20** (210-211).—*H. bajoria* ab. n. *kempnyaria*, GALVAGNI Wien Verh. Zool.-bot. Ges. 1906.—*H. leucophaearia* varr.,

HAVERKAMPF (158, 159) Bruxelles Ann. Soc. ent. Belgique **50**.

Hybrelia papuensis with ab. n. *dorsinotata* New Guinea, WARREN (108) Nov. Zool. **13**, sp. n.

Hydriomena autumnalis var. n. *columbiata* (399); *H. manzanita* n. sp. Brit. Columbia (400); TAYLOR Canad. Entomol. **38**.—*H. multipunctata* California (188), *magnificata* Arizona (189), TAYLOR Ent. News **17**, spp. n.—*H. violascens* (111), *obfusesces* (112), Ecuador, DOGNIN Bruxelles Ann. Soc. ent. Belgique **50**, spp. n.

Hygrochroa syringaria ab. n. *hofmanni*, SCHREIBER (58) pl. Regensburg Ber. natw. Ver. **9**.

Hymenomima exangulata, *subnigrata*, Guiana, spp. n., WARREN (508) Washington U. S. Nation. Mus. Proc. **30**.

Hypochroma purpurissa New Guinea, WARREN (77) pl. x f. 14, Nov. Zool. Tring **13**, sp. n.

Hypometalla purpurea (521) *H. ? seintillans* (522), spp. n., Guiana, WARREN Washington U.S. Nation. Mus. Proc. **30**.

Idialcis gen. n. type *Phibalapteryx jacintha* Butl., *mexicuba* sp. n. Mexico, WARREN (509) T.e.

Idiodes homophaea, *loxosticha*, Australia, TURNER (135) Adelaide S. Aust. Trans. R. Soc. **30**, spp. n.

Iodis bicolor (88), *commixta* (89), New Guinea, WARREN Nov. Zool. Tring **13**, spp. n.—*I. illidgei* cf. *Chlorochroma*, *I. submissaria* cf. *Euchloris*.

Ira albirenata sp. n. Peru, WARREN (543) Washington D.C. U.S. Nation. Mus. Proc. **30**.

Iridopsis eupepla, *fusilinea*, (510), *humilis* (511), Cuba, *invenusta* Brazil, *memor* Guiana, (512), *rufisparsa* Cuba, *transrisata* Guiana, (513), spp. n., WARREN T.c.

Iridopsis piperata Peru, DOGNIN (209) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Iulocera albinigra New Guinea, WARREN (155) Nov. Zool. Tring **13**, sp. n.

Ixala adrentaria sp. n. Arizona, PEARSALL (216) Brooklyn N.Y. Mus. Bull. **1**.

Larentia eteocretica, *lasithiotica*, Crete, REBEL (233) Wien Verh. Zool.-bot. Ges. 1906, spp. n.—*L. unangulata* var. n. *gracilaria*, *albida* Herz pl. v f. 19, BANG-HAAS (139) D. ent. Zs. Iris **19**.—*L. alaudaria*, *lugubrata*, *procellata*, *rivata*, *tristata*, abb.; A. AIGNER Ann. Hist.-Nat. Hung. **4** (524-525).—*L. tempestaria*, REBEL Wien JahrBer. Entom. Ver. **16** (53-73).—*L. picata* larval habits, GAUCKLER (102) D. ent. Zs. Iris **19**.—*L. rerberata* metamorphoses, CHÉRIÉTIEN (125, 126) Naturaliste 1906.

Lepidospora gen. n. (522) near *Hypometalla*, *lanuginosa* sp. n. Brazil (523), WARREN Washington U. S. Nation. Mus. Proc. **30**.

Lepidule sulcifera sp. n. Mexico, WARREN (467) T.c.

Leptoctenopsis leucographa Peru, DOGNIN (106) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Leptomeris subfuscata Brit. Columbia, TAYLOR (402) Canad. Entomol. **38**, sp. n.

Leuculopsis intermedia sp. n. Mexico, WARREN (501) Washington U. S. Nation. Mus. Proc. **30**.

Lipomelia semisignata Venezuela, DOGNIN (110) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.—*L. ? tristrigata* sp. n. Guiana, WARREN (450) Washington U. S. Nation. Mus. Proc. **30**.

Lissochlora sanguinipunctata Tucuman, DOGNIN (204) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Lithostege farinata, BUSSE Ent. Zs. Guben **20** 1906 (27-28).—*L. notata* Tunis pl. v f. 16, BANG-HAAS (138) D. ent. Zs. Iris **19**, sp. n.

Loboecleta gen. n. near *Cleta* (450), *translineata* sp. n. Guiana (451), WARREN Washington U. S. Nation. Mus. Proc. **30**.

Lobophora appensata var. n. *baikalensis*, BANG-HAAS (138) D. ent. Zs. Iris **19**.—*L. carpinata* var. n. *obscurata*, SCHNEIDER Tromsø Mus. Aarsh **28** (124).—*L. montanata*, PEARSALL (70 etc.) Canad. Entomol. **38**.

Lobophysa gen. n. near *Gonophaga*, *ragilinea* sp. n. New Guinea, WARREN (158) Nov. Zool. Tring **13**.

Lobura gen. n. near *Ptychopoda*, *ocellata* sp. n. Guiana, WARREN (452) Washington U. S. Nation. Mus. Proc. **30**.

Lomographa discolorata Paraguay, *proximata* Bolivia, (492), *ultima* Guiana (493), **spp. n.**, WARREN T.c.

Lygris prunata ab. n. *flavica*, SCHNEIDER Tromsø Mus. Aarsh **28** (125).

Macaria? *flumenata* **sp. n.** Arizona, PEARSAI (215) Brooklyn Mus. Bull. **1**.—*M. quadrifasciata* **sp. n.** Arizona, TAYLOR (199) Ent. News **17**.

Marmopteryx animata **sp. n.** Utah, PEARSAI (212) Brooklyn Mus. Bull. **1**.

Marragodes comminuta Tucuman, DOGNIN (211) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**

Megaloba **gen. n.** *Trichopteryginae* (109), *leucocyna*, *M.?* *rhododactyla*, (110), *M. rubripicta* (111), **spp. n.**, New Guinea, WARREN Nov. Zool. Tring **13**.

Melemaea virgata **sp. n.** Arizona, TAYLOR (188) and (349) Ent. News **17**.

Melochlora affinis (417) *genuflexa*, *hydrotodes*, (418), *obnubilata*, *vagilinea*, (419), Guiana, **spp. n.**, WARREN Washington U. S. Nation. Mus. Proc. **30**.

Metienlodes rufaria Peru, DOGNIN (213) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**

Miantonota rectilinea **sp. n.** Cuba, WARREN (420) Washington U. S. Nation. Mus. Proc. **30**.

Microgonia albicoma Bolivia (543), *cubana* Cuba, *foedaria* Peru (544), *punctilinea* Bolivia (545), *uniformis* Guiana, *respertilio* Mexico, *xanthopepla* Guiana, (547), **spp. n.**, WARREN Washington U. S. Nation. Mus. Proc. **30**.

Micromia **gen. n.** *Tephroclystiinae*, *fulripuncta* **sp. n.** New Guinea, WARREN (122) Nov. Zool. **13**.

Milionia pericallis R. and J. pl. iii f. 5, JORDAN (760) Nov. Zool. Tring **13**.

Mimozonodes? *subsignata* **sp. n.** Venezuela, WARREN (547) Washington U. S. Nation. Mus. Proc. **30**.

Mimomanes **gen. n.** *Heterusiinae*, *egregia* Bolivia, (114), *theclata* Peru (115), **spp. n.**, DOGNIN Bruxelles Ann. Soc. ent. Belgique **50**.

*Mimomiza flavesce*ns Khasia hills, SWINHOE (284) Ann. Mag. Nat. Hist. **17**, **sp. n.**

Mimophyle parallela **sp. n.** Guiana, WARREN (523) Washington U. S. Nation. Mus. Proc. **30**.

Mimosema dorsilinea **sp. n.** Peru, WARREN (548) T.c.

Mnesithetis decolor Guiana, *rufipuncta* Brazil, **spp. n.**, WARREN (452) T.c.

Moneta **gen. n.** *Ennominae*, *plenicolor* **sp. n.** New Guinea, WARREN (159) pl. x f. 8 Nov. Zool. Tring **13**.

Mychonia excisa **sp. n.** Mexico, WARREN (548) Washington U. S. Nation. Mus. Proc. **30**.—*M. divaricata*, *rubida*, Peru, DOGNIN (212) Bruxelles Ann. Soc. ent. Belgique **50**, **spp. n.**

Myrioblephara adumbrata, *complicata*, (142), *fulvirena* with ab. *defulcata*, *inquinata* (143), *lucidata*, *olivacea* with ab. *albiridis*, *submarginata*, (144), New Guinea, WARREN Nov. Zool. Tring **13**, **spp. n.**

Myrmecophantes relata **sp. n.** Colombia, WARREN (501) Washington U. S. Nation. Mus. Proc. **30**.

Nadagara cuneigera New Guinea, WARREN (160) Nov. Zool. Tring **13**, **sp. n.**

Narragodes laevis **sp. n.** Peru, WARREN (524) Washington U. S. Nation. Mus. Proc. **30**.

Nearcha alba cf. *Acibdela*.

Neazata **gen. n.** *Semiothisinae*, *multistrigaria* **sp. n.** Brazil, WARREN (525) Washington U. S. Nation. Mus. Proc. **30**.

Nematocampa falsa **sp. n.** Guiana, WARREN (549) T.c.

Nemoria pellucidula Queensland. TURNER (129) Adelaide S. Aust. Trans. R. soc. **30**, **sp. n.**

Neodeta **gen. n.** *Epiplemidæ* (404), *fasciata*, *nana*, Guiana, *ochriplaga* Brazil, (405), **spp. n.**, WARREN Washington U. S. Nation. Mus. Proc. **30**.

Neodontopera **gen. n.** (549), near *Nematocampa*, *cinerea* **sp. n.** Mexico (550), WARREN T.c.

Neozuga **gen. n.** (497), near *Berberodes*, *latifascia*, *strictifascia*, Guiana, **spp. n.**, (498), WARREN T.c.

Nesaleis rufrenata Chiriqui, DOGNIN (118) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**

Nipteria deformis Peru, *marginata* Argentina, *sabulosa* Colombia, **spp. n.**, WARREN (502) Washington U. S. Nation.

Mus. Proc. **30**.—*N. saturata* Argentina, DOGNIN (117) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Nomenia and *Euehoeca*, components, *duodecimlineata* synonymy, DYAR (110) Canad. Entomol. **38**.—*N. unipecta* California (35) with var. *secunda* (38), PEARSALL Canad. Entomol. **38**, sp. n.

Norcia pulverosa New Guinea, WARREN (76) Nov. Zool. Tring **13**, sp. n.

Notoptya gen. n. *Epiplemidæ*, *fuscularia* sp. n. Brazil, WARREN (406) Washington U. S. Nation. Mus. Proc. **30**.

Numia albisepta sp. n. Cuba, WARREN (550) T.c.

Nycterephes gen. n. *Selidoseminæ* (135), *coracopa* sp. n. W. Australia (136), TURNER Adelaide S. Aust. Trans. R. Soc. **30**.

Nyssia zonaria lapidaria hybrid *merana*, BURROWS (132) Ent. Rec. 1906.

Obclopteryx gen. n. near *Eramis* (407), *angusta* sp. n. Peru (408), WARREN Washington U. S. Nation. Mus. Proc. **30**.

Ochypria dilataria, fultristiga, pulchella, (100), *rubecula, subcaesia, unitacniata*, (101), New Guinea, WARREN Nov. Zool. Tring **13**, spp. n.

Oedomia gen. n. *Epipaschiinæ*, *hispida* sp. n. Guiana, DOGNIN (120) Bruxelles Ann. Soc. ent. Belgique **50**.

Omopera gen. n. near *Ptychopoda*, *angulata* sp. n. Guiana, WARREN (453) Washington U. S. Nation. Mus. Proc. **30**.

Oospila sellifera sp. n. Guiana, WARREN (420) T.c.

Oporabia dilutata, christyi a valid species, its variation, ALLEN (85-89) Ent. Rec. 1906.

Oronoma rubriplaga sp. n. Peru, WARREN (470) Washington U. S. Nation. Mus. Proc. **30**.

Orsonoba paulusi Palästina, REBEL (78) Wien Verh. zool.-bot. Ges. 1906, sp. n.—*O. aegyptiaca* Mansura, REBEL (234) T.c., sp. n.

Ozola (?) *Uicolorata* sp. n. Karolinen Archipel, SEMPER (266) D. ent. Zs. Iris **18**.

Pammicris gen. n. near *Tricentra*, *albiguttata, fumata*, Guiana, spp. n.,

WARREN (454) Washington U. S. Nation. Mus. Proc. **30**.

Paraleidia gen. n. *Ascotinae, errabunda*, (145), *marginata, rufirenata*, (146), spp. n., New Guinea, WARREN Nov. Zool. Tring **13**.

Paraleis coeruleascens, curvilinea, (147), *deformis, discata* with abb. *alterata* and *albielausea*, (148), *fulvisepta, junctilinea* with ab. *punctata*, (149), *latimedia, pallidimargo*, (150), *ruptilinea, renusta*, (151), New Guinea, WARREN T.c., spp. n.

Paramilionia gen. n., *rubroplagata* sp. n. Sierra Leone, BETHUNE-BAKER (345) Ann. Mag. Nat. Hist. **18**; T.c. p. 473, cancelled as being *Sungala gloriosa*.

Patalene sordida sp. n. Jamaica. WARREN (551) Washington U. S. Nation. Mus. Proc. **30**.

Periclina cerrina sp. n. Mexico, WARREN (551) T.c.

Perigramma albirena Guianá, DOGNIN (116) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Perixera ? *bisecta, festiva*, (90), *indigens, stabilata, P. subrosea*, (91), New Guinea, WARREN Nov. Zool. **13**, spp. n.

Perizoma; variation of British species, PROUT London Trans. City Nat. Hist. Soc. 1905 (25-46).—*P. rectilineata* to *Chaetolopha*, WARREN (95) Nov. Zool. Tring **13**.

Pero atridisea Peru, DOGNIN (213) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.—*P. binasata, disjuncta*, (552), *foeda* (553), Guiana, spp. n., WARREN Washington U. S. Nation. Mus. Proc. **30**.

Petrodara gibbosa ab. n. *subradiata*, WARREN (156) Nov. Zool. Tring **13**.

Phasiane clathrata ab. *nocturnata*, A. AIGNER Ann. Hist.-Nat. Hung. **4** (527-528).

Pherotesia indistincta sp. n. Mexico, WARREN (514) Washington U. S. Nation. Mus. Proc. **30**.

Philopsia canavestita United States, PEARSALL (118) Canad. Entomol. **38**, sp. n.

Phrudura gen. n. *Boarmiidae* type *Bapta pura* Swinh., SWINHOE (554) Ann. Mag. Nat. Hist. **17**.

Phrygonis fratercula (499), *sororcula* (500), Cuba, **spp. n.**, WARREN Washington U. S. Nation. Mus. Proc. **30**.

Physocleora albibrunnea Guiana, *cretaria* Parana, (515), *fulgurata* Guiana, *fuscicosta* Brazil, (516), *nubilata* Guiana, *rectirecta* Brazil, (517), *scutigera* Bolivia, (518), *suffusca* hab.?, *venirufata* Brazil, (519), **spp. n.**, WARREN Washington U. S. Nation. Mus. Proc. **30**.

Pigia albiserpentata **sp. n.** Arizona, PEARSELL (212) Brooklyn Mus. Bull. **1**.

Plutodes connexa New Guinea, WARREN (137) Nov. Zool. **13**, **sp. n.**

Poecilasthena dorsilinea New Guinea, WARREN (108) T.c., **sp. n.**

Polla albipuncta **sp. n.** Paraguay, WARREN (554) Washington U. S. Nation. Mus. Proc. **30**.

Polypoetes aniplata **sp. n.** Bolivia, WARREN (412) T.c.

Polysphalia **gen. n.** *Tephroclystiinae*, *cristigera* **sp. n.** New Guinea, WARREN (123) Nov. Zool. **13**.

Porona? balteata **sp. n.** Guiana, WARREN (524) Washington U. S. Nation. Mus. Proc. **30**.

Prionia pulchricolor New Guinea, WARREN (160) Nov. Zool. Tring **13**, **sp. n.**

Problepsis magna New Guinea, WARREN (92) T.c., **sp. n.**

Prosthopteryx **gen. n.** *Tephroclystiinae* (123), *barbata*, *caesiata*, (124), *cavilinea*, *latistriga*, (125), *parvipennata*, *rotundata*, (126), *viridiseeta* (127), **spp. n.**, New Guinea; WARREN T.c.

Psaliodes bistrigata Colombia, DOGNIN (207) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**

Pseudosellodes lacunata Argentina, DOGNIN (109) T.c., **spp. n.**

Pseudoterpua paroptila Queensland, TURNER (130) Adelaide S. Austr. Trans. R. Soc. **30**, **sp. n.**—*P. elaearia* cf. *Actenochroma subochracea*.

Pterotaca memoriata **sp. n.** Arizona, PEARSELL (217) Brooklyn Mus. Bull. **1**.

Ptochophyle rectilineata Sumatra, SWINHOE (554) Ann. Mag. Nat. Hist. **17**, **sp. n.**

Ptychoda bipartita, *exempta*, New Guinea, WARREN (92) Nov. Zool. Tring **13**, **spp. n.**—*P. finita*, *fissilinea*, (455), (N-9720 j)

flavicineta, *flexiritta*, Guiana, *imbellis* Jamaica, (456), *marascia* Brazil, *muscifasciata*, *purpureovittata*, (457), *rufarenaria*, *similinea*, (458), *tenebrica*, *ustimargo*, (459), *vagula*, *vitticostata*, (460), Guiana, **spp. n.**, WARREN Washington U. S. Nation. Mus. Proc. **30**.—*P. muscilinea* Tucuman, DOGNIN (204) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**

Ptychotheca **gen. n.** *Tephroclystiinae* for *Chloroclystis pallidivirens* Warr., WARREN (127) Nov. Zool. **13**.

Pycnoloma **gen. n.** *Tephroclystiinae*, *rufibasalis* **sp. n.** New Guinea, WARREN (128) T.c.

Pycnononura rectilineata **sp. n.** Guiana, WARREN (408) Washington U. S. Nation. Mus. Proc. **30**.

Pyrinia aemula Bolivia, *albilinea*, (555), *insula* Guiana, *praefulvata* Bolivia (557), **sp. n.**, WARREN T.c.

Pyrorrhachis ruficeps New Guinea, WARREN (89) Nov. Zool. Tring **13**, **sp. n.**

Racheolopha carnelunata, *coerulea*, (421), *confluaria*, *continuata*, *derasa*, (422), *rubescens*, *extensata*, (423), *florepecta*, *lilacina*, (424), *longipalpis*, *nivetacta*, (425), *pallida*, *sporadata*, (426), Guiana, **spp. n.**, WARREN Washington U. S. Nation. Mus. Proc. **30**.

Remodes parviplaga New Guinea, WARREN (111) Nov. Zool. Tring **13**, **sp. n.**

Rheumaptera hastata allies, ab. n. *demolita* (32), PROUT (22-34) London Trans. City Nat. Hist. Soc. 1906.

Rhomborista exililinea New Guinea, WARREN (89) Nov. Zool. Tring **13**, **sp. n.**

Rhopalodes viridularia (207), *fragmentata*, Chile, *R. ? radiata* Peru, (208), DOGNIN Bruxelles Ann. Soc. ent. Belgique **50**, **spp. n.**

Sabulodes arizonata (130), *costinotata* (131), Arizona, TAYLOR New York J. Ent. Soc. **14**, **spp. n.**—*S. ? amplieimeraria* **sp. n.** Utah, PEARSELL (219) Brooklyn Mus. Bull. **1**.

Sangala lucida Bolivia, DOGNIN (115) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**

Sangalopsis mediata **sp. n.** Bolivia, WARREN (503) Washington U. S. Nation. Mus. Proc. **30**.

Sauria atrilineata, *griseolauta*, New Guinea, WARREN (112) Nov. Zool. Tring **13**, **spp. n.**

Seca obliquaria sp. n. Brazil, WARREN (412) Washington U. S. Nation. Mus. Proc. 30.

Schistocolpia gen. n. (460) near *Dyscophya*, *crinita* sp. n. Guiana (461), WARREN Washington U. S. Nation. Mus. Proc. 30.

Sciagraphia stabilata sp. n. Mexico, WARREN (525) Washington U. S. Nation. Mus. Proc. 30.

Seodiona nobiliaria Oran, BANG-HAAS (141) pl. v f. 13 D. ent. Zs. Iris 19, sp. n.

Scopula Schrank, type *ornata*, to be used for *Aeidaliids*, PROUT (266) Entomologist 1906.

Scoriopsis gen. n. near *Nipteria*, *nigrirenata* sp. n. Mexico, WARREN (503) Washington U. S. Nation. Mus. Proc. 30.

Seotura discolor Brazil, *nigrata* Guiana, spp. n., WARREN (412) T.c.

Sebastia assimilis Guiana (473), *baltesta* Mexico, *deldaria*, (474), *dormita*, *humerala*, Brazil, (475), *olivaria* Ecuador, *pallidistriga* Mexico, (476). spp. n., WARREN T.c.

Selidosema umbrosarium and *indicataria*, PEARSALL (178) Canad. Entomol. 38.—*S. viridis* Queensland. TURNER (133) Adelaide S. Aust. Trans. R. Soc. 30, sp. n.

Semiothisa abrupta Guiana, (526), *atomaria* Peru, *decorata*, (527), *ferrens*, Guiana, *lapidata* Mexico, (528), *liquata* Peru, *multistriata* Brazil, (529), *plurimaculata* Guiana, *punctistriata* Mexico, (530), *subfulva* Panama, *sarda* Colombia, (531), spp. n., WARREN Washington U. S. Nation. Mus. Proc. 30.—*S. niptra* Ecuador, DOGNIN (119) Bruxelles Ann. Soc. ent. Belgique 50, sp. n.

Sienlodopsis dubia Ecuador (406), *gracilinea* Peru (407), spp. n., WARREN Washington U. S. Nation. Mus. Proc. 30.

Somatina azonaria cf. *Cidaria mediocittaria*.

Spectrobasis gen. n. *Hydriomeninae*, *rufa*, (102), *viridis* (103). spp. n., New Guinea, WARREN Nov. Zool. Tring 13.

Stegania dilectaria, gynandromorph, WAGNER Insektenbörse 23 (104).

Steirophora violacea New Guinea, WARREN (113) Nov. Zool. 13, sp. n.

Stenalidia cervinifusa Peru, DOGNIN (117) Bruxelles Ann. Soc. ent. Belgique

50, sp. n.—*S. currifera* Peru, *illineata* Tucuman, DOGNIN (210) T.c., spp. n.—*S. nitens* sp. n. Brazil, WARREN (520) Washington U. S. Nation. Mus. Proc. 30.

Stenaspilates egregiata sp. n. Texas, PEARSALL (218) Brooklyn Mus. Bull. 1.—*S. flavisaria* Arizona (272), *smithii* California (273), GROSSECK Canad. Entomol. 38, spp. n.

Stenoplastis transversa sp. n. Guiana, WARREN (413) Washington U. S. Nation. Mus. Proc. 30.

Stenotrachelys insularis sp. n. Cuba, WARREN (520) T.c.

Sterriha farada sp. n. Mexico, WARREN (461) T.c.

Stesichora pura, *strigifera* with ab. *crassistriga*, New Guinea, WARREN Nov. Zool. Tring 13, spp. n.

Stigma atraria Alexander mts., BANG-HAAS (137) D. ent. Zs. Iris 19, sp. n.

Syneosmia colorata New Guinea, WARREN (128) Nov. Zool. 13, sp. n.

Synereus gen. n. near *Pyrrinia*, *ustimargo* sp. n. Guiana, WARREN (557) Washington U. S. Nation. Mus. Proc. 30.

Synclis irrujata sp. n. Mexico, WARREN (462) Washington U. S. Nation. Mus. Proc. 30.

Syataracta albibasis with ab. *plumbea* and *atriplena* (134), *clathrata* with ab. *fasciata* (135), *fulvata* with ab. *tephrospila*, *nigrellata* with ab. *scutigera* and *semifascia*, (136), New Guinea, WARREN Nov. Zool. 13, spp. n.

Tachyphyle costiscripta (426), *subfulvata* (427), Guiana, spp. n., WARREN (427) Washington U. S. Nation. Mus. Proc. 30.

Talledgea merged in *Philopsia*, PEARSALL (415) Canad. Entomol. 38.—*T. tabulata* to *Lobophora*, PEARSALL (119) Canad. Ent. 38.

Teplirina albisepta Mexico, *T. ? confertistriga* Brazil, spp. n., WARREN (532) Washington U. S. Nation. Mus. Proc. 30.

Teplirynopsis indeterminata sp. n. Mexico, WARREN (533) T.c.—*T. memor* Peru, DOGNIN (212) Bruxelles Ann. Soc. ent. Belgique 50, sp. n.—*T. subumbrata* Buenos Aires, DOGNIN (119) T.c., sp. n.

Tephroclystia boryata, *tenerifensis*, Tenerife, REBEL (32) Wien Ann. Nat.

Hist. Hofmus. **21**, spp. n.—*T. albibisecta*, *coeruleseens*, *currimacula*, (129), *deceus*, *flavicorpus*, (130), *ornatipennis*, *stabilis*, *albinmixta*, (131), New Guinea, WARREN Nov. Zool. **13**, spp. n.—*T. anita*, *antaria*, (477), *collicata*, Brazil, *conduplicata*, (478), *consors*, Mexico, *defimbriata* Brazil, (479), *discipuncta* Mexico, *gaumaria* Brazil, (480), *goslina* Mexico, *hastaria* Brazil, (481), *helenaria* Brazil, *indecis* Mexico, (482), *infrequens* hab. ?, *kurtia*, *leucographata*, (483), *mediobrunnea*, *mollita*, (484), Mexico, *muscistrigata* Brazil, *parcirufa* Bolivia, (485), *perolirata* Peru (486), *pietimargo*, *planipennis*, *rauca*, (487), *sellia*, Mexico, *semilignata*, (488), *semirufescens*, Brazil, *subalba* Mexico, (489), *submiranda* Guiana, *sylpharia*, (490), *uraria*, Brazil, *violetta*, (491), *westonaria* (492), Mexico, spp. n., WARREN Washington U. S. Nation. Mus. Proc. **30**.—*T. furipennis*, *scmilugens*, Tucuman, DOGNIN (209) Bruxelles Ann. Soc. ent. Belgique **50**, spp. n.—*T. graphata* ab., A. AIGNER Ann. Hist.-Nat. Hung. **4** (526).

Tephronia fatimaria Oran, BANGHAAS (140) pl. v f. 14 D. ent. Zs. Iris **19**, sp. n.

Tephrosia luridata ab., DAWS (160) Entomologist 1906.

Thalassodes zebrata New Guinea, WARREN (90) Nov. Zool. Tring **13**, sp. n.

Therapis exonymiaria ab., A. AIGNER Ann. Hist.-Nat. Hung. **4** (527).

Timandra amata ab., A. AIGNER, l.c.

Tolmera marescens New Guinea sp. n., *albibasalis* Warr. ? ; WARREN (152) Nov. Zool. Tring **13**.

Tricentra aurilimbata, *biguttata*, (462), *brunneomarginata*, *colligata*, (463), *consequens*, *flaristigma*, (464), *ignefumosa*, *pererocca*, (465), *rinosata*, (466), spp. n., Guiana, WARREN Washington U. S. Nation. Mus. Proc. **30**.—*T. debilis* Guiana, DOGNIN (111) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Trichodezia; components, PEARSALL (414) Canad. Entomol. **38**.

Trochiodes subpoliata sp. n. Bolivia, WARREN (476) Washington U. S. Nation. Mus. Proc. **30**.

Trochistis albivertex, *asinina*, *rufolira*, (153), *vulpina* (154), New Guinea, WARREN Nov. Zool. Tring **13**, spp. n.

(x-9720 j)

Xanthorhoë albiapicata, *bifidrata*, (103), *cerasina* pl. x f. 5, *coerulecata*, *fulvinotata*, (104), *interrufata* pl. x f. 6, *monastica*, (105), *plumbilinea* (106), New Guinea, WARREN T.c., spp. n.—*X. circumvallaria* Alberta, Taylor (205) Canad. Ent. **38**, sp. n.—*X. pontiaria* (400), *fossaria* (401), Brit. Columbia, TAYLOR T.c., spp. n.—*X. ? suffocata* Tucuman, DOGNIN (205) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.—*X. subduetata* pl. xlv f. 7, HOWES (509) Wellington Trans. N. Zeal. Inst. **38**.—*X. ferrugata*, crossing forms, PROUT (525-531) London Trans. ent. Soc. 1906.

Xenoclystia gen. n. near *Tephroclystia*, *delectans*, (132), *delicata*, *lumerata*, *unipuncta*, (133), spp. n., New Guinea, WARREN Nov. Zool. **13**.

Xenoeista trimaculata sp. n. Guiana, WARREN (533) Washington U. S. Nation. Mus. Proc. **30**.

Xenomigia gen. n. (413) near *Stenoplastis*, *veninotata* sp. n. Colombia (414), WARREN T.c.

Zenophraps victoria Brit. Columbia, TAYLOR (399) Canad. Entomol. **38**, sp. n.

The following entries of Geometridae have previously appeared in the Zoological Record.

(*Acidalia tabianaria* Parma, *gianellaria* Donnaz, TURATI Naturalista sicil. Palermo **18** 1905, spp. n.—*A. perornata* THIÉRY MIEG, Naturaliste **26** sp. n.)

(*Angerona simulatrix* sp. n., THIÉRY MIEG T.c.)

(*Aplogompha aurifera* sp. n. THIÉRY-MIEG, Naturaliste **26**.)

(*Aselina notodontina* THIÉRY-MIEG, T.c., sp. n.)

(*Belutodes* gen. n. THIÉRY-MIEG, T.c.)

(*Callipia paradisaa*, *rosetta*, THIÉRY-MIEG, T.c. spp. n.)

(*Callygris* gen. n., THIÉRY-MIEG, T.c.)

(*Cidaria selika* sp. n. THIÉRY MIEG Op. cit. **27**.)

(*Eusechema auriplena* sp. n., *maloyaria* Guénée, *paupera*, *remota* Walk. *auctata*, *remota* Walk. *albimacula*, varr. n. THIÉRY-MIEG, Naturaliste **26**, 1904.)

(*Grammicopteryx* gen. n., THIÉRY-MIEG, T.c.)

(*Lygris prunata*, THIÉRY-MIEG, T.c. sp. n.)

(*Lythria purpuraria* DEMAISON, Paris, Bul. Soc. ent. **1905**, (125-126).)

(*Marmopteryx elongata*, THIÉRY-MIEG, Naturaliste **26** 1904, sp. n.)

(*Milionia glauca* Cr. *basirubra* var. n. THIÉRY-MIEG, Naturaliste **27** 1905.)

(*Nelo versicolor* sp. n. THIÉRY-MIEG, Naturaliste **26**.—*Nelo decipiens*, *tricolor*, THIÉRY-MIEG, Op. cit. **27** 1905, spp. n.)

(*Ophthalmophora chonya* sp. n. THIÉRY MIEG Naturaliste.)

Ourapteryx girela sp. n., *ourapteryx multistrigaria* Walk. *furissima* var. n., THIÉRY MIEG, T.c.)

(*Paraphnaeus* gen. n. THIÉRY-MIEG, Naturaliste, **26**, 1904.)

(*Parascotia nissenii* Algeri, TURATI, Naturalista sicil. Palermo **18** 1905 (42-43), sp. n.)

(*Pareuschema* gen. n. (type *E. regalis* Butl.) THIÉRY-MIEG, Naturaliste **27** 1905.)

(*Parourapteryx* gen. n. THIÉRY-MIEG, Naturaliste **26** 1904.)

(*Phellinodes leucophasiata* sp. n. THIÉRY-MIEG, Naturaliste **26**.)

(*Problepsis renus*, *maxima*, *mozambica*, THIÉRY-MIEG, Naturaliste spp. n.)

(*Promasia* gen. n. CHRÉTIEN, Naturaliste, **27**, 1905.)

(*Pseudobryophila* gen. n., *preciosa* sp. n. THIÉRY-MIEG, Naturaliste.)

(*Ripula mahometaria* H. *chiffa* var. n. THIÉRY-MIEG, Naturaliste.)

(*Scordamia ditissima* THIÉRY-MIEG, Naturaliste sp. n.)

(*Scordylia aurica*, *pacifica*, THIÉRY-MIEG, Naturaliste **26** 1904, spp. n.)

(*Stammodes mirifica* sp. n. THIÉRY-MIEG, T.c.)

(*Stigma kuldschaensis* Alph. var. *negrita* var. n., THIÉRY-MIEG, Naturaliste.)

(*Symneuria ditissima* THIÉRY-MIEG, Naturaliste **26** 1904, sp. n.)

(*Tephрина cleusei* THIÉRY-MIEG, sp. n. Naturaliste.)

(*Tephroclystia tomillata* CHRÉTIEN, Paris Bul. soc. ent. **1904**, (133-134) sp. n.)

PYRALIDAE, THYRIDIDAE.

Nymphulinae and *Scopariinae* of North America; monograph, DYAR New York J. Ent. Soc. **14** (77-107).

Abaera aurofusalis Brazil, HAMPSON (191) Ann. Mag. Nat. Hist. **17**, sp. n.

Acallis trichialis Brazil, HAMPSON (201) T.c., sp. n.

Acentropus niveus, HAUPT Wochenschr. Aquarienkunde Braunschweig **3** (355-356).

Actenia obliquisignalis (354), *achromalis* Natal, *rhodesialis* Mashonaland, *leucoplagia* Borneo, (355); HAMPSON Ann. Mag. Nat. Hist. **17**, spp. n.

Addaea maculata, New Guinea, WARREN (63) Nov. Zool. Tring **13**, sp. n.

Agathodes sumatralis Padang, SWINHOE (293) Ann. Mag. Nat. Hist. **17**, sp. n.

Aglossa rhodalis Cape Colony, *phaealis* Basutoland, (218), *infuscalis* Zambesi, *oculalis* Texas, *ommatalis* Cyprus, (219), *rubralis* Centr. Africa, *approximalis* Nigeria, *ferrealis* Mashonaland, (220), *ocelliferalis* Uganda (221); HAMPSON Ann. Mag. Nat. Hist. **17**, spp. n.

Ambasa umbrifarella Algérie, MABILLE (35) Paris ann. soc. ent. **75**, sp. n.

Ambia mesoscotalis (456), *oligalis*, Louisiade Arch., *chaleichroalis*, (457), *melanalis*, Cape Colony, *phaeochroalis*, (458), *leucocymalis*, *aedizonalis*, (459), *albitessellalis* (460), Jamaica, *fusalis* Bali, *ragilinealis* New Guinea and Louisiade Arch., *albibasalis* Surinam, (461), *phaeozonalis* Mexico (462); HAMPSON Ann. Mag. Nat. Hist. **18**, spp. n. — *A. striatalis* sp. n. Florida, DYAR (90) New York, J. Ent. Soc. **14**.

Antennodes gen. n. for part of *Phryganodes* type *P. radicalis* Walk., HAMPSON (291) Ann. Mag. Nat. Hist. **17**.

Aphytoceros cf. *Polgrammodes*.

Aracopaschia gen. n. *Epipaschianae*, *rufescentalis* sp. n. W. Australia; HAMPSON (134) Ann. Mag. Nat. Hist. **17**.

Argyractis malayalis Selangor (375), *lophosomalis* Brazil, *danaealis* Mexico, (376), *triopalis* (377), *pentopalis* (378), Sierra Leone, *chrysophalis* (378), *hamiferalis* (379), Mexico, *leucogonialis* (380) Panama, *longipennis* (381), *schistopalis*

(382), Mexico, *capensis* S. Africa, *nandinalis* E. Africa, (383), *tetropalis* Nigeria (384), *albulalis* Jamaica (385), *micropalis* Mexico (386), *parthenodalis* Argentina (387), *metazonalis* Brazil, *nigerialis*, *leucostrialis* S. W. Africa, (388), *nymphulalis* Natal (389); HAMPSON Op. cit. **18**, spp. n.—*A. cineralis*, *quadarensis*, (133), *herminalis*, *jalapalis*, (134), *cyloialis*, *sinitalis*, (135), Mexico, spp. n., SCHAUS Washington U. S. Nation. Mus. Proc. **30**.—*A. leucistis* Ecuador, DOGNIN (184) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Armatula constantialis Egypt, HAMPSON (123) Ann. Mag. Nat. Hist. **17**, sp. n.

Aroua castanealis Trinidad, HAMPSON (208) T.c., sp. n.

Arta solutalis, (= *Caphys dubia* Druce part), *calidalis* (= *C. dubia* Druce part), Central America, (197), *excisalis* Brazil, (198); HAMPSON T.c., spp. n.—*A. statalis* Druce, cf. *Xantippe tinctalis*, *Parachma atripunctalis* and *Sarcistis phoenicealis*.

Arxama ochracealis Borneo, *erctacealis* Solomon islds.; HAMPSON (390) Ann. Mag. Nat. Hist. **18**, spp. n.

Aulacodes cyclozonalis, *metataxalis* New Guinea, (467), *pentopalis* Solomon islds., *goniophoralis* New Guinea, (468); HAMPSON T.c., spp. n.—*A. moralis*, *templalis*, (138), *confusalis*, *pampalis*, (139), Brazil, spp. n., SCHAUS Washington U. S. Nation. Mus. Proc. **30**.

Banisia quinquelineata New Guinea, WARREN (63) Nov. Zool. Tring. **13** sp. n.

Blepharocerus ignitalis Chili, HAMPSON (200) Ann. Mag. Nat. Hist. **17**, sp. n.

Bocchoris fazanalis Khasia hills, SWINHAE (288) Ann. Mag. Nat. Hist. **17**, sp. n.—*B. redonalis* Swinh. (as *Chabula*) earlier than *sphenocosma* Meyr. (as *Margaronia*); SWINHAE (288) T.c.

Bostra dipectinialis, *pyroxantha*, Mashonaland, *glaucalis*, (345), *sentalis* E. Africa, *ochrigrammalis* Nigeria (346), *flammalis* Ceylon, *conflualis*, *rufimarginalis*, Cape Colony, *suffusalis* Sierra Leone, (347), *ferrealis* Transvaal, *pygmaea*, *ochrigraphalis*, *tenebralis*, E. Africa, (348), *scotalis* W. Africa, *flavilinealis* Kashmir, (349), *leucostigmalis* E. Africa, *xanthorhodalis* Natal, (350), *metaxanthialis* Ceylon (351); HAMPSON Ann. Mag. Nat. Hist. **17**, spp. n.

Brixia quartaria New Guinea, WARREN (64) Nov. Zool. **13**, sp. n.

Callasopia semirufalis Brazil, HAMPSON (212) Ann. Mag. Nat. Hist. **17**, sp. n.

Camadena emarginalis New Guinea, HAMPSON (115) T.c., sp. n.—*C. polystacta* Sikhim, HAMPSON (494) pl. xxxvi f. 7 London Proc. zool. Soc. 1906, sp. n.

Camptomastix hisbonalis synonymy and habitat; SWINHAE (286) Ann. Mag. Nat. Hist. **17**.

Cangetta aurantiaca New Guinea, HAMPSON (212) Ann. Mag. Nat. Hist. **17**, sp. n.

Caphys microthyralis, *rufalis*, Brazil, *euprealis* Paraguay, (202), *ditrogalis* Fr. Guiana (203); HAMPSON T.c., spp. n.—*C. subrosealis* Druce cf. *Xantippe bifidialis*; *C. dubia* Druce cf. *Arta solutalis* and *calidalis*.

Cataclysta euclidialis Old Calabar (392), *melatornalis* Brazil (393); HAMPSON Ann. Mag. Nat. Hist. **18**, spp. n.—*C. jaliscalis* (135), *orizabalis*, Mexico, *scaralis* Brazil, (136), spp. n., SCHAUS Washington U. S. Nation. Mus. Proc. **30**.

Ceratoclasia sulpitialis Sumatra, SWINHAE (414) Ann. Mag. Nat. Hist. **18**, sp. n.

Chalcidoptera incommitata cf. *Sylepta desmialis*.

Chilo simplex, natural history; LEFROY Agric. Res. Inst. Pusa **1** (97–114) pls. x, xi.

Chloropaschia gen. n. *Epipaschianae*, *thermalis* sp. n. Fr. Guiana, HAMPSON (141) Ann. Mag. Nat. Hist. **17**.

Cledeobia styphlotricha S. Africa, *palpangulalis* Transcaspia, (356), *bipunctalis* Algeria (357); HAMPSON T.c., spp. n.

Constantia leucogrammalis E. Africa (352), *phaeagonalis* Cape Colony, *poliopastalis* Algeria, (353), *aglossalis* Cape Colony, *fuscalis* Aden, (354); HAMPSON T.c., spp. n.

Cotachena bivitreata Fergusson isld., HAMPSON (215) T.c., sp. n.

Crambus; natural history of some N. American, larval tubes etc., FELT (67–78) Albany N.Y. Bull. St. Mus. **104**.—*C. brachyrhabda* Sikhim, HAMPSON (494) pl. xxxvi f. 18 London Proc. Zool. Soc. 1906, sp. n.

Crocidophora habisalis Walk. to *Monocrociis*, SWINHOE (295) Ann. Mag. Nat. Hist. **17**.

Ctenus **gen. n.** near *Rhaphiptera* (32), *malacellus* **sp. n.** Malaga (33), MABILLE Paris Ann. Soc. ent. **75**.

Cyelidalis **gen. n.** *Chrysauginae* *chrysealis* **sp. n.** Brazil, HAMPSON (204) Ann. Mag. Nat. Hist. **17**.

Cyelopalpia phaealis Mexico, HAMPSON (203) T.e., **sp. n.**

Cymoriza paroisalis, *jonesalis*, Brazil, **spp. n.**, SCHAUSS (137) Washington U. S. Nation. Mus. Proc. **30**.

Dasygenemia agamalis Venezuela, HAMPSON (196) Ann. Mag. Nat. Hist. **17**, **sp. n.**

Desmia and *Aediodes*; critical and descriptive list of the species in the Stettin Museum; HERING (52-108) Stettiner. ent. Ztg. **67**.—*D. nominabilis* Texas (55), *trimaculalis* Ecuador (56), *herrichialis* Colombia (59), *revindicata* Bolivia (66), *D. (Aediodes) niveiciliata* Haiti (76), *quadrinaculata* (83), *hoffmannsi* (88), Peru, *tenuinaculata* Bolivia (89), *peruciana* Peru (92), *falcatalis* Bolivia (94), *meyricki* Fergusson isld. (98), *pehlkei* Ecuador (103); HERING T.e., **spp. n.**—*D. vicina* Guiana, DOGNIN (121) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**

Deuterollyta pagiroa **sp. n.** Brazil, SCHAUSS (141) Washington U. S. Nation. Mus. Proc. **30**.

Dichocrocis riscalis Khasia hills, SWINHOE (292) Ann. Mag. Nat. Hist. **17**, **sp. n.**

Diloxis ustalis Brazil, HAMPSON (199) Ann. Mag. Nat. History ser. 7 **17**, **sp. n.**

Dioryctria abietella var. *n. septentrionalis*, SCHNEIDER Tromsø Mus. Aarsh. **28** (133).—*D. splendidella* und *abietella* S. V., BAER Tharander forstl. Jahrb. **56** (63-85) 2 Taf.

Diploseustis nigerialis Old Calabar, *sclenalis* New Guinea, HAMPSON (213) Ann. Mag. Nat. Hist. **17**, **spp. n.**

Dracenta rusina, protective appearance, POULTON (533) pl. xxxii f. 1 London Trans. ent. Soc. 1906.

Dysodia rufiflava, Singapore, *penitarsis* Sumatra, HAMPSON (113) Ann. Mag. Nat. Hist. **17**, **spp. n.**

Elacalis **gen. n.** *Pyralinae*, *olivialis* **sp. n.** E. Africa, HAMPSON (258) T.e.

Elophila brunnilalis (91), *drumalis* (92), *slossonalis* (93), *schaefferalis* (95), North America, DYAR New York J. Ent. Soc. **14**, **spp. n.**—*E. bifascialis* var. *n. kearfottalis*, Id. T.e. (92).

Endolophia **gen. n.** *Thyrididae*, *hypochaemia* **sp. n.** Brit. Guiana, HAMPSON (116) Ann. Mag. Nat. Hist. **17**.

Endotricha lobibasalis Queensland (208), *trichophoralis* Singapore, *hypogrammalis* China, (209), *nicobaralis* Nicobar islds., *E. (Perisseretma) phaealis* New Guinea, *E. denticostalis* Borneo, (210), *niocifimbrialis* Sierra Leone, *flavirubralis* Ashanti, (211), *mediolineata* Sikkim (212); HAMPSON T.e., **spp. n.**

Epitamyrpa purpurascens Fr. Guiana, *thermalis* Jamaica, HAMPSON (206) T.e., **spp. n.**

Eporidia phoenicisalis, Walk. = (*Phryganodes imbecilis* part Hamps.); SWINHOE (415) Ann. Mag. Nat. Hist. **18**.

Eristena oligostigmatalis Andaman islds. (389), *trigonalis* New Guinea (390); HAMPSON Ann. Mag. Nat. Hist. **18**, **spp. n.**

Eschata radiata Gilolo, SWINHOE (555) Ann. Mag. Nat. Hist. **17**, **sp. n.**

Eudioptris and allies (108-110); *attigua* Jamaica (114), *sahlkei* Cayenne (117), *gilvidorsis* Bolivia (137), **spp. n.**; HERING Stettiner ent. Ztg. **67**.

Euglyphis falsalis Khasia hills, SWINHOE (290) Ann. Mag. Nat. Hist. **17**, **sp. n.**

Eurythmia yarapaella **sp. n.** Arizona, DYAR (108) New York J. Ent. Soc. **14**.

Euschraemon nigronacralis Algérie, MABILLE (36) Paris Ann. Soc. ent. **75**, **sp. n.**

Euzophera pusilla Biskra, MABILLE (35) T.e., **sp. n.**

Evergestis perobliquialis Tibet, HAMPSON (495) pl. xxxvi f. 20 London Proc. Zool. Soc. 1906, **sp. n.**

Galasa striginerralis Mexico, HAMPSON (200) Ann. Mag. Nat. Hist. **17**, **sp. n.**

Galleria melonella, Immunität gegen Tuberkulose, METALNIKOV Arch. sc. biof. **12** (299-316) 2 Taf.

Gargela Walk. = (*Micophila* Meyr.); *G. cuprealis* Borneo, *arcualis* New

Guinea, **spp. n.**; HAMPSON (374) Ann. Mag. Nat. Hist. **18**.

Geshna **gen. n.** *Nymphulinae* (95), *primordialis* **sp. n.** N. America (97), and *Nymphula cannalis* auctt., DYAR New York J. Ent. Soc. **14**.

Glyphodes mascarenalis Iles Comores, JOANNIS (182) pl. ix f. 12 Paris Ann. Soc. ent. **75**, **sp. n.**

Grammiphlebia **gen. n.** *Pyralinae*, *obliquialis* **sp. n.** E. Africa, HAMPSON (352) Ann. Mag. Nat. Hist. **17**.

Hendecasis metalophalis Queensland, *diplogrammalis* Bali, *minutalis* Ceylon, HAMPSON (214) T.c., **spp. n.**

Herculia flammealis Madras, *igneifimbrialis* Ashanti, (263), *tristalis* Nigeria, *albifimbrialis* Kiukiang, (264); HAMPSON T.c., **spp. n.**

Heterauge **gen. n.** *Chrysanginae* (193), *sarealis* **sp. n.** Brazil (194); HAMPSON T.c.

Heterographis costalbella Algérie, MABILLE (34) Paris Ann. Soc. ent. **75**, **sp. n.**

Hyboloma pallidalis Burma, HAMPSON (265) Ann. Mag. Nat. Hist. **17**, **sp. n.**

Hyperachma rhodalis, *aenalis*, Fr. Guiana, HAMPSON (199) T.c., **spp. n.**

Idnea ochribasalis Fr. Guiana, HAMPSON (192) T.c., **sp. n.**

Immyra **gen. n.** near *Salebria* (107), *nigrovittella* **sp. n.** Pennsylvania (108), DYAR New York J. Ent. Soc. **14**.

Isocentris rubralis Khasia hills, *minimialis* Borneo, SWINHOE (295) Ann. Mag. Nat. Hist. **17**, **spp. n.**

Jocara trilinealis Bahamas, *lophotalis* Jamaica, (131), *pictalis* Brazil, *ferriusalis* Jamaica, (132), *discais* Fr. Guiana, *oediperalis* Panama, (133); HAMPSON Ann. Mag. Nat. Hist. **17**, **spp. n.**—*J. apicalis* **sp. n.** Mexico, SCHAU'S (141) Washington U. S. Nation. Mus. Proc. **30**.

Lampropygia **gen. n.** *Pyralinae*, *metachrysalis* **sp. n.** Ashanti, HAMPSON (253) Ann. Mag. Nat. Hist. **17**.

Lepidogma flagellalis Borneo, *melanecalis* Ashanti, *melanobasis* Japan, (129), *dentilinealis* Br. E. Africa, *melanopalis* Borneo, (130), *rubricalis* Mashonaland (131); HAMPSON T.c., **spp. n.**

Lepidomys Guen. = (*Chalinitis*); *L. albiscetalis* Panama, *euprecalis* S.

America, *medialis* Argentina, **spp. n.**; HAMPSON T.c.

Letchena satelles with ab. *coeca* New Guinea, WARREN (64) Nov. Zool. Tring **13**, **sp. n.**

Lineodes albicincta Brazil (151), *furcillata* Bolivia (150), *pulcherrima* Peru (155), HERING Stettiner ent. Ztg. **67**, **spp. n.**

Loxoneptera albicostalis Sumatra, SWINHOE (415) Ann. Mag. Nat. Hist. **18**; **sp. n.**

Lygropia subcuprea Argentina, DOGNIN (121) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**—*L. leialis* San Salvador, DOGNIN (185) T.c., **sp. n.**

Macalla mixtirosalis Queensland, *claca* New Guinea, (135), *galeata* W. Australia, *aenochroa* New Guinea, *melapastalis* Africa, (136), *minoralis* Singapore, *fasciculata* Natal, (137), *attenualis* Brit. Guiana, *fulvilinealis* Brit. E. Africa, (138), *ochrotalis* Fr. Guiana, *niveorufa* Panama, *melanobasis* Mashonaland, (139), *grisealis* Brit. Guiana, *ignezonalis* Sierra Leone, *glaucochrysalis* Borneo (140), *metachryseis* Brit. E. Africa, (141); HAMPSON Ann. Mag. Nat. Hist. **17**, **spp. n.**—*M. paranensis* Brazil, *albescens* hab? **spp. n.**, SCHAU'S (140) Washington U. S. Nation. Mus. Proc. **30**.

Macaretaera delicata Swinh. (as *Trichoptychodes*) = (*hesperis* Hampson); SWINHOE (289) Ann. Mag. Nat. Hist. **17**.

Margaronia salmenalis Khasia hills, SWINHOE (294) T.c., **sp. n.**—*M. samoana* Samoa, SWINHOE (114) Op. cit. **18**, **sp. n.**

Massepha marginalis Khasia hills, SWINHOE (287) Op. cit. **17**, **sp. n.**

Mathoris lenistrialis Gold Coast, *multiguttata* Bolivia, HAMPSON (114) Ann. Mag. Nat. Hist. ser. 7 **17**, **spp. n.**

Melanalis **gen. n.** *Pyralinae*, *perfusea* **sp. n.** Natal; HAMPSON (359) T.c.

Melissoblaptes cissonobaphes Queensland, TURNER (90) Brisbane Proc. R. Soc. Queensland **19**, **sp. n.**

Metaclysta **gen. n.** *Hydrocampinae*, *tetrommata* **sp. n.** Louisiade Arch.; HAMPSON (455) Ann. Mag. Nat. Hist. **18**.

Microbelia **gen. n.** *Thyrididae* (64), *curvinota* **sp. n.** New Guinea (65); WARREN Nov. Zool. Tring **13**.

Micropaschia gen. n. *Epipaschianae* (122), *orthogrammalis* sp. n. Fr. Guiana (123); HAMPSON Ann. Mag. Nat. Hist. 17.

Monocrocois cf. *Crocidophora*.

Murgisca marshalli Natal, HAMPSON (204) Ann. Mag. Nat. Hist. 17, sp. n.

Myelois glendella sp. n. Colorado, DYAR (30) New York J. Ent. Soc. 14.

Nachaba diplagialis (208), *nyetalis* (209), S. America; HAMPSON Ann. Mag. Nat. Hist. 17, spp. n.

Nacolcia lentistrialis Paragnay, DOGNIN (184) Bruxelles Ann. Soc. ent. Belgique 50, sp. n.

Neobostra gen. n. *Pyrulinae*, *ferruginealis* sp. n. Natal, HAMPSON (344) Ann. Mag. Nat. Hist. 17.

Nephopteryx hostilis larva, CROMBRUGGHE (271) Bruxelles Ann. Soc. ent. Belgique 50.

Noctuelia astrigalis Peru, DOGNIN (186) Bruxelles Ann. Soc. ent. Belgique 50, sp. n.

Nymphula expatrialis, *polystictalis*, New Guinea; HAMPSON (391) Ann. Mag. Nat. Hist. 18, spp. n.—*N. franciscalis* sp. n. Brazil, SCHAU (139) Washington U. S. Nation. Mus. Proc. 30.—*N. litana* Walk. = (*Endotrieka stenialis* Warr.); SWINHOE (414) Ann. Mag. Nat. Hist. 18.—*N. maculalis* varr. n. *foeminalis* & *masculinalis* (80), *nomophilalis* Florida &c. sp. n. (84), DYAR New York J. Ent. Soc. 14.

Ochresia flammealis S. America, HAMPSON (206) Ann. Mag. Nat. Hist. 17, sp. n.

Oligostigma alieialis, *melanotalis*, Ceylon, *bipunctalis* Nigeria, (463), *disca* Celebes, *camptoteles* Tambora, (464), *grisealis* Jamaica, *palleuca* Borneo, (465), *ectogonalis* Louisiade Arch., *auro-punctalis* India, with var. Java, *albifurcalis* Assam, (466); HAMPSON Op. cit. 18, spp. n.—*O. ducalis* sp. n. Brazil, SCHAU (136) Washington U. S. Nation. Mus. Proc. 30.—*O. vittatalis* sp. n. Florida, DYAR (89) New York J. Ent. Soc. 14.

Ollia parrella sp. n. Texas, DYAR (31) T.c.

Omiodes orevalis Andaman islands, SWINHOE (289) Ann. Mag. Nat. Hist. 17, sp. n.

Omphalepia gen. n. *Epipaschianae*, (190), *sobria* sp. n. Brit. E. Africa (191); HAMPSON Ann. Mag. Nat. Hist. 17.

Orthaga ferrealis Queensland (145), *rubridiscalis*, Australia and Louisiade Arch., *melanoperalis* Borneo, (146), *chionalis* and *bipartalis*, Singapore, (147); HAMPSON T.c., spp. n.

Oxyehirola ceylonica Peradeniya, *mesocola* Christmas isld., HAMPSON (216) T.c., spp. n.

Pachyzancla miniatalis Sumatra, SWINHOE (296) Ann. Mag. Nat. Hist. 17, sp. n.

Parachma thermalis Brazil (194), *atripunctalis* (= *Arta statalis* Druce part) Mexico, *ignefusalis* Bahamas (195), *rufoflavalis* Fr. Guiana, *pallidalis* Central America, (196); HAMPSON Ann. Mag. Nat. Hist. 17, spp. n.

Parachmidia picta Venezuela, HAMPSON (215) T.c., sp. n.

Paraetenia thermalis Mashonaland (267), *phacomosalis* E. Africa, *atrispar* *salis* Mashonaland, (268); HAMPSON T.c., spp. n.

Paraglossa gen. n. near *Aglossa*, *atrisquamalis* E. Africa, (221), *zonalis* W. Africa (222), spp. n.; HAMPSON T.c.

Paraponyx dianalis (137), *paulalis* (138), Brazil, spp. n., SCHAU Washington U. S. Nation. Mus. Proc. 30.

Parthenodes berthalis sp. n. Brazil, SCHAU (140) T.c.—*P. immanis* Borneo, *scotalis* Zambesi, *africalis* Nigeria, (470), *chalcialis* Brazil (471), *nymphulalis* Centr. America, *ectopalis* Borneo, (472); HAMPSON Ann. Mag. Nat. Hist. 18, spp. n.

Pelasgis caulichroalis Jamaica, HAMPSON (203) Op. cit. 17, sp. n.

Pharambara basalis New Guinea, WARREN (65) Nov. Zool. Tring 13, sp. n.

Phlyctaenodes xuthusalis Tibet, HAMPSON (494) pl. xxxvi f. 19 London Proc. Zool. Soc. 1906, sp. n.

Phostria cf. *Phryganodes*.

Phryganodes cf. *Antennodes*. *P. origo* *alis* Hamps. to *Phostria*, SWINHOE (291) Ann. Mag. Nat. Hist. 17.

Phycis dilucidella to *Megasis*, JOHANNIS Paris, Bull. soc. ent. 1906 (151-155).

Plagiosella pectinifera Sierra Leone, HAMPSON (122) Ann. Mag. Nat. Hist. **17**, sp. n.

Platamonia ogyalis Khasia hills, SWINHOE (288) Ann. Mag. Nat. Hist. **17**, sp. n.

Pleuroptya cf. *Sylepta*.

Porocera nigribasalis Guatemala (121), *hemimelas* Panama, *rufitinctalis* Paraguay (125), *polialis* Jamaica, *albiceps* Argentina, (126), *stenipteralis* Fr. Guiana, *albimedialis* Mexico. (127), *subriolascens* Argentina, *africalis* E. Africa, (128); HAMPSON Ann. Mag. Nat. Hist. **17**, spp. n.

Polygrammodes grossalis Guen., to *Aphytoceres*; SWINHOE (296) Ann. Mag. Nat. Hist. **17**.

Polylophota gen. n. *Epipaschianae*, *barbarossa* sp. n. New Guinea, HAMPSON (189) Ann. Mag. Nat. Hist. **17**.

Poujadia pimella sp. n. Arizona, DYAR (31) New York J. Ent. Soc. **14**.

(*Prionapteryx nebulifera*, habits DAECKE Ent. News **16** 1905 (12-14) pl.)

Prosaris pulvereana (268), *rufalis* (269), S. Africa; HAMPSON Ann. Mag. Nat. Hist. **17**, spp. n.

Pygospila cf. *Telepasta*.

Pyralis garalis sp. n. Brazil, SCHAUS (141) Washington U. S. Nation. Mus. Proc. **30**.—*P. oenalis* Ceylon, *costipunctalis* Borneo, *flavimedialis*, (254), *bryalis*, *cautalis*, (255), *ectacmnilis*, *flavicapitalis*, W. Africa, *anaemicalis* E. Africa, *lorymalis* Aden, (256), *digonialis* S. Africa (257); HAMPSON Ann. Mag. Nat. Hist. **17**, spp. n.

Pyrange gen. n. *Chrysauginae*, *flammealis* sp. n. Tijuca; HAMPSON (207) Ann. Mag. Nat. Hist. **17**.

Pyrausta erythropis Ecuador, DOGXIN (186) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.—*P. silrosalis* Khasia hills, SWINHOE (416) Ann. Mag. Nat. Hist. **18**, sp. n.

Rehimena villalis Andaman islds., SWINHOE (287) Ann. Mag. Nat. Hist. **17**, sp. n.

Rhodoneura dorilusalis synonymy and habitat, SWINHOE (286) T.c.—*R. pexa*, Mashonaland, *sparsireta* Cuba, *acygoniata* Colombia, (117), *eugrapha* Ashanti, *leucosticta* Brit. Guiana, (118),

nephelopera Assam, *euprepes* Brit. Guiana, *gemmata* Nigeria, (119), *bullita* Peru, *miosticta* Ashanti, *lateritiata* Borneo, *palealides* Mashonaland, (120), *ferruginosa* Sikhim, *flavicilia* Rhodesia, *nubila* Brit. Guiana, (121), *aurifera* Paraguay (122); HAMPSON Ann. Mag. Nat. Hist. **17**, spp. n.—*R. loxomita* Brisbane, TURNER (89) Brisbane Proc. R. Soc. Queensland **19**, sp. n.

Rhyphopaschia gen. n. *Epipaschianae*, *melanolopha* sp. n. Mashonaland, HAMPSON (190) Ann. Mag. Nat. Hist. **17**.

Ridleyana gen. n. type *Teratauxeta paradoxa* Hering; HAMPSON (469) Op. cit. **18**.

Sacada rhodinalis and *roscaalis* Mashonaland, *nigripuncta* and *metaxantha* New Guinea, (266), *prasinalis* W. Africa (267); HAMPSON Op. cit. **17**, spp. n.

Saceopleura erythralis Brazil, HAMPSON (191) T.c., sp. n.

Salebria engeli sp. n. Pennsylvania, DYAR (107) New York J. Ent. Soc. **14**.

Salobrena atropurpurea Central and S. America, *tenebralis* Brazil, HAMPSON (192) Ann. Mag. Nat. Hist. **17**, sp. n.

Sarcistis phoenicealis (= *Arta otatalis* Druce part); HAMPSON T.c.

Sarosecelis carbalis N. Borneo, SWINHOE (290) Ann. Mag. Nat. Hist. **17**, sp. n.

Scenedra flavibasalis Queensland, HAMPSON (212) Ann. Mag. Nat. Hist. **17**, sp. n.

Scoparia expallivalis (101), *peneumbra*, *schwarzalis*, (103), *strigalis* (104), N. America, spp. n., *S. basalis* varr. n. *palloralis* & *obispalis*, DYAR New York J. Ent. Soc. **14**.

Scopula; this name transferred to *Geometridae*, q.v.

Siculodes fumiceps (65), *nigrithorax*, *suborbitalis*, (66), New Guinea, WARREN Nov. Zool. Tring, **13**, spp. n.

Sindris bipunctalis, *holochralis*, *deltoidalis*, W. Africa, HAMPSON (351) Ann. Mag. Nat. Hist. **17**, spp. n.

Spectrotrota normalis W. Australia, HAMPSON (135) T.c., sp. n.

Stemmatophora xanthozonalis Cape Colony, *rubricostalis* Java, *olivalis*

Ceylon, (261), *rubicundalis* Cape Colony, *scotalis* Kashmir, (262), *fuliginalis* Calcutta, *glauca* Sierra Leone, (263); HAMPSON T.c., **spp. n.**

Stenia annulalis Peru, DOGNIN (184) Bruxelles Ann. Soc. ent. Belgique **50**, **spp. n.**

Stenopaschia **gen. n.** *Epipaschianae* (189), *erythralis* **sp. n.** Brazil (190), HAMPSON Ann. Mag. Nat. Hist. **17**.

Stenoptycha and *Lineodes* (138-141); *S. unicolor* **sp. n.** Peru (147); HERING Stettiner ent. Ztg. **67**.

Sterieta glaucinalis Surinam, *leucozonalis* Singapore (142), *chionophoralis* Brazil, *leucoplagialis* S. America, (143), *lophocephalis* and *congenitalis* Borneo, (144), *obliquialis* Bolivia, (145); HAMPSON Ann. Mag. Nat. Hist. **17**, **spp. n.**

Sthenauge **n. n.** for *Sthenoboea* Rag., HAMPSON (193) T.c.

Strigina pallidirufa Solomon islds. (114), *flammans* Peru, *guttistigma* Nigeria, (115); HAMPSON T.c., **spp. n.**

Sylepta crocealis Ecuador, DOGNIN (185) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**—*S. desmialis* Walk. = (*inferior* Hamps. = *Chalcidoptera incomitata* Swinh.); SWINHOE (293) Ann. Mag. Nat. Hist. **17**.—*S. distinguenda* Hering to *Pleuroptya*, SWINHOE (556) Ann. Mag. Nat. Hist. ser. 7 **17**.

Symphonia albioculalis Old Calabar (391), *leucostictalis* New Guinea (456), HAMPSON Ann. Mag. Nat. Hist. **18**, **spp. n.**

Tegulifera camptoceralis, *sanguiciliialis*, (258), *chrysoproctalis*, *nigricinctalis*, W. Africa, *eraspedalis* Panama, (259), *epipyralis rinotinctalis*, W. Africa, *holothermalis* Mashonaland, (260); HAMPSON T.c., **spp. n.**

Telespasta **gen. n.** for part of *Pygospila* type *P. cuprealis* Swinh., SWINHOE (294) Ann. Mag. Nat. Hist. **17**.

Tetridia murinalis New Pomerania, SWINHOE (296) T.c., **sp. n.**

Thermage **gen. n.** *Chrysarxinae*, *flaviciliialis* **sp. n.** Old Calabar; HAMPSON Ann. Mag. Nat. Hist. **17**.

Tioga melazonalis Bahamas and Jamaica (123), *forealis* Fr. Guiana (124), HAMPSON T.c., **spp. n.**

Tosale relutina Fr. Guiana, HAMPSON (193) T.c., **sp. n.**

Tribania glaucinalis, W. China, HAMPSON (269) T.c., **sp. n.**

Trichophyesetis whitei Tenerife, REBEL (237) Wien Verh. zool.-bot. Ges. 1906, **sp. n.**

Trichoptychodes cf. *Macaretaera*.

Triphassa flammealis, *anaemialis*, W. Africa, HAMPSON (265) Ann. Mag. Nat. Hist. **17**, **spp. n.**

Tyndis dentilinealis W. Africa, *proteanalis*, (357), *megistalis*, E. Africa, *pictimarginalis* W. Africa, (358); HAMPSON T.c., **spp. n.**

Uliosoma anaemialis Argentina, *caustalis* Trinidad; HAMPSON (201) T.c., **spp. n.**

Vitessa glaucoptera Queensland (216), *vitialis* Fiji, *cyanea* Fergusson isld., *unipetinalis* Solomon islds., (217), HAMPSON T.c., **spp. n.**

Vitessa stellina New Guinea, *teloroma* Perak, (412), *temerata* New Guinea (413); SWINHOE Ann. Mag. Nat. Hist. **18**, **spp. n.**

Xantippe tinctalis, (= *Arta statalis* Druce part) Mexico and S. America, *bifilalis* = (*Caphys subroscalis* Druce part) Mexico; HAMPSON (194) Ann. Mag. Nat. Hist. **17**, **spp. n.**

Zophodia polingella **sp. n.** Arizona, DYAR (11) New York, J. Ent. Soc. **14**.

PTEROPHORIDAE, ORNEODIDAE.

The natural history of British *Alucitides*; TUTT British Lep. vol. v.

Aydistis nanodes **sp. n.** Ceylon, MEYRICK (136) Bombay J. Nat. Hist. Soc. **17**.

Amblyptilia cosmodactyla ab. **n. nireca**, BANKES (39) Ent. Rec. 1906.

Cosmoclostis pessenta **sp. n.** Ceylon, MEYRICK (134) Bombay J. Nat. Hist. Soc. **17**.

Crombrugghia **gen. n.** for *Oxyptilus distans*, TUTT (449) Brit. Lep. **5**.

Marasma agrorum var. **n. (sp. n.?) tuttodactyla Courmayeur, CHAPMAN (178) Ent. Rec. 1903.**

Orneodes sycephanta, *toxophila*, (133), *trachyptera* (134), Ceylon, MEYRICK Bombay J. Nat. Hist. Soc. **17**, **spp. n.**

Oxyptilus regulus **sp. n.** Ceylon, MEYRICK (135) T.c.

Platyptilia molopias sp. n. Ceylon, MEYRICK (135) T.c.

Stenoptilia sahlbergi Kamii penins., POPPIUS (9) f. 2 Helsingfors Acta Soc. Fauna Fl. Fenn. **28** No. 3, sp. n.

Trichoptilus paludum early stages, CHAPMAN (133-154) pl. vii London Trans. ent. Soc. 1906.

TORTRICIDAE.

The British *Tortrices*; BARRETT Lep. of Brit. Isles **11**.

Annotated catalogue of Belgian *Microlepidoptera*, CROMBRUGGHE DE PICQUEN-DAELE Bruxelles Mem. soc. ent. Belgique **13** and **14**.

Conchylis ambiguella, Schaden, Biologie, Bekämpfung, SCHREINER St. Petersburg [Dep. d. Landwirthsch.] 1901 (32); Verteilung der Geschlechter, DEWITZ Geisenheim Ber. Lehranst. Obstbau **1905** (194-196); Häufigkeit, DEWITZ Geisenheim Ber. Lehranst. Obstbau **1905** (188-193); *C. ambiguella* und *Eudemis botrana*, Einfluss der Wärme, DEWITZ Geisenheim Ber. Lehranst. Obstbau **1905** (161-188).—*C. calaxyrtana* Morea, REBEL (304) Berliner ent. Zs. **50**, sp. n.—*C. littorana* Ins. Grado, GALVAGNI (83) Wien Verh. zool-bot. Ges. 1906, sp. n.

Cydia grindeliana Texas, BUSCK (211) Canad. Entomol. **38**, sp. n.

Cymolomia = (*Exartema* Clem.), BUSCK Ent. News **17** (305).

Enarmonia vexilla Tibet, DURRANT (497) London Proc. zool. Soc. 1906, sp. n.

Epiblema mundana variation etc., BANKES (8) Entomologist London **29**; STUDD T.c. (19).—*E. sordidana*, early stages BANKES (101-106 and 139) Ent. Mag. London **42**.—*E. ocladius* sp. n. Ceylon, MEYRICK (137) Bombay J. Nat. Hist. Soc. **17**.

Eucosma picicollana sp. n. Washington, DYAR (108) New York J. Ent. Soc. **14**.

Euxanthlis hamana var. n. *largana*, REBEL (305) Berliner ent. Zs. **50**.

Hastula hyerana local and melanic variation, CHAPMAN (243-246) pl. iii Ent. Mag. London **42**; variation at Hyères, CHAPMAN (155-168) pl. viii London Trans. Ent. Soc. 1906.

Hemimene sedatana, *piperana*, (177), *capitana*, *britana*, (178), *bittana* (179), *leopardana*, *plumeriana*, (181), BUSCK Washington Proc. Biol. Soc. **19**, spp. n.

Lipoptylella; characters and composition (173-176); *kana*, *banana*, N. America, spp. n., (182). BUSCK T.c.

Loxoterna nom. n. for *Exartema* *latifasciana* Haw., BUSCK (305) Ent. News **17**.

Lozopera mediterranea sp. n. Morea, REBEL (302) Berliner ent. Zs. **50**.

Meridarchis episacta (137), *phacodella* (138), Ceylon, MEYRICK Bombay J. Nat. Hist. Soc. **17**, spp. n.

Paramorpha laxcuta sp. n. Ceylon, MEYRICK (138) T.c.

Platonia badiana, bibliographic note, BANKES (11) Entomologist London **29**.

Platypleplus normopa sp. n. Ceylon, MEYRICK (136) Bombay J. Nat. Hist. Soc. **17**.

Polychrosis confinitana Stgr., REBEL (305) Berliner ent. Zs. **50**.

Retinia austriana Toronto with larva, COSENS (364) Canad. Entomol. **38**, sp. n.

Steganoptycha simplana larva, CROMBRUGGHE (271) Bruxelles Ann. Soc. ent. Belgique **50**.

Tortrix ambiguella ravages on the Rhine, Naturaliste 1906 (226).—*T. pronubana* in Britain, natural history; ADKIN (13-17) London Proc. S. London Nat. Hist. Soc. 1906; ADKIN (265) Entomologist 1906; in Guernsey, food-plant, LUFF (42) Ent. Mag. London **42**; stages, BANKES (6, & 7) Ent. Mag., London **42**.—*T. viridana* habits, SMITS Feuille jeunes natural. **36** (135).

TINEIDAE. s.l. various families.

Adela australis, natural history, CHRÉTIEN (17-19) Naturaliste 1906.

Acolocosma transferred to *Philobotides* (37); *cycloxantha* sp. n. W. Australia (38); MEYRICK Adelaide S. Aust. Trans. R. Soc. **30**.

Agrippa erippecella sp. n. Texas, BUSCK (723) Washington Smithsonian Inst. U. S. Nation. Mus. Proc. **30**.

Aeoloscelis theoris sp. n. Ceylon, MEYRICK (410) Bombay J. Nat. Hist. Soc. **17**.

Anacampsis nerteria **sp. n.** Ceylon, MEYRICK (139) Bombay J. Nat. Hist. Soc. **17**.—*A. nonstrigella* Pennsylvania, BUSCK (121) Canad. Entomol. **38**, **sp. n.**

Argyresthia conjugella, natural history, LAMPA (1-16) pl. i Uppsala Ent. Tidskr. **27**.

Atychia orientalis Asia Minor, REBEL (217) Wien Ann. Nat. Hist. Hofmus. **20**, **sp. n.**

Antiochtha aclmastis (150), *stellulata* (149), *tetradelta* (150), Ceylon, MEYRICK Bombay J. Nat. Hist. Soc. **17**, **spp. n.**

Antithyra **gen. n.** *Nyloryetidae*, *rinicata* **sp. n.** Ceylon, MEYRICK (404) T.c.

Aristotelia lucidella food-plant THURNALL (211), WALSINGHAM (232) Ent. Mag. London **42**.—*A. palustrella*, larva and pupa, BANKES (143-146) Ent. Mag. London **42**.

Bida Walk., definition, *radiosella* Walk. (under *Psceadia*) of which *crambella* Walk. is synonym, description; MEYRICK (48) Adelaide S. Aust. Trans. R. Soc. **30**.

Borkhausenia capuodyta Queensland (35), *asparta* Australia (36), MEYRICK T.c., **spp. n.**

Brachmia cherandra (151), *symphectodes* (152), Ceylon, MEYRICK Bombay J. Nat. Hist. Soc. **17**, **spp. n.**

Bradypodicola **gen. n. subfam. n.** *Bradypodicolinae*, *hahneli* **sp. n.** Süd-Amerika auf *Bradypus* (690), SPULER Biol. Centralbl. **26** (690-697).—Auch in: Festschrift für J. Rosenthal, Tl I, (88a-88k).

Cemlostoma cf. *Leucoptera*.

Cerostoma flavistrigella California (97), *maculatella*, *vintrilla*, (98), *undulatella* (99), Arizona, BUSCK Ent. News **17**, **spp. n.**

Cerycostola cf. *Scorpiopsis*.

Cherenta **gen. n.** near *Catoryctis*, *tinthalea* N. S. Wales, (33), *anthracistis*, *chalcistis*, W. Australia, (34), **spp. n.**; MEYRICK Adelaide S. Aust. Trans. R. Soc. **30**.

Chlidanota **gen. n.** of fam. *n.* (*Chlidanotidae*) (412), *thriambis* **sp. n.** Ceylon (413), MEYRICK Bombay J. Nat. Hist. Soc. **17**.

Coleophora aleyonipennella, larval habits, TURNER (41) Ent. Rec. 1906.—*C. discordella*, *olivaceella*, *lineola*, larval habits, TURNER (173, 174) T.c.—*C. fuscedinella* larval habits, TURNER (311) T.c.—*C. livella* larval habits, TURNER (103) T.c.—*C. nigricella*, *conyzae*, larval habits, TURNER (11-13) T.c.—*C. troglodytella* larval habits, TURNER (65) T.c.—*C. solitariella*, *pyrrhulipennella*, *laricella*, *albilarSELLa*, larval habits, TURNER (118-122) T.c.

Comocritis pieria **sp. n.** Ceylon, MEYRICK (115) Bombay J. Nat. Hist. Soc. **17**.

Copromorpha eflorescens (412), *metalitis* (411), Ceylon, MEYRICK Bombay J. Nat. Hist. Soc. **17**, **spp. n.**—*C. prasinochroa* Sydney, MEYRICK (52) Adelaide S. Aust. Trans. R. Soc. **30**, **sp. n.**

Coriscium texanella **sp. n.** Texas, BUSCK (732) Washington Smithsonian Inst. U. S. Nation. Mus. Proc. **30**.

Cosmopteryx clandestinella **sp. n.** N. America, BUSCK (712) Washington U. S. Nation. Mus. Proc. **30** (707-713).

Cryptophasa xylomima, *porphyritis*, (140), *argyrias*, *pellopis*, (141), Queensland, TURNER Adelaide S. Aust. Trans. R. Soc. **30**, **spp. n.**

Dactylethra **gen. n.** *Ypsolophus* group, *tetroctas* **sp. n.** Ceylon, MEYRICK (153) Bombay J. Nat. Hist. Soc. **17**.

Demiochila **gen. n.** *Gelechiidae*, *psaphara* **sp. n.** Ceylon, MEYRICK (152) T.c.

Depressaria discipunctella H.-S. var. *n. helladicella*, *tenebricosa* Z. = (*albiceolata* Stgr.), REBEL (311) Berliner ent. Zs. **50**.

Dicasteris **gen. n.**, ? near *Hoplophanes*, *leucastra* **sp. n.** Tasmania, MEYRICK (55) Adelaide S. Aust. Trans. R. Soc. **30**.

Elachista mitterbergeri Styria, REBEL (643) Wien Verh. zool.-bot. Ges. 1906, **sp. n.**

Electraema **gen. n.** of the fam. *n.* *Chlidanotidae*, *hemichroa* **sp. n.** Ceylon, MEYRICK (413) Bombay J. Nat. Hist. Soc. **17**.

Eonympha **gen. n.** *Oecophoridae* (406), *erythrozona* **sp. n.** Ceylon (407), MEYRICK T.c.

Epermenia imperialella Pennsylvania, BUSCK (124) Canad. Entomol. **38**, **sp. n.**

Epicallima isopoelia, semantris, Ceylon, MEYRICK (408) Bombay J. Nat. Hist. Soc. **17**, spp. n.

Epichostis gen. n. *Nyloryetidae* (404), *elephantias* sp. n. Ceylon (405), MEYRICK T.c.

Epicnistis gen. n. near *Phyllocnistis*, (64), *euryseia* sp. n. Tasmania (65), MEYRICK Adelaide S. Aust. Trans. R. Soc. **30**.

Epicania gen. n. near *Pancania*, *chlorodelta*, (140), *authaema*, *chernetus*, (141), spp. n. Ceylon, MEYRICK Bombay J. Nat. Hist. Soc. **17**.

Epistomotis gen. n. near *Cerostoma*, *penessa* sp. n. Ceylon, MEYRICK (116) T.c.

Ethmia to replace *Pseccadia*, MEYRICK (49) Adelaide S. Aust. Trans. R. Soc. **30**.—*E. acontias*, *zelaea*, Ceylon, MEYRICK (409) Bombay J. Nat. Hist. Soc. **17**, spp. n.

Eulechria textilis Australia and Tasmania, MEYRICK (36) Adelaide S. Aust. Trans. R. Soc. **30**, sp. n.

Eumenodora gen. n. *Elachistidae*, *enerypta* sp. n. Queensland, MEYRICK (55) Adelaide S. Aust. Trans. R. Soc. **30**.

Euprora gen. n. (732) *Tineidae*, *argentiniliella* sp. n. Texas (733), BUSCK Washington Smithsonian Inst. U. S. Nation. Mus. Proc. **30**.

Eupselia leucaspis (38), *trithrona*, *hypsichora*, (39), Australia; MEYRICK Adelaide S. Aust. Trans. R. Soc. **30**, spp. n.

Eutorna, defined and species tabulated, (40); *leptographa* (41), *intonsa*, *tricasis*, (41), *eurygramma*, *pabulicola*, (43), *spintherias* (44), *diaula*, *phaulocosma*, *pelogenes*, (45), *epienephes* (46), Australia or Tasmania, spp. n.; MEYRICK Adelaide S. Aust. Trans. R. Soc. **30**.

Eriippe pollostella sp. n. Texas, BUSCK (725) Washington Smithsonian Inst. U. S. Nation. Mus. Proc. **30**.

Exorectis gen. n. near *Thereutis*, *autoscia* sp. n. Victoria, MEYRICK (65) Adelaide S. Aust. Trans. R. Soc. **30**.

Gelechia distinctella mit 6 Flügeln, TARNANI Novo-Aleksandrija Zap. Inst. selisk. choz. **18** (106-134).—*G. fondella* Pennsylvania, BUSCK (122) Canad. Entomol. **38**, sp. n.

Gracilaria (Dialectica) gunniella sp. n. Texas, BUSCK (731) Washington Smithsonian Inst. U. S. Nation. Mus. Proc. **30**.—*G. hauderi* Austria, REBEL (9) Wien Verh. Zool. bot. Ges. 1906, sp. n.

Heliangara gen. n. *Gelechiidae*, *lampetis* sp. n. Ceylon, MEYRICK (147) Bombay J. Nat. Hist. Soc. **17**.

Heliodines princeps Brisbane, MEYRICK (51) Adelaide Trans. R. Soc. S. Austr. **30**, sp. n.

Heterobathra Low. definition (46), *tetracentra* sp. n. W. Australia (47), MEYRICK T.c.

Heterochyta gen. n. near *Pleurota*, *xenomorpha*, (47), *asteropa* (48), spp. n., Australia, and *Pleurota pyrosema* Low.; MEYRICK T.c.

Hypertropha zophodesma, *rhothias*, Australia, MEYRICK (51) Adelaide S. Aust. Trans. R. Soc. **30**, spp. n.

Hieromantis fibulata sp. n. Ceylon, MEYRICK (410) Bombay J. Nat. Hist. Soc. **17**.

Hypereallia alseis, *catausta*, Ceylon, MEYRICK (406) T.c., spp. n.

Idiophantis soreuta sp. n. Ceylon, MEYRICK (139) T.c.

Imma; monograph of, MEYRICK (169-206) London Trans. ent. Soc. 1906. The synonymy and taxonomy of this paper are not dealt with below; reference must be made to the paper for these: the following are the spp. n.:—*I. mylias* Ceylon, *cladophragma* Singapore, (173), *triardis* S. India (174), *marileutis* Queensland (175), *psithyrists* Solomon islds., *psoricopa* Ceylon, *cyclostoma* Assam, (176), *metriodoxa* Sumbawa, *lysidesma* Assam, (177), *priozona* Borneo (178), *aulonias* Solomon islds., *dipselia* Sulu, (179), *porpanthes* Perak, *thyriditis* Solomon islds., (180), *dioptrias* New Guinea (181), *caelestis* China, *acroptila* Sierra Leone, (182), *hyphantis* Ceylon (183), *procrossa*, *neurota*, (184), *xantharcha*, Borneo, *trichinota* Celebes, (185), *otoptera* Borneo, *chlorosphenia* Ceylon, (186), *tesseraria*, *homalotis*, (187), *auxobathra*, *megalyntis*, (188), *hectaea*, Borneo, *mesochorda* Assam, (189), *panopta* Flores (190), *grammatistis*, *minatrix*, New Guinea, (191), *epichlaena* (192), *amphixantha*, Borneo,

cymbalodes Assam, (193), *melotoma* Sikkim, *croceola*, (194), *chrysoplaca*. New Guinea, *phalerata* Assam, *epicoma* Solomon islds., (195), *chlorosoma* Assam, *strepsizona* Celebes, (197), *aeluropis* Borneo, (198), *tyroenista* Andaman islds., *chasmatica* Sikkim, (199), *nephelastrea* Borneo, (200), *nephallactis* Venezuela (201), *cuneata* (202), *metachlora*, *thymora*, (203), Brazil, *caneanopsis* Columbia (204); MEYRICK London Trans. ent. Soc. 1906; **spp. n.**

Lecithocera cholopsis **sp. n.** Burma, MEYRICK (149) Bombay J. Nat. Hist. Soc. **17.**

Leucoptera = (*Cemiostoma* Z.: *deltidias* Tasmania, *hemizona* W. Australia, **spp. n.**; MEYRICK (61) Adelaide S. Aust. Trans. R. Soc. **30.**

Lita intermediella Hdg. is *Gelechia fraternella* ab., BANKES (46) Ent. Rec. 1906.—*L. ocellata*, life-history, ravage-, GIARD (627-630) also (158-160 erroneously as *Eurygrea*) Paris C.-R. Acad. Sci. **143.**—*L. sabulosa* la Asia Minor. REBEL (211) Wien Ann. Nat. Hist. Hofmus. **20, sp. n.**—*L. suedicola* ile d'Oléron, MABILLE (54) Paris Ann. Soc. ent. **75, sp. n.**

Loxotrochis **gen. n.** near *Imma*, *sepias* **sp. n.** New Hebrides, MEYRICK (205) London Trans. ent. Soc. 1906.

Lozostoma cf. *Opogona*.

Macrern's rostrata **sp. n.** Ceylon, MEYRICK (147) Bombay J. Nat. Hist. Soc. **17.**

Macrobathra hexadyas, Queensland, MEYRICK (35) Adelaide S. Aust. Trans. R. Soc. **30, sp. n.**

Macrotona parana **sp. n.** Ceylon, MEYRICK (148) Bombay J. Nat. Hist. Soc. **17.**

Megaeraspides monodorellus Asia Minor, REBEL (213) Wien Ann. Nat. Hist. Hofmus. **20, sp. n.**

Metrerius **gen. n.** of the fam. n. *Chlidanotidae*, *ochrolina* **sp. n.** Ceylon, MEYRICK (414) Bombay J. Nat. Hist. Soc. **17.**

Mompha stellerella, *engetella*, Pennsylvania, BUSCK (123) Canad. Entomol. **38, spp. n.**—*M. punctiferella* **sp. n.** Texas,

BUSCK (731) Washington Smithsonian Inst. U. S. Nation. Mus. Proc. **30.**

Monopis hemicitra **sp. n.** Ceylon, MEYRICK (417) Bombay J. Nat. Hist. Soc. **17.**—*M. rusticella* larval food, NURSE (160) Entomologist 1906.

Myriopleura **gen. n.** *Nyloryetidae*, *furfurosa*, (405), *isocentra* (406), **spp. n.**, Ceylon, MEYRICK Bombay J. Nat. Hist. Soc. **17.**

Nartheoceros **gen. n.** near *Macrotona*, *nylodes* **sp. n.** Ceylon, MEYRICK (148) T.c.

Nepticula; Bordeaux spp., notes on larvae etc., BROWN Bordeaux Actes. Soc. lin. **6** (7-15).—*N. leucargyra* (57), *amazona*, *primigena*, *planetis*, *caenodora*, (58), *gilva*, *symmora*, *melanotis*, *funeralis*, (59), *endocapna*, *chalcitis*, *phylanthina* (60), *libera*, *trepida*, (61), Australia, MEYRICK Adelaide S. Aust. Trans. R. Soc. **30, spp. n.**

Notodryas calierga S. Australia, MEYRICK (56) Adelaide S. Aust. Trans. R. Soc. **30, sp. n.**

Numata **gen. n.** near *Aristotelia*, *bipunctella* **sp. n.** Texas, BUSCK (724) Washington Smithsonian Inst. U. S. Nation. Mus. Proc. **30.**

Oecophora aragonella Espagne, CHRÉTIEN, Paris Ann. soc. ent. **1903**, (405) av. fig. et pl., **sp. n.**

Oecophoridae, taxonomy, MEYRICK (34, 35) Adelaide S. Aust. Trans. R. Soc. **30.**

Oedematopoda ignipicta Butl., habits (Japanese), YAMAZAKI Ichihai. Koneh. Sek. Gifu **10** (56-59).

Opogona Z. = (*Lozostoma* Stt.) and belongs to *Tineidae*; MEYRICK (55) Adelaide S. Aust. Trans. R. Soc. **30.**—*O. lachanitis* **sp. n.** Ceylon, MEYRICK (416) Bombay J. Nat. Hist. Soc. **17.**

Opostega frigida **sp. n.** Ceylon, MEYRICK (416) T.c.

Organitis **gen. n.** near *Braehmia*, *characopa* **sp. n.** Ceylon, MEYRICK (151) T.c.

Palamernus **gen. n.** near *Imma* (205), *cannonitis* **sp. n.** Simla (206); MEYRICK London Trans. ent. Soc. 1906.

Persicoptila libanotris **sp. n.** Ceylon, MEYRICK (411) Bombay J. Nat. Hist. Soc. **17.**

Phoecilis gen. n. near *Peritornenta* (49), *neolecta* sp. n. Victoria (50), MEYRICK Adelaide S. Aust. Trans. R. Soc. **30**.

Plthorimaea minor sp. n. Texas, BUSCK (726) Washington Smithsonian Inst. U. S. Nation. Mus. Proc. **30**.

Phyllocnistis acmias, *psychina*, (62), *hapalodes*, *triortha*, (63), *atractias*, *atranota*, (64), Australia, MEYRICK Adelaide S. Aust. Trans. R. Soc. **30**, spp. n.

Phylomictis celesta Queensland, TURNER (142) Adelaide S. Aust. Trans. R. Soc. **30**, sp. n.

Pleurota arduella sp. n. Morea, REBEL (310) Berliner ent. Zs. **50**.—*P. pyroscema* cf. *Heterochyta*.

Plutella cruciferarum, natural history, nomenclature, historical, QUANJER'S (Gravenhage Tijdschr. Ent. **49** (11-17) pls. i and ii; harmfulness in Denmark (Danish) ROSTRUP Aarhush Meddelelser vedrørende Insektangreb paa Markafgrøde i Jylland **1905** 1906 (84-94).—*P. viatica* Tibet, DURRANT (496) London Proc. Zool. Soc. 1906, sp. n.

Psammoris gen. n. *Macrotona* group, *carpaea* sp. n. Ceylon, MEYRICK (149) Bombay J. Nat. Hist. Soc. **17**.

Psecadia cf. *Ethmia*.—*P. radiosella* Walk. cf. *Bida*.—*P. exornata* Walk. synonymy and allies, reference to *Tamarrha*; WALSINGHAM (175-177) Ann. Mag. Nat. Hist. **18**.

Pseudodoxia chalcias, *eretata*, (407), *zopheropa* (408), Ceylon, MEYRICK J. Bombay Soc. **17**, spp. n.

Ptochoryctis acrosticta, *ancistrias*, *seionota* (Ceylon), (403), Id. T. c., spp. n.

Ptochosaris gen. n. near *Saropla*, *horrenda* sp. n. Australia, MEYRICK (37) Adelaide S. Aust. Trans. R. Soc. **30**.

Pyroderces cf. *Stagmatophora*.

Pyrozela gen. n. *Plutellidae* (414), *xanthomima*, *erythromima*, Ceylon, spp. n., (415) MEYRICK Bombay J. Nat. Hist. Soc. **17**.

Recurvaria elachistella sp. n. Texas, BUSCK (725) Washington Smithsonian Inst. U. S. Nation. Mus. Proc. **30**.—*R. pinella* Colorado, BUSCK (212) Canad. Entomol. **38**, sp. n.

Rhinusia arnoldiella Asia Minor, REBEL (212) Wien Ann. Nat. Hist. Hofmus. **20**, sp. n.

Scalidentis gen. n. near *Borkhausenia*, *escharia* sp. n. Ceylon, MEYRICK (409) Bombay J. Nat. Hist. Soc. **17**.

Scieropepla monoides West Australia, TURNER (141) Adelaide S. Aust. Trans. R. Soc. **30**, sp. n.

Scorpiopsis Turn. = (*Cerycostola* Meyr.), *S. pyrobola*, Meyr. (as *Gonionota*) = (*superba* Turn.); MEYRICK (50) Adelaide S. Aust. Trans. R. Soc. **30**.

Scythris chelota sp. n. Ceylon, MEYRICK (411) Bombay J. Nat. Hist. Soc. **17**.—*S. unimaculella* Asia Minor, REBEL (215) Wien Ann. Nat. Hist. Hofmus. **20**, sp. n.

Semiota Dietz, is male of *Setomorpha*, BUSCK (734) Washington D.C. Smithsonian Inst. U. S. Nation. Mus. Proc. **30**.

Setomorpha calcularis Australia, MEYRICK (66) Adelaide S. Aust. Trans. R. Soc. **30**, sp. n.

Solenobia larella Guadarrama, CHRÉTIEN (56) Naturaliste 1906, sp. n.

Sophronia finitimella Asia Minor, REBEL (213) Wien Ann. Nat. Hist. Hofmus. **20**, sp. n.

Stagmatophora; generic synonymy, incl. *Pyroderces*, *Labdia*, *Proterocerosma*, WALSINGHAM and DURRANT (196, 197) Ent. Mag. London **42**.—*Stagmatophora* = (*Pyroderces*); *S. symbolias* sp. n. Queensland; MEYRICK Adelaide S. Aust. Trans. R. Soc. **30**.—*S. gossypiella* Egypt in cotton-pods, WALSINGHAM (178) Ann. Mag. Nat. Hist. ser. 7 **18**, sp. n.

Stathmopoda masinissa sp. n. Ceylon, MEYRICK (410) Bombay J. Nat. Hist. Soc. **17**.

Stenomidae fam. n. for *Agriophara* and *Hypeuryctis*, MEYRICK (50) Adelaide S. Aust. Trans. R. Soc. **30**.

Symmoca atricanella (308), *pannosella* (309), spp. n., Morea, REBEL Berliner ent. Zs. **50**.—*S. canariensis* Tenerife, REBEL (38) Wien Ann. Nat. Hist. Hofmus. **21**, sp. n.

Syntomactis erebra Sydney, MEYRICK (53) Adelaide S. Aust. Trans. R. Soc. **30**, sp. n.

Tamarrha and *Psecadia*, components, taxonomy; WALSINGHAM (176) Ann.

Mag. Nat. Hist. ser. 7 **18**.—*T.* valid, (728), *bittenella* **sp. n.** Texas (730), BUSCK Washington Smithsonian Inst. U. S. Nation. Mus. Proc. **30**.

Telpusa acariella **sp. n.** Texas, BUSCK (722) T.c.

Thiotricha saulotis **sp. n.** Ceylon, MEYRICK (138) Bombay J. Nat. Hist. Soc. **17**.

Thudaea Walk. to *Oecophoridae*, MEYRICK (49) Adelaide S. Aust. Trans. R. Soc. **30**.

Timyra marmaritis (144), *orthadia* (145), *palathodes* (144), *parochra* (146), *peronetrus* (145), *tetraclina* (143), Ceylon, MEYRICK Bombay J. Nat. Hist. Soc. **17**, **sp. n.**

Tineidae; revision of Dietz on *Amydriinae* and *Tineinae*, with criticisms and synonymy, for which refer to the paper itself; BUSCK Canad. Entomol. (345-348).

Tipha diacma, *trichroa*, Ceylon, MEYRICK (142) Bombay J. Nat. Hist. Soc. **17**, **sp. n.**

Trichotaphe washingtoniella (121), *trinotella* (122), Pennsylvania, BUSCK Canad. Entomol. **38**, **sp. n.**

Untomia **gen. n.** near *Aproaerema*, *untomiella* **sp. n.** Texas, BUSCK (727) Washington Smithsonian Inst. U. S. Nation. Mus. Proc. **30**.

Yponomeuta malinella Zell. metamorphosis (Japanese); NITOBE Konchi. Sek. Gifu **10** (362-363).

Zalithia amethystias **sp. n.** Ceylon, MEYRICK (140) Bombay J. Nat. Hist. Soc. **17**.

†PALAEONTINIDAE.

†*Palaeontinidae* fam. n. for *Palaeontina* Butl. etc., HANDLIRSCH (618) Fossil. Ins.

†*Limacodites* **gen. n.**, *mesozoicus* **sp. n.** Bayern Kalk, HANDLIRSCH (622) T.c.

†*Protopsyche* **gen. n.**, *braueri* **sp. n.** Bayern Kalk, HANDLIRSCH (623) T.c.

†*Pachypsyche* **gen. n.** for *Palaeontina* *vidali* Meun., HANDLIRSCH l.c.

†*Archipsyche* **gen. n.**, *sickstattensis* **sp. n.** Bayern Kalk, HANDLIRSCH (624) T.c.

†*Beloptesis* **gen. n.**, *oppenheimi* **sp. n.** Bayern Kalk, and *Cicada gigantea* Weyenb., HANDLIRSCH (625) T.c.

†*Eocicada* **gen. n.** *lameerei* **sp. n.** Bayern Kalk, HANDLIRSCH (627) T.c.

TRICHOPTERA.

Neuer Beitrag zur Kenntnis aussereuropäischer Trichopteren; ULMER Leiden Notes Mus. Jentink **28** 1906 (1-116). This includes many descriptions besides those of the novelties recorded below.

SILFVENIUS gives descriptive notes on the metamorphoses of numerous *Trichoptera*, accompanied with their characters according to groups and in some cases of genera, with 4 plates; Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6 (1-168) plates i-iv.

Uebersicht über die bisher bekannten Larven europäischer Trichopteren; ULMER Zs. wiss. Insektenbiol. **2** 1906 (111-117, 162-168, 209-214, 253-258, 288-296).

The pupa of *Trichoptera*; SILFVENIUS (88-98) Zs. wiss. Insektenbiol. **2**.

†Fossil *Phryganoidea* (= *Trichoptera* auctt.), HANDLIRSCH (483-487) Fossil Ins.

Egg masses of *Trichoptera* with discussion of classification according to habits, SILFVENIUS Helsingfors Acta Soc. Fauna Fl. Fenn. **28** No. 4 (1-128) 2 pls.—Ueber den Laich der Trichopteren, SILTALA Arch. Hydrobiol. Stuttgart **2** 1906 (21-62) 1 Taf.

Wert des Spiralbanes bei einigen Trichopterenlarven; BUCHNER Zs. wiss. Insektenbiol. Husum **2** 1906 (358-359).

Parasites of *Trichoptera*; SILTALA Zs. wiss. Insektenbiol. **2** (382-385).

Adicella meridionalis N.W. Spain, MORTON (275) Entomologist 1906, **sp. n.**—*A. pulcherrima* **sp. n.** West Java, ULMER (43) Leiden Notes Mus. Jentink **28**.

Aethaloptera maxima Orange Free State, ULMER (62) Leiden Notes Mus. **28**, **sp. n.**

Agapetus comatus larva, pupa and case, SILFVENIUS (155-157) f. 41, Helsingfors Acta Soc. Fauna. Fl. Fenn. **27** No. 6.

Agrypnctes crassicornis larva, pupa, case, SILFVENIUS (19-25) fig. 5 T.c. No. 2.—*A. crassicornis* ♂, ♀, localities, SILFVENIUS (111-117) Helsingfors Medd. Soc. Fauna Fl. Fenn. **31**.

Agrypnia islandica (?) ♀ Kanin Halbinsel, MARTYNOV St. Petersburg Zap. Russ. Geogr. Obšč. **41** (267-275).—*A. picta* larva, SILFVENIUS (16) Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 2; pupa, SILFVENIUS (9) f. 2 T.c. No. 6.

Anisocentropus flavomarginatus **sp. n.** Borneo & Java vielleicht N. China, ULMER (51) Leiden Notes Mus. Jentink **28**.—*A. fuscus* Arizona, BANKS (19) Philadelphia Tr. Amer. ent. Soc. **32**, **sp. n.**

†*Archotaulius* **gen. n.**, *bavarius* **sp. n.** Bayern Kalk, HANDLIRSCH (617) Fossil. Ins.

Arctopsyche irrorata North Carolina, BANKS (15) Philadelphia Tr. Amer. ent. Soc. **32**, **sp. n.**

Atomija **gen. n.** near *Lepidostoma* (11), *modesta* **sp. n.** North Carolina (12), Id. T.c.

Atopsyche **gen. n.** near *Philopotamus*, *tripunctata* **sp. n.** Arizona, BANKS (17) T.c.

Beraeodes minuta L. pupa, SILFVENIUS (33) Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.

Brachycentrus subnubilus, larva, pupa and case, SILFVENIUS (21-26) f. 6 T.c.

Chimarra auronitens Celebes (89), *argentella* Jamaica (92), ULMER Leiden Notes Mus. Jentink **28**, **spp. n.**

Colpotaulius incisus larva and pupa, SILFVENIUS (29) Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 2.—*C. medialis* Illinois and Canada, BANKS (9) Philadelphia Trans. Amer. ent. Soc. **32**, **sp. n.**

Cyrnus trimaculatus larva and pupa (129) f. 34, *insolutus* larva (131) f. 35, SILFVENIUS Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.—*C. fraternus* N. America, BANKS (17) Philadelphia Tr. Amer. ent. Soc. **32**, **sp. n.**

Dipsendopsis simplex Oranje-Freistaat und Bas-Ogoué (85), *voluta* Celebes (87), ULMER Leiden Notes Mus. Jentink **28**, **spp. n.**

Erotèsis baltica larva, pupa and case, SILFVENIUS (77) f. 20 Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.

(N-9720 j)

Ganonema brevipenne **sp. n.** Borneo, ULMER (46) Leiden Notes Mus. Jentink **28**.

Glossosoma vernale larva and pupa, SILFVENIUS (159) f. 40 Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.

Glyptotaelius subsinuatus **sp. n.** Japan, ULMER (5) Leiden Notes Mus. Jentink **28**.

Goëra pilosa larva and pupa, SILFVENIUS (19) f. 5 Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.—*G. fuscula* North Carolina, BANKS (11) Philadelphia Tr. Amer. ent. Soc. **32**, **sp. n.**

Holocentropus auratus larva and pupa (125-128) f. 32, *stagnalis* larva and pupa (128) f. 33, SILFVENIUS Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.—*H. plavidus* Washington, BANKS (15) Philadelphia Tr. Amer. ent. Soc. **32**, **sp. n.**

Holostomis atrata larva, SILFVENIUS (9-12) Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 2.

Hydromanicus aurovittatus Java (80), *ungulatus* Deutsch Neu-Guinea (82), ULMER Leiden Notes Mus. Jentink **28**, **spp. n.**

Hydropsychidae, table of North American genera, BANKS (13) Philadelphia Tr. Amer. ent. Soc. **32**.

Hydropsyche; larvae (91-100), *H. saxonica* larva, pupa and case (100-102) f. 22, *angustipennis* larva, pupa and case, (103-105) f. 23, *instabilis* larva, pupa and case (105-107) f. 24, *lepidia* larva, pupa and case (108-111) f. 25; SILFVENIUS Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.—*H. silfvenii* Finland, ULMER, Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 8 (15), **sp. n.**—*H. osleri* (13), *hageni*, *slossonae*, *cockerelli*, (14), *bifida*, *kansensis*, (15), North America; BANKS Philadelphia Tr. Amer. ent. Soc. **32**, **spp. n.**

Lepidostoma lirtum larva, SILFVENIUS (29) f. 8, Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.

Leptocella texana San Antonio **sp. n.**, *exilis* nom. n. for *gracilis* Banks, BANKS (19) Philadelphia Tr. Amer. ent. Soc. **32**.

Leptocerus fulvus, larva and pupa (48-53) f. 11, *senilis* larva and pupa (53-57) f. 12, *annulicornis* pupa (57) f. 13, *aterrimus* larva and pupa (58-61)

f. 14, *cineus* larva and pupa (61-65) f. 15, *excisus* larva, pupa and case (65-68) f. 16; SILFVENIUS Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.—*L. sibiricus* Amur (36), *niveicornis* Goldküste (38), ULMER Leiden Notes Mus. Jentink **28**, spp. n.

Limnophilus borealis (34), *flavicornis* (38), *marmoratus* (40), *lunatus* (46), *affinis* (50), *bimaculatus* (53), *luridus* (57), metamorphoses; SILFVENIUS Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 2.—*L. capillatus* sp. n. Patagonien, ULMER (11) Leiden Notes Mus. Jentink **28**.

Lype sp. larva and pupa, SILFVENIUS (138-140) f. 37 Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.

Macronema sinuatum sp. n. Borneo, ULMER (71) Leiden Notes Mus. Jentink **28**.

Maniconeura albardana Siberia (26), *destructa* Dardjiling (28), ULMER T.c., spp. n.

Melanotrichia gen. n. (100), *singularis* sp. n. India merid. (101), ULMER T.c.

†*Mesotaulius* gen. n. *jurassicus* sp. n. Bayern Kalk, HANDLIRSCH (617) Fossil. Ins.

†*Mesotrichopteridium* gen. n., *pusillum* sp. n. Lias Mecklenburg, HANDLIRSCH (485) T.c.—†*M. purbeckianum* England, HANDLIRSCH (617) T.c.

Micrasema setiferum larva and pupa, SILFVENIUS (26) f. 7 Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.

Micropterna lateralis larva and case, SILFVENIUS (67) T.c. No. 2.

Molanna angustata larva, pupa, SILFVENIUS (38) f. 9 T.c. No. 6.—*M. cupripennis* sp. n. Celebes, ULMER (30) Leiden Notes Mus. Jentink **28**.

Molannodes zelleri larva and pupa, SILFVENIUS (40-43) f. 10 Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.

Monocosmoeus gen. n., *vanderweelii* Patagonien, (13), *pulcher* (16) Tierra del Fuego, spp. n.; *M. (Halesus) hyadesi* Jnl. Mab., ULMER Leiden Notes Mus. Jentink **28**.

Mortoniella gen. n. (95), *bilineata* sp. n. Ecuador und Sta. Catharina (97), ULMER T.c., spp. n.

Mystacides azurea pupa (69) f. 17, *longicornis* larva, pupa and case (71-74)

f. 18, SILFVENIUS Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.

Namamyio gen. n. *Sericostomatidae*, *plutonis* sp. n. California, BANKS (10) Philadelphia Tr. Amer. ent. Soc. **32**.

†*Nannotrichopteron* gen. n., *gracile* sp. n. Lias Mecklenburg, HANDLIRSCH (187) Fossil. Ins.

†*Necrotaulius* gen. n., *Necrotaulidae* fam. n., *dobbertinensis*, (483), *nanus*, *intermedius*, *similis*, *major*, (484), spp. n., Lias Mecklenburg, HANDLIRSCH T.c.

Neureclipsis bimaculata larva, SILFVENIUS (124) f. 30 Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.

Neuronia ruficornis larva (5), *clathrata* larva (6); SILFVENIUS T.c. No. 2.—*N. lapponica* larva and pupa, SILFVENIUS (5) f. 1 T.c. No. 6.

Notanatolica and *Triplectides*, systematic position, ULMER (38-40) Ann. Biol. lacustre Bruxelles **1**.

Notidobia ciliaris larva, SILFVENIUS (10) f. 3 Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.

Notiomyia gen. n. *Leptocerides*, for *Heteroplectron mexicanum* Banks, BANKS (18) Philadelphia Tr. Amer. ent. Soc. **32**.

Notiopsyche gen. n., *latipennis* sp. n. North Carolina, BANKS (11) T.c.

Oecetis confluens sp. n. Celebes, ULMER (41) Leiden Notes Mus. Jentink **28**.—*Oc. ochracea* larva and pupa (81) f. 21, *lacustris* (84), SILFVENIUS Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.

Oxyethira; hibernation, SILTALA Zs. wiss. Insektenbiol. **2** (356-358)—*O. inaeana* sp. n. Java, ULMER (102) Leiden Notes Mus. Jentink **28**.

†*Paratrichopteridium* gen. n., *arcatum* sp. n. Lias Mecklenburg, HANDLIRSCH (486) Fossil. Ins.

Philopotamus montanus larva case, SILFVENIUS (119) f. 28 Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.

Phryganea varia larva, SILFVENIUS (13) T.c. No. 2.

Phryganeides; table for determination of larvae found in Finland, SILFVENIUS (25-28) T.c.

Phylloicus bromeliarum (Fr. Müll) sp. n. Brazil, ULMER (56) Leiden Notes Mus. Jentink **28**.

Plectrocnemia navasi **sp. n.** India meridionalis, ULMER (84) T.c.—*P. auriceps* North Carolina, BANKS (17) Philadelphia Tr. Amer. ent. Soc. **32**, **sp. n.**

Plectromacronema **gen. n.**, *comptum* **sp. n.** Brasilien, ULMER (63) Leiden Notes Mus. Jentink **28**.

Polycentropus carolinensis, *dispar*, *arizonensis*, N. America, BANKS (16) Philadelphia Tr. Amer. ent. Soc. **32**, **spp. n.**

Polymorphanisus ocularis **sp. n.** West Java, ULMER (60) Leiden Notes Mus. Jentink **28**.

†*Pseudorthophlebia* **gen. n.**, *platyptera* **sp. n.** Lias Mecklenburg, HANDLIRSCH (185) Fossil. Ins.—†*P. brodiei* England Purlbeck, HANDLIRSCH (617) T.c., **sp. n.**

Pycnopsyche **gen. n.** *Limnephilides*, for *Limnephila scabripennis* Ramb., BANKS (9) Philadelphia Tr. Amer. ent. Soc. **32**.

Rhyacophila nubila larva and pupa (141–146) f. 38, *septentrionis* larva pupa and case (146–148) f. 39, SILFVENIUS Helsingfors Acta Soc. Fauna Flora Fenn. **27** No. 6.—*R. rougemonti* var. n. *siemla*, MORTON (106) Entomologist 1906.—*R. hyalinata* Colorado **sp. n.**, *coloradensis* nom. n. for *stigmatica* Banks, BANKS (10) Philadelphia Tr. Amer. ent. Soc. **32**.

Scricostoma personatum larva, SILFVENIUS (13) Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.

Setodes floridana Biscayne bay, BANKS (19) Philadelphia Tr. Amer. ent. Soc. **32**, **sp. n.**

Silo pallipes larva and pupa, SILFVENIUS (15) f. 4, Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.

Sphinctojaster nigrosoma New York **sp. n.**; *lutescens* Prov.; BANKS (12) Philadelphia Trans. Amer. ent. Soc. **32**.

Stenophylax dubius (61), *infumatus* (63), metamorphoses, SILFVENIUS Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 2.—*S. kanensis* **sp. n.** Kanin-Halbinsel, MARTYNOV St. Petersburg Zap. Russ. Geogr. Obšč. **41** (267–275).—*S. parvulus* New Hampshire, BANKS (9) Philadelphia Tr. Amer. ent. Soc. **32**, **sp. n.**

Tinodes waeneri larva, SILFVENIUS (135) f. 36, Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.

Trianodes bicolor larva and pupa, SILFVENIUS (74–77) f. 19, T.c.—*T. reuteri* (N-9720 j)

race found in Scotland, MORTON (270) Ent. Mag. London **42**.

Triplectides gracilis (32–37), *obsoleta* and *amabilis* (37), early stages, ULMER Ann. Biol. lacustre Bruxelles **1**.

Wormaldia subnigra pupa, SILFVENIUS (120) f. 29, Helsingfors Acta Soc. Fauna Fl. Fenn. **27** No. 6.—*W. mediana* Nicaragua, BANKS (18) Philadelphia Tr. Amer. ent. Soc. **32**, **sp. n.**

NEUROPTERA (incl. Panorptae).

Neuroptera. venation; McCLENDON Ent. News **17** (116–121).

Neuroptera Danica, Planipennia, (Danish); PETERSEN København Ent. Medd. **3** (21–19).

Monographie der Coniopterygiden; ENDERLEIN Zool. Jahrb. Syst. **23** (173–242) 6 Taf.

Alemella **nom. n.** (208) (= *Alema* Enderl. 1905); *boliviensis* **sp. n.** Bolivia (209); ENDERLEIN T.c.

Allochrysa arizonica **sp. n.** Palmerlee, BANKS (98) Psyche **13**.

Boriomyia **gen. n.** *Hemerobiidae* type *disjunctus* Banks (36), *posticata* Utah **sp. n.** (39), BANKS Philadelphia Tr. Amer. ent. Soc. **32**.

Brachynemurus currici **sp. n.** Texas, McCLENDON (93) Ent. News **17**.

Calinemurus fuscus Arizona, BANKS (6) Philadelphia Tr. Amer. ent. Soc. **32**, **sp. n.**

Chauliodes punctatoguttatus (= ♀ ♀ *dispar* v.d. Weele) Java, C. *sundaicus* Sumatra; **spp. n.**, WEELE, (143) Leiden Notes Mus. Jentink **28**.—*C. dispar* **sp. n.** Java and Sumatra, WEELE T.c. (219).

Chrysopa vulgaris var. n. *barnolai*, *subcubitalis* var. n. *sordidata*, NAVÁS (137) Zaragoza Bol. Soc. Aragon. **5**.—*C. majuscula* nom. n. pro *erythrocephala* Banks, *injuncta* nom. n. pro *marginalis* Banks, BANKS (98) Psyche **13**.—*C. marginalis*, *robusta*, N. America, *fascialis* Mexico, BANKS (5) Philadelphia Tr. Amer. ent. Soc. **32**, **spp. n.**

Coniocompsa vesicul'gera Malacca **sp. n.** (224), ENDERLEIN Zool. Jahrb. Syst. **23**.

Coniopterygidae; the swedish; TULLGREN Uppsala Arkiv. Zool. **3** No. 5.

Coniopteryx reticulata Sweden, TULLGREN (14) T.c., **sp. n.**—*C. angustipennis* Paraguay (208), *biroi* New Guinea (203), *callangana* Peru (207), *maculithorax* Australia (204), *pygmaea* Berlin (201), *ralumensis* New Britain (203), **spp. n.**, *lineiformis* var. *n. transversalis* (200), ENDERLEIN Zool. Jahrb. Syst. **23**.—*C. vicina*, cocoons and young, EMERTON Psyche **13** (74-75).

Conwentzia pineticola varr. *n. fureilla* (194) *tetensi* (195), ENDERLEIN Zool. Jahrb. Syst. **23**.

Cymothales mirabilis pl. ix f. 1, *liberiensis* f. 2, Klapálek (323) Madrid Mem. Soc. esp. Hist. nat. **1**.

Dendroleon speciosum Colorado, BANKS (7) Philadelphia Tr. Amer. ent. Soc. **32**, **sp. n.**

Dicolpus bicolor Biafra, Klapálek (325) Madrid Mem. Soc. esp. Hist. Nat. **1**, **sp. n.**

Episperehus taeniatus G. = *impediens* Wlk.; *irideus* G. = *iniquus* Wlk.; WEELE Leiden Notes Mus. Jentink **26** (226-228).

Eremochrysa californica Santa Clara, BANKS (6) Philadelphia Tr. Amer. ent. Soc. **32**, **sp. n.**

Haplogenus fervidus and *hilaris* G. = *H. albistigma* Wlk., welcher wahrscheinlich identisch mit *Byas microcerus* Rbr. ist; *H. dentiger* G. ist *flavicornis* M. L., *maculipennis* Taschb. to *Alloeoromodes*, *H. raeuus* G. to *Episperehes*, WEELE Leiden Notes Mus. Jentink **26** (226-228).

Helicoconis australiensis, *maculata*, Australia, (222), *pistrix* (233), *garleppi* (234), Peru, **spp. n.**, ENDERLEIN Zool. Jahrb. Syst. **23**.

Helicomitus, Mac Lachl., synonymical notes (200), *H. etenocerus* G. = *Acheron trux* Wlk. (226-228), WEELE Leiden Notes Mus. Jentink **26**.

Hemerobiinae of Silesia and Galicia, DUGOFIELERICH Kraków Spraw. Kom. fkyogr. **39** (23-31).

Hemerobiidae; revision of N. American with catalogue, BANKS (21-51) pls. iii-v. Philadelphia Tr. Amer. ent. Soc. **32**.

Hemerobius cationi Canary islands MORTON (147) Ent. Mag. London **42**, **sp. n.**—*H. simplex* Arizona, BANKS (32) Philadelphia Tr. Amer. ent. Soc., **sp. n.**

Heteroconis dahli Bismarck Arch., *ornata*, (228), *varia* (229), Australia, **spp. n.**, ENDERLEIN Zool. Jahrb. Syst. **23**.

Josandrewa **gen. n.** (134) near *Croce*, *sazi* **sp. n.** Alicante (135), NAVÁS Zaragoza Bol. Soc. Aragon **5**.

Leucochrysa antennata Mexico, BANKS (5) Philadelphia Tr. Amer. ent. Soc. **32**, **sp. n.**

Lomamyia **gen. n.** *Hemerobiidae* for *flavicornis* Walk. and *texana* Banks; BANKS (28) T.c.

Mantispa perla var. nov. *brunnea*, NAVÁS (102) Madrid Bol. Soc. espan. **6**.

Maracandula bellula N. America, BANKS (7) Philadelphia Tr. Amer. ent. Soc. **32**, **sp. n.**

Megalomus minor Nevada and Nicaragua, BANKS (43) T.c.

Myrmecoleon formicarius, Lebensdauer, MEISSNER Insektenbörse Leipzig **23** (131-132); *Myrmeleo* f. larvae and pupae habits, LUCAS and CHAPMAN (53-57) cuts London Trans. ent. Soc. 1906; *Myrmeleon* f. (5) pl. i f. 5, *leucostigmatus* **sp. n.** (9) pl. i f. 4 Kamerun, WEELE Uppsala Arkiv. Zool. **3** No. 2.

Osmylus camerucensis Africa, WEELE (12) pl. i f. 1 T.c., **sp. n.**

Palpares hildebrandti, *voeltzkowi*, (139), *amitinus* (140), Madagascar, **spp. n.**, KOLBE Insektenbörse **23**.

Panorpa; prey in Britain, POULTON (402) London Trans. ent. Soc. 1906.—*P. carolinensis* N. America, BANKS (8) Philadelphia Tr. Amer. ent. Soc. **32**, **sp. n.**—*P. virginica* **sp. n.** N. America, BANKS (99) Psyche **13**.

Panorpodes carolinensis N. America, BANKS (8) Philadelphia Tr. Amer. ent. Soc. **32**, **sp. n.**

Parasemidalis farinosa (222), *metallica* (221), Australia, *phaeoptera* Peru (223), **spp. n.**, ENDERLEIN Zool. Jahrb. Syst. **23**.

Psammoleon guttipes **sp. n.** = (*Myrmeleon ingeniosus* Hag.) BANKS (99) Psyche **13**.

Puer pardalis G. ist vielleicht eine *Theleproctophylla*-Art, WEELE Leiden Notes Mus. Jentink **26** (226-228).

Raphidia occulta N. America, BANKS (4) Philadelphia Tr. Amer. ent. Soc. **32**, **sp. n.**

Semidalis africana Nyassa (214), *curtisiana* Berlin (212), *fülleborni* E. Africa (215), *kolbei* Chile (217) *nivosa*, *pruinosa*, *scobis*, Peru, (216), **spp. n.**, ENDERLEIN Zool. Jahrb. Syst. 23.

Sisyra; larva with *Spongilla*; AN-NANDALE (194) pl. i f. 2 Calcutta J. As. Soc. 2.

Suphalasca placida G. = *Helicomitus immotus* Wlk., *S. rectila* G. and *bacillus* G. to *Eneyoposis*, *S. euryptera* G. to *Dicolpus*, WEELE Leiden Notes Mus. Jentink 26 (226–228).—*S. floridana* **sp. n.** S. Florida, BANKS (99) Psyche 13.

Symphorobius **gen. n.** *Hemerobiidae*, type *disjunctus* Banks, BANKS (40) Philadelphia Tr. Amer. ent. Soc. 32.

Theleproctophylla ? *sjostedti* Kamerun, WEELE (2) pl. i f. 3 Uppsala Arkiv. Zool. 3 No. 2, **sp. n.**

Ulula praeclens G. to *Cordulecerus*, WEELE Leiden Notes Mus. Jentink 26 (226–228).

(*Croce attenuata* Charters Towers-Queensland, FROGGATT, Sydney, N.S.W. Proc. Linn Soc., 29 (675, pl 20 f. 1), **sp. n.**)

(*Parasemidalis* **gen. n.**, (197), *annae*, Brandenburg, (198) **sp. n.** ENDERLEIN, Entomol. Ztg. Wien 24 1905.)

(*Semidalis* **gen. n.**, ENDERLEIN, T.c. (197–198).)

†Fossil Neuroptera.

Actinophlebia **gen. n.** for *Pterinoblattina megapolitana* Gein., HANDLIRSCH (476) Foss. Ins.

Apeiophlebia **gen. n.**, *grandis* **sp. n.** Lias Mecklenburg, HANDLIRSCH (477) T.c.

Archagetes **gen. n.** *Prohemerobiidae* (604), *neuroptorum* **sp. n.** Bayern Kalk (605), HANDLIRSCH T.c.

Brogniartiella inconditissimi Bayern Kalk, HANDLIRSCH (607) T.c., **sp. n.**

Callopanorpa **gen. n.** for *Orthophlebia bifurcata* Giehl., HANDLIRSCH (616) T.c.

Chaulioditidae fam. n. for *Chauliodites* Heer and *Triadosialis*, infra.

Creagoptera **gen. n.** *Prohemerobiidae*, *schwertschlagerei* **sp. n.** Bayern Kalk, HANDLIRSCH (605) T.c.

Dicranoptila **gen. n.**, *deichmulleri* **sp. n.** Bayern Kalk, HANDLIRSCH (608) T.c.

Ineptiae **gen. n.**, *meunieri* **sp. n.** Bayern Kalk, HANDLIRSCH (614) T.c.

Kalligrammidae fam. n. for *Kalligramma* Walth. and *Meioncurites*, HANDLIRSCH (610) T.c.

Meioneurites **gen. n.**, *schlosseri* **sp. n.** Bayern Kalk, HANDLIRSCH (612) T.c.

Mesochrysopa **gen. n.** *Mesochrysopidae* am. n., for *Hageniatermes zitteli* Meun., HANDLIRSCH (613) T.c.

Mesoleon **gen. n.**, *dobbertinianus* **sp. n.** Lias Mecklenburg, HANDLIRSCH (477) T.c.

Mesopanorpa **gen. n.** *Orthophlebiidae* for *Panorpa hartungi* Br., HANDLIRSCH (615) T.c.

Mesopsychopsis **gen. n.** for *Ricania hospes* Germ., HANDLIRSCH (607) T.c.

Neorthophebia **gen. n.** *Panorpata*, *maculipennis*, *minor*, (479), *debilis* (480), **spp. n.** Lias Mecklenburg, and *Orthophlebia megapolitana* Gein., HANDLIRSCH T.c.

Nymphitidae fam. n., HANDLIRSCH (608) T.c.

Nymphites lithographicus Bayern Kalk, HANDLIRSCH (609) T.c.

Orthophlebia germanica, *geinitzi*, Lias Mecklenburg, HANDLIRSCH (481) T.c., **spp. n.**

Orthophlebiidae fam. n. *Panorpata*, HANDLIRSCH (479) Fossil. Ins.

Orthophlebioides **gen. n.**, *fuscipennis* (481), *limnophilus*, *reticulatus*, *latipennis* (482), **spp. n.**, Lias Mecklenburg, HANDLIRSCH T.c.

Osmylopsis **gen. n.** for *Abia duplicata* Giebel, HANDLIRSCH (614) T.c.

Palparites **gen. n.**, *deichmulleri* **sp. n.** Bayern Kalk, HANDLIRSCH (614) T.c.

Paractinophlebia **gen. n.** for *Pterinoblatta curtisii* Scudd., HANDLIRSCH (477) T.c.

Prohemerobius **gen. n.** *Prohemerobiidae* fam. n., *dilaroides*, *geinitzianus*, (474), *prodromus*, *parvulus*, *major*, *liasinus*, (475), *geinitzi* (476), **spp. n.**, Lias Mecklenburg, HANDLIRSCH T.c.

Pseudomyrmeleon **gen. n.** for *Myrmeleon extinctus* Weyenb., HANDLIRSCH (614) T.c.

Pseudopolycentropus **gen. n.** for *Phryganidum perlaciformis* Gein., HANDLIRSCH (482) T.c.

Solenoptilon **gen. n.** *Solenoptilidae* fam. n. for *Abia kochi* Gein., HANDLIRSCH (478) T.c.

Stenopanorpa **gen. n.** for *Panorpa gracilis* Gieb., HANDLIRSCH (616) T.c.

Triadosialis **gen. n.** for *Chauliodites zinkenii* Heer, HANDLIRSCH (104) Fossil. Ins.

DIPTERA.

New classification, with phylogeny, LAMEERE (105-140) Bruxelles Mem. Soc. ent. Belgique 12.

Wing-nervuration, nomenclature of, WILLISTON Psyche 13 (154-157) cut.

Terminologie der Beborstung der Dipteren-Beine; SCHNABL Entomol. Ztg. Wien 25 1906 (269-272).

Tables of British Diptera, with vii plates, one descriptive of the parts, WINGATE Newcastle Trans. Nat. Hist. Soc. 2 (416).

CECIDOMYIIDAE.

Cecidomyiden-Larven, endoparasitisch lebend in *Psylla*, MEYERE's Gravenhage Tijdschr. Ent. 49 (xxi-xxii).

Cecidomyiidae on vines, RÜBSAAMEN Zs. wiss. Insektenbiol. 2 1906 (129-137, 185-198, 225-237).

Gall (of *Rhopalomyia*?) on *Pyrethrum*, RUDNEFF Marcellia 5 (23-26).

Arthroenodax vitis natural history, RÜBSAAMEN (234) Zs. wiss. Insektenbiol. 2.

Asphondylia baccharis Chile, KIEFFER and HERBST (230) Bruxelles Ann. Soc. Scient. 30, sp. n.

Bremia tocomae New York, FELT (127) Albany N.Y. Bull. St. Mus. 104, sp. n.

Bruggmannia **gen. n.** near *Schizomyia* (81), *braziliensis* **sp. n.** Rio Grande do Sul (82), TAVARES Broteria 5.

Cecidomyia virginianae (130), *sambuci* (131), New York, FELT Albany N.Y. Bull. St. Mus. 104, spp. n.—*C. rosaria* Lw., Wüst Prakt. Bl. Pflanzenschutz 4 (49-51).

Clinodiplosis chilensis (231), *floralis* (233), Chile, KIEFFER and HERBST Bruxelles Ann. Soc. Scient. 30, spp. n.—*C. acinorum* **sp. n.** Germany on *Vitis* (231); *C. vitis* metamorphosis and natural history (226-231); RÜBSAAMEN Zs. wiss. Insektenbiol. 2.

Contarinia viticola Germany, RÜBSAAMEN (194) T.c., **sp. n.**—*C. torquens* Holland, injurious to cabbage, DE MEIJERE (18-24) pl. iii figs. 1-6's Gravenhage Tijdschr. Ent. 49, sp. n.—*C. coceiferae* ♂, TAVARES (79) Broteria 5.

Dasyneura gardoquiae Chile, KIEFFER and HERBST (224) Bruxelles Ann. Soc. scient. 30, sp. n.—*D. leguminicola*, WEBSTER Washington Cir. U. S. Dept. Agric. Bur. Ent. No. 69.—*D. pseudacaciae*, FELT (125-127) figs. 31-38 Albany N.Y. Bull. St. Mus. 104.

Janetiella acuticauda Chile, KIEFFER and HERBST (227) Bruxelles Ann. Soc. scient. 30, sp. n.

Lasioptera carbonifera New York, FELT (116) Albany N.Y. Bull. St. Mus. 104, sp. n.

Leptodiplosis parrieida Germany, RÜBSAAMEN (233) Zs. wiss. Insektenbiol. 2, sp. n.

Macrolabis scrophulariae Portugal, TAVARES (77) Broteria 5, sp. n.

Mayetiola destructor, WEBSTER Washington D.C. Cir. U. S. Dept. Agric. Bur. Ent., No. 70 (1-16).

Mycodiplosis plasmopora Germany, RÜBSAAMEN (234) Zs. wiss. Insektenbiol. 2, sp. n.

Perrisia; larvae described, TAVARES (78, 79) Broteria 5.—*P. rapunuli* Mayence, KIEFFER (347) Bruxelles Ann. Soc. scient. 30, sp. n.—*P. bragançae* Portugal, TAVARES (298) Broteria 3, sp. n.—*P. gracilicornis* Chile, KIEFFER and HERBST (225) Bruxelles Ann. Soc. scient. 30, sp. n.—*P. crataegi*, galls, KÜSTER (41-46) Marcellia 5.

Porricondyla (*Dicroneurus*) *argentina* Holland, DE MEIJERE (24-28) pl. iii figs. vii-xxi's Gravenhage Tijdschr. Ent. 49, sp. n.

Procontarinia **gen. n.**, *matteiana* **sp. n.** Palermo on *Mangifera indica*, KIEFFER and CECCONI (135) Marcellia 5.

Resseliella **gen. n.** *Diplosis*-Gruppe, *piceae* Idria **sp. n.**, SEITNER (174-186) Wien Verh. zool.-bot. Ges. 1906.

Rhabdophaga; table of nymphs (72-74); *R. insignis* Italy on *Salix purpurea* (70), *perforans* France on *Salix* (71), **spp. n.**; KIEFFER *Marcellia* 5. — *R. nielsenii*, **sp. n.** Denmark, KIEFFER Kjöbenhavn Ent. Medd. 3 (1-4). — *R. batatus* Walsh (119-122); *R. rigidae* **sp. n.** New York (122-124); FELT Albany N.Y. Bull. St. Mus. 104.

Rhopalomyia hispanica (295), *navasi* (296), Spain, *valerii* Setubal (299), TAVARES *Broteria* 3, **spp. n.**

Stefaniella salsolae Spain, TAVARES (293) T.c., **sp. n.**

(*Loewiola serratulae* GOURY et GUIGNON, Feuille jeunes natural., 35, **sp. n.**)

(*Schizomya gennadii* MARCHAL, Paris Bul. Soc. ent. 1904, (272) **sp. n.**).

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Macrocera striatipennis Spain, STROBL (392) Madrid Mem. Soc. esp. 3, **sp. n.** — *M. fasciata*, larva, webs etc. ENSLIN Zs. wiss. Insektenbiol. 2 (251-253).

Neoglaphyroptera subtrifasciata Spain, STROBL (393) Madrid Mem. Soc. esp. 3, **sp. n.**

Peyerimhoffia crassipes Digne, KIEFFER (313) Bruxelles Ann. Soc. scient. 30, **sp. n.**

†*Pseudadonia* **gen. n.** for *Platyura fittoni* Brod., HANDLIERSCH (629) Fossil. Ins.

Sciara speculum (199), *trileucartha* (200), Eritrea, BEZZI Firenze Boll. Soc. entom. 37, **spp. n.**

Sciophilula andreinii Eritrea, BEZZI (202) T.c., **sp. n.**

CHIRONOMIDAE.

The subfamilies, and their genera, KIEFFER (314-319) Bruxelles Ann. Soc. scient. 30.

The genera and lists of species; KIEFFER Gen. ins. 42.

Ablamesmyia (? same as *Isoplastus*); *A. caliptera* **sp. n.** Bitche, KIEFFER (321) Bruxelles Ann. Soc. scient. 30.

Belgica antarctica, RÜBSAMEN (77-83) pl. v Résult. Belgica, Zoologie.

Camptoeladius foliatus Bitche, KIEFFER (334) Bruxelles Ann. Soc. scient. 30, **sp. n.**

Ceratopogon alonensis (396), *quadrimaculata* (399), *multiannulatus*, *defectivus* (400), Spain, **spp. n.**, STROBL Madrid Mem. Soc. esp. 3. — *C. mulleri* Thuringia, KIEFFER (336) Bruxelles Ann. Soc. scient. 30, **sp. n.** — *C. setosicrus*, Chile, KIEFFER (357) T.c., **sp. n.** — *C. guttipennis* **sp. n.** Neu-Guinea, MEIJERE Nova Guinea 5 Livr. 1 (69), f. 1. — *C. varius* (14) f. 1, *pulicaris* (15) f. 2, pl. i, AUSTEN Brit. blood-suck. flies.

Chironomus heteropus Bitche, KIEFFER (335) Bruxelles Ann. Soc. scient. 30, **sp. n.** — *C. novaeguineensis* **sp. n.** Neu-Guinea, MEIJERE Nova Guinea 5 Livr. 1 (69) f. 2. — *C. annularis*, oviposition; NEEDHAM (299) Science 24. — *C.* and *Tanypus*; larvae with *Spongilla*; ANNANDALE (190-194) Calcutta J. As. Soc. 2.

Clunio bicolor ♂ pl. iv f. 1, *marinus* ♀ f. 12, KIEFFER (4) Gen. ins. 42.

Corynoneura bitensis Bitche, KIEFFER (328) Bruxelles Ann. Soc. Scient. 30, **sp. n.**

Cricotopus polychromus Bitche, KIEFFER (328) T.c., **sp. n.**

Isoplastus johannseni Bitche, KIEFFER (323) T.c., **sp. n.**

Jacobiella **gen. n.** for *Belgica magellanica* Jacobs, RÜBSAMEN (83-85) pls. iv and v Résult. Belgica, Zoologie.

Metrioctenemus scirpi ♂, KIEFFER (331) Bruxelles Ann. Soc. Scient. 30.

Orthoeladius brevicornis (331), *musci-cola* (332), Bitche, **spp. n.**, *O. sordidelus* Zett. (333), KIEFFER T.c. — *O. thienemannii* (143), *O. (Psectrocladius) psilopterus* (144), **spp. n.**, Germany, with life-histories, KIEFFER Zs. wiss. Insektenbiol. 2 (113-156). — *O. macrorhynchus* (353), *chilensis* (354), *fissicornis* (355), Chile, KIEFFER Bruxelles Ann. Soc. scient. 30, **spp. n.**

Procladius anomalus Bitche, KIEFFER (319) T.c., **sp. n.**

Protanypus **gen. n.** near *Anatopynia*, KIEFFER (318) T.c.

Psilotanypus **gen. n.** near *Procladius*, KIEFFER (318) T.c.

Tanypus septemmaculatus Bitche, KIEFFER (323) T.c., **sp. n.** — *T. signifer* **sp. n.** Neu-Guinea, MEIJERE Nova Guinea 5 Livr. 1 (71) f. 3. — *T. dyari* larva, fig., MITCHELL Ent. News 17 (244-246).

Tanytarsus bilineatus Bitché, KIEFFER (330) Bruxelles Ann. Soc. Scient. **30**, sp. n.

Trichotanyptus gen. n. near *Tanyptus*, KIEFFER (319) T.c.

CULICIDAE.

Classification of *Culicidae* discussed, value of certain characters, WILLISTON (384-388) Canad. Entomol. **38**.

Classification, three subfamilies defined, DYAR Science **23** (233).

Classification of the mosquitoes of North and middle America; COQUILLETT Washington D.C. Tech. Ser. U. S. Dept. Agric. Bur. Ent. No. 11 1906 (1-31).

Larval characters and classification; CHRISTOPHERS Sci. Mem. Med. Ind. N. ser. No. **25** (1-18) 3 plates.

Studies in *Culicidae*; descriptions and key of larvae, plates of genitalia, descriptions of little known N. American forms; FELT Albany N.Y. St. Mus. Bull. **97** (442-497) plates i-xix.

Larvae; Notes on Grabham's paper last year; [DYAR] New York J. ent. Soc. **14** (110).

Notes on recently described American mosquitoes with descriptions of new species; DYAR & KNAB Washington Proc. Biol. Soc. **19** (159-172).

Alimentary canal, in stages of *Culex*; THOMPSON Boston Mass. Proc. Soc. **32** (145-202) plates xii-xvii.

Notes on the gnats and their development (Norw.), LIE-PETTERSEN Bergen Naturen **30** (129-141).

The larvae of *Culicidae* classified as independent organisms; DYAR and KNAB New York J. Ent. Soc. **14** (169-230) plates iv-xvi.

Mouth parts of mosquito larvae as indicative of habits; MITCHELL Psyche **13** 1906 (11-21).

Key to the known larvae of the mosquitoes of the United States; DYAR Washington D.C. Cir. U. S. Dept. Agric. Bur. Ent. No. **72** (1-6).

Illustrations of mosquito larvae, 24 spp.; DYAR Washington Proc. Ent. Soc. **8** (15-21) plates ii-v.

Catalogne of *Culicidae* of Africa, BEZZI (207-212) Firenze Boll. Soc. entom. **37**.

Music of some *Culicidae*; WEBER (380-382) Ent. News **17**.

Studi e ricerche etologiche; GALLI-VALERIO e ROCHAZ DE JONGH, Roma Atti Soc. studi malaria **7** 1906 (1-17).

Goeldi's "Os mosquitos no Pará." KNAB New York J. Ent. Soc. **14** 1906 (57-76).

Aèdeomyia africana Centr. Africa, NEVE-LEMAIR (273) Arch. parasit. **10**, sp. n.

Aedes tormentor Louisiana (191), *meridionalis* Costa Rica, *philosophicus* Mexico, (195), *infirmatus* Louisiana (197), *habanicus* Cuba, *atlanticus* N. America, (198), *hemisurus* Jamaica, *euplocamus* Costa Rica, (199), *grossbecki* (201), *quaylei* (202), N. America, DYAR and KNAB New York J. Ent. Soc. **14**, spp. n.—*A. auratus* (313) with larva (315), *pertinax* (316) with larva (317), Jamaica, GRABHAM Canad. Entomol. **38**, spp. n.—*A. affirmatus* (164), *podographicus* (165), Centr. America, DYAR and KNAB Washington Proc. Biol. Soc. **19**, spp. n.

Anopheles philippinensis sp. n. LUDLOW, J. American Medical Assoc. **39** 1902 (426-427).—*A. restitipennis*, *strigimacula*, *apicimacula*, *punctimacula*, Centr. America, DYAR and KNAB (136) Washington Proc. Biol. Soc. **19**, spp. n.—*A. occidentalis* (159), *atropos*, N. America, *bellator* Trinidad, (160), DYAR and KNAB T.c., spp. n.—*A. crucians*, characters amended, LUDLOW (296) Canad. Entomol. **38**.—*A. maculipennis* abundance à Lyon, CONTE et VANEY Paris C.-R. Acad. Sci. **143** (778).—*A. nigripes* (18) pl. ii, *bifurcatus* (19) pl. iii, *maculipennis* (20) pl. iv, AUSTEN Brit. blood-suck. flies.—*A. clariger*, Lebensweise, Eigenschaften, Bekämpfung, PORTSCHINSKY Trd. B. entom. učen. Kom. M. Leml. St. Peterburg **5** (1-135 + 1) mit 73 Fig.—*A.* in Seawater, VOGEL Batavia Geneesk. Tijdschr. Ned. Ind. **46** (66-85).—*A. superpictus* and Malaria in Athen, PEZOPOULO und CARDAMATI Centralbl. Bakt. Jena Abt. 1 **40** Originale 1906 (344-350) 2 Taf. and (480-495) 2 Taf.—*A. habits* Susquehanna River, WEBER (280, 281) Ent. News **17**.

Cacomylia gen. n., COQUILLETT Washington Tech. Ser. U. S. Dept. Agric. Bur. Ent. **11**.

Cellia tananariviensis Madagascar, VENTRILLON (198) Bull. Mus. Paris **12**, sp. n.

Ceratocystia gen. n. for *Culex* dis-color larva, DYAR and KNAB (183) New York J. Ent. Soc. **14**.

Coelodiaezis gen. n. for *Anopheles barberi* larva, DYAR and KNAB T.c.

Corethra; sense-organ on head, RÁDL Zool. Anz. **30** (169–170).—*C. fuliginosus* New York, FELT (458 and 496) Albany N.Y. St. Mus. Bull. **97**, sp. n.

Corethrella appendiculata sp. n. Jamaica, GRABHAM Ent. News **17** (343–345).

Culex; and allies, generic synonymy, cf. *Lepidoplatys*, *Lepidosia*; COQUILLET (314) Science **23**.—On the breaking-up of the genus, COQUILLET Science New York **23**, 1906 (312–314).—*C. nearei* (76), *rubinotus* (78), Sudan, THEOBALD Rep. Wellcome Lab. **2**, spp. n.—*C. zeltneri* (251), *somaliensis* (251), *pygmaeus* (256), *didieri* (257), Tropical Africa, NEVEU-LEMAIRE, Arch. parasitol. **10**, spp. n.—*C. cartroni* Madagascar, VENTRILLON (429) Bul. Mus. Paris 1905, sp. n.—*C. gigantea* (100), *neireti* (101), Madagascar, VENTRILLON Bull. Mus. Paris **12**, spp. n.—*C. rizali*, Philippines sp. n., BANKS (999) Philippine J. Sci. **1**.—*C. lativittatus* sp. n. California, COQUILLET (109) Ent. News **17**.—*C. friekii* Minnesota, LUDLOW (132) Canad. Entomol. **38**, sp. n.—*C. sylvicola* New Jersey, GROSSBECK (129) Canad. Entomol. **38**, sp. n.—*C. hassardii* Jamaica (167), larva (170), GRABHAM Canad. Entomol. **38**, sp. n.—*C. lactator interrogator*, (209), Centr. America *barbarus* Trinidad, *bahamensis* Bahamas, *mortificator* Costa Rica, *carmodyae* San Domingo (210), *extricator*, *declarator*, Trinidad, *proclamator* Mexico, *inquisitor* Trinidad, (211), *habilitator* San Domingo, *factor* Centr. America and Antilles, (212), *regulator* San Domingo (214), *coronator* Centr. America and Trinidad (215), *derivator*, *investigator*, Mexico, *inhibitor* San Domingo, *mutator* Mexico, (216), *elerator*, *educator*, Costa Rica, *conspirator* Mexico (217), *simulator* Trinidad, *gravitator* Mexico, *decorator* Tobago isld., (218), *lamentator* (219), *carcinophilus*, San Domingo, *daumas-turus*, *vector*, Trinidad, (220), *rejector*,

Mexico, *inimitabilis*, *conservator*, Trinidad, (221), *restrictor* Mexico, *divisor* Trinidad (222); DYAR and KNAB New York J. Ent. Soc. **14**, spp. n.—*C. azymus*, *basilicus consolator*, (169), *bastagarius* (170), Trinidad, DYAR and KNAB Washington Proc. Biol. Soc. **19**, spp. n.—*C. carmodyae* subsp. n. *mollis* (171), DYAR and KNAB T.c.—*C. squamiger* = (*Grabhamia de neidmannii* Ludl.), LUDLOW (132) Canad. Entomol. **38**.—*C. cantans* (24) pl. vi, *nemorosus* (25) pl. vii, *pipiens* (25) pl. viii, AUSTEN Brit. blood-suck. flies.—*C. varipalpus* Coq. = (*Tacniorhynchus sierrensis* Ludl.), the genus doubtful; LUDLOW (132) Canad. Entomol. **38**.—*C. hirsutipalpis* in Benguela, WELLMANN, (116) Entomologist 1906.—*C. curriei*, habits, oviposition, QUAYLE (4) Ent. News **17**.—*C. pipiens*, gregarious, KNAB Psyche **13** (123–133); habits, WEBER Ent. News **17** (214–217); number of eggs, DAVIS (368) Ent. News **17**.—*C. varipalpus*, larva, BLAISDELL Ent. News **17** (107–109) pl.

Culicada subcantans N. America, FELT (474) Albany N.Y. St. Mus. Bull. **97**, sp. n.—*C. canadensis*, WEBER Ent. News **17** (279–283).

Culicelsa auroides New York, FELT (449) Albany N.Y. St. Mus. Bull. **97**, sp. n.

Culiseta maccrackenae California (133), *dugesii* Mexico (134), DYAR and KNAB Washington Proc. Biol. Soc. **19**, spp. n.

Dendromyia sp. n., GRABHAM (173) Canad. Entomol. **38**.

Deinocerites cancer, larva, KNAB Psyche **13** (95–97) pl. v.

Etorleptomyia Th. = (*Oriellia* Ludl.), LUDLOW (185) Canad. Entomol. (38).

Finlaya aranetana sp. n. Philippines, BANKS (1001) Philippine J. Sci. **1**.

Grabhamia nigromaculis sp. n. America, LUDLOW Washington George Washington Univ. Bull. **5** (83–84).—*G. de neidmannii* cf. *Culex squamiger*.

Haemagogus regalis sp. n. Centr. America, DYAR and KNAB (167) Washington Proc. Biol. Soc. **19**.

Howardina aureostriata Jamaica (171), larva (172), GRABHAM Canad. Entomol. **38**, sp. n.

Isostomyia **gen. n.**, COQUILLET Washington Tech. Ser. U. S. Dept. Agric. Bur. Ent. **11**.

Jamesia **gen. n.** for *Culex concolor* and *tigripes*, CHRISTOPHERS Sci. Mem. Med. Ind. N.S. No. **25** (12).

Janthinosoma terminalis **sp. n.** N. America?, COQUILLET Washington Tech. Ser. U. S. Dept. Agric. Bur. Ent. **11**.—*J. sayi* nom. n. for *Culex musicus* Say (181), *J. infine* Trinidad and St. Domingo **sp. n.** (182), DYAR and KNAB New York J. Ent. Soc. **14**.—*J. indoctum* **sp. n.** Trinidad, DYAR and KNAB (161) Washington Proc. Biol. Soc. **19**.—*J. vanhalli* Surinam, *champerico* Guatemala, *coffini* Bahamas, (134), *schwarzi* Cuba, *texanum* Texas, *floridense* Florida, *toltecum* Mexico, *columbiae* N. America, *insularius* San Domingo, (135), DYAR and KNAB T.c., **spp. n.**—*J. echinata* (311) with larva (312), Jamaica, GRAHAM Canad. Entomol. **38**, **sp. n.**—*J. jamaicensis* larva, KNAB (96) pl. vi Psyche **13**.

Lepidoplatys **gen. n.** type *Culex squamiger*, COQUILLET (314) Science **23**.

Lepidopia **gen. n.** type *Culex eyanescens*, COQUILLET (314) T.c.

Lesticocampa **gen. n.** for *Joblotia lunata* larva, DYAR and KNAB (226) New York J. Ent. Soc. **14**.—*L. repax* Trinidad, *romplesseni* Ecuador, *leucopus*, *ulopus*, Central America, DYAR and KNAB (137) Washington Proc. Biol. Soc. **19**, **spp. n.**

Mansonia arabica N. Arabia, GILES (130) J. trop. Medicine London **9**, **sp. n.**—*M. ? nigra* Sudan, THEOBALD (80) Rep. Wellcome Lab. **2**, **sp. n.**—*M. uniformis* (266-271) cuts, NEVEU-LEMAIRE Arch. parasit. **10**.

Megarhinus herriekii Mississippi, THEOBALD (241) Entomologist 1906, **sp. n.**

Melanoeconion urichii Trinidad, COQUILLET (61) Canad. Ent. **38**, **sp. n.**

Moehlostyrax **gen. n.** (223), *erraticus* Louisiana, *pilosus* Mexico, *caudelli* Trinidad, (224), *cubensis* Cuba (225), **spp. n.**, DYAR and KNAB New York J. Ent. Soc. **14**.—*M. floridanus* **sp. n.** N. America, DYAR and KNAB (171) Washington Proc. Biol. Soc. **19**.—*M. jamaicensis* Jamaica (318) with larva (319), GRAHAM Canad. Entomol. **38**, **sp. n.**

Myzomyia mangyana **sp. n.** BANKS (991) Philippine J. Sci. **1**.—*M. nili* ♂ THEOBALD (68) Rep. Wellcome Lab. **2**.

Nototricha **gen. n.**, COQUILLET Washington Tech. Ser. U. S. Dept. Agric. Bur. Ent. **11**.

Nyssorhynchus bozasi (246-249) cuts, NEVEU-LEMAIRE Arch. parasit. **10**.

Phoniomyia homotina **sp. n.** Centr. America, DYAR and KNAB (114) Washington Proc. Biol. Soc. **19**.

Pseudoheptaphlebotomyia madagascariensis Madagascar, VENTRILLON (127) Bul. Mus. Paris 1905, **sp. n.**

Psorophora virescens Centr.-America, *saera* Trinidad, *iracunda* Costa Rica, DYAR and KNAB (133) Washington Proc. Biol. Soc. **19**, **spp. n.**

Pyretophorus freverae **sp. n.** Philippines, BANKS (993) Philippine J. Sci. **1**.

Quasistegomyia **gen. n.** (69), *unilineata* **sp. n.** Sudan (70), THEOBALD Rep. Wellcome Lab. **2**.

Sabethes bipartites **sp. n.** San Domingo, DYAR and KNAB (136) Washington Proc. Biol. Soc. **19**.

Stegomyia cartroni Madagascar, VENTRILLON Bul. Mus. Paris **1906** (143-145), **sp. n.**—*S. aurostriata* (995) **sp. n.**, *fasciata persistans* n. subsp. (996), BANKS Philippine J. Sci. **1**.—*S. mediocinctata*, *busekii*, San Domingo, COQUILLET (60) Canad. Entomol. **38**, **spp. n.**—*S. brumpti* (261-266) cuts, NEVEU-LEMAIRE Arch. parasit. **10**.—*S. fasciata*, KNAB Science **23** (270-271).

Theobaldia alaskäensis Alaska, LUDLOW (326) Canad. Entomol. **38**, **sp. n.**—*T. annulata* (23) pl. v, AUSTEN Brit. blood-suck. flies.

Theobaldinella spathipalpis early stages, THEOBALD (71-73) Rep. Wellcome Lab. **2**.

Toxorhynchites argenteotarsis Philippines, LUDLOW (367) Canad. Ent. **38**, **sp. n.**—*T. immiserieors*, habits, natural history, PAIVA Calcutta J. As. Soc. Bengal **2** (357-378).

Taeniorhynchus africanus Egypt, NEVEU-LEMAIRE (271) Arch. parasit. **10**, **sp. n.**—*T. palliatus* Trinidad, COQUILLET (61) Canad. Entomol. **38**, **sp. n.**—*T. squamiger* habits, QUAYLE (27) Canad. Entomol. **38**.—*T. sierrensis* cf. *Culex varipalpus*.

Uranotaenia falcipes sp. n. Philippines, BANKS (1904) Philippine J. Sci. **1**.—*U. coatzacoalcas* Mexico (186), *continentalis* Louisiana, *coquilletti*? N. America, (187), DYAR and KNAB New York J. Ent. Soc. **14**, spp. n.—*U. larvae*, MITCHELL New York J. Ent. Soc. **14** (8-9).

Verrallina insolita Trinidad, COQUILLET (62) Canad. Ent. **38**, sp. n.

Worcesteria gen. n. near *Toxorhynchites* (779), *grata* sp. n. Philippines (780) pl. i, BANKS Philippine J. Sci. **1**.

Wyemyia ochrura San Domingo (229), *apronoma* Centr. America, *telestica* Trinidad, *autoeratica* Trinidad, *hemisagnosta* Costa Rica, (230), DYAR and KNAB New York J. Ent. Soc. **14**, spp. n.—*W. randuzzei* Florida, *bromeliarum* hab.?, *bahama* Bahamas, *violescens*, *minor*, Cuba, (138), *guatemala* Guatemala, *fratercula* Martinique, *sororcula* San Domingo, *pseudopeeten* Trinidad, (139), *melanocephala* Trinidad, *glaucocephala* San Domingo, *adelpha* Costa Rica, *galoa*, *chaleocephala*, *eelanocephala*, Guatemala, *espartana* Costa Rica, (140), DYAR and KNAB Washington Proc. Biol. Soc. **19**, spp. n.

The following entries of Culicidae have been previously dealt with in the Zoological Record.

(Stefani (De) Perez, S. Osservazioni e notizie sui Culicidi siciliani. Naturalista sicil., Palermo, **17**, (9-13) and (43-48).)

(*Anopheles costalis*, Loew.; *gambiae*, Giles; *gracilis*, Dönitz; *A. pharansis*, Theob. velleomei, sp. n. Sudan, THEOBALD, Khartoum, Rep. Wellcome Res. Lab., **1**, 1904, (64-70, with pls.).)

(*Culex cumminsii*, *dentatus*, sp. n.; *fatigans*, *pallidocephala*, sp. n.; *pipiens*, *pusillus*, *spathipalpis*, *viridis* Sudan, THEOBALD, Khartoum, Rep. Wellcome Res. Lab., **1**, 1904, (73-76, with pls.).)

(*Eretmapodites condei* Madagascar, VENTRILLON, Arch. parasit. **9**, sp. n.)

(*Etorleptomomyia*, gen. n.; *mediolineata*, sp. n. Sudan, THEOBALD, Khartoum, Rep. Wellcome Res. Lab., **1**, 1904, (71-73, pls. i 9, ii 2, figs. 1, 2).)

(*Heptaphlebomyia argenteopunctata*, *monforti*, VENTRILLON, Arch. parasit. **9** spp. n.)

(*Mansonia major*, *uniformis*, Sudan. THEOBALD, Khartoum, Rep. Wellcome Res. Lab., **1**, 1904, (76-77, with pls.).)

(*Mimomyia splendens*, *uniformis*, sp. n. Sudan, THEOBALD, T.c. (80-81, with pls.).)

(*Mucicus africanus*, THEOBALD, Khartoum, T.c. (71, pls. ii. I, iv. 2, v. 6).)

(*Myzomyia*; *nili*, sp. n. M. n. sp. Sudan, THEOBALD, T.c. (66-68, with pls.).)

(*Myzorhynchus paludis* Sudan, THEOBALD, Khartoum, T.c. (70).)

(*Panoplites africanus*, *uniformis*, Sudan, THEOBALD, T.c. (76-77 with pls.).)

(*Pyretophorus costalis*, Sudan, THEOBALD, Khartoum, Rep. Wellcome Res. Lab., **1**, 1904, (70, pl. v, fig. 4).)

(*Stegomyia lamberti* Madagascar, VENTRILLON, Arch. parasit. **9**, sp. n.—*S. brumpti* NEVEU-LEMAIRE, Paris Bul. soc. zool. **30** sp. n.—*S. fasciata*, THEOBALD, Khartoum, Rep. Wellcome Res. Lab., **1**, 1904, (71, pl. vi, fig. 2).)

(*Taeniorhynchus annettii*; *aurites*; *eristatus*, sp. n. *tenax*; *tenax*, var. *maculipes*, var. n. Sudan, THEOBALD, T.c. (77-79, with pls.).)

(*Theobaldia spathipalpis*, THEOBALD, T.c. (73, pl. vi. 1).)

(*Uranotaenia balfouri*, sp. n.; *eacruleocephala*; Sudan, THEOBALD, T.c. (82-83, with pls.).)

PSYCHODIDAE, TERMITOMASTIDAE.

†*Phlebotomiella* gen. n. (103) for *Phlebotomus tipuliformis* Meun., MEUNIER (103) Naturaliste 1906.

Phlebotomus duboseqi Soudan, NEVEU-LEMAIRE (65) Paris Bull. Soc. Zool. **31**, sp. n.

†*Psychodites* gen. n. for *Asiraca eger-toni* and *kenngotti* Gieb. HANDLIRSCH (630) Fossil. Ins.

Termitomastidae = subfam. *Termitomastinae* von *Psychodidae*, HOLMGREN (140) Leipzig Zool. Anz. **30**.

Systematische Stellung der *Termitomastidae*, SPEISER Zool. Anz. Leipzig **30** 1906 (716-718).

(MEUNIER, Fernand. Sur un curieux *Psychodidae* de l'ambre de la Baltique. Miscel. ent. **13**, 1905, (49-51, av. fig.).)

SIMULIIDAE.

Simulium divided into *Prosimulium* subg. n. and *Eusimulium* subg. n., ROUBAUD (519-521) Paris C.-R. Acad. Sci. **143**.

Simulium neireti (425), *imerinae* (426), Madagascar, ROUBAUD Bul. Mus. Paris 1905, **spp. n.**—*S. rufipes* and sp. ?, Nippon, ROUBAUD, Bul. Muséum Paris, **1906** (24-27).—*S. jolyi* Nouvelles Hébrides **sp. n.** (142), *S. damnosum* distribution etc. (140); ROUBAUD Bull. Mus. Paris **12**.—*S. ignescens* (107), *riveri* (108), Equateur, *exiguum* Vénézuéla (109), ROUBAUD T.c., **spp. n.**—*S. perflarum* Brazil (518), *wellmanni* Angola (519), *beckeri* Biskra, *intermedium* Canaries (520), *victoriae* Australia, *buissoni* Marquis islands (521). ROUBAUD Bul. Mus. Paris 1906, **spp. n.**—*S. damnosum* Theob., *griseicollis* Becker, Sudan, AUSTEN Khartoum Rep. Wellcome Res. Lab. **2** (52-53).—*S. pictipes*, blood-gills of larva, HEADLEE Amer. Nat. **1906** (875-885).—*S. reptans* (29) pl. x, AUSTEN Brit. blood-suck. flies.—*S. kolumbaeensis* ravages in Hungary, NOEL (13) Naturaliste 1906.

BIBIONIDAE.

Anarete; position, species, (338-342); *rubra* Bitche (313), *lacteipennis* (345), *crassipalpis* (346), Styria, **spp. n.**, KIEFFER Bruxelles Ann. Soc. scient. **30**.

Dilophus erythraeus Eritrea, BEZZI (205) Firenze Boll. Soc. entomol. **37**, **sp. n.**

†*Protoplecia* gen. n. for *Macropeza liasina* Gein., HANDLIERSCH (466) Fossil. Ins.

BLEPHAROCERIDAE.

Curupira; occurrence, in New Zealand, pl. xlv, CHILTON Wellington Trans. N. Zeal. Inst. **38** (277-278).

Blepharocera; the eyes, RILEY Science **24** (297).

TIPULIDAE, RHYPHIDAE, etc.

Antocha opalizans var. n. *obscura*, STROBL (412) Madrid Mem. Soc. esp. **3**.

Empeda nubila var. n. *fuscohalterata*, STROBL (413) Madrid Mem. Soc. esp. **3**.

Limnobia nigra var. n. *laufferi* (410); *L. (Dieranomysia) noremaculata* (411) **sp. n.** Spain; STROBL T.c.—*L. triocellata*

larva, JOHNSON (2) pl. i figs. 3 and 4 Psyche **13**.

Limnophila axillaris Spain, STROBL (413) Madrid Mem. Soc. esp. **3**, **sp. n.**

Longurio testaceus? larva, JOHNSON (1) pl. i figs. 1 and 2 Psyche **13**.

Pachyrrhina castellana Spain, STROBL (406) Madrid Mem. Soc. esp. **3**, **sp. n.**

Tanypremna omissinervis **sp. n.** Neu-Guinea, MEIJERE Nova Guinea **5** Livr. 1 (71) f. 4.

Tipula pseudocinerascens (408), *gibbifera* (409), Spain, **spp. n.**; *irrorata* var. n. *guadarramensis* (407); STROBL Madrid Mem. Soc. esp. **3**.—*T. nigdecensis* Asia minor, BISCHOF (172) Wien Ann. Nat. Hist. Hofmus. **20**, **sp. n.**—*T. dichroa* Eritrea, BEZZI (220) Firenze Boll. Soc. entom. **37**, **sp. n.**—*T. flavoannulata*, JACOBS (68) pl. iii f. 5 Résult Belgica, Zoologie.

Toxorhina madagascariensis **sp. n.** du copal récent de Madagascar, MEUNIER Elbeuf Bul. soc. étud. sci. nat. **24** 1906 (97-100).

Trimicra annuliplena Eritrea, BEZZI (217) Firenze Boll. Soc. entomol. **37**, **sp. n.**

†Fossil *Tipulidae*, *Ptychopteridae* etc.

†*Limnophila (Dactylolabis) elegantissima* **sp. n.**, de l'ambre de la Baltique, MEUNIER Naturaliste Paris **28** 1906 (103-104).

†*Architipula* gen. n., *Architipulidae* fam. n., *sebachiana*, *elegans*, (490), *latipennis*, *stigmatica*, (491), **spp. n.**, Lias Mecklenburg, HANDLIERSCH Fossil. Ins.

†*Dactylolabis elegantissima*, Baltic amber, MEUNIER (103, 104) Naturaliste 1906, **sp. n.**

†*Eolimnobia* gen. n., *geinitzi* **sp. n.** Lias Mecklenburg, HANDLIERSCH (489) Fossil. Ins.

†*Eoptychoptera* gen. n. *Eoptychopteridae* fam. n., *simplex* **sp. n.** Lias Mecklenburg, HANDLIERSCH (489) Fossil. Ins.

†*Eotipula* gen. n., *parva*, (491), *lapidaria* (492), **spp. n.**, Lias Mecklenburg, HANDLIERSCH T.c.

†*Proptychoptera* gen. n., *liasina* **sp. n.** Lias Mecklenburg, HANDLIERSCH (489) T.c.

†*Protipula* gen. n., *crassa* **sp. n.** Lias Mecklenburg, HANDLIERSCH (491).

†*Protorhyphus* **gen. n.** *Protorhyphidae* fam. n., for *Phryganidium simplex* Gein., HANDLIRSCH (487) T.c.

STRATIOMYIDAE.

Wings of *Coenomyia*, *Eraza* etc., KERTÉSZ Ann. Hist.-nat. Hung. **4** (276) Taf. v.

Clitellaria argenteofasciata Eritrea, BEZZI (232) Firenze Boll. Soc. entom. **37**, sp. n.

Eraza, Walk., Gattung und Arten; *E. indica* Bombay **sp. n.** (289); KERTÉSZ Ann. Hist.-Nat. Hung. **4** (276–292).

Hoplodonta impar Eritrea, BEZZI (228) Firenze Boll. Soc. entom. **37**, sp. n.

Lasiopa rufitarsis Spain, STROBL (274) Madrid Mem. Soc. esp. **3**, sp. n.

Nemotelus latiusculus Lw. var. = (*cardinalii* Bezzi), *lateralis* Duf., (2), *longirostris* Wied. (7); *tomentosus* (3), *candidus* (4), Biskra, *carthaginis* Carthage (5), *oasis* Biskra (6), **spp. n.**; BECKER Zs. Hymenopter. **6**.

Odontomyia limbata, nomenclature, BECKER (10) T.c.—*O. xanthopus* (225), *poecilopoda* (227), Eritrea, BEZZI Firenze Boll. Soc. entom. **37**, **spp. n.**

Oxyceera annulata Tunis, BECKER (11) Zs. Hymenopter. **6**, sp. n.—*O. abyssinica* Eritrea BEZZI (230) Firenze Boll. Soc. entom. **37**, sp. n.

Peritta **gen. n.** near *Odontomyia* (10), *melichlora* **sp. n.** Biskra (11), BECKER Zs. Hymenopter. **6**.

Pyenomalla splendens characters, synonymy, BECKER (8) T.c.

Sargus albopilosus **sp. n.** Neu-Guinea, MEIJERE Nova Guinea **5** Livr. 1 (73).

Stratiomyia sequis Tunis, BECKER (8) Zs. Hymenopter. **6**, sp. n.

Zabrachia polita larva, JOHNSON (3) pl. i f. 8 Psyche **13**.

TABANIDAE.

List of African *Tabanidae*; BEZZI (234–241) Firenze Boll. Soc. entom. **37**.

Lebensgewohnheiten, Bekämpfung, PORTSCHINSKY Trd. B. entom. učén. Kom. M. Teml. St. Petersburg **2** (1–49) 19 Fig.

Habits and life histories of some North American *Tabanidae*; HINE Washington Tech. Ser. U. S. Dept. Agric. Ent. **12** (i–iii + 19–38).

Tabanidae of Louisiana, with a discussion of remedies and natural enemies; HINE Cameron La. Gulf Biol. Sta. Bull. No. **5** 1906 (1–43).

Chrysops; the Finland species, SAHLBERG (103–105) Helsingfors Medd. Soc. Fauna Fl. Fenn. **31**.—*C. distinctipennis* Sudan, AUSTEN, Rep. Welcome Lab. **2** (53) pl. iv, **sp. n.**—*C. coecutiens meridionalis* var. n., STROBL (277) Madrid Mem. Soc. esp. **3**.—*C. spp.*, eye coloration, DAECHE Ent. News **17** (39–42) pl.—*C. caecutiens* (53) pl. xxvi, *quadrata* (54) pl. xxvii, *relicta* (55) pl. xxviii, AUSTEN Brit. blood-suck. flies.

(*Chrysops amazon*, *bistellatus*. New Jersey, DAECHE, Ent. News **16** 1905 (249–251), **spp. n.**)

Haematopota; revision of, based on specimens in British Museum collection; RICARDO Ann. Mag. Nat. Hist. **18** (94–127) plates iii–vi; *H. hirta* (101), *nigrescens* (103), *longa* (104), *ugandae* (105), *distincta* (106), *brunnescens* (107), *bipunctata* (108), *brunnipennis*, *unicolor*, (111), *similis* (112), Africa; *unizonata* (118), *cingalensis* (119), Ceylon, *tesselata* Trincomalee, *rubida* Burma, (120), *lata* India etc. (121), *brevis* Ceylon and India (122); RICARDO T.c., **spp. n.**—*H. pulchrithorax* Sudan, AUSTEN Rep. Wellcome Lab. **2** (54) pl. v, **sp. n.**—*H. pluvialis* ♂ ♀ (35) pl. xi figs. 1 and 2, AUSTEN Brit. blood-suck. flies.

Hineia **gen. n.** *flaviceps* **sp. n.** Rhodesia, ADAMS (150) Lawrence Kan. Univ. Sci. Bull. **3**.

Holcoceria **gen. n.** near *Haematopota* (357), *nobilis* **sp. n.** Nyassa-Sec (358), GRÜNBERG Zool. Anz. **30**.

Melissomorpha **gen. n.** near *Apatolestes* (97), *indiana* **sp. n.** Darjeeling (98), RICARDO London Proc. Zool. Soc. 1906.

Orgizomyia **gen. n.** for *Pangonia zigzag* Macq., GRÜNBERG Zool. Anz. **30** (349).

Pangonia granatensis (277), *escalerae* (278), Spain, STROBL Madrid Mem. Soc. esp. **3**, **spp. n.**

Parhaematopota **gen. n.**, *cognata* **sp. n.** Ost-Afrika, GRÜNBERG Zool. Anz. **30** (360).

Tabanus ricardae Guinea (522), *obscurifumatus* Congo (523), *velutinus* Abyssinia (524), *sticticollis* (525), *chevalieri* (526), Fouta-Djalou, *rothschildi* (527), *pallidifacies* (528), SURCOUF Bul. Mus. Paris 1906, **spp. n.**—*T. tarsalis* Rhodesia, ADAMS (151) Lawrence Kan. Univ. Sci. Bull. **3**, **sp. n.**—*T. lactus* **sp. n.** Neu-Guinea, MEJERE Nova Guinea **5** Livr. 1 (74) f. 5.

Tabanus subniger **sp. n.** Illinois, COQUILLET (48) Ent. News **17**.—*T. appendiculatus* Guatemala (22), *fuscicostatus* Louisiana, *guatemalanus* San Jose, (24), *stenocephalus* Guatemala (27), *unistriatus* Costa Rica (28), HINE Ohio Nat. **7**, **spp. n.**—*T. par* Walk. = (*rufipes* Macq. = *luteolus* Loew) (56) f. 21, *ditacniatus* Macq. = (*Atylotus nigromaculatus* Ric.) (57) f. 22, *virgatus* nom. n. for *dorsivitta* Walk. (60) f. 25, *biguttatus* Wied. = (*cerberus* Walk. = *noctis* Walk. = *tripunctifer* Walk.) (60) figs. 26 and 27, *fasciatus* Fabr. *niloticus* subsp. n (62) pl. vi, *africanus* (64) f. 28, AUSTEN Rep. Wellcome Lab. **2**.—*T. bovinus* (45) pl. xix, *sudeticus* (47) pl. xx, *autumnalis* (48) plates xxi and xxii, *bromius* (49) pl. xxiii, *maulicornis* (50) pl. xxiv, *cordiger* (51) pl. xxv, AUSTEN Brit. blood-suck. flies.—*T. quatuornotatus* oviposition young larva, LÉCAILLON Paris C.-R. soc. biol. **60** 1906 (459-460).

Thaumastocera **gen. n.** *Tabaninae*, (345), *takwa* **sp. n.** Kamerun (356), GRÜNBERG Zool. Anz. **30**.

Therioplectes micans (37) pl. xiii, *montanus* (39) pl. xiv, *luridus* (40) pl. xv, *tropicus bisignatus* (41) pl. xvi, *solstitialis* (43) pl. xvii, AUSTEN Brit. blood-suck. flies.

Thriambeutes **gen. n.** (352), *Pangoniinae*, *singularis* **sp. n.** Togo (353), GRÜNBERG Zool. Anz. **30**.

LEPTIDAE, ACANTHOMERIDAE.

Acanthomera teret truncum **sp. n.** Paraguay, also larva; FIEBIGER Zs. wiss. Insektenbiol. **2**.

Leptis algerica Aïn-Taya, BECKER (282) Zs. Hymenopter. **6**, **sp. n.**

Rhagio vermileo nigri ventris var. n., STROBL (304) Madrid Mem. Soc. esp. **3**.

Therera aethiopica Eritrea, BEZZI (264) Firenze Boll. Soc. entom. **37**, **sp. n.**

ASILIDAE, MYDAIDAE.

List of African *Asilidae*, BEZZI (267-279) Firenze Boll. Soc. entom. **37**.

Asilidae and their prey, POULTON (329-377) London Trans. ent. Soc. 1906.

Amphisbetetus **gen. n.** (131), *affinis* **sp. n.** N. Africa (132), HERMANN Zs. Hymenopter. **6**.

Aneylorrhynchus laufferi Spain, STROBL Madrid mem. Soc. esp. **3**, **sp. n.**—*A. gunnigutta* Tangier, BECKER (366) Zs. Hymenopter. **6**, **sp. n.**

Asilus; Synonymie of Meigen's species, VILLENEUVE Entomol. Ztg. Wien **25** 1906 (43).

Cyrtopogon annulatus (134), *quadripunctatus* (135), Turkestan, **spp. n.**, HERMANN Zs. Hymenopter. **6**.

Dasypogon (s.l.) *occlusus* **sp. n.** Neu-Guinea, MEJERE Nova Guinea **5** Livr. 1 (75).—*D. favillaceus* Löw, HERMANN (129) Zs. Hymenopter. **6**.

Dioetria rufa Spain, STROBL (289) Madrid Mem. Soc. esp. **3**, **sp. n.**—*D. ochrifacies* Tunis, BECKER (353) Zs. Hymenopter. **6**, **sp. n.**

Eriopogon jubatus Tangier, BECKER (367) Zs. Hymenopter. **6**, **sp. n.**

Heligmoneura nuda Eritrea, BEZZI (290) Firenze Boll. Soc. entom. **37**, **sp. n.**

Holopogon rugiventris Spain, STROBL (297) Madrid Soc. esp. **3**, **sp. n.**

Lagodias teratodes **sp. n.** E. Africa, HERMANN (141) Zs. Hymenopter. **6**.

Laphria flava escorialensis var. n., STROBL (300) Madrid Mem. Soc. esp. **3**.

Laphystia hispanica Spain, STROBL (299) T.c., **sp. n.**

Leptogaster linearis (284), *latestriata* (285), Tunis, *stramineus* Algeria (286), BECKER Zs. Hymenopter. **6**, **spp. n.**—*L. bicingulata* Eritrea, BEZZI (279) Firenze Boll. Soc. entom. **37**, **sp. n.**—*L. erecta*, copal Zanzibar, MEUNIER (61) Rev. Sci. Bourbon 1906, **sp. n.**

Lophonotus leucotaenia (286), *nanus* (288), Eritrea, BEZZI Firenze Boll. Soc. entom. **37**, **spp. n.**

Machimus dactyliferus Spain, STROBL (301) Madrid Mem. Soc. esp. **3**, **sp. n.**—

M. griseus **sp. n.** Colorado, HINE (29) Ohio Nat. 7.

Methylla Hansen (1883); **an omitted genus**, but is not distinct from *Dioctria* Meigen, BEZZI Entomol. Ztg. Wien 25 (20).

Mydas fulvifrons, sexes, *chrysostoma* is the ♀, DAECKE Ent. News 17 (317).

Neoitamus globifer Spain, STROBL (302) Madrid Mem. Soc. espan. 3, **sp. n.**

Ommatius macroseclis Eritrea, BEZZI (292) Firenze Boll. Soc. entom. 37, **sp. n.**

Promachus argyropus Eritrea, BEZZI (284) T.c., **sp. n.**

Promachus flasibarbis (152), *apicalis*, *solus*, (153), *negligens* (154), Rhodesia, ADAMS Lawrence Kan. Univ. Sci. Bull. 3, **spp. n.**

Saropogon distinctus (359), *clausus* (360), *lamperti* (362), *vosseleri* (363), *latecinctus* (364), Algeria, BECKER Zs. Hymenopter. 6, **spp. n.**

Scyllaticus semizonatus Sahara, BECKER (365) T.c. **sp. n.**

Selidopogon crassus Macq. ♂ ♀, BECKER (355) T.c.

Sisyrodites niger Eritrea, BEZZI (283) Firenze Boll. Soc. entom. 37, **sp. n.**—*S. major* Rhodesia, ADAMS (155) Lawrence Kan. Univ. Sci. Bull. 3, **sp. n.**

Spanurus tellinii Eritrea, BEZZI (282) Firenze Boll. Soc. entom. 37, **sp. n.**

Stilpnogaster auriannulatus **sp. n.** British Columbia, HINE (29) Ohio Nat. 7.

Syllegomydas **gen. n.** (277), wing (353), for *Rhopalia algerica* Gerst., *Leptomydas cinctus* Macq., and *S. claripennis* **sp. n.** Tunis (279); BECKER Zs. Hymenopter. 6.

Trichardis **gen. n.**, *testacea*, (137), *picta* (139), **spp. n.** Cape Colony, HERMANN Zs. Hymenopter. 6.

(Pandellé, L. Contribution à l'étude du genre *Asilus*, Rev. ent., Caen, 24, 1905, (44-98).)

ACROCERIDAE.

Ogcodes doddi Queensland, WANDOLLECK (131) London Trans. ent. Soc. 1906, **sp. n.**

BOMBYLIIDAE.

List of African *Bombyliidae*, BEZZI (244-254) Firenze Boll. Soc. entom. 37.

Amictus zinamominus (155), *tener* (157), Biskra, BECKER Zs. Hymenopter. 6, **spp. n.**

Anthrax perfectus (117), *inacqualis* (148), Tunis, BECKER T.c., **spp. n.**

Argyromoeba dentata Tunis (148), *sabulonis* Biskra (149), BECKER T.c., **spp. n.**

Bombylius seminiger Tunis (97), *alveolus* Biskra (99), *collaris* Tunis (100), *separatus* Oran (102), *biroi* S. Tunis (104), *gracilipes* Oran (106), *striatifrons* Sahara (108); BECKER T.c., **spp. n.**—*B. appendiculatus* Eritrea, BEZZI (255) Firenze Boll. Soc. entom. 37, **sp. n.**

Dischistus eximius S. Tunis, BECKER (111) Zs. Hymenopter. 6, **sp. n.**—*D. cylindricus* Eritrea BEZZI (257) Firenze Boll. Soc. entom. 37, **sp. n.**

Exoprosopa clineata Tunis (150), *arenacea* Sahara (151), *adelphe* Oran (152), *semiflavida* Tunis (274); BECKER Zs. Hymenopter. 6, **spp. n.**—*E. (Hyperalonia) alula* (259), *E. (Lithorrhynchus) erythraca* (261), Eritrea, BEZZI Firenze Boll. Soc. entom. 37, **spp. n.**

Mulio semiargyreus Spain, STROBL (282) Madrid Mem. Soc. esp. 3, **sp. n.**—*M. delicatus* (153), *trifarius* (154), Biskra, BECKER Zs. Hymenopter. 6, **spp. n.**—*M. barbarus* Tunis, SACK (169) Wien Verh. zool.-bot. Ges. 1906, **sp. n.**

Ploas bella Tunis, BECKER (112) Zs. Hymenopter. 6, **sp. n.**

Psiatholasius **gen. n.** near *Dischistus*, *bombyliiformis* **sp. n.** Tunis, BECKER (115) T.c.

Systropus snowi Rhodesia, ADAMS (156) Lawrence Kan. Univ. Sci. Bull. 3, **sp. n.**

Usia; revision with following **spp. n.**; *accola* (214), *angustifrons* (212), *anus* (207), *carmelitensis* (226), *crinipes* (208), *ignorata* (225), *loceri* (219), *pallescent* (226), *putilla* (215), *vagans* (221), **spp. n.**, BECKER Berliner ent. Zs. 50 (1905) 1906 (193-228) 1 Taf.—*U. accola*,

angustifrons, (14), *ignorata* (15), Tunis, BECKER Zs. Hymenopter. **6**, **spp. n.**—*Usia aurata* Fabr. = (*taeniolata* A. Costa), BECKER, Napoli, Annuario Mus. zool. **2** No. 8.

NEMESTRINIDAE.

Nemestrina bolirari Spain, STROBL Madrid Mem. Soc. esp. **3**, **sp. n.**

†*Prohirmoncura* **gen. n.**, *jurassicus* **sp. n.** Bayern Kalk, HANDLIRSCH (633) Fossil. ins.

EMPIDAE.

Empidae and their prey, POULTON (379-390) London Trans. ent. Soc. 1906.

Drapetis setigera dilutipes var. n., *pusilla fumipennis* var. n., STROBL Madrid Mem. Soc. esp. **3**.

Elaphropeza dispar Rhodesia, ADAMS (157) Lawrence Kan. Univ. Sci. Bull. **3**, **sp. n.**—*E. montana* Mel. to *Symbalophthalmus* MELANDER (372) Ent. News **17**.

Empis; tables of palaearctic, KUNTZE Zs. Hymenopter. **6** (209-216, 297-304).—*E. gibbipes* Spain, STROBL (308) Madrid Mem. Soc. esp. **3**, **sp. n.**—*E. surata* **sp. n.** Cattaro, KUNTZE (159) Zs. Hymenopter. **7**.—*E. validis* Rhodesia, ADAMS (158) Lawrence Kan. Univ. Sci. Bull. **3**, **sp. n.**

Hesperempis **gen. n.** for *Rhagas mabelae*, MELANDER (377) Ent. News **17**.

Hilara palmarum (309), *almeriensis* (310), Spain, STROBL Madrid Mem. Soc. esp. **3**, **spp. n.**

Parathalassius aldriehi California (374), *candidatus* Washington (375), MELANDER Ent. News **17**, **spp. n.**

Prorates **gen. n.** *Hybotinae* (372), *claripennis* **sp. n.** New Mexico (373), MELANDER T.c.

Rhamphomyia longefilata (305), *gibbifera* (306), Spain, STROBL Madrid Mem. Soc. esp. **3**, **spp. n.**

Stilpon obscuripes Rhodesia, ADAMS (156) Lawrence Kan. Univ. Sci. Bull. **3**, **sp. n.**—*S. houghii* Mel. to *Chersodromia*, MELANDER (370) Ent. News **17**.

Syneches (Harpamerus) relutinus **sp. n.** Neu-Guinea, MEIJERE Nova Guinea **5** Livr. 1 (79).

Tachydromia albiseta var. n. *brunnipes* (312), *maculipes* var. n. *crassiset* (311); *rondaensis* (316), *undulata* (317) *montserrataensis* (318), *catalonica* (319), Spain, **spp. n.**; STROBL Madrid Mem. Soc. esp. **3**.

Thinodromia **gen. n.** *Tachydromiinae*, *inehoata* **sp. n.** California, MELANDER (370) Ent. News **17**.

Toreus **gen. n.** for *Empis neomexicana* Mel., MELANDER (376) T.c.

DOLICHOPODIDAE.

†Peculiarities of *Dolichopodidae* of Baltic amber, MEUNIER Paris C.-R. Acad. Sci. **143** (617, 618).

Agonosoma leucopygum (82) f. 8, *signatipenne* (83) f. 9, (*Psilopodinus*) *purpuratum* (84) f. 10, **spp. n.**, Neu-Guinea MEIJERE Nova Guinea **5** Livr. 1.

Argyra robusta Quebec, JOHNSON (59) Psyche **13**, **sp. n.**

Campsicnemus simplicissimus (323), *crinitarsis* (324), Spain, STROBL Madrid Mem. Soc. esp. **3**, **spp. n.**

Chrysotus xanthoprasius Eritrea, BEZZI (301) Firenze Boll. Soc. entom. **37**, **sp. n.**

Gymnopternus quadrifilatus Spain, STROBL (321) Madrid Mem. Soc. esp. **3**, **sp. n.**

Hercostomus melanolepis Eritrea, BEZZI (300) Firenze Boll. Soc. entom. **37**, **sp. n.**

Leucostola slossonae **sp. n.** Mt. Washington, JOHNSON Psyche **13** (59).

Pelastoneurus dissimilipes (= *nigrescens* Wh.) WHEELER (69) Ent. News **17**.

Rhagoneurus aethiopicus Eritrea, BEZZI (297) Firenze Boll. Soc. entom. **37**, **sp. n.**

Thinophilus setulipalpis Eritrea, BEZZI (302) T.c., **sp. n.**

LONCHOPTERIDAE.

Revision of palaearctic *Lonchopteridae*, with much synonymy and the following **spp. n.**, *fallax* (84) Netherlands, *strobbi* (85) Austria and Italy; DE MEIJERE's Gravenhage Tijdschr. Ent. **49**.—*L. africana* Rhodesia, ADAMS (159) Lawrence Kan. Univ. Sci. Bull. **3**, **sp. n.**

PHORIDAE, THAUMATOXENIDAE.

Account of *Phoridae*, the genera and lists of species, BRUES Gen. ins. **44** (21) 2 plates.

Aphiochacta?, Rhodesia, ADAMS (159) Lawrence Kan. Univ. Sci. Bull. **3**, sp. n.—*A. longifrons*, *cavernicola*, N. America, BRUES (100) Milwaukee Bull. Wis. Nat. Hist. Soc. **4**, spp. n.

Phora papillata England WINGATE (111) Ent. Mag. London **42**, sp. n.; *P. papillata* is *lugubris* Mg., Id. T.c. (215).—*P. vitrea*, *luteifemorata*, (191), *sublugubris* (192), *domestica* (262), Britain, WOOD Ent. Mag. London **42**, spp. n.—*P. opaca*, *perennis*, *nigricornis*, synonymy, COLLIN (177-179) Ent. Mag. London **42**.

Puliciphora borinquenensis sp. n. Porto Rico, WHEELER (269) pl. xxxiv New York Bull. Amer. Mus. **22**.

Thaumatoxena andreinii Erythraea in nest of *Termes bellicosus*, SILVESTRI (356) Redia **3**, sp. n.

PLATYPEZIDAE, PIPUNCULIDAE.

Calotarsa insignis sp. n., California, tarsi of others, ALDRICH Ent. News **17** (123-127) pl.

Pipunculus ritiensis sp. n. Rewa, MUIR (10) Honolulu Exp. Stat. Bull. **2**.—*P.?* *glabrum* Rhodesia, ADAMS (165) Lawrence Kan. Univ. Sci. Bull. **3**, sp. n.—*P. eutrichodes* sp. n. Queensland (494), PERKINS Honolulu Exp. Sta. Hawaiian Sug. Pl. Ass. Div. Ent. Bull. **1**.

SYRPHIDAE.

Eristalis longicornis (160), *aqualis* (161), *communis* (162), *dissimilis* (163), Rhodesia, ADAMS Lawrence Kan. Univ. Sci. Bull. **3**, spp. n.—*E. croceimaculata*, JACOBS (69) pl. iii f. 3 Résult. Belgica, Zoologie.

Melanostoma bituberculata Rhodesia, ADAMS (160) Lawrence Kan. Univ. Sci. Bull. **3**, sp. n.

Paragus atratus sp. n. Nen-Guinea, MEIJERE Nova Guinea **5** Livr. 1 (85).

Pelcoecera pruinosomaculata Spain, STROBL (326) Madrid Mem. Soc. esp. **3**, sp. n.

Volucella pellucida, larval habits, SUNDBL (115-120) Helsingfors Medd. Soc. Fauna Fl. Fenn. **32**.

Xanthandrus comtus larval food and habits, CHAPMAN (14-16) Ent. Mag. (N-9720 j)

London **42**; larval habits, POULTON (396) London Trans. ent. Soc. 1906.

Xylota pigra larva, JOHNSON (2) pl. i figs. 5 & 6 Psyche **13**.

(Pandellé, L. Note sur le *Cheilosia* de France. Rev. ent., Caen, **24**, 1905, (25-44).)

CONOPIDAE.

Das „unpaare Organ“ der *Conopidae*, STREIFF Zs. wiss. Zool. Leipzig **84** 1906 (139-203) 2 Taf.

Myiopa minor Spain, STROBL (332) Madrid Mem. Soc. esp. **3**, sp. n.

Zodion vittipes Spain, STROBL (331) T.c., sp. n.

OESTRIDAE.

Account of *Oestridae* as subfam. *Oestrinae* of fam. *Muscaridae*; BAU Gen. ins. fasc. **43** (1-31) 2 plates.

Cephenomyia ulrichii in Ostpreussen, LÜHE (178, 179) figs. Königsberg Schr. physik. Ges. **46**.

Cuterebra cyanella sp. n. Nebraska, JONES (391) Ent. News **17** (391-392).

Dermatobia hominis, BARRETT (3) Washington Proc. ent. Soc. **8**.

Gastrophilus equi, *haemorrhoidalis*, *nasalis*, Vorkommen in verschiedenen Organen des Pferdes, BOLÍ Kazaní Zap. Veterin. Inst. **21** (378-381).

Hypoderma boris & *lineata* summary of life-histories, IMMS J. econ. Biol. London **1** (74-91).

Necocuterebra gen. n., *squamosa* sp. n. Afrika, GRÜNBERG Berlin SitzBer. Ges. natf. Freunde **1906** (36).

Oestrus ovis oviposition, COLLINGE J. econ. biol. London **1** (72-73).

Schnablia nom. n. for *Microcephalus* Schnabl 1877, BEZZI Zs. Hymenopter. **6** (50).

Tachinocstrus gen. n., *fenestratus* sp. n. Afrika, GRÜNBERG Berlin SitzBer. Ges. natf. Freunde **1906** (39).

Rhinoestrus purpureus, Lebensweise, Fortpflanzung, Schaden. PORTSCHINSKY Trd. B. entom. učen. Kom. M. Zeml. **6** (1-44) 1 Taf.

MUSCIDAE CALYPTRATAE.

Affinities of *Anthomyiidae*, SCHNABL Entomol. Ztg. Wien **25** (267).

Präalarborste, value of the term, STEIN Entomol. Ztg. Wien **25** (127-128).

Parasitic fly of the domesticated silkworms, habits of; TOYAMA Tokyo Nip. Sanshi Kw. Hō **173** 1906 (1-10) pl.

(Pandellé, Louis. Etude sur les Muscides de France. Rev. ent., Caen, 3^e Partie, **1898-1904**, (pagination spéciale, 492))

Allognosta nova sp. n. Madagascar STEIN (75) Berliner ent. Zs. **51**.

Anthomyia brassicae and cole in Nord-Holland; QUANJER Haarlem Nat. Verh. Holl. Maatsch. Wet. **6** (1-84) 7 Taf.—*A. conformis*, Lebensweise, Schaden etc., VASILJEV Věst. sacharn. promysl. **6** (802-804).

Archytas hystrix, host, JOHNSON (2) Psyche **13**.

Aricia annulipes sp. n. Kaffraria, STEIN (33) Berliner ent. Zs. **51**.

(*Aricia marmorata* Zett. und verwandte Arten, STEIN, Entomol. Ztg. Wien **22** 1903 (269-278).)

Atherigona magnipalpis Kamerun, *nigrithorax* Togo, spp. n., STEIN Berliner ent. Zs. **51** (66).

Auchmeromyia luteola, THEOBALD Khartoum Rep. Wellcome Res. Lab. **2** (85-87) fig. 42; bionomics WELLMAN Ent. News **17** (64-67).

Arihospita azurea, Auftreten im Frühjahr, MAZARAKIJ St. Peterburg Hor. Soc. Ent. Russ. **37** (xcvii-cix).

Barychaeta nom. n. for *Pachychaeta* Portschinsky 1882, BEZZI Zs. Hymenopter. **6** (49).

Bengalia depressa natural history, THEOBALD (83-85) f. 41, Rep. Wellcome Lab. **2**.

Beecearimyia; GRÜNBERG (83) Zool. Anz. **30**.

Caricea sexnotata, *multimaculata*, (205), *flavipes* (206), Rhodesia, ADAMS Lawrence Kan. Univ. Sci. Bull. **3**, spp. n.

Catharosia nigrisquama nigripes var. n., STROHL (340) Madrid Mem. Soc. esp. **3**.

Ceromasia interrupta (Macq.) Rond. = *Tachina lepida* Meig.; VILLENEUVE, Entomol. Ztg. Wien **25** (43).

Cerophora funesta Rob. Desv. Beschreibung, VILLENEUVE T.c. (286).

Chortophila anthracina (251), *sancti marci* (252), Oberösterreich, spp. n., CZERNY Entomol. Ztg. Wien **25**.—C.

linearis Rhodesia, ADAMS (206) Lawrence Kan. Univ. Sci. Bull. **3**, sp. n.—*C. milineata* hunting habits, POULTON (xiii) London Proc. ent. Soc. 1906.

Clista lentis Meig. = (*Scopolia tricineta* Rond.), *C. foeda* Meig. synonymy, VILLENEUVE (248) Entomol. Ztg. Wien. **25**.

Coenosia humeralis, Nyassasee und Kamerun, *parripunctata* (77), *longiseta* (78), Togo, *nitidiventris* Madagascar (79), STEIN Berliner ent. Zs. **51**, spp. n.—*C. valida* (207), *lineata* (208), Rhodesia, ADAMS Lawrence Kan. Univ. Sci. Bull. **3**, spp. n.

Compsomyia macellaria L. dans l'Inde française, GIARD Paris Bull. Ass. franç. avanc. sci. **1905** (334-335).

Craticulina nom. n. for *Craticula* Pandellé 1895, BEZZI Zs. Hymenopter. **6** (49).

Cylindromyiopsis nom. n. for *Cylindropsis* (infra), BEZZI (144) T.c.; *Cylindropsis* nom. n. for *Cylindrosoma* Rondani, BEZZI T.c. (49).

Degeeria strigata Meig. = (*Brachychaeta spinigera* Rond.), VILLENEUVE (247) Entomol. Ztg. Wien **25**.

Deuterammobia nom. n. for *Ammobia* Van der Wulp 1869, BEZZI Zs. Hymenopter. **6** (49).

Dexia irrorata Meig. = (*Atropidomyia parvula* BB.), *D. pectinata* Meig. = (*Iata* Egg.), VILLENEUVE (248) Entomol. Ztg. Wien. **25**.

Erigone and *Varichaeta*, GIRSCHNER (363) Entomol. Zeit. Wien **25**.—*E. viridescens* R. Desv. = (*Nemoraea nemorum* Meig.), VILLENEUVE (248) Entomol. Ztg. Wien **25**.

Eudoromyia nom. n. for *Endora* Rob. Desv. 1863, BEZZI Zs. Hymenopter. **6** (49).

Exorista properans Rond. = (*Masicera fatua* Meig. = *M. festinans* Meig.), *E. rapida* Meig. = (*immunita* Pand.), *E. libatrix* Meig. = (*Myxoxorista grisella* BB. = *Zenillia fulva* Pand.), VILLENEUVE (247 and 248) Entomol. Ztg. Wien **25**.

Fabrieiella nom. n. for *Fabrieia* R. Desv. 1830, BEZZI Zs. Hymenopter. 1906 (49).

Fortisia foeda = (*Leucostoma phacoptera* Meig.), VILLENEUVE (248) Entomol. Ztg. Wien **25**.

Glossina; anatomy, GILES J. trop. Medicine London **9** (99 etc.); popular sketch, JAPHA (147-149) Königsberg Schr. physik. Ges. 46, Sitz. Ber.; breeding places, MINCHIN Nature **74** (636) and **75** (30); *Glossina* in Cameroons and Togo, GRÜNBERG (92, 93) Zool. Anz. **30**, cf. also *Glossinella*.—*G. palpalis*, CAZALBOU Paris C.-R. Acad. sci. **143** (435-437).—*Glossina palpalis wellmani* natural history; WELLMAN Ent. News **17** 1906 (294-302) pl.; habits, WELLMAN (242-244) Ann. Mag. Nat. Hist. ser. 7 **18**.

Glossinella gen. n. (84) near *Glossina*, *schillingsi* sp. n. Ostafrika (86), GRÜNBERG Zool. Anz. **30**.

Gonia atrata Asia Minor, BISCHOF (174) Wien Ann. Nat. Hist. Hofmus. **20**, sp. n.

Gymnodia pratensis Rob. Desv., Beschreibung, VILLENEUVE Entomol. Ztg. Wien **26** (287).

Haematobia; GRÜNBERG (81) Zool. Anz. **30**.—*H. stimulans* (59) pl. xxx f. 1, AUSTEN British blood-suck. flies.

Hebia flavipes Rob. Desv. Zugehörigkeit zu *Frontina*, VILLENEUVE Entomol. Ztg. Wien **25** (286).

Helicobosca nom. n. for *Theria* Rob.-Desv. 1830, BEZZI Zs. Hymenopter. **6** (49).

Hydrophoria setinervis Togo (71), *fascigera* Kamerun (72), spp. n., STEIN Berliner ent. Zs. **51**.—*H. tarsata* Rhodesia, ADAMS (206) Lawrence Kan. Univ. Sci. Bull. **3**, sp. n.

Hydrotaea; British species described, GRIMSHAW (8-11, 72-77) Ent. Mag. London **42**.

Hypochaeta castellana Spain, STROBL (336) Madrid Mem. Soc. esp. **3**, sp. n.

Hypostena procera Meig.=(*incisuralis* Macq. = *Myobia pisciventr* Pand. = *Melanophora planigena* Pand.), VILLENEUVE (247) Entomol. Ztg. Wien **25**.

Hystericia triangulifera to *Phorocera* (70) pl. iii f. 4, JACOBS Résult. Belgica, Zoologie.

Hystrichoneura frontata Schin. = (*Myobia sprete* Meig. = *Tach. argyreata* Meig.), VILLENEUVE (247) Entomol. Ztg. Wien **25**.

Leucostoma limbata Meig. = (*Ples. nigrisquama* Zett. = *Lithophasia pygmaea* Pand.), VILLENEUVE (248) T.c.

(N-9720 j)

Limnophora candicans Südfrankreich (28), *virgo* (30) Südfrankreich, spp. n., VILLENEUVE Entomol. Ztg. Wien **25**.—*L. flavibasis* Kamerun, *versicolor* Madagaskar, STEIN Berliner ent. Zs. **51** (63), spp. n.

Limnospila Schn. and *Lispocephala* Pok., systematische Stellung, SCHNABL Entomol. Ztg. Wien **25** (267).

Lispa niveimaculata Nyassasee (68), *lateralis* Delagoabai (70), *trilineata* Ceylon (71), spp. n., STEIN Berliner ent. Zs. **51**.

Lucilia; nutrition de larves, GUYÉNOT Paris C.-R. soc. biol. **61** 1906 (634-635).—*L. fasciata* and *flaviceps* Macq. to *Pycnosoma*, AUSTEN (303) Ann. Mag. Nat. Hist. **17**.—*L. bufonivora*, natural history etc., HESLE Biol. Centralbl. **26** (633-640) 1 Taf.

Lyperosia; (82), *L. minuta* Bezzi (86); GRÜNBERG Zool. Anz. **30**.—*L. thilouxi*, *longipalpis*, Sénégal, ROUBAUD (896) Paris C.-R. Soc. biol. 1906, spp. n.—*L. irritans* (60) pl. xxx f. 2, AUSTEN British blood-suck. flies.

Macquartia praefica Meig. = (*echinalis* + *fascicularis* Pand.), VILLENEUVE (248) Entomol. Ztg. Wien **25**.

Masicera ferruginea Meig. = (*Exorista rutila* Rond.), *M. rutila* Meig. = (*Ceromasia rufipes* BB = *Tach. vicinalis* Pand.), VILLENEUVE (247) T.c.

Medoria funesta Meig. = (*Cercomyia curvicauda* Fall.), VILLENEUVE (248) T.c.

Metopia cinerea Perris = (*Hyperectina metopina* Schin.), VILLENEUVE Entomol. Ztg. Wien **25** (41).—*M. nasuta* = (*Phrosina argyrina* R. Desv.), VILLENEUVE (247) T.c.

Micropalpus; the european species, GIRSCHNER (364) Entomol. Ztg. Wien **25**.—*M. pentheri* Asia minor, BISCHOF (175) Wien Ann. Nat. Hist. Hofmus. **20**, sp. n.

Microtricha punctulata v.d. W. = (*Rondania cucullata* + *notata* R. Desv. = *Dystrixa notiventris* Pand.), VILLENEUVE (248) Entomol. Ztg. Wien. **25**.

Miltogramma tricuspis Meig. = (*strenua* Perr. = *Sphinx. lineolata* Rond.), VILLENEUVE (247) T.c.

Morinia velox Rond. = (*Rhinomorinia sarcophagina* Schin.), *M. funebris* Meig. =

(*Hypostena medorina* Schin.), VILLENEUVE (247) T.c.

Musca remuria Walk. to *Pycnosoma*, AUSTEN (303) Ann. Mag. Nat. Hist. 17.—*M. marginalis*, Wied.; *putoria*, Wied. Sudan, AUSTEN Khartoum Rep. Wellcome Res. Lab. 2 (66).

Mydaea pici, BUSCK (2) Washington Proc. ent. Soc. 8.

Myobia pruinosa Meig. = (*Conogaster nubilis* Rond. BB. = *dubia* Pand.), VILLENEUVE (247) Entomol. Ztg. Wien. 25.

Ochromyia jejuna predaceous habits, POULTON (394-396) London Trans. ent. Soc. 1906.

Paracompsomyia houghi (201), *splendida*, *verticalis*, (202), Rhodesia, ADAMS Lawrence Kan. Univ. Sci. Bull. 3, spp. n.

Paramacronychia flavipalpis and *Macronychia meyer-duri*, VILLENEUVE (247) Entomol. Ztg. Wien 25.

Parexorista papuana sp. n. Neu-Guinea, MEIJERE Nova Guinea 5. Livr. 1 (87).

Pegomyia squamifera Norddeutschland and England und Frankreich, *iniqua* Preussen und England (63), *sociella* Schweden (66), *pallida* Nordeuropa (69), *incisura* Mitteleuropa (73), *ventralis* Südeuropa (75), *cacsia* Norddeutschland (78), *solitaria* Schlesien und Oesterreich und Siebenbürgen (80), *maculata* Ungarn und England, *pallipes* Norddeutschland und Holland, (89), *genupunctata* Frankreich (90), *flarisquama* Oesterr. Alpen (91), *virittata* Frankreich und Lapland, *femorata* Steiermark und Engadin und England, (98), *minima* Preussen (100), *palpata* Pommeren (101), spp. n., STEIN Entomol. Ztg. Wien 25.—*P. winthemi* var. *obscura* nov. var. (62), *flavipes* var. n. *diluta* (71), Id. T.c.—*P. micans* sp. n. Kamerun, STEIN Berliner ent. Zs. 51 (73).

Peletieria ferina Zett. = (*Echinomyia paolilli* A. Costa), BEZZI Napoli Annuario Mus. zool. 2 No. 7 (1-2).

Penquistus gen. n. *Muscidae* (349), *cursor* sp. n. Chile (350), KIEFFER, Bruxelles Ann. Soc. scient. 30.

Phorbia brassicae, natural history in Minnesota; WASHBURN (1-17) pl. Rep. 11.

Phorocera inepta Meig. = (*Zenillia alticola* Pand.), VILLENEUVE (247) Ento-

mol. Ztg. Wien 25.—*P. media* Rond., synonymy, characters; VILLENEUVE Entomol. Ztg. Wien 25 (13).

Polietes lirticrura, ♀ characters, WATERSTON (269, 270) Ent. Mag. London 42.

Psalida meridiana Rond. = (*Clelia pubens* Pand.), VILLENEUVE (247) Entomol. Ztg. Wien 25.

Pseudomintho pentheri, *rufipes*, Asia minor, spp. n., *brevipennis* var. n. *minor*, BISCHOF (176) Wien Nat. Hist. Hof. Mus. 20, sp. n.

Pycnosoma = (*Paracompsomyia* Hough) synonymy and components; *P. marginale* Wied. = (*Paracomps. nigripennis* Hough), *P. chloropyga* Wied. = (*Paracomps. houghi* Adams), AUSTEN (301-303) Ann. Mag. Nat. Hist. 17.—*P. marginale* f. 29, *putorium* f. 30, AUSTEN (66) Rep. Wellcome Lab. 2.

(*Rhynchopsilops* gen. n., *R. villosus*, Stillserjoch, Tirol, sp. n., HENDEL, Entomol. Ztg. Wien 22, 1903 (129-131).

Rondania cucullata and *notata* Rob. Desv., Identität mit *Microtricha punctulata* Walp., VILLENEUVE Entomol. Ztg. Wien 25 (286).

Sarcophaga; synonymy of european, KRAMER (216, 217) Zs. Hymenopter. 6.—*S. haematodes* Mg. = (*insatica* Kr.), KRAMER Zs. Hymenopter. 6 (63-64).—*S. leucostylata* (343), *hispanica* (344), Spain, STROBL Madrid Mem. Soc. esp. 3, spp. n.—*S. caridei* Argentina on *Schistocerca*, BRÈTHES (299) An. Mus. Buenos Aires 6, sp. n.

Sarcophila magnifica and *S. carnaria* attacks on man, HAUTEFUEILLE (86-89) Amiens Bull. Soc. linn. 18.

Senotainia rubriventris, oviposition, OSBORN Ohio Nat. 7 (38).

Siphona; parasitism on *Tipula gigantea* and *Lepidoptera*, ROUBAUD Paris C.-R. Acad. Sci. 142 (1438).

Spilogaster uliginosa var. n. *almeriensis*, STROBL (347) Madrid Mem. Soc. esp. 3.—*S. phasiaeformis* (36), *gigas* (37), *cranesceus* (39), Kamerun, *lativentrus* Nyassasee (40), *albivitta* Togo, *trivittata*, (41), *fulgens* (43), Kamerun, *pectoralis* (44) Nyassasee, *setulifera* Australien, *analís*, (45), *planipalpis* (47) Kamerun, *rufina* Togo, *translucens* Madagaskar, (48), *abnormis* (49) Togo, *setigera* (50), *fuscitibia* (51), Kamerun, *fumaria* Sierra Leone (52), *unilineata* Pungo Andango,

serena, (53), *pilifemur* Nyassasee (51), *mollis, costalis*, Caffraria, (55), *mirabilis* (56) Nyassasee, *anthrax* Sierra Leone, *trimaenulata* Nyassasee, (58), *maura* (59), *picea*, Kamerun, *cyanea* (60) Madagascar, *superba* Kamerun (61), **spp. n.**, STEIN Berliner ent. Zs. **51**.—*S. quadriseta* (203), *latifrons* (204), Rhodesia, ADAMS Lawrence Kan. Univ. Sci. Bull. **3**, **spp. n.**

Stomoxys; anatomy, GILES J. trop. Medicine London **9** (99 etc.); internal anatomy, TULLOCH London Proc. R. soc. **B 77** (523–531).—*Stomoxys bilineata, brunnipes*, (89), *glauca* (88), *inornata* (90), *korogutensis* (88), *sellata* (90), **spp. n.**, Afrika, GRÜNBERG Zool. Anz. **30**.—*S. calcitrans*, life-history, NEWSTEAD (157–166) pl. xii J. econ. Biol. London **1**; AUSTEN (58) pl. xxix Brit. blood-suck. flies.

Tachina bella Meig. = (*Argyrophylax pupiphaga* Rond. = *T. discrepanda* Pand.); *T. aurifrons* Meig. = (*Labidogaster agilis* B.B. = *Dionaea aurulans* [R.D.] Pand.); VILLENEUVE (247) Entomol. Ztg. Wien **25**.

Tachinidae; generic nomenclature, 32 cases discussed, BEZZI (50–55) Zs. Hymenopter. **6**.—*Tachinidae* reared from *Lepidoptera*, 16 spp.; MORLEY (270–274) Entomologist 1906.

Tamiclea cinerea Macq. = (*Cistogaster globula* Meig., = *Androphana grandis* S., = *Etheria pedicellata* R. D. and *grisea* Pand.); VILLENEUVE Entomol. Ztg. Wien **25** (43).

Tessarochaeta **nom. n.** for *Tetrachaeta* B. et B., BEZZI Zs. Hymenopter. **6** (50).

Thryptocera crassicornis, host *Simaethis*, SAHLBERG (19) Helsingfors Medd. Soc. Fauna Fl. Fenn. **32**.

MUSCIDAE ACALYPTRATAE.

Catalogue and bibliography of the family *Ephydriidae*; JONES Sacramento Univ. Calif. Publ. Bull. ent. **1** (153–198).

Acalyptrate larvae in spider cocoons, SCHWANGART (105–107) Zs. wiss. Insektenbiol. **2**.

Aerosticta bicolor **sp. n.** Texas, CRESSON (286) Philadelphia Trans. Amer. Ent. Soc. **32**.

Agromyza (Domomyza) lacteifrons (379), *andalusiaca* (380), *obscuripennis* (381), Spain, STROBL Madrid Mem. Soc. esp. **3**, **spp. n.**—*A. carbonaria* Zett. life-

history habits, NIELSEN Zool. Jahrb. Jena Abt. f. Syst. **23** (725–738) 1 Taf.

Allometopon **gen. n.**, aff. *Heteroneuræ fumipenne* **sp. n.** New Guinea, KERTÉSZ Ann. Hist.-Nat. Hung. **4** (320).

Antineura biroi (188), *kerteszi* (189), Neu-Guinea, **spp. n.**, MEIJERE Ann. Hist.-Nat. Hung. **4**.

Apterina pedestris, Auftreten im Frühjahr, MAZARAKIJ St. Petersburg Hor. Soc. Ent. Ross. **37** (xvii–xcix).

Asteia longipennis Rhodesia, ADAMS (188) Lawrence Kan. Univ. Sci. Bull. **3**, **sp. n.**

Automola rafa **sp. n.** New Mexico, CRESSON, (282) pl. vi. f. 5, Philadelphia Trans. Amer. Ent. Soc. **32**.

Borberus marginatus (198), *gravis* (199), Rhodesia, ADAMS Lawrence Kan. Univ. Sci. Bull. **3**, **spp. n.**

Caenia albifacies Rhodesia, ADAMS (181) T.c., **sp. n.**

Capnoptera laufferi Spain, STROBL (363) Madrid Mem. Soc. esp. **3**, **sp. n.**

Ceratites capitata aux environs de Paris; GIARD Paris C.-R. Acad. sci. **143** (353–354).

Chlorops trimaculata Rhodesia, ADAMS (196) Lawrence Kan. Univ. Sci. Bull. **3**, **sp. n.**

Crassiseta tarda, scapularis, (189), *conjuncta, atricornis*, (190), *tuberculata, vulgaris*, (191), Rhodesia, ADAMS T.c., **spp. n.**

Dacus africanus Rhodesia, ADAMS (169) T.c., **sp. n.**

Desmometopa; the reputed parasitism, LUNDSTRÖM (100–104) Helsingfors Medd. Soc. Fauna Fl. Fenn. **32**.

Diastata fuscipennis Macq. to *Diplo-centra*, MEIJERE (332) Zs. Hymenopter. **6**.

Diplopora inconstans flavipes var. n., STROBL (364) Madrid Mem. Soc. esp. **3**.

Drosophila ampelophila, natural history, experiments, CASTLE and others, Boston Mass. Proc. Amer. Ac. **41** (729–786); also CASTLE, inbreeding, crossbreeding and sterility; Science **23** (153).—*D. andalusiaca* Spain, STROBL (372) Madrid Mem. Soc. espan. **3**, **sp. n.**—*D. latifrons, quadrimaculata*, (182), *facialis* (183), *basilaris, flaviseta*, (184), *apicifera, mansura, palpalis*, (185), *proxima* (186), *mutabilis* (187), Rhodesia, ADAMS Lawrence Kan. Univ. Sci. Bull. **3**, **spp. n.**—*D. sigmoides*, habits, AINSLIE (44) Canad. Entomol. **38**.

Ephydra millbrae (155), eggs larvae and pupae (156), *cinerca* (159), California; JONES Sacramento Univ. Calif. Publ. Bull. ent. **1**, **spp. n.**

Euprosopia bilineata **sp. n.** Neu-Guinea, MEIJERE Nova Guinea **5** Livr. 1 (92) f. 14.

Eurina fuscipennis **sp. n.** Neu-Guinea, MEIJERE T.c. (97).

Euxesta minor (286), *pulchella* (287), New Mexico, CRESSON Philadelphia Trans. Amer. Ent. Soc. **32**, **spp. n.**

Gaurax venustus (299), *niger* (300), Oberösterreich, **spp. n.**, CZERNY Entomol. Ztg. Wien **25** (299).

Haplegis scutellaris Rhodesia, ADAMS (196) Lawrence Kan. Univ. Sci. Bull. **3**, **sp. n.**

Helomyza humilis var. *n. montserratensis*, STROBL (352) Madrid Mem. Soc. esp. **3**.

Hiatus **gen. n.** *Ortalidae* (280), *fulvipes* **sp. n.** New Mexico (281) pl. vi figs. 1-4, CRESSON Philadelphia Trans. Amer. Ent. Soc. **32**.

Hypselothyrea **gen. n.** aff. *Drosophilæ* und *Asteiae* (193), *dimidiata* Neu-Guinea, *fascipennis* Vorder Indien, (194), *brevipennis* Neu-Guinea (195), **spp. n.**, MEIJERE Ann. Hist.-Nat. Hung. **4**.

Leptomyza varipennis v. d. Wulp, zu *Oxya*, Beschreibung; CZERNY Entomol. Ztg. Wien **25** (254-255).

Limnia maculatissima Spain, STROBL (353) Madrid Mem. Soc. esp. **3**, **sp. n.**

Limosina marginata Rhodesia, ADAMS (200) Lawrence Kan. Univ. Sci. Bull. **3**, **sp. n.**

Lipara lucens, die Entwicklung der Galle von, REIJNVAAN und DOCTERS VAN LEEUWEN Nijmegen Rec. Trav. Bot. Neerl. **2** 1906 (235-264) 1 Taf.

Lonehaca splendida New Zealand, BROWN (4) New Zealand Dep. Agric. Bull. **4**, **sp. n.**

Melanochaeta **nom. n.** for *Pachychaeta* Bezzi 1895, Bezzi Zs. Hymenopter. **6**.

Meromyza opaca Rhodesia, ADAMS (193) Lawrence Kan. Univ. Sci. Bull. **3**, **sp. n.**

†*Micropeza prompta* Zanzibar fossil copal, MEUNIER (60) Rev. Sci. Bourbon. 1906, **sp. n.**

Milichia unicolor Kamerun, DE MEIJERE (333) Zs. Hymenopter **6**, **sp. n.**

Notiphila varitarsis (177), *confinis* (178), Rhodesia, ADAMS Lawrence Kan. Univ. Sci. Bull. **3**, **spp. n.**

Notiphila varia California, JONES (153) Sacramento Univ. Calif. Publ. Bull. ent. **1**, **sp. n.**

Ochthera subtilis Rhodesia, ADAMS (180) Lawrence Kan. Univ. Sci. Bull. **3**, **sp. n.**

Oscinis rugosa (334), *albinervis* (335), Kamerun, DE MEIJERE Zs. Hymenopter. **6**, **spp. n.**—*O. polita*, *basilaris*, (192), Rhodesia, ADAMS Lawrence Kan. Univ. Sci. Bull. **3**, **spp. n.**—*O. pulchrifrons* (190), *cinerca* (191), *lutea* (192), Neu-Guinea, **spp. n.**, MEIJERE Ann. Hist.-Nat. Hung. **4**.—*O. frit*, [its course of life and its harmfulness in relation to agriculture in Denmark], ROSTRUP **2** Aarhus Meddelelser vedrørende Insektangreb paa Markafgröden i Jylland. **1905** (75-83).

Pachyecerina vaga Rhodesia, ADAMS (172) Lawrence Kan. Univ. Sci. Bull. **3**, **sp. n.**

Pachylophus splendida (193), *proxima* (194), *varipes*, *fossulata*, (195), Rhodesia, ADAMS T.c., **spp. n.**

Paralimna nigripes (178), *ornatipennis*, (179), Rhodesia, ADAMS T.c., **spp. n.**

Parydra aurata San Francisco, JONES (154) Sacramento Univ. Calif. Publ. Bull. ent. **1**, **sp. n.**

Philocompus aeneus **sp. n.** Insel Bali (187), MEIJERE Ann. Hist.-Nat. Mus. Nat. Hung. **4**.

Physogenua bimaculata Rhodesia, ADAMS (171) Lawrence Kan. Univ. Sci. Bull. **3**, **sp. n.**

Phytomyza algeciracensis, *spoliata*, (383), *bistrigata* (384), Spain, STROBL Madrid Mem. Soc. esp. **3**, **spp. n.**—*P. geniculata*, BÖRNER Berlin Arb. biol. Anst. **5** (283-292).

Platystoma ilgunensis, *pentheri*, Asia minor, BISCHOF (177) Wien Ann. Nat. Hist. Hofmus. **20**, **spp. n.**

Psila schineri Spain, STROBL (361) Madrid Mem. Soc. esp. **3**, **spp. n.**

Pterocalla undulata **sp. n.** Guadalajara, CRESSON (283) Philadelphia Trans. Amer. Ent. Soc. **32**.

Pyrgota abjecta Rhodesia, ADAMS (167) Lawrence Kan. Univ. Sci. Bull. **3**, sp. n.

Rhodesiella gen. n. *Agromyzidae* (197), *tarsalis* sp. n. Rhodesia (198), ADAMS T.c.

Rioxa de-beauforti (94) f. 17, *nigra* (95) f. 18, spp. n., Neu-Guinea, MEIJERE Nova Guinea **5** Livr. 1.

Rivellia major Rhodesia, ADAMS (168) Lawrence Kan. Univ. Sci. Bull. **3**, sp. n.

Sapromyza univittata Spain, STROBL (356) Madrid Mem. Soc. esp. **3**, sp. n.—*S. africana* Rhodesia, ADAMS (171) Lawrence Kan. Univ. Sci. Bull. **3**, sp. n.

Scatophaga; prey, POULTON (393) London Trans. ent. Soc. 1906.

Scatophila curtipennis, BECKER (73) pl. iii figs. 1 & 2 Résult. Belgica, Zoologie.

Spedon ornatifrons Rhodesia, ADAMS (166) Lawrence Kan. Univ. Sci. Bull. **3**, sp. n.

Sepsis astutis, *delectabilis*, (174), *propinquus* (175), *petulantis*, *rufa*, (176), Rhodesia, ADAMS Lawrence Kan. Univ. Sci. Bull. **3**, spp. n.—*S. apicalis* (168), *limbata* (169), Neu-Guinea, *plebeia* Sydney (171), *modesta* Vorder-Indien (172), *coprophila* Singapore (176), *decipiens* Neu-Guinea (177), *spectabilis* (178), *tenella* (183), Singapore, *beckeri* Vorder-Indien (185), *hirsuta* N.S. Wales (186), spp. n., MEIJERE Ann. Hist.-Nat. Hung. **4**.—*S. trivittata* Bigot, *rufa* Macq., *basifera* Walk., *javanica* Meij., MEIJERE Ann. Hist.-Nat. Hung. **4**. (173–176).

Siphonellopsis gen. n. near *Siphonella*, *luteibasis* sp. n. Spain, STROBL (366) Madrid Mem. Soc. esp. **3**.

Spilographa zoë variation of wing, GUILLIAUME (223) Bruxelles Ann. Soc. ent. Belgique **50**.

Tephritis (Dacus) xanthodes New Zealand, BROUX (3) New Zealand Dep. Agric. Bull. **4**, sp. n.

Timia punctulata (112), *protuberans* (113), *turgida*, Tibet, *monticola* Alai-Gebirge (114), *dimidiata* (115), *mellina* (116), Kaschgar, *canaliculata* Ost-tur-

kestan (117), spp. n., BECKER Entomol. Ztg. Wien **25**.

Urellia peregrina Rhodesia, ADAMS (170) Lawrence Kan. Univ. Sci. Bull. **3**, sp. n.

Urophora affinis hispanica var. n., STROBL (358) Madrid Mem. Soc. esp. **3**.—*U. apollinaris* Colombia, KIEFFER (351) Bruxelles Ann. Soc. scient. **30**, sp. n.

(*Actenoptera* nom. n. für *Gymnomyza* Strobl, CZERNY, Entomol. Ztg. Wien **23** 1904 (202).)

(*Agromyza simplex* GIARD, Paris Bul. soc. ent. **1904**, (179–181).)

(*Blaesochactophora* gen. n., für *Leia picticornis* Big., CZERNY, Entomol. Ztg. Wien **23** 1904 (206).)

(*Eyrygnathomyia* gen. n., für *Heteromyza opomyzina* Zett., CZERNY, Entomol. Ztg. Wien **23** 1904 (208).)

(*Chactoncrinus* gen. n., for *Nerius inermis* Schin., HENDEL, Entomol. Ztg. Wien **22** 1903 (205).)

(*Helomyziden*, Revision, CZERNY, Entomol. Ztg. Wien **23** 1904 (199–244, 263–286 mit 1 Taf.).)

(*Helomyza setitarsis*, Südtalien, (234), *flagripes*, Schweiz, (235), *stroblii*, Steiermark, Ungarn, (241), *oldenbergii*, Deutschland, Ungarn, CZERNY, Entomol. Ztg. Wien **23** 1904 spp. n.—*Helomyza erinimana* nom. n. für *H. obscuriventris* Strobl *H. pilimana* Rond. CZERNY, Entomol. Ztg. Wien **23** 1904 (277).)

(*Milichinae*, Systematik, HENDEL, Entomol. Ztg. Wien **22** 1903 (249–252).)

(*Neocalcomerus* gen. n. *Agromyzinarum*, HENDEL, T.c. (252).)

(*Neotanypeza* subgen. n. *Tanypeza*, HENDEL, T.c. (203).)

(*Odinia* R.D., Gattungsscharaktere, HENDEL, T.c. (252).)

(*Rhynchomilichia* gen. n. HENDEL, T.c. (250).)

(*Stenoporomyia* gen. n. HENDEL, T.c. (250).)

(*Tanypezinae* nov. sect. *Ortalinarum*, HENDEL, T.c. (205).)

PUPIPARA.

Hippobosca camolina, *francilloni*, *maculata*, Theobald (90–92) pl. x Rep.

Wellcome Lab. **2**.—*H. equina* (63) pl. xxxi, AUSTEN British blood-suck-flies.

Lipoptena cervi varr., LÜHE Königsberg Schr. physik. Ges. **46**; ♂ pl. xxxiii, ♀ pl. xxxiv f. 1, AUSTEN (65) British blood-suck. flies.—*L. ibicis* Sudan, THEOBALD (88) Rep. Wellcome Lab. **2**, sp. n.

Melophagus orinus (67) pl. xxxiv f. 2, AUSTEN British blood-suck. flies.

Nycteribia on *Pteropus medius*, FLETCHER (36) *Spolia zeylan.* **4**.

Ornithomyia aricularia (64) pl. xxxii, AUSTEN British blood-suck. flies.

†INCERTAE SEDIS.

†Fossil Diptera of the Lias; HANDLIRSCH (487–492) Fossil. Ins.

†Of the Jura, id. (628–634).

Such of these fossils as are referred to their families are recorded by us therein; the following are Incertae sedis:—

†*Bibionites* gen. n. for *Macropeza prisca* Brod., HANDLIRSCH (631).

†*Chironomopsis* gen. n. for *Chironomus arrogans* Gieb. and *extinctus* Brod., HANDLIRSCH (632).

†*Polyclona* Menge 1856, in amber, probably *Dipteron*, not a *Coccid*; COCKERELL (35), Washington D.C. Proc. ent. Soc. **8**.

†*Pseudosimulium* gen. n. for *Simulium humidum* Brod., HANDLIRSCH (631) T.c.

†*Sciophilopsis* gen. n., *brodiei* sp. n. Purbeck England, HANDLIRSCH (632) T.c.

APHANIPTERA, or SIPHONAPTERA.

Revue systématique des Aphaniptères décrits jusqu'en 1904, (Russ.), WAGNER St. Petersburg Hor. Soc. Ent. Ross. **37** 1906 (439–471) Taf. ii.

Synonymy of Siphonaptera; OUDEMANS's Gravenhage Ent. Ber. Ned. Ver. **2** 1906 (73–77).

Generic synonymy; OUDEMANS (131–134) Ent. Ber. Nederland **2**.

Wagner's Nebenborstentheorie, OUDEMANS's Gravenhage Tijdschr. Ent. **49** Versl. (liii).

Aphaniptera on *Mus rattus* and *Mus decumanus* in different parts of the

world, ROTHSCHILD (183–485) J. Hygiene **6**.

Fleas and their hosts in Scotland, WATERSTON (211–214) Ann. Scot. Nat. Hist. 1906.

Notizen über Suctoria III; OUDEMANS (Holländisch) 's Gravenhage Ber. Ned. Ent. Ver. **2** 1906 (101–105).

Argopsylla End. is synonym of *Echidnophaga*, JORDAN and ROTHSCHILD (43) Liverpool Thompson Yates Lab. Rep. **7**.

Ceratophyllus and *Ceratopsyllus* nomenclat. note, JORDAN and ROTHSCHILD (176) Nov. Zool. Tring **13**.—*C. insularis* England, N. C. ROTHSCHILD (59) pl. ii Ent. Mag. London **42**, sp. n.—*C. isidori* Weyenb. to *Ischnopsyllus*, JORDAN and ROTHSCHILD (177) Nov. Zool. Tring **13**.

Ceratopsyllus crosbyi queried, ROTHSCHILD (187) Nov. Zool. Tring **13**.

Chaetopsylla homoeus (222), *lasius* (223), Centr. asia, ROTHSCHILD Ent. Mag. London **42**, spp. n.—*C. setosus* Canada, ROTHSCHILD (321) Canad. Entomol. **38**, sp. n.

Ctenocephalus felis = (*parviceps* Weyenb.), variation; ROTHSCHILD and JORDAN (175) Nov. Zool. Tring **13**.

Ctenopsyllus selenis (322), *hamifer* (324), Canada, ROTHSCHILD Canad. Entomol. **38**, spp. n.

Dermatophilus, *Rhyuchopriion* discussed as names, JORDAN and ROTHSCHILD (170) Nov. Zool. Tring **13**.

Echidnophaga macronychia Australia (45) pl. i figs. 7, 8 etc., *bradyta* (47), *larina* (49), *aethiops* (51), S. Africa, *liopus* W. Australia (56); JORDAN and ROTHSCHILD Liverpool Thompson Yates Lab. Rep. **7**, spp. n.

Hectopsylla coniger Bolivia (59), *broscus* Argentina (60), JORDAN and ROTHSCHILD T.c., spp. n.—*H. psittaci* Frauenf. = (*testudo* Weyenb.), JORDAN and ROTHSCHILD (171) Nov. Zool. Tring **13**.

Ischnopsyllus = (*Ceratopsyllus*), JORDAN and ROTHSCHILD (176) Nov. Zool. Tring **13**.—*Ischnopsylla*; Arten, OUDEMANS's Gravenhage Tijdschr. Ent. **49** (lii).—*Ischnopsyllus simplex* (= *oetactena* Wagn.) Europe, (186), *gestroi* Italy (187), ROTHSCHILD Nov. Zool. Tring **13**, spp. n.

Malacopsylla Weyenb. = (*Megapsylla* Baker); *grossirentis* Weyenb. = (*androeli* Rothsch. = *tolypeutis* End.); JORDAN and ROTHSCHILD (171–173) Nov. Zool. Tring **13**.

Nycteridopsylla gen. n. für *Ceratopsyllus pentaetenus* Kol., *bouchei* nom. n. für *respertilionis* Bouché, OUDEMANS's Gravenhage Tijdschr. Ent. **49** Versl. (Iviii).

Pulex chersinus Khartoum on *Jaeculus*, ROTHSCHILD (75) pl. iv Entomologist 1906, sp. n.—*P. cheopis*, anatomy, ROTHSCHILD J. Hygiene **6** (486–495) pl. ix.—*P. caricola* Weyenb. = (*concitus* Rothsch.), ROTHSCHILD and JORDAN (174) Nov. Zool. Tring **13**.

Pygiopsylla gen. n. type *Ceratophyllus hilli* Rothsch., *colossus* sp. n. Tasmania; ROTHSCHILD (221) Ent. Mag. London **42**.

Rhopalopsyllus Baker, validity doubtful, JORDAN and ROTHSCHILD (173, 174) Nov. Zool. Tring **13**.

Sarcopsyllidae, revision, JORDAN and ROTHSCHILD Liverpool Thompson Yates Lab. Rep. **7** (15–72) 4 plates, includes many observations on the morphology and taxonomy of *Aphaniptora* generally.

Trichopsylla cuspidata Kol., Synonyme von *Ctenocephalus erinaceus* (Bouché), OUDEMANS's Gravenhage Tijdschr. Ent. **49** (1–lix).

Vermipsylla; Uebersicht der Arten, WAGNER St. Petersburg Hor. Soc. Ent. Ross. **37** (349–471; Taf. ii).

(*Ceratophyllus rothschildi*, N. S. Wales (on *Dasyurus maculatus*. Kerr.) RAINBOW. Sydney, N.S.W., Rec. Austr. Mus. **6** (103, figg.) sp. n.)

(*Ctenopsyllus musculi*, Duges. (Now recorded from Australia), RAINBOW. Sydney, N.S.W., Rec. Austr. Mus. **6** (109).)

HEMIPTERA.

The genera of Hemiptera, 1758–1843, KIRKALDY (253–257) Entomologist 1906 (concluded).

On Kirkaldy's recent alterations of nomenclature, criticism, BERGROTH (8–12) Entomol. Ztg. Wien **25**.

Conorrhyncha Bredd. and Börn. belongs to *Diptera*, not *Hemiptera*; SILVESTRI (350) Redia **3**.

Heteroptera.

Catalogue of the genera of *Pagiopoda*, (*Anthocoridae* to *Notonectidae*) with types of genera, KIRKALDY Philadelphia Pa. Trans. Amer. ent. Soc. **32** (117–153).

Prey of *Hemiptera* in Britain, POULTON (403–408) London Trans. ent. Soc. 1906.

Spermatogenesis, *Heteroptera*, with new nomenclature; MONTGOMERY Philadelphia Pa. Trans. Amer. Phil. Soc. **21** (97–173).

PENTATOMIDAE.

Apparat zum Oeffnen der Eischale bei den Pentatomiden; HEYMONS Zs. wiss. Insektenbiol. Husum **2** 1906 (73–82).

Aednulus gen. n., *podopoides* sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. **24** (40–41).

Aednus ellipticus sp. n. Celebes, BREDDIN (39) T.c.

Aenaria Stål; Diagnose, BERGROTH Entomol. Ztg. Wien **25** (2).

Allportia gen. n. for *Platycoris scutellatus* van Duzee, SCHOUTEDEN (140) Bruxelles Ann. Soc. ent. Belgique **50**.

Anchises proximus New Pommernania, SCHOUTEDEN (139) T.c., sp. n.

Antestia atosignata S. Africa, DISTANT (287) Ann. Mag. Nat. Hist. **18**, sp. n.—*A. laevigata*, *pauperata*, spp. n., Celebes, BREDDIN Halle Abh. natf. Ges. **24** (54–55).

Aphylum gen. n. (644), *syntheticum* sp. n. Australien (646), BERGROTH Zool. Anz. **29** (646).—*A. bergrothi* Australia, SCHOUTEDEN (215) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.—*A. bergrothi* pl. i figs. 1 and 2, *syntheticum*, SCHOUTEDEN Gen. Ins. fasc. **47**.

Aurungabada gen. n. *Tessaratominae*, *singularis* sp. n. Bombay, DISTANT (408) Bruxelles Ann. Soc. ent. Belgique **50**.

Bathyeolia thalassina, early stages, SCHOUTEDEN Zs. wiss. Insektenbiol. **2** (82–88).

Byrsinus discus sp. n. W. Asia, und Uebersicht der russisch-asiatischen Arten, JAKOVLEV Rev. russ. ent. **6** (52).

Calliphara nitidissima New Guinea, SCHOUTEDEN (138) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Cantao puleher Queensland, SCHOUTEDEN (137) T.c., sp. n.

Carbula munda sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. **24** (45).

Catadipson sus sp. n. Togo, BREDDIN Entomol. Ztg. Wien **25** (198).

Cazira fruhstorferi sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. **24** (59).

Coryzorrhaphis superba sp. n. Peru, BREDDIN Entomol. Ztg. Wien **25** (196).

Cuspicona nigra sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. **24** (56).

Dalpada hilaris sp. n. Celebes, BREDDIN T.c. (33).—*D. silvatica* (256), *punctulata* (257), Madagascar, BERGROTH Bruxelles Ann. Soc. ent. Belgique **50**, spp. n.

Dendrocoris (Liotropis) schaefferi sp. n. Texas, BARBER (262) Brooklyn Mus. Bull. **1**.

Dinidor strigatus Walk., Identität mit *Empicoris lineatus* Dall., BERGROTH Entomol. Ztg. Wien **25** (1).

Doryeoris rutherfordi, DISTANT (286) Ann. Mag. Nat. Hist. **18**.

Elasmostethus minor Horv., ROYER Paris Bull. soc. ent. **1906** (287–288).

Empicoris lineatus Dall. = (*hiuleus* Bergr.), BERGROTH, Entomol. Ztg. Wien **25** (1).

Euaenaria jucunda Bredd., zu *Aenaria*, BREDDIN Entomol. Ztg. Wien **25** (246).

Eusarcoris modestus Ceylon, DISTANT (406) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.—*E. decoratulus* sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. **24** (44).—*E. distinctus* Australia, SCHOUTEDEN (142) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Euschistus borillus Dist., Zugehörigkeit zu *Mormidea*, BERGROTH Entomol. Ztg. Wien **25** (2).

Galedanta compastoides sp. n. Manao, BREDDIN Entomol. Ztg. Wien **25** (192).

Geocrypha gen. n. *Scutellerinae* (254), *scabra* sp. n. Madagascar (255), BERGROTH Bruxelles Ann. Soc. ent. Belgique **50**.

Halyomorpha viridinigra sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. **24** (43).

Halys simplinervis Madagascar, BERGROTH (258) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Hermolaus swierstrae Transvaal, DISTANT (288) Ann. Mag. Nat. Hist. **18**, sp. n.

Hippotiscus nom. n. for *Plexippus* Stål (= *Hippota* Bergr.); BERGROTH Entomol. Ztg. Wien **25** (2).

Hoplodistera validicornis sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. **24** (48).

Kallamba gen. n. near *Malgassus* (288), *typica* sp. n. Natal (289), DISTANT Ann. Mag. Nat. Hist. **18**.

Lagynotomus gen. n. für *Aenaria assimulans* Dist., BREDDIN Entomol. Ztg. Wien **25** (245).

Macrocytus celebensis sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. **24** (36).

Megymenum rectangulatum sp. n. Celebes, BREDDIN T.c. (63).

Menestheus semoni Horv. zu *Paramenestheus* Bredd., BERGROTH Entomol. Ztg. Wien **25** (2).

Menida cingalensis, wellavayae, Ceylon, DISTANT (407) Bruxelles Ann. Soc. ent. Belgique **50**, spp. n.

Mustha morgani, gigantea, Persia, HORVÁTH Bul. Mus. Paris **1906** (515), spp. n.

Nesagaeus gen. n. *Halyinae* (260), *hamulatus* sp. n. Madagascar (261), BERGROTH Bruxelles Ann. Soc. ent. Belgique **50**.

Nesobius gen. n. *Halyinae*, *albescens* sp. n. Madagascar, BERGROTH (264) T.c.

Nezara nigropicta sp. n. Manao, BREDDIN Entomol. Ztg. Wien **25** (193).

Niphe praecursor sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. **24** (42).

Novatilla Dist., Zugehörigkeit zu *Anaxilais* Stål, BERGROTH Entomol. Ztg. Wien **25** (3).

Odontotarsus; *Monographia* (463–483) 2 fig.; *concinus* Biskra (476), *placatus* Syria (482), **spp. n.**; *rufescens* var. n. *vittiger* (479), *purpureo-lineatus* varr. n. *obsoletus* and *decolor* (474), *impietus* var. n. *mendax* (477); HORVÁTH Ann. Hist.-nat. Hung. 4.

Oneacontias vittatus = (*brunneipennis* Bredd.), BERGROTH (3) Entomol. Ztg. Wien 25.

Pachycoris nitidiventris **sp. n.** Costa Rica (190); *P. torridus* varr. n. *moestissima* and *laetissima* (191); BREDDIN Entomol. Ztg. Wien 25.

Peltopecta **nom. n.** for *Coptopelta*, BERGROTH (40) Wien ent. Zeit. 1904.

Peribalus fissiceps Asia Minor, HORVÁTH (180) Wien Ann. Nat. Hist. Hofmus. 20, **sp. n.**

Philia fenestrata **sp. n.** Celebes, BREDDIN Halle Abh. natf. Ges. 24 (35). —*P. leucochalcea* Bredd., Identität mit *Ph. regia* Bergr., BERGROTH Entomol. Ztg. Wien 25 (1).

Placosternum bos Ceylon, DISTANT (406) Bruxelles Ann. Soc. ent. Belgique 50, **sp. n.**

Podisus maculiventris, natural history, variation, MORRILL Washington Bull. U. S. Dept. Agric. Bur. Ent. No. 60 (155–161).

Pocilometis uniformis New South Wales, SCHOUTEDEN (139) Bruxelles Ann. Soc. ent. Belgique 50, **sp. n.**

Prionocompastes nigriventris **sp. n.** Celebes, BREDDIN Halle Abh. natf. Ges. 24 (57).

Proctophantasta forficuloides Ceylon, DISTANT (409) Bruxelles Ann. Soc. ent. Belgique 50, **sp. n.**

Pseudostollia **gen. n.**, BREDDIN Halle Abh. natf. Ges. 24 (65).

Pygoplatys celebensis **sp. n.** Celebes, BREDDIN T.c. (62).

Roebournea **gen. n.** for *Phyllocephala tumidifrons* van Duzee, SCHOUTEDEN (141) Bruxelles Ann. Soc. ent. Belgique 50.

Sabaeus sarasinorum **sp. n.** Celebes, BREDDIN Halle Abh. natf. Ges. 24 (49).

Sastragula tristicta **sp. n.** Celebes, BREDDIN T.c. (64).

Sepina conjungens Comoro Ins., BERGROTH (197) Bruxelles Ann. Soc. ent. Belgique 50, **sp. n.**

Sepontia australis Queensland, SCHOUTEDEN (142) Bruxelles Ann. Soc. ent. Belgique 50, **sp. n.**

Serbana **gen. n.** *Phloeinae*, *borneensis* **sp. n.** Borneo, DISTANT (405) Bruxelles Ann. Soc. ent. Belgique 50.

Stiretrus bifrenatus **sp. n.** Ecuador, BREDDIN Entomol. Ztg. Wien 25 (194).

Tessaratomya rubida **sp. n.** Celebes, BREDDIN Halle Abh. natf. Ges. 24 (61). —*T. spinipes* E. Africa, BERGROTH (196) Bruxelles Ann. Soc. ent. Belgique 50, **sp. n.**

Testrica distincta, no locality, SCHOUTEDEN (138) Bruxelles Ann. Soc. ent. Belgique 50, **sp. n.**

Zangiola **gen. n.**, *nitida*, *punctulata*, **spp. n.**, Celebes, BREDDIN Halle Abh. natf. Ges. 24 (51–53).

Zangis igno'a New Guinea, SCHOUTEDEN (141) Bruxelles Ann. Soc. ent. Belgique 50, **sp. n.**

Zaplutus brevispinis Madagascar, BERGROTH (265) Bruxelles Ann. Soc. ent. Belgique 50, **sp. n.** —*Z. liturifer* Walk. (as *Dalapada*) = (*madagascariensis* Fall.), SCHOUTEDEN (252) Bruxelles Ann. Soc. ent. Belgique 50.

The following entries of Pentatomidae have previously appeared in the Zoological Record:—

(*Aspavia brunnea* Sign., Synonymie, SCHOUTEDEN, Entomol. Ztg. Wien 24 1905 (51).)

(*Caenomorpha crassa* Dist., Synonymie, SCHOUTEDEN, T.c. (51)).

(*Catacanthus reuteri* Madagascar, SCHOUTEDEN, T.c. (51) **sp. n.**)

(*Chipatula splendidula* **nom. n.** SCHOUTEDEN, T.c. (51).)

(*Dalsira gelei* **nom. n.** fur *Schismatops gelei* Dist., *albopunctulata* Bergr. var. n. *pallida* Kongo, SCHOUTEDEN, T.c. (55).)

(*Garsauria haglundiana* **nom. n.** fur *G. haglundii* Schout. nec. Bergr., SCHOUTEDEN, T.c. (51).)

(*Lerida* Karsch, Synonymie, SCHOUTEDEN, T.c. (51).)

(*Lobopeltista* nom. n. für *Lobopelta* Schout., SCHOUTEDEN, T.c. (55).)

(*Menukias* Kirk., Zugehörigkeit zu *Lerida* Karsch, SCHOUTEDEN, T.c. (51).)

(*Montandonista* nom. n. für *Montandoniella* Schout., SCHOUTEDEN, T.c. (51).)

(*Nezara emmerezi* Mauritius, (52), *soror*, Madagascar, (53), *congo*, Kongo, (54), spp. nn. SCHOUTEDEN, T.c.)

(*Schizops icterica* Gerst., Zugehörigkeit zu *Dalsira*, SCHOUTEDEN, T.c. (55).)

(*Storthogaster junodi* Dist. var. n. *rikallensis*, Mozambique, SCHOUTEDEN, T.c. (55).)

COREIDAE.

Agraphopus brevicollis sp. n. Madagascar, BERGROTH Entomol. Ztg. Wien 25 (18).

Alydus setosus sp. n. Arizona, VAN DUZEE (386) Ent. News 17.

Brachylybas laticeps New Guinea, BREDDIN (47) Bruxelles Ann. Soc. ent. Belgique 50, sp. n.

Cletus robustior sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. 24 (73).

Colpura breddini sp. n. Java, BERGROTH Entomol. Ztg. Wien 25 (12).—*C. guttatipes*, *conspersipes*, *roratipes*, spp. n., Celebes, BREDDIN Halle Abh. natf. Ges. 24 (68–70).—*C. terebrans* Assam (50), *C. (Microcolpura) pacalis* Borneo (51), *speculigera* (52), *humilis*, *C. (Eucolpura) dolens*, (53), Sumatra, BREDDIN Bruxelles Ann. Soc. ent. Belgique 50, spp. n.

Corizus zebraicus Borneo, DISTANT (109) Bruxelles Ann. Soc. ent. Belgique 50, sp. n.

Esperanza gen. n. near *Cydamus* (269), *texana* sp. n. Texas (270), BARBER Brooklyn Mus. Bull., 1.

Hyocephalus gen. n. (647), *aprugnus* sp. n. (648) Australien, BERGROTH Zool. Anz. 29.

Leptoglossus phyllopus method of feeding, GIRAULT Ent. News 17 (382–383).

Leptosecelis bishimaculata sp. n. Costa Rica, BREDDIN Entomol. Ztg. Wien 25 (200).

Narnia snowi Arizona (384), *wilsoni* California (385), VAN DUZEE Ent. News 17, spp. n.

Notobitus celebenis sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. 24 (67).

Pephricus fryi Transvaal, DISTANT (289) Ann. Mag. Nat. Hist. 18, sp. n.

Petillia tristis sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. 24 (66).

Rhombolaparus gen. n. *Brachytaria* (17), *tardigradus* Madagascar sp. n. (18), BERGROTH Entomol. Ztg. Wien 25.

Riptortus horvathi nom. n. für *R. scrippes* Horv., BERGROTH Entomol. Ztg. Wien 25 (4).

Stenocolpura nugax Java, BREDDIN (55) Bruxelles Ann. Soc. ent. Belgique 50, sp. n.

Typhlocolpura inops (56), *cyena* (57), Java, BREDDIN Bruxelles Ann. Soc. ent. Belgique 50, spp. n.

(*Colobasiastes* gen. n., (246), *krügeri*, Java (245), *albipes*, *nigrifrons*, Bolivia, (247) spp. n., BREDDIN, Entomol. Ztg. Wien 22 1903 (246).)

(*Lybindus subcittatus* BERGROTH, Rev. ent. Caen 24 1905 sp. n.)

(*Savius bergi* BERGROTH, Rev. ent. Caen 24 1905 sp. n.)

LYGAEIDAE.

Agunga gen. n. near *Apollonius*, *crassa* sp. n. Ceylon, DISTANT (413) Bruxelles Ann. Soc. ent. Belgique 50.

Aphanus heuritti, *raja*, Borneo, DISTANT (415) T.c., spp. n.

Arocatus continctus Ceylon, DISTANT (410) T.c., sp. n.

Aspilogeton gen. n., *nubicola* sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. 24 (78–79).

Blissus leucopterus, SANDERSON Ent. News 17 (361–366).

Bulacus Dist., eine unbestimmbare Larvengattung, BERGROTH Entomol. Ztg. Wien 25 (4).

Callistonotus gen. n. near *Aphanus* für *Rhyparochromus nigroruber* Stål, HORVÁTH (182) Wien Ann. Nat. Hist. Hofmus. 20.

Coracodrymus gen. n., *musciola* sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. 24 (80–81).

Critobulus Dist., unbestimmbare Larvengattung, BERGROTH Entomol. Ztg. Wien **25** (4).

Dieuches nudipes Ceylon & Java (325), *horni* (326), *villosulus* (327), Ceylon, *kreyenbergi* China (328), *jacobsoni* Java (329), *schultzei* Sumatra (330), **spp. n.**, BREDDIN Stettiner ent. Ztg. **67**.

Dindymus rubiginosus var. n. *geniculatus* Celebes, BREDDIN Halle Abh. natf. Ges. **24**.

Dinomachus rhacinus (410), *nitidiusculus* (411), Ceylon, DISTANT Bruxelles Ann. Soc. ent. Belgique **50**, **spp. n.**

Dyakana **gen. n.** for *Lygaeus dissimilis* Walk., DISTANT (412) T.c.

Eremocoris obscurus **sp. n.** Vancouver, VAN DUZEE (388) Ent. News **17**.

Kanigara **gen. n.** near *Aphanus* (414), *flavomarginata* **sp. n.** Ceylon (415), DISTANT t.c.

Laxamana **gen. n.** near *Narbo*, *typicalis* **sp. n.** Borneo, DISTANT (416) Bruxelles Ann. Soc. ent. Belgique **50**.

Ligyrocoris pseudoheraeus **sp. n.** Texas, BARBER (275) Brooklyn Mus. Bull. **1**.

Lygaeus hospes var. n. *celebensis*, BREDDIN Halle Abh. natf. Ges. **24**.—*L. militaris* Sudan, THEOBALD Khartoum Rep. Wellcome Res. Lab. **2** (95–96).

Mahisa **gen. n.** *Cleradaria* (412), *ceromatia* **sp. n.** Ceylon (413), DISTANT Bruxelles Ann. Soc. ent. Belgique **50**.

Masoas **gen. n.** *Heterogastrinae*, *transvaalensis* **sp. n.** Pretoria; DISTANT (290) Ann. Mag. Nat. Hist. **18**.

Oxycaenus dudgeoni, *gossipinus*, Sierra Leone, DISTANT (269) Entomologist 1906, **spp. n.**—*O. lavaterae*, abundance at Lago Maggiore, G. S. SAUNDERS (215) Ent. Mag. London **42**.

Perigines similis **sp. n.** Texas, BARBER (276) Brooklyn Mus. Bull. **1**.

Peritrechus tristis **sp. n.** Vancouver, VAN DUZEE (388) Ent. News **17**.

Plinthisus lativentris Irkutsk (274), *afcr* with var. *kilimensis* Africa orient. (275), **spp. n.**, HORVÁTH Ann. Hist.-Nat. Hung. **4**.—*P. lativentris* Sibérie (274), *afcr* Afrique orient. allemande, (275), **spp. n.**, HORVÁTH Ann. Hist.-Nat. Hung. **4**.

Plociomera ohlini Hagl., Identität mit *Bergidia polychroma* Spin., BERGROTH Entomol. Ztg. Wien **25** (1).

Salaciola **gen. n.** near *Sinierus*, *nana* Madagascar **sp. n.**, BERGROTH Entomol. Ztg. Wien **25** (19).

Scelopostethus pictus, egg fig. 9, larva fig. 10, (141, 142) MJÖBERG Zs. wiss. Insektenbiol. **2**.

Tamasanka **gen. n.** *Heterogastrinae*, *limbata* **sp. n.** Transvaal; DISTANT (291) Ann. Mag. Nat. Hist. **18**.

Togo **gen. n.**, *victor* **sp. n.** Japan; BERGROTH (335) Ent. News **17** (335–336).

Tropistethus simulans Ceylon, DISTANT (414) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**—*T. fasciatus* neu für Russland, JAKOVLEV St. Petersburg Hor. Soc. Ent. Ross. **37** (220).

Xestocoris **gen. n.** *Lethacria* (389), *nitens* **sp. n.** New York (390), VAN DUZEE Ent. News **17**.

PYRRHOCORIDAE.

Aderrhis **nom. n.** cf. *Adheris*.

Adheris **gen. n.** near *Dermatinus* (199), altered to *Aderrhis* (251), *pulla* **sp. n.** E. Africa (200), BERGROTH Bruxelles Ann. Soc. ent. Belgique **50**.

Callibaphus gigas Comoro Ins., BERGROTH (198) T.c., **sp. n.**

Dermatinus reticulatus Sign. zu *Pyrrhocoris*, BERGROTH Entomol. Ztg. Wien **25** 1906 (4).

Physopelta elegantula Bredd. = *Ph. pyrrhocorides*, BERGROTH l.c.

Pyrrhocoris apterus, Spermatogenese, Gross Zool. Jahrb. Anat. **23** (269–336) 2 Taf.

TINGITIDAE.

Die Tingitiden des palaearktischen Faunengebietes (ungarisch); HORVÁTH Math. Term. Ért. Budapest **24** 1906 (495–502).

Synopsis Tingitidarum regionis palaearticae; HORVÁTH Ann. Hist.-Nat. Hung. **4** 1906 (1–118) Tab. i.,

Tingitides d'Achille Costa, types, synonymy; HORVÁTH Napoli Annuario Mus. zool. **2** No. 10 1906 (1–3).

Modifications histologiques apportées aux fleurs du *Teucrium chamaedrys* et du *Teucrium montanum* par des larves de *Copium*; HOVÁTH Paris C.R. Acad. sci. **143** (927-929).

Acalypta elegans sp. n. Sibiria orientalis (32), HORVÁTH Ann. Hist.-Nat. Hung. **4**.

Biskria; palaearkt. regionis HORVÁTH T.c. (34-35).

Calliphanes nom. n. for *Stephanitis* Champ. nec Stål; HORVÁTH (34) Ent. Mag. London **42**.

Campylosteira pilicornis (19), *libanotica* (21), spp. n., Syria, HORVÁTH Ann. Hist.-Nat. Hung. **4**.

Cantaeader laticollis Algéria (11) fig. 7, *angulipennis* Hispania (12) fig. 3, spp. n.; *C. quadricornis* var. n. *nubilus* (12); HORVÁTH T.c.

Catoplatus hilaris sp. n. Syria (90), *anticus* var. n. *syriacus* (88); HORVÁTH T.c.

Copium; palaearkt. Arten, HORVÁTH (91-94) T.c.

Corythaea pergandei Washington sp. n., HEIDEMANN Washington Proc. Ent. Soc. **8** (10).

Derephysia; palaearkt. Arten, HORVÁTH Ann. Hist.-Nat. Hung. **4** (45-47).

Dictyonota reuteri sp. n. Syria (142), HORVÁTH T.c.

Diplogomphus gen. n. near *Elasmo-gnathus*, *capusi* sp. n. Cochín Chine, HORVÁTH (296) Paris Bull. Soc. ent. **1906**.

Elasmotropis testacea H.-Sch. varr. n. *vicina* and *platydera* HORVÁTH Ann. Hist.-Nat. Hung. **4** 1906 (58).

Galeatus; palaearkt. Arten, HORVÁTH (49-54) T.c.

Pyalochiton; palaearkt. Arten, HORVÁTH Ann. Hist.-Nat. Hung. **4** (48-49).

Lasicantha; palaearkt. Arten, HORVÁTH (59-61) T.c.

Monanthia sahlbergi sp. n. Turkestan (100), HORVÁTH T.c.

Monosteirra; palaearkt. Arten, HORVÁTH (104-107) T.c.

Oncochila; palaearkt. Arten, HORVÁTH (96-97) T.c.

Phaenotropis subgen. n. von *Monosteira*; *M. parrula* Sign. HORVÁTH (106) T.c.

Physatochila; palaearkt. Arten, HORVÁTH (91-96) T.c.

Piesma tenella Turcomania (8), *rotundata* Syria (9), spp. n., HORVÁTH T.c.—*P. bicolorata* Transvaal, DISTANT (292) Ann. Mag. Nat. Hist. Ser. **7** **18**, sp. n.

Serenthia globiceps Syria (111), *umbrosa* (113), *melanoscelis* (114), Algeria, spp. n.; *atricapilla* varr. n. *mendax* and *pallens* (111), *laeta* var. n. *poppii* (116); HORVÁTH Ann. Hist.-Nat. Hung. **4**.

Stephanitis Stål = (*Cadamustus* Dist. = *Maecenas* Kirk.); HORVÁTH (34) Ent. Mag. London **42**.—S.; palaearkt. Arten, HORVÁTH Ann. Hist.-Nat. Hung. **4** (54-56).—*S. gallarum* Bengal, HORVÁTH (33) Ent. Mag. London **42**, sp. n.

Tingis deserticola (71), *leptochila* (74), Turkestan, *denudata* Algeria (75), *fuentei* Hispania (76), *stupidula* Syria (77), *demissa* Asia Minor (78), *granadensis* Hispania (80), *reuteri* Turcomania (81), *cappadocica* Asia Minor (82), spp. n., HORVÁTH Ann. Hist.-Nat. Hung. **4**.—*T. demissa* (182), *cappadocica* (183), Asia minor, HORVÁTH Wien Ann. Nat. Hist. Hofmus. **20**, sp. n.

(*Acanthocheila kaharalu* KIRKALDY, Paris Bul. soc. ent. **1905**, sp. n.)

(*Americia annae* KIRKALDY, Paris Bul. soc. ent. **1905**, sp. n.)

(*Manuala* gen. n. *leimahoni* KIRKALDY, Paris Bul. soc. ent. **1905**, sp. n.)

ARADIDAE.

Aradus concinnus ♀ (198); *A. cincticornis* Alabama (198), *heidemanni* Oregon (199), spp. n.; BERGROTH Canad. Entomol. **38**.

Coloborrhinus nom. n. for *Coloborhynchus* Champ., BERGROTH (202) T.c.

Eumenotes insularis Sangir isld., DISTANT (417) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Mezira = (*Brachyrrhynchus*) (202), *M. jamaicensis* sp. n. Jamaica (201), BERGROTH Canad. Entomol. **38**

BERYTIDAE.

Apoplymnus pectoralis neu für Russlands, JAKOVLEV St. Petersburg Hor. Soc. Ent. Ross. **37** (220-246).

Jalysus wickhami **sp. n.** California and Arizona, VAN DUZEE (387) Ent. News **17**.

PHYMATIDAE.

Narina **gen. n.** (413), *capensis*, *elizabetha*, **spp. n.**, S. Africa, (414), DISTANT (Cape Town Trans. S. Afric. Phil. Soc. **16**).

GERRIDAE, or HYDROMETRIDAE.

Gerris; Lage der Stinkdrüse, BERGROTH Entomol. Ztg. Wien **25** (6).—*G. annulicornis*, *ulpina*, **spp. n.**, Celebes, BREDDIN Halle Abh. natf. Ges. **24** (83-85).

Halobates herdmanni Ceylon, CARPENTER (151) I plate London R. Soc. Rep. Pearl Oyster **5**, **sp. n.**—*H. rullerstorffi*, mer des sargasses, MONACO (624) Paris C.-R. Acad. Sci. **142**.

Hermatobatodes; Identität mit *Hermatobates*, BERGROTH Entomol. Ztg. Wien **25** (6).

Perittopus breddini forma macroptera, BERGROTH T.c. (16).

Ptilomera pamphagus, *doreus*, *laelaps*, *oribasus*, **spp. n.**, Celebes, BREDDIN Halle Abh. natf. Ges. **24** (86-88).

REDUVIIDAE (incl. Emesidae and Nabidae).

Acanthaspis erlangeri (22) and var. *apicalis*, *annulata* (23), E. Africa, SCHOUTEDEN Bruxelles Ann. Soc. ent. Belgique **50**, **spp. n.**

Afrocastra Bredd. ; Identität mit *Katanga* Schout., BERGROTH Entomol. Ztg. Wien **25** (5).

Allomastix **gen. n.** für *Diaditus errabundus* Dist., BERGROTH (4) T.c.

Antiopula typicalis Ceylon, DISTANT (367) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Arilus cristatus, number of eggs, GIRAULT (16) Ent. News **17**.

Bagauda splendens Ceylon, DISTANT (364) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Cerilocus waterbergensis Transvaal, DISTANT (292) T.c., **sp. n.**

Coranus subapterus, egg, MjöBERG (17) Uppsala Arkiv. Zool. **3** No. 6.

Darbanus subunicolor **sp. n.** Celebes, BREDDIN Halle Abh. natf. Ges. **24** (94).

Dystecta **gen. n.**, *mendica* **sp. n.** Celebes, BREDDIN T.c. (98-99).

Ectrichodia Lep. S. und *Ectrychotes* Burm., Synonymie, BERGROTH Entomol. Ztg. Wien **25** (5).—*Ectrichodia splendens* (24), *heequi* (25), *hirsuta* (26), E. Africa, SCHOUTEDEN Bruxelles Ann. Soc. ent. Belgique **50**, **spp. n.**

Emesella immitis Venezuela, BERGROTH (312) Wien Verh. Zool.-bot. Ges. 1906, **sp. n.**

Endochus viduus, *pauli*, *frideriei*, *sarasinorum*, **spp. n.**, Celebes, BREDDIN Halle Abh. natf. Ges. **24** (91-93).

Eriximachus Dist.; unhaltbare Larvengattung, BERGROTH Entomol. Ztg. Wien **25** (5).

Gallobelgicus **gen. n.** *Polididusaria* (370), *typicus* **sp. n.** Ceylon (371); DISTANT Ann. Mag. Nat. Hist. **18**.

Ghilianella assanutrix (314), *pascoei* (315), *semipallida* (317), *clariventris* (318), *globifera* (319), Venezuela, BERGROTH Wien Verh. Zool.-bot. Ges. 1906, **spp. n.**

Guithera **gen. n.** near *Bagauda*, *hortensia* (364), *rubifera* (365), **spp. n.**, Ceylon; DISTANT Ann. Mag. Nat. Hist. **18**.

Harpactor niger neu für Russlands, JAKOVLEV St. Petersburg Hor. Soc. Ent. Ross **37** (220-246).

Havinthus ruforarius Berg. var. von *H. longiceps* Stål, BERGROTH Entomol. Ztg. Wien **25** (5).

Hedioris imitans E. Africa, SCHOUTEDEN (27) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**

Ischnonyetes inermiceps Madagascar, BERGROTH (270) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**—*I. marcidus*, BERGROTH (321) Wien Verh. Zool.-bot. Ges. 1906.

Lanea **gen. n.** near *Platerus* (369), *kandyensis* **sp. n.** Ceylon (370); DISTANT Ann. Mag. Nat. Hist. **18**.

Libavius trieolor Ceylon, DISTANT (367) T.c., **sp. n.**

Leptolestes **gen. n.** near *Harpagocoris* (14), *hymenopterus* Java **sp. n.** (15), BERGROTH Entomol. Ztg. Wien **25**.

Lutera funebris Borneo, BERGROTH (310) Wien Verh. zool.-bot. Ges. 1906, **sp. n.**

Lutropsis muscicapa Borneo, BERGROTH (311) T.c., **sp. n.**

Margasus princeps E. Africa, BERGROTH (201) Bruxelles Ann. Soc. ent. Belgique **50, sp. n.**

Mastigonomus erlangeri E. Africa. SCHOUTEDEN (27) Bruxelles Ann. Soc. ent. Belgique **50, sp. n.**

Nabis boops Schiedte, ABOT Angers Bul. soc. étud. sci. **35** 1906 (163-164). — *N. lativentris* eggs and oviposition, CHAPMAN (73, 74) pl. iii Entomologist 1906.

Nesita **gen. n.** (306), *polymorphus* (307), *annulosus* (309), **spp. n.**, Madagascar, BERGROTH Wien Verh. zool.-bot. Ges. 1906.

Oncocephalus annulipes Stål eine Mischart, BERGROTH Entomol. Ztg. Wien **25** (4). — *O. ganadensis* E. Africa, SCHOUTEDEN (20) Bruxelles Ann. Soc. ent. Belgique **50, sp. n.**

Opinus Lap. = (*Sminthocoris* Dist.), KIRKALDY (249) Entomologist 1906; *Opinus* invalid, DISTANT (274) Entomologist 1906.

Orthunga arborea Comoro Ins., BERGROTH (268) Bruxelles Ann. Soc. ent. Belgique **50, sp. n.**

Pangeranga **gen. n.** *Tribelocephalinae* (365), *cinnamomea* **sp. n.** Borneo (366); DISTANT Ann. Mag. Nat. Hist. **18**.

Petalochirus vittiventris E. Africa, BERGROTH (202) Bruxelles Ann. Soc. ent. Belgique **50, sp. n.**

Phonergates bicoloripes a tick destroyer, AUSTEN J. trop. Medicine London **9** (113); WELLMAN T.c. (97).

Physoderes dentiscutum **sp. n.** Neu-guinea, BERGROTH Entomol. Ztg. Wien **25** (16).

Physorrhynchus malabaricus Dist. eine unbestimmbare Larve, BERGROTH (5) T.c.

Pirates (Cleptocoris) tellinii Eritrea, SCHOUTEDEN (14) Bruxelles Ann. Soc. ent. Belgique **50, sp. n.** — *P. abortivus* **sp. n.** Celebes, BREDDIN Halle Abh. natf. Ges. **24** (102).

Ploiariola pygmaea Ceylon, DISTANT (363) Ann. Mag. Nat. Hist. **18, sp. n.** —

P. baerensprungi neu für Russlands, JAKOVLEV St. Petersburg Hor. Soc. Ent. Ross. **37** (220).

Polytorus luridus Madagascar, BERGROTH (268) Bruxelles Ann. Soc. ent. Belgique **50, sp. n.**

Pristhesaneus maculiventris Bredd., Identität mit *Pr. chrysitis* Dist., BERGROTH Entomol. Ztg. Wien **25** (1-12).

Redurinus funebris E. Africa, SCHOUTEDEN (22) Bruxelles Ann. Soc. ent. Belgique **50, sp. n.** — *R. (Opsicoetus) senilis* **sp. n.** Arizona, VAN DUZEE (390) Ent. News **17**.

Rhaphidosoma greeni Ceylon, DISTANT (367) Ann. Mag. Nat. Hist. **18, sp. n.** — *R. trituberculata* Madagascar, BERGROTH (267) Bruxelles Ann. Soc. ent. Belgique **50, sp. n.**

Scipinia bellicosa **sp. n.** Celebes, BREDDIN Halle Abh. natf. Ges. **24** (89).

Serendiba **gen. n.** near *Villanoranus* (368), *pundaluoyae* **sp. n.** Ceylon (369), DISTANT Ann. Mag. Nat. Hist. **18**.

Sminthocoris cf. *Opinus*.

Sphedanolestes pulcher Eritrea, SCHOUTEDEN (15) Bruxelles Ann. Soc. ent. Belgique **50, sp. n.**

Stegius Dist.; unhaltbare Larvengattung, BERGROTH Entomol. Ztg. Wien **25** (5).

Stesichorus **gen. n.** *Acanthaspidinae*, *pilosus* **sp. n.** Ceylon, DISTANT (366) Ann. Mag. Nat. Hist. **18**.

Sycanus galbanus Ceylon, DISTANT (368) T.c., **sp. n.**

Tetroxia blanda Bredd., Identität mit *Acanthaspis escalerae* Var., BERGROTH, Entomol. Ztg. Wien **25** (5).

Tribelocephala oculata Dist., Identität mit *Opisthoplatys oculatus* Bredd., BERGROTH Entomol. Ztg. Wien **25** (4).

Veledella fruhstorferi **sp. n.** Java, BERGROTH Entomol. Ztg. Wien **25** (14).

Ulpus grandituber Madagascar, BERGROTH (266) Bruxelles Ann. Soc. ent. Belgique **50, sp. n.**

(*Acanthaspis variivensis* NOUAILHER, Mission Pavie **3, sp. n.**)

(*Katanga* **gen. n.** *bergrothi*, Zentral-Afrika, (217) **sp. n.**, SCHOUTEDEN, Entomol. Ztg. Wien **22** 1903 (217).)

(*Prostemma siamense* NOUALHIER, Mission Pavie **3**, sp. n.)

(*Spiniger bergi*, paganus, BERGROTH, Rev. ent. Caen **24** 1905 spp. n.)

(*Zelus gradarius* BERGROTH, Rev. ent. Caen **24** 1905 sp. n.)

CIMICIDAE.

Acanthia lectularia phototropisme, BOHN Paris C.-R. soc. biol. **60** (520-524).—*A. pipistrelli* in S. Africa, BOWMILL (246) J. Hygiene **6**.

Cimex lectularius, nec *Klinophilos*, pathogenic literature, GIRAULT Psyche **13** (42-58).

(*Stictonotus* nom. n., für *Stictocoris* Kirk. und *Stictonotus* Stål, KIRKALDY Entomol. Ztg. Wien **24** 1905 (268).)

ANTHOCORIDAE, HENICOCEPHALIDAE,
CERATOCOMBIDAE.

Amphiareus fulvescens (4) f. 3, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Arnulphus aterrimus (3) f. 2, DISTANT T.c.

Arrostelus (subgen. of *Xylocoris*) nom. n. for *Arrostus* Reuter, KIRKALDY (119) Philadelphia Trans. Amer. Ent. Soc. **32**.

Dipsocoridae in place of *Ceratocombidae*, KIRKALDY (375) Canad. Entomol. **38**.

Dufouriellus nom. n. (= *Xyloeoris* auctt.) type *ater* Dufour, KIRKALDY (121) Philadelphia Trans. Amer. Ent. Soc.

Euspudaeus funebris (6) f. 5, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Henicocephalus; Enderlein's genera (Zool. Anz. 1904) invalid; BERGROTH (6) Entomol. Ztg. Wien **25**.—*H. barbatus* Ceylon (323), *aëronauta* Ins. La'nt, *fragrans* Celebes, (324), *bironianus* New Guinea (325), BERGROTH Ann. Hist. nat. Hong. **4**, spp. n.—*H. tuberculatus*, correction, BERGROTH (163) Bruxelles Ann. Soc. ent. Belgique **50**.

Lippomanus hirsutus (5) f. 4, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Odontobrachys niger (7) f. 7, DISTANT T.c.

Ostorodias contubernalis (3) fig. 1, DISTANT T.c.

(N-9720 j)

Pachytarsus crassicornis (9) f. 9, DISTANT T.c.

Sesellius parallelus (7) f. 6, DISTANT T.c.

Triphleps tantillus (8) f. 8, DISTANT T.c.

POLYCTENIDAE.

Eoctenes gen. n. type *Polyctenes spasmae* Wat., KIRKALDY (375) Canad. Entomol. **38**.

Euroctenes gen. n. type *Polyctenes lyrae* Wat., KIRKALDY l.c.

Hesperoctenes gen. n. type *P. fumarius* Westw., KIRKALDY l.c.

Polyctenes lyrae (12) f. 10, DISTANT Faun. Brit. Ind. Rhynchota **3**.

CAPSIDAE, MIRIDAE.

Ausgewählte Kapitel aus O. M. Reuters „Revisio critica Capsinarum“ als Beitrag zur Biologie und Morphologie der Capsiden ins Deutsche übertragen v. Embr[ik] Strand, überarb. v. Th[eodor] Hübner u. J. Gulde. Stuttgart Jahreshefte Ver. Natk. **62** 1906 (263-311).

Synopsis der deutschen Blindwanzen (Hemiptera, heteroptera Fam. *Capsidae*). [ix.] Hübner Stuttgart Jahreshefte Ver. Natk. **62** 1906 (201-262).

Redescription of Stål's *Capsidae*; REUTER Helsingfors Öfvers. F. vet. Soc. **47** No. 12 (1-20).

Reuter's classification of *Miroidea*, tables, etc., KIRKALDY (369-376) Canad. Entomol. **33**.

Allodapus longicornis Aegyptus, REUTER (12) Helsingfors Öfvers. F. vet. Soc. **47** No. 4, sp. n.

Alloeochrus gen. n. near *Deraeocoris*, (5), *rufinervis* sp. n. Cap. B. S. (6), REUTER T.c. No. 21.

Amblytylus lunula neu für Russlands, JAKOVLEV St. Peterburg Hor. Soc. Ent. Ross. **37** (220-246).

Ambrocus capucinus Venezuela, REUTER (30) Helsingfors Öfvers. vet. Soc. **47** No. 19, sp. n.

Aristoreuteria nom. n. for *Episcopus* Reuter, type *ornatus* Rent., KIRKALDY (124) Philadelphia Trans. Amer. Ent. Soc. **32**.

Atomoseelis signaticornis (20), *tomentosus* (21), Aegyptus, REUTER Helsingfors Öfvers. F. vet. Soc. **47** No. 4, **spp. n.**

Brachycranella **gen. n.** for *Capsus viridipunctatus* Stål, REUTER (19) T.c. No. 12.

Callieratides; redescribed, REUTER (4) T.c. No. 5.

Calocorisca aeneoinduta Venezuela, REUTER (19) T.c. No. 19, **sp. n.**

Camptobrochis sinuaticollis Aegyptus, REUTER (9) T.c. No. 4, **sp. n.**—*C. tibialis* Reut. to *Deraeocoris*, REUTER (19) T.c. No. 10.

Campylomma angustula Aegyptus, REUTER (22) T.c. No. 4, **sp. n.**

Ceratocapsus pilosus Venezuela, REUTER (34) T.c. No. 19, **sp. n.**

Charitocoris sanguineonotatus Somalis, REUTER (7) T.c. No. 10, **sp. n.**—*C. rufoplagiatus* Cap. B. S., REUTER (3) T.c. No. 21, **sp. n.**

Chorosomella **gen. n.** near *Teratocoris*, *jakowleffi* **sp. n.** Crimée, HORVÁTH Ann. Hist.-Nat. Hung. **4** (545-546).

Creontiades vittipennis Australia bor. (3), *virescens* Sydney (4), REUTER Helsingfors Öfvers. F. vet. Soc. **47** No. 20, **spp. n.**

Cyphodema perdis Asia minor, HORVÁTH (185) Wien Ann. Nat. Hist. Hofmus. **20**, **sp. n.**

Cyrtocapsidea **gen. n.** near *Charagochilus* (25), *nebulosa* Venezuela **sp. n.** (26), REUTER Helsingfors Öfvers. F. vet. Soc. **47** No. 19.

Cyrtorrhinus melanops Caffraria, REUTER T.c. No. 21, **sp. n.**

Deimatostages **gen. n.** (29), *contumax* **sp. n.** Westafrika (31), KUHNGATZ Zool. Anz. **30**.

Deraeocoris pallidipennis Abessinien, REUTER (20) Helsingfors Öfvers. F. vet. Soc. **47** No. 10, **sp. n.**—*D. australicus* Cape York, REUTER (7) T.c. No. 20, **sp. n.**

Dicyphus montandoni, neu für Russland, JAKOVLEV St. Petersburg Hor. Soc. Ent. Ross. **37** (220-246).

Dirhopalia **gen. n.** for *Leptomerocoris antennata* Walk., REUTER (9) Helsingfors Öfvers. F. vet. Soc. **47** No. 5.

Euryceipitia **gen. n.** *Bryocoraria* (3), for *Ecritotarsus splendens* Dist., *distanti* Venezuela **sp. n.** (4), REUTER T.c. No. 19.

Eurgeranella **gen. n.**, *Tuponiæ* aff. (25), *geocoriceps* **sp. n.** Aegyptus (26), REUTER T.c. No. 4.

Falconiodes **gen. n.** near *Cyllocoris* (32), *concolor* **sp. n.** Venezuela (34), REUTER T.c. No. 19.

Grypocoris melanopygus Asia minor, HORVÁTH (184) Wien Ann. Nat. Hist. Hofmus. **20**, **sp. n.**

Hadrophyes sulphurella neu für Russland, JAKOVLEV St. Petersburg Hor. Soc. Ent. Ross. **37** (220-246).

Helopeltis alluaudi Assinien, REUTER (1) Helsingfors Öfvers. F. vet. Soc. **47** No. 10, **sp. n.**—*H. schoutedeni* Congo, REUTER (112) Ent. Mag. London **42**, **sp. n.**

Heterocordylus flaviceps, metamorphosis (Japanese), NITOE Konch. Sek. Gifu **10** 1906 (19-22).

Histriocoris **gen. n.** for *Capsus incomparabilis* Stål, REUTER (15) Helsingfors Öfvers. F. vet. Soc. **47** No. 12.

Lopus, *Hoplomachus* and *Capsodes*, Synonymie, REUTER Entomol. Ztg. Wien **25** (216).

Hyaloseytus **gen. n.** *Monalonionaria* (1), *elegantulus* **sp. n.** Victoria (2), REUTER Helsingfors Öfvers. F. vet. Soc. **47** No. 5.

Indoelium **gen. n.** for *Megacoelum* div. b. Distant, type *rubricatum* Distant, KIRKALDY (138) Philadelphia Trans. Amer. Ent. Soc. **32**.

Leptidolon **gen. n.** (14), *vittipenne* Victoria **sp. n.** (15), REUTER Helsingfors Öfvers. F. vet. Soc. **47** No. 5.

Leptoxanthus **gen. n.** *Plagiognatharia* (7), *flaveolus* Svacop **sp. n.** (8), REUTER T.c. No. 21.

Linocerocoris Karsch and *L. carini-ventris* redescribed, REUTER (8) T.c. No. 10.

Lygus schoutedeni Abessinien (12), *alluaudi* Assinien (13), REUTER T.c. No. 10, **spp. n.**

Macrotylus antennalis Asia minor, HORVÁTH (186) Wien Ann. Nat. Hist. Hofmus. **20**, **sp. n.**

Megacoelum longicolle Sierra Leone, REUTER (2) Helsingfors Öfvers. F. vet.

Soc. 47 No. 21, **sp. n.**—*M. sordidum* Aegyptus, REUTER (7) T.c. No. 4, **sp. n.**—*M. schoutedeni* Townsville, REUTER (10) T.c., **sp. n.**

Mimoneopeltus **nom. n.** for *Lygdus*, KIRKALDY (374) Canad. Entomol. 1906.

Mimoperideris (subgen. of *Cyllocoris*) **nom. n.** = *Perideris* Fieber, type *marginatus* Fieber, KIRKALDY (129) Philadelphia Trans. Amer. Ent. Soc. 32.

Monalocorisca chrysodasia (8), *nebulosa* (9), Venezuela, REUTER Helsingfors Öfvers. F. vet. Soc. 47 No. 19, **spp. n.**

Neostenotus **gen. n.** (21), *bipunctatus* **sp. n.** (22), REUTER T.c. No. 19.

Niastama **gen. n.** *Capsaria* (11), *punctaticollis* Tasmania **sp. n.** (12), REUTER T.c. No. 5.

Nytella **gen. n.** *Plagiognatharia* (35), *nocrens* **sp. n.** Venezuela (36), REUTER T.c. No. 19.

Odonicella rubra Assinia, REUTER (2) T.c. No. 10, **sp. n.**

Orthotylus spartiicola Syria, REUTER (16) T.c. No. 4, **sp. n.**—*O. roscipennis* Australia bor., REUTER (8) T.c. No. 20, **sp. n.**

Oracicoris **gen. n.** near *Calocoris*, (5), *bimaculicollis* Erythraea **sp. n.** (6), REUTER T.c. No. 10.

Pameridea **gen. n.** (724), *roridulac* **sp. n.** Kapland (725); REUTER Zool. Anz. 30.

Pantiliodes tellinii Abessinia, REUTER (3) Helsingfors Öfvers. F. vet. Soc. 47 No. 10, **sp. n.**

Paralygus **gen. n.** type *Horecias plumatus* Dist. (4), *signatiscutis* (5), *simplex* (6), **spp. n.**, Sydney, REUTER T.c. No. 20.

Parantias **gen. n.** *Dicypharia* (30), *tenuicornis* **sp. n.** Venezuela (32), REUTER T.c. No. 19.

Phytocoris extensus Asia minor (1), *bivittatus* Graccia (2), *albipennis* Palaestina (3), REUTER T.c. No. 4, **spp. n.**—*P. dolichopterus* Cap. B.S., REUTER (1) T.c. No. 21, **sp. n.**

Platycapsus **gen. n.** near *Deraeocoris* (11), *acaciae* **sp. n.** Aegyptus (12), REUTER T.c. No. 4.

Pleurochilophorus **gen. n.** near *Mega-coelus* (3), *quadripunctatus* **sp. n.** (N-9720 j)

Erythraea (4), REUTER T.c. No. 10. —*Pleurochilophorus* **gen. n.** (Reuter), *quadripunctatus* **sp. n.** Reuter, SCHOUTEDEN (16) Bruxelles Ann. Soc. ent. Belgique 50.

Porphyrodema **gen. n.** *Capsaria*, *flavolineatum* **sp. n.** Queensland, REUTER (3) Helsingfors Öfvers. F. vet. Soc. 47 No. 5.

Poecilosecytus longirostris Massauah, REUTER (14) T.c. No. 10, **sp. n.**

Poecilocapsus sexmaculatus **sp. n.** Texas, BARBER (280) Brooklyn Mus. Bull. 1.

Prepops **subg. n.** vide *Resthenia*.

Probosciodocoris punctaticollis Erythraea (16), *debilis* Takal (17), *ferrugineus* Assinia (18), REUTER Helsingfors Öfvers. F. vet. Soc. 47 No. 10, **spp. n.**

Psallus brachyecerus Asia minor, REUTER (18) Helsingfors Öfvers. F. vet. Soc. 47 No. 4, **sp. n.**—*P. erimius* Victoria, REUTER (12) T.c., **sp. n.**

Pseudopantilius **gen. n.** for *Lopus australis* Wälk., REUTER T.c. No. 5.

Pycnoderes (*Arsinotus*) *albicornis* Venezuela, REUTER (5) T.c. No. 19, **sp. n.**

Resthenia meinerti (12), *suturalis* (13), *nannae* (14), *R. (Prepops subg. n.)* (15), Venezuela, REUTER T.c. No. 19, **spp. n.**

Romna **nom. n.** for *Morna* White, type *capsoides* White, KIRKALDY (141) Philadelphia Trans. Amer. Ent. Soc. 32.

Schistonotellus **nom. n.** for *Schizonotus* Reut., REUTER (32) Helsingfors Öfvers. F. vet. Soc. 47 No. 19.

Sidnia **gen. n.** for *Capsus kinbergi* Stål, REUTER (3) T.c. No. 12.—*S. distinctus* (10), *longipennis* (11), Abessinia, REUTER T.c. No. 10, **spp. n.**

Stenotus fasciaticollis Sierra Leone, REUTER (4) T.c. No. 21, **sp. n.**

Sthenarus pollinosus Asia minor, HORVÁTH (186) Wien Ann. Nat. Hist. Hofmus. 20, **sp. n.**—*S. quercicola* Asia minor, REUTER (23) Helsingfors Öfvers. F. vet. Soc. 47 No. 4 **sp. n.**—*S. leucochilus* Bourbon, REUTER (8) T.c. No. 21, **sp. n.**—*S. australis* Victoria, REUTER (13) T.c. No. 5, **sp. n.**—*S. apicalis* (36), *antennalis* (37), *clavicornis* (38), Venezuela, REUTER T.c. No. 19, **spp. n.**

Systellonotus motelayi Bordeaux, LAMBERTIE (27) Bordeaux Actes Soc. linn. **61**, sp. n.—*S. triguttatus*, relations with *Lasius niger*, MJÖBERG Zs. wiss. Insektenbiol. **2** (107–109).

Trichophorella gen. n. *Pilophoraria* (20), *sordidipennis* sp. n. Abessinia (21), REUTER Helsingfors Öfers. F. vet. Soc. **47** No. 10.

Tuponia brevirostris neu für Russland, JAKOVLEV St. Petersburg Hor. Soc. Ent. Ross. **37** (220–246).

Utopnia torquata ♀, REUTER (20) Helsingfors Öfers. F. vet. Soc. **47** No. 4.

Xestonotellus gen. n. *Capsaria* (1), *perversus* sp. n. Australia bor. (2), REUTER T.c. No. 20.

(*Chlamydatus longirostris* France, REUTER, Paris, Bul. soc. ent., **1905**, (8–9), sp. n.)

(*Lopistus* nom. n. für *Lopus* Spinola nec Huhn, KIRKALDY, Entomol. Ztg. Wien **24** 1905 (268).)

(*Pseudoloxops* nom. n. für *Loxops* Fieber, KIRKALDY, Entomol. Ztg. Wien **24** 1905 (268).)

(*Reuteroscopus* nom. n. für *Episcopus* Reuter KIRKALDY, Entomol. Ztg. Wien **24** 1905 (268).)

(*Strongylocoris obscurus oberthuri* var. n. REUTER, Paris Bul. soc. ent. **1905**.)

SALDIDAE.

Godefridus Dist., Zugehörigkeit zu *Velocipeda*, BERGROTH Entomol. Ztg. Wien **25** (8).

Halorelia amphibia sp. n. Sansibar, BERGROTH T.c. (7).

Leptopus marmoratus neu für Russlands, JAKOVLEV St. Petersburg Hor. Soc. Ent. Ross. **37** (220–246).

Salda bergi Hagl., Identität mit *S. argentina* Bergr., BERGROTH Entomol. Ztg. Wien **25** (7).

Valleriola Dist., Identität mit *Leptopus* Latr., BERGROTH T.c. (8).—*Vallerolia* Dist. = (*Leptopus* Bergr. nec Latr.), DISTANT (293) Ann. Mag. Nat. Hist. **18**.

(*Velocipeda minor* Java, BREDDIN, Entomol. Ztg. Wien **22** 1903 (248), sp. n.)

HYDROCORISAE.

Nepidae, *Gerridae* and *Nacogedidae*, catalogue of genera and their types; KIRKALDY Philadelphia Pa. Trans. Amer. ent. Soc. **32** (153–156).

British Waterbugs, annotated list, notes on habits, KIRKALDY Entomologist 1906 (60 etc.).

Cryptocerate Hemiptera of America, list; BUENO Washington D.C. Proc. Ent. Soc. **8** (45–58).

Ways of progression in water bugs, BUENO Ent. News **17** (1–4)

13 new species of hemipterous water insects, described and figured; MATSUMURA Sapporo Journal of Sapporo Agricultural College **2** 1905 (53–65) pl.

Anisops breddini Kirkaldy sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. **24** (103).—*A. fieberi* nom. n. Kirkaldy für *nivea* Fieb., BREDDIN Halle Abh. natf. Ges. **24** (103).—*A. sardea* (45) f. 27, Distant Faun. Brit. Ind. Rhynchota **3**.—*Anisops kirkaldyanus* nom. n. für *edepol* Kirk., BERGROTH Entomol. Ztg. Wien **25** (12).

Belostoma fluminea, life-history, BUENO (189–197) Canad. Entomol. **38**.—*B. indicum* (38) f. 24, Distant Faun. Brit. Ind. Rhynchota **3**.

Cercotmetus fumosus (23) f. 15, Distant T.c.

Cheirochela feana (26) f. 16, Distant T.c.

Corixa; copula and oviposition; HEWITT (89, 90) London Trans. ent. Soc. 1906.—*C. hieroglyphica* (49) f. 29, Distant Faun. Brit. Ind. Rhynchota **3**.—†*C. florissantella* Colorado, COCKERELL (209) Canad. Entomol. **38**, sp. n.

Ctenipocoris asiaticus (32) f. 20, Distant Faun. Brit. Ind. Rhynchota **3**.

Diaphorocoris punctatissimus (28) f. 18, Distant T.c.

Enithares indiea (42) f. 26, Distant T.c.

Gestrorella limnocoroides (27) f. 17, Distant T.c.

Heleocoris, the type; *H. strabus* (29) f. 19, Distant T.c.

Laccotrephes robustus (18) f. 13, Distant T.c.

†*Mesocorixa* **gen. n.** for *Silpha tenuilythris* Weyenb., HANDLIRSCH (639) Fossil. Ins.

†*Mesonepa* **gen. n.** for *Nepa primordialis* Germ. and *minor* **sp. n.** Bayern Kalk, HANDLIRSCH (637) T.c.

Mieronecta striata (50) f. 30, DISTANT Faun. Brit. Ind. Rhynchota 3.

Mononyx serratus (15) f. 12, DISTANT T.c.

Nectocoris stali (35) f. 22, DISTANT T.c.

Nepa cinerea, copula, HEWITT (87–89) ent. London Trans. ent. Soc. 1906.

Notonecta montandoni (41) f. 25, DISTANT Faun. Brit. Ind. Rhynchota 3.

†*Notonectites* **gen. n.** for *Notonecta elterleini* Deichm., HANDLIRSCH (639) Fossil. ins.

Pelagonus marginatus (14) f. 10, DISTANT Faun. Brit. Ind. Rhynchota 3.

Plea minutissima (= *leachi* Kirk.), *liturata* f. 28, (47), *palleseens* Calcutta **sp. n.** (48); DISTANT T.c.

Ranatra quadridentata life-history, BUENO (242–252) Canad. Entomol. 38.—*R. clongata* (20) f. 14, DISTANT Faun. Brit. Ind. Rhynchota 3.

Sphaerodema rustieum (36) f. 23, DISTANT T.c.

Thursellinus greeni (33) f. 21, DISTANT T.c.

(*Mieronecta annae*, *erato*, *memonides*, *thelxines*, *randuzeei*, Philippines, Ceylon, and Australia, KIRKALDY, G. W. Ent. News, Philadelphia, Pa., 16, 1905, (260–263), n. spp.)

INCERTAE SEDIS. Fossil *Heteroptera*.

The following new *Heteroptera* are described by HANDLIRSCH from the Lias.

†*Archegocimex* **gen. n.** *Archegocimicidae* fam. n. near *Pentatomidae*, *geinitzi* **sp. n.** Lias Mecklenburg, (493) Fossil. Ins.

†*Aphlebocoris* **gen. n.** *Aphlebocoridae* fam. n. for *Pachymeridium dubium* Gein., (495) T.c.

†*Eocimex* **gen. n.** *Eocimicidae* fam. n., *liasinus* **sp. n.** Lias Mecklenburg, (494) T.c.

†*Pachymeridiidae* fam. n. for *Pachymeridium dubium* Gein., (495) T.c.

†*Progonocimex* **gen. n.** *Progonocimicidae* fam. n., *jurassicus* **sp. n.** Lias Mecklenburg, (494) T.c.

†*Protoecoridae* fam. n. for *Protoecoris* Heer, (495) T.c.

The following are from Jurassic strata.

†*Copidopus* **gen. n.** *jurassicus* **sp. n.** Bayern Kalk, HANDLIRSCH (635) Fossil. ins.

†*Anacloptera* **gen. n.** for *Cercopidium trigonale* Gieb., (640) T.c.

†*Dimeropterum* **gen. n.**, *westwoodi* **sp. n.** Purbeck England, (636) T.c.

†*Seylacoris* **gen. n.** for *Lygaeites furcatus* Gieb., (636) T.c.

Homoptera.

Verzeichnis der palaearctischen Hemipteren mit besonderer Berücksichtigung ihrer Vertheilung im Russischen Reiche. II. Band. Homoptera. 1. Lief. OSHANIN St. Peterburg Ann. Mus. Zool. Ac. Sc. 11 1906 Beilage (1–192).

CICADIDAE.

Catalogue of the *Cicadidae* of the world, with synopses of the subfamilies and genera, DISTANT, 10.

Cicadidae of British India, classification and terms; DISTANT (55–57) Faun. Brit. Rhynchota 3.

Cicadidae of Transvaal, DISTANT (168–180) pl. xvii Ins. transvaal.

Abroma maculicollis (165) f. 73, *bengalensis* **sp. n.** India (165), DISTANT Faun. Brit. Ind. Rhynchota 3.

Angamiana aethera (73) f. 37, DISTANT T.c.

Aola lindusara (116) f. 50, DISTANT T.c.

Balanta octonotata (149) f. 65, DISTANT T.c.

Basa singularis (144) f. 63, DISTANT T.c.

Birrima **gen. n.** *Melampsaltaria*, *montrouzieri* **sp. n.** New S. Wales, DISTANT (388) Ann. Mag. Nat. Hist. 17.

Burbunga hillieri S. Australia, DISTANT (154) Bruxelles Ann. Soc. ent. Belgique 50, **sp. n.**

Calcagninus picturatus (137) f. 59, DISTANT Faun. Brit. Ind. Rhynchota 3.

Callipsaltria longula pl. xvi f. 1, *elongata* f. 6, DISTANT (178) Ins. transvaal.

Carineta cearana Brazil, DISTANT (153) Bruxelles Ann. Soc. ent. Belgique 50, sp. n.

Cicada tibicen, *pruinosa*, *canicularis*, distinguished, DAVIS and JOUTEL, Ent. News 17 (237-239).—*C. erratica* (497), *delicata* (498), Louisiana, OSBORN Ohio Nat. 6, spp. n.—*C. tibicen* and allies, *C. fulvula* sp. n. N. America, OSBORN (322) Ent. News 17.—*C. erratica*, NEWELL Washington Bull. U.S. Dept. Agric. Bur. Ent. No. 60 (52-58).—*C. toradja* sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. 24 (109).

Cicadatra sankana (133) f. 57, DISTANT Faun. Brit. Ind. Rhynchota 3.—*C. raja* N. W. India, DISTANT (184) Ann. Mag. Nat. Hist. ser. 7 17, sp. n.

Coata gen. n. *Tettigadesaria* (30), *facialis* sp. n. Ecuador (31); DISTANT Op. cit. 18.

Collina obesa (hab ?), DISTANT (384) Op. cit. 17, sp. n.

Cosmopsaltria vomerigera, *multisignata*, *ornaticeps*, spp. n., Celebes, BREDDIN Halle Abh. natf. Ges. 24 (105-107).—*C. oopaga* (97) f. 45, DISTANT Faun. Brit. Ind. Rhynchota 3.

Cryptotympana corrus (81) f. 41, DISTANT T.c.—*C. suluensis* Sulu Arch., DISTANT (148) Bruxelles Ann. Soc. ent. Belgique 50, sp. n.

Cyclochila virens Queensland, DISTANT (148) Entomologist 1906, sp. n.

Dokuma consobrina Philippines, DISTANT (182) Ann. Mag. Nat. Hist. 17, sp. n.

Drepanopsaltria gen. n., BREDDIN Halle Abh. natf. Ges. 24 (113).

Dundubia mannifera (95) f. 44, DISTANT Faun. Brit. Ind. Rhynchota 3.

Emathia aegrola (124) f. 54, DISTANT T.c.

Gacana maculata var. *consors* (145) f. 64, DISTANT T.c.

Gazuma pretoriae pl. xvi f. 4, DISTANT (179) Ins. transvaal.

Gudaba gen. n. (138) for *Calcagninus marginatus* Dist. (139) f. 60, DISTANT Faun. Brit. Ind. Rhynchota 3.—*G. apicata* Cochín China, DISTANT (149) Bruxelles Ann. Soc. ent. Belgique 50, sp. n.—*Graptotettix guttatus* (156) f. 68, DISTANT Faun. Brit. Ind. Rhynchota 3.

†*Griphologus* gen. n. of doubtful position, but not *Cicadidae* for *Cicada lowei* Etheridge & Olliff, HANDLIRSCH (105) Fossil. Ins.

Haphsa meeki New Guinea, DISTANT (149) Bruxelles Ann. Soc. ent. Belgique 50, sp. n.—*H. nicomacke* (99) f. 46, DISTANT Faun. Brit. Ind. Rhynchota 3.

Hea gen. n. *Tibiceninae* (121), *fasciata* sp. n. China (122) with fig.; DISTANT Entomologist 1906.

Huechys sanguinea (157) f. 69, DISTANT Faun. Brit. Ind. Rhynchota 3.—*H. eos* sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. 24 (111).

Karenia ravidia (161) f. 71, DISTANT Faun. Brit. Ind. Rhynchota 3.

Khimbya evanescens (140) f. 61, DISTANT T.c.

Kobonga gen. n. type *Cicada umbri-margo* Walk., DISTANT (387) Ann. Mag. Nat. Hist. 17.

Kumanga sandaracata (170) f. 77, DISTANT Faun. Brit. Ind. Rhynchota 3.

Lahmgada dohertyi (121) f. 53, DISTANT T.c.

Leptopsaltria tuberosa (90) f. 42, DISTANT T.c.—*L. celebensis* sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. 24 (103).

Lemuriana sirius (175) f. 2, DISTANT Ins. transvaal.—*L. apicalis* (167) f. 74, DISTANT Faun. Brit. Ind. Rhynchota 3.

Lethama locusta (142) f. 62, DISTANT T.c.

†*Lithocicada* gen. n., *perita* sp. n. Florissant, COCKERELL (457), New York Bull. Amer. Mus. Nat. Hist. 22.

Majeoroma lutea Brazil?, DISTANT (185) Ann. Mag. Nat. Hist. 17, sp. n.

Mapondera pulchella pl. xvi f. 20, DISTANT (178) Ins. transvaal.

Mata gen. n. (119), for *Pomponia kama* (120) f. 52, DISTANT Faun. Brit. Ind. Rhynchota 3.

Meimuna tripurasura (107) f. 48, DISTANT T.c.

Melampsalta germaini New Caledonia, DISTANT (387) Ann. Mag. Nat. Hist. **17**, sp. n.—*M. continuata* f. 78, *literata* f. 79, (173), DISTANT Faun. Brit. Ind. Rhynchota **3**.—*M. leucoptera* pl. xvi f. 22, DISTANT (179) Ins. transvaal.

Mendoza gen. n. near *Chonosia* (152), *platypleura* sp. n. Argentina (153), DISTANT Bruxelles Ann. Soc. ent. Belgique **50**.

Mogannia videntata Borneo, DISTANT (152) T.c., sp. n.—*M. effecta* (153) f. 67, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Munza furva pl. xvii f. 2, *basimacula* f. 3, DISTANT (171) Ins. transvaal.

Odopoea renturii Argentina, DISTANT (151) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Oncotympana obnubila (118) f. 51, DISTANT Faun. Brit. Ind. Rhynchota **3**.—*O. mahoni* N. W. India, DISTANT (183) Ann. Mag. Nat. Hist. **17**, sp. n.

Paharia lacteipennis (163) f. 72, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Panka simulata (168) f. 75, DISTANT T.c.

Pantropsalta exequata (171) f. 80, DISTANT T.c.

Platylomia umbrata (104) f. 47, DISTANT T.c.

Platypleura polita (61) f. 33, *watsoni* (63) f. 34, *nobilis* (69) f. 35, DISTANT T.c.—*P. quadraticollis* pl. xvii f. 9, *brevis* f. 4, *marshalli* f. 7, *stridula* var. *capensis* f. 8, (172), *murchisoni* f. 14, *hirta* f. 10, *divisa* f. 13, *haglundii* f. 6, (173), *deusta* f. 11 (174), DISTANT Ins. transvaal.

Polynœura ducalis (74) f. 38, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Pomponia intermedia (113) f. 49, DISTANT T.c.

Proarna inconspicua Argentina, DISTANT (150) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.

Purana tigrina (92) f. 43, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Pycna semielara (174) pl. xvii f. 5, *sylvia* (175) f. 12, DISTANT Ins. transvaal.—*P. repanda* (72) f. 36, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Quintilia subritta (169) f. 76, DISTANT T.c.—*Q. carinata* (175) pl. xvi f. 23, *maculiventris* (176) f. 24, DISTANT Ins. transvaal.

Rihana opereulissima Mexico, *digneti* Lower California, DISTANT (156) Ann. Mag. Nat. Hist. **17**, spp. n.

Rustia dentiritta (125) f. 55, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Sawda? vitiensis Fiji, DISTANT (12) Entomologist London **29**, sp. n.

Scieroptera splendidula (159) f. 70, DISTANT Faun. Brit. Ind. Rhynchot. **3**.—*S. sarasinorum* sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. **24** (112)

Sena querula (137) f. 58, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Stagira viridula pl. xvi f. 21, DISTANT (178) Ins. transvaal.

Talainga binghami (151) f. 66, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Taipinga nigricans pl. xvi f. 5, *conso-brina* f. 19, *fuscata* f. 3, DISTANT (177) Ins. transvaal.—*T. fuscata*, *consobrina*, Transvaal, DISTANT (386) Ann. Mag. Nat. Hist. **17**, spp. n.

Tanna insignis Java (157), *pallida* Borneo (158); DISTANT T.c., spp. n.

Terpnosia psecas (126) f. 56, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Tettigades varivirensa Argentina, DISTANT (152) Bruxelles Ann. Soc. ent. Belgique **50**, sp. n.—*T. ulnaria* Chili, DISTANT (64) Entomologist London 1906, sp. n.—*T. lebruni* Patagonia, DISTANT (385) Ann. Mag. Nat. Hist. **17**, sp. n.

Tibicen septendecim, MARLATT Washington D.C. Circ. U. S. Dept. Agric. Bur. Ent. No. **74** 1906 (1-5).

Tosena mearesiana (75) f. 39, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Ucana maculata New Caledonia, DISTANT (385) Ann. Mag. Nat. Hist. **17**, sp. n.

Zouga gen. n. near *Psilotympana*, *typica* sp. n. Transvaal pl. xvi f. 18, DISTANT (176) Ins. transvaal.

(*Cicada townsendii* Arizona and New Mexico UHLER, Ent. News **16** 1905 (74-77, sp. n.)

(*Dundubia spiculata* NOUALHIER, Mission Pavie **3**, sp. n.)

(*Gueana pariei* NOUALHIER, T.c.)

(*Mogannia saucia* NOUALHIER, T.c. sp. n.)

(*Platypleura arminops* NOUALHIER, T.c. sp. n.)

FULGORIDAE.

Monograph of *Issides*; MELICHAR
Wien Abh. Zool. Bot. Ges. **3** Heft 4
(1-327) 75 figs.

Leaf-hoppers and their natural
enemies, PERKINS Honolulu exp. Stat.
Bull. **1** (i-xxxii).

Leaf-hoppers and their natural
enemies. Pt. 9. KIRKALDY Honolulu
Exp. Stat. Bull. **1** 1906 (269-479)
plates xxi-xxxiii.

Aemonia fiebrigi. Paraguay, *crowleyi*
Brazil; DISTANT (201) Ann. Mag. Nat.
Hist. **18**, spp. n.

Acerisus muscarius Germ. (as *Issus*)
(= *Cadrela nigronervosa* Sign.) (223);
A. fasciatus Brasilien (224), *inornatus*
Peru (225), spp. n.; MELICHAR Wien
Abh. Zool. Bot. Ges. **3** Heft 4.

Aerometopus subfasciatus Dahomey,
semiglobularis Delagoa-Bai, spp. n.,
MELICHAR T.c. (239).

Alaruasa gen. n. type *Poioecera lepida*
Spin., DISTANT (199) Ann. Mag. Nat.
Hist. **18**.

Alcathous facialis (197) f. 85, DIS-
TANT Faun. Brit. Ind. Rhynchota **3**.

Alphina fryi Brazil, DISTANT (194)
Ann. Mag. Nat. Hist. **18**, sp. n.

Aluntia ramosa (241) f. 105, DIS-
TANT Faun. Brit. Ind. Rhynchota **3**.

Annisa verticalis Brazil, MELICHAR
(257) Wien Abh. Zool. bot. Ges. **3** Heft
4, sp. n.

Anaya gen. n. type *Flatoides meso-
chlora* Walk. fig. 239 (447); *spectra*
sp. n. Andaman islands (448); DISTANT
Faun. Brit. Ind. Rhynchota **3**.

Ancyra appendiculata (225) f. 91
DISTANT T.c.

Anephora torrida Walk. (as *Aphaena*)
= (*oliracea* Schmidt); DISTANT (192);
Ann. Mag. Nat. Hist. **18**.

Aneipo gen. n. *Achilidae*, *diva* sp. n.
Queensland, KIRKALDY (325) Honolulu
Exp. Stat. Bull. **1**.

Anggira gen. n. *Phromniaria*, *typica*
sp. n. South India fig. 207, DISTANT
(403) Faun. Brit. Ind. Rhynchota **3**.

Anila gen. n. *Cixiinae*, (260), *culi-
ginosa* sp. n. Burma (261); DISTANT
T.c.

Aphaena tullia sp. n. Celebes,
BREDDIN Halle Abh. natf. Ges. **24**
(133).

Aphana atomaria (203) f. 88, DISTANT
Faun. Brit. Ind. Rhynchota **3**.

Aphanophantia gen. n. near *Gyaria*
(458), *cuscuticida* sp. n. Sydney (459),
KIRKALDY Honolulu Exp. Stat. Bull. **1**.

Aphanophrys cf. *Varcia*.

Aphelonema simplex Uhler, Umände-
rung in *Peltonotellus*, MELICHAR Wien
Abh. Zool. Bot. Ges. **3** Heft 4 (3f).

Aphrodisias nom. n. for *Comptosia*
Stål, KIRKALDY (248) Entomologist 1906.

Argelensa gen. n. near *Francesca*,
kurandae sp. n. Queensland, KIRKALDY
(423) Honolulu Exp. Stat. Bull. **1**.

Aristyllis gen. n. *Achilidae* (418),
aristyllis, *omphale*, (419), *adippe* (420),
spp. n., Queensland, KIRKALDY T.c.

Aspidonitys bipunctata (200), *taeniata*
(202), Kongo, spp. n., SCHMIDT Stettiner
ent. Ztg. **67**.—*A. admirabilis* Brit. E.
Africa, DISTANT (205) Ann. Nat. Hist. **18**,
sp. n.

Astorga gen. n. *Dictyophorinae*, *sac-
charicida* sp. n. Queensland, KIRKALDY
(395) Honolulu Exp. Stat. Bull. **1**.

Astracis indica (450) f. 240, *emer-
soniana* (= *latifasciata* Mel.) (452) f. 241,
perplexa (455) f. 244, *fimbria* (457)
f. 247; *consanguinea* Ceylon (453)
f. 242, *moelleri* (454) f. 243, *himalayana*
(455), North India, *insularis* Andaman
islands (458), spp. n.; DISTANT Faun.
Brit. Ind. Rhynchota **3**.

Augila binghami Tenasserim, DISTANT
336) f. 168 T.c., sp. n.

Barma gen. n. *Cixiinae*, *diversa* sp. n.
Tenasserim f. 121; including also *Cixius*
finitus Walk.; DISTANT (266) T.c.

Baruna gen. n. (283), *albosignata*
sp. n. (284) f. 133, DISTANT T.c.

Basileocephalus gen. n. *Derbidae*,
thaumatonotus sp. n. Queensland,
KIRKALDY (429) Honolulu Exp. Stat.
Bull. **1**.

Benella gen. n. *Achilidae*, *aliena*
sp. n. Sydney, KIRKALDY (420) T.c.

Bergiella gen. n. (40), *nigra* Buenos
Aires sp. n. (41), MELICHAR Wien Abh.
Zool. Bot. Ges. **3** Heft 4.

Bisma **gen. n.** *Lophopinae* (322), *greeni* **sp. n.** Ceylon (323) f. 158; DISTANT Faun. Brit. Ind. Rhynchota **3**.

Boehana **gen. n.** type *Phalaenomorpha parva* Kirby, fig. 251 (463), *nebulosa* **sp. n.** Ceylon (464) f. 252; DISTANT T.c.

Brachyiceps **nom. n.** for *Brachycephalus* Sign., KIRKALDY (248) Entomologist 1906.

Brahmaloka **gen. n.** *Issinae*, *bowringi* **sp. n.** Assam fig. 170, DISTANT (337) Faun. Brit. Ind. Rhynchota **3**.

Brixia tortriciformis f. 124; *albo-maculata* (271), *flavomaculata* (272), **spp. n.**, India, DISTANT T.c.

Brixioides carinatus (328) f. 162, DISTANT T.c.

Bruchomorpha globosa Nordamerika, *suturalis* Colorado and Texas, **spp. n.**, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (24).

Bruchoseelis **gen. n.** für *Caliseelis peculiaris* Horv.; MELICHAR T.c. (26).

Bythopsyrna circulata (412) f. 213, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Calamister **gen. n.** *Cixiinae* (402), *obscurus* **sp. n.** Queensland (403), KIRKALDY Honolulu Exp. Stat. Bull. **1**.

Caliseelis eximia (324) f. 167, DISTANT Faun. Brit. Ind. Rhynchota **3**.—*C. chinensis* **sp. n.** China, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (16).

Calypptoproetus confusus Guatemala (195), *coloratus* (196), *fuscipennis* (197), Ecuador; DISTANT Ann. Mag. Nat. Hist. **18**, **spp. n.**

Capelopterum **gen. n.** *bimaculatum* Neu Guinea (212), *dohrni* Soekaranda (211), *punctatellum* Salomons-Inseln (212), *torpidum* Balabac (213), **spp. n.**, und *Hysteropterum informe*, *sellatum* und *spissum*, MELICHAR Wien Abh. ZoolBot. Ges. **3**, Heft 4.

Carolus **gen. n.** near *Cixius crispus* **sp. n.** Sydney, KIRKALDY (401) Honolulu Exp. Stat. Bull. **1**.

Cathedra Kirk. = (*Pristiopsis* Schmidt), KIRKALDY (155) Canad. Ent. **38**; *Cathedra* Kirk. = (*Pristiopsis* Schmidt), DISTANT (20) Ann. Mag. Nat. Hist. **18**.

Centromeria speilinea (250) f. 110; *cephalica* Nilgiri hills (251), *simulata* Assam (252), **spp. n.**; DISTANT Faun. Brit. Ind. Rhynchota **3**.

Cerynia maria (409) f. 210, DISTANT T.c.

Chaturbuja **gen. n.** (405) type *Poeciloptera comma* Walk. (406) f. 209; DISTANT T.c.

† *Cixiites* **gen. n.** (498), *liasinus* **sp. n.** Lias Mecklenburg (499), HANDLIRSCH Fossil. Ins.

† *Cixioides* **gen. n.** for *Cixia maculata* Gieb., HANDLIRSCH (640) T.c.

Cixius pilifer (260) f. 115, DISTANT Faun. Brit. Ind. Rhynchota **3**.—*C. flavisigna* Walk. cf. *Magadha*.—*C. dotatus* cf. *Mundopa*; *C. finitus* cf. *Barma*.

Cladypha boliviana S. America, DISTANT (349) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Colobesthes falcata (424) f. 222, DISTANT Faun. Brit. Ind. Rhynchota **3**, *C. marginata* cf. *Daksha*.

Compsoptera cf. *Aphrodisias*.

Conosimus angustipennis **sp. n.** Argentinien, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (109).

Copidocephala St. = (*Coanaco* Dist.), KIRKALDY (248), Entomologist 1906.—*C. (Coanaco* Dist.); *C. merula* Colombia **sp. n.**; DISTANT (23) Ann. Mag. Nat. Hist. **18**.

Copsyrna = (*Paramelicharia* Kirk.) (409), *maculata* (410) f. 211, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Corethrura fuscovaria (322) f. 157, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Cryptoflata guttularis (435) f. 229, DISTANT T.c.

Cynthila cf. *Prolepta*.

Cyrene guttulata Westw., *inermis* Stål, *mucronata* Stål, *telifera* Walk., *foliacea* Stål, transferred to *Tonga*, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (252).

Cythna **gen. n.** *Achilidae*, *laon* **sp. n.** Queensland, KIRKALDY (423) Honolulu Exp. Stat. Bull. **1**.

Daksha **gen. n.** type *Colobesthes marginata* Walk. fig. 223, DISTANT (425) Faun. Brit. Ind. Rhynchota **3**.

Danavara **gen. n.** (404) type *Poeciloptera tennentina* (405) fig. 208; DISTANT T.c.

Danepteryx lurida **sp. n.** Kalifornien, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (175).

Dardus immaculatus **sp. n.** Queensland, KIRKALDY (446) Honolulu Exp. Stat. Bull. **1**.

Delia **gen. n.**, *deserta* **sp. n.** Samatra, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (265).

Delphacissa **subg. n.** of *Delphacodes*, type *uncinata*, KIRKALDY (155) Canad. Entomol. **38**.

Delphacodes cf. *Delphacissa*; *D. melichari* **nom. n.** for *Liburnia fumipennis* Mel., *annae* **nom. n.** for *Delphax concinna* Fieb., *taprobanensis* **nom. n.** for *L. pallidula* Mel., *sinalanus* **nom. n.** for *L. frontalis* Mel., *kaharalu* **nom. n.** for *Delphax venosus* Motsch., KIRKALDY (156) Canad. Entomol. **38**.

Delphax conventzi **sp. n.** Deutschland, MATSUMURA (80) Panzig Schr. natf. Ges. **11**.

Derbe carnosus Westw. cf. *Drona*.

Detya **gen. n.** *Nogodinaria* (387). *fuscocubulosa* **sp. n.** Tenasserim (388) f. 199; DISTANT Faun. Brit. Ind. Rhynchota **3**.

Deradanda **gen. n.** *Derbinae* (315), *pectinata* **sp. n.** Tenasserim (316); DISTANT Faun. Brit. Ind. Rhynchota **3**.

Deragama **gen. n.** *Issinae* (347), *rana* fig. 178, *venosa*, **spp. n.**, India, (348); DISTANT T.c.

Diareusa conspersa **sp. n.** Ecuador, SCHMIDT (375) Stettiner ent. Ztg. **67**.

Dichoptera hyalinata (238) f. 103, DISTANT Faun. Brit. Ind. Rhynchota **3**.—*D. strigivitta* Walk. = (*nubila* Dist.); DISTANT (349) Ann. Mag. Nat. Hist. **18**.

Dictyophara; synonymy (350–353); *D. concolor* Walk. hab. is N. Australia (352); *D. atbarae* Abyssinia, *dixoni*, *cunningi*, India, (351), *prognatha* Queensland (352), **spp. n.**; DISTANT T.c.—*D. nilgiriensis* India (242) **sp. n.**; *lineata* (245) f. 106; DISTANT Faun. Brit. Ind. Rhynchota **3**.

Dictyopharina viridissima (253) f. 111; *consanguinea* **sp. n.** Burma (253); DISTANT T.c.

Dictyssa arcolata, *clathrata* (161), *fusca* (163), *marginepunctata* (164),

mutata (165), **spp. n.**, Kalifornien, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4.

Drona **gen. n.** type *Derbe carnosus* Westw. (305) f. 146, *pennata* **sp. n.** Tenasserim (306); DISTANT Faun. Brit. Ind. Rhynchota **3**.

Druentia = (*Pyrgoteles* Gerst.), *D. variegata* = (*Enchophora sicca* Walk. = *Belbina sicca* Stål = *P. cristatus* Karsch); DISTANT (21) Ann. Mag. Nat. Hist. **18**.

Duriopsis **gen. n.** für *Durium costale*, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (243).

Durium cafferum Stål, Umänderung in *Acrometopus*, MELICHAR T.c. (210).

Duroides **gen. n.** (241). *costatus*, *globosus*, *planifrons*, **spp. n.**, Südamerika, (242), MELICHAR T.c.

Echetra Walk. = *Rhonicia* Stål = *Amilaraca* Dist.; DISTANT (193) Ann. Mag. Nat. Hist. **18**.

Ectopiopterygodelphax **gen. n.** *Asiracidae*, *eximius* **sp. n.** Queensland, KIRKALDY (412) Honolulu Exp. Stat. Bull. **1**.

Ecuadoria **gen. n.** near *Enhydria* (21), *dichopteroides* **sp. n.** Ecuador (22); DISTANT Ann. Mag. Nat. Hist. **18**.

Eddura Walk. = (*Glagoria* Stål): *E. catenaria* **sp. n.** E. Africa; DISTANT (30) Ann. Mag. Nat. Hist. **18**.

Elasmoseclis platypodu (318) f. 155, DISTANT Faun. Brit. Ind. Rhynchota **3**, *E. radians* cf. *Pitambara*.

Enchophora nigromaculata Bolivia, DISTANT (23) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Engela **gen. n.** (415), for *E. minuta* **sp. n.** South Africa (416), DISTANT Cape Town Trans. S. Afric. Phil. Soc. **16** (415).

Enipeus cribratus Cayenne, *gibbifrons*, *notatus*, Brasilien, **spp. n.**, MELICHAR Wien. Abh. ZoolBot. Ges. **3** Heft 4 (260).

Epitemna lacteoplaga **sp. n.** Kongo, SCHMIDT (203) Stettiner ent. Ztg. **67**.

Epithalamium **gen. n.** near *Armacia*, *aziola* **sp. n.** Sydney, KIRKALDY (451) Honolulu Exp. Stat. Bull. **1**.

Epura subtilis Walk. nec. Melichar (233) f. 132; *melichari* **sp. n.** for *subtilis*

Mel. (285); DISTANT Faun. Brit. Ind. Rhynchota 3.

Erana cf. *Vinata*.

Erilla **gen. n.** near *Birdantis*, *turneri* **sp. n.** Queensland; DISTANT (28) Ann. Mag. Nat. Hist. 18.

Eriphyle longifrons Stål, *E. paradoxa*, Umänderung in *Trienopa*, MELICHAR Wien Abh. ZoolBot. Ges. 3 Heft 4 (229).

Eucameruna **gen. n.**, *granulosa* **sp. n.** Gabun, MELICHAR T.c. (248).

Eumelicharia **nom. n.** for *Walkeria* Mel., KIRKALDY (156) Canad. Entomol. 38.

Euphria aurantia (208) f. 90; *apicata* Sikkim (209), *consanguinea*, *burmanica*, *relata*, India, (210), *dissimilis* Tenasserim (211), **spp. n.**; DISTANT Faun. Brit. Ind. Rhynchota 3.—*E. najas* (191), *nigrotibiala* (189), Tonkin, **spp. n.**, SCHMIDT Stettiner ent. Ztg 67.

Euricania ocellus (385) f. 197, DISTANT Faun. Brit. Ind. Rhynchota 3.

Eurinopsyche **gen. n.** for *Fulgora obscurata* Fabr., KIRKALDY (389) Honolulu Exp. Stat. Bull. 1.

Euronotobrachys **gen. n.** near *Olonia*, *arcuata* (446), *plana* (447), Queensland, **spp. n.**, KIRKALDY T.c.

Eurybrachys lepelletieri (220) f. 94; *E. manifesta* **sp. n.** Nilgiri hills (221); DISTANT Faun. Brit. Ind. Rhynchota 3.

Eurymomeus **gen. n.** near *Phrygia*, *australiae* **sp. n.** Queensland, KIRKALDY (422) Honolulu Exp. Stat. Bull. 1.

Euryphantia **gen. n.** *Ricaniinae*, *einerascens* **sp. n.** Queensland, KIRKALDY (456) T.c.

Eurystheus perkinsi **sp. n.** Queensland, KIRKALDY (389) T.c.—*E. doddi*, *clementi*, (19), *palleseens* (20), W. Australia, DISTANT Ann. Mag. Nat. Hist. 18, **spp. n.**

Eutropistidae fam. n.? for *Tropiduchida* Stål, KIRKALDY (413) Honolulu Exp. Stat. Bull. 1.

Farona fuscipennis (445) f. 237, DISTANT Faun. Brit. Ind. Rhynchota 3.

Farentia pustulata (287) f. 135, DISTANT T.c.

Flata ocellata (428) f. 225, DISTANT T.c.

Flatoides mesochlora cf. *Anaya*.

Flatina granulata f. 185; *F?* *striata* Tenasserim **sp. n.** (357); DISTANT Faun. Brit. Ind. Rhynchota 3.

Francessea **gen. n.** *Achilidae*, *saleminophila* **sp. n.** Queensland, KIRKALDY (424) Honolulu Exp. Stat. Bull. 1.

Frutis pulchra (235) f. 101, DISTANT Faun. Brit. Ind. Rhynchota 3.

Fulgora candelaria (184) f. 82, *rogersi* **sp. n.** Nicobar islds. (190), *clavata* (191) f. 83; DISTANT T.c.

†*Fulgoridium* **gen. n.** (496), *pallidum*, *venosum*, *germanicum*, (497), *latum*, *liadis*, *lapideum*, (498), **spp. n.**, Lias Mecklenburg, HANDLIRSCH Fossil. Ins.

Gaetulia nigrovenosa (394) f. 203, DISTANT Faun. Brit. Ind. Rhynchota 3.

Gaja **gen. n.**, *definitiva* fig. 248 (460), *facialis* (462) f. 250, **spp. n.**, Ceylon, and including *Phalaenomorpha inconspicua* Kirby (461) f. 249; DISTANT T.c.

Galela **gen. n.** near *Birdantis* (26), *abdominalis*, *parva*, **spp. n.**, Australia, (27); DISTANT Ann. Mag. Nat. Hist. 18.

Gamergomorphus **gen. n.**, *angustipennis* **sp. n.** Kapland, MELICHAR Wien Abh. zool.-bot. Ges. 3 Heft 4 (175).

Gamergus africanus Transvaal, *sinuaticipennis* Kapland, **spp. n.**, MELICHAR T.c. (173).

Gebenna sylvia (215) f. 92, DISTANT Faun. Brit. India Rhynchota 3.

Gelastissus **gen. n.** near *Peltonotellus*, *albolineatus*, (441), *histrionicus*, *suffusus*, (442), Queensland, **spp. n.**, KIRKALDY Honolulu Exp. Stat. Bull. 1.

Gelastoecephalus **gen. n.** *Cixiinae*, *ornithoides* **sp. n.** Sydney, KIRKALDY (402) T.c.

Gelastodelphax **gen. n.** near *Peregrinus*, *histrionicus* **sp. n.** Queensland, KIRKALDY (411) T.c.

Gelastopsis **gen. n.** *Eurybrachinae* (447), *insignis* **sp. n.** Queensland (448), KIRKALDY T.c.

Gelastyra decipiens Perak, *diversa* Tenasserim, *latifrons* Sumatra, **spp. n.**, MELICHAR Wien Abh. ZoolBot. Ges. 3 Heft 4 (264).—*G. spectans* Walk. (as *Issus*) = (*Cibyra testudinaria* Stål.), MELICHAR (263) T.c.

Gergithus carbonarius (65) Yokohama, *cribratus* (64) Ceylon, *gravidus* (61) Tonkin, *ignotus* (66) Pegu, *lineolatus* (60) Sumatra, *pigrans* Key-Insel, *rugulosus* Perak, (64), *signatifrons* (60), Sumatra, *ridulus* (62) Sudafrika, **spp. n.**, MELICHAR T.c.

Giraka **gen. n.** *Issinae* (314), *hampsoni* **sp. n.** Nilgiri hills (345) f. 175; DISTANT Faun. Brit. Ind. Rhynchota 3.

Gomeda **gen. n.** (443) for *Phalaenomorpha abdominalis* Kirby (144) f. 236; DISTANT T.c.

Hadcodephax **gen. n.** near *Stenocranus*, *pluto* **sp. n.** Queensland, KIRKALDY (410) Honolulu Exp. Stat. Bull. 1.

Hansenia glauca (411) f. 212, DISTANT Faun. Brit. Ind. Rhynchota 3.

Hasta **gen. n.** *Dictyophorinae*, *hastata*, (394), *paupera* (395), **spp. n.**, Queensland, KIRKALDY Honolulu Exp. Stat. Bull. 1.

Heinsenien **gen. n.** (245), *cribrifrons* (246) Usambara, *fatua* Ostafrika, *lacrifrons*, Sansibar, *nigrovenosa* Ostafrika, (247), **spp. n.**, MELICHAR Wien Abh. ZoolBot. Ges. 3 Heft 4.

Hemisphaerius bigeminus Birma (96), *bipunctatus* Malakka (96), *celebensis* Celebes (95), *chloris* Key-Insel (87), *chlorophanus* Philippinen (86), *cinctus* Carin-Cheba (91), *corvinus* Key-Insel (76), *elegantulus* Halmahera (77), *flavovariegatus* Ostindien (79), *frontalis* Südindien (87), *gagatus* Celebes (75), *geminatus* Celebes (79), *alutaceus* Java (89), **spp. n.**; *bipustulatus* Walk., *chilocorides* Walk., *contusus* Walk., *herbaceus* Kirby, *schaumi* Stål, *secundus* Melich., *variabilis* Butl., Umänderung in *Gergithus*; MELICHAR Wien Abh. Zool-Bot. Ges. 3 Heft 4 (63, etc.). *laterittatus* Walk., Umänderung in *Herophila* MELICHAR, T.c. (57); *ardus* Celebes (90), *biarcuatus* Sula-Besi (79), *imitatus* Sumatra (88), *imperus* Sumatra, etc. (89), *javanensis* Java (88), *lygaeus* Mentawai-Insel etc. (74), *maculatus* Borneo (86), *maculipes* Sumatra (86), *morio* Engano (75), *nigritus* Deutsch-Neuguinea (76), *nigrolimbatus* Neu-Guinea (91), *ruficeps* Birma (74), *similis* Neu-Guinea (81), *submaculatus* Sumatra (85); MELICHAR T.c., **spp. n.**—*H. ruforarius* (359) f. 187; *testaceus*, *vircescens*, Tenasserim, (360), *nilgiriensis*, *reticulatus*, (361), *elongatus*

(362), Nilgiri hills, *renosus* Tenasserim (363), **spp. n.**; DISTANT Faun. Brit. Ind. Rhynchota 3.

Hemisphaeroides aeneoniger (364) f. 188, DISTANT Faun. Brit. Ind. Rhynchota 3.

Heronax **gen. n.** *Derbidae*, *parnassius*, (431), *saccharivora* (432), Queensland, **spp. n.**, KIRKALDY Honolulu Exp. Stat. Bull. 1.

Hilarita **gen. n.** near *Flata* (432), *trimaculata* **sp. n.** Ceylon (433) f. 227; and including *Ormenis fatua* Mel.; DISTANT Faun. Brit. Ind. Rhynchota 3.

Holodictya schroederi Nairobi **sp. n.**, SCHMIDT (198) Stettiner ent. Ztg. 67.

Homaloccephala festiva (199) f. 86, DISTANT Faun. Brit. Ind. Rhynchota 3.

Homaloplasis **gen. n.**, *apriea* **sp. n.** Oran, MELICHAR Wien Abh. ZoolBot. Ges. 3 Heft 4 (27).

†*Homopterites* **gen. n.** (499), *anglieus* **sp. n.** Lias England (400), HANDLIRSCH Fossil. Ins.

Hotinus cultellatus Walk. = (*Fulgora bicolor* Schmidt) and *Fulg. cardinalis* Butl. = (*cardinalis* Schmidt) referred to *Saiva*, DISTANT (20) Ann. Mag. Nat. Hist. 18.

Hycterodus cuniciceps **sp. n.** Dalmatien, etc., MELICHAR Wien Abh. ZoolBot. Ges. 3 Heft 4 (108).

Hysteroptissus **gen. n.** (97), *conspargulus* **sp. n.** Neu-Guinea (98), MELICHAR T.c.

Hysteropterum foucleri **nom. n.** für *H. montanum* Fowl. (149); *punctulatum* **nom. n.** für *H. germari* Fieber (137); *H. angustum* Mediterranean (130), *assimile* Kleinasien (140), *cornutum* Kalifornien (147), *curtulum* Spanien (121), *dubium* Canaren (131), *quadarramense* Spanien (126), *horvathi* Kilimandjaro (153), *maeulipes* Triest &c. (141), *moschi* Deutsch-Ostafrika (152), *pallidum* Algier (127), *pictifrons* Armenien (140), *placophorum* (Horv.) Asia minor (135), *semipellucidum* Paraguay (147), *signatipes* Algier (121), *syriacum* Syria (145), *ribex* Ostafrika (154); MELICHAR Abh. zool. bot. Ges. Wien 3 Heft 4, **spp. n.**

Hysteropterum gibbipenne Walk. Umänderung in *Acrisius* MELICHAR, Wien Abh. ZoolBot. Ges. 3 Heft 4 (224).—*H. placophorum*, *assimile*, Asia

minor, HORVÁTH (188) Wien Ann. Nat. Hist. Hofmus. **20**, spp. n.—*H. subfasciatum* (341) f. 173, DISTANT Faun. Brit. Ind. Rhynchota **3**.—*H. informe* Walk., *sellatum* Mel., *spissum* Walk. Umänderung in *Capelopterum*, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (213).—*H. sellatum* cf. *Narayana*.—*H. fuscum* Mel., *subfasciatum* Mel., Umänderung in *Sarima*, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (302).—*H. semivitreum* Prov. Umänderung in *Dietyssa*, MELICHAR T.c. (165).

Hysterosphaerius gen. n., *scarpunetatus* sp. n., Singapore, MELICHAR (98) T.c.

Interamma rubrofasciata (307) f. 147, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Isobium gen. n., *gibbosum* sp. n. Madagascar, MELICHAR Wien Abh. Zool. Bot. Ges. **3** Heft 4 (218).

Issina gen. n. (209), *suturalis* sp. n. Java (210) MELICHAR T.c.

Issomorphus gen. n. (292), *maculatus* Nordamerika, *prociuius* Costarica, spp. n., (293), MELICHAR T.c.

Issoscepa gen. n. (204) *Amphiscepa nodipennis* Germ.; *I. camelus* Chile, *nana* Brasilien, (217), *nodosa* (216) Brasilien, *quadrutuberculata* Südamerika (217), spp. n., MELICHAR T.c.

Issus biforis Germ., *colombiae* Walk., *ellipticus* Germ., *herbaceus* Spinola, *longipennis* Spinola, *prasinus* Spinola, *rubrocostatus* Spinola, *simplex* Germ., *varius* Walk. Umänderung in *Thionia*, MELICHAR Wien Abh. Zool. Bot. Ges. **3** Heft 4 (275).—*I. acutus* Walk., to *Syrgis* (308), *I. longulus* Lettner to *Thionia* (286), *I. oratipennis* Walk. to *Picumna* (290), *I. infixus* Walk. to *Enipeus* (260), *I. herbidus* Walk. *piceus* Walk. *I. viridis* Montr. to *Tylana*, (206); *I. bellardi* (188) Cypern, *canariensis* (190) Tenerife, *caucasicus* (186) Thanathol, *feberi* (191) Cypern, spp. n.; *I. auroreus* Uhler & *algiricus* Lucas to *Hysteropterum* (148); MELICHAR Wien Abh. Zool. bot. Ges. **3** Heft. 4.—*I. rulturnus*, *sidnicus* (437), *ridicularius*, *elongatulus* (438), Australia, KIRKALDY Honolulu Exp. Stat. Bull. **1**, spp. n.—*I. lineatus* cf. *Nilalohita*.

Ityraea ferruginea (208), *henkei* (206), Kongo, spp. n., SCHMIDT Stettiner ent. Ztg. **67**.

Jada gen. n. *Derbinae* (299) for *Thracia nitagalensis* Kirb. fig. 144; DISTANT Faun. Brit. Ind. Rhynchota **3**.

Jagannata gen. n. *Issinae*, *chelonia* fig. 171 (338), *maculata* (339), spp. n., Tenasserim; DISTANT T.c.

Jamaicastes baroni Ecuador, *steinbachii* Bolivia; DISTANT (199) Ann. Mag. Nat. Hist. **18**, spp. n.

Jumella gen. n. *Phalaenomorhini*, *australiae* sp. n. Queensland, KIRKALDY (460) Honolulu Exp. Stat. Bull. **1**.

Jivatma gen. n. *Lophopinae* (328), *metallica* sp. n. Tenasserim (329) f. 163; DISTANT Faun. Brit. Ind. Rhynchota **3**.

Kaha gen. n. *Derbidae* (433), *perfecta* sp. n. Queensland (434), KIRKALDY Honolulu Exp. Stat. Bull. **1**.

Kalidasa lanata Dr. (as *Cicada*) = (*Aphaena albiflos* Walk.); the habitat is E. India not Jamaica; DISTANT (195) Ann. Mag. Nat. Hist. **18**.—*K. sanguinalis* (212) f. 91, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Kalpa gen. n. *Delphacinae*, *aculeata* sp. n. Ceylon fig. 261; DISTANT (474) T.c.

Kamendaka gen. n. *Derbinae* (310), *spectra* f. 151, *fuscofasciata*, spp. n., Ceylon, (311); DISTANT T.c.

Karna gen. n. near *Hiracia* (274), *karenia* sp. n. Burma (275) f. 126; DISTANT T.c.

Kasserota gen. n. type *Aearna notaticollis* Stål; *K. doreyensis* sp. n. New Guinea; DISTANT (350) Ann. Mag. Nat. Hist. **18**.

Kermesia albida (309) f. 149, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Ketumala gen. n. for *Seliza bisecta* Kirby fig. (238), DISTANT (446) T.c.

Kinnara nom. n. for *Pleroma* Mel. (289), *albiplaga* sp. n. Ceylon (290); DISTANT T.c. *K.* nom. n. for *Pleroma* Mel., DISTANT (8) Entomologist London **29**.

Kirbyana nom. n. for *Kirbya* Mel. (262), *pagana* (263) f. 118; DISTANT Faun. Brit. Ind. Rhynchota **3**. *Kirbyana* = (*Kirbyella* Kirk.) DISTANT (274) Entomologist 1906.

Kirbyella nom. n. for *Kirbya* Mel., KIRKALDY (248) Entomologist 1906.

Kosalya **gen. n.** *Cixiinae* (292), *flavostrigata* **sp. n.** Burma f. 140 (293); DISTANT Faun. Brit. Ind. Rhynchota **3**.

Kusuma **gen. n.** *Lophopinae* (329), *carinata* **sp. n.** India (330) f. 164; DISTANT T.c.

Kuvra **gen. n.** *Cixiinae*, *semihyalina* **sp. n.** Burma f. 117; DISTANT (261) T.c.

Laesa *fuscofasciata* (324) f. 159, DISTANT T.c.

Lamenia *kulia* (403), *hiva* (404), Queensland, KIRKALDY Honolulu Exp. Stat. Bull. **1**, **spp. n.**

Lawana **nom. n.** for *Phyma* Mel. (420), *conspersa* (421) f. 220; *radiata* Cachar, *L. ? bicarinata* Bhutan, **spp. n.**, (221); DISTANT Faun. Brit. Ind. Rhynchota **3**.

Leusaba *rufitarsis* (281) f. 130 distinguished from *marginalis* Walk.; DISTANT T.c.

Levu **gen. n.** near *Paricana*, *vitiensis* **sp. n.** Viti islands, KIRKALDY (434) Honolulu Exp. Stat. Bull. **1**.

Limois *westwoodi* (200) f. 87, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Lipocallia **gen. n.** near *Ncaethus* (440), *australeusis* **sp. n.** Sydney (441), KIRKALDY Honolulu Exp. Stat. Bull. **1**.

Lollius *angustifrons*, *acutipennis*, Queensland, **spp. n.**, KIRKALDY (439) T.c.—*L. fuscus*, Engano (195), *gratiosus* Neu-Guinea (194), *transversus* Mentawai (196), **spp. n.**, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4.

Loxocephala *aeruginosa* (232) f. 99, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Lucinda **subgen. n.** vide *Thanatodietya*.

Lycorma *imperialis* (206) f. 89, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Magadha **gen. n.** (290) type *Cixius flavisigna* Walk. fig. 138; *nebulosa* **sp. n.** Ceylon (291); DISTANT T.c.

Majella **gen. n.**, *Achilidae*, *majella* **sp. n.** Queensland, KIRKALDY (421) Honolulu Exp. Stat. Bull. **1**.

Malfeytia *monteiri* Angola, DISTANT (193) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Mongola **gen. n.**, *reticulata* Deutsch-Ostafrika, *sinuata* Kilimandjaro, **spp. n.**, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (159).

†*Margaroptilon* **gen. n.** *brodiei*, woodwardi, *bullei*, **spp. n.**, Lias England, HANDLIRSCH (499) Fossil. Ins.

Massila *walkeri* (159), *sidnica* (160), Australia, KIRKALDY Honolulu Exp. Stat. Bull. **1**, **spp. n.**

Matacosa **gen. n.** near *Scaralis* for *Domitia miscella* Dist.; DISTANT (198) Ann. Mag. Nat. Hist. **18**.

Melandera **gen. n.** *Cixiinae*, *ocellara* **sp. n.** Assam f. 123, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Melicharia *lutescens* (431) f. 226, DISTANT T.c.

Messena pulverosa (226) f. 96, DISTANT T.c.—*M. mouhoti* Cambodia, DISTANT (203) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Metaphaena *tricolor* ♂, SCHMIDT (196) Stettiner ent. Ztg. **67**.

Metoponitys pennatus Sierra Leone, DISTANT (205) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Miasa rubrovittata **sp. n.** Sumatra and Java (284), SCHMIDT Stettiner ent. Ztg. **67**.

Miasa **gen. n.** (247) for *Dictyophora smaragdilinea* Walk. figured (248) f. 108, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Mimophantia australensis **sp. n.** Queensland, KIRKALDY (458) Honolulu Exp. Stat. Bull. **1**.

Monteira **gen. n.** *corniculata* **sp. n.** Damaraland, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (158).

Mundopa **gen. n.** *Cixiinae*, *cingalensis* (263) f. 119, *greeni*, Ceylon, *myittae*, (264), *dohertyi*, *fasciatus*, (265), Tenasserim, **spp. n.**; and including *Cixius dotatus* Walk.; DISTANT Faun. Brit. Ind. Rhynchota **3**.

Myrilla nigromaculata Waigion **sp. n.**, SCHMIDT (196) Stettiner ent. Ztg. **67**.—*M. papuana*, *semihyalina*, New Guinea, DISTANT (29) Ann. Mag. Nat. Hist. **18**, **spp. n.**

Ncaethus fenestratus, *grossus*, *maculatus*, (167), *nigronervosus* (168), Nordamerika, **spp. n.**, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (167).

Nakta **gen. n.** near *Flata*, *stoliezkan* **sp. n.** Sind, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Narayana **gen. n.** *Issinae, rusticitatis* fig. 179. (349), *piccipennis* Ceylon, umbrosa Nilgiri hills. (350), **spp. n.**; including also *Hysteropterum sellatum* Mel.; DISTANT T.c.

Naso fitchii **sp. n.** Colorado, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (19).

Nematophora Schaum = (*Simotettix* Stål), DISTANT (355) Ann. Mag. Nat. Hist. **18**.

Nesis tricolor fig. 100; *N. versicolor* **sp. n.** India; DISTANT Faun. Brit. Ind. Rhynchota **3**.

Nicidus fusconebulosus (230) f. 97, DISTANT T.c.

Nieulda **subgen. n.** vide *Thanatodietya*.

Nilalohita **gen. n.**, *curculioides* **sp. n.** Burma f. 186; including also *Issus lineatus* Walk.; DISTANT Faun. Brit. Ind. Rhynchota **3**.

Nilaparrata **gen. n.** *Delphaeinae, greeni* **sp. n.** Ceylon fig. 260; DISTANT (473) T.c.

Nisia grandiceps **sp. n.** Queensland, KIRKALDY (427) Honolulu Exp. Stat. Bull. **1**.—*N. atrorenosa* (309) f. 150; *alborensa* **sp. n.** Ceylon (310); DISTANT T.c.

Nubithia chilensis Chile **sp. n.**, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (177).

Oliarus bouakeanus Ivory coast, KIRKALDY (155) Canad. Ent. **38**, **sp. n.**.—*O. walkeri* (256) f. 113; *fusconebulosus* Burma (258), *punctipennis* India etc. (259), **spp. n.**; DISTANT Faun. Brit. Ind. Rhynchota **3**.—*O. laertes, kampaspe, talunia*, (398), *asaiea, felis, alexanor*, (399), *sponsa, phelia, lubra*, (400), Australia, KIRKALDY Honolulu Exp. Stat. Bull. **1**, **spp. n.**

Olonia picea **sp. n.** Queensland, KIRKALDY (445) Honolulu Exp. Stat. Bull. **1**.—*O. marginata* Queensland, DISTANT (206) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Orgerius punctiger Asia minor, HORVÁTH (187) Wien Ann. Nat. Hist. Hofmus. **20**, **sp. n.**

Ormenis impunctata Madagascar (210), *unispinosa* Ost-Afrika (212), **spp. n.**, SCHMIDT Stettiner ent. Ztg. 67.—*O.*

epilepsis nom. n. for *marginata* Brunn., KIRKALDY (156) Canad. Entomol. **38**.—*O. fatua* cf. *Hilarvrita*.

Oryza truncata f. 233, doubtful identification; DISTANT (439) Faun. Brit. Ind. Rhynchota **3**.

Ossa venusta, formosa, **spp. n.**, Queensland, KIRKALDY (414) Honolulu Exp. Stat. Bull. **1**.

Padanda **gen. n.** *Lophopinae* (331), *atkinsoni* **sp. n.** Sikkim (332) f. 166; DISTANT Faun. Brit. Ind. Rhynchota **3**.

Pamendanga **gen. n.** *Derbinae* (298) *rubilinea* **sp. n.** Tenasserim (299) f. 143; DISTANT T.c.

Paramelicharia cf. *Copsyrna*.

Parametopus **gen. n.** für *Aerometopum costatipenne* Stål., MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (244).

Paranipeus **gen. n.**, *latipes* **sp. n.** Brasilien, MELICHAR (261) T.c.

Paropioxys negus Abyssinia, DISTANT (204) Ann. Mag. Nat. Hist. **18**, **sp. n.**.—*P. usambarae*, SCHMIDT (200) Stettiner ent. Ztg. 67.

Pelidnopepla obscura Fabr. = (*Poio-cera nigrifrons* Walk.), DISTANT (197) Ann. Mag. Nat. Hist. **18**.

Peltodietya **gen. n.** *Eutropistidae* (414), *kurandae* **sp. n.** Queensland (415), KIRKALDY Honolulu Exp. Stat. Bull. **1**.

Peltonotus histrionicus Stål, *P. rani-formis* Muls. Rey, *scurrilis* Stål, Umänderung in *Peltonotellus*, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (33).

Penthicodes = (*Synaphana*), DISTANT (274) Entomologist 1906.—*Penthicodes* valid as against *Aphaena*, *Aphana* and *Penthieus*; DISTANT (24) Ann. Mag. Nat. Hist. **18**.

Penthicus cf. *Synaphana*.

Perissus **gen. n.** für *Issus jakowleffi* Put., MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (113).

Perkinsiella graminicida Queensland, *vitiensis* Levuka, KIRKALDY (406) Honolulu Exp. Stat. Bull. **1**, **spp. n.**

Phacalastor **gen. n.** near *Peregrinus, pseudomaidis, koebelei*, **spp. n.**, Queensland, KIRKALDY (408) T.c.

Phaciocephalus **gen. n.** near *Nisia, vitiensis* **sp. n.** Viti islands, KIRKALDY (428) T.c.

Phaeoneura **gen. n.** near *Nisia*, *froggatti*, *pallida* (428), **spp. n.**, Australia, KIRKALDY T.c.

Phalaenomorphia abdominalis cf. *Gomeda*; *P. inconspicua* cf. *Gaja*; *P. parva* cf. *Bochana*.

Phantasmatocera **gen. n.** *Derbidae* (430), *arborea* Queensland, *vitiensis* Viti islands, (431), **spp. n.**, KIRKALDY Honolulu Exp. Stat. Bull. 1.

Pharsalus **gen. n.** *repandus* **sp. n.** Brasilien (222), MELICHAR Wien Abh. ZoolBot. Ges. 3 Heft 4.

Phenelia **gen. n.** near *Elidiptera* (421), *elidipteroides* **sp. n.** Queensland (422), KIRKALDY Honolulu Exp. Stat. Bull. 1.

Pheniee moesta f. 142; *superba* **sp. n.** Assam; DISTANT (297) Faun. Brit. Ind. Rhynchota 3.

Philadelphieia **gen. n.** *Derbidae*, *pan-dani* **sp. n.** Queensland, KIRKALDY (432) Honolulu Exp. Stat. Bull. 1.

Phrietus ocellatus Sign., SCHMIDT Stettiner ent. Ztg. 67 (373).

Phromnia marginella (398) f. 205, *viridula* (401) f. 206; DISTANT Faun. Brit. Ind. Rhynchota 3.

Phyllyphanta albopunctata (415) f. 215, *sinensis* (416) f. 216; *andamanensis* **sp. n.** Andaman islds. (414) f. 214; DISTANT T.c.—*P. acutipennis* cf. *Pulastya*.

Phyma basipunctata Madagaskar **sp. n.**, SCHMIDT (209) Stettiner ent. Ztg. 67.—*Phyma* cf. *Lavana*.

Pibrocha egregia (240) f. 104, DISTANT Faun. Brit. Ind. Rhynchota 3.

Pisacha **gen. n.** *Nogodiniaria* (391), *naga* **sp. n.** Assam (392) f. 201; DISTANT T.c.

Pitambara **gen. n.** type *Elasmoseelis radians* Kirby (319) f. 156; *interrupta* Tenasserim, *undulata* Burma, (320), *sinuata* Tenasserim (321), **spp. n.**; DISTANT T.c.

Plagiopsis decorata **sp. n.** Buenos Aires, MELICHAR Wien Abh. ZoolBot. Ges. 3 Heft 4 (39).

Platybrachys oculata (443), *chlorocephala* (444), Australia, KIRKALDY Honolulu Exp. Stat. Bull. 1, **spp. n.**—*P. barbata* Fabr. = (*Eurybrachys rubiginea* Walk.); DISTANT (206) Ann. Mag. Nat. Hist. 18.

Pleroma cf. *Kinnara*.

Pochazia interrupta (371) f. 192, *fusca* (373) f. 193; *confusa* = (*interrupta* Mel.) (371), *atkinsoni* (374), India, *triangularis* Ceylon (375), **spp. n.**; DISTANT Faun. Brit. Ind. Rhynchota 3.

Pochazoides nigromaculatus Madagascar **sp. n.**, SCHMIDT (204) Stettiner ent. Ztg. 67.

Poeciloptera tenuentina cf. *Danavara*; *P. comma* cf. *Chaturbuja*.—*P. intracta* cf. *Umnata*.

Polydictya = (*Thaumastodictya*) (25); *P. crassa* Celebes, *illuminata* Sambawa, **spp. n.**, (26); DISTANT Ann. Mag. Nat. Hist. 18.—*P. basalis* (216) f. 93, DISTANT Faun. Brit. Ind. Rhynchota 3.

Pristiopsis cf. *Cathedra*.

Privesa deleta fig. 198; *confinis* **sp. n.** Sind; DISTANT (386) Faun. Brit. Ind. Rhynchota 3.

Prolepta Walk. = (*Cynthila* St.) KIRKALDY (249) Entomologist 1906.

Prosonoma **gen. n.** (235), *rugifrons* **sp. n.** Engano (236), MELICHAR Wien Abh. ZoolBot. Ges. 3 Heft 4.

Pseudohemisphaerius **gen. n.** for *Hysteropterum pieum*, MELICHAR T.c. (99).

Pterilia ceylonensis (365) f. 189; *signata*, *piecata*, **spp. n.**, Ceylon, (366); DISTANT Faun. Brit. Ind. Rhynchota 3.

Ptoleria areuigera (266) f. 120, DISTANT T.c.

Pulaha **gen. n.** near *Phyllyphanta*, *contracta* **sp. n.** Nilgiri hills fig. 219; DISTANT (419) T.c.

Pulastya **gen. n.** type *Phyllyphanta acutipennis* Kirby (417) f. 217; DISTANT T.c.

Pundaluoya ernesti (468) f. 254; *simplicia* **sp. n.** Ceylon (468) f. 255; DISTANT T.c.

Purohita **gen. n.** *Delphacinae*, *cervina* **sp. n.** Ceylon fig. 257; DISTANT (470) T.c.

Purusha, characters (203); *P. rubromaculata* Siam **sp. n.** (204); DISTANT Ann. Mag. Nat. Hist. 18.—*P. reversa* (236) f. 102, DISTANT Faun. Brit. Ind. Rhynchota 3.

Putala maculata South India **sp. n.**, DISTANT, (247) T.c.—*P. brachycephala*.

Singapore, *lewisi* Japan; DISTANT Ann. Mag. Nat. Hist. **18**, **spp. n.**—*P. transvaaliensis* **sp. n.** Cape Town, DISTANT Trans. S. Afric. Phil. Soc. **16** (416).

Pyrops basibrunneus Kongo (185), *basilacteus* S. Africa (184), *schweizeri* Liberia (183), **spp. n.**, SCHMIDT Stettiner ent. Ztg. **67**.—*P. intricatus* Walk. = (*basilacteus* Schmidt); DISTANT (191) Ann. Mag. Nat. Hist. **18**.—*P. dohrni* (180) f. 81, *chennelli* **sp. n.** Assam (181); DISTANT Faun. Brit. Ind. Rhynchota **3**.

Pyrrhoneura **gen. n.** *Derbidae* (434), *saccharicida* **sp. n.** Viti islands (435), KIRKALDY Honolulu Exp. Stat. Bull. **1**.

Pyrrhyllis **gen. n.** *Achilidae* (420), *pyrrhyllis* **sp. n.** Queensland, KIRKALDY (421) T.c.

Radamana **gen. n.** (194), *varicolor* **sp. n.** Madagascar (195); DISTANT Ann. Mag. Nat. Hist. **18**.

Radha acuminata (347) f. 177, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Remosa **gen. n.** type *Dictyophara cultellator* Walk., DISTANT (355) Ann. Mag. Nat. Hist. **18**.

Rhaba **gen. n.** *Dictyopharinae*, *fasciata* **sp. n.** S. Africa, DISTANT Cape Town Trans. S. Afric. Phil. Soc. **16** (417).

Rhinodictya **gen. n.** *Eutropistidae* (416), *quaesitrix* **sp. n.** Queensland (417), KIRKALDY Honolulu Exp. Stat. Bull. **1**.

Rhotana chrysonoe, *haematoneura* Queensland, KIRKALDY (435) T.c.—*R. fuscofasciata* f. 152, *trimaculata*, (312), Ceylon, *venosa* Tenasserim (313), DISTANT Faun. Brit. Ind. Rhynchota **3**, **spp. n.**

Ricania fenestrata (376) f. 194, *simulans* (378) f. 195; *mitescens* Mergni (377), *bicolorata* (378), *zebra* (379), India, **spp. n.**; DISTANT T.c.

†*Ricaniites* **gen. n.** for *Ricania fulgens* Brod., HANDLIERSCH (640) Fossil. Ins.

Ricanoptera mellerborgi (383) f. 196; *opaca* **sp. n.** Ceylon (384); DISTANT Faun. Brit. Ind. Rhynchota **3**.

Rileya **gen. n.** (160), *reticulata* **sp. n.** Texas (161), MELICHAR Wien Abh. Zool. Bot. Ges. **3** Heft 4.

Rotunosa **gen. n.** type *Dictyophara indicanda* Walk., DISTANT (353) Ann. Mag. Nat. Hist. **18**.

(N-9720 j)

Saiva **gen. n.** (192) type *Fulgora gemmata* Westw. (193) f. 84, *nodata* **sp. n.** India (193); DISTANT Faun. Brit. Ind. Rhynchota **3**.

Salemina **gen. n.** *Achilidae*, *francescophila* **sp. n.** Queensland, KIRKALDY (424) Honolulu Exp. Stat. Bull. **1**.

Salurnis marginellus (418) f. 218; *uniformis* **sp. n.** Burma (419); DISTANT Faun. Brit. Ind. Rhynchota **3**.

Samantiga **gen. n.** *Issinae*, *abdominalis* **sp. n.** fig. 180 Nilgiri hills; DISTANT (351) T.c.

Samsana **gen. n.** near *Prolepta* (20), *chersonesia* **sp. n.** Perak (21); DISTANT Ann. Mag. Nat. Hist. **18**.

Sardis **gen. n.** for *Phenice maculosa* Kr., KIRKALDY (433) Honolulu Exp. Stat. Bull. **1**.

Sarnus lucindae **sp. n.** Queensland, KIRKALDY (440) T.c.

Sarima illibata (343) f. 174; *cretata* **sp. n.** Ceylon (344); DISTANT Faun. Brit. Ind. Rhynchota **3**.—*S. amagisana* Sumatra (303), *bimaculata* Deutsch-Neuguinea (304), *castanea* Philippinen (302), *clathrata* Banguet (304), *nigroclypeata* Ostindien (302), *notata* Neu-Guinea (304), *separata* Mentawai (303), *solita* Perak (303); MELICHAR Wien Abh. Zool. bot. Ges. **3** Heft 4; **spp. n.**

Satapa **gen. n.** near *Colobesthes*, *sicula* Ceylon fig. 224, (426), *granulosa* Bombay (427), **spp. n.**; DISTANT Faun. Brit. Ind. Rhynchota, **3**.

Scamandra clytaemnestra, *selene*, **spp. n.**, Celebes, BREDDIN Halle Abh. natf. Ges. **24** (131-132).—*S. erinita* Sumatra (194), *sanguinae* Malacca (193), **spp. n.**, SCHMIDT Stettiner ent. Ztg. **67**.—*S. fasciata* Borneo (24), *varicolor* Bali (25); DISTANT Ann. Mag. Nat. Hist. **18**, **spp. n.**

Scaphoideus amae Ivory coast, KIRKALDY (154) Canad. Entomol. **38**, **sp. n.**

Scaralis versicolor Bolivia, DISTANT (197) Ann. Mag. Nat. Hist. **18**, **sp. n.**

Scarpantina bimaculata (422) f. 221, *modesta* (423), S. India; DISTANT Faun. Brit. Ind. Rhynchota **3**, **spp. n.**

Scolypopa kurandae **sp. n.** Queensland, KIRKALDY (450) Honolulu Exp. Stat., Bull. **1**.—*S. conradi* Kamerun **sp. n.**, SCHMIDT (205) Stettiner ent. Ztg. **67**.

Seliza ferruginea (441) f. 234, *truncata* (442) f. 235; DISTANT Faun. Brit. Ind. Rhynchota **3**.—*S. bisecta* cf. *Ketumala*.

Semissus **gen. n.** für *Issus acuminatus* Leth., MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (112).

Sephenia rubida, *hyacintha*, *cinerea*, *argus*, Australia, KIRKALDY (457) Honolulu Exp. Stat. Bull. **1**, **spp. n.**

Serida latens (325) f. 160, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Sialosearta sumatrana (278), *krügeri* (279), Sumatra, **spp. n.**, SCHMIDT Stettiner ent. Ztg. **67**.

Siphanta galeata (453), *acutipennis*, *brericeps*, *toga*, (454), *lucindae*, *subgranulosa*, *granulata*, (455), KIRKALDY Honolulu Exp. Stat. Bull. **1**, **spp. n.**

Sivaloka **gen. n.** *Issinae*, *limacodes* India fig. 181 (352), *bipartita* Tenasserim (353), **spp. n.**; DISTANT Faun. Brit. Ind. Rhynchota **3**.

Smara **gen. n.** *Delphacinae*, *festiva* Ceylon fig. 264, (478), *atrata* Tenasserim (479), **spp. n.**; DISTANT T.C.

Smierotatodelphax **gen. n.** near *Delphacinus* (411), *perkinsi* **sp. n.** Queensland (412), KIRKALDY Honolulu Exp. Stat. Bull. **1**.

Sogata **gen. n.** *Delphacinae*, *dohertyi* **sp. n.** Tenasserim fig. 258; DISTANT (471) Faun. Brit. Ind. Rhynchota **3**.

Solouaima **gen. n.** *Cixiinae* (396), *solouaima* **sp. n.** Queensland (397), KIRKALDY Honolulu Exp. Stat. Bull. **1**.

Stacota breviceps (282) f. 131, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Stenocranus agamopsyche **sp. n.** Queensland, KIRKALDY (409) Honolulu Exp. Stat. Bull. **1**.

Sudasina **gen. n.** *Issinae*, *testudo* **sp. n.** Ceylon fig. 182; DISTANT (353) Faun. Brit. Ind. Rhynchota **3**.

Suva **gen. n.** near *Nisia*, *koebelci* **sp. n.** Viti islands, KIRKALDY (428) Honolulu Exp. Stat. Bull. **1**.

Suezeyia **gen. n.** *Derbidae*, *lyricen* **sp. n.** Viti islands, KIRKALDY (430) T.C.

Symplana viridinervis (254) f. 112, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Synaphana **nom. n.** for *Penthicus* Stål, KIRKALDY (248) Entomologist 1906.—*Synaphana* cf. *Penthicodes*.

Syrgis dohrni Sumatra (309), *indiguus* Celebes (310), **spp. n.**; MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft. 4.

Tabocasa **gen. n.** near *Learcha*, *sanguinolenta* **sp. n.** Ecuador; DISTANT (202) Ann. Mag. Nat. Hist. **18**.

Tambinia languida (276) f. 127; *inconspicua* Burma f. 128, *maculosa* India, (277), *atrosignata* Ceylon, *capitata* Tenasserim, (278), **spp. n.**; DISTANT Faun. Brit. Ind. Rhynchota **3**.

Taosa **gen. n.** type *Flata suturalis* Germ., DISTANT (355) Ann. Mag. Nat. Hist. **18**.

Tatra **gen. n.** *Issinae* (336), *bufo* **sp. n.** Bombay (337) f. 169; DISTANT Faun. Brit. Ind. Rhynchota **3**.

Tejasa **gen. n.** near *Cryptoflata*, *umbra* **sp. n.** Nilgiri hills fig. 232, DISTANT (438) T.C.

Temesa cf. *Vekunta*.

Tetrica fasciatifrons (298), *suffusa* (297) Neu-Guinea, **spp. n.**, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft. 4.

Tetrica bifasciata, *viridimixta* fig. 172, Tenasserim, DISTANT (340) Faun. Brit. Ind. Rhynchota **3**, **spp. n.**

Thabena stali **sp. n.**, Singapore, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft. 4 (294).

Thanatodictya **gen. n.** *Dictyopharinae*, *T. (Lucinda* subgen. n.) *lucindae* (392), *T. (Niculda* subgen. n.) *anadyomene*, *hebe*, *psyche*, (393), **spp. n.**, Australia, KIRKALDY Honolulu exp. Stat. Bull. **1**.

Thessitus insignis (231) f. 98, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Thionia bifasciatifrons Brasilien (274), *carinata* Nicaragua (281), *coriacea* Brasilien (277), *dubiosa* Peru (276), *fusca* Brasilien Columbien (274), *gibba* Brasilien (275), *impressa* Jamaica (284), *latifrons* Bolivien (276), *maculata* Südamerika (279), *mexicana* Mexico (285), *obsoleta* Südamerika (278), *obtusa* Mexico (279), *ocellata* Nordamerika (283), *onerata* Venezuela (280), *orata* Brasilien (280), *proxima* Peru (278), *tigrata* Peru Bolivien (272), *transversalis* Nordamerika (281), *truncatella* Mexico (284), *variata* Brasilien (278);

MELICHAR Wien Abh. zool. bot. Ges. **3** Heft 4; **spp. n.**

Thracia nitagalensis cf. *Jada* and *Zoraida*.

Thyrocephalus **gen. n.** *Derbidae* (429), *leucopterus* **sp. n.** Queensland (430), KIRKALDY Honolulu Exp. Stat. Bull. **1**.

Togoda **gen. n.**, *africana* **sp. n.** Deutsch-Westafrika, MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (233).

Tonga fusiformis Walk. (as *Cyrene*) = (*C. obtusata* Noualh.), MELICHAR T.c. (253). — *T. westwoodi* (355) f. 184, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Toya **gen. n.** *Delphacinae*, *attenuata* **sp. n.** Ceylon fig. 259; DISTANT (472) T.c.

Trienopa ambigua Madagascar (230), *bipunctata* Trop. Afrika (229), *cyrta* Kamerun (232), *elongata* Madagascar (230), *fasciata* Usambara (232), *orphana* Ostafrika (232), *varicolor* Madagascar (231), *viridis* Mombasa (229); MELICHAR Wien Abh. zool. bot. Ges. **3** Heft 4, **spp. n.**

Tylana acutipennis Borneo Queensland, (200), *caledonica* Neukaledonien (201), *conspureata* Queensland (203), *constipata* Neu-Guinea (204), *electa* Celebes (209), *inseulpta* Celebes (208), *interpunctata* Neukaledonien (201), *intrusa* Viti-Inseln (207), *invasa* Neu-Guinea (205), *laterata* Roon (205), *orientalis* Indischer Archipel (208), *samoensis* Samoa (206), *separanda* Vaterland unbekannt, (201); MELICHAR Wien Abh. zool. bot. Ges. **3** Heft 4, **spp. n.**—*T. philippina* Stål, *T. tagalica* Stål, Umänderung in *Sealabis*, MELICHAR T.c. (197).

Udugama splendens (249) f. 109, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Upachara **gen. n.** *Delphacinae*, *stigma* **sp. n.** Ceylon fig. 256; DISTANT (469) Faun. Brit. Ind. Rhynchota **3**.

Ulixes cassidoides Walk. (as *Issus*) = (*clypeatus* Fowl.) MELICHAR Wien Abh. ZoolBot. Ges. **3** Heft 4 (219).

Umata **gen. n.** type *Poeciloptera intracta* Walk. fig. 231; DISTANT (437) Faun. Brit. Ind. Rhynchota **3**.

Usana **gen. n.** *Cixiinae* (293), *lineolalis* **sp. n.** Tenasserim (294) f. 141; DISTANT T.c.

(N-9720 j)

Vanua **gen. n.** *Eutropistidae* (415), *ritiensis* **sp. n.** Viti islands (416), KIRKALDY Honolulu Exp. Stat. Bull. **1**.

Vareia Stål = (*Aphanophrys* Mel.), cf. also *Vareilla*, KIRKALDY (248) Entomologist 1906.—*V. hemerobii* (389) f. 200; *kandyiana* **sp. n.** Ceylon (390); DISTANT Faun. Brit. Ind. Rhynchota **3**.

Vareilla **nom. n.** for *Vareia* Mel. nec Stål, KIRKALDY (248) Entomologist 1906.

Varma **gen. n.** *Lophopinae* (330), *tridens* **sp. n.** Ceylon (331) f. 165; DISTANT Faun. Brit. Ind. Rhynchota **3**.

Vekunta **nom. n.** for *Temesa* Mel., DISTANT (8) Entomologist London **29**.—*Vekunta* **nom. n.** for *Temesa* Mel. (287) f. 136; DISTANT Faun. Brit. India Rhynchota **3**.

Vinata **nom. n.** for *Erana* Walk., DISTANT (8) Entomologist London **29**.—*Vinata* **nom. n.** for *Erana* Walk. (314), *nigricornis* fig. 153; *nivosa* **sp. n.** Assam (315); DISTANT Faun. Brit. Ind. Rhynchota **3**.

Vishnuloka **gen. n.** *Issinae*, *prominula* Sikkim fig. 176 (345), *cuneata* Tenasserim (346), **spp. n.**; DISTANT T.c.

Viraha **gen. n.** *Derbinae* (307), *facialis* **sp. n.** Tenasserim etc. (308) f. 148; DISTANT T.c.

Yarrana **gen. n.** near *Olonia* (206), *sinuata*, *continuata*, **spp. n.**, Queensland (207); DISTANT Ann. Mag. Nat. Hist. **18**.

Zamila aberrans (327) f. 161, DISTANT Faun. Brit. Ind. Rhynchota **3**.

Zepasa **gen. n.** *Fulgorinae* (191), *aurivilliana* **sp. n.** Brazil (192); DISTANT Ann. Mag. Nat. Hist. **18**.

Zeunasa **gen. n.** type *Poecocera irrorata* Blanch., DISTANT (200) T.c.

Zoraida pterophoroides (301) f. 145; *rufirena* (302), *motschouloukyi*, *gilva*, (303), *ficta* (= *nitagalensis* Mel.) (304), **spp. n.**, Ceylon; DISTANT Faun. Brit. Ind. Rhynchota **3**.

The following Fulgoridae have been previously dealt with in the Zoological Record.

(*Aerobelus delphinus* NOUALHIER, Mission Pavie **3** sp. n.)

(*Cyrene obtusata* NOUALHIER T.c. **3** sp. n.)

(*Eudelphax setulosus* Mel., Identität mit *Eudelphax serendiba* Kirk., KIRKALDY, Entomol. Ztg. Wien **24** 1905 (266).)

(*Fulgora monctaria* NOUALHIER Mission Pavie **3** sp. n.)

(*Hemisphaerius interclusus* NOUALHIER, T.c. sp. n.)

(*Oliarus cucullatus*, *petasatus*, NOUALHIER T.c. sp. n.)

(*Ricania flabellum* NOUALHIER T.c. sp. n.)

MEMBRACIDAE.

Acanthuchus dromedarius, *obtus*, Australia, KIRKALDY (377) Honolulu exp. Stat. Bull. **1**, spp. n.

Centrotypus hospes sp. n. Sydney, KIRKALDY (378) Honolulu Exp. Stat. Bull. **1**.

Enchenopa coacta sp. n. Peru, SCHMIDT (361) Stettiner ent. Ztg. **67**.

Gargara vulpeculus sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. **24** (126).

Gelostorrhachis gen. n. near *Eutryonia* (372), *diadema*, *clarata*, spp. n., Queensland, (373), KIRKALDY Honolulu Exp. Stat. Bull. **1**, spp. n.

Gigantorhabdus gen. n. near *Hypsauchenia* (371), *enderleini* sp. n. Borneo (372), SCHMIDT Stettiner ent. Ztg. **67**.

Hoplophorion erectum with var. *nigromaculatum* Ecuador (363), *carinulatum* (364), *haenschi* (365), Columbien, *ohausianum* Ecuador (366), spp. n., SCHMIDT T.c.

Hypsauchenia Germ. = (*Pyrgonota* Stål), SCHMIDT (369) T.c.

Membracis sanguineoplaga sp. n. Brasilien, with varr. nn. *nigricauda* and *completa*, SCHMIDT (360) T.c.

Pterygia pohlkei sp. n. Columbien, SCHMIDT (362) T.c.

Pyrgauchenia gen. n., BREDDIN Halle Abh. natf. Ges. **24** (126).—*Pyrgauchenia* Bredd. = (*Pyrgophyllum* and *Pyrgolyrium* Br.) (369), *P. foersteri* var. n. *fulva* (371), *P. breddini* Ceylon sp. n. (370), SCHMIDT Stettiner ent. Ztg. **67**.

Sarantus nobilis sp. n. Queensland, KIRKALDY (374) Honolulu Exp. Stat. Bull. **1**.

Sextius assimilis (376), *longinotum kurandae* (377), Australia, KIRKALDY T.c., spp. n.

Tumayana gen. n. near *Poppea* (367), *eva* sp. n. Peru (368), SCHMIDT Stettiner ent. Ztg. **67**.

(*Leptocentrus subflavus* NOUALHIER, Mission Pavie **3** sp. n.)

† PROCERCOPIDAE.

†*Procercopis* gen. n. *Procercopidae* fam. n., *alutacea*, (500), *liasina* (501), spp. n., Lias Mecklenburg, and *Cercopis jurassica* Gein., HANDLIRSCH Fossil. Ins.

CERCOPIDAE.

Amyllis gen. n. (386), *leiala* sp. n. Queensland (387) KIRKALDY Honolulu Exp. Stat. Bull. **1**.

Aufidellus gen. n. near *Aufidus*, *australensis* sp. n. Queensland, KIRKALDY (381) T.c.

Aufiterna gen. n. near *Aufidus*, *ptyeloides* sp. n. Queensland, KIRKALDY (382) T.c.

Clovia multisignata sp. n. Celebes, BREDDIN Halle Abh. natf. Ges. **24** (124).

Cosmoscarta dirce, *orithyia*, *callirhoë hyale*, *psecas*, *liriope*, *rhanis*, spp. n., Celebes, BREDDIN (115–121) T.c.—*C. incincta* var. n. *semirubra* Celebes, Id. l.c.

Euryaulax gen. n. (380), *callitettigoides* sp. n. Queensland (381), KIRKALDY Honolulu Exp. Stat. Bull. **1**.

Euryercopis gen. n. *nigrofasciata* sp. n. Queensland, KIRKALDY (383) T.c.

Mioscarta gen. n., BREDDIN Halle Abh. natf. Ges. **24** (123).

Pectinariophyes gen. n., *pectinaria* sp. n. Queensland, KIRKALDY (386) Honolulu Exp. Stat. Bull. **1**.

Petyllis gen. n. near *Aufidus*, *australensis* sp. n. New South Wales, KIRKALDY (382) T.c.

Polychaetophyes gen. n. near *Hindola* (384), *serpulidia*, *aequalior*, spp. n., Queensland, (385), KIRKALDY T.c.

Ptyelus flavescens, habits, HINDE (225) pl. xiii London Trans. ent. Soc 1906,

Triecphora sanguinolenta, *sanguinea intermedia*, synonymie, *intermedia* var. *nigra* var. nov. ROYER (298) Paris Bull. Soc. ent. 1906.

(*Cosmoscarta carens*, *carinifrons*, NOUALHIER, Mission Pavie 3 spp. n.)

(*Triecphora septemmaculata* sp. n., Jerusalem, MELICHAR, Entomol. Ztg. Wien 22 1903 (282).)

JASSIDAE.

Aglena ornatula nom. n. pro *pallida* Walk., KIRKALDY (319) Honolulu Exp. Stat. Bull. 1.

Anemochrea gen. n., (329), *mitis* sp. n. Sydney (330), KIRKALDY Honolulu Exp. Stat. Bull. 1.

Anemolua gen. n., *hanuala* sp. n. Queensland, KIRKALDY (329) T.c.

Aneono gen. n. *Eupteryginae* (358), *pulcherrima* sp. n. Australia (359) KIRKALDY T.c.

†*Archijassus* gen. n., *geinitzi* Lias Mecklenburg sp. n., and pts. of *Cercopis* and *Cercopidium* Gein., HANDLIRSCH (501) Fossil. Ins.

Athyasus renosus New York, OSBORN (526) Albany N.Y. New York Mus. Bull. 97, sp. n.

Chlorita pusilla sp. n. Deutschland, MATSUMURA (77) Danzig Schr. natf. Ges. 11.

Cicadula histrionicula Queensland (361), *vitiensis* Viti islands (362), KIRKALDY Honolulu Exp. Stat. Bull. 1, spp. n.—*C. sexnotata*, JUNGNER Berlin Arb. D. LandwGes. Heft 115 (1–50) 1 Taf.

Daltocephalus excisus sp. n. Deutschland, MATSUMURA (79) Danzig Schr. natf. Ges. 11.—*D. (?) perparrus* sp. n. New South Wales, KIRKALDY Honolulu Exp. Stat. Bull. 1.

Dikraneura honiala, *ancala*, Australia, KIRKALDY (360) T.c., spp. n.

Dorycephalus ianthe, *subreticulatus*, (340), *trilineatus* (341), Australia, KIRKALDY T.c., spp. n.

Dryadomorpha gen. n. (335), *pallida* sp. n. Queensland (336), KIRKALDY T.c.

Ectopiocephalus gen. n. *Penthimiinae*, (463), *vanduzeei* sp. n. Queensland (464), KIRKALDY T.c.

Empoa australensis sp. n. Queensland, KIRKALDY (363) T.c.

Epipsychidion gen. n. *Agalliini* (345), *epipyrops* sp. n. Sydney (346), KIRKALDY T.c.

Erythroneura melanogaster, *lubra*, (364), *honiloo*, *ipoloo*, *honiala*, (365), Australia, KIRKALDY T.c., spp. n.

Euleimonios gen. n. *Macrostelini*, *demittendus* sp. n. New South Wales, KIRKALDY (342) T.c.

Eupteryx cyclops sp. n. Deutschland, MATSUMURA (78) Danzig Schr. natf. Ges. 11.—*E. haematoptilus* sp. n. Queensland (362); *melichari* nom. n. pro *picta* Md. (363), KIRKALDY Honolulu Exp. Stat. Bull. 1.—*E. nigra* New York, OSBORN Albany N.Y. St. Mus. Bull. 97 sp. n.

Eurinoscopus gen. n. near *Bythoscopus* (346), *lentiginosus*, *soutiates*, (347), *soboles*, *dryas*, *pelias*, *molestia*, (348), *pelamys* (349), Australia, spp. n., KIRKALDY Honolulu Exp. Stat. Bull. 1.

Eurymeloides hyacinthus, *cumulosus*, (351), *bicinctellus*, *ornatus*, (352), *rubrirenosus*, *lentiginosus*, (353), Australia, KIRKALDY T.c., spp. n.

Eurymelops subg. n. of *Eurymela* for *E. rubrovittata* etc., KIRKALDY (354) T.c.—*E. rubrolimbata* (354), *plebeia*, *lubra*, (355), Australia, KIRKALDY T.c., spp. n.

Eutettix brunneus N. York, OSBORN (530) Albany N.Y. St. Mus. Bull. 97, sp. n.

Giffardiu gen. n. near *Dorycephalus*, *dolichocephala* sp. n. Queensland, KIRKALDY (336) Honolulu Exp. Stat. Bull. 1.

Gnathodus viridis New York, OSBORN (541) Albany N.Y. St. Mus. 97, sp. n.

Gypona geminata New York, OSBORN (513) T.c., sp. n.

Hecalus immaculatus sp. n. Queensland, KIRKALDY (338) Honolulu Exp. Stat. Bull. 1.

Idiocerus ipo sp. n. Queensland, KIRKALDY (466) T.c.

Ipo n. gen. *Agallinae*, (464), *ambita*, *conferta* (465), *honiala*, *acrotata*, (466), Queensland, spp. n., KIRKALDY T.c.

Kahaono gen. n. near *Dikraneura*, *hamula* sp. n. Queensland, KIRKALDY (361) T.c.

Kahavalu gen. n. *Ledrinae*, *gemma* sp. n. New South Wales, KIRKALDY (371) T.c.

Kosmiopelix gen. n. near *Aphrodes* (334), *varicolor* sp. n. Queensland (335), KIRKALDY T.c.

Kyphocotis gen. n. *Ledrinae* (370), *tessellata* sp. n. Queensland (371), KIRKALDY T.c.

Macroceratogonia gen. n. (323), *aurea* sp. n. Queensland (324), KIRKALDY T.c.

Myrmecophryne gen. n. near *Graphocraerus* (461), *formicetiolela* sp. n. Queensland, KIRKALDY (462) T.c.

Nephotettix plebeius (331), *contemptus* (332), Australia, KIRKALDY T.c., spp. n.

Nesosteles gen. n. *Macrostelini*, *hebe* (343), *glauca*, *sanguinescens*, *sordidior*, (344), *taedia* (345), spp. n., Queensland, KIRKALDY T.c.

Paradorydium menalus (339), *pseudolyricen* (340), KIRKALDY T.c., spp. n.

Pedioscopus gen. n. near *Idiocerus*, *philenor*, *polydorus*, (349), *agenor* (350), spp. n., Queensland, KIRKALDY T.c.

Pettya gen. n. *Macrostelini*, *anemolua* sp. n. Queensland, KIRKALDY (343) T.c.

Phaeosema gen. n. (387), *gallicola* sp. n. Vorder-Indien (388), KIEFFER Zs. wiss. Insektenbiol. 2.

Phrynomorphus longinquus, *taedius*, (326), *fatigandus* (327), Queensland, KIRKALDY Honolulu Exp. Stat. Bull. 1, spp. n.

Phrynophyes gen. n., *phrynophyes*, (327), *parvula* (328), spp. n., Queensland, KIRKALDY T.c.

Platymetopius eupreseens (517), *angustatus* (518), *fulvus* (519), New York, OSBORN Albany N.Y. St. Mus. Bull. 97, spp. n.

Rhotidus ingens, (366), *informis*, *flavomaculatus*, *monstrum*, *ledropsiformis*, (367), *horrendus*, *viridescens*, (368), Australia, KIRKALDY Honolulu Exp. Stat. Bull. 1, spp. n.

Scaphoidens pristidens sp. n. Queensland, KIRKALDY (333) T.c.—*S. opalinus* New York, OSBORN (525) Albany N.Y. St. Mus. Bull. 97, sp. n.

Smicrocotis gen. n. *Ledrinae*, *obscura* sp. n. Queensland, KIRKALDY (370) Honolulu Exp. Stat. Bull. 1.

Sphinctogonia gen. n., *quineuneula*, *serrula*, *reginula*, spp. n., Celebes, BREDDIN Halle Abh. natf. Ges. 24 (128–130).

Tartessus syrtidis sp. n. Queensland, KIRKALDY (341) Honolulu Exp. Stat. Bull. 1.

Tettigonia viridis, natural history, PIERRE Rev. Sci. Bourbon 1906 (77–82).—*T. koebelei* (319), *pasiphae* (320), *parthaon*, *pettimolua*, (321), *anemolus* (322), Australia, KIRKALDY Honolulu Exp. Stat. Bull. 1, spp. n.

Thamnotettix combibus sp. n. Deutschland, MATSUMURA (78) Danzig Schr. natf. Ges. 11.—*T. exquisitos* (534), *placidus* (536), New York, OSBORN Albany N.Y. St. Mus. Bull. 97, spp. n.

Tharra gen. n. near *Jassus* (324), *labena* sp. n. Queensland (325), KIRKALDY Honolulu Exp. Stat. Bull. 1.

Thaumatoscopus gen. n. near *Gypona*, *galeatus* sp. n. Queensland, KIRKALDY (462) T.c.

Vulturinus gen. n. near *Gypona*, *vulturinus* sp. n. Queensland, KIRKALDY (463) T.c.

(*Annidion* gen. n. (267), *puleherimum*, Elfenbeinküste, sp. n., (260), KIRKALDY, Entomol. Ztg. Wien 24 1905 (267).)

(*Gypona kangrensis* Ostindien, KIRKALDY, T.c. (267) sp. n.)

(*Motschulskyia* nom. n. für *Conometopus* Motsch. KIRKALDY, (266) T.c.)

(*Thomsonia arcuata*, Synonymie KIRKALDY, (267) T.c.)

(*Thomsoniella* Sign., Synonym von *Thomsonia*, KIRKALDY, (267) T.c.)

(*Edomops rubescens* NOUALHIER, Mission Pavie, 3 sp. n.)

(*Heccalus platalea* NOUALHIER, T.c. sp. n.)

PSYLLIDAE AND ARCHIPSYLLIDAE.

†*Archipsylla* **gen. n.** *Archipsyllidae* fam. n., (502), *primitiva*, *liasina*, **spp. n.**, Lias Mecklenburg, (503), HANDLIRSCH Fossil. Ins.

Phytolma lata Scott, galls etc., VOSSELER Zs. wiss. Insektenbiol. **2** (276–285, 305–316).

Protyora **gen. n.** für *Tyora stereuliæ* Froggatt, KIEFFER (388) Zs. wiss. Insektenbiol. **2**.

Psylla and bees, GIARD, Feuille jeunes natural. **36** (63).

(*Psyllia* nom. n. für *Psylla* auct. nec. typ., KIRKALDY Entomol. Ztg. Wien **24** 1905 (268).)

APHIDAE.

List of genera and catalogue of recently described species, KIRKALDY Canad. Entomol. **38** (9–18, 135, 202).

Supplementary list to Kirkaldy's catalogue of the Aphidae described as new from 1885. SCHOUTEDEN, Bruxelles Ann. Soc. ent. Belgique 1906 (30–36).

Catalogue of North American *Aphididae*, with host-plant and plant-host list, Part 2. SANBORN Lawrence Kan. Univ. Sci. Bull. **3** (223–275).

Annotated catalogue of Belgian *Aphidae*, SCHOUTEDEN (189–246) Bruxelles Mem. Soc. ent. Belgique **12**.

The *Aphidae* of Guernsey, LUFF (82–89) Guernsey Trans. Soc. Nat. Sci.

Diverse galle prodotte sul *Populus nigra*; GUERCIO Redia **3** (375–385) con 28 fig.

Studies on the germ cells of *Aphids*; STEVENS, Washington Carnegie Institution Publication No. 51 (28) pl.

Plant louse on *Scirpus lacustris* L. var. *genuinus* remedies against (Japanese). OKADA Kouch. Sek. Gifu **10** (358–362 & 411–414).

Abamalekia **gen. n.** near *Cerataphis*, *lazarevi* **sp. n.** Italy, DEL GUERCIO (364) Redia **3**.

Aphis caricis (218), *musæ* (223), Belgium, SCHOUTEDEN Bruxelles Mem. Soc. ent. Belgique **12**, **spp. n.**—*A. sorghella* Africa, SCHOUTEDEN (135) Bruxelles Ann. Soc. ent. Belgique **50**, **sp. n.**—*A. ribis* (46) pl. xvi f. 82, *aubletia* (48) pl. xii f. 68, Kansas, SANBORN Lawrence

Kan. Univ. Sci. Bull. **3**, **spp. n.**—*A. houghtonensis* **sp. n.** Indiana, TROOP (59) Ent. News **17**.—*A. schoutedeni* nom. n. for *spirææ* Schout., KIRKALDY (13) Canad. Entomol. **38**.—*A. cardui*, peculiar habitat, VOGT (255) Paris Bull. Soc. ent. 1906.—*A. gossypii*, natural history, CHITTENDEN Washington Cir. U. S. Dept. Agric. Bur. Ent. No. **80** (1–16).—*Aphis maidi-radiceis* and *Lasius niger* var. *americanus*, FORBES Washington U. S. Dept. Agric. Bur. Ent. Bull. No. **60** (29–41).

Callipterus generæi Kansas, SANBORN (38) pl. vii f. 45 Lawrence Kan. Univ. Sci. Bull. **3**, **sp. n.**

Cerataphis betulæ ♂, SCHOUTEDEN (197) Bruxelles Mem. Soc. ent. Belgique **12**.

Cerosipha **gen. n.**, DEL GUERCIO 1900, cf. SCHOUTEDEN Bruxelles Ann. Soc. ent. Belgique **50** (31).

Chaitophorus stevenensis (36) pl. vii f. 47, *flabellus* (37) pl. xx f. 95 Kansas, SANBORN Lawrence Kan. Univ. Sci. Bull. **3**, **spp. n.**

Chermes; Lebensgeschichte und Schaden an Nadelhölzern, CHOLODKOVSKY St. Petersburg [Depart. f. Landwirthschaft] 1906 (60) 6 Taf.—*C. pieææ*, natural history, MARCHAL (111–114) Paris Bull. Soc. Zool. **31**.—*Chermes pini* Koch., biologie, MARCHAL Paris Bull. soc. ent. 1906 (179–182).

Eucallipterus **nom. n.** for *Pterocallis* Mordwilko, SCHOUTEDEN (31) Bruxelles Ann. Soc. ent. Belgique **50**.

Kaltenbachella **gen. n.** (194), *menthae* **sp. n.**, Belgium (195), SCHOUTEDEN Bruxelles Mem. Soc. ent. Belgique **12**.

Lachnus incertus nom. n. for *subterraneus* del Guercio, *caricis* Walk. forms, (203, 204), *pieææ* Walk. forms, (205–207), SCHOUTEDEN T.c.

Macrosiphum squarrosa (77) pl. xvi f. 84, *biennis* (78) pl. ix f. 51 Kansas, SANFORD Lawrence Kan. Univ. Sci. Bull. **3**, **spp. n.**—*M. granaria*, winged female, SANDERSON Ent. News **17** (290); notes, SANBORN Ent. News **17** (327–328).

Mindarus and *Schizoneura*, DEL GUERCIO (371–374) Redia **3**.

Mindarus abietinus, the genus and species, DEL GUERCIO (371–375) T.c.

Myzoxylus; radicolous form of the fir, parthenogenetic female, DEL GUERCIO (365-371) T.c.

Myzus filaginis Belgium, SCHOUTEDEN (231) Bruxelles Mem. Soc. ent. Belgique 12.

Nipponaphis gen. n. near *Schizoneura*, *distychii* sp. n. Japan, PERGANDE (205) Ent. News 17.

Pemphigus; the various galls formed on *Populus nigra*, DEL GUERCIO (375-385) Redia 3.—*P. poschingeri* Schädingung, VADAS Erd. kis. 8 (192-193).—*P. burrowi* Kansas, SANBORN (18) pl. iv f. 30 Lawrence Kan. Univ. Sci. Bull. 3, sp. n.—*P. oestlundii* nom. n., COCKERELL Ent. News 17 (34).

Pterocallis gen. n. MORDWILKO 1894; cf. SCHOUTEDEN (31) Bruxelles Ann. Soc. ent. Belgique 50.

Rhizoicus and *Rhizomaria*, DEL GUERCIO (365-371) Redia 3.

Rhizomaria Hartig = (*Holzneria* Licht.), SCHOUTEDEN (42) Bruxelles Ann. Soc. Ent. Belgique 50.

Schizoneura rotundiventris Sign. to *Toxoptera*, SCHOUTEDEN (37) T.c.—*S. lanigera* habits, life history, BLONFIELD Quart. J. microsc. Sci. 50 (573-579) pl. xxxii.—*S. fodiens*, natural history, THEOBALD Washington Bull. U. S. Dept. Agric. Bur. Ent. No. 60 (166-170).

Subcalipterus gen. n., MORDWILKO 1901; cf. SCHOUTEDEN (31) Bruxelles Ann. Soc. ent. Belgique 50.

Toxoptera theobromae W. Africa, SCHOUTEDEN (37) T.c., sp. n.

Trichosiphum gen. n. near *Greenidea* (206), *anonae* (207), *kuwanae* (208), Japan, spp. n., PERGANDE Ent. News 17.

Tuberculatus gen. n. MORDWILKO 1894; cf. SCHOUTEDEN (31) Bruxelles Ann. Soc. ent. Belgique 50.

Trycheoides nom. n. for *Tychea* Pass., SCHOUTEDEN (194) Bruxelles Mem. Soc. ent. Belgique 12.

Xerampelus gen. n. DEL GUERCIO 1900; cf. SCHOUTEDEN (31) Bruxelles Ann. Soc. ent. Belgique 50.

(Lécaillon, A. Sur un puceron (*Aphis papaveris* Fabr.) ennemi de la Betterave; Paris, Bul. Soc. entom. 1905 (258-260).)

(*Aphis sorghi* sp. n. Sudan, destructive to crops. THEOBALD, Khartoum,

Rep. Wellcome Res. Lab., 1, 1904, (43-45, with pls.).)

(*Aphis* spp. STEVENS, J. Exp. Zool. Baltimore, Md. 2 1905 (313-333, with 4 pl.).)

ALEURODIDAE.

Some new or little known *Aleyrodidae* from Connecticut, BRITTON Ent. News 17 (127-130).

(*Aleyrodes actaeae* Connecticut, BRITTON, Ent. News 16 1905 (65-67) pl. sp. n.)

COCCIDAE.

Catalogue of recently described species, SANDERS Washington D.C. U. S. Dept. Agric. Bur. Ent. Techn. ser. 12 pt. 1 (1-18).

The *Coccidae* of Sweden; TULLGREN (69-95) Uppsala Ent. Tidskr. Stockholm 27.

Monophlebinae of Australia; FROGGATT, 5.

Tables of Rocky mountains *Coccidae*; COCKERELL Stud. Univ. Colorado 2 (189-203).

Generi e specie di *Diaspiti*. Saggio di sistematica delle *Fioriniae*; LEONARDI Redia Firenze 3 (1905) 1906 (16-65) con 22 fig.

Formalin as a means of preparation, GREEN (129, 130) Ent. Mag. London 42.

Actenaspis subg. n. cf. *Leucaspis*.

Adiseofiorinia gen. n. for part of *Fiorinia* (52), *secreta* Green etc., *atalantiae* Ceylon (54) sp. n., LEONARDI Redia 3.

Anamaspis subg. n. cf. *Leucaspis*.

Anamefiorinia gen. n. for part of *Fiorinia* viz. *casuarinae* and *lidgetti*, LEONARDI (48) Redia 3.

Aonidia pinicola Valencia, LEONARDI (1 sep. pag.) Portici Ann. Scuola sup. Agric. 6, sp. n.—*A. picea* Valencia on *Billartia officinalis*, LEONARDI (6) Redia 3, sp. n.

Aonidiella taxus Italy, LEONARDI (1) Redia 3, sp. n.

Aspidiotus oxycoccus New Jersey (73), *pseudospinosus* Florida (75), WOGLUM Canad. Entomol. 38, spp. n.—*A. perniciosus*, natural history and distribu-

tion, MARLATT Washington U. S. Dept. Agric. Bur. Ent. Bull. No. **62** (189) plates i-ix.—*A. destructor* (218) pl. vii figs. 1-8, BANKS Philipp. J. Sci. **1**.

Chionaspis candida Philippines (232) pl. iv f. 1, altered to *C. inday* (787), BANKS Philipp. J. Sci. **1**, sp. n.

Chrysomphalus prosimus Philippines, BANKS (230) Pl. i f. i T.c., sp. n.

Coccus; the type fixed by Schulzer is *hesperidum*, FERNALD (125) Canad. Entomol. **38**.

Dactylopius longispinus, LAMBERTIE Bordeaux Act. soc. linn. **60** 1905 (proc. verb. lxxxix).

Diaspis pentagona, parasites of, HOWARD Ent. News **17** (291-293); FRANCESCHINI Milano Atti Soc. ital. **45** (62-70).

Eriococcus bahiae (330), *howardi* (331), *catalinae* (332), California, EHRLHORN Canad. Entomol. **38**, spp. n.—*E. dubius* var.? Paraguay, COCKERELL (32) Washington D.C. Proc. ent. Soc. **8**.

Eulecanium; table of species, COCKERELL (83-88) Canad. Entomol. **38**.

Euphillippia gen. n. *Lecaniites* (396), *olivina* sp. n. Italy (398), BERLESE and SILVESTRI Redia **3**.

Fiorinia, monograph; *F. bidens* (23), *odinae* (24), *tumida* (38), *juniperi* (39), spp. n., Ceylon; LEONARDI Redia **3**.—*F. hirsuta* Alger, MARCHAL (145) Paris Bul. soc. ent. **1906**, sp. n.

Hemichionaspis orlandi Matto Grosso, LEONARDI (5) Redia **3**, sp. n.

Kermes rattani California, EHRLHORN (329) Canad. Entomol. **38**, sp. n.

Laccifer Oken = (*Tachardia* Blanch.), KIRKALDY (249) Entomologist **1906**.

Lecanium sericeum sp. n. (147, 152), LINDINGER Insektenbörse **23**.

Lepidosaphes mcgregori (233) pl. v, *unicolor* (234) pl. vii, Philippines, BANKS Philipp. J. Sci. **1**, spp. n.

Leucaspis; revision with *Anaspis* and *Actenaspis* subgen. n., LEONARDI (1-29 sep. pag.) Portici Ann. Scuola sup. Agric. **6**.—*L. affinis* Francia, Id. (4 sep. pag.) T.c., sp. n.

Margarodes; longévitité, MAYET Paris Bul. soc. ent. **1906** (228-229).

Morganella longispina Morg. = (*maskelli* Cock.), KOTINSKY (78) Honolulu Proc. Hawai. ent. Soc. **1**.

Mytilaspis pomorum on *Helianthemum vulgare*, CHAPMAN (233) Ent. Mag. London **42**.

Orthezia californica Santa Clara, EHRLHORN (329) Canad. Entomol. **38**, sp. n.—*O. urticae* in den Niederlanden, OUDEMANS's Gravenhage Tijdschr. Ent. **49** (xlvii).

Paralecanium cocophyllae Philippines, BANKS (235) pl. viii Philipp. J. Sci. **1**, sp. n.

Parlatoria; the species distinguished by dorsal glands; PALMER (131-146) pls. xxiii-xxviii Lawrence Kan. Univ. Sci. Bull. **3**.—*P. greeni* Philippines, BANKS (231) pl. iii f. 1 Philipp. J. Sci. **1**, sp. n.

Phenacoccus colemani California, EHRLHORN (332) Canad. Entomol. **38**, sp. n.—*P. helianthi*, COCKERELL (34) Washington D.C. Proc. ent. Soc. **8**.

Pseudococcus pandani, *armatus* var. *a*, COCKERELL (33) T.c.—*P. juniperi* California, EHRLHORN (333) Canad. Entomol. **38**, sp. n.

Pulvinaria; measurements of young, KING (325) Canad. Entomol. **38**.—*P. innumerabilis*, number of eggs, DAVIS (368) Ent. News **17**.—*P. pluchae* California, EHRLHORN (334) Canad. Entomol. **38**, sp. n.

Pollinia pollinii, male life-history, BERLESE and PAOLI (393-395) Redia **3**.

Ripersiella kelloggi California, EHRLHORN (334) Canad. Entomol. **38**, sp. n.

Stotzia gen. n. *Lecanides* (143), *striata* sp. n. Algérie (144), MARCHAL Paris Bul. Soc. ent. **1906**.

Tachardia cf. *Laccifer*.

Trulliflorinia gen. n. for part of *Fiorinia* (41), *rubrolineata* (44) sp. n. Ceylon; LEONARDI Redia **3**.

(MARCHAL, P. Sur la biologie du *Chysomphalus dictyospermi* var. *minor* Berlese, et sur l'extension de cette cochenille dans le bassin méditerranéen. Paris Bul. soc. ent. **1904**, (246-249).)

(*Aspidiotus riverae* Chile, COCKERELL, Ent. News **16** 1905 (161-163), sp. n.)

(*Ceroplastes sanguineus*, *schrottkyi*, Paraguay. COCKERELL, Ent. News **16** 1905 (161-163), spp. n.)

ANOPLURA.

Stechund Saugapparat der Pedicelliden. PAWLOWSKI Zs. wiss. Insektenbiol. **2** 1906 (156-162, 193-204).

Antaretophthirius gen. n. (661), *ogmorhini* sp. n. Antarktis (662), ENDERLEIN Zool. Anz. **29**.

Echinophthirius microchir to *Antaretophthirius* (663); (*E. setosus* Rothsch. 1902) = *A. ogmorhini*, (662); ENDERLEIN T.c.

Haematopinus stephensi, on *Ierbellus indicus*, CHRISTOPHERS and NEWSTEAD (3) pl. 1, Liverpool Thompson Yates Lab. Rep. **7**, sp. n.

THYSANOPTERA.

Euthrips nieotianae, HOOKER Washington Cir. U. S. Dept. Agric. Bur. Ent. No. **68** (1-5).

Kladothrips rugosus sp. n. Tamworth N.S.W., FROGGATT Agric. Gaz. **17** (1011) figg.

PSOCIDAE.

Monograph of Amphientomidae, Lepidopsoeidae, Lepidillidae: ENDERLEIN Spolia zeylan. **4** (39-122) 7 pls. Supplementary note, GREEN T.c. (123-125).

Einige Notizen der Copeognathen Nordamerikas, ENDERLEIN Stettiner ent. Ztg. **67** 1906 (317-320).

Zur Copeognathen fauna der Provinz Novgorod. (Russ.) ZAVARZIN St. Petersburg Ber. Süßwasserst. Naturf. Ges. **2** (271-276).

†List of fossil *Psocidae*; MEUNIER (59) Natraliste 1906.

Amphigerontia kolbei (246) *nubila* (247), spp. n., Japan, ENDERLEIN Zool. Jahrb. Syst. **23**.

Amphipsocus iridescens sp. n. Ostafrika, ENDERLEIN (311) Stettiner ent. Ztg. **67**.

Archipsocus brasiliannus sp. n. Brasilien (83), *A. recens* End. (86) figs., ENDERLEIN Zool. Jahrb. Syst. **24**.

Cacilius scriptus Japan (312), *wolff-hugelianus* Argentinien (313), spp. n., ENDERLEIN Stettiner ent. Ztg. **67**.—*C. gonostigma* (253), *japanus* (254), *oyamai* (252), spp. n., Japan, ENDERLEIN Zool. Jahrb. Syst. **23**.—*C. fasciatus* sp. n. Brasilien, ENDERLEIN (12) pl. vi f. 2 Op. cit. **24**.

Ceratipsocus nigrofasciatus Kolbe = (*Psocus speciosus* Aaron and *tolteca* Banks), ENDERLEIN (318) Stettiner ent. Ztg. **67**.

Cladioneura gen. n. (404) *pulchripennis* sp. n. Australien (405), ENDERLEIN Zool. Jahrb. Syst. **23**.

Clematostigma gen. n. type *Copostigma maeuliceps*, ENDERLEIN (403) T.c. —*C. schillei* sp. n. Java, ENDERLEIN (310) Stettiner ent. Ztg. **67**.

Dasypsocus gen. n. (250) *japonicus* sp. n. Japan (251), ENDERLEIN Zool. Jahrb. Syst. Jena **23**.

Echmepteryx mihara (43 but *mihira* 107), *sericea* (108), Ceylon, ENDERLEIN Spolia Zeylan. **4** 1906, spp. n. —*E. hageni* Pack. (as *Amphientomum*) = (*agilis* Aaron), ENDERLEIN (320) Stettiner ent. Ztg. **67**.

Ectopsocus strauschi sp. n. Canarische Ins., ENDERLEIN (315) Stettiner ent. Ztg. **67**.—*E. froggatti* sp. n. Australien, ENDERLEIN (407) Zool. Jahrb. Syst. **23**.—*E. ribagai* sp. n. Brasilien, ENDERLEIN (83) Op. cit. **24**.

Elipsocus punctatus California, BANKS (1) Philadelphia Tr. Amer. ent. Soc. **32**, sp. n.

Graphocaccilius luridus sp. n. Peru, ENDERLEIN (314) Stettiner ent. Ztg. 67.

Hemipsocus hyalinus sp. n. Japan, ENDERLEIN (311) T.c.

Hemiscopsis gen. n. for *Amphientomum fulleborni* Enderl., ENDERLEIN (73) Spolia zeylan. 4 1906.

Ischnopteryx pulchra sp. n. Mittel-Amerika (308), ENDERLEIN Stettiner ent. Ztg. 67.

Kolbea fusconervosa sp. n. Japan, ENDERLEIN (252) Zool. Jahrb. Syst. 23.

Lepium gen. n. *Perientominae*, *chrysochlorum* India, (81), *luridum* Ceylon (83), spp. n., ENDERLEIN Spolia Zeylan. 4 1906.

Lepolepis gen. n. *Lepidillidae* (112), *ceylonica* Ceylon sp. n. (113), ENDERLEIN T.c.

Matsumuraiella gen. n., *radiopicta* sp. n. Japan, ENDERLEIN (248) Zool. Jahrb. Syst. 23.

Mesopsocus unipunctatus var. *fasciatus* n., var. *bifasciatus* n., var. *subfuscus* n., ENDERLEIN Danzig Ber. bot.-zool. Ver. 28 (71-88).

Myopsocus muscosus sp. n. Japan, ENDERLEIN (254) Zool. Jahrb. Syst. 23.—*M. sumatranus* sp. n. Sumatra, ENDERLEIN Op. cit. 24 (87).

Nepticulomima gen. n. *Perientominae* (95), *sakuntala* (96), *essigkeana* (97), *chalcamelas* (100), Ceylon, spp. n., ENDERLEIN Spolia zeylan. 4.

Paramphientomum gen. n., *nietneri* Ceylon sp. n., ENDERLEIN (63) T.c.

Parempheria gen. n. (306) near *Psyllipsocus*, *sauteri* sp. n. Japan (307), ENDERLEIN Stettiner ent. Ztg. 67.

Pentaeladus gen. n., *eucalypti* sp. n. Australien, ENDERLEIN (408) Zool. Jahrb. Syst. 23.

Perientomum chrysargyrium (86), *greeni* (87), *ceyloanicum* (92), *argentatum* (88), *acutipenne* (94), Ceylon, ENDERLEIN Spolia zeylan. 4, spp. n.—*P. brasiliense* sp. n. Brasilien, ENDERLEIN Zool. Jahrb. Syst. 24 (88).—*P. mortuum* full characters, MEUNIER (58-60) figs. 1-6; Naturaliste 1906; referred to *Thylax*, ENDERLEIN (77) Spolia zeylan. 4.

Peripsocus quercicola sp. n. Japan, ENDERLEIN (316) Stettiner ent. Ztg. 67.

Polypsocinae = (*Ptilopsocinae*), ENDERLEIN (320) T.c.

Psocus kurokianus (241), *tokyoënsis* (245), spp. n., Japan, ENDERLEIN Zool. Jahrb. Syst. 23.—*P. lignicola* sp. n. Australien, ENDERLEIN (401) T.c.—*P. californicus*, *floridanus*, *confraternus*, N. America, (2), *posticatus* Mexico, *minusculus* Virginia, (3), BANKS Philadelphia Tr. Amer. ent. Soc. 32, spp. n.—*P. submarginatus* ab. n. *amphigerontoides* (317), *P. rufus* Walsh to *Pterodela* (319), *P. sparsus* Hag. and *P. virginianus* Banks to *Myopsocus*, ENDERLEIN Stettiner ent. Ztg. 67.

Reuterella helvimacula, male; GUERMONTREZ (57) pl. i Ent. Mag. London 42.

Scolopama gen. n. *Echinopsocinae*, *halterata* Ceylon sp. n., ENDERLEIN (110) Spolia zeylan. 4.

Seopsis gen. n. *Amphientomidae*, *vasantasena*, *metallops*, Ceylon, spp. n., ENDERLEIN (67) T.c.

Soa flaviterminata Ceylon, ENDERLEIN (79) T.c., sp. n.

Stenopsocus aphidiformis, *niger*, (249), *pygmaeus* (250), spp. n., Japan, ENDERLEIN Zool. Jahrb. Syst. 23.

Stimulopalpus gen. n. *Amphientomidae*, *japonicus* Japan sp. n., ENDERLEIN (65) Spolia zeylan. 4.

Syllysis erato (53), *ritusamhara* (57), Ceylon, ENDERLEIN T.c., spp. n.

Tineomorpha gen. n. *Amphientomidae*, *greeniana* Ceylon sp. n., ENDERLEIN (49) T.c.

Trieladus gen. n., *froggatti* sp. n. Australien, ENDERLEIN (410) Zool. Jahrb. Syst. 23.

MALLOPHAGA.

Mallophaga; the genera, NEUMANN Paris Bul. soc. zool. 1906 (54-60).

Some structural points; FULMEK, Wien Verh. zool.-bot. Ges. 1906 (639-641).

Unsere Kenntnis von den Mallophagen; MÜLLER Danzig Ber. bot.-zool. Ver. **28** (1-3).

New hosts for Galapagos Mallophaga, KELLOGG (315-324) Philadelphia Pa. Trans. Amer. Ent. Soc. **32** 1906.

Colpocephalum guiraensis (47) pl. ii f. 4, *burmeisteri* (48) f. 5, Argentina, KELLOGG New York J. Ent. Soc. **14**, **spp. n.**

Degeriella **nom. nov.** pro *Nirmus* Nitzsch. 1818, NEUMANN (60) Paris Bull. Soc. zool. **31**.

Dennyus **nom. nov.** pro *Nitzschia* Denny 1842, NEUMANN l.c.

Goniocotes abnormis **sp. n.** Argentina, KELLOGG (46) pl. ii f. 3 New York J. Ent. Soc. **14**.

Laemobothorium gypsis **sp. n.** Transvaal, KELLOGG (62) Ent. News **17**.—*L. caracaraensis* **sp. n.** Argentina, KELLOGG (48) pl. ii f. 6 New York J. Ent. Soc. **14**.

Lipeurus bergi (45) pl. ii f. 1, *argentinus* (46) f. 2, Argentina, KELLOGG T.c., **spp. n.**

Menopon beckii **sp. n.** Galapagos, KELLOGG (322) Philadelphia Trans. Amer. Ent. Soc. **32**.—*M. aegialitidis* **sp. n.**, DURRANT Ohio Nat. **6**.—*M. argentinus* **sp. n.** Argentina, KELLOGG (49) pl. ii f. 7 New York J. Ent. Soc. **14**.

Nirmus ridgwayi **sp. n.** Galapagos, KELLOGG (317) Philadelphia Trans. Amer. Ent. Soc. **32**.

Physostomum serratum, *sub hastatum* Colorado, DURRANT (528) Ohio Nat. **6**, **spp. n.**—*P. merulae* (35), *cherriei* (36), Colorado, DURRANT op. cit. **7**, **spp. n.**

Piagetella **nom. nov.** pro *Piagetia* Picaglia 1885, NEUMANN (60) Paris Bull. Soc. zool. **31**.

Taschenbergius **nom. nov.** pro *Eurymetopus* Taschenberg, NEUMANN l.c.

Production of caste, SANDIAS Riv. ital. sc. nat. **26** (121-123).

Influence of Protozoan parasites on development, BRUNELLI Roma Rend. Acc. Lincei **15** 1 (55-62).

Habits of fungus-growing Termites, DOFLEIN Ostasienfahrt, Kap. 21.

Termite als Pilzezüchter (ungarisch). GORKA Termt. Közl. Budapest **38** 1906 (467-469) 2 Fig.

Termitophilous Insecta; *vide* p. 143.

Anoplotermes iheringi **sp. n.** Peru (606), *reconditus* Silv. Königin und Arbeiter (607), HOLMGREN Zool. Jahrb. Syst. **23**.

Armitermes peruanus Peru (589), *neotenicus* Peru and Bolivia (571), **spp. n.**; *odontognathus* imago (567), HOLMGREN T.c.

Calotermes brouni forms described and figured, BROWN, **2**, (5-11) pl. ii.

Capritermes talpa **sp. n.** Peru (560), *opacus villosus* subsp. n. (558), HOLMGREN Zool. Jahrb. Syst. **23**.

Cornitermes cornutus Bolivia (549), *pilosus* (551), *labralis* (553), Peru, **spp. n.**, HOLMGREN T.c.

Cryptotermes **gen. n.** (336), *carifrons* **sp. n.** Florida (337), BANKS Ent. News **17**.

Cubitermes **gen. n.** for *Termes bilobatus* Hav., WASMANN (573) Biol. Centralbl. **26**.

Cylindrotermes **gen. n.**, *nordenskiöldi* **sp. n.** Bolivia, HOLMGREN (542-544) Zool. Jahrb. Syst. **23**.

Eutermes heteraspis Erythraea **sp. n.** (343), *terricola* winged forms (345), SILVESTRI Redia **3**.—*E. chaquimayensis* (575), *major* (578), *obscurus* (580), *llinquipatensis* (585), *minor* (590), *minimus* (582), *robustus* (587), *rotundiceps* (591), *rotundatus* (589), *velox* (595), *longirostratus* (598), *nigricornis* (600), *convexifrons* (602), **spp. n.**, Peru and Bolivia, HOLMGREN Zool. Jahrb. Syst. **23** (575-602).

Leucotermes tenuis imago soldier and worker, HOLMGREN (540-542) T.c.

Mirotermes macrocephalus **sp. n.** Bolivia, HOLMGREN (562) T.c.

TERMITIDAE.

The classification of *Termitidae*, HOLMGREN (523-529) Zool. Jahrb. Syst. **23**.

Rhinotermes taurus, imago, soldiers and workers (531–536), *marginalis* neoteinie ind. and imago (537–539), HOLMGREN T.c.

Spinitermes nigrostomus Bolivia (564), *gracilis* Peru (565), **spp. n.**, HOLMGREN T.c.

Termes chaquimayensis Bolivia **sp. n.** (547), *dirus* imago, soldiers, workers, HOLMGREN T.c.—*T. bellicosus*, two queens in one cell, SILVESTRI (342) Redia **3**.

Termopsis laticeps **sp. n.** Arizona, BANKS (337) Ent. News **17**.—*T. wroughtoni* = (*radcliffei* Radd. full description) DESNEUX Bombay J. Nat. Hist. Soc. **17** 293–298).

EMBIIDAE.

Zur Biologie der Embiiden. Neue Untersuchungen und Übersicht des Bekannten, mit Beiträgen über die Systematik und postembryonale Entwicklung mediterräner Arten. FRIEDERICH, Berlin Mitt. zool. Mus. **3** 1906 (213–240).

Structure of ovary, relations of *Embiidae*, BRUNELLI Roma Rend. Acc. Lincei **15** 1 (55–62).

Embia californica Los Angeles, BANKS (1) pl. i f. 1 Philadelphia Tr. Amer. ent. Soc., **sp. n.**

(*Oligotoma gurneyi*, Sydney, *O. agilis*, Wagga, N.S.W., FROGGATT Sydney N.S.W. Proc. Linn. Soc. **29** (672–673, pl. 20 f. 2–6) spp. n.)

PERLIDAE.

Classification and table of genera, BANKS (221–224) Canad. Entomol. **38**.

Dictyopterygidae; monograph, KLAPÁLEK Prag. Bull. Ac. Sci. Franç. Jos. **9** ii 1901.

Acroneuria pumila California, BANKS (335) Canad. Entomol. **38**, **sp. n.**

Alloperla **gen. n.** type *Perla imbecilla* Say, BANKS (175) Ent. News **17**.

Chloroperla, divided into *Isoperla* and *Alloperla*, BANKS T.c. (174–175).

Isoperla **gen. n.** type *Perla bilineata* Say, BANKS (175) T.c.—*I. sordida* California, *longiseta* Kansas, BANKS (337) Canad. Ent. **38**, **spp. n.**

Leuctra grandis N. Carolina, BANKS (338) T.c., **sp. n.**

Neoperla **nom. n.** for *Pseudoperla*, BANKS (223) T.c.

Paraperla **gen. n.** for *Perlinella frontalis*, BANKS (222) T.c.

Perla luctuosa California, BANKS (336) T.c., **sp. n.**—*P. carolinensis* (3), *valida* (4), N. America, BANKS Philadelphia Tr. Amer. ent. Soc. **32**, **spp. n.**

Perlesta **gen. n.** for *Perla placida* etc., BANKS (222) Canad. Entomol. **38**.

Perlodes **nom. n.** for *Dictyopteryx*, BANKS (223) T.c.

Perlomyia **gen. n.**, *collaris* **sp. n.** Brit. Columbia, BANKS (338) T.c.

Pteronarcys spinosa **sp. n.** Oregon, BANKS (8) Washington Proc. Ent. Soc. **8**.

EPHEMERIDAE.

Contributions à organisation des larves des Ephémérines. POPOVICI-BAZNOȘANU Arch. zool. Paris **5** Notes et revue (lxvi–lxxviii).

Vaisseaux sanguins caudaux chez les Ephémérines adultes. POPOVICI-BAZNOȘANU Paris C.-R. soc. biol. **60** (1049–1050).

Short notes of Polish *Epheméridae* (in Polish), *Polymitarcys virgo* etc., DZIEDZIELEWICZ Kosmos Lwów **31** (387–390).

†*Ephemeropsis middendorfi*, Sibirien Malm, HANDLIRSCH (604) Fossil Ins. sp. n.

|*Mesephemera* gen. n. for *Ephemera procera* Hag. (600), *weyenberghi* sp. n. Kalk Bayern (601), HANDLIRSCH T.c.

†*Paedepphemera* gen. n. (601), for *Ephemera multinervosa* Opp., *oppenheimi*, *schwertschlageri*, spp. n. Kalk Bayern, HANDLIRSCH (602) T.c.

†*Phacelobranthus* gen. n., *brauceri* sp. n. Sibirien Malm. HANDLIRSCH (604) T.c.

Rhitrogena henshii Kesmark, KLAPÁLEK (5) Prag Rozpr. Ceske Ak. 15, sp. n.

Tricorythus; COCKERELL and GILL, Boulder Univ. Colo. Stud. (135-137).

ODONATA.

Morphology and development of gonapophyses of *Odonata*, van der WEELE's Gravenhage Tijdschr. Ent. 49, (99-198) plates vi-viii.

Müller's work on Danish *Odonata*; PETERSÉN (251-254) Ent. Mag. London 42.

Prey of *Odonata* in Britain, POULTON (398-401) London Trans. ent. Soc. 1906.

Beitrage zur Metamorphose der Libellen. HAUPT Wochenschr. Aquarienkunde Braunschweig 3 (382-384).

Orthopteren- und Odonatenfauna des Gouvernement Novgorod (Russ.). GRIGORJEV St. Peterburg Ber. Süßwasserst. Naturf. Ges. 2 (65-68).

Nervuration of Permian *Odonata*, SELLARDS (249-258) Amer. J. Sci. 22.

Observations and experiments on dragon-flies in brackish water. OSBURN Amer. Nat. 1906 (395-399).

Copulation of *Odonata*; WILLIAMSON and CALVERT Ent. News 17 (143-148), pl. vii.

Oogenesis; MCGILL Zool. Jahrb. Abt. f. Anat. 23 (207-230) mit 5 Taf.

Changements de coloration chez les mâles, PICARD Paris Bull. soc. ent. 1906 (166-167).

Aeschna usambarica sp. n. Usambara, FÖRSTER (48) Mannheim Jahresber. Ver. Nath. 71-72.

†*Aeschnidiidae* fam. n. for *Aeschnidium* and *Urogomphus*, HANDLIRSCH (593) Fossil. ins.

†*Aeschnogomphus* gen. n. for *Anax intermedius* Hag., HANDLIRSCH (590) T.c.

Agrionemis pruinescens (191), *argentea* (192), Queensland, TILLYARD Sydney N.S.W. Proc. Linn. Soc. 31, spp. n.

Agrionoptera insignis? Australia, TILLYARD (485) T.c.

Alloneura solitarius (182), *coclestina* (184), Queensland, TILLYARD T.c., spp. n.

Anatya normalis. guttata and *theresia*; CALVERT (244-246) Biol. Centr.-Amer. Neuropt.

†*Anisophlebia* gen. n. *Isophlebiidae*, for *Isophlebia helle* Hag., HANDLIRSCH (584) Fossil. Ins.

†(*Anisozygopteron*) *geinitzianum* Lias Mecklenburg, HANDLIRSCH (470) T.c., sp. n.

†*Anomothemis* gen. n., *brevistigma* sp. n. Lias Mecklenburg, HANDLIRSCH (470) T.c.

†*Archithemis* gen. n. for *Diastatomma liasina* Gein., HANDLIRSCH (446) Fossil. Ins.

Argiolestes aureus Queensland, TILLYARD (178) Sydney N.S.W. Proc. Linn. Soc. N. S. Wales 31, sp. n.

Atoconeura leopardina sp. n. Usambara, FÖRSTER (38) Mannheim Jahresber. Ver. Natk. 71-72.

Austrogomphus arbustorum (547) f. 1, *arenarius* (549) f. 2, *prasinus* (552) f. 3, Queensland, TILLYARD Sydney Proc. Linn. Soc. N.S.W. 30, spp. n.

Brechmorhoga rivax sp. n. Centr. America (280) pl. viii figs. 46-48, CALVERT Biol. Centr.-Amer. Neuropt.

Cannaphila, species tabulated (239, 240); *ribex* Hag. pl. viii f. 35, (243); CALVERT T.c.

Ceriagrion glabrum Burm., an African sp. in Australia, TILLYARD Sydney N.S.W. Proc. Linn. Soc. **31** (191).

Crocothemis ikutana sp. n. Brit. Ostafrika, FÖRSTER (271) Mannheim Jahresber. Ver. Natk. **71-72**.—*C. erythraea* subsp. n. *pygmaea*, FÖRSTER T.c.—*C. erythraea* new for Australia TILLYARD, Sydney N.S.W. Proc. Linn. Soc. **31** (483) fig.

†*Diastotommidæ* fam. n. for *Diastotomma* Gieb., HANDLIRSCH (465) Fossil. Ins.

Diplacodes tetra subsp. n. *unimacula*, FÖRSTER (307) Wiesbaden Jahrb. Ver. Natk. **59**.—*D. trivialis* Ramb., *D. nebulosa* Fabr. new for Australia, TILLYARD Sydney N.S.W. Proc. Linn. Soc. **31** (484).

Disparoneura alba sp. n. N.O. Afrika, FÖRSTER (338) Wiesbaden Jahrb. Ver. Natk. **59**.—*D. simba* Brit. East Africa, MARTIN (509) Bul. Mus. Paris 1906, sp. n.

Dythemis maya Mexico (275) pl. viii f. 45, *cannacrioides* Centr. and S. America (276) figs. 43 and 44, CALVERT Biol. Centr.-Amer. Neuropt., sp. n.

†*Epallagidæ* fam. n., HANDLIRSCH (596) Fossil. Ins.

Ephidatia longipes Hag., *cubensis* Scudd., CALVERT (216, 217) Biol. Centr.-Amer. Neuropt.

Erythemis rufa. Ramb. new for Australia, TILLYARD Sydney N.S.W. Proc. Linn. Soc. **31** (483) fig.

Erythrodiplax; species characters, variation, synonymy (247-268), *E. ochracea* Burm. pl. ix f. 40, (255), *erichsoni* Kirby f. 42 (256); CALVERT, Biol. Centr.-Amer. Neuropt.—*Erythrodiplax berenice* and *Dythemis naeva*; CALVERT Ent. News **17** (99).

†*Euphaeopsis* gen. n. *Epallagidæ* for *Euphaea multinervis* Hag., HANDLIRSCH (596) Fossil. Ins.

Gomphidæ: taxonomy, FÖRSTER (322), Wiesbaden Jahrb. Ver. Naturk. **59**.

Hemistigmoides deceptor, FÖRSTER (304) T.c.

†*Heterothemis* gen. n., *germanica* sp. n. Lias Mecklenburg, HANDLIRSCH (468) Fossil. Ins.

†*Heterophlebiidæ* fam. n. for *Heterophlebia* Br. and W. (466), HANDLIRSCH T.c.

Heterophlebia geinitzi Lias Mecklenburg, Id. (467) T.c.

Hylaeagrion gen. n., *argentcolineatum* sp. n., FÖRSTER Insektenbörse Leipzig **23** (15-16).

Ischnura abyssinica (512), *elongata*, *urnifera*, (513), East Africa, MARTIN Bul. Mus. Paris 1906, spp. n.—*Ischnura*; taxonomy (334); *I. (Micronympha) schoana* sp. n. N. O. Afrika (332), FÖRSTER Wiesbaden Jahrb. Ver. Natk. **59**.—*I. fragilis* Queensland, TILLYARD (186) Sydney N.S.W. Proc. Linn. Soc. **31**, sp. n.

†*Isophlebiidæ* fam. n. for *Isophlebia* Hag., HANDLIRSCH (583) Fossil. Ins.

Lestes somalicus sp. n. N. O. Afrika, FÖRSTER (339) Wiesbaden Jahrb. Ver. Natk. **59**.—*L. rothschildi* East Africa, MARTIN (508) Bul. Mus. Paris 1906, sp. n.—*L. tenuissimus* (179), *paludosus* (181), Queensland, TILLYARD Sydney N.S.W. Proc. Linn. Soc. N. S. Wales **31**, spp. n.—*L. leda* life-history, TILLYARD (409-423) plates xxxii and xxxiii T.c.

Leucorhinia parvula Müll. = (*dubia* Lind.); *L. triedra* Müll. = (*caudalis* Charp.), PETERSÉN (252, 253) Ent. Mag. London **42**.

†*Liadothemis* gen. n., *hydrodictyon* sp. n. Lias Mecklenburg, HANDLIRSCH (469) Fossil. Ins.

Libellago auripes sp. n. Usambara, FÖRSTER (54) Mannheim Jahresber. Ver. Natk. **71-72**.—*L. caligata* = (*hartmanni* Först.), FÖRSTER (331) Wiesbaden Jahrb. Ver. Naturk. **59**.

Libellula luctuosa = (*basalis* Say), CALVERT Ent. News **17** (30).

Macrodiplex lycoris Selys new for Australia, TILLYARD Sydney N.S.W. Proc. Linn. Soc. **31** (484).

Macromia pallidinervis (317), *monoceros* (319), *bicornis* (320), N. O. Afrika, spp. n., FÖRSTER Wiesbaden Jahrb. Ver. Natk. **59**.—*M. tilyardi* (Martin) Australia, TILLYARD (491) Sydney N.S.W. Proc. Linn. Soc. **31**, sp. n.

Macrothemis inequinguis to *Brechmorhoga*, CALVERT (236) Biol. Centr.-Amer. Neuropt.

† *Malmagrion* **gen. n.** for *Agrion eichstaltense* Hag., HANDLIRSCH (599) Fossil. ins.

† *Mesogomphus* **gen. n.** for *Libellula petrificata* Hag. and *L. jurassica* Gieb., HANDLIRSCH (592) Fossil. ins.

Mesogomphus **gen. n.** Gomphidae, *nguelicus* (323), *bitarsatus* (325), **spp. n.**, N. O. Afrika, FÖRSTER Wiesbaden Jahrb. Ver. Natk. 59.

† *Mesuropetala* **gen. n.** for fossil *Uropetala*, HANDLIRSCH (588) Fossil. ins.

Microthyria dissocians Mexico and Porto Rico pl. ix figs. 19–21 (226), *schumanni* Central America pl. viii figs. 39 and 40 pl. ix f. 24 (227); CALVERT Biol. Centr.-Amer. Neuropt., **spp. n.**—*M. didyma* Selys pl. ix f. 12 (223), *atra* Martin figs. 13–15, *hageni* Kirb. figs. 16–18, (225), *ocellata* Mart. figs. 22 and 23 (226), *debilis* Hag. figs. 25–27 (229), *eximia* Kirb. figs. 28–30 (230), CALVERT T.c.

† *Nannogomphus* **gen. n.** (586), *bavariensis* **sp. n.** Kalk Bayern (587), HANDLIRSCH Fossil. ins.

Nehalennia speciosa, colour variation; Rts (159–165) Bern Mitt. schweiz. ent. Ges. 11.

Neocharis **gen. n.** (68), *cothurnata* **sp. n.** Surinam (70), FÖRSTER Mannheim Jahresber. Ver. Natk. 71–72.

Neocyta Kirby, merged in *Orthemis*; CALVERT (332) Biol. Centr.-Amer. Neuropt.

Neodythemis miraculosa **sp. n.** Usambara, FÖRSTER (31), Mannheim Jahresber. Ver. Natk. 71–72.

Nephropeltia flavifrons Karsch (as *Neothemis*) (230), *phryne* Perty pl. ix figs. 31–33 (231); CALVERT Biol. Centr.-Amer. Neuropt.

Orthemis ferruginea Fabr. pl. ix f. 34 (234); *O. biolleyi* Costa Rica pl. ix figs. 36 and 37 (237), *levis* Centr. and S. America figs. 38 and 39 (238), **spp. n.**; CALVERT T.c.

† *Orygethemis* **gen. n.**, *hageni* **sp. n.** Lias Cheltenham, HANDLIRSCH (469) Fossil. ins.

† *Parellthothemis* **gen. n.**, *dobbertinensis* **sp. n.** Lias Mecklenburg, HANDLIRSCH (470) T.c.

† *Petrothemis* **gen. n.**, *singularis* **sp. n.** Lias Mecklenburg, HANDLIRSCH (469) T.c.

† *Pheugothemis* **gen. n.** for *Libellula westwoodi* Phill., HANDLIRSCH (593) T.c.

Philonomon **gen. n.** Libellulidae (308), *erlangeri* N. O. Afrika (310) **sp. n.**, FÖRSTER Wiesbaden Jahrb. Ver. Natk. 59; and Mannheim Jahresber. Ver. Natk. 71–72.

Plathemis subornata, WILLIAMSON Ent. News 17 (351).

Podogomphus dendrohyrax **sp. n.** Usambara, FÖRSTER (326) Wiesbaden Jahrb. Ver. Natk. 59.

† *Protomyrmeleonidae* fam. n. for *Protomyrmeleon* Geinitz, HANDLIRSCH (471) Fossil. ins.

Pseudagrion acaciae Transvaal (56), *sikorae* Réunion (59), *sjustedti* Kamerun (62), *aleicorne* Madagaskar (64), **spp. n.**, FÖRSTER Mannheim Jahresber. Ver. Natk. 71–72.—*P. bicoerulans* East Africa MARTIN (511) Bul. Mus. Paris 1906, **sp. n.**—*P. ignifer* (188), *aureofrons* (189), Queensland, TILLYARD Sydney N.S.W. Proc. Linn. Soc. 31, **spp. n.**

† *Pseudocuphaea* **gen. n.** (596), for *Euphaea arcolata* Hag., *falsificata*, *obscura*, **spp. n.**, (597), Kalk Bayern, HANDLIRSCH Fossil. ins.

Pseudoleon superbus Hag., CALVERT (214–216) Biol. Centr.-Amer. Neuropt.

Rhythemis alcestis Queensland, TILLYARD (482) Sydney N.S.W. Proc. Linn. Soc. 31, **sp. n.**

Sapho iridipennis subsp. n. *occidentalis*, FÖRSTER (330) Wiesbaden Jahrb. Ver. Natk. 59.

Skiallagma **gen. n.** Agrionidae, *baueri* **sp. n.**, FÖRSTER Insektenbörse Leipzig 23.

Somatochlora; *semicircularis* group, WILLIAMSON Ent. News 17 (133–139) pls. v and vi.

† *Stelcopteron* **gen. n.** Stelcopteridae fam. n., *deichmulleri* **sp. n.** Kalk Bayern, HANDLIRSCH (598) Fossil. ins.

† *Stenophlebiidae* fam. n. for *Stenophlebia* Hag., HANDLIRSCH (581) T.c.

Sympetrum variegatum, Müll. = (*striolatum* (Tharp.) PETERSÉN (252) Ent. Mag. London 42.—*S. vulgatum* and *striolatum*

characters, LUCAS (xvii, xviii) figs. 1 and 2, London Proc. ent. Soc. 1906.—*S. nigra* Queensland, TILLYARD (489) Sydney N.S.W. Proc. Linn. Soc. **31**, sp. n.

†*Tarsophlebia major* (580), *longissima* (581), Kalk Bayern, HANDLIERSCH Fossil. Ins., spp. n.

†*Tarsophlebiidae* fam. n. for *Tarsophlebia* Hag., HANDLIERSCH (467) T.c.

Tauriphila azteca Mexico, CALVERT (298) Biol. Centr.-Amer. Neuropt., sp. n.

Termitophorba gen. n. *Libellulidae* (305), *rufina* sp. n. N. O. Afrika (306) pl. A f. 7, FÖRSTER Wiesbaden Jahrb. Ver. Natk. **59**; and Mannheim Jahresber. Ver. Natk. **71-72**.

Tetrathemis flavescens Kirby new to Australia, TILLYARD Sydney N.S.W. Linn. Soc. **31** (487) fig.

Thermagrion gen. n., *webbianum* sp. n. N. O. Afrika (336), FÖRSTER Wiesbaden Jahrb. Ver. Natk. **59**.

Tholymis citrina Hag. pl. ix figs. 9-11 (220), CALVERT Biol. Centr.-Amer. Neuropt.

Tramea incerta = (*Libellula basalis* Burm.) CALVERT (30) Ent. News **17**.

Trithemis erlangeri (312) pl. A f. 5, *ellenbeckii* (314) f. 6, spp. n., N. O. Afrika, FÖRSTER Wiesbaden Jahrb. Ver. Natk. **59**.—*T. pluvialis* sp. n. Usambara, FÖRSTER (30) Mannheim Jahresber. Ver. Natk. **71-72**.

†*Tupus* gen. n. *permianus* sp. n. Permian of Kansas, SELLARDS (249-258) Amer. J. Sci. **22**.

Umna declivium sp. n. Usambara, FÖRSTER (51) Mannheim Jahresber. Ver. Natk. **71-72**.

Uracis imbuta Burm. pl. ix f. 6 (218), *fastigiata* Burm. figs. 7 and 8 (219), CALVERT Biol. Centr.-Amer. Neuropt.

†*Urogomphus* gen. n. for *Aeschna gigantea* Germ. etc., HANDLIERSCH (594) Fossil. ins.

Urothemis sanguinea, designata pl. A figs. 1-3 (316), FÖRSTER Wiesbaden Jahrb. Ver. Natk. **59**.

Zygonyx komatina sp. n. Transvaal, FÖRSTER (25) Mannheim Jahresber. Ver. Natk. **71-72**.

Zyxomma petiolata description, habits, TILLYARD (480-482) Sydney N.S.W. Proc. Linn. Soc. **31**.

(n-9720 j)

The memoir to which the following entries of Odonata refer was recorded in the Zoological Record, 1901.

(*Davidius frulstorferi* MARTIN, Mission Pavie **3**, sp. n.)

(*Dysphaea basitincta* MARTIN, T.c. sp. n.)

(*Echo maxima* MARTIN, T.c. sp. n.)

(*Gomphidia krügeri* MARTIN, T.c. sp. n.)

(*Gomphus vermicularis* MARTIN, T.c. sp. n.)

(*Hagenius gigas* MARTIN, T.c. sp. n.)

(*Heterogomphus unicolor* MARTIN, T.c. sp. n.)

(*Macromia septima* (Selys in coll.) MARTIN, T.c. sp. n.)

(*Merogomphus* gen. n., *parvici* sp. n., MARTIN, T.c.)

(*Onychogomphus camelus* MARTIN, T.c. sp. n.)

(*Orolestes octomaculata* MARTIN, T.c. sp. n.)

(*Heterogomphus naninus* Tonkin, FOERSTER, Entomol. Ztg. Wien **24** 1905 (19), sp. n.)

(*Heterogomphus smithii* Selys, Rassenbildung, FOERSTER, Entomol. Ztg. Wien **24** 1905 (21).)

(*Ischnura heterosticta* Burm., dimorphism of female, TILLYARD Sydney N.S.W. Proc. Linn. Soc. **30** (302-306).)

(*Toaeschna* gen. n. (21), *fontinalis*, Tonkin, sp. n., (24), FOERSTER, Entomol. Ztg. Wien **24** 1905 (21).)

†FOSSILS, OF EXTINCT ORDERS.

The classification of Insects, recent and fossil, HANDLIERSCH, Die fossilen Insekten; 4 parts Leipzig, 1906. To be completed in eight parts. In recording this work we have followed the classification of the author in so far as it relates to extinct orders of Insects. These are therefore arranged apart; but the novelties pertaining to existing orders are placed in our Record under their appropriate headings. The others we now deal with below. For a translation of the portions of the work relating to American fossil insects vide HANDLIERSCH, **2**. A portion of this

translation appeared before the original ; hence some of the novelties are to be considered as named for the first time in the translation. Unfortunately the references to the original work are incomplete in the translation, so that many forms have the false appearance of being there described for the first time. A part of the translation may, however, have preceded in publication the corresponding part of the original work.

CARBONISCHE FORMATION.

Ordnung Palaeodictyoptera.

(*Paläodictyopteron*) *anglicanum* England (62) pl. viii f. 16, *mazonum*, *latipenne*, *virginianum*, (63), N. America, HANDLIERSCH Foss. Ins., spp. n.

Mammia gen. n., *alutacea* sp. n. N. America, HANDLIERSCH (68) T.c.

Titanodictya gen. n. for *Titanophasma jucunda* Scudd., HANDLIERSCH (68) T.c.

Anagesthes gen. n. for *Termes affinis* Gold., HANDLIERSCH (71) T.c.

Sagenoptera gen. n. for *Termes formosus* Gold., HANDLIERSCH (72) T.c.

Acanthodictyon gen. n. for *Termes decheni* Gold., HANDLIERSCH l.c.

Eumecopectera gen. n. for *Termes laxus*, HANDLIERSCH (73) T.c.

Stilbocrocis gen. n. for *Termes heeri* Gold., HANDLIERSCH (74) T.c.

Dictyoneurula gen. n. for *Dictyoneura gracilis* Kl., with *kliveri* sp. n. Rheinland, HANDLIERSCH (75) T.c.

Gegenemene gen. n. for *Dictyoneura sinuosa*, HANDLIERSCH (76) T.c.

Dictyoneura macrophlebia (Gold.) Rheinland, HANDLIERSCH (78) T.c., sp. n.

Peromapteridae fam. n. for *P. filholi* Brongn., HANDLIERSCH (79) T.c.

Megaptilidae fam. n. for *M. blanchardi* Brongn., HANDLIERSCH (80) T.c.

Hypermegethes gen. n. *Hypermegethidae* fam. n. *schucherti* sp. n. N. America, HANDLIERSCH (81) T.c.

Mecynopteridae fam. n. for *M. splendida* Handl., HANDLIERSCH (82) T.c.

Lithomantidae fam. n. for *L. carbonaria* Woodw. and *Lithosialis* Scudd., HANDLIERSCH (82) T.c.

Hadroneuria gen. n. for *Gryllacris bohemia* Now., HANDLIERSCH (84) T.c.

Eurytaenia gen. n., *virginiana* sp. n. N. America, HANDLIERSCH (86) T.c.

Eurythmopteryx gen. n., *antiqua* sp. n. N. America, HANDLIERSCH (86) T.c.

Propaligenia gen. n. for *Pal. feistmanteli* Fritsch, HANDLIERSCH (86) T.c.

Catadyesthus gen. n. for *Aeridites prisceus* Andr., HANDLIERSCH (87) T.c.

Lycocercus gen. n. *Lycocercidae* fam. n. for *Dictyoneura goldenbergi* Brongn., with *brongniarti* sp. n. France, HANDLIERSCH (90) T.c.

Homoiopteridae fam. n., HANDLIERSCH (91) T.c.

Graphiptiloides gen. n. for *Graphiptilus williamsoni* Brongn., HANDLIERSCH (92) T.c.

Homoeophlebia gen. n. for *Homoioptera gigantea* Agnus, HANDLIERSCH (93) T.c.

Ileolus gen. n. *Ileolidae* fam. n. (94), *providentiae* sp. n. Rhode island (95), HANDLIERSCH T.c.

Breyeriidae fam. n. for *Breyeria borinensis* de Borre, HANDLIERSCH (95) T.c.

Megaptiloides gen. n. for *Megaptilus brodiei* Brongn., HANDLIERSCH (97) T.c.

Fouqueidae fam. n. for *Fouquea* Brongn., HANDLIERSCH (98) T.c.

Graphiptilidae fam. n. with *Apopappus* gen. n. for *Spilaptera guernei* Brongn., HANDLIERSCH (100) T.c.

Epitethe gen. n. for *Spilaptera meunieri* Brongn., HANDLIERSCH (103) T.c.

Homaloneurina gen. n. for *Homaloneura bomieri* Brongn., HANDLIERSCH (106) T.c.

Homaloneurites gen. n. for *Homaloneura joannae* Brongn., HANDLIERSCH (107) T.c.

Polycreagra gen. n. *Polycreagridae* fam. n. (110), *elegans* sp. n. N. America (111), HANDLIERSCH T.c.

Eubleptus gen. n. *Eubleptidae* fam. n. (111), *danielsi* sp. n. N. America (112), HANDLIERSCH T.c.

Metropator gen. n. *Metropatoridae* fam. n., *pusillus* sp. n. N. America, HANDLIERSCH (112) T.c.

- Brodiidae* fam. n. for *Brodia* Scudd., HANDLIRSCH (113) T.c.
- Paoliidae* fam. n. for *Paolia* Sm., HANDLIRSCH (114) T.c.
- Stygne* gen. n. *Stygnidae* fam. n. (115), *roemeri* sp. n. Silesia (116), HANDLIRSCH T.c.
- Aenigmatodes* gen. n. *Aenigmatodidae* fam. n., *danielsi* sp. n. N. America, HANDLIRSCH (116) T.c.
- Paramegaptilus* gen. n. for *Megaptilus scudderi* Brongn., HANDLIRSCH (118) T.c.
- Breyeriodes* gen. n., *kliveri* sp. n. Rheinland, HANDLIRSCH (118) T.c.
- Camptoneura* gen. n., *reticulata* sp. n. N. America, HANDLIRSCH (118) T.c.
- Orthogonophora* gen. n., *distincta* sp. n. N. America, HANDLIRSCH (119) T.c.
- Bathytaptus* gen. n., *falcipennis* sp. n. N. America, HANDLIRSCH (119) T.c.
- Palaiotaptus* gen. n., *mazonus* sp. n. N. America, HANDLIRSCH (119) T.c.
- Leipsanon* gen. n., *reticulatum* sp. n. Belgium, HANDLIRSCH (120) T.c.
- Pseudopaolia* gen. n. for *Paolia laeoana* Scudd., HANDLIRSCH (120) T.c.
- Parapaolia* gen. n. for *Paolia superba* Scudd., HANDLIRSCH (121) T.c.
- Pseudohomothetus* gen. n. for *Hom. crutus* Matth., HANDLIRSCH (121) T.c.
- Pseudopalingenia* gen. n. for *Pal. feistmanteli* Fritsch, HANDLIRSCH (124) T.c.
- Pseudofouquea* gen. n. for *F. cambrensis* All., HANDLIRSCH (125) T.c.
- (*Paläodietyoapteron*) *mazonum*, *latipenne*, *virginianum* spp. n., N. America, HANDLIRSCH, Washington U.S. Nat. Mus. Proc. 29 (688).
- (*Paläodietyoapteron*) *higginsii* sp. n. England, HANDLIRSCH (125) Fossil. Ins.
- Ordnung *Mixotermioidae* Ord. n. for *Mixotermes* and *Geroneura*, HANDLIRSCH (127) T.c.
- Ordnung *Reculoidea* Ord. n. (127) *Reculidae* fam. n., *Recula* gen. n., *parra* sp. n. Sachsen (128), HANDLIRSCH T.c.
- Ordnung *Protorthoptera* ord. n.
- Spaniodera* gen. n. *Spanioderidae* fam. n., *ambulans* sp. n. N. America, HANDLIRSCH (129) T.c.
- Gyrophlebia* gen. n., *longicollis* sp. n. N. America, HANDLIRSCH (129) T.c.
- Camptophlebia* gen. n. for *Dictyoneura clarinervis* Mel., HANDLIRSCH (130) T.c.
- Paracheliphlebia* gen. n. for *C. extensa* Mel., HANDLIRSCH (131) T.c.
- Metacheliphlebia* gen. n. for *C. elongata* Scudd., HANDLIRSCH (132) T.c.
- Disconurites* gen. n. for *Di. rigidus* Scudd., HANDLIRSCH (133) T.c.
- Metryia* gen. n., *analisis* sp. n. N. America, HANDLIRSCH (133) T.c.
- Ischnoneuridae* fam. n. for *Ischnoneura* Brongn., HANDLIRSCH (133) T.c.
- Cnemidolestes* gen. n. *Cnemidolestidae* fam. n., for part of *Protophasma*, HANDLIRSCH (135) T.c.
- Prototettigidae* fam. n. for *Prototettix* Gieb., HANDLIRSCH (135) T.c.
- Homalophlebiidae* fam. n. (136) T.c.
- Parahomalophlebia* gen. n. for *H. courtini* Brongn., HANDLIRSCH (137) T.c.
- Protokollariidae* fam. n. for *Protokollaria* Brongn., HANDLIRSCH (137) T.c.
- Pachytylopsidae* fam. n. for *Pachytylopsis* de Borre, HANDLIRSCH (129) T.c.
- Thoronysis* gen. n. for *Oedischia ingbertensis*, Id. T.c.
- Laspeyresidae* fam. n. for *Laspeyresia* Schl., HANDLIRSCH (140) T.c.
- Caloneuridae* fam. n. for *Caloneura* Brongn. Id. l.c.
- Sthenaropodidae* fam. n. for *Sthenaropoda* Brongn. Id. (141).
- Oedischiidae* fam. n. for *Oedischia* Brongn., HANDLIRSCH (142) T.c.
- Progenetomum* gen. n. *carbonis* sp. n. N. America, Id. (145) T.c.
- Omaliidae* fam. n. for *Omalia* Van Beu., Id. (145) T.c.
- Geraridae* fam. n. for *Gerarus* Scudd., Id. (146) T.c.
- Gerarus longus*, *danielsi*, (147), *angustus* (148), N. America, Id. T.c., spp. n.
- Geraroides* gen. n. for *Diceoneura maxima* Mel., HANDLIRSCH (704) Washington U.S. Nat. Mus. 29.
- Sthenaroceridae* fam. n. for *Sthenarocera* Scudd., Id. (149) Fossil. Ins.

Ordnung **Protoblattoidea** ord. n.,
HANDLIERSCH (151) T.c.

(*Protoblattoidea*) *sellardsi*, minor, N.
America, **spp. n.**, Id. (152) T.c.

Stenoneuridae fam. n. for *Stenoneura*
Brongn., Id. l.c.

Stenoneurites **gen. n.** for *maximi*
Brongn., Id. (153) T.c.

Eoblatta **gen. n.** *Eoblattidae* fam. n.
for *Leptoneura robusta* Brongn., Id. (155)
T.c.

Oryetoblattinidae fam. n. (155) T.c.

Oryetoblattina americana, *latipennis*,
N. America, Id. (157) T.c., **spp. n.**

Blattinopsis anthracina N. America,
HANDLIERSCH (160) T.c., **sp. n.**

Glaphyrophlebia **gen. n.**, *pusilla* **sp. n.**
N. America, Id. (161) T.c.

Aetophlebidae fam. n. for *Aetophlebia*
Scudd., Id. T.c. (163).

Cheliphlebidae fam. n. for *Cheliphle-*
bidae Scudd., Id. T.c. (164).

Eucaenidae fam. n. (164), *Eucaenus*
rotundatus **sp. n.** (165), Id. T.c.

Gerapompidae fam. n. for *Gerapompus*
Scudd., *G. schucherti* **sp. n.** N. America,
Id. (166) T.c.

Adiphlebidae fam. n. for *Adiphlebia*
Scudd., Id. T.c. (167).

Anthracothremmidae fam. n. for *An-*
thracothremma Scudd., Id. T.c. (169).

Megalometer **gen. n.**, *lata* **sp. n.** N.
America, HANDLIERSCH (169) T.c.

Pseudetoblattina **gen. n.** for *Etblat-*
tina reliqua Scudd., Id. (169) T.c.

Agogoblattina **gen. n.** for *Oryetoblat-*
tina occidua Scudd., HANDLIERSCH (170)
T.c.

Polyetes **gen. n.**, *fureifer* **sp. n.** N.
America, Id. T.c. (170).

For Fossil BLATTOIDEA vide p. 440
BLATTIDAE.

Ordnung **Hadentomoidea**, Ord. nov.

Hadentomum **gen. n.**, *americanum*
sp. n., N. America, HANDLIERSCH (693)
Washington U.S. Mus. Proc. 29.

Ordnung **Hapaloapteroidea**, Ord. nov.

Hapaloptera **gen. n.**, *gracilis* **sp. n.** N.
America, HANDLIERSCH (694) Washington
U.S. Nat. Mus. Proc. 29.

Ordnung **Protodonata**.

Protagrionidae fam. n. for *Protagrion*,
HANDLIERSCH (304) Fossil. Ins.

Meganeuridae fam. n. for *Meganeura*
Brongn., Id. (306) T.c.

Meganeura brongniarti (308), *fafnir*
(309), Commentry, Id. T.c., **spp. n.**

Palacotherates **gen. n.**, *P. pennsylva-*
nicus **sp. n.** N. America, HANDLIERSCH
(690) Washington U. S. Nat. Mus. 29.

Meganeurula **gen. n.** for *Meganeura*
sclysii Brongn., HANDLIERSCH (310) T.c.

Paralogidae fam. n. for *Paralogus*
aeschnoides Scudd., Id. (310) T.c.

Ordnung **Protephemeroidea** Ord. n.

Triplosoba **gen. n.** *Triplosobidae* fam.
n., for *Blanchardia pulchella* Brongn.,
HANDLIERSCH (312) Fossil. Ins.

Ordnung **Megasecoptera**.

Diaphanoptera fam. n. for *Diapha-*
noptera Brongn. and *Campyloptera*
Brongn., HANDLIERSCH (315) Fossil. Ins.

Mischopteridae fam. n., Id. (316) T.c.

Rhaphidiopsidae fam. n. for *Rhaphi-*
diopsis Scudd., Id. (319) T.c.

Adiaphtharsia **gen. n.**, *A. ferrea*
sp. n. N. America, HANDLIERSCH (691)
Washington U. S. Nat. Mus. 29.

Ordnung **Protoblattoidea**, Permische
Formation.

Oryetomylabris **gen. n.** for *Oryetoblat-*
tina oblonga Deichm., HANDLIERSCH (346)
Fossil. Ins.

Pseudofulgora **gen. n.** for *Fulgora*
ebersi Dohrn, Id. (347) T.c.

Ordnung **Protohemiptera** Ord. n. for
Eugereon boeckingi Dohrn, HANDLIERSCH
(387) Fossil. Ins.

Ordnung **Palaeohemiptera**.

Prosbolidae fam. n. for *Prosbola*
Handl., HANDLIERSCH (390) T.c.

Scytinopteridae fam. n. for *Scytino-*
ptera Handl., Id. (391) T.c.

Dysmorphoptila **gen. n.** *Dysmorpho-*
ptilidae fam. n., for *Belostoma liasina*
Gieb., HANDLIERSCH (492) T.c.

Incertae sedis.

Parahaplophlebiium **gen. n.** for *Haplo-*
phlebiium longipennis Scudd., HAND-
LIERSCH (803) Washington U. S. Nat. Mus.
Proc. 29.

Pseudopolyernus **gen. n.** for *Polyernus laminarum* Scudd., HANDLIERSCH (803) Washington U. S. Nat. Mus. Proc. **29**.

Pseudogerarus **gen. n.**, *scudderi* **sp. n.** N. America, HANDLIERSCH (804) T.c.

Axiologus **gen. n.**, *thoracicus* **sp. n.** N. America, HANDLIERSCH (805) T.c.

Endoiasmus **gen. n.**, *reticulatus* **sp. n.** N. America, HANDLIERSCH (805) T.c.

Archimastax **gen. n.**, *americanus* **sp. n.** N. America, HANDLIERSCH (806) Washington U. S. Nat. Mus. Proc. **29**.

Archaeologus **gen. n.**, *falcatus* **sp. n.** N. America, HANDLIERSCH (807) T.c.

(BORELLI, Alfredo. Sur quelques Forficules des Pyrénées. Feuille jeunes natural., Paris, (ser. 4), **35**, 1905, (49-51, a. fig.).)

(GADEAU DE KERVILLE, Henri. Note sur les fonctions de la pince des Insectes Orthoptères de la famille des Forficulidès. Paris, Bul. Soc. zool., **30**, 1905, (53-63, av. fig.).)

Ancistrogaster festae Ecuador, BORELLI Torino Boll. Mus. **21** No. 528, **sp. n.**—*A. mixta* (12), *alfari* (14), *perdita* (16), Costa Rica, BORELLI Torino Boll. Mus. **21** No. 531, **spp. n.**

Anisolabis annandalei **sp. n.** India, BURR (389) Calcutta J. As. Soc. Beng. **2**.—*A. ambigua* (3), *armata* (4), Costa Rica, BORELLI Torino Boll. Mus. **21** No. 531, **spp. n.**—*A. mauritanica* l'accouplement et les œufs, GADEAU Paris Bull. soc. ent. **1906** (252-253).

Apterygida cagnii (3), *cavallii* (4), Ruwenzori, BORELLI Torino Boll. Mus. **21** No. 541, **spp. n.**

Chaetospania escalerae Biafra, BURR (294) Madrid Mem. Soc. esp. Hist. Nat. **1**, **sp. n.**—*C. pittarellii* Madagascar, BORELLI Torino Boll. Mus. **21** No. 533 (1-2) 1 fig.—*C. tricuspidata* **sp. n.** New-Guinea, BURR Nova Guinea **5** Livr. **1** (9-10).

Chelisoches annulatus **sp. n.** New Guinea, BURR L.c.

Forficula mesmini Caucase, AZAM (81) Paris Bull. Soc. entom. **1906**, **sp. n.**—*F. auricularia* and *Labidura riparia*, gynandromorphs, PAOLI Boll. Soc. Zool. ital. **6** (203-206).—*F. auricularia*, spermatogenesis, ZWEIGER Zool. Anz. **30** (220-226) and *F. auricularia* Spermatogenesis, ZWEIGER Jenaische Zs. Natw. **42** (143-172) 4 Taf.

Labia biolleyi (6), *tristani* (8), *conspicua* (9), Costa Rica, BORELLI Torino Boll. Mus. **21** No. 531, **spp. n.**—*L. trinitatis* (136), *insularis*, *modesta*, (137), *pietipennis* (138), Trinidad, BRUNER New York J. Ent. Soc. **14**, **spp. n.**

Labidura riparia Pall. var. *dumonti* nov. var., AZAM (80) Paris Bull. Soc. entom. **1906**.

Labidurodes coloratus **sp. n.** New-Guinea, BURR Nova Guinea **5** Livr. (9-10).

ORTHOPTERA.

Orthopteren- und Odonaten fauna des Gouvernement Novgorod. (Russ.) GRIGORJEV St. Peterburg Ber. Süswasserst. Naturf. Ges. **2** (65-68).

Respiratory responses in the grasshopper to variations in pressure. ROLLER Lawrence Kan. Univ. Sci. Bull. **3** (209-221).

A Malpighian tube within the heart is accidental; RILEY Ent. News **17** (113-114) with text-fig.; also CALVERT T.c (179).

Tympanal organs, *Acridiodea*, *Locus-todea*, *Gryllodea*, morphology and histology, SCHWABE Zoologica Heft 50 (vi + 154) 5 plates.

FORFICULIDAE.

8 Japanese species of *Forficulidae* described, of which 2 are new. MATSUMURA, S[chonen], und SHIRAKI, T. Sapporo, Journal of Sapporo Agricultural College **2** 1905 (75-86).

Five new species described and figured, Japan, SHIRAKI Sapporo Trans. Sapporo Nat. Hist. Soc. **1** (91-96) plate.

Mode of increase of antennal segments; TERRY (50) Honolulu Proc. Hawai. ent. Soc. **1**.

Neolobophora borellii Mexico, BURR (114) Ent. Mag. London **42**, sp. n.

Opisthocosmia roceatii Ruwenzori, BORELLI (2) Torino Boll. Mus. **21** No. 541, sp. n.

Pseudochelidura schmitzii Madeira, BORELLI T.c. No. 520 (1-3) 1 fig.—*P. biolleyi* Costa Rica, BORELLI (18) T.c. No. 531, sp. n.

Pyragra minor Costa Rica, BORELLI (1) T.c. No. 531, sp. n.

Sparatta pulchra Costa Rica, BORELLI (11) T.c. No. 531, sp. n.

Spongiphora robur Biafra, BURR (293) Madrid Mem. Soc. esp. Hist. Nat. **1**, sp. n.—*S. aloysii-sabandiae* Ruwenzori, BORELLI (1) Torino Boll. Mus. **21** No. 541, sp. n.

HEMIMERIDAE.

Hemimerus talpoides, habitat, habits, BOUVIER Paris Bull. soc. ent. **1906** (170-171);—habits, VOSSELER Pflanze Tanga **2** (63-64).

BLATTIDAE.

Types of *Blattidae* described by Francis Walker, and now in the Hope Museum, Oxford; SHELFORD (487-509) London Trans. ent. soc. 1906. Gives the taxonomy and synonymy of 77 species.

Australian *Blattidae*; FROGGATT Agric. Gaz. Sydney N.S.W. **17** (440-447) 1 pl.

Viviparity in *Blattidae*, SHELFORD (509-514) London Trans. ent. Soc. 1906.

Drüsentaschen am Abdomen von *Periplaneta orientalis* und *Phyllodromia germanica*, OETTINGER Zool. Anz. Leipzig **30** (338-349).

Mitteldarmanlage *Phyllodromia germanica*, NUSBAUM und FULIŃSKI Zool. Anz. **30** (362-381).

Geological history, SELLARDS Pop. Sci. Month. **68** (244-250).

†Haben die paläozoischen Blattiden im Hinterflügel ein Praecostalfeld? SCHLECHTENDAL Zs. wiss. Insektenbiol. Husum **2** 1906 (47-50).

Allaeta parva Borneo, SHELFORD (268) London Trans. ent. soc. 1906, sp. n.

Anaplecta maculata (240) pl. xv f. 7, *zeylanica* f. 8, *thwaitesi* f. 9, (241), Ceylon, *malayensis* f. 10, *obscura* f. 12, Malay penins., *borneensis* Sarawak f. 11, (242), *pulchra* Fernando Po, *dahomensis* Africa pl. xvi f. 2, (244), *brunneri* f. 1, *parida* f. 3, (245), *fusca* f. 4, *varipennis* figs. 5 and 6, Ecuador, (246), *chrysoptera* Amazons pl. xvi f. 7; SHELFORD T.c., spp. n.—*A. pulchella* sp. n. Demerara, REHN (262) Philadelphia Proc. Acad. **58**.

Anaplectoidea gen. n. near *Anaplecta*, (247), *nitida* sp. n. Batchian pl. xvi figs. 8 and 9 (248), SHELFORD London Trans. ent. soc. 1906.

Aphlebia inusitata sp. n. Bahamas. REHN (113) New York Bull. Amer. Mus. **22**.

Areolaria signata Borneo, SHELFORD (273) London Trans. ent. soc. 1906, sp. n.

(*Blaberus biolleyi* REHN, Philadelphia, Pa. Proc. Acad. Nat. Sci. **57**, sp. n.)

Blatta (Stylopiga) meridionalis sp. n. Trinidad, BRUNER (141) New York J. Ent. Soc. **14**.—*B. orientalis*, Pharmacologie MICHAŁSKI Kraków Rozpr. Akad. **45** B (356-388) 11 fig.—*B. circumducta* and *longiuscula* Walk. cf. *Escala*, *B. xanthophila* Walk. cf. *Pseudothyrsocera*; *B. decorata* Serv. cf. *Homalosilpha*; *B. brasiliensis* Fabr. cf. *Epilampra*.

Blattella inexpectata sp. n. Demerara, REHN (268) Philadelphia Proc. Acad. **58**.

Corydia coerulea Borneo, SHELFORD (272) London Trans. ent. Soc. 1906, sp. n.

Cryptocercus spadiceus sp. n. Japan, SHIRAKI (32) pl. ii f. 2 Annot. Zool. Jap. **6**.

Ectobiinae and *Phyllodromiinae* defined and recomposed, SHELFORD (231-234) London Trans. ent. Soc. 1906.

Epilampra guttigera Japan (21) pl. ii f. 7, *dimorpha* Ogasawara Ins. (22) f. 6, SHIRAKI Annot. Zool. Jap. **6**, spp. n.—*E. saravaccensis* (268), *goliath*, *miranda*, (269), *flavomarginata* (270), Borneo; SHELFORD London Trans. ent. Soc. 1906, spp. n.—*E. varia* Walk., SHELFORD (500) pl. xxx f. 9 London Trans. ent. Soc. 1906.—*E. brasiliensis* Fabr. (as *Blatta*) type described (277), *burmeisteri* Guér. for *maculicollis* Brunner nec Serv. (276),

SHELFORD T.c. — *E.*, aquatic species, modification; ANNANDALE Calcutta J. As. Soc. **2** (105).

Escala **gen. n.** near *Theganopteryx* (238), for *Blatta circumducta* Walk., figured pl. xv f. 4, *longinsecula* Walk. f. 5, (239); also *E. insignis* **sp. n.** Australia (240) pl. xv f. 6; SHELFORD London Trans. ent. Soc. 1906.

†*Etoblattina fontanensis* **sp. n.**, Houillers supérieur Fontanes (Gard.) MEUNIER Paris Bul. soc. ent. **1906** (82-85) av. fig.

Eurycotis bahamensis **sp. n.** Bahamas, REHN (110) New York Bull. Amer. Mus. **22**.

Hemithyrsoecra; composition, *H. histrio* synonymy (238), *lateralis* Walk. = (major Br.) titillator pl. xv f. 2; *H. ignobilis* Khasia hills **sp. n.** (238); SHELFORD London Trans. ent. Soc. 1906.

Homalopteryx adusta, Walk. (as *Epilampra*), SHELFORD (497) pl. xxx f. 6, T.c.

Homalosilpha decorata Serv. (as *Blatta*) from Borneo, figured pl. xiv f. 8, SHELFORD (270), T.c.

Homopteroidea **gen. n.** near *Latindia*, *nigra* **sp. n.** Borneo, SHELFORD (274) pl. xvi figs. 13 and 14 T.c.

Hormetica subcineta, Walk. (as *Brachycola*), SHELFORD (507) pl. xxx f. 8 T.c.

Iscnoptera excavata pl. xvi f. 11, (265), *montis* f. 10 (266), Borneo, SHELFORD T.c., **spp. n.**—*I. nyctiboroides* **sp. n.** Demerara, REHN (266) Philadelphia Proc. Acad. **58**.

Mallotoblatta obscura Madras, SHELFORD (234) London Trans. ent. Soc. 1906, **sp. n.**

Miroblatta **gen. n.** near *Archiblatta*, (271), *petrophila* **sp. n.** Borneo pl. xiv f. 4 (272); SHELFORD T.c.

Opisthoplatia maculata **sp. n.** Formosa, SHIRAKI (32) pl. ii f. 4 Annot. Zool. Jap. **6**.

Paranauphoeta atra Borneo, *affinis* Bhutan, SHELFORD (275) London, Trans. ent. Soc. 1906, **spp. n.**

Periplaneta picea (26) pl. ii f. 3, *striata* (27) f. 5; SHIRAKI Annot. Zool. Jap. **6**, **spp. n.**—*P. bioculata* (de Sauss.) India, PAIVA (346) Calcutta J. As. Soc. Beng. **2**, **sp. n.**

Phyllodromia treitliana, *arundinicola*, (377), *angustefasciata* (378), Nile, WERNER Wien Sitz.Ber. Ak. **114** abt. 1, **spp. n.**—*P. pallidiola* **sp. n.**, SHIRAKI Annot. Zool. Jap. **6** (20) pl. ii. f. 1.—*P. infusca* (139), *P. (?) binotata* (140), Trinidad, BRUNER New York J. Ent. Soc. **14**, **spp. n.**—*P. contingens*, Walk. (as *Blatta*), SHELFORD (490) pl. xxx f. 4 London Trans. ent. Soc. 1906.—*P. laticeps* Walk. and *laticaput* Br. to *Pseudophyllodromia*, SHELFORD T.c. (267).—*Pinaconota obliqua*, Walk. (as *Blatta*), SHELFORD (496) pl. xxx f. 5, T.c.

Polyphaga aegyptiaca, Lebensweise, FAUSSEK St. Petersburg Zap. Russ. Geogr. Obsč. **27** (1-192).

Pseudectobia bipunctata Walk. (as *Blatta*), SHELFORD (495) pl. xxx f. 3 London Trans. ent. Soc. 1906.

Pseudomops; species and synonymy, (252-262), table (263-265); *neglecta* Brazil (256), *burri* Ecuador (257) pl. xiv f. 1, *magna*, *albostrata*, (259), *bicolor* (260) pl. xvi f. 12 and pl. xiv f. 7, Ecuador, **spp. n.**; SHELFORD T.c.

Pseudophyllodromia pulcherrima Borneo (266) pl. xiv f. 3, SHELFORD London Trans. ent. Soc. 1906, **spp. n.**; cf. also *Phyllodromia*.—*P. prona* **sp. n.** Demerara, REHN (264) Philadelphia Proc. Acad. **58**.

Pseudothyrsoecra **gen. n.** (250) for part of *Pseudomops* viz. *pica* and *senti-gera* Walk. and *Blatta xanthophila* Walk., also *P. montana* Borneo, *ruficollis* Penang pl. xiv f. 6, **spp. n.**; SHELFORD London Trans. ent. Soc. 1906.—*P. xanthophila*, Walk. (as *Blatta*) SHELFORD (489) pl. xxx figs. 1, 2, T.c.

Salganea humeralis Philippines, CAU-DELL (136) Canad. Entomol. **38**, **sp. n.**

Sphecochila **gen. n.** near *Attaphila*, (515), *polybium* **sp. n.** Fr. Guiana with *Polybia* (518) pl. xxx figs. 10-12, SHELFORD London Trans. ent. Soc. 1906.

†*Stantonina* **gen. n.** *cretacea* **sp. n.** cretaceous of Montana, HANDLIERSCH Washington D.C. Smithsonian Inst. U. S. Nation. Mus. Proc. **29** (655-656) with fig.

Stenoblatta parallela Walk., SHELFORD (502) pl. xxx f. 7 London Trans. Ent. Soc. 1906.

Theganopteryx; various notes, *T. senegalensis* and *Blatta amoena* Walk., *aethiopica* titillator pl. xv f. 3, (235-237)

bourieri Madagascar, *gambiensis* Africa, **spp. n.**, (236); SHELFORD, T.c.

Thyrsocera; redefined (249), the species (250), *T. speciosa* pl. xiv f. 5, SHELFORD T.c.

†Fossil Blattidae.

The following new families genera and species of Blattoidea are described by HANDLIRSCH from Carboniferous and Permian deposits: the original descriptions are to be found in two places, viz. Fossil. Ins. and P. U. S. Mus. 29.

(Blattoidea) *schucherti*, *sellardsi*, *melanderi*, (179), *schuchertiana*, *sellardsiana*, (180), N. America, HANDLIRSCH Fossil. Ins., **spp. n.**

Archimyliacridae fam. n., (181).

Palaeoblatta gen. n. for *Archimyliacris paucinerva* Scudd., (182).

Aphthoroblattina gen. n. for *Etblattina johnsoni* etc., (183).

Parclthoblatta gen. n. for *Archimyliacris belgica* Handl., (183).

Polyetoblatta gen. n., *eulopteryx* **sp. n.** N. America, (184).

Dictyoblatta gen. n. for *Blattina dresdensis* Geinitz, (185).

Kinklidoblatta gen. n. for *Etblattina lesquercuxii* Scudd., (185).

Kinklidoptera gen. n. (185), *vicina* **sp. n.** Böhmen (186).

Amorphoblatta gen. n., *brongniarti* **sp. n.** France, (186).

Adeloblatta gen. n. for *Progonoblattina columbiana* Scudd., (186).

Mesitoblatta gen. n. (187), *brongniarti* **sp. n.** France (188).

Sooblatta gen. n. for *Blattina lanecolata* Sterz., (188).

Elaphroblatta gen. n. for *Anthracoblattina ensifer* Brongn., (190).

Plagioblatta gen. n., *campbelli* **sp. n.** N. America, (191).

Schizoblatta gen. n. (191), *alutacea* **sp. n.** N. America (192).

Hesperoblatta gen. n., *abbreviata* **sp. n.** France, (192).

Archoblattina scudderi N. America, (193), **sp. n.**

Gyroblatta gen. n. for *Etblattina clarkii* Scudd., (194).

Dysmenes gen. n. *Etblattina illustris* Scudd., (194).

Phoberoblatta gen. n. (194) *grandis* **sp. n.** N. America (195).

Eumorphoblatta gen. n. for *Neomyliacris heros* Scudd., (195).

†*Apotypoma* gen. n., *longa*, *platyptera*, **spp. n.**, Böhmen.

Sterzelia gen. n. for *Etblattina steinmanni* St., (197).

Platyblatta gen. n. for *Etblattina steinbachensis* etc., (197).

Gongyloblatta gen. n. *fritschii* **sp. n.** Böhmen, (198).

Syncoptoblatta gen. n. (199), *thoracica* **sp. n.** Frankreich (200).

Miaroblatta gen. n., *elata* **sp. n.** Frankreich (201).

Auxanoblatta gen. n. (201), *saxonica* **sp. n.** Sachsen (202).

Stephanoblatta gen. n. for *Etblattina gaudryi* Agn., (202).

Asemoblatta gen. n. *pennsylvanica*, *danielsi*, **spp. n.** N. America, HANDLIRSCH (725) P. U. S. Mus. 29.—*A. brongniartiana* Frankreich, (203) Fossil. Ins., **sp. n.**

Phylloblatta gen. n., *macroptera* (731), *cassvilleana* (733), *regularis*, *abbreviata*, (734), *clatior*, *dichotoma*, *fracta*, *arcuata*, *mortua*, (735), *vulgata*, *virginiana*, *debilis*, (736), *scudderiana*, *dimidiata*, *rebaptizata*, (738), *sellardsii*, (739) **spp. n.**, N. America, P. U. S. Mus. 29.—*P. gallica* (205), *agnusi*, *brongniarti*, *stephanensis*, *alutacea*, (206), *reniformis* (207), Commeny, *frechi*, *nana*, Sachsen, (222), Fossil. Ins., **spp. n.**

Atimoblatta gen. n. *curripennis*, (723), *reniformis* (724) **spp. n.** N. America, P. U. S. Mus. 29.

Progonoblattina heeri Schweiz, (230) Fossil. Ins., **sp. n.**

Amoeoblatta gen. n. for *Gerablattina permanenta* Scudd., Washington P. U. S. Mus. 29 (740).

Liparoblatta gen. n. for *Gerablattina ovata* Scudd., (740) P. U. S. Mus. 29.

Bradyblatta gen. n. for *Etblattina sagittaria* Scudd., (741).

Exochoblatta **gen. n.** for *Petrablattina hastata* Scudd., (741).

Acosmoblatta **gen. n.** type *Gerablattina permaera* Scudd., (742).

Amblyblatta **gen. n.** for *Gerablattina lata* Scudd., (742).

Penetoblatta **gen. n.** for *Anthracoblattina virginienensis* Scudd., (743).

Pareinoblatta **gen. n.** for *Etoblattina expuncta* Scudd., (743).

Symphymbolatta **gen. n.** for *Etoblattina debilis* Scudd., (744).

Apempherus **gen. n.** type *Poroblattina complexinervis* Scudd., (744).

Olethoblatta **gen. n.** (745) *americana* (746) **sp. n.** N. America.

Cardioblatta **gen. n.** for *Mylacridium fritschii* Schl., (231) Fossil. Ins.

Xenoblatta **gen. n.** (745) for *Gerablattina fraterna*, Scudd., P. U. S. Mus. 29.

Stygetoblatta **gen. n.** (746) *latipennis* (747) **sp. n.** N. America.

Distatoblatta **gen. n.** for *Etoblattina persistens* Scudd., (739).

Metarys **gen. n.** for *Etoblattina fossa*, Scudd., (739).

Metaxyblatta **gen. n.** (729), *hadroptera* (730) **sp. n.** N. America.

Metachorus **gen. n.** (747), *striolatus* **sp. n.** (748) N. America.

Oxynoblatta **gen. n.**, *alutacea* **sp. n.** N. America, (748).

Discoblatta **gen. n.** for *Etoblattina scholfieldi* Scudd., (749).

Spiloblattinidae **fam. n.** for *Sysciophlebia* Handl. etc., (240) Fossil. Ins.

Sysciophlebia **gen. n.** (751), *whitei*, *scudderi*, (752), *hybrida*, *sellardsii*, *lawrenceana*, *affinis*, (753), *schucherti*, *pieta*, (754), *adumbrata*, *rotundata*, (755), *nana*, *obtusata*, (756), *aeutipennis*, (757), *fenestrata*, (759), **spp. n.**, N. America, P. U. S. Mus. 29.—*S. oligoneura* Sachsen (244), Fossil. Ins., **sp. n.**

Diadoblatta **gen. n.** for *Etoblattina temis* Scudd., (759) P. U. S. Mus. 29.

Syscioblatta **gen. n.** *obscura*, *anomala*, *minor*, (760), *steubenwilliana* (761), *misera* (762), **spp. n.**, N. America.

Spiloblattina *perforata* **sp. n.** N. America, (762).

Ametroblatta **gen. n.** type *Etoblattina strigosa* Scudd., (763).

Arrhythmoblatta **gen. n.**, *scudderiana* **sp. n.**, N. America, (763).

Doryblatta **gen. n.** (764), *longipennis* **sp. n.** (765).

Ataetoblatta **gen. n.**, *anomala* **sp. n.** N. America, (764).

(*Spiloblattinidae*) *gardinerana* N. America, (376) Fossil. Ins., **sp. n.**

Hemimylacris **gen. n.** (766) *Fam. Mylacridae*, *ramificata* (767) **sp. n.** N. America P. U. S. Mus. 29.

Soomylacris **gen. n.** for *Etoblattina deanensis* Scudd., (259) Fossil. Ins.

Exochomylacris **gen. n.** (767), *virginiana* (768) **sp. n.** N. America, P. U. S. Mus. 29.

Orthomylacris **gen. n.**, *analisis*, (768), *regulosa*, *truncatula*, (769), *elongata*, (770), *alutacea*, *pennsylvanica*, (771) **spp. n.**, N. America.

Anomomylacris **gen. n.**, *cubitalis* (772) **sp. n.** N. America.

Stenomylacris **gen. n.** (772), *elegans* (773) **sp. n.** N. America.

Aetinomylacris **gen. n.** (773), *vicina* (774) **sp. n.** N. America.

Pluthinomylacris **gen. n.**, *cordiformis*, (774), *medialis* (775), **spp. n.**, N. America.

Chalepomylacris **gen. n.**, *pulchra* **sp. n.**, N. America (775).

Brachymylacris **gen. n.**, *elongata*, *cordata*, (776), *rotundata*, *mixta*, (777), **spp. n.** N. America.

Goniomylacris **gen. n.**, *pauper* (778) **sp. n.** N. America.

? *Mylacris* *sellardsii*, *M. similis*, (779), ? *M. dubia* (780), **spp. n.**, N. America.

? *Aphelomylacris* **gen. n.**, *modesta* **sp. n.** N. America (780).

Sphenomylacris **gen. n.** (781), *singularis* **sp. n.** (782) N. America

Amblymylacris **gen. n.** for *Etoblattina elintoniana* Scudd. and *Phomylacris harei* Scudd. (782).

(*Mylacridae*) *pseudocarbonum*, *carbonina* **spp. n.** N. America (784).

Pseudomylacridae **fam. n.** for *P. wettinense* Schl. (274) Fossil. Ins.

Idiomylacridae fam. n. (789), *Idiomylacris* **gen. n.**, *gracilis* (790) **sp. n.** N. America, P. U. S. Mus. 29.

Neorthroblattinidae fam. n. for *Neorthroblattina* Scudd., (790).

Dictyomylacridae fam. n. for *Dictyomylacris* Brongn., (785).

Neomylacridae fam. n. *Neomylacris* (786) **gen. n.**, *major*, *pulla*, (787) *paucinervis*, (788), **spp. n.** N. America.

Pteridomylacridae fam. n. *Pteridomylacris* (788) **gen. n.**, *paradoxa* (789) **sp. n.** N. America.

Poroblattinidae fam. n. *Poroblattina brachyptera*, (791), *lata*, *richmondiana*, (792), **spp. n.**, N. America.

? *Systoloblatta* **gen. n.** for *Poroblattina ohioensis* Scudd., (792).

Mesoblattinidae fam. n. *Acmaeoblatta* **gen. n.**, *lanceolata* **sp. n.** N. America (793).

Dichronoblatta **gen. n.** for *Gerablattina minima* Scudd., (794).

Nearoblatta **gen. n.**, type *Nearoblatta parvula* Gold., (794).

Epheboblatta **gen. n.** for *Neorthroblattina attenuata* Scudd., (794).

Dicchoblattinidae fam. n. *Nepioblatta* **gen. n.** for *Scutinoblattina brongniarti* Scudd., (795).

Brephoblatta **gen. n.** for *Scutinoblattina recta* Scudd., (796).

Phanoblatta **gen. n.** for *Blattina clathrata* Heer, etc., (350) Fossil. Ins.

Gondwanoblatta **gen. n.** (351), *reticulata* **sp. n.** Kashmir (352) Fossil. Ins.

Dromoblatta **gen. n.** for *Anthracoblattina sopita* Scudd., (352) Fossil. Ins.

Deichmulleria **gen. n.** for *Etoblattina ornatisissima* Deichm., (352) Fossil. Ins.

Anomoblatta **gen. n.** for *Blattina ruckerti* Gold., (370) Fossil. Ins.

Proterema **gen. n.** *Proteremidae* fam. n., for *Blattina varinervis* Göpp., (380) Fossil. Ins.

(*Blattoidea*) *melanderi*, *schuchertiana*, *sellardsii*, *sellardsiana*, (800), *schucherti*, (801) **spp. n.** N. America, P. U. S. Mus. 29.

The following new *Blattoidea* are described by HANDLIRSCH (Fossil. Ins.) from Mesozoic deposits.

Mesoblattopsis **gen. n.** for *Mesoblattina bensoni* Scudd., (428).

Liadoblattina **gen. n.** for *Mesoblattina blakei* Scudd., (428).

Rhipidoblattina **gen. n.** for *Mesoblattina geikiei* Scudd., (429).

Caloblattina **gen. n.** for part of *Blattina*, (429).

Mesoblattula **gen. n.** for *Mesoblattina dobbertiniana* Gein., etc., (430).

Blattula **gen. n.**, *ancilla*, (431), *geinitzi* (432), *debilis*, *pusillima*, (433), **spp. n.**, Lias Mecklenburg., Fossil. Ins.

Pachyneuroblattina **gen. n.**, *rigida* **sp. n.** Lias Mecklenburg., (433).

Sehambeloblattina **gen. n.** for *Blattina formosa* Heer, (433).

Aetinoblattula **gen. n.**, *brodiei* **sp. n.** Lias England, (434).

Ophismoblatta **gen. n.** *Poroblattinidae* for *Blattina sibirica* Br. and *Periplaneta maculata* Br., (526).

Malmoblattina **gen. n.** for *Mesoblattina* part, (528).

Artitocoblatta **gen. n.** for *Rithma gossii* Scudd., (529).

Lithoblatta **gen. n.** for *Mesoblattina lithophila*, (530).

Rhipidoblattina **gen. n.** for *Mesoblattina bucklandi* Scudd., (531).

Elisama scudderi Purbeck England, (531) **sp. n.**

Durdlestoneia **gen. n.** for *Mesoblattina antiqua*, (532).

Nannoblattina brodiei Purbeck England, (534), **sp. n.**

Mesoblattina deichmulleri Kalk Bayern, (537), **sp. n.**

Megaloeerca **gen. n.**, *longipes* **sp. n.** Kalk Bayern, (540).

PHASMIDAE.

Die Insektenfamilie der Phasmiden. Lfg. 1: Phasmidae areolatae (bearb. v. J. Redtenbacher). 1906, (1-180, mit 6 Taf.). BRUNNER v. WATTENWYL, K. und REDTENBACHER, Jos. The synonymy given in this important work is not reproduced below. The descriptions in this Lieferung are by REDTENBACHER.

BRUNNER VON WATTENWYL, C. *Phasmidac.* Nova Guinea Résultats de l'Expédition scient. Néerl. à la Nouvelle Guinée en 1903. Leide 5 Livr. 1

1906 (13-15). Includes names, but not descriptions of new species.

Les appendices glandulaires de l'intestin moyen (*Phyllium erurifolium* Audinet Serville). BORDAS Paris C.-R. soc. biol. **60** 1906 (439-441), et Réunion biologique de Marseille **1906** (5-7).

Abrosoma **gen. n.** *virescens* Ceylon, (83), *carinulatum* Indien, *discolor* Java, *flavo-guttatum* Indien, (84), *abrosoma* Java, *modestum* Indien, *sericeum* Madras etc., *singulare*, *villosum*, Kodekanal, (85), *exiguum* Ceylon (86), **spp. n.**, REDTENBACHER Phasmidae.

Acanthoclusia crinaceus (62), *dieranum* (63), Columbia, **spp. n.**, REDTENBACHER T.c.

Agathemera anthracina Chile, *millepunctata* Argentinien, *sphaerocephala* Peru, **spp. n.**, REDTENBACHER (89) T.c.

Agrostia **gen. n.**, *amoena* Panama, *bipunctata* Amazonas, (110), **spp. n.**, REDTENBACHER T.c.

Allocophasma **gen. n.** for *Phasma cubense* SAUSS., REDTENBACHER T.c. (126).

Anisa **gen. n.** for *Phasma flavomaculatum* Gray, REDTENBACHER T.c. (100).

Anisacantha **gen. n.** (162), *albo-geniculata*, *difformis*, *vidua*, Madagaskar, (163), **spp. n.**, REDTENBACHER T.c.

Anisomorpha fasciata Bolivien (91), *longipennis* Cuba, *unicolor* Peru, (92), *coriacea* Neu-Granada, *lurida* Brasilien, *rugosa* Bolivien, (93), *boliviana* Bolivien, *jamaicana* Jamaika, (94), **spp. n.**, REDTENBACHER T.c.

Antherice **gen. n.**, *gracilis* **sp. n.** Bolivien, REDTENBACHER (109) T.c.

Antongila **gen. n.** (24), *aculeata*, *echinops*, *laciniata*, (25), *pungens*, *4-tuberculata*, *simplex*, (26), *annulicornis*, *coronata*, *squamigera*, (27), *muricata*, (28), **spp. n.**, Madagaskar, REDTENBACHER T.c.

Ascepasma piccum, *viridi-lineatum*, Sumatra, (75), *modestum* Sumatra, *smaragdinum*, *xanti*, Borneo, (76), *superbum*, *versicolor*, Borneo, (77), **spp. n.**, REDTENBACHER T.c.

Autolyca blapoides Ecuador, *pentlandi* Peru, *picturata* Chile, (95), *albifrons* Neu-Caledonien (96), *flavolimbata* Ecuador (97), **spp. n.**, REDTENBACHER T.c.—A.

doylei **sp. n.** Colombia, CAUDELL Ent. News **17** (192-193).

Batycharax auriculatus **sp. n.** W. Afrika, REDTENBACHER Phasmidae (13).

Brizoides **gen. n.**, *flavipennis* Brasilien, *nigricornis* Panama, (112), *amabilis* Venezuela, *graminea* Bugaba, *lacteipennis* Amazonas, *minutissima* Montevideo, (113), **spp. n.**, REDTENBACHER T.c.

Canuleius *20-spinosus* (66), *24-spinosus*, *metzi*, (67), *inermis*, *nudiceps*, *pullus*, *similis*, (68), *pygmaeus* (69), Brasilien, **spp. n.**, REDTENBACHER T.c.

Ceroys cristatus Brasilien (60), *pusillus* Peru, *quadrispinosus* Columbien, (61), **spp. n.**, REDTENBACHER T.c.—*C. lituus* **sp. n.** Demerara, REHN (277) Philadelphia Proc. Acad. **58**.

Chitoniscus lobipes Fidschi-Ins. (178), *erosus* Neu-Guinea (179), **spp. n.**, REDTENBACHER Phasmidae.

Chlorophasma **gen. n.**, *hyalina* **sp. n.** Panama, REDTENBACHER (114) T.c.

†*Chresmodidae*, the family and forms, HANDLIERSCH (523-526) Fossil. ins.

Cirsia **gen. n.**, *finoti*, *madegassa*, Madagaskar, **spp. n.**, REDTENBACHER, Phasmidae (22).

Citrina **gen. n.** for *Phasma prasina* and *P. venilia*, REDTENBACHER (109) T.c.

Clonistria linearis, BRUNER (144) New York J. ent. Soc. **14**.

Crocoxylus hageni Venezuela (142), *impennis* hab.? (143), **spp. n.**, REDTENBACHER Phasmidae.

Dajaca monilicornis **sp. n.** Borneo, REDTENBACHER (162) T.c.

Damasippoides albomarginatus, *erythropterus*, *sykorai*, (158), *spiniicollis* (159), Madagaskar, **spp. n.**, REDTENBACHER T.c.

Damasippus fuscipes Panama (147), *intermedius* Bogota, *piceipennis* Bolivien, *puleher* Brasilien, (148), *staudingeri* Brasilien, *striatus* Columbien, *unilineatus*, *discoidalis*, Brasilien, (149), **spp. n.**, REDTENBACHER T.c.

Dares (*Epidares* subgen. n.) *hamatacanthus*, (54), *D. verrucosus*, *breitensteini*, Borneo, *calamita* hab.?, (55), *corticinus* Borneo, *subcylindricus* Tongking, (56), **spp. n.**, REDTENBACHER T.c.

Datames mitratus Malakka (50), *moluccanus* Celebes, *arietinus* Sumatra,

cylindripes Java, (51), *pusillus* Cochinchina (52), **spp. n.**, REDTENBACHER T.c.

Dina **gen. n.**, *ruficornis*, *saginata*, Borneo, **spp. n.**, also *Phasma guttigerum* Westw., REDTENBACHER T.c. (86).

Dinelytron villosipes **sp. n.** Brasilien, REDTENBACHER T.c. (151).

Dixippus morosus, SCHMITZ Natur u. Offenb. Münster **52** (385-407).

Donusa glabriuscula **sp. n.** Chile, REDTENBACHER Phasmidae (99).

Epibacillus **gen. n.** for *Bacillus lobipes* Luc., REDTENBACHER T.c. (35).

Epidares **subgen. n.** vide *Dares*.

Eucles **gen. n.**, *imperialis* Columbien, *intermedius* Amazonas, (101), *bifasciatus* Costa Rica (102), **spp. n.**, REDTENBACHER Phasmidae.

Euphasma **gen. n.** (125), *bicorne* Südamerika **sp. n.**, (126), REDTENBACHER T.c.

Harpuna **gen. n.** for *Dinelytron nepotinus* Kaup, REDTENBACHER (130) T.c.

Heterocopus **gen. n.**, *leprosus* **sp. n.** Pelew-Inseln, REDTENBACHER (42) T.c.

Heteropteryx erringtoniae Malakak (169), *dipsacus* (170), *echinata*, *scabra*, *saussurei*, (171), Borneo, **spp. n.**, REDTENBACHER T.c.

Holea **gen. n.**, *annulipes* Columbien, *proxima* Costa Rica, **spp. n.**, REDTENBACHER (114) T.c.

Hoploclonia cuspidata **sp. n.** Borneo, REDTENBACHER (46) T.c.

Isagoras proximus Ecuador (133), *brevipes* Brasilien, *dentipes* Panama, *nitidus* Brasilien, (134), *plagiatus* Brasilien, (135), **spp. n.**, REDTENBACHER T.c.

Leocrates glaber, *mecheli*, Sumatra, **spp. n.**, REDTENBACHER (167) T.c.

Leprodes **gen. n.**, *diceranocollis*, *gibbifer*, Madagaskar, **spp. n.**, REDTENBACHER (23) T.c.

Leptynia attenuata var. *n. barrettii*, TAVARES (95) Broteria **5**.—*L. fourniali* Sahara, BOLÍVAR (385) Madrid Bol. Soc. esp. Hist. nat. **6**, **sp. n.**; also in Foureaux Mission saharienne fasc. 3.

Malacomorpha **gen. n.** *Anisomorphae* (113), *androsensis* **sp. n.** Bahamas, (114), REHN New York Bull. Amer. Mus. **22**.

Melophasma **gen. n.**, *vermiculare* Brasilien **sp. n.**, REDTENBACHER Phasmidae (157).

Metriotes armatus Columbien (139), *iphiocles* Honduras, *pericles* Brasilien, (140), **spp. n.**, REDTENBACHER T.c.

Mirophasma **gen. n.**, *cirsium* **sp. n.** Columbia, and part of *Ceroys*, REDTENBACHER (64) T.c.

Nanophyllium **gen. n.**, *pygmaeum* **sp. n.** Neu-Guinca, REDTENBACHER (180) T.c.

Neophasma **gen. n.** (124), *granulosum*, *peruanum*, *scabriusculum*, Peru, *subapterum* Venezuela, (125), **spp. n.**, REDTENBACHER T.c.

Ocnobius **gen. n.**, *lobulatus* **sp. n.** Kiboscho, REDTENBACHER (29) T.c.

Oestrophora **gen. n.**, *triangulifera* **sp. n.** Surinam, REDTENBACHER (124) T.c.

Olepyhides cancellatus **sp. n.** Canton, REDTENBACHER (108) T.c.

Olinta **gen. n.** for *Metriotes bubastes* Westw., REDTENBACHER (131) T.c.

Obrimus lacerta (39), *foveolatus*, (40), Philippinen, *aspermus*, *muscosus*, Borneo, (41), **spp. n.**, REDTENBACHER T.c.

Onogastris **gen. n.** (23), *exsiccata*, *pardalina*, Madagaskar, (24), **spp. n.**, REDTENBACHER T.c.

Orestes **gen. n.**, *verrucatulus* **sp. n.** Siam, REDTENBACHER (47) T.c.

Orobia vaginata, *brevivalvis*, *operculata*, (70), *concolor*, *intermedia*, *spinosa*, (71) *adusta*, *maculipes*, (72), *flaviceps*, *nigrotuberculata*, (73), Madagaskar, **spp. n.**, REDTENBACHER T.c.

Pachyphloca **gen. n.**, *aberrans* **sp. n.** Ecuador, REDTENBACHER T.c.

Paranisomorpha **gen. n.**, *insignis* **sp. n.** Costa Rica, REDTENBACHER (90) T.c.

Paraphasma **gen. n.** (114), *amabile* Peru, *marginale* Brasilien, (115), *minus* Amazonas (116), *cognatum* Ecuador, *conspersum* Brasilien, (117), **spp. n.**, REDTENBACHER T.c.

Paraprisopus **gen. n.**, *folliculatus* **sp. n.** Ecuador, REDTENBACHER (156) T.c.

Parastratoles **gen. n.**, *aeruginosus* **sp. n.** Peru, REDTENBACHER (107) T.c.

Parctatosma sakavalanum (165), *cervinum* (166), Madagaskar, **spp. n.**, REDTENBACHER T.c.

Periphloca **gen. n.** (151), *corticina* **sp. n.** Guyana (152), REDTENBACHER T.c.

Periodes **gen. n.** (136), *affinis*, *gri-sescens*, Brasilien, *obscurus* Ecuador, (137), *sexmaculatus* (138), **spp. n.**, and *nigro-granulosus* **nom. n.** für *cinereus* Burm., REDTENBACHER T.c.

Phacophasma **gen. n.**, *alatum* **sp. n.** Borneo, REDTENBACHER (161) T.c.

Phalces unilincatus **sp. n.** Madagaskar, REDTENBACHER (28) T.c.

Phantasea **gen. n.** for part of *Phasma*, REDTENBACHER (111) T.c.

Phasma flavicorne Brasilien, *flavipenne*, *amulipes*, Bolivia, *marmoratum* Columbia etc., (119), *fulvum* Cordilleren, *rufipes* Peru, (120), *velutinum* Peru (121), *acanthonotus* Peru, *bispinosum* Ecuador, (122), *illustre* Amazonas (123), **spp. n.**, REDTENBACHER T.c.

Phryganistria grandis **sp. n.** Tonkin REHN (279) Philadelphia Proc. Acad. 58.

Phyllinae: Ceylonese species characters etc.; GREEN *Spolia zeylan.* 3 (220-222) 2 plates.

Phyllium erurifolium Systeme nerveux sous-intestinal, BORDAS Rennes Bul. soc. sci. méd. 15 1906 (98-100); Structure des cæcums, BORDAS Paris C.-R. Acad. sci. 142 (649-650).—*P. frondosum* (175), *caudatum* (176), Neu-Guinea, **spp. n.**, REDTENBACHER Phasmidae.

Planudes brunni Venezuela, *funestus* Columbia (132), **spp. n.**, REDTENBACHER T.c.

Platymorpha **gen. n.**, *cochinchinensis* Cochin China, (46), *bengalensis* Bengalen and Java (47), **spp. n.**, REDTENBACHER T.c.

Presbistus fulvescens Ostindien, *nigrogeniculatus* (80), *marginatus* (81), *fulvipennis* (82), Borneo, **spp. n.**, REDTENBACHER T.c.

Prexaspes viridipes Peru (129), *4-guttatus* Brasilia (130), **spp. n.**, REDTENBACHER T.c.

Prisopus piperinus **sp. n.** Cayenne, REDTENBACHER (154) T.c.

Pseudodatames **gen. n.**, *alluandi*, *memorabilis*, Madagaskar, **spp. n.** REDTENBACHER (21) T.c.

Pseudocosthenes **gen. n.**, *dubiosus*, *scaberrimus*, (159), *irregularis* (160), Madagaskar, **spp. n.**, REDTENBACHER T.c.

Pterobrimus **gen. n.**, *depressus* **sp. n.** Fidji-Ins., REDTENBACHER (43) T.c.

Pygirhynchus muricatus (58), *bispinosus*, *granulosus*, (59), Brasilien, **spp. n.**, REDTENBACHER T.c.

Pyllacmenes infans **sp. n.** Borneo, REDTENBACHER (49) T.c.

Scetosa **gen. n.** (65), *versicolor* Columbia **sp. n.** (66), REDTENBACHER T.c.

Stenobrimus **gen. n.**, *bolivari* **sp. n.** Philippinen, REDTENBACHER (37) T.c.

Stratocles rufipes Columbia (103), *soror* Nicaragua, *adelphus* Bolivia, *carbonarius* Peru, *flavipes* Amazonas, *lugubris* Bolivia, (106), *roseipennis* Columbia (107), **spp. n.**, REDTENBACHER T.c.

Taenionema **nom. n.** pro *Taeniosoma* Bol. 1897, BOLÍVAR (393) Madrid Bol. Soc. esp. Hist. nat. 6.

Tencrella **gen. n.**, *tenerrima* **sp. n.** Columbia, REDTENBACHER Phasmidae (109).

Tisamenus armadillo **sp. n.** Philippinen, REDTENBACHER (44) T.c.

Xera **gen. n.** (145), *debilis* **sp. n.** Venezuela (146), REDTENBACHER T.c.

Xeranthrix pinnatus (160), *parvipennis* (161), Madagaskar, **spp. n.**, REDTENBACHER T.c.

Xeropsis **gen. n.**, *sicca* **sp. n.** Chilo, REDTENBACHER (145) T.c.

Xerosoma vignieri Paya (144), *michaelis* Brasilien (145), **spp. n.** REDTENBACHER T.c.

Xylica coriacea W. Afrika, *4-spinosa* Zanzibar, (29), *abbreviata* Ost Afrika, *caligulata* Zanzibar, *madagassa* Madagaskar, (30), **spp. n.**, REDTENBACHER T.c.

(*Libethra auritus* REHN, Philadelphia Pa. Proc. Acad. Nat. Sci. 57, sp. n.)

(*Olecyphides viridipes* REHN, T.c. sp. n.)

MANTIDAE.

Anatomie des glandes salivaires *Mantis religiosa*. BORDAS Rennes Bul. soc. sci. méd. 15 1906 (64-68).

Anatomic et structure histologique des glandes mandibulaires des *Mantida* L. *Mantis religiosa*. BORDAS Paris C.-R. soc. biol. **60** 1906 (437-439) av. fig., et Réunion biologique de Marseille **1906** (3-5).

Angela guianensis sp. n. Demerara, REHN (273) Philadelphia Proc. Acad. **58**.

Aspidonotus spinosus, BOLÍVAR (386) Madrid Bol. Soc. esp. Hist. Nat. **6**.

Cilnia femoralis sp. n. D. Ostafrika, WERNER Stuttgart Jahreshefte Ver. Natk. **62** (368).

Entella aliena Bagamoyo, *lamperti* Tanga, *minima* Kahe Kibuaajo, *widenmanni* Moschi, spp. n., WERNER T.c. (364).

Eremiaphila brunneri Jerusalem (384), *davydovi* Dead Sea (385), *libyca* Libya (387), *persica* Chorassan (388), *rolfsi* Kufra Oasis (390), WERNER Wien Sitz. Ber. Ak. **114** Abt. I, spp. n.—*E. klunzingeri* sp. n. Kosseir, WERNER Stuttgart Jahreshefte Ver. Natk. **62** (316).—*E. foureaui* Sahara sp. n., BOLÍVAR in Foureau mission saharienne fasc. 3.

†*Geinitzia* gen. n. *Geinitziidae* fam. n., *minor*, *debilis*, spp. n. Lias Mecklenburg, and *Gryllaeris schlieffeni* Gein., HANDLIRSCH (427) Fossil. Ins.

Gongylus gongylodes, stridulation, WILLEY (226) *Spolia zeylan.* **3**.

†*Hagla anglica* Lias England, HANDLIRSCH (425) Fossil. Ins., sp. n.

†*Haglidae* fam. n. for *Hagla*, *Haglodes* and *Haglopsis*, HANDLIRSCH (425) T.c.

†*Haglodes* gen. n. for *Hagla similis*, HANDLIRSCH (425) T.c.

†*Haglopsis* gen. n. for *Orthophlebia parallela* Gieb., HANDLIRSCH (426) T.c.

Hierodula (Sphodromantis) occidentalis sp. n., Deutsch Südwestafrika, WERNER Stuttgart Jahreshefte Ver. Natk. **62** (366).

Liturgousa orientalis sp. n. Deutsch Ostafrika, WERNER Stuttgart Jahreshefte Ver. Natk. **62** (372).

†*Palacomantidae* fam. n. for *Palacomantis* and *Petromantis*, HANDLIRSCH (348) Fossil Ins.

Parastagmatoptera vitrepennis sp. n. Trinidad, BRUNER (144) New York J. Ent. Soc. **14**.

Polyspilota heteroptera sp. n. Kamerun, WERNER Stuttgart Jahreshefte Ver. Natk. **62** (365).

Rhombodera scutata in Africa, BOLÍVAR (384) Madrid Bol. Soc. esp. Hist. nat. **6**.

Sphodromantis bioculata, Aufzucht, Farbwechsel und Regeneration (Einschl. einiger Regenerationsversuche v. Stud. phil. Isaak Werber.) PRZIBRAM Arch. EntwMech. **22** (149-206) 4 Taf.

Tropidomantis africana sp. n. Bagamoyo, WERNER Stuttgart Jahreshefte Ver. Natk. **62** (364).

GRYLLIDAE.

Catalogue of *Achetidae*, KIRBY Cat. Orthopt. **2** (I-II). We give below the new generic, but not the new specific names.

Stridulation, *Gryllus*, position of tegmina in sexes and its variation, LUTZ (207-209) Canad. Entomol. **38**.

†*Achaetites* gen. n. for *Acheta sedgwicki* Brod., HANDLIRSCH (523) Fossil. Ins.

Amblyrhethus nom. n. for *Amblyopus* Sauss., KIRBY (97) Cat. Orthopt. **2**.

Caenemobius nom. n. for *Paranemobius schauinslandi*, KIRBY (13) T.c.

Cylindracheta nom. n. for *Cylindrodes*, KIRBY (7) T.c.

Duolandrerus nom. n. for *Landrerus* Sauss., KIRBY (50) T.c.

Ectatoderus insularis sp. n. Trinidad, BRUNER (163) New York J. Ent. Soc. **14**.

Gryllodes marcoticus Alexandria, WERNER (434) Wien SitzBer. Ak. **114** Abt. I, sp. n.

Gryllus campestris, Lebensgewohnheiten, DUDINSZKY Rovart L. **13** (192-193); hibernation etc., REGEN Zool. Anz. **30** (131-135); stridulation, Wien Sitz. Ber. Ak. Wiss. **114** Abt. iii (57-81) I pl.

†*Mesogryllus* gen. n. for *Blattidium achelous* Westw., HANDLIRSCH (523) Fossil. Ins.

Nemobius haffneri Nile, WERNER (433) Wien SitzBer. Ak. **114** Abt. I, sp. n.—

N. funeralis sp. n. Texas, HART (159) Ent. News **17**.

Neocurtilla nom. n. for *Curtilla*, KIRBY (2) Cat. Orthopt. ii.

Neoxabea gen. n., KIRBY (76) T.c.

Oecanthus immaculatus sp. n. Trinidad, BRUNER (164) New York J. Ent. Soc. **14**.

†*Protagryllus* gen. n., femina sp. n. Lias Mecklenburg, HANDLIRSCH (424) Fossil. Ins.

Symphyloxiphus gen. n. near *Anaxipha*, *magnificum* sp. n. Costa Rica, REHN (603) Washington U. S. Nation. Mus. Proc. **30**.

(*Ectotrypa brevis* REHN, Philadelphia Pa. Proc. Acad. Nat. Sci. **57**, sp. n.)

LOCUSTIDAE OR PHASGONURIDAE.

Catalogue of *Phasgonuridae*, KIRBY Cat. Orthopt. **2** (111–186). We give below the new generic, but not the new specific names.

†*Acridomima* gen. n. for *Acridiutes deperditus* Heer, HANDLIRSCH (422) Fossil. Ins.

Acridoxena hermaniana pl. x, BOLÍVAR (306) Madrid Mem. Soc. esp. Hist. Nat. **1**.

Anabropsis tonkinensis sp. n. Tonkin, REHN (284) Philadelphia Pa. Proc. Acad. **58**.

Amaureta nom. n. for *Amaura* Br. 1878, BOLÍVAR (391) Madrid Bol. Soc. esp. Hist. nat. **6**.

Aniarella nom. n. pro *Aniara* Br. 1878, BOLÍVAR (391) T.c.

Arantia tigrina Fernando Po (330), manca Africa (332), BOLÍVAR Madrid Mem. Soc. esp. Hist. nat. **1**, spp. n.

Arantia gestroi Congo, GRIFFINI (384) Genova Ann. Mus. **42**, sp. n.

Astralia gen. n. for *Aprion albicellatum* Walk., KIRBY (298) Cat. Orthopt. **2**.

Azamia gen. n. *Phaneropterides* (339), *biplagiata* sp. n. Camerum (341), BOLÍVAR Madrid Mem. Soc. esp. Hist. nat. **1**.

Baryprostha bestiola sp. n. Sumatra, DOHRN (354) Stettiner ent. Ztg. **67**.

Bliastes insularis sp. n. Trinidad, BRUNER (160) New York J. Ent. Soc. **14**.

Brisilis chipmawi sp. n. Trinidad, BRUNER (158) T.c.

Butleriella nom. n. for *Butleria* Br. 1888, BOLÍVAR (391) Madrid Bol. Soc. esp. Hist. nat. **6**.

Ceraia similis, *cornutoides* spp. n., Paraguay, CAUDELL, Washington (237) U. S. Nation. Mus. Proc. **30**.

Chondrodera maxima sp. n. Tonkin, REHN (281) Philadelphia Proc. Acad. **58**.

†*Conocephalites* gen. n. for *Conocephalus capito* Deichm., HANDLIRSCH (518) Fossil. Ins.

Conocephalus lyristes, measurements, REHN Ent. News **17** (366–367).—*C. basiguttatus* Camerum, BOLÍVAR (371) Madrid Mem. Soc. esp. Hist. nat. **1**, sp. n.

Cratioma nom. n. pro *Cratylus* Stål 1874, BOLÍVAR (391) Madrid Bol. Soc. esp. Hist. nat. **6**.

†*Cyrtophyllites musicus* Kalk Bavaria, HANDLIRSCH (521) Fossil. Ins., sp. n.

Cyrtophyllus elongatus (40), *furcatus*, *intermedius*, (41), United States, spp. n., CAUDELL New York J. Ent. Soc. **14**.

Deflorita nom. n. pro *Exora* Br. 1878, BOLÍVAR (392) Madrid Bol. Soc. esp. Hist. nat. **6**.

Desauleya gen. n. *Pseudophyllides* (354), *pictipennis* sp. n. Camerum (355), BOLÍVAR Madrid Mem. Soc. esp. Hist. nat. **1**.

Diestrammena longipes (287), *palpata* (290). Tonkin, REHN Philadelphia Proc. Acad. **58**, spp. n.

Dolichopoda geniculata Costa dans les ruines d'Herculanum; GIARD Paris Bull. soc. ent. **1906** (285–287).

Elbeniopsis gen. n. near *Paraecadicia* (356), *callipygos* sp. n. Sumatra (357), DOHRN Stettiner ent. Ztg. **67**.

†*Elecanidae* fam. n. for *Eleana* Giebel, HANDLIRSCH (412) Fossil. Ins.

†*Eleana magna*, *arcuata simplex*, *basalis*, (413), *media*, Mecklenburg, *britannica*, *brodiei*, England, *flexuosa* (414), *saltans*, *trifurcata*, *geinitziana*, *littoralis*, *obliqua*, (415), *rudis*, *orchestes*, (416), *spiloptera*, *plicata*, *rotundata*, *fusca*, (417), *tennis*, *salicis*, *halophila*,

lactor, *gracilis*, (418), *germanica*, *parvula*, *minima*, *dobbertiniana*, (419), *gracillima*, *triquetra*, *pullula*, (420), Lias Germany, HANDLIRSCH Fossil. Ins., spp. n.—*E. phyllophora*, *deichmulleri*, (516), *longicornis*, *oppenheimi*, *bavarica*, (517), Jurass. Bavaria, *west-woodi* Purbeck England (518), HANDLIRSCH T.c.

Elimaea synonymy; *E. brunneri* nom. n. für *E. parumpunctata* Brunn. (348), *E. signata* var. n. *adspersa* (348), *E. maculosa* Kr. to *Ductia* (352), DOHRN Stettiner ent. Ztg. 67.

Enochletica affinis Camerum (333), BOLÍVAR Madrid Mem. Soc. esp. Hist. nat. 1, sp. n.

Ephippigera vitium, GEISENHEYNER Zool. Beob. Frankfurt a. M. 47 (48-49).—*E. ephippigera* var. n. *moquntiaea*, SCHUSTER Wiesbaden Jahrb. Ver. Natk. 59 (153-156).

Habetia gen. n. for *Agroecia spada* Br., KIRBY (260) Cat. Orthopt. 2.

Hemielimacatonkinensis sp. n. TOKKIN, DOHRN (350) Stettiner ent. Ztg. 67.

Hemielonia gen. n. type *melanoptera* L., KIRBY (226) Cat. Orthopt. 2.

Hexacentrus alluandi Assinie, BOLÍVAR (376) Madrid Mem. Soc. esp. Hist. nat. 1, sp. n.

Himerta feana Congo, GRIFFINI (380) Genova Ann. Mus. 42, sp. n.

Homatoicha fuscopunctata sp. n. Paraguay, CAUDELL Washington U. S. Nation. Mus. Proc. 30 (236).

Gabonia gen. n. *Phaneropteridae* (327), *cothurnata* sp. n. Cameroons (328), BOLÍVAR Mem. Soc. Hist. Nat. 1.

Goëtia dimidiata Fernando Po, BOLÍVAR (335) T.c., sp. n.

†*Gomphocerites heeriana* Schweiz Lias, HANDLIRSCH (423) Fossil. Ins., sp. n.

Gryllaeris wolffti sp. n. Tonkin, KRAUSSE-HELDRUNGEN Insektenbörse 23 (32).

Ischnomela pulchripennis sp. n. Costa Rica, REHN (599) Washington U. S. Nation. Mus. Proc. 30.

Lauista crassicollis, *affinis*, (368), W. Africa, *rarelai* Usambara (369), BOLÍVAR Madrid Mem. Soc. esp. Hist. nat. 1, spp. n.

Lea gen. n. type *Cyrtophyllus floridensis* Benthem., CAUDELL (42) New York J. Ent. Soc. 14.

Leurophyllum gen. n. for part of *Platyphyllum*, KIRBY (320) Cat. Orthopt. 2.

†*Liadolocusta* gen. n., *auscultans* sp. n. Lias England, HANDLIRSCH (423) Fossil. Ins.

Lichenochrus deciduus nom. n. (= *L. marmoratus* Rehn preoc., REHN (204) Ent. News 17.—*L. testaceus* Camerum, BOLÍVAR (361) Madrid Mem. Soc. esp. Hist. Nat. 1, sp. n.

Liocentrum rubripes (356), *haucocki* (357), Camerum, BOLÍVAR T.c., spp. n.

Locusta viridissima with two ovipositors, BERLESE (305-314) Redia 3.—*Samenreifung* OTTE Zool. Anz. 30 (529-535) and (750-754); Musikinstrument, REUKAUF Kosmos Stuttgart 3 (115-116).

Locustidae; synopsis of W. european, BURR (182 etc.) Ent. Rec. 1906.

†*Locustopsis* gen. n. *Locustopsidae* fam. n., *elegans*, *dobbertinensis*, (421), *elongata* (422), spp. n., Lias Mecklenburg, HANDLIRSCH Fossil Ins.

Macroscirtus kangaroo var. n. *joannis*, BOLÍVAR (366) Madrid Mem. Soc. esp. Hist. nat. 1.

Meroncidius atrispinosus sp. n. Trinidad, BRUNER (159) New York J. Ent. Soc. 14.

Mimetica crenulata sp. n. Costa Rica, REHN (601) Washington U. S. Nation. Mus. Proc. 30.

Molpa Walk. = (*Pyrgophyllax* Br.); *M. latipennis* sp. n. Sumatra, DOHRN (358) Stettiner ent. Ztg. 67.

Monchea Walk. = (*Exocephala* Serv.) BOLÍVAR (391) Madrid Bol. Soc. esp. Hist. nat. 6.

Mormotus scapularis, *pictipes*, *fulvus*, (362), *adapantoides* (363), W. Africa, BOLÍVAR Madrid Mem. Soc. esp. Hist. nat. 1, spp. n.

Orchamus nom. n. pro *Orchesticus* Sauss. 1859, BOLÍVAR (392) Madrid Bol. Soc. esp. Hist. nat. 6.

Orophus Sauss. 1861 = (*Anepsia* Br.), BOLÍVAR (391) T.c.

Orpacophora gen. n. for part of *Acanthodis*, KIRBY (313) Cat. Orthopt. 2.

Oxyptita **nom. n.** pro *Oxyprora* Br. 1878, BOLÍVAR (392) Madrid Bol. Soc. esp. Hist. nat. 6.

Paracryptophyllus **gen. n.** (31), *robustus* **sp. n.** Texas (36) pl. i f. 1, CAUDELL New York J. Ent. Soc. 14.

†*Parcleana* **gen. n.** *Eleanidae* (120), *tenuis* **sp. n.** Lias Mecklenburg (121), HANDLIERSCH Fossil. Ins.

Parya Walk. (*Amycus* Stål), BOLÍVAR (391) Madrid Bol. Soc. esp. Hist. nat. 6.

Parysalia **nom. n.** pro *Parysalis* Stål 1874, BOLÍVAR (392) T.c.

Pelerinus **nom. n.** for *Allodapa* Br. 1878, BOLÍVAR (390) T.c.

Pertus **gen. n.** *Pseudophyllides* (351), *pellucidus* **sp. n.** Camerum (352), BOLÍVAR Madrid Mem. Soc. esp. Hist. nat. 1.

†*Phaneropterites* **gen. n.** *Locustopsidae* for *Phanoptera germari* Germ., HANDLIERSCH (519) Fossil. Ins.

Phanischnoptera **nom. n.** for *Ischnoptera* Br., KIRBY (444) Cat. Orthopt. 2.

Phylloptera allieidea, fosteri, **spp. n.**, Paraguay, CAUDELL Washington U. S. Nation. Mus. Proc. 30 (238).

Plagioptera bicordata, protective resemblance, POULTON (533) pl. xxxii f. 2 London Trans. ent. Soc. 1906.

Plangiola **gen. n.** *Phaneropterides* (336), *herbacea* **sp. n.** Camerum (337), BOLÍVAR Madrid Mem. Soc. esp. Hist. Nat. 1.

Platyphyllum (?) *modestum* **sp. n.** Trinidad, BRUNNER (159) New York J. Ent. Soc. 14.

Pleminia marmorata Camerum, BOLÍVAR (360) Madrid Mem. Soc. esp. Hist. nat. 1, **sp. n.**

Polyglochis lichenochroides Camerum, BOLÍVAR (359) T.c., **sp. n.**

Poreuomena gladiator Camerum, BOLÍVAR (338) T.c., **sp. n.**

{*Pseudogryllaeris* **gen. n.** for *Gryllaeris propinqua* Deichm., HANDLIERSCH (521) Fossil. Ins.

†*Pseudohumbertiella* **gen. n.** for *Humbertiella grandis* Br., HANDLIERSCH T.c. (522).

Puerula **nom. n.** pro *Cora* Br. 1878, BOLÍVAR (391) Madrid Bol. Soc. esp. Hist. nat. 6.

{*Pycnophlebia minor* Kalk Bavaria, HANDLIERSCH (520) Fossil. Ins., **sp. n.**

Pyrrhicia conradti Camerum, BOLÍVAR (329) Madrid Mem. Soc. esp. Hist. Nat. 1, **sp. n.**

Roxelana **nom. n.** for *Parysalis* Stål, KIRBY (352) Cat. Orthopt. 2.

Saga serrata, BÉRENGUIER Nîmes Bul. Soc. 33 (145-151) av. fig.

Semiophygias binotatus Fernando Po, GRIFFINI (373) Genova Ann. Mus. 42, **sp. n.**

Spizaphilus **nom. n.** for *Bulleria* Brunn., KIRBY (121) Cat. Orthopt. 2.

Stibaroptera **nom. n.** pro *Stibara* Br. 1878, BOLÍVAR (393) Madrid Bol. Soc. esp. Hist. Nat. 6.

Phyllophorae; stridulation, CARI Arch. Sci. phys. Genève 22 (406, 407).

Tapiena **nom. n.** for *Tapeina* Br., *minor* **sp. n.** Ashanti, BOLÍVAR (331) Madrid Mem. Soc. esp. Hist. nat. 1.

Tellidia Brunner, merged in *Tetraconcha*, BOLÍVAR (231-235) T.c.

Tetraconcha, synonymy, females described, BOLÍVAR (231-235) Madrid Bol. Soc. espan. Hist. Nat. 6.

Teuthras carminator Camerum, BOLÍVAR (375) Madrid Mem. Soc. esp. Hist. nat. 1, **sp. n.**

Tomias obliteratus Biafra, BOLÍVAR (357) T.c., **sp. n.**

Turpilia subinermis **sp. n.** Paraguay, CAUDELL Washington U. S. Nation. Mus. Proc. 30 (239).—*T. grandis* **sp. n.** Costa Rica, REHN (597) Washington U. S. Nation. Mus. Proc. 30.

Typhoptera **nom. n.** for *Capnoptera* Br., KIRBY (309) Cat. Orthopt. 2.

Udennus W. *nigrum*, BRUNNER (9) pl. ii f. 9 Résult Belgica, Zool.

Vossia doriae Fernando Po, GRIFFINI (395) Genova Ann. Mus. 42, **sp. n.**

Xiphelimum **gen. n.**, *amplipenis* **sp. n.** Paraguay, CAUDELL Washington U. S. Nation Mus. Proc. 30 (211).

Xiphidiola **gen. n.** *Meconemidae* (364), *nigrospinosa, concolor*, **spp. n.**, Fernando Po, (365), BOLÍVAR Madrid Mem. Soc. esp. Hist. Nat. 1.

Xiphidiopsis mitratus (373), *lubianus, lineatus*, (374), Fernando Po, BOLÍVAR T.c., **spp. n.**

Xiphidium strictoides **sp. n.** Paraguay, CAUDELL Washington U. S. Nation. Mus. Proc. **30** (242).

[*Zalmonites* **gen. n.**, *geinitzi* **sp. n.**, Lias Mecklenburg, HANDBLERSCH (422) Fossil. Ins.

The entries below have appeared previously in the Zoological Record.

(*Anabropsis marmorata*, *costaricensis*, REHN, Philadelphia Pa. Proc. Acad. Nat. Sci. **57** spp. n.)

(*Anaulacomera digitata* REHN, T.c. sp. n.)

(*Coeconotus rarus* REHN, T.c. sp. n.)

(*Conocephalus diversus* REHN, T.c. sp. n.)

(*Lichenochrus narmoratus* REHN, T.c. sp. n.)

(*Turpilia linearis* REHN, T.c. sp. n.)

ACRIDIIDAE.

Orthoptera of Western Europe, synopsis continued, BRER Ent. Rec. London 1906 (9-11 etc. etc.).

Acanthoxia **nom. n.** pro *Gonyacantha* Stål 1873, BOLÍVAR (392) Madrid Bol. Soc. esp. Hist. nat. **6**.

Aceridium succinetum, natural history, MAXWELL LEFROY, Mem. dep. Agric. Ind. entom. ser. **1**.

Ageneotettix arenosus **sp. n.** Illinois, HANCOCK (253). Ent. News **17**.

Aleamenes cristatus **sp. n.** Paraguay, BRUNER (650) Washington U. S. Nation. Mus. Proc. **30**.

Aleuas brachypterus **sp. n.** Paraguay, BRUNER (667) T.c. **30**.

Allotettix chipmani **sp. n.** Trinidad, BRUNER (116) New York J. Ent. Soc. **14**.

Amblyscaphus **gen. n.** (632) near *Staurorhectus*, *lineatus* **sp. n.** Paraguay (633), BRUNER Washington U. S. Nation. Mus. Proc. **30**.

Amblytropedia robusta **sp. n.** Paraguay, BRUNER (631) T.c.—*A. chapadensis* **sp. n.** Brazil, REHN Washington U. S. Nation. Mus. Proc. **30** (371).

Anconia grisea, California, *caeruleipennis* Nevada, BRUNER (186) Biol. Centr.-Amer. Orthopt. **2**, spp. n.

Amphibotettix **gen. n.** (86), *longipes* **sp. n.** Borneo (87), HANCOCK Ent. News **17**.

Apotettix bruneri (Hancock) **sp. n.** Paraguay, BRUNER (614) Washington U. S. Nation. Mus. Proc. **30**.

Apotropis **nom. n.** pro *Tritropis* Br. 1893, BOLÍVAR (393) Madrid Bol. Soc. esp. Hist. Nat. **6**.

Arnilia minor **sp. n.** Guatemala, BRUNER (9-13) Ohio Nat. **7**.—*A. coccineipes* **sp. n.** Paraguay, BRUNER (659) Washington U. S. Nation. Mus. Proc. **30**.

Aularches miliaris, natural history, GREEN Circ. Bot. Gard. Ceylon **3** (227-236).

Batrachidea notata (Hancock) **sp. n.** Paraguay, BRUNER (616) Washington U. S. Nation. Mus. Proc. **30**.

Borellia **gen. n.** near *Staurorhectus*, *carinata* **sp. n.** Brazil, REHN Washington U. S. Nation. Mus. Proc. **30** (379).

Brachystola ponderosa, *intermedia*, (194), *mexicana* pl. ii f. 4 (195), *eiseni* f. 5 (196), **spp. n.**, Central America; *B. behrensi* pl. ii f. 6; BRUNER Biol. Centr. Amer. Orthopt. **2**.

Bryodemus tuberculatum, Lebensweise, ADELUNG [SKALOZUBOV] Tobol'sk Ježeg. mus. **15** (1-18).

Bucephalacris paraguayensis **sp. n.** Paraguay, BRUNER (665) Washington U. S. Nation. Proc. **30**.

Calamaecris californica Lower California, pl. iv figs. 24 and 25, *mexicana* Mexico f. 26 (201), *palmeri* Lower California, *oculata* Arizona, (202); BRUNER Biol. Centr.-Amer. Orthopt. **2**.

Camula **nom. n.** pro *Calamus* Sauss. 1886, BOLÍVAR (391) Madrid Bol. Soc. esp. Hist. Nat. **6**.

Celes skalozubovi **sp. n.** Tobolsk, ADELUNG Tobol'sk Ježeg. mus. **15** (1-18).

Cephalocoema burmeisteri Paraguay, BRUNER (619) Washington U. S. Nation. Mus. Proc. **30**, **sp. n. ?**

Chlorus rittatus **sp. n.** Paraguay, BRUNER (690) Washington U. S. Nation. Mus. Proc. **30**.

Chrysochraon brachypterus Variabilität, WERNER Wien JahrBer. Entom. Ver. **16** (25-31).

Cireotettix rubula sp. n. Yellowstone Park, REHN and HEBARD (393) Philadelphia Proc. Acad. 58.

Coryotettix nom. n. for *Fenestra* Br. nec Gigl. T., REHN (39) Philadelphia Proc. Acad. Nat. Sci. 58.—*C. linearis* sp. n. Brazil, REHN Washington U. S. Nation. Mus. Proc. 30 (37-1).

Cornops scudleri sp. n. Guatemala, BRUNER (9-13) Ohio Nat. 7.

Cratilopus nom. n. pro *Cratippus* Stål 1875, BOLÍVAR (391) Madrid Bol. Soc. esp. Hist. nat. 6.

Cylindrotettix gen. n. near *Leptysmia*, *insularis* sp. n. Trinidad, BRUNER (153) New York J. Ent. Soc. 14.

Demonchares nom. n. pro *Demonax* Stål 1878, BOLÍVAR (391) Madrid Bol. Soc. esp. Hist. nat. 6.

Derocorys fumeipennis sp. n. Turgai-Gebiet, ADELUNG Mat. faun. flor. Ross. Zool. 7 (82-92).

Dichroplus robustus (679), *paraguayensis* (680), *dubius*, *brasiliensis*, (682), *cinctipes* (683), spp. n., Paraguay, BRUNER Washington U. S. Nation. Mus. Proc. 30.

Diedronotus nom. n. pro *Tropinotus* Serv. 1831, BOLÍVAR (393) Madrid Bol. Soc. esp. Hist. nat. 6.

Diponthus paraguayensis sp. n. Paraguay, BRUNER (657) Washington U. S. Nation. Mus. Proc. 30.

Dolotettix gen. n. *Tetriginæ*, *spinifrons* sp. n. New Guinea, HANCOCK (13) pl. i. l. 2 Genera Insectorum 48.

Duroniakalmyka sp. n. Turgai-Gebiet, ADELUNG Mat. faun. flor. Ross. Zool. 7 (82-92).

Eomorphopus gen. n. (37), for *Amorphopus antennatus* Bol., and *granulatus* sp. n. Dutch Guiana (38), HANCOCK Gen. Ins. fasc. 48.

Eotettix hebardii sp. n. Georgia, REHN (235) Ent. News 17 (231-237).

Epacromia teryestina var. n. *viridis*, MABILLE (40) Paris Ann. Soc. ent. 75.

Euxyalidinum gen. n. for part of *Gavialidinum dentumeris* sp. n. Borneo, HANCOCK (24) Gen. Ins. fasc. 48.

Eurotettix gen. n. (691) near *Chlorus*, *femoratus*, *minor*, spp. n., Paraguay, (692), BRUNER Washington U. S. Nation. Mus. Proc. 30.

Eurymorphopus gen. n. for *Amorphopus cinctatus* Bol., HANCOCK (35) Gen. Ins. fasc. 48.

Eurytettix gracilis Gigl.-Tos (as *Hyalopteryx*) = (*minor* Br.), REHN (15) Philadelphia Pa. Proc. Acad. 58.

Fenestra; validity (cf. *Coryotettix*), REHN (32) Philadelphia, Pa. Proc. Acad. 58.

Gigliotisia nom. n. pro *Scopas* Tos 1894, BOLÍVAR (393) Madrid Bol. Soc. esp. Hist. Nat. 6.

Gladiotettix nom. n. for *Nephela* Bol., HANCOCK (10) Gen. Ins. fasc. 48.

Gomphocerus rufus, Variabilität, WERNER Wien JahrBer. Entom. Ver. 16 (25-31).

Hippiscus immaculatus sp. n. Texas, MORSE (119) Psyche 13.

Hyalopteryx interrupta (Brunner?) = *lamellipes* sp. n., *specularis* sp. n. Paraguay, BRUNER (623) Washington U. S. Nation. Mus. Proc. 30.—*H. asinus* sp. n. Brazil, REHN (12) Philadelphia Proc. Acad. 58.

Hysiella nom. n. pro *Hysia* Stål 1876, BOLÍVAR (392) Madrid Bol. Soc. esp. Hist. nat. 6.

Iethygidion mexicanum SAUSS. BRUNER pl. iv f. 22 (202) Biol. Centr.-Amer. Orthopt. 2.

Inusia chipmari sp. n. Trinidad, BRUNER (154) New York J. Ent. Soc. 14.—*I. pallida* sp. n. Paraguay, BRUNER (660) Washington U. S. Nation. Mus. Proc. 30.

Isouyr gen. n. near *Borellia*, *paraguayensis* sp. n. Sapucay, REHN (36) Philadelphia Proc. Acad. 58.

Leiotettix gen. n. (684) near *Dichroplus*, *viridis* (685), *punctipes* (686), *sanguineus*, *flavipes*, (687), spp. n., Paraguay, BRUNER Washington U. S. Nation. Mus. Proc. 30.

Leptysmia minima sp. n. Trinidad, BRUNER (152) New York J. Ent. Soc. 14.—*L. argentina*, *gracilis*, spp. n., BRUNER (658) Washington U. S. Nation. Mus. Proc. 30.

Liotettix nom. n. pro *Prototettix* Bol. 1887, BOLÍVAR (393) Madrid Bol. Soc. esp. Hist. nat. 6.

Melanoplus scudleri var. n. *texensis*, HART (158) Ent. News 17.—*M. latens*

(120), *tepidus*, *tribuloides*, *tuberculatus*, (121), N. America, **spp. n.**; *M. scudderi latus* var. n. (122); MORSE *Psyche* 13.

Meloscirtus **gen. n.** near *Stenobothrus* (631), *australis* **sp. n.** Paraguay (635), BRUNER Washington U. S. Nation. Mus. Proc. 30.

Mesochlora unicolor **sp. n.** Texas, HART (157) *Ent. News* 17.

Mesopsis **nom. n.** pro *Mesops* Serv. 1839 [?], BOLÍVAR (392) Madrid Bol. Soc. esp. Hist. nat. 6.

Miriatrix **nom. n.** pro *Mitraria* Bol. 1887, BOLÍVAR (392) T.c.

Mucra **nom. n.** pro *Muceria* Stal. 1878, BOLÍVAR (392) T.c.

Munalia australis **sp. n.** Paraguay, BRUNER (644) Washington U. S. Nation. Mus. Proc. 30.

Nomotettix cristatus denticulatus var. n., MORSE (119) *Psyche* 13.

Omalotettix **gen. n.** (672) near *Jodacris*, *signatipes* **sp. n.** Paraguay (673), BRUNER Washington U. S. Nation. Mus. Proc. 30.

Orphula guatemalae **sp. n.** Guatemala, BRUNER (9-13) Ohio Nat. 7.

Orphulella obscura **sp. n.** Paraguay, BRUNER (627) Washington U. S. Nation. Mus. Proc. 30.—*Orphulella chipmami* (149), *insularis* (150), Trinidad, BRUNER New York J. Ent. Soc. 14, **spp. n.**—*Orphulella walkeri* **sp. n.** Guatemala, BRUNER (9-13) Ohio Nat. 7.

Orphulina veteratoria (21), *acuta* (23), Brazil, REHN Philadelphia Proc. Acad. 58, **spp. n.**

Orthoscapheus **gen. n.** (671) near *Jodacris*, *roseipennis* **sp. n.** Paraguay (672), BRUNER Washington U. S. Nation. Mus. Proc. 30.

Olumba marcapata Peru, *dentata* Costa Rica, HANCOCK (14) Gen. Ins. fasc. 48, **spp. n.**

Paracornops paraguayense, *aquaticum*, (663), *politum* (661), **spp. n.**, Paraguay, BRUNER Washington U. S. Nation. Mus. Proc. 30.

Paraleuas fosteri (669), *punctipennis* (670), Paraguay, *minor* Brazil (669), **spp. n.**, BRUNER T.c.

Parascopus **nom. n.** for *Scopus* Giglio-Tes, præc., BRUNER (689) T.c.

Paurotarsus rugosus **sp. n.** Trinidad, BRUNER (148) New York J. Ent. Soc. 14.

Phalaca **nom. n.** pro *Pheemonoe* Stal 1878, BOLÍVAR (392) Madrid Bol. Soc. esp. Hist. nat. 6.

Phelene **nom. n.** pro *Nephede* Bol. 1887, BOLÍVAR (392) T.c.

Phrynotettix; species tabulated (197), *P. tschicarenensis* Hald. pl. ii f. 1 (198), *robustus* figs. 2 and 3 (199); BRUNER Biol. Centr.-Amer. Orthopt. 2.

Platybothrus alticola **sp. n.** Utah, REHN (284) *Ent. News* 17.

Platytettix **gen. n.**, *reticulatus* **sp. n.** Peru, HANCOCK (80) *Ent. News* 17.

Plesiotettix **gen. n.** *Metrodorae*, *uncinatus*, *spinusus*, **spp. n.**, Peru. HANCOCK (31) Gen. Ins. fasc. 48.

Podisma oreas **sp. n.** Yellowstone Park, REHN and HERARD (102) Philadelphia Proc. Acad. 58.—*P. scudderi* **sp. n.** Alabama, MORSE (120) *Psyche* 13.

Podisma pedestris, Lebensweise. ADELUNG [SKALOZUBOV] Tobolisk Ježeg. mus. 15 (1-18).

Praxibulus **nom. n.** pro *Praxilla* Stål 1878, BOLÍVAR (393) Bol. Soc. esp. Hist. nat. 6.

Prostalia **nom. n.** pro *Pompholyx* Stal 1873, BOLÍVAR (393) T.c.

Pseudomitrvaria **gen. n.** for *pontificialis* Rehn, HANCOCK (50) Gen. Ins. fasc. 48.

Pycnogaster cucullatus Chapr., BOLÍVAR (390) Madrid Bol. Soc. esp. Hist. nat. 6.

Pycnosarcus **nom. n.** pro *Polysarcus* Sauss. 1859, BOLÍVAR (392) T.c.

Ramburiella **nom. n.** pro *Ramburia* Bol. 1879, BOLÍVAR (393) T.c.

Ramona **gen. n.** *Oedipodinae* (186), *deserticola* **sp. n.** California (187), BRUNER Biol. Centr.-Amer. Orthopt. 2.

Scabrotettix **gen. n.** for part of *Metrodora* (16), *scabrosus*, *bolivianus*, *acutilobus*, Bolivia, **spp. n.**, (47), HANCOCK Gen. Ins. fasc. 48.

Searia producta Peru, HANCOCK (70) T.c., **sp. n.**

Scotussa rubripes Paraguay (688), *brasiliensis* Brazil (689), **spp. n.**, BRUNER Washington U.S. Nation. Mus. Proc. 30.

Scyllina uniformis (381), *suffusa* (385), *smithi* (387), *schistocercoides* (388), **spp. n.**, Brazil, REHN Washington U. S. Nation. Mus. Proc. **30**.—*S. instabilis* **sp. n.** Brazil, REHN (42) Philadelphia Proc. Acad. **58**.

Sitalecs trinitatis **sp. n.** Trinidad, BRUNER (155) New York J. Ent. Soc. **14**.

Sphenarium bolivari, *marginatum*, (205), *rugosum*, *barretti*, (206), *planum*, *minimum*, (207), **n. spp.**, Mexico; *S. borrei* Boliv. pl. iv. f. 21; BRUNER Biol. Centr.-Amer. Orthopt. **2**.

Sphingonotus grobbei Egypt, WERNER (118) Wien Sitz. Ber. Ak. **114** Abt. 1, **sp. n.**.—*S. suschkini* **sp. n.** Turgai-Gebiet, ADELUNG Mat. faun. flor. Ross. Zool. **7** (82-92).

Staurorhectus longicornis subsp. n. *variegatus*, *brevipennis* **sp. n.** Brazil, REHN Washington U. S. Nation. Mus. Proc. **30** (377).—*S. glaucipes* **sp. n.** Paraguay, REHN (34) Philadelphia Proc. Acad. **58**.

Stenobothrus brölemanni Pyrénées-or., AZAM (128) Paris Bull. Soc. ent. **1906**, **sp. n.**.—*S. biguttulus*, *lineatus*, WERNER Wien JahrBer. Entom. Ver. **16** (25-31).—*S. biguttulus*, Lebensweise, ADELUNG [SKALOZEBOV] Tobolisk Ježeg. mus. **15** (1-18).

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Stethophyma flavicosta var. n. *turgaica* Turgai-Gebiet, ADELUNG Mat. faun. flor. Ross. Zool. **7** (82-92).

Stirapleura brunnea **sp. n.** Brazil, REHN Washington U. S. Nation. Mus. Proc. **30** (390).—*S. bruneri* nom. n. for *signatipennis* Br., REHN (49) Philadelphia Proc. Acad. **58**.

Tanaoceris **gen. n.** *Oedipodinae* (191), *koebeli* California **sp. n.** (192), BRUNER Biol. Centr.-Amer. Orthopt. **2**.

Taxiarchus paracensis **sp. n.** Amazons, REHN Ent. News **17** (332-334).

Tefrinda **nom. n.** pro *Chthonius* Bol. 1887, BOLÍVAR, (391) Madrid Bol. Soc. esp. Hist. nat. **6**.

Teredorus **gen. n.** *Tetrigidae* (52), *stenofrons* **sp. n.** Peru (53) pl. iv. f. 12, HANCOCK Gen. Ins. fasc. **48**.

Tettigidea trinitatis, *imperfecta*, Trinidad, BRUNER (117) New York J. Ent. Soc. **14**, **spp. n.**

Tettix gracilis **sp. n.** Trinidad, BRUNER (115) T.c.

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Tropinotus mexicanus Mexico (615), *affinis* (616), *lineatus* (618), Paraguay, **spp. n.**, BRUNER Washington U. S. Nation. Mus. Proc. **30**.

Tytlhotyle maculata Brun. pl. ii f. 9 (197); BRUNER Biol. Centr.-Amer. Orthopt. **2**.

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(*Plectrotettix varipes* Paraguay, BRUNER Ent. News **16** 1905 (211-216) **sp. n.**)

(*Scoloccephalus* **gen. n.**, *mirabilis* **sp. n.** Costa Rica BRUNER, Ent. News **16** 1905 (313-316).)

(*Taxiarchus septentrionalis* Costa Rica BRUNER Ent. News **16** 1905 (313-316), **sp. n.**)

(*Tropinotus gracilis*, *regularis*, BRUNER, Ent. News, **16**, 1905, (214-216), **spp. n.**).

(*Zygoclistron* **gen. n.**, *trachystictum* **sp. n.** Paraguay REHN, Ent. News **16** 1905 (37-42).)

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Metamorphosis in *Thysanura*, new terms; HEYMONS (253) Berlin SitzBer. Ges. naturf. Fr. 1906.

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Hematelura gen. n. (738), *conrivens* sp. n. Para (739), ESCHERICH Zool. Anz. **30**.

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Machilinus geayi Fr. Guiana, SILVESTRI (334) Redia **3**, sp. n.—*M. rupestris*, aus Bessarabien; Lebensweise, SHUGUROV Rev. russ. ent. **6** (29-31).

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Anatomy and development of *Anurida maritima*, and affinities of *Collembola*; LAMS L.M.B.C. Memoir **13** (1-99) 7 plates.

Apterygotenfauna des nördlichen Norwegens, LIE-PETERSEN Tromsø Mus. Aarsh. **28** (51-76) mit 1 Taf.

Epithelial function, *Collembola*; FOISSON and WELLES Urbana Stud. Univ. Ill. **2** No. 2.

The collembolan eye, GUTHRIE Moines Proc. Iowa Acad. Sci. **13** 1906 (239-243).

Histology, FILIPITSCHENKO Zs. wiss. Zool. Leipzig **85** (270-301) 2 Taf.

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ARRANGED BY I. B. J. SOLLAS

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I.—TITLES.

Alder, J. and Hancock, A. The British Tunicata, an unfinished monograph. (Posthumous.) Edited by J. Hopkinson. Vol. 2, 1906. Printed for the Ray Society, London, (xxviii + 162, 50 pls.).

Apstein, C[arl]. 1. Die Salpen der deutschen Südpolar-Expedition 1901–1903, (Deutsche Südpolar-Expedition 1901–1903, 9). Berlin (G. Reimer), 1906, (155–203, 3 Taf.).

Apstein, C. 2. Salpen der deutschen Tiefsee-Expedition. Wissensch. Ergebnisse d. D. Tiefsee-Expedition. 12. Lfg 3. Jena (G. Fischer), 1906, (245–290, 7 Taf.). 35 cm. 11 M.

Ayers, Howard. The unity of Gnathostome type. Amer. Nat., Boston, Mass., 40, 1906, (75–94).

Biberhofer, Raoul. Ueber Regeneration bei *Amphioxus lanceolatus*. Arch. EntwMech., Leipzig, 22, 1906, (15–17).

Bochenek, A. Badania nad budową systemu nerwowego centralnego osłonic i szkarłupni (*Anodonta*, *Ciona*, *Synapta*). [Untersuchungen über das zentrale Nervensystem der Wirbellosen. (*Anodonta*, *Ciona*, *Synapta*).] Kraków, Rozpr. Akad., 45 B., 1905, (262–277, mit 1 Taf. und 2 Fig.).

Brooks, William Keith. 1. The affinities of the pelagic Tunicates. No. 1. On a new *Pyrosoma*. (*Dipleurosoma elliptica*.) Washington, D.C., Mem. Nation. Acad. Sci., 10, 1906, (149–156, pl.).

Brooks, W. K. 2. *Dipleurosoma*, a new genus of *Pyrosoma*. Baltimore, Md., Johns Hopkins Univ. Cir., 1906, No. 5, (98–99).

Conklin, Edwin G. 1. Mosaic development in ascidian eggs. J. Exp. Zool., Baltimore, Md., 2, 1905, (145–223).

Conklin, E. G. 2. Does half of an Ascidian egg give rise to a whole larva? Arch. EntwMech., Leipzig, 21, 1906, (727–753).

Derjugin, K. M. Die Murmansche Biologische Station 1899–1905. St. Peterburg, Trav. Soc. nat., 37, 1906, (1–179).

Doflein, F. Fauna und Ozeanographie der japanischen Küste. Leipzig, Verh. D. Zool. Ges., 1906, (62–72).

Edinger, L[udwig]. Einiges vom „Gehirn“ des *Amphioxus*. Anat. Anz., Jena, 28, 1906, (417–428).

Farran, G. P. On the distribution of the Thaliacea and *Pyrosoma* in Irish waters. Dublin, Fish. Ireland. Sci. Invest., 1906, i, (1–17).

Felix. Geschlechtsorgane des *Amphioxus*. [In] Hertwig, Handbuch der Entwicklungslehre der Wirbeltiere, Lief. 29, 30, (625–639, 742, 823).

Fernandez, Miguel. Zur Kenntnis des Pericardkörpers einiger Ascidien. Jenaische Zs. Natw., 41, 1906, (1–18, 1 Taf.).

Froriep, August. Ueber die Herleitung des Wirbeltierauges vom Auge der Ascidienlarve. Anat. Anz., Jena, 29, 1906, Erg.H., (145–151).

Goldschmidt, R[ichard]. *Amphioxides* und *Amphioxus*. Zool. Anz., Leipzig, 30, 1906, (443–448).

Hartmeyer, R[obert]. 1. Die Ascidien von Helgoland. (Beiträge z. Meeresfauna v. Helgoland, hrsg. v. d. biolog. Anstalt Helgoland. 15.) Wiss.

Meeresunters., Kiel, N.F., **8**, Abt. Helgoland, 1906, (117-127).

Hartmeyer, R. **2.** Ein Beitrag zur Kenntnis der japanischen Ascidienfauna. Zool. Anz., Leipzig, **31**, 1906, (1-30).

Hatschek, B[erthold]. Studien zur Segmenttheorie des Wirbeltierkopfes. Mitt. 1: Das Acromerit des *Amphioxus*. Morph. Jahrb., Leipzig, **35**, 1906, (1-14, 1 Taf.).

Herdman, W. A. Report on the Tunicata collected by Professor Herdman at Ceylon in 1902. London, Rep. Pearl Oyster Fish., **5**, 1906, (295-348).

Ihle, Johan Egbert Willem. Bijdragen tot de kennis van de Morphologie en Systematiek der Appendicularien. [Beiträge zur Kenntnis der Morphologie und Systematik der Appendicularien.] Leiden (E. J. Brill), 1906, (98, 3 Taf.). 33 cm.

Jelgersma, G. Der Ursprung des Wirbeltierauges. Vortrag. Morph. Jahrb., Leipzig, **35**, 1906, (377-394, 1 Taf.).

Johnston, J[ohn] B[lack]. The cranial and spinal ganglia and the visceromotor roots in *Amphioxus*. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **9**, 1905, (112-127).

Metcalf, Maynard M. *Salpa* and the phylogeny of the eyes of vertebrates. Anat. Anz., Jena, **29**, 1906, (526-528).

Morgan, T. H. Self-fertilization induced by artificial means. J. Exp. Zool., Baltimore, Md., **1**, 1904, (135-178).

Neumann, Günther. *Doliolum*. (Wissenschaftl. Ergebnisse d. D. Tiefsee-Expedition. **12**, Lfg 2.) Jena (G. Fischer), 1906, (93-243, 14 Taf. u. 1 Karte). 34 cm. 32,50 M.

Oka, Asajirō. **1.** *Aphanibranhion*, eine neue Synascidiengattung aus Japan. Annot. Zool. Jap., Tokyo, **5**, 1906, (253-265, pl.).

Oka, A. **2.** Notizen über japanische Ascidien. I. Annot. Zool. Jap., Tokyo, **6**, 1906, (37-52).

Parker, G[eorge] H[oward]. The reactions of *Amphioxus* to light. [Abstract.] New York, N.Y., Proc. Soc. Exp. Biol. Med., **3**, 1906, (61-62).

Pennetier, G. Tuniciers, acquisitions. Actes Muséum hist. nat., Rouen, **10**, 1906, (26-27).

Pizon, Antoine. **1.** L'évolution des colonies de *Diplosoma spongiforme* Giard et la displanchtonie des Ascidiozoïdes. Paris, C.-R. Acad. sci., **142**, 1906, (463-465).

Pizon, A. **2.** L'évolution des Diplosomes (Ascidies composées). Arch. zool., Paris, sér. 4, **4**, 1905, (1-68, pl.).

Redikorzew, W. **1.** Notiz über die Ascidien des Weissen Meeres. St. Peterburg, Trav. Soc. nat., **37**, 1906, C.R. (307-310), deutsches Rés. (366).

Redikorzew, W. **2.** Ueber das Sehorgan der Salpen. Morph. Jahrb., Leipzig, **34**, 1905, (204-239, 1 Taf.).

Rennie, J. and Wiseman, H. On collections of the Cape Verde Island marine fauna, made by Cyril Crossland, of St. Andrew's University, July to September, 1904. London, Proc. Zool. Soc., **1906**, (903-911, pls. lxiv-lxv).

Retzius, Gustaf. Die Spermien der Enteropneusten und der Nemertinen. [In] Retzius, Biolog. Untersuchungen, N.F., **13**. Jena (G. Fischer), 1906, (37-40, 1 Taf.).

Ritter, William E[merson]. **1.** *Ocutenemus*. [Reports on the Scientific results of the expedition to the Eastern Tropical Pacific, in charge of Alexander Agassiz, by the U. S. Fish Commission Steamer "Albatross," from October, 1904, to March, 1905.] Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**, 1906, (231-252 + 3 l., 3 pls.).

Ritter, W. E. **2.** *Cycolosalpa retracta*, a new Salpoid from the coast of Japan. Annot. Zool. Jap., Tokyo, **6**, 1906, (1-5).

Schmitt. Monographie de l'Île d'Anticosti. 1904, Ascidiae, (126, 281). 8vo.

Scott, A. Report on the investigations carried on during 1905 in connection with the Lancashire Sea-fisheries Laboratory at the University of Liverpool, and the sea fish hatchery at Piel, near Barrow. 4. On the tow-nettings. Liverpool, Proc. Trans. Biol. Soc., **20**, 1906, (164-190).

Sluiter. **1.** Note préliminaire sur les Ascidien holosomates de l'Expédition

antarctique française commandée par le Dr. Charcot. *Bul. Muséum, Paris, 1905*, (470).

Sluiter. 2. Seconde note sur les tuniciers recueillis dans l'Antarctique par l'Expédition du Dr. Charcot. *Bul. Muséum, Paris, 1906*, (550-555).

Wijhe, J[an] W[illem] van. Die Homologisierung des Mundes des *Amphioxus* und die primitive Leibesgliederung der Wirbeltiere. *Petrus Camper, Bijdr. Anat., Haarlem, 4, 1906*, (61-102, 1 Taf.).

Willey, A. Review of Dr. Richard Goldschmidt's monograph of *Amphioxides*. *Q. J. Microsc. Sci., London, 50, 1906*, (581-597).

Wiseman, H. *vide* Rennie, J.

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Geographical distribution of Tunicata, **HERDMAN**, London, Rep. Pearl Oyster Fish., 5, (296).

Salpen der deutschen Tiefsee-Expedition, **APSTEIN**, Wissensch. Ergebnisse d. D. Tiefsee-Expedition, 12, Jena, (245–290, mit 7 Taf.).

Salpen der deutschen Südpolar-Expedition, **APSTEIN**, Deutsch. Südpolar-Exp., 9, H. 3, (155–203, 3 Taf.).

Japanische Ascidien. I. **Oka**, Annot. Zool. Jap., Tokyo, 6, (37–52).

Beitrag zur Kenntnis der japanischen Ascidienfauna, **HARTMEYER**, Zool. Anz., 31, (1–30).

Die Ascidien von Helgoland, **HARTMEYER**, Wiss. Meeresunters., Kiel, (N.F.), 8, Abt. Helgoland, (117–127).

L'évolution des Diplosomes (Ascidies composées), **PIZON**, Arch. zool., Paris, (sér. 4), 4, 1905, (1–68, av. pl.).

Homologisierung des Auges der Ascidienlarve mit der Augenblase der Vertebratenembryonen, **FRORIEP**, Anat. Anz., 29, Erg.H., (145–151).

Salpen, Verbreitung, Verteilung, zeitliche Verteilung, Conservierung, Nervensystem, Uebersicht aller bekannten Arten mit Bestimmungstabelle, Tabelle über die Stationen der Deutschen Südpolar-Expedition mit den an denselben gefundenen Salpen, **APSTEIN**, Deutsche Südpolar Expedition, 1901–1903, 9, (160).

Amaroucium crosslandii sp. n. C. Verde Is.; **RENNIE** and **WISEMAN**, London, Proc. Zool. Soc., 1906, 2, (909, pl. LXV).—*A. meridianum, coeruleum*, spp. n., Antarctique, (names only); **SLUITER**, Bul. Muséum, Paris, 1906, (553).

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Appendicularia; Systematik und Morphologie; **INLE**, Beitr. Kennt. Appendicularien, 1906, (98, 3 Taf.).

Ascidia armata, (19), *longistriata*, (20), spp. n., Japanisches Meer, **HARTMEYER**, Zool. Anz., 31.—*A. charcoti* sp. n., Ile Wandel, **SLUITER**, Bul. Muséum,

Paris, 1905, (472).—*A. domani*, *polytremata*, **spp. n.**, Ceylon Seas, HERDMAN, London, Rep. Pearl Oyster Fish., 5, (303–306).

Boltenia turqueti, *salebrosa*, **spp. n.**, Antaretique, SLUITER, Bul. Muséum, Paris, 1905, (474).

Botrylloides chevalense, *nigrum*, **spp. n.** Ceylon Seas, HERDMAN, London, Rep. Pearl Oyster Fish., 5, (333).

Botryllus ater **sp. n.**, Ceylon Seas, HERDMAN, l.c. (333).

Chelyosoma dofleini **sp. n.** Sagami-bucht, HARTMEYER, Zool. Anz., 31, (22).—*C. siboya* **sp. n.**, Japanische Küste, OKA, Annot. Zool. Jap., 6, (51).

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Colella arenosa **sp. n.** Ceylon Seas, HERDMAN, London, Rep. Pearl Oyster Fish., 5, (334).

Corella antaretica **sp. n.** Ile Wandel, SLUITER, Bul. Muséum, Paris, 1905, (471).

Ctenicella ridgewayi **sp. n.** Ceylon seas, HERDMAN, London, Rep. Pearl Oyster Fish., 5, (307, pl. iv).

Cyclosalpa floridana und *virgula*, weiter beschrieben und abgebildet, APSTEIN, Wissensch. Ergebnisse d. D. Tiefsee-Expedition, 12, (247).—*C. retracta* **sp. n.** Coast of Japan, RITTER, Annot. Zool. Jap., Tokyo, 6, (1–5).

Cynthia orata **sp. n.** Guernsey, ALDER and HANCOCK, British Tunicata, 2, (84).—*C. transversaria* Sluiter, var. *manaarensis* var. n., *C. aripuensis*, *lanka*, **spp. n.**, Ceylon Seas, HERDMAN, London, Rep. Pearl Oyster Fish., 5, (312).

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Dipleurosoma **gen. n.**, *elliptica* **sp. n.** Surface waters off Beaufort, N.C.. BROOKS, Baltimore, Md., Johns Hopkins Univ. Circ., 187, (98); Washington, D.C., Mem. Nation. Acad. Sci., 10, (149–156).

Diplosoma spongiforme, bourgeonnement, PIZON, Paris, C.-R. Acad. sci.,

142, (463–465).—*D. viride* **sp. n.** Ceylon Seas, HERDMAN, London, Rep. Pearl Oyster Fish., 5, (341).

Distaplia, zentrales Nervensystem, BOCHENEK, Kraków, Rozpr. Akad., 45 B, 1905, (262–277).

Distoma glareosa **sp. n.** Antaretique, (name only), SLUITER, Bul. Muséum, Paris, 1906, (553).

Doliolum; Arten, Verbreitung, Entwicklungsgeschichte.—*D. indicum*, *intermedium*, *valdiviae*, *ekuni*, Atlantic India, **spp. n.**, NEUMANN, Wiss. Ergebn. deutsch. Tiefsee-Exp., 12, Lfg 2, (210–221).

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Leptoelimum biglans **sp. n.** Antaretique (name only), SLUITER, Bul. Muséum, Paris, 1906, (554).—*L. margaritiferae*, *ceylonicum*, *ramosum*, *viride*, **spp. n.** Ceylon Seas, HERDMAN, London, Rep. Pearl Oyster Fish., 5, (337).

Lissamaroucium **gen. n.**, *magnum* **sp. n.** Antaretique, (name only), SLUITER, Bul. Muséum, Paris, 1906, (553).

Megalocercus huxleyi, Anatomie, Beschreibung, IHLE, Beitr. Kennt. Appendicularien, Leiden, 1906, (98, 3 Taf.).

Microcosmus hartmeyeri **sp. n.** Japanische Küste, OKA, Annot. Zool. Jap., 6, (49).—*M. manaarensis*, *longitubis*, **spp. n.**, Ceylon seas, HERDMAN, London, Rep. Pearl Oyster Fish., 5, (311, pls. ii, iii).

Molgula valvata **sp. n.**, ALDER and HANCOCK, Hebrides, British Tunicata, 2, (49).—*M. japonica* **sp. n.** Yokohama, HARTMEYER, Zool. Anz., 31, (2).—*M. maxima* **sp. n.** Ile Wandel et île Auvers, SLUITER, Bul. Muséum, Paris, 1905, (472).—*M. taprobane* **sp. n.** Ceylon seas, London, Rep. Pearl Oyster Fish., 5, (307, pl. iv).

Octacnemus, general description of genus, *O. herdmani* sp. n., RITTER, Cambridge, Mass., Bull. Mus. Comp. Zool., Harvard Coll., 46.

Perophora hornelli sp. n. Gulf of Manaar, HERDMAN, London, Rep. Pearl Oyster Fish., 5, (298, pl. i).

Pharyngodictyon reductum sp. n. Antarctique, (name only), SLUITER, Bul. Muséum, Paris, 1906, (553).

Polycarpa döderleini (15), *maculata* (17), spp. n., Japanisches Meer, HARTMEYER, Zool. Anz., 31.—*P. mutilans*, *sluiteri*, *chalmersi*, *alentura*, *decipiens*, *palkensis*, *colletti*, *willisi*, *twynami*, *manaarensis*, spp. n. Ceylon seas, HERDMAN, London, Rep. Pearl Oyster Fish., 5, (319).

Polystyelidae: Family name discussed, HERDMAN, T.c. (328).

Psammaphidium ceylonicum, *aurantiacum*, spp. n. Ceylon seas, HERDMAN, T.c. (335).—*P. ordinatum*, *triplex*, *radiatum*, *annulatum*, spp. n. (name only), Antarctique, SLUITER, Bul. Muséum, Paris, 1906, (553).

Pyrosoma; distribution in Irish waters. FARRAN, Fish. Ireland Sci. Invest., I, (1-17).

Rhabdocynthis ceylonica sp. n. Ceylon seas, HERDMAN, London, Rep. Pearl Oyster Fish., 5, (309, pl. iii).

Rhodosoma ceylonicum sp. n. Ceylon seas, HERDMAN, T.c. (301, pl. i).

Salpa echinata nur „Forma“ der *S. fusiformis*; *S. amboinensis*, *punctata*, *picteti*, *mucronata*, *magalhanica*, *henseni*, beschrieben und abgebildet; APSTEIN, Wissensch. Ergebn. d. D. Tiefsee-Expedition, 12, (250).

Sarcobotrylloides wyvillii Herdm. described and figured, *S. parvum* sp. n., RENNIE and WISEMAN, London, Proc. Zool. Soc., 1906, (906).

Styela humilis (116), *variabilis* (117), *obscura* (119), *fibrillata* (125), *depressa* (126), *northumbria* (127), spp. n., ALDER

and HANCOCK, British Tunicata, 2.—*S. flexibilis*, *grahami*, spp. n., De Wandel, SLUITER, Bul. Muséum, Paris, 1905, (473).—*S. irene* (7), *esther* (8), *elsa*, *fertilis*, (10), *sigma* (12), *clara* (13), spp. n., Japanisches Meer, HARTMEYER, Zool. Anz., 31.—*S. kroboja* sp. n. Japanische Küste, OKA, Annot. Zool. Jap., 6, (50).—*S. lapidosa*, *ascidioides*, *pigmentata*, spp. n., Ceylon seas, *areolata*, Heller redescribed, HERDMAN, London, Rep. Pearl Oyster Fish., 5, (315).

Styelopsis sphaerica (132), *lineata* (133), spp. n., ALDER and HANCOCK, British Tunicata, 2.

Thaliacea; distribution in Irish waters, FARRAN, Fish. Ireland Sci. Invest., 1, (1-17).

Thylacium aggregatum var. *maculatum* var. n., ALDER and HANCOCK, British Tunicata, 2.

(2). CEPHALOCHORDATA.

Amphioxides und *Amphioxus*, GOLDSCHMIDT, Zool. Anz., Leipzig, 30, (443-448).

Amphioxides; review of Goldschmidt's monograph, WILLEY, Q. J. Microsc. Sci., 50, (581-597).

Amphioxus, Homologisirung des Mundes, WIJHE, Petrus Camper, Bijdr. Anat., Haarlem, 4, (61-102, 1 Taf.).

Amphioxus, relationship and homologies, AYERS, Amer. Nat., Boston, Mass., 40, 1906 (75); Acromerit, HATSCHKE, Morph. Jahrb., Leipzig, 35, 1906, (1-14, 1 Taf.); Gehirn, EDINGER, Anat. Anz., 28, (417-428).—*A. lanceolatus*, Regeneration, BIBERHOFFER, Arch. Entw. Mech., 22, (15-17).

(3). ENTEROPNEUSTA.

Enteropneusta, Spermen, RETZIUS Biolog. Untersuchungen, N.F., 13, Jena, (37).

XIV. VERTEBRATA

(GENERAL)

i.e., complementary to Mammalia, Aves, Reptilia, and Pisces

ARRANGED BY D. SHARP

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I.—TITLES.

Albrecht, Eugen. Die Hülle der roten Blutkörperchen, ihre physiologische und pathologische Bedeutung. München, SitzBer. Ges. Morph., **19**, (1903), 1904, (16-22).

Ayers, Howard. The unity of the gnathostome type. Amer. Nat., Boston, Mass., **40**, 1906, (75-94).

Bangs, Outram. Introduction [to papers by O. Bangs, J. E. Thayer, T. Barbour and S. Garman]. (Vertebrata from the Savanna of Panama.) [Papers from the John E. Thayer Expedition of 1904, No. **3**], Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**, 1906, (211).

Barbieri, Ciro. Differenziamenti istologici nella regione ottica del cervello di Teleostei ed Anfibi anuri. Milano, Atti Soc. ital. sc. nat., **44**, fasc. 3°, 1906, (165-192, con 2 fig. e 1 tav.).

Bardleben, Karl von. Die Homologie des Unterkiefers in der Wirbeltierreihe. C.-R. ass. anat., 7^e session (Genève), **1905**, Nancy, 1906, (140).

Barfurth, Dietrich. Die Regeneration peripherer Nerven nach Experimenten von C. F. Walter. C.-R. ass. anat., 7^e session (Genève), **1905**, Nancy, 1906, (164).

Barfurth, D. *vide* Hertwig, O.

Barnabò, Valentino. La glandula interstiziale del testicolo. Storia, Morfologia, etc. Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (289-302, continua).

Baum, H. Handbuch der vergleichenden mikroskopischen Anatomie der Haustiere. Hrsg. von W. Ellenberger. Bd **1**. Berlin (P. Parey), 1906, (viii + 601). 25 cm. 22 M.

Bethe, Albrecht. Bemerkungen zur Zellkettentheorie. Anat. Anz., Jena, **28**, 1906, (604-606).

Botezat, Eugen. Die Nervenendapparate in den Mundteilen der Vögel und die einheitliche Endigungsweise der peripheren Nerven bei den Wirbeltieren. Zs. wiss. Zool., Leipzig, **84**, 1906, (205-360, 5 Taf.).

Braun, F[ritz]. Die Säugetiere und Vögel Konstantinopels und seiner Umgebung. Danzig, Ber. bot.-zool. Ver., **28**, 1906, (8-12).

Cannon, George L[yman]. Notes on some fossils recently discovered near Denver, Colorado. Denver, Proc. Colo. Sci. Soc., **8**, 1906, (194-198, with pl.).

Capparelli, A. La fina struttura delle fibre nervose a doppio contorno. Catania, Atti Acc. Gioenia, Ser. 4, **18**, 1905, Mem. I, (1-14, 2 tav.).

Chaine, J. La réforme de la nomenclature myologique. Nancy, C.-R. soc. anat., **8**, 1906, (1-2).

Ciaccio, Carmelo. Rapporti istogenetici tra il simpatico e le cellule cromaffini. Ricerche istologiche. Archivio ital. Anat. Embriol., Firenze, **5**, 1906, (256-267, 1 tav.).

Cole, Leon J. Introduction. (Vertebrata from Yucatan. 1.) Cambridge, Mass., Bull. Mus. Comp. Zool., Harvard Coll., **50**, 1906, (101-106).

Collin, R. Sur l'évolution de la substance chromatophile dans la cellule nerveuse (à propos d'une Note de M. J. Lache). Paris, C.-R. soc. biol., **61**, 1906, (244-246); Réunion biologique de Nancy, **1906**, (44-46).

Drüner, L. Die Kiemenbögen der Wirbeltiere und ihre Abkömmlinge. Frankfurt a. M., Ber. Senckenb. Ges., **1906**, (6*-10*).

Eggeling, H[einrich]. Clavicula, Praeclavium, Halsrippen und Manubrium sterni. Berichtigung und Zusammenfassung. *Anat. Anz.*, Jena, **29**, 1906, (99-110).

Engel, C[onrad] S[amuel]. Ueber kernlose Blutkörperchen bei niederen Wirbeltieren. *Anat. Anz.*, Jena, **29**, 1906, (144-147).

Enriques, Paolo. Della economia di sostanza nelle ossa cave. *Arch. Entw.-Mech.*, Leipzig, **20**, 1906, (427-465).

Fano, Da Corrado. Osservazioni sulla fine struttura della nevroglia. Roma, Ric. Lab. anat. norm., **12**, fasc. 2-3, 1906, (101-176, 5 tav.).

Fichera, G. Contributo sperimentale allo studio della mucosa gastrica. Roma, Ric. Lab. anat. norm., **10**, fasc. 1, 1904, (63-95, 1 tav.).

Filatoff, D. Zur Frage über die Anlage des Knorpelschädels bei einige Wirbeltieren. *Anat. Anz.*, Jena, **29**, 1906, (623-633).

Fleischmann, Albert. 1. Morphologische Studien über Kloake und Phallus der Amnioten. (2. Forts.) *Morph. Jahrb.*, Leipzig, **34**, 1905, (246-320, 2 Taf.).

Fleischmann, A. 2. Morphologische Studien über Kloake und Phallus der Amnioten. (3. Forts.) *Morph. Jahrb.*, Leipzig, **35**, 1906, (15-74, mit 2 Taf.).

Fleischmann, A. 3. Morphologische Studien über Kloake und Phallus der Amnioten. (4. Forts.) *Morph. Jahrb.*, Leipzig, **36**, 1906, (1-26, mit 2 Taf.).

Fleischmann, A. 4. Stileinheit der Amnioten? [In] Festschrift für I. Rosenthal Tl 1. Leipzig (G. Thieme), 1906, (83-88).

Freund, Ludwig. Die Hyperdaktylie. *Zs. Tiermed.*, Jena, **10**, 1906, (110-117).

Froriep, August. 1. Ueber die Herleitung des Wirbeltierauges vom Auge der Ascidienlarve. *Anat. Anz.*, Jena, **29**, ErgH., 1906, (145-151).

Froriep, A. 2. Sur la genèse de la partie occipitale du crâne. C.-R. ass. anat., 7^e session (Genève), **1905**, Nancy, (156-157).

Fusari, R[omeo]. Alcune osservazioni di fina anatomia nel campo del sistema nervoso periferico. Torino, Giorn. Acc. med., **65**, 1902, (426-428).

Gaupp, E. Die Nicht-Homologie des Unterkiefers in der Wirbelthierreihe. C.-R. ass. anat., 7^e session (Genève), **1905**, Nancy, 1906, (159-161, av. fig.).

Géraudel, Emile. Origine du foie et signification du mésoderme. Paris, C.-R. soc. biol., **60**, 1906, (1047-1049).

Gerhartz, Heinrich. Multiplizität von Hoden und Leber. *Anat. Anz.*, Jena, **28**, 1906, (522-528).

Gilmore, Charles W[hitney]. Notes on some recent additions to the exhibition series of vertebrate fossils. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, 1906, (607-611, with pl.).

Göppert, E[rnst]. Bemerkungen zu: A. Fleischmann, das Kopfskelett der Amnioten. Morphogenetische Studien. 2 Forts. (*Morph. Jahrb.* Bd 32 H. 1. 1905). *Morph. Jahrb.*, Leipzig, **33**, 1905, (532-534).

Günther, A. Ergänzungen und Berichtigungen zur Abhandlung: „Das Sammeln von Reptilien, Batrachiern und Fischen.“ [In] Anleitung zu wiss. Beobachtungen auf Reisen. 3. Aufl. Bd 2. Hannover (M. Jänecke), 1906, (846).

Harvie-Brown, J. A. A Vertebrate fauna of Scotland. Tay basin and Strathmore. Edinburgh, 1906, (lxxxvi + 377, 21 pls. and 5 maps). Small 4to.

Hatschek, B[erthold]. Studien zur Segmenttheorie des Wirbeltierkopfes. Mitt. I. Das Acromerit des *Amphioxus*. *Morph. Jahrb.*, Leipzig, **35**, 1906, (1-14, 1 Taf.).

Hertwig, Oscar. 1. Handbuch der vergleichenden und experimentellen Entwicklungslehre der Wirbeltiere, bearb. v. [Dietrich] Barfurth [u. A.] . . . Lfg 27-30 [Schluss]. Jena (G. Fischer), 1906, (1019-1297, 369-378, 513-638, 497-909, 871-890, 145-184, 463-468, 267-270, nebst Titelblättern). 26 cm. Die Lfg 4,50 M.

Hertwig, O. 2. Précis d'Embryologie de l'Homme et des Vertébrés (trad. par L. Mercier). Paris (Steinheil), 1906, (viii + 531, av. fig.). 26 cm. 15 fr.

Jaekel, Otto. Einige Beiträge zur Morphologie der ältesten Wirbeltiere. Berlin, SitzBer. Ges. natf. Freunde, **1906**, (180-189).

Jelgersma, G. Der Ursprung des Wirbeltierauges. Vortrag . . . Morph. Jahrb., Leipzig, **35**, 1906, (377-394, mit 1 Taf.).

Johnston, J[ohn] Black]. The nervous system of vertebrates. Philadelphia (Blakiston), 1906, (xx + 370, with 180 illustr.). 24 cm.

Jourdain. Le liquide cérébro-spinal. Paris, Bull. ass. franç. avanc. sci., **1905**, (332-333).

Keibel, F[ranz]. Die Entwicklungsgeschichte des Wirbeltierauges. Klin. Monatsbl. Augenheilk., Stuttgart, **44**, N.F.), **2**, 1906, (112-132).

Kulczycki, Włodzimierz v. Nusbaum, J.

Le Double. L'évolution des os de la face. Rev. sci., Paris, sér. 5, **5**, 1906, (548-556, 584-590).

Letacq, A. L. Sur les Mammifères, les Oiseaux et les Poissons disparus ou en voie de disparition de la faune de l'Orne. Caen, Bul. soc. linn., ser. 5, **9**, 1906, (52-73).

Lévy, S. Sur les cellules de soutien de la muqueuse olfactive. Paris, C.-R. soc. biol., **61**, 1906, (243-244); Réunion biologique de Nancy, **1906**, (43-44).

Löns, Hermann. Beiträge * zur Landesfauna. [1. Veränderung der Avifauna. 2. Amphibien u. Reptilien. 3. Säugetiere.] Hannover, Jahrb. Prov.-Mus., **1904-1905**, 1905, (24-37); **1905-1906**, 1906, (26-42).

Loisel, Gustave. La fasciculation des spermatozoïdes dans le testicule. C.-R. ass. anat., 7^e session (Genève), **1905**, Nancy, 1906, (137-139, av. fig.).

Lull, Richard S[wann]. Volant adaptation in vertebrates. Amer. Nat., Boston, Mass., **40**, 1906, (537-566).

Maggi, Leopoldo. Intorno ai Pre-frontali degli Ittiopsidi e dei Sauropsidi. Milano, Rend. Ist. lomb., ser. 2, **36**, 1903, (903-918).

Manno, Andrea. 1. Arteriae plantares pedis (in Aves, Reptilia, Amphibia). Archivio ital. Anat. Embriol., Firenze, **5**, 1906, (418-453, 3 tav.).

Manno, A. 2. Arteria peronea communis, arteria peronea profunda, arteria peronea superficialis. Contributo alla morfologia della circolazione arteriosa

nell'arto addominale. Intern. Monatsschr. Anat., Leipzig, **23**, 1906, (272-331, 3 Taf.).

Mendl, Em. Einige Beobachtungen über die koncoronischen Fibrillen der Nervenzellenkerne. Arch. Mikr. Anat., Bonn, **68**, 1906, (527-539, 1 Taf.).

Mercier, L. vide Hertwig, O.

Merriam, C[inton] Hart. Is mutation a factor in the evolution of the higher vertebrates? [Address of the vice-president and chairman of Section F zoology at the New Orleans meeting of the American Association for the Advancement of Science.] Proc. Amer. Ass. Adv. Sci., Washington, D.C., **55**, 1906, (383-408); Science, New York, N.Y., N. Ser., **23**, 1906, (241-257, with text fig.).

Metcalf, Maynard M. *Salpa* and the phylogeny of the eyes of vertebrates. Anat. Anz., Jena, **29**, 1906, (526-528).

Momsen, P. Eigenartige Tierfreundschaft. [Hund u. Ganter.] Zool. Beob., Frankfurt a. M., **47**, 1906, (41-45).

Morgera, Arturo. Sulla struttura intima degli organi annessi al testicolo del Topo e della Cavia. Considerazioni generali sul gruppo degli Amnioti. Napoli, Boll. Soc. Nat., **19**, (1905), 1906, (135-141).

Nègre, L. Morphologie des pigmentophores de la peau des vertébrés et leurs rapports avec les cellules épidermiques. Paris, C.-R. soc. biol., **60**, 1906, (26-28, av. fig.).

Neumayer, Ludwig. Alte und neue Probleme auf dem Gebiete der Entwicklung des Zentralnervensystems. München, SitzBer. Ges. Morph., **19**, (1903), 1904, (1-15).

Nusbaum, Józef und Kulczycki, Włodzimierz. Materialien zur vergleichenden Histologie der Hautdecke der Wirbeltiere. Anat. Anz., Jena, **28**, 1906, (337-354).

Oppel, Albert. Atmungs-Apparat. [Jahresbericht.] Anat. Hefte, Wiesbaden, Abt. 2, **15**, (1905), 1906, (289-331).

Pensa, Antonio. Osservazioni sulla distribuzione dei vasi sanguigni e dei nervi nel pancreas. Intern. Monatsschr. Anat., Leipzig, **22**, 1905, (90-125, 6 [+ 1] Taf.).

Pensa, Antonio. Studio sulla morfologia e sullo sviluppo della Arteria intercostalis suprema e delle A. intercostales. Roma, Ric. Lab. anat. norm., **11**, 1905, (33-142, 3 tav.).

Pérez, Ch. A propos des vertébrés allantoïdiens marins. Revue des idées, Paris, **1**, 1904, (885-888).

Pes, Orlando. Problemi e ricerche sull'istogenesi del nervo ottico. Biologica, Torino, **1**, 1906, (33-56, 1 tav.).

Poso, Ofelia. Contributo allo sviluppo della milza nei Vertebrati. Sunto. Napoli, Rend. Acc. sc., ser. 3, **12**, 1906, (39-40).

Rabaud, Etienne. Etudes anatomiques sur les monstres composés. II: Hétéradelphe bitrachéal. Remarques générales sur l'hétéradelphie. Paris, Bul. soc. philom., sér. 9, **8**, 1906, (210-240, av. fig.).

Renaut, J. Caractères histologiques et évolution des cellules connectives rhagioclines. C.-R. ass. anat., 7^e session, (Genève), **1905**, Nancy, 1906, (179-186, av. fig.).

Retterer, Ed. Du tissu osseux des Mammifères et des Poissons. C.-R. ass. anat. 7^e session, (Genève), **1905**, Nancy, 1906, (120-126).

Ricci, Omero. Contributo allo studio del timo. Riv. ital. sc. nat., Siena, **25**, 1906, (8-11, cont.).

Ruffini, Alfonso. 1. Contributo alla conoscenza della distribuzione ed espansione dei nervi nella milza di alcuni Vertebrati. Intern. Monatschr. Anat., Leipzig, **23**, 1906, (229-238, 2 Taf.).

Ruffini, A. 2. A proposito della "guaina sussidaria" delle fibre nervose di senso. Anat. Anz., Jena, **28**, 1906, (553-556).

Ruthven, A. G. The cold-blooded vertebrates of the Porcupine mountains and Isle Royale, Michigan. Michigan, Rep. Geol. Surv., Lansing, **1905**, 1906, (107-112).

Salmon, J. 1. Considérations sur la morphologie des rudiments squelettiques chez les monstres ectroméliens. Paris, C.-R. soc. biol., **61**, 1906, (489-491).

Salmon, J. 2. Les connexions des rudiments squelettiques chez les Ectroméliens. Paris, C.-R. soc. biol., **61**, 1906, (630-631).

Schnee. Die Vögel und Säugetiere Spitzbergens. Natur u. Kultur, München, **3**, 1903, (609-614).

Spemann, Hans. Ueber embryonale Transplantation. (Vortrag . . .) Natw. Rdsch., Braunschweig, **21**, 1906, (513-516, 557-560).

Spuler, Arnold. Beiträge zur Lehre von der Entstehung der Knochen. Erlangen, SitzBer. physik. Soc., **37** (1905), 1906, (480-483).

Spurrell, George F. The articulation of the vertebrate jaw. London, Proc. Zool. Soc., **1906**, (114-123).

Stöhr, Philipp. Ueber die Natur der Thymus-Elemente. Anat. Hefte, Wiesbaden, Abt. 1, **31**, 1906, (407-457, mit 8/4/ Taf.).

Stromer, E[rnst]. Ueber die Bedeutung der fossilen Wirbeltiere Afrikas für die Tiergeographie. Verh. D. zool. Ges., Leipzig, **16**, 1906, (204-218).

Studnička, F[rantišek] K. Ueber kollagene Bindegewebsfibrillen in der Grundsubstanz des Hyalinknorpels, im Dentin und im Knochengewebe. Anat. Anz., Jena, **29**, 1906, (334-344).

Thyng, F. W. Squamosal bone in tetrapodous vertebrata. [With bibliography.] [Contributions from the Biological laboratories of Tufts College.] No. **44** in Boston, Mass., Proc. Soc. Nat. Hist., **32**, 1906, (387-426 + 2l., with pl., text fig.); Tufts College, Mass., Tufts Coll. Stud., Sci. Ser., **2**, 1906, (35-74 + 2l., with pl., text fig.).

Ussoff, S. A. Vergleichend-embryologische Studien des axialen Skelettes. Entochorda. I. Chordae. Vorl. Mitt. Anat. Anz., Jena, **29**, 1906, (433-452, 501-510, 561-579).

Weigl, Rudolf. O wzajemnem połączeniu komórek nabłonkowych przewodu pokarmowego kręgowców. [Ueber die gegenseitige Verbindung der Epithelzellen im Darne der Wirbeltiere.] Kraków, Bull. Intern. Acad., **1906**, (777-792).

Wiedersheim, Robert. Vergleichende Anatomie der Wirbeltiere. Für Studierende bearb. 6., vielfach umgearb. u. stark verm. Aufl. des „Grundriss der vergl. Anatomie der Wirbeltiere“. Jena (G. Fischer), 1906, xix + 799, mit 1 Taf.). 26 cm.

Wijhe, J[an] W[illem] van. Die Homologisirung des Mundes des Amphioxus und die primitive Leibesgliederung der Wirbeltiere. Petrus Camper, Bijdr. Anat., Haarlem, **4**, 1906, (61-102, 1 Taf.).

Zietzschmann, Otto. Das Sehorgan. [In] Handbuch der vergl. mikr. Anatomie der Haustiere, hrsg. v. W. Ellenberger. Bd 1. Berlin (P. Parey), 1906, (422-565).

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Titles placed in square brackets will be found in antecedent volumes of the Internat. Cat. Sci. Lit.

Abel, O[thénio]. Fossile Flugfische. Wien, Jahrb. Geol. Reichsanst., **56**, 1906, (1-88, mit 3 Taf.).

Adams, L. E. The flight of flying fish. *Zoologist*, London, **10**, 1906, (145-148).

Adorno, M. ride Mercadante, L.

Agar, W. E. 1. The development of the skull and visceral arches in *Lepidosiren* and *Protopterus*. Edinburgh, Trans. R. Soc., **45**, 1906, (49-61, 3 pls.).

Agar, W. E. 2. The spiracular gill cleft in *Lepidosiren* and *Protopterus*. Anat. Anz., Jena, **28**, 1906, (298-304).

Albert, Prince of Monaco. Sur la septième campagne scientifique de la "Princesse Alice": La mer des Sargasses. Paris, C.-R. Acad. sci., **142**, 1906, (621-624).

(**Allen**, William F[rederick]. 1. The blood-vascular system of the Loricati, the mail-cheeked fishes. Washington, D.C., Proc. Acad. Sci., **7**, 1905, (27-157, with pl., text fig.). [5407].)

Allen, W. F. 2. Distribution of the lymphatics in the head, and in the dorsal, pectoral, and ventral fins of *Scorpaenichthys marmoratus*. Washington, D.C., Proc. Acad. Sci., **8**, 1906, (41-90, with pl.).

(**Alluaud**, Ch. Mission scientifique en Afrique orientale (juin 1903-mai 1904). Poissons. I: Hydrographie et procédés

de pêche. Paris, Mém. soc. zool., **17**, (167-174).)

Almera, D. J. Descripción geológica de la comarca titulada "Plana de Vich." [Geological description of the district known as "Plana de Vich."] Madrid, Mem. Soc. esp. Hist. Nat., **3**, 1906, (423-468, with map); Barcelona, Mem. R. Ac. Cs., **5**, 1906, (349-397, with map).

[**Alphéraki**, S.] Алферакки, С. Бѣглыя замѣтки о нѣкоторыхъ рыбахъ Азовскаго моря. [Flüchtige Bemerkungen über einige Fische des Azovschen Meeres]. Psov. i ružeju. ochota, Moskva, **12**, 1906, (164-166, 259-261).

Ameghino, F. Ce que disent les poissons fossiles du Patagonien. In: Les formations sédimentaires du Crétacé supérieur et du tertiaire de Patagonie. An. Mus. Nac., Buenos Aires, **15**, 1906, (1-568).

Andrews, C. W. A descriptive catalogue of the tertiary vertebrata of the Fayûm. Egypt, London, 1906, (xxxviii + 324, plates).

[**Anikin**, V. P.] Аникинъ, В. П. Рыбы *Diptychus* Steind., ихъ систематика и биологическое значеніе. [Die Fische der Gatt. *Diptychus* Steind., ihre Systematik und biologische Bedeutung]. Tomsk, 1906, (84, mit 1 Tab.).

Annandale, N[elson]. Notes on the freshwater fauna of India. No. vii. A new Goby from fresh and brackish water in Lower Bengal. Calcutta, J., As. Soc. Beng., **2**, 1906, (201-202).

Antipa, G. Die Clupeinen des westlichen Teiles des Schwarzen Meeres und der Donaumündungen. Wien, Denkschr. Ak. Wiss., **78**, 1906, (1-57, 3 pls. and 6 text figs.).

Arcangeli, Alceste. Cambiamenti nell'epitelio intestinale del *Box salpa* L. durante l'assorbimento. Archivio

ital. Anat. Embriol., Firenze, **5**, 1906, (150-176, con 4 fig. e 1 tav.).

Arens, C. Observations on the spawning season of the rainbow trout. Dublin, Fish. Ireland Sci. Invest., **1904**, **7**, [1906], (9-13).

[**Arnold, I.**] Арнольдъ, И. Опыты искусственнаго оплодотворения сельди черноспинки. [Versuche der künstlichen Befruchtung von *Clupea kessleri*.] Věst. rybopromysl., St. Peterburg, **21**, 1906, (478-480).

Arnold, Paul. *Polycentropsis abbreviata* Boul. Wochenschr. Aquarienkunde, Braunschweig, **3**, 1906, (451-453).

Askanazy. Weitere Mitteilungen über die Quelle der Infektion mit *Distomum felinum*. Königsberg, Schr. physik. Ges., **46**, 1906, (127-131).

Audigé, J. Sur la structure de la vessie urinaire de *Barbus fluviatilis* Agassiz. C.-R. ass. anat., 6e session (Toulouse), Nancy, 1904, (186-188).

Ayers, Howard. The unity of the Gnathostome type. Amer. Nat., Boston, Mass., **40**, 1906, (75-94).

Bade, E. Die direkte Ueberführung von Stichlingen in Seewasser. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (374).

Baehr, W. B. von. Ueber das von Einer beschriebene Brustbein vom Karpfen (*Cyprinus carpio*). Zool. Jahrb., Jena, Abt. f. Anat., **22**, 1906, (629-636, mit 2 Taf.).

Baglioni, S. Vergleichende chemische Untersuchungen an den Muskeln, den elektrischen Organen und dem Blutserum von *Torpedo ocellata*. Beitr. chem. Physiol., Braunschweig., **8**, 1906, (456-471).

Barbieri, C. 1. Differenziamenti istologici nella regione ottica del cervello di Teleostei ed anfi anuri. Milano, Atti Soc. ital. sc. nat., **44**, 1905, (165-188, text fig. and pl. iii).

Barbieri, C. 2. Sull'origine delle mostruosità embrionali doppie nei Teleostei. Milano, Atti Soc. ital. sc. nat., **45**, 1906, (100-106).

Barbieri, C. 3. Intorno ad una interessante mostruosità embrionale doppia nei Salmonidi. Rivista mensile di Pesca, Milano, **8**, 1906, (89-91).

(x-9720 b)

Barbour, Thomas and Cole, Leon J. Reptilia, Amphibia, and Pisces. Cambridge, Mass., Bull. Mus. Comp. Zool., Harvard Coll., **50**, 1906, (146-159, with pl.).

Barbour, T. vide Townsend, C[harles] H[askins].

[**Baženov, A.**] 1. Баженовъ, А. Осетръ и бѣлуга на средней Волгѣ. [Der Stör und der Hausen in der mittleren Wolga] Věst. rybopromysl., St. Peterburg, **21**, 1906, (1-6, mit 3 Taf.).

[**Baženov, A.**] 2. Баженовъ, А. Сельдь черноспинки (*Cl. kessleri*) выше г. Самары въ 1905 г. [Ueber die Wanderung von *Clupea kessleri* bis oberhalb von Samara im Jahre 1905.] Věst. rybopromysl., St. Peterburg, **21**, 1906, (118-135).

Bean, Tarleton H[offman]. 1. Descriptions of new Bermudan fishes. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (29-33).

Bean, T. H. 2. A catalogue of the fishes of Bermuda, with notes on a collection made in 1905 for the Field Museum. Chicago Ill., Pub. Field Columb. Mus. Zool. Ser., **7**, 1906, (21-89, text figs.).

Bellotti, C. 1. Di una notevole varietà di colorazione della *Tinca* comune. Milano, Atti Soc. ital. sc. nat., **44**, 1905, (218-220, pl. v).

Bellotti, C. 2. Di una notevole varietà di colorazione della *Tinca* comune. Rivista mensile di Pesca, Milano, **8**, 1906, (12-13, con 1 tav.).

Bellotti, C., Ronchetti-Monteviti, G., Mazzarelli, G. Relazione intorno alla colonizzazione del Persico-Sole (*Pomotis auritus*) nei laghi lombardi. Acquicoltura lombarda, Milano, **7**, N. 1-2-3, 1905, (59-62).

Benham, W. B. and Dunbar, W. J. On the skull of a young specimen of the ribbon-fish *Regalecus*. London, Proc. Zool. Soc., **1906**, 2, (544-556, pls. xxxviii, xxxix).

Bentley, I[saac] Madison vide Washburn, Margaret F[loy].

Berg, L. S. 1. Note on *Doliichthys stellatus* Sauvage. Ann. Mag. Nat. Hist., London, **17**, 1906, (393).

Berg, L. S. 2. Description of a new species of *Leucogobio* from Korea. Ann.

Mag. Nat. Hist., London, **18**, 1906, (391-395).

Berg, L. S. 3. Uebersicht der Cataphracti (Fam. *Cottidae*, *Cottocomphoridae* und *Comphoridae*) des Baikalsees. Zool. Anz., Leipzig, **30**, 1906, (906-911).

[**Berg, L.**] 4. Бергъ, Л. Замѣтка о группѣ Rhodeinae (сем. *Cyprinidae*) изъ бассейна Амура. [Notice sur le groupe des Rhodeinae (fam. *Cyprinidae*) du bassin de l'Amour.] St. Petersburg, Ann. Mus. zool. Ac. Sc., **11**, 1905, [1906], (x-xiv).

Berg, L. 5. Uebersicht der Marsipobranchii des russischen Reiches. St. Petersburg, Bull. Ac. Sc., Sér. 5, **24**, 1906, (169-183).

[**Berg, L.**] 6. Бергъ, Л. Къ остеологii байкальскихъ Cataphracti. [Zur Osteologie der Baikalsee-Cataphracti.] St. Petersburg, Trav. soc. nat., **37**, 1, 1906, (30-32); deutsches Rés. (40-41).

Berg, L. S. 7. Ueber *Gyrinocheilus kaznakovi* sp. n. (*Cyprinidae* subfam. *Gyrinocheilini*) aus Siam. (Russ.) St. Petersburg, Trav. Soc. nat. Compt. rendus, **37**, 1906, (305-307); deutsches Rés., (364-366).

Berg, L. 8. Beschreibung einiger kaukasischer Fische. St. Petersburg, Bull. Ac. Sc., Ser. 5, **24**, 1-2, 1906, (35-39).

[**Berg, L. S.**] 9. Бергъ, Л. С. Замѣтка о рыбахъ оз. Косогола. [Notice sur les poissons du lac Kossogol (bassin du Baikal).] Trd. Troick.-Kiacht. Otd. Russ. Geogr. Obsč., Moskva, **8**, 3, 1905, [1906], (64-70).

Berg, L. S. 10. Übersicht der Salmoniden vom Amur-Becken. Zool. Anz., Leipzig, **30**, 1906, (395-398).

[**Berg, L. S.**] 11. Бергъ, Л. С. Рыболовство въ бассейнѣ Волги выне Саратова. Выпускъ 4-ый. [Die Fischerei im Bassin der Wolga oberhalb von Saratow. 4-te Lief.] St. Petersburg [Dep. Landwirthsch.], 1906, (1 + 85). 26 cm. 40 Kop.

[**Berg, L. S.**] 12. Бергъ, Л. С. Замѣтка о рыболовствѣ въ водахъ Семиряченской области. [Notiz über die Fischerei in den Gewässern des Semiretschje-Gebiets.] Russ. sudochod., St. Petersburg, **20**, 1905, 5, (49-56).

[**Berg, L. S.**] 13. Бергъ, Л. С. Очеркъ рыболовства въ бассейнѣ Волги отъ р. Ветлуги до устья Камы. [Uebersicht der Fischerei im Wolga-Bassin vom Flusse Vetluga bis zur Mündung der Kama.] Russ. sudochod., St. Petersburg, **21**, 1906, 6, (84-114), 7, (73-100).

[**Berg, L.**] 14. Бергъ, Л. Рыбы Туркестана. [Die Fische von Turkestan.] St. Petersburg, 1905, (261); Taškent, Izv. Turk. Otd. Russ. Geogr. Obsč., **4**, 1905.

Bernstein, J[ulius] und **Tschermak, A[rmin]**. Untersuchungen zur Thermodynamik der bioelektrischen Ströme. Zweiter Teil. Ueber die Natur der Kette des elektrischen Organs bei *Torpedo*. Arch. ges. Physiol., Bonn, **112**, 1906, (439-521).

Biéfrix, Eugène v. Fabre, Domergue.

Blathwayt, F. L. Fish on the coast of Somerset. Zoologist, London, **10**, 1906, (470).

Boeke, J[an]. Eier und Jugendformen von Fischen der südlichen Nordsee mit besonderer Berücksichtigung des Holländischen Untersuchungsgebiets. Helder, Verb. Onderz. Zee, **1**, 4, 1906, (1-36).

Bogacki, Kamil. Experimentelle Flossenregeneration bei europäischen Süßwasserfischen. Arch. EntwMech., Leipzig, **22**, 1906, (18-20, mit 1 Taf.).

Bolau, Hermann. Die deutschen Versuche mit gezeichneten Schollen. I. Bericht. (Arb. d. D. wiss. Kommission f. d. internat. Meeresforschung. B. 3.) Wiss. Meeresunters., Kiel, N.F., **7**, Abt. Helgoland, 1906, (79-131).

Borcea, J. 1. Quelques considérations sur l'appareil urinaire des Elasmobranches. Paris, Bul. soc. zool., **29**, 1904, (143-148).

Borcea, J. 2. Recherches sur le système urogénital des Elasmobranches. Arch. zool., Paris, sér. 4, **4**, 1906, (199-484, av. pl.); Thèse Fac. sci. Paris. Paris (Schleicher), 1905, (199-484).

(**Borcea, J.** 3. Note complémentaire sur la morphologie du rein des Elasmobranches. Paris, Bul. soc. zool., **29**, 1904, (209-210). [5431 5407].)

(**Borcea, J.** 4. Sur un cas de conformation anormale de l'oviducte droit chez une petite Roussette (*Scyllium canicula*). Paris, Bul. soc. zool., **29**, 1904, (138-148).)

Borchert, Max. Zur Kenntnis des Centralnervensystems von *Torpedo*. (Zweite Mitteilung, 1.) Morph. Jahrb., Leipzig, **36**, 1906, (52-81, mit 3 Taf.).

[**Borodin, N.**] 1. Бородинъ, Н. Новый видъ Каспійской сельди (*Clupea engrauliformis* n. sp.). [Eine neue Art kaspischer Heringe, *Clupea engrauliformis* n. sp.] Věst. rybo-promyšl., St. Peterburg, **21**, 1906, (197-203); deutsches Rés., (204, mit 2 Fig. i. T.).

[**Borodin, N.**] 2. Бородинъ, Н. О зимней спячкѣ Карпа и др. рыбъ. [Ueber den Winterschlaf des Karpfens und anderer Fische.] Věstn. rybo-promyšl., St. Peterburg, **21**, 1906, (214-216).

Boulenger, G. A. 1. On some fishes from the Kwango River (Congo System) in Angola, collected by Dr. W. J. Ansorge. Ann. Mag. Nat. Hist., London, **17**, 1906, (110-112).

Boulenger, G. A. 2. On a collection of fishes from Gallaland. Ann. Mag. Nat. Hist., London, **17**, 1906, (557-567).

Boulenger, G. A. 3. Description of a new fish of the genus *Clarias* from Uganda. Ann. Mag. Nat. Hist., London, **17**, 1906, (569).

Boulenger, G. A. 4. The distribution of African freshwater fishes. London, Rep. Brit. Ass., **1905**, (412-432).

Boulenger, G. A. 5. Descriptions of new fishes discovered by Mr. E. Degen in Lake Victoria. Ann. Mag. Nat. Hist., London, **17**, 1906, (433-452).

Boulenger, G. A. 6. On a second species of the Silurid genus *Mochochus*. Ann. Mag., Nat. Hist., London, **17**, 1906, (147).

Boulenger, G. A. 7. On some West African species of *Barbus*. Ann. Mag. Nat. Hist., London, **18**, 1906, (32-35).

Boulenger, G. A. 8. Description of a new Mormyrid fish from South Cameroon. Ann. Mag. Nat. Hist., London, **18**, 1906, (36-37).

Boulenger, G. A. 9. Description of a new *Barbus* from the Uganda Protectorate. Ann. Mag. Nat. Hist., London, **18**, 1906, (36).

Boulenger, G. A. 10. Description of a new Silurid fish of the genus *Doumea* Sauvage, from Angola. Ann. Mag. Nat. Hist., London, **18**, 1906, (347-348).

Boulenger, G. A. 11. On the presence of two species of *Anabas* in the White Nile and Bahir-el-Gebel. Ann. Mag. Nat. Hist., London, **18**, 1906, (348).

Boulenger, G. A. 12. Fourth contribution to the ichthyology of Lake Tanganyika. Report on the collection of fishes made by Dr. W. A. Cunningham during the third Tanganyika Expedition 1904-1905. London, Trans. Zool. Soc., **17**, 1906, (537-576, pls. xxx-xli).

Bounhiol, J. P. Sur la technique des mesures respiratoires chez les poissons. Paris, C.-R. soc. biol., **60**, 1906, (473-474).

Bouyat, A. vide Gruvel, A.

Branson, E. B. 1. Notes on some Carboniferous Cochliodonts, with descriptions of seven new species. J. Geol., Chicago, Ill., **13**, 1905, (20-34, pls. 1 and 2).

Branson, E. B. 2. Fish remains from the Salem limestone of Indiana. [In: Cumings, E. R. and others. Fauna of the Salem limestone.] Indiana, Rep. Dept. Geol. Nat. Res., Indianapolis, **30**, (1905), 1906, (1276-1394, with pl.).

Brauer, August. Die Tiefsee-Fische. 1. Syst. Tl. (Wissensch. Ergebnisse d. D. Tiefsee-Expedition, Bd 15, Lfg 1.) Jena (G. Fischer), 1906, (432, mit 16 Taf. u. 2 Kart.). 35 cm. 140 M.

Braus, Hermann. 1. Ist die Bildung des Skeletes von den Muskulanlagen abhängig? Eine experimentelle Untersuchung an der Brustflosse von Haiembryonen. Morph. Jahrb., Leipzig, **35**, 1906, (240-321, mit 3 Taf.).

Braus, H. 2. Ueber den embryonalen Kiemenapparat von *Heptanchus*. Anat. Anz., Jena, **29**, 1906, (545-560).

Braus, H. 3. Zur Entwicklungsgeschichte niederer Haie. Notizen über Vorkommen im Mittelmeer, Taxonomie, Eier und Eihüllen dieser Fische. Berlin, SitzBer. Ak. Wiss., **1906**, (907-932).

Breuer, J. Ueber den Galvanotropismus (Galvanotaxis) bei Fischen. Wien, SitzBer. Ak. Wiss., **114**, 1905, (27-56).

(**Briot, A.** Sur l'action soi-disant venimeuse de la rascasse. Paris, C.-R. ass. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (901). [5431].)

Brüning, Chr. Versuche über das Hören der Fische. Natur u. Haus, Dresden, **14**, 1906, (312-313).

Bryan, W. A. and **Herre** in Bryan, W. A. A monograph of Marcus Island. Honolulu, H.I., (Bishop Museum Press) 1903, (140), 8°. Annotated list of Marcus Island fishes, (126-139).

Burckhardt, [Rudolph]. Ueber den Nervus terminalis. Verh. D. zool. Ges., Leipzig, **16**, 1906, (203-204).

Byrne, L. W. A new species of *Pteridium* (Scopoli) from the N.E. Atlantic. Ann. Mag. Nat. Hist., London, **18**, 1906, (448-450).

Calderwood, W. L. Note on the smolt to grilse stage of the salmon, with exhibition of a marked fish recaptured. Edinburgh, Proc. R. Soc., **26**, 1906, (321-324, text-fig.).

Camps, de y **Olzinellas**, C. de. Observaciones ictiológicas. [Ichthyological observations.] Barcelona, Mem. R. Ac. Cs., **5**, 1906, (473-478).

Carlson, A[nton] J[ulius]. The presence of cardio-regulative nerves in the lampreys. Amer. J. Physiol., Boston, Mass., **16**, 1906, (230-232).

Carruccio, Antonio. Sulla *Selache maxima* Günner testè avuta dal Museo zool. della R. Università di Roma. Roma, Bol. Soc. zool. ital., Ser. 2, **6**, 1906, (191-202).

Cépède, Casimir. 1. Sur la prétendue immunité des *Cobitis* à l'égard des infections myxosporidiennes. Paris, C.-R. soc. biol., **60**, 1906, (15-16).

Cépède, C. 2. *Myxidium giardi* Cépède et la prétendue immunité des anguilles à l'égard des infections myxosporidiennes. Paris, C.-R. soc. biol., **60**, 1906, (170-173, av. fig.).

Cépède. 3. Le blageon et la sniffe (*Squalius agassizii*) dans les lacs et les torrents. Paris, Bul. ass. franç. avanc., **1904**, (260).

[**Chaine**, J. Sur le "ligament mandibulo-operculaire" des Téléostéens. Bordeaux, Proc.-verb. soc. sci. phys. nat., **1904**, (29-30)].

Chaine, J. vide Künstler, J.

Chapman, F. New or little known Victorian fossils in the National Museum, Melbourne. VII. A new Cephalaspid, from the Silurian of Wombat Creek. Melbourne, Proc. R. Soc. Vict., **18**, 1906, (93-100, pls. vii, viii).

Chiappi, T. Le specie italiane di *Leuciscus* comprese nel sottogenere *Leucos* Bp. Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (21-47, con. 1 tav.).

Chiarugi, Giulio. Della regione parasitaria del telencefalo e di alcuni ispessimenti del corrispondente ectoderma tegumentario in embrioni di *Torpedo ocellata*. Archivio ital. Anat. Embriol., Firenze, **5**, 1906, (359-375, con 3 tav.).

Chudeau, R. Les conditions de la pêche en Algérie. Paris, C.-R. cong. soc. sav., (Alger), 1905, (105-113).

Ciaccio, Carmelo. Sur l'existence du tissu myéloïde dans le rein des Plagiostomes. Paris, C.-R. soc. biol., **60**, 1906, (77).

Clark, G. A. vide Jordan and Clark.

Clark, H. Walton v. Evermann, B. W.

Cligny, A. *Aphyia minuta* Risso, espèce nouvelle pour le Pas-de-Calais. Paris, C.-R. ass. franç. avanc. sci., **34**, (Cherbourg, 1905, 2^e Partie), 1906, (585-586).

Cohn, Ludwig. Die Seitenlinie von *Ieosteus enigmaticus*. Zool. Anz., Leipzig, **30**, 1906, (178-183).

Cole, F. J. A monograph on the general morphology of the Myxinoid fishes based on a study of *Myxine*. Pt. I. The anatomy of the skeleton. Edinburgh, Trans. R. Soc., **41**, 1906, (749-788, 3 pls.).

Cole, F. J. und **Dakin**, W. J. Further observations on the cranial nerves of *Chimaera*. Anat. Anz., Jena, **28**, 1906, **28**, (595-599).

Cole, Leon J. vide Barbour, T.

[**Collett**, R. 1. Meddelelser om Norges Fiske i Aarene 1884-1901. [Notes on Norwegian fish during the years 1884-1901.] III. Kristiania, Forh. Vid. selsk., **1905**, No. 7, 1906, (173)].

[**Collett**, R. 2. Diagnoses of four hitherto undescribed fishes from the depths south of the Faroe islands. Kristiania, Forh. Vid. selsk., **1904**, No. 9, 1905, (7).]

Comes, S. Sulla zona plasmatica perinucleare nell'oocite di alcuni Teleostei. Catania, Boll. Acc. Gioenia, N. Ser., fasc. **86**, 1905, (22-26).

Corbin, G. B. Large chub (*Leuciscus cephalus*) in the Hampshire Avon. Zoologist, London, **10**, 1906, (435-436).

Cornet. Sur la faune du terrain houiller de Bandour. Paris, C.-R. Acad. sci., **142**, 1906, (734-736).

Coutière, H. Les poissons nuisibles. Caus. sci., Paris, **1900-1906**, (25-37).

Crettiez, Jean. 1. Sur la culture de l'ombre-chevalier du Léman à l'établissement de pisciculture de Thonon. Métis et hybrides de ce Salmonide. Paris, C.-R. ass. franç. avanc. sci., **35**, (Lyon, 1906, 1^{re} Partie), 1906, 1, (119).

Crettiez, J. 2. Sur la reproduction artificielle des Corégones. Paris, C.-R. ass. franç. avanc. sci., **35**, (Lyon, 1906, 1^{re} Partie), 1906, (118-119).

Cuénot, L. Sur une sole à deux faces colorées. Arcachon, Trav. soc. sci. station biol., **8**, 1905, [1906], (82-89, av. fig.).

Dahl, Knut. Nyere Oplysninger om Unglaks og dens Opholdssteder. [Neuere Beobachtungen über den jungen Lachs und seine Wanderung.] Bergen, Norsk Fisket., **25**, 1906, (522-529).

Dahlgren, Ulric. A new type of electric organ in an American teleost fish *Astroscopus*. Science, New York, N.Y., N. Ser., **23**, 1906, (469-470).

Dahlgren, U. and **Silvester, C. F.** The electric organ of the stargazer, *Astroscopus* (Brevoort). (A new form of the electric apparatus in an American Teleost.) [Prelim. paper.] Anat. Anz., Jena, **29**, 1906, (387-403).

Dakin, W. J. *vide* Cole, F. J.

Dal, Knut og **Dannevig, G. M.** Undersøgelser over nytten af torskeudklækning i Ostlandets fjorde. [Investigations upon the utility of hatching cod-fish in the eastern fjords (Norway).] Aarsb. Norges Fiskerier, Bergen, **1906**, (121 + 115).

Dannevig, G. M. *vide* Dal, Knut.

Dantan, L. Observations sur les organes de la ligne latérale chez les larves des Téléostéens. Paris, C.-R. ass. franç. avanc. sci., **34**, (Cherbourg, 1905, 2^e Partie), 1906, (582-583).

Darton, N[elson] H[oratio]. Fish remains in Ordovician rocks in Bighorn mountains, Wyoming, with a résumé of Ordovician geology of the Northwest. Rochester, N.Y., Bull. Geol. Soc. Amer., **17**, 1906, (541-566, with text fig., map, pl.).

(Dawson, Jean. 1. The breathing and feeding mechanism of the lampreys. [Contributions from the Zoological Laboratory of the University of Michigan, No. 92]. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **9**, 1905, (1-21). [5407].)

(Dawson, J. 2. The breathing and feeding mechanism of the lampreys, 2. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **9**, 1905, (91-111). [5407].)

Dean, Bashford. 1. Notes on the living specimens of the Australian lung-fish *Ceratodus forsteri*, in the Zoological Society's Collection. London, Proc. Zool. Soc., **1906**, 1, (168-178, with pl. ix).

Dean, B. 2. Chimaeroid fishes and their development. Washington, D.C., Carnegie Inst. Publication No. 32, 1906, (194, pl. xi).

Depéret, C. *vide* Vidal, L. M.

Derjugin, K. M. Murmansche Biologische Station 1899-1905. St. Petersburg, Trav. Soc. nat., **37**, 1906, (1-179).

Diamare, Vincenzo. Studi comparativi sulle isole di Langerhans del pancreas. Memoria 2^a. Intern. Monatsschr. Anat., Leipzig, **22**, 1905, (129-187, mit 2 Taf.).

Dodero *vide* Léger.

Doflein, F. 1. Ostasienfahrt: Erlebnisse und Beobachtungen eines Naturforschers in China, Japan und Ceylon. Leipzig, 1906, (xiii + 511). [Review by L. A. B. Nature, London, **74**, 1906, (510).]

Doflein, F. 2. Fauna und Ozeanographie der japanischen Küste. Leipzig, Verh. D. Zool. Ges., **1906**, (62-72).

Dollo, L. 1. *Bathhydraco scotiae*, poisson abyssal nouveau recueilli par l'expédition Antarctique nationale écossaise. Edinburgh, Proc. R. Soc., **26**, 1906, (65-75).

Dollo, L. 2. *Neobythites brucei*, poisson abyssal nouveau recueilli par l'expédition Antarctique nationale écossaise. Edinburgh, Proc. R. Soc., **26**, 1906, (172-182).

[Doppelmair, G. G.] Дониельмайръ, Г. Г. О биологической станции Никольскаго Рыбоводнаго завода. [Ueber die biologische Station der Fischzuchtanstalt Nikolisk.] St. Petersburg, Trav. Soc. nat., **37**, 1, 1906, (226-230).

Drzewina, Anna. Modifications des leucocytes acidophiles chez certains Téléostéens marins soumis à des variations de salure. Paris, C.-R. Soc. biol., **60**, 1906, (167-168).

Dugès, A. 1. Rôle des nageoires chez les poissons. Mexico, Mem. Soc. Ant. Alzate, **22**, 1905, (217-220).

(**Dugès, A. 2.** Rôle des nageoires chez les poissons. Paris, Bul. soc. zool., **30**, 1905, (107-110). [5407 5411].)

Durnford, C. D. 1. Flying-fish flight, and an unfixed law of nature. Amer. Nat., Boston, Mass., **40**, 1906, (1-11).

Durnford, C. D. 2. Flying-fish flight, and an unfixed law of nature. Ann. Mag. Nat. Hist., London, **17**, 1906, (158-167).

Durnford, C. D. 3. The flying-fish problem. Ann. Mag. Nat. Hist., London, **18**, 1906, (327-338).

Eastman, C[harles] R[ochester]. 1. Dipnoan affinities of arthrodires. Amer. J. Sci., New Haven, Conn., Ser. 4, **21**, 1906, (131-143).

Eastman, C. R. 2. Structure and relations of *Mylostoma*. Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **50**, 1906, (1 l + 1-30 + 4 l., with 5 pls.).

Eastman, C. R. 3. Skarks' teeth and cetacean bones. In: Reports on the Scientific Results of the Expedition to the Eastern Tropical Pacific, in charge of Alexander Agassiz. Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **50**, 1906, (73-98, with 4 pls.).

Edinger, L[udwig]. Ueber das Gehirn von *Myxine glutinosa*. Berlin, Abh. Ak. Wiss., **1906**, Anhang, (1-36, mit 3 Taf.).

Eigenmann, Carl H. The fresh-water fishes of South and middle America. Pop. Sci. Mon., New York, N.Y., **68**, 1906, (515-530).

[**Emeljanenko, P. E.**] Емельяненко, П. Е. Дисковидный (пластинчатый) окунь (*Mesogonistius chaetodon*). [Der scheibenförmige Barsch (*Mesogonistius chaetodon*).] Naturfreund, St. Peterburg, **1**, 1906, (35-38).

Etheridge, R. The cranial buckler of a Dipnoan fish probably *Ganorhynchus* from the Devonian beds of the Murrumbidgee river, New South Wales. Sydney,

N.S.W., Rec. Austr. Mus., **6**, 1906, (129-132, pl. xxviii).

Evermann, Barton Warren. 1. The golden trout of the southern High Sierras. Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (1905). 1906, (1 l. x 1 51, with pl.).

Evermann, B. W. and Clark, H. Walton. New fishes from Santo Domingo. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, 1906, (851-855).

Evermann, B. W. and Goldsborough, E. L. Description of a new rock-fish of the genus *Sebastodes* from California. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **31**, 1906, (651-652).

Evermann, B. W. and Kendall, William Converse. Notes on a collection of fishes from Argentina, South America, with descriptions of three new species. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **31**, 1906, (67-108).

Evermann, B. W. and Seale, Alvin. Fishes collected in the Philippine islands by Maj. Edgar A. Mearns, surgeon, U. S. army. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **31**, 1906, (505-512).

Exner, S. und Januschke, H. Das Verhalten des Guaninapetums von *Abramis brama* gegen Licht und Dunkelheit. Wien, Sitzber. Ak. Wiss., **114**, 1905, (693-712, 1 Taf.).

Eycleshymer, Albert C[hauuncy] and Wilson, James Meredith. The gastrulation and embryo formation in *Amia calva*. Amer. J. Anat., Baltimore, Md., **5**, 1906, (133-162, 4 pls.).

Fabre-Domergue et Biéatrix, Eugène. Développement de la sole (*Solea vulgaris*). Introduction à l'étude de la pisciculture marine. Paris (Vuibert et Nony), 1905, (247, av. pl.). 28 cm.

Favaro, Giuseppe. 1. Ricerche intorno alla morfologia ed allo sviluppo dei vasi, seni e cuori caudali nei Ciclostomi e nei Pesci. Venezia, Atti Ist. ven., **65**, Ser. 8, **8**, Appendice, 1905-1906, (1-279, con 158 fig.).

Favaro, G. 2. Ueber die Arbeit von S. M. Jossifov (Charkow): "Sur les voies principales et les organes de propulsion de la lymphe chez certains poissons." (Arch. Anat. microsc., Paris, **8**, 1906, (398-423, pl. xii).) Anat. Anz., Jena, **28**, 1906, (628).

Felix. Entwicklung der Geschlechtsorgane der Myxinoiden, Teleostier, Selachier, Petromyzonten, Dipnoer. In: Hertwig: Handbuch der Entwicklungslehre der Wirbeltiere. Lief 29, 30, (639-690, text figg.), (742-750), (815-821).

Ferrer, Jaime. Nota acerca del "*Serranus papilionaceus*" Cuv. et Val. "Serrá mascle." [Note on the "*Serranus papilionaceus*" Cuv. et Val. "Serrá mascle."] Madrid, Bol. Soc. esp. hist. nat., **6**, 1906, (460-462).

Fletcher, J. On the Tay sprat fishery. Glasgow, Rep. Fish. Board, **24**, 1906, (159-168).

Forrest, H. E. Records of fishes observed. Shrewsbury, Rec. Canadoc. F. Cl., **16**, 1906, (29).

Fowler, Henry W. 1. New, rare or little known scombroids, No. 3. Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, 1906, (114-122, with text fig.).

Fowler, H. W. 2. Some unusual New Jersey fishes. Science, New York, N.Y., (N. Ser.), **24**, 1906, (596-597).

Fowler, H. W. 3. Descriptions of two new species of *Centropomus*. Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, 1906, (422-428, with text fig.).

Fowler, H. W. 4. Some new and little known percoid fishes. Philadelphia, Pa., Proc. Ac. Nat. Sci., **58**, 1906, (530-528, text figg.).

Fowler, H. W. 5. Some cold-blooded vertebrates of the Florida Keys. Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, 1906, (77-113, with text fig.).

Fowler, H. W. 6. Further knowledge of some heterognathus fishes. Philadelphia, Pa., Proc. Ac. Nat. Sci., **58**, 1906, (293-351, 431-483).

Fowler, H. W. 7. *Pimephalus notatus* in the lower Susquehanna. Amer. Nat., Boston, Mass., **40**, 1906, (473).

Fowler, W. H. 8. Notes on Pennsylvania fishes. Amer. Nat., Boston, Mass., **40**, 1906, (595).

François - Franck, A. 1. Analyse graphique des mouvements respiratoires des poissons Téléostéens. Paris, C.-R. soc. biol., **60**, 1906, (799-801).

François-Franck, A. 2. Fonctionnement de la membrane limitante operculaire; son rôle dans la respiration régulière et dans les mouvements respiratoires redoublés chez les poissons téléos-

téens. Paris, C.-R. soc. biol., **60**, 1906, (801-802).

François-Franck, A. 3. Note complémentaire sur les mouvements actifs de la membrane limitante operculaire des poissons téléostéens. Paris, C.-R. soc. biol., **60**, 1906, (838-839).

François - Franck. 4. Mécanique respiratoire des poissons téléostéens: I. Technique des explorations graphiques. Paris, C.-R. soc. biol., **60**, 1906, (962-967, text figg.).

Franz, V. Beobachtungen am lebenden Selachierange. Jenaische Zs. Natw., **41**, 1906, (429-471).

Fritsch, K. v. Beitrag zur Kenntnis der Tierwelt der deutschen Trias. Halle, Abh. natf. Ges., **24**, (1901-1906), (217-285, mit 9 Taf.).

Fuhrmann, O. Soins paternels chez les poissons. Arch. Sci. Phys., Genève, **21**, 1906, (219).

Fujita, Masakatsu. Kwanden-Denki no Gyorui ni oyobosu Hanwō Jikken. [Experiments on the reaction of fishes both living and dead, towards induction currents of electricity.] Dobuts. Z., Tokyo, **18**, 1906, (153-155).

Fulton, T. W. 1. Trawling investigations. Glasgow, Rep. Fish. Board, **24**, 1906, (17-48).

Fulton, T. W. 2. Report on the operations at the marine fish hatchery, Bay of Nigg, Aberdeen, in 1905. Glasgow, Rep. Fish. Board, **24**, 1906, (108-115, pls. vi, vii).

Fulton, T. W. 3. On the spawning of the lump-sucker (*Cyclopterus lumpus*) and the paternal guardianship of the egg. Glasgow, Rep. Fish. Board, **24**, 1906, (169-178, pl. xi).

Fulton, T. W. 4. On the rate of growth of fishes. Glasgow, Rep. Fish. Board, **24**, 1906, (179-271, pls. xii, xiii).

Fulton, T. W. 5. On the spawning and fecundity of the plaice (*Pleuronectes platessa*). Glasgow, Rep. Fish. Board, **24**, 1906, (281-289).

Fulton, T. W. 6. On the growth and age of the herring (*Clupea harengus*). Glasgow, Rep. Fish. Board, **24**, 1906, (293-338 pls. xvii, xix).

Fusari, Romeo. 1. Contributo allo studio dei nervi cutanei e delle terminazioni nervose nella cute e nella mucosa

orale dell'*Ammocoetes branchialis*. Archivio sc. med., Torino, **30**, 1906, (600-610, con 1 tav.).

Fuarri, R. 2. Contributo allo studio delle terminazioni nervose nei muscoli striati di *Ammocoetes branchialis*. Archivio sc. med., Torino, **29**, 1905, (413-427, con 1 tav.).

G.—, J. W. Some results of the "Belgica" expedition. Nature, London, **74**, 1906, (298-299).

(Galbert, de. Repeuplement des cours d'eau. Protection des poissons et Crustacés. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (755-760). [5403].)

Garman, Samuel. 1. New Plagiostomia. Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**, 1906, (201-208).

Garman, S. 2. Pisces. (Vertebrata from the Savanna of Panama.) [Papers from the John E. Thayer Expedition of 1904, No. 3]. Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**, 1906, (229-230).

(Garman, S. 3. Genera and families of the Chimaeroids. Cambridge, Mass., Proc. New Engl. Zool. Cl., **2**, 1901, (75-77). [5431].)

(Garrey, Walter E[ugene]. A sight reflex shown by sticklebacks. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **8**, 1905, 79-84, with text fig.) [5411].)

Gemelli, Fr. A. Sur la structure de la région infundibulaire des poissons. J. anat. physiol., Paris, **42**, 1906, (77-86).

Gemmill, J. F. 1. Cyclopia in osseous fishes. London, Proc. Zool. Soc., **1906**, 1, (143-149, pl. xxxi).

Gemmill, J. F. 2. Notes on supernumerary eyes and local deficiency and reduplication of the notochord in trout embryos. London, Proc. Zool. Soc., **1906**, 1, (149-152, pl. xxxiii).

Gentès. Signification choroïdienne du sac vasculaire. Paris, C.-R. soc. biol., **60**, 1906, (101-103); Réun. biol., Bordeaux, **1906**, (5-7).

Giacobini, Enrico. La pesca in Italia. Provvedimenti governativi negli anni 1904 e 1905. Rivista mensile di Pesca, Milano, **8**, 1906, (228-213).

Giacomini, Ercole. Sulle capsule surrenali e sul simpatico dei Dipnoi. Ricerche in *Protopterus annectens*. Nota prelim. Roma, Rend. Acc. Lincei, Ser. 5, **15**, 1^o Sem., 1906, (394-398).

Gilbert, Charles H[enry]. Certain scopelids in the collection of the Museum of comparative zoology. Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**, 1906, (253-263, with 3 pls.).

Gilchrist, J. D. F. 1. Cases of extensive mortality among marine animals on the South African Coast, with suggestions as to their cause or causes. London, Rep. Brit. Ass., **1905**, (431-435).

Gilchrist, J. D. F. 2. Recent discoveries in the South African deep sea. London, Rep. Brit. Ass., **1905**, (435).

Gill, Theodore. 1. The remarkable story of a Greek fish, the glanis. Washington, D.C., George Washington Univ. Bull., **5**, 1906, (5-13).

Gill, T. 2. Parental care among fresh-water fishes. Washington, D.C., Smithsonian Inst., Rep., **1905**, 1906, (403-531, with pl.).

Gill, T. N. 3. The fish genus *Alabes* or *Cheilobranchius*. Science, New York, N.Y., N. Ser., **23**, 1906, (584-585).

Gill, T. N. 4. Le Fondule (*Fundula cyprinodonta*) of Carbonnier an *Umbra*. Science, New York, N.Y., N. Ser., **24**, 1906, (818-819).

Glaize, C. T. vide Pellegrin, J.

Godon, J. Contributions à la faune du Nord (Amphibiens et Poissons). Feuille jeunes natural., Paris, sér. 4, **36**, 1906, (47).

Goebel, H. Stor siilen, *Ammodytes lanceolatus*, ved Murmankysten. [*Ammodytes lanceolatus* on the Murman-coast.] Bergen, Norsk Fisket., **25**, 1906, (172).

Goldsmith, M^{lle}. Recherches sur la psychologie de quelques poissons littoraux. Bul. Inst. psych. internat., Paris, **5**, 1905, (51-68). [Discussion: observations de MM. Giard, Delage, Yourievitch.]

Gorka, Sandór. A halak hallásáról. [Über das Gehör der Fische.] Termt. Közl., Budapest, **38**, 1906, (579-581).

[Gratzianoff, V[alerian].] 1. Граждановъ, В. Замѣтка о *Asperina improvisa* Ostroum. [Note sur l'*Asterina improvisa* Ostroum.] St. Peterburg, Bull. Ac. Sc., Ser. 5, **23**, 1^o 2, 1905, [1906], (35-39).

Gratzianow, V. 2. Über eine besondere Gruppe der Rochen. Zool. Anz., Leipzig, **30**, 1906, (399-406).

Greil, [Alfred]. Ueber die Entstehung der Kiemendarmderivate von *Ceratodus* F. Anat. Anz., Jena, ErgII., 1906, (115-131).

[**Grimm**, E.]. Гриммъ, Е. Рыбы прѣсныхъ водъ Европейской Россіи. Ихъ признаки, размноженіе, распространеніе и экономическое значеніе. Составлено по книгѣ Г. Нитче (Die Süßwasserfische Deutschlands). [Die Süßwasserfische des Europäischen Russlands. Ihre Merkmale, Vermehrung, Verbreitung und ökonomische Bedeutung. (Nach H. Nitsche. Die Süßwasserfische Deutschlands).] St. Petersburg (K. Russ. Ges. f. Fischzucht u. Fischerei), 1906, (65). 28 cm. (50 Kop.).

[**Gr[imm]**, [Oskar.]] 1. Гр[иммъ]. Осетръ съ 3-мя ястыками. [Ein Stör mit drei Rogensäcken.] Věst. rybopromysl., St. Petersburg, 21, 1906, (287).

[**Grimm**, O.] 2. Гриммъ, О. Озеро Гокча и его рыбы. [Der Goktscha-See und seine Fische.] Věst. rybopromysl., St. Petersburg, 21, 1906, (513-520).

Grosser, Otto und **Przibram**, Hans. Einige Missbildungen beim Dornhai (*Acanthias vulgaris* Risso). Arch. EntwMech., Leipzig, 22, 1906, (21-37, mit 1 Taf.).

[**Grünberg**, V.] Грюнбергъ, В. За-мѣтки о жизни аральскаго ниппа въ рѣкѣ Сыръ-Дарья. [Notizen über das Leben des Aral-Störs im Syr-Darja.] Russ. sudochod., St. Petersburg, 20, 1905, 7, (86-91).

Gruvel, A. Mission des pêcheries de la côte occidentale d'Afrique dirigée par Gruvel. Avant-propos. Bordeaux, Actes soc. limn., sér. 6, 10, 60, 1905, (5-6).

Gruvel, A. et **Bouyat**, A. Les pêcheries de la côte occidentale d'Afrique. Paris (Challamel), 1906, (280). 25 cm.

Guccini, Luigi. Sul contenuto gastroenterico dei pesci del Ticino. Milano, Rend. Ist. lomb., Ser. 2, 37, 1904, (194-201).

Guitel, F[rédéric]. 1. Recherches sur l'anatomie des reins de quelques Gobiésocidés. Arch. zool., Paris, sér. 4, 5, 1906, (505-698).

Guitel, F. 2. Sur les reins du *Caularchus macandrieus*, Gobiésocidé de la côte américaine du Pacifique. Paris, C.-R. ass. franç. avanc. sci., 34,

(Cherbourg, 1905, 2^e Partie), 1906, (597-601).

Guitel, F. 3. Sur les reins du *Caularchus macandrieus* Girard, Gobiésocidé de la côte américaine du Pacifique. Arch. zool., Paris, sér. 4, 4, 1905, (Notes et Rev., i-vi).

(**Guitel**, F. 4. Diagnoses des *Lepadogaster bimaculatus* Pennant et *microcephalus* Brook. Paris, C.-R. ass. franç. avanc. sci., 33, (Grenoble, 1904, 2^e Partie), 1905, (774-779); Bull. ass. franç. avanc. sci., 1904, (260).)

Guthke, E[rnst]. 1. - Embryologische Studien über die Ganglien und Nerven des Kopfes von *Torpedo ocellata*. Jenaische Zs. Natw., 42, 1906, (1-160, pls. i-iii).

Guthke, E. 2. Embryologische Studien über die Ganglien und Nerven des Kopfes von *Torpedo ocellata*. Diss. Jena (G. Fischer), 1906, (61). 22 cm.

Halkett, E. vide Prince, E. E.

Hankinson, T. L. Notes on the fish of Hillsdale county, Michigan. Lansing, Rep. Mich. Acad. Sci., 8, 1906, (175-178).

Hawkes, O. A. M. The cranial and spinal nerves of *Chlamydoselachus anguineus* Gar. London, Proc. Zool. Soc., 1906, 2, (959-990, pls. lxviii, lxix).

Hein, W. Zur Biologie der Forellenbrut. Allg. Fischereiztg., München, 31, 1906, (217-224, 239-243).

Heincke, Friedrich]. Die Arbeiten der kgl. Biologischen Anstalt auf Helgoland im Interesse der internationalen Meeresforschung in der Zeit vom 1. IV. 1904 bis 31. III. 1905. [In] Die Beteiligung Deutschlands an der internationalen Meeresforschung, Jahresber. 3. Berlin (O. Salle), 1906, (51-93, mit Taf.). 29 cm.

Henking, [Hermann]. Die Tätigkeit des Deutschen Seefischerei-Vereins auf statistischem Gebiete bis zum Schluss des Etatsjahres 1904 . . . In: Die Beteiligung Deutschlands an der internationalen Meeresforschung, Jahresber. 3. Berlin (O. Salle), 1906, (95-191, mit Taf.). 29 cm.

Henshall, James A. A list of the fishes of Montana, with notes on the game fishes. Missoula, Bull. Univ. Mont., No. 34. (Biol. Ser. 11), 1906, (1-12, with pl.).

Herdman, W. A. Sea-fish hatching at Port Erin in 1905. Liverpool, Proc. Trans. Biol. Soc., **20**, 1906, (347-352).

Herre, Albert Christian *vide* Jordan, D. S.

Herrick, C[harles] Judson. On the centers for taste and touch in the medulla oblongata of fishes. J. Comp. Neur. Psych., Granville, Ohio, **16**, 1906, (403-439).

Hillas, A. B. E. Record of salmon marking experiments in Ireland 1902-1905. Dublin, Fish. Ireland Sci. Invest., 1904, vii, [1906], (14-52).

Hinkelmann, A. Ueber die im Jahre 1905 ausgeführte Versuchsfischerei auf dem Kaiser Wilhelm-Kanal. Berlin, Mitt. D. Seefischereiver., **22**, 1906, (14-18).

Hjort, Johan og Petersen, C. G. Joh. Kort oversigt over de internationale fiskeriundersøgelers resultater. [Short review of the results of the international fishery-investigations.] Norges Fiskerier udgivne af selsk. for de norske Fiskeriers fremme, I. Norsk Havfiske ved J. Hjort. Bergen, 1905, (117-170, fig., pls.).

Holt, E. W. L. Report on the artificial propagation of *Salmonidae* during the season of 1904-1905. Dublin, Fish. Ireland Sci. Invest., **1904**, VII, [1906], (1-8).

Holt, E. W. L. and Byrne, L. W. First report on the fishes of the Irish Atlantic Slope. Dublin, Fish. Ireland Sci. Invest., **1905**, II, [1906], (1-28, pt. i).

Huet, P. Les époques de ponte des poissons en rivière et en eau dormante. Rev. gén. sci., Paris, **17**, 1906, (817-820); Nature, Paris, **1906**, (1^{er} sem.), (119).

Huitfeldt-Kaas, Hartvig. Forsøg med Indforelse af Gjors [*Lucioperca sandra*] i norske Vande. [Versuche mit Aussetzung von Zander in norwegische Seen.] Bergen, Norsk Fisket., **25**, 1906, (187-192).

Hussakof, Louis. Studies on the Arthrodira. New York, N.Y., Mem. Amer. Mus. Nat. Hist., **9**, 1906, (103-154, with pl.).

Jaeger, Alfred. Zur Physiologie der Schwimmblase der Fische. Entgegnung

auf den von Frau Reis und Herrn Nusbaum (Lemberg) in Bd 27 dieser Zeitschrift veröffentlichten Aufsatz: „Zur Histologie der Gasdrüse in der Schwimmblase der Knochenfische“. Anat. Anz., Jena, **29**, 1906, (683-685).

Jaekel, O[tto]. 1. Über die Mundbildung der Wirbeltiere. Berlin, SitzBer. Ges. nat. Freunde, **1906**, (7-32, mit Textfig.); Eingehende Schilderung. von L. MEHELY. (Ungarisch) Allatt Közlem., Budapest, **5**, 1906, (8-94).

Jaekel, O. 2. Neue Wirbeltierfunde aus dem Devon von Wildungen. Berlin, SitzBer. Ges. natf. Freunde, **1906**, (73-85).

Jaekel, O. 3. Neue Rekonstruktionen von *Pleuracanthus sessilis* und von *Polyaerodus (Hybodus) hauffmanni*. Berlin, SitzBer. Ges. natf. Freunde, **1906**, (155-159, mit Textfig.).

Jannaci, F. *vide* Mercadante, L.

Jaquet, M. Anomalie de la nageoire anale chez des *Sebastes daetyloptera*. Bull. Mus., Monaco, No. **79**, 1906, (6, 1 pl.).

Jenkins, O[liver] P[eebles]. Temperature conditions in the Kern river region. [*In*: Evermann, B. W. The golden trout of the southern High Sierras.] Washington, D.C., Dépt. Comm. Lab., Bull. Bur. Fish., **25**, (1905), 1906, (39-43).

Johansen, A. C. Ueber die Schollenfischerei im Kattegat und die Mittel sie zu heben. Kjöbenhavn, conseil permanent international pour l'exploration de la mer. (Ser. A, Rapports et procès-verbaux), **5**, 1906, (45-136, with 1 map).

Johnston, I. B. The cranial nerve components of *Petromyzon*. Morph. Jahrb., Leipzig, **34**, 1905, (149-203, mit 1 Taf.).

Johnstone, J. 1. Ichthyological notes. Liverpool, Proc. Trans. Biol. Soc., **20**, 1906, (330-335).

Johnstone, J. 2. Report on experiments with marked fish during the year 1904. Liverpool, Proc. Trans. Biol. Soc., **20**, 1906, (252-294, xiv, xv).

Johnstone, J. 3. Some results of the international fishery investigations. Plymouth, J. Mar. Biol. Ass., **7**, 1906, (437-486).

Johnstone, J. 4. Trawling observations. Liverpool, Proc. Trans. Biol. Soc., **20**, 1906, (232-251).

Joleaud, Léonce. 1. Description des terrains néogènes de la plaine du Comtat et de ses abords. Avignon, Mém. Acad., 1^{re} partie, [Stratigraphie], **5**, 1905, (29-82, 197-246); 2^e partie [Paléontologie], **6**, 1906, (103-163).

Joleaud, L. 2. Description des terrains néogènes de la plaine du Comtat et de ses abords et Téléostéens (*suite*). Poissons Élasmodontes. Avignon, Mém. Acad., **6**, 1906, (329-355).

Jordan, David Starr. 1. A review of the sand lances or *Ammodontidae* of the waters of Japan. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, 1906, (715-719).

Jordan, D. S. 2. The yellow-fin albacore (*Germo macropterus* Schlegel) in California. Pop. Sci. Mon., New York, N.Y., **68**, 1906, (376).

Jordan, D. S. and Clark, G. A. The Bogoslofs. Pop. Sci. Mon., New York, N.Y., **69**, (481-489).

Jordan, D. S. and Herre, Albert Christian. A review of the herring-like fishes of Japan. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **31**, 1906, (613-645).

Jordan, D. S. and McGregor, Richard Crittenden. Description of a new species of threadfin (family *Polynemidae*) from Japan. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, 1906, (813-815).

Jordan, D. S. and Seale, Alvin. 1. The fishes of Samoa. Description of the species found in the archipelago, with a provisional check-list of the fishes of Oceania. Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (1905), 1906, (173-455, with pl.).

Jordan, D. S. and Seale, A. 2. Descriptions of six new species of fishes from Japan. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, 1906, (143-148).

Jordan, D. S. and Snyder, John Otterbein. 1. A review of the *Poeciliidae* or killifishes of Japan. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **31**, 1906, (287-290).

Jordan, D. S. and Snyder, J. O. 2. The giant bass of Japan. [*Stereolepis ischinagi* and *Erilepis zonifer*]. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, 1906, (841-845).

Jordan, D. S. and Snyder, J. O. 3. On a species of loach; *Misgurnus decemcirrosus* (Basilevsky) from northern China. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, 1906, (833-834).

Jordan, D. S. and Snyder, J. O. 4. A synopsis of the sturgeons (*Acipenseridae*) of Japan. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, 1906, (397-398).

Jordan, D. S. and Starks, Edwin Chapin. 1. A review of the flounders and soles of Japan. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **31**, 1906, (161-246).

Jordan, D. S. and Starks, E. C. 2. Notes on a collection of fishes from Port Arthur, Manchuria, obtained by James Francis Abbott. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **31**, 1906, (515-516).

Jordan, D. S. and Starks, E. C. 3. List of fishes collected on Tanega and Yaku, offshore islands of southern Japan, by Robert Van Vleck Anderson, with descriptions of seven new species. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, 1906, (695-706).

Joseph, H. Ein Doppelei von *Scyllium*. (Nebst Bemerkungen über die Eientwicklung.) Anat. Anz., Jena, **29**, 1906, (367-372).

Jossifov, S. M. Sur les voies principales et les organes de propulsion de la lymphe chez certains poissons. Arch. anat. microsc., Paris, **8**, 1906, (398-423, av. 1 pl.).

Juday, Chancey. The food of the trout of the Kern river region. [*In*: Evermann, B. W. The golden trout of the southern High Sierras.] Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (1905), 1906, (43-49).

Jürgens, W. Ueber die Fortpflanzung des *Calliechys punctatus*. Wochenschr. Aquarienkunde, Braunschweig, **3**, 1906, (368-371).

Jürgens, W. und Köhler, W[alter]. Drei merkwürdige Fische von der Nigermündung. Bl. Aquarienkunde, Magde-

burg, **17**, 1906, (395-398, 403-404, 415-418).

Kammerer, Paul. Das Gefangenleben der Aulquappe (*Lota lota*, Linné). Bl. Aquarienkunde, Magdeburg, **17**, 1906, (143-145, 455).

Kammerer, P. und **Köhler**, W[alther]. Beiträge zur Oekologie, Anatomie und Phylogenie der elektrischen Fische. I. Oekologische Beobachtungen am Zitterwels (*Malapterurus electricus* (Gmel.) Lacép.) v. P. Kammerer. II. Die Zitterrochen (Torpedineae) nebst allgemeinen Bemerkungen über die Lebensweise elektrischer Fische v. P. Kammerer. III. Die Schnabelfische (*Mormyridae*) . . v. P. Kammerer. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (11-44, 53-55, 61-63, 73-76, 144-147, 156-159, 166-167).

Kappers, C. U. Ariens. The structure of the teleostean and selachian brain. J. Comp. Neur. Psych., Granville, Ohio, **16**, 1906, (1-112, with 16 pls.).

Kasanzeff, W. Ueber die Entstehung des Hautpanzers bei *Syngnathus acus*. Zool. Anz., Leipzig, **30**, 1906, (851-861).

Keller, Oszkár. A csontos halak elő- és közbülső agyának alakja. [Über die Morphologie des Vorder- und Zwischenhirns der Teleostier.] Állatt. Közlem., Budapest, **5**, 1906, (48-86, Taf. iii. u. 12 Textfig.).

Kendall, William Converse *vide* Evermann, B. W.

Kerr, J. G. The embryology of certain of the lower fishes and its bearing upon vertebrate morphology. Edinburgh, Proc. R. Physic. Soc., **16**, 1906, (191-215).

Kershaw, J. A. **1**. On some additions to the fish fauna of Victoria. Vict. Nat., Melbourne, **23**, 1906, (121-127).

Kershaw, J. A. **2**. General Zoology, Wilson's Promontory. Vict. Nat., Melbourne, **22**, 1906, (197-207).

Kistler, Herbert D. The primitive pores of *Polyodon spathula*. J. Comp. Neur. Psych., Granville, Ohio, **16**, 1906, (294-298, with pl.).

Kittlitz, Albert Freiherr v. **1**. Zur Entwicklung der Gefäße im Auge der Forelle. Anat. Hefte, Wiesbaden, Abt. I, **32**, 1906, (279-305).

Kittlitz, A. v. **2**. Zur Entwicklung der Gefäße im Auge der Forelle. Diss., Freiburg i. Br. Wiesbaden (J. F. Bergmann), 1906, (28). 25 cm.

Knipowitsch, N[ikolaï Michailovič]. **1**. Ichthyologische Untersuchungen im Eismeer. I. *Lycodes* und *Lycenchelys*. St. Peterburg, Mém. Ac. Sc., **19**, 1, 1906, (1-130, mit 1 Taf. u. 1 Karte).

[**Knipowitsch**, N. M.] **2**. Книповичъ, Н. М. Труды Каспійской Экспедиции 1904 года. Т. 1. Общій обзоръ работъ Каспійской экспедиции 1904 года. [Arbeiten der Kaspischen Expedition im J. 1904. Bd. 1. Allgemeine Uebersicht der Arbeiten der Kaspischen Expedition im J. 1904.] St. Peterburg, 1906, (1+1-101); deutsches Rés., (105-113, mit 2 Karten). 28 cm.

Köhler, W[alther]. Zur Nomenklatur von *Poecilia reticulata* Peters. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (497-498).

Köhler, W. *vide* Jürgens, W.

Köhler, W. *vide* Kammerer, Paul.

Körner, O. Können die Fische hören? Arch. Hydrobiol., Stuttgart, **2**, 1906, (9-20).

Kohaut, Rezső. A pisztráng falánk-ságáról. [Über die Fressgier der Forelle.] Term. Közl., Budapest, **38**, 1906, (637).

Koschkaroff, D. N. Beiträge zur Morphologie des Skelets der Teleostier. Das Skelet der Siluroidei. Moskva, Bull. Soc. Nat., **1905**, 1906, (209-307, Taf. und Textfigg.).

Krause, Rudolf. Das Gehörorgan der Petromyzonten. Anat. Anz., Jena, **29**, ErgH., 1906, (257-265).

Kuiper, T. **1**. Sur le mécanisme respiratoire des poissons osseux. Arch. ital. biol., Torino, **45**, 1906, (393-405).

Kuiper, T. **2**. Sul meccanismo respiratorio dei pesci ossei. Roma, Rend. Acc. Lincei, Ser. 5, **15**, 1906, (385-394, con 9 fig.).

Kulczycki, W. und **Nusbaum**, J. Zur Kenntnis der Drüsenzellen in der Epidermis der Knochenfische. Kraków, Bull. Intern. Acad., **1906**, (785-787).

Künstler, J. La mission de pêche du Banc d'Anguin. Rev. gén. marine march., Paris, **1905**, (1-68, av. fig.).

Künstler, J. et Chaîne, J. 1. Le *Centrisceus scolopax* L. dans l'océan Atlantique. Arcachon, Trav. soc. sci., station biol., **8**, 1905, [1906], (126).

Künstler, J. et Chaîne, J. 2. Note sur la Castagnole. Naturaliste, Paris, (sér. 2), **28**, 1906, (138-139).

Künstler, J. et Chaîne, J. 3. Note sur la Centrine humantini (*Centrina vulpecula* Bel.). Arcachon, Trav. soc. sci., station biol., **8**, 1905, [1906], (120-125, av. fig.).

[**Künstler, J. et Chaîne, J. 4.** Notice ichthyologique (Le *Beryx decadactylus* Cuv. et Val). Bordeaux, Proc.-verb. Soc. Sci. phys. nat., **1904**, (27-29, 50).]

Ladreyt vide Rouvière.

Lafite-Dupont, J. A. 1. Expérimentation sur les canaux semi-circulaires de l'oreille des poissons. Arcachon, Trav. soc. sci., station biol., **8**, 1905, [1906], (103-107).

(**Lafite-Dupont, J. 2.** Expérimentation sur l'orientation des poissons. Lésions des canaux semi-circulaires de l'oreille interne. Bordeaux, Actes soc. lin., (sér. 6, **10**), **60**, 1905, (Proc.-verb., lviii-lix). [5111-5131].)

[**Lagally, M.** Ueber Schutzfarben der Fische. Regensburg, Ber. natw. Ver., **9**, 1903, (35-51).]

Laguesse, E. Les "Stäbchendrüsenzellen" (M. Plehn) sont des Sporozoaires parasites. Anat. Anz., Jena, **28**, 1906, (414-416). — Entgegnung darauf v. Marianne Plehn. *l.c.* **29**, 1906, (152-156).

Larrabee, A. P. The optic chiasma of teleosts; a study of inheritance. Boston, Mass., Proc. Amer. Acad. Arts Sci., **42**, 1906, (217-231).

Lavanden, L. vide Pion-Gaud, P.

Lebailly, Charles. Recherches sur les hématozoaires parasites des Téléostéens marins. Arch. parasit., Paris, **10**, 1906, (318-404, av. fig.).

(**Léger, Louis. 1.** Coup d'œil sur la faune ichthyologique des eaux courantes du Grésivaudan. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (760-762).)

(**Léger, L. 2.** Sur la culture intensive de l'ombre-chevalier en espace limité. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (763-764).)

Léger, L. 3. La valeur nutritive des torrents des Alpes et les conséquences qui en découlent au point de vue du repeuplement. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (780-784).

Léger, L. 4. Argules et salmoniculture. Ann. Univ. Grenoble, Paris, **18**, 1906, (49-55, av. fig.).

Léger, L. 5. Sur une nouvelle maladie myxosporidienne de la truite indigène. Paris, C.-R. Acad. sci., **142**, 1906, (655-656).

(**Léger et Dodero.** Action nocive exercée sur les poissons par certains produits de déversements industriels dans les torrents du Dauphiné. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (765-773).)

Lenhossék, M. A periferikus idegrostok fejlődéséről. [Über die Entwicklung der peripherischen Nervenfasern.] Math. Term. Ért., Budapest, **23**, 1905, (190-229).

Leonhardt, E. 1. Ueber die Mopskopfbildung bei *Abramis rimba* L. Zool. Anz., Leipzig, **31**, 1906, (53-60).

Leonhardt, E. 2. Der Karpfen. Geschichte, Naturgeschichte und wirtschaftliche Bedeutung unseres wichtigsten Zuchtfisches. Neudamm (J. Neumann), 1906, (104). 21 cm. 2 M.

Leonhardt, E. 3. *Acara bimaculata* (L.). Natur u. Haus, Dresden, **14**, 1906, (312-313).

(**Leriche, Maurice. 1.** Note sur les *Cottus* fossiles, et en particulier sur *Cottus cervicornis* Storms, du Rupélien de la Belgique. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (677-679).)

Leriche, M. 2. Note sur les vertébrés éocènes de la Loire-inférieure. Nantes, Bul. soc. sci. nat., (sér. 2), **6**, 1906, (179-183).

Leriche, M. 3. Les poissons éocènes de la Belgique. Mém. Mus. Belgique, Bruxelles, **3**, 1905, (228, 9 pls.).

Letacq, A. L. 1. Sur les maumi-fères, les oiseaux et les poissons disparus ou en voie de disparition de la faune de l'Orne. Caen, Bul. Soc. lin., **9**, 1906, (52-73).

Letacq, L. 2. Sur un essai d'acclimatation du poisson-chat (*Amiurus albidus* Gibb.) fait dans l'étang de

Radon (Orne). Rouen, Bul. soc. amis sci. nat., **41**, 1906, (353-355).

Létang, de. Nouvelle méthode de pisciculture. Réempoissonnement des étangs, rivières et côtes maritimes. Bordeaux (Gounouillou), 1906, (177). 16°.

Lévadoux, Michel. Sur l'artère coronaire chez les Téléostéens. C.-R. ass. des anat., 6^e session, (Toulouse), Nancy, **1904**, (189-190).

Levander, K. M. Beiträge zur Kenntnis des Valkea-Mustajärvi-Sees der Fischereiversuchstation Evois. Helsingfors, Acta Soc. Fauna et Fl. Fem., **28**, 1906, (No. 1).

Levene, P[hoebus] A. und **Mandel**, J[ohn] A. Darstellung und Analyse einiger Nucleinsäuren. 11 Mitt.: Ueber die Nucleinkörper des Eies des Schellfisches (*Gadus aeglefinus*). 12. Mitt.: Nucleinsäure der Spermatozoen des Maifisches (*Alosa*). Hoppe-Seylers Zs. physiol. Chem., Strassburg, **49**, 1906, (262-265); **50**, 1906, (1-9).

Levi, Giuseppe. La struttura dei gangli cerebrospinali nei Selaci e nei Teleostei. Nota preliminare. Mon. zool. ital., Firenze, **17**, 1906, (242-248, con 3 fig.).

Lichtenfelt, H. Literatur zur Fischkunde. Eine Vorarbeit. Bonn (M. Hager), 1906, (viii+140). 24 cm. 5 M.

Lloyd, R. E. Natural history notes from the R.I.M.S. ship "Investigator," Capt. T. H. Heming, R.N. (retired), commanding. Series III, No. 14. Notes on the skull of the genus *Aulastomatomorpha*, with descriptions of some new deep-sea fish. Ann. Mag. Nat. Hist., London, **18**, 1906, (306-311, text figg.).

Lönnberg, Einar. 1. Pisces (Fische). [Forts.] (H. G. Bronn's Klassen u. Ordnungen des Tier-Reichs, Bd 6, Abt. 1, Lfg. 21. 22.) Leipzig (C. F. Winter), 1906, (305-336, mit Taf.). 26 cm.

[**Lönnberg**, E. 2. The fishes of the Swedish South Polar expedition. Wissenschaft. Ergeb. Schwed. Südpolar-Exp., **5**, Lief 6, 1905, (69 pp., 5 pls.).]

Löns, H. Bitte, die Wirbeltiere Hannover betreffend. Hannover, Jahresber. nat.-hist. Ges., **1905**, (217-264).

Löw, Immanuel. Aramäische Fischnamen. [In] Orientalische Studien,

Theod. Nöldeke zum 70. Geburtstag gewidmet . . . Giessen (A. Töpelmann), 1906, (549-570).

Lull, R. S. Volant adaptation in Vertebrates. Amer. Nat., Boston, Mass., **40**, 1906, (537-564).

Lund, C. Neues vom Aal. Umschau, Frankfurt a. M., **10**, 1906, (485-486).

Maier, Hermann Nicolaus. Beiträge zur Altersbestimmung der Fische I. Allgemeines. Die Altersbestimmung nach den Otolithen bei Scholle und Kabeljau. Wiss. Meeresunters., Kiel, N.F., **8**, Abt. Helgoland, 1906, (57-115, mit 2 Taf.).

Mandel, John A. v. Levene, Phoebus A.

Marage. Contribution à l'étude de l'addition des poissons. Paris, C.-R. Acad. sci., **143**, 1906, (852-853).

(**Marengi**, Giovanni. Alcune particolarità di struttura e di innervazione della cute dell'*Ammocoetes branchialis*. Milano, Mem. Ist. Lomb., Ser. 3, **10**, (19), fasc. 10, 1903, (195-203, con 1 tav.) [5407 5431].)

Mauro, Di, Salvatore D. Sopra una specie di *Orthogoriscus* nuova per Catania (*Orthogoriscus truncatus* Flem.) catturata presso l'Isola dei Ciclopi. Catania, Boll. Acc. Gioenia, N. Ser., fasc. **85**, 1905, (16-19, con 1 fig.).

Mazzarelli, Giuseppe. 1. L'attuale infezione da *Tetracotyle percae-fluviatilis* Moul. dei Pesci-persici del lago di Pusiano, e la moria dei Pesci-persici nei laghi di Varese e di Varano nell'anno 1898. Rivista mensile di Pesca, Milano, **8**, 1906, (142-144).

Mazzarelli, G. 2. Le condizioni della pesca nella provincia di Milano. Rivista mensile di Pesca, Milano, **8**, 1906, (301-325).

Mazzarelli, G. 3. L'origine di un paio di pinne pettorali soprannumerarie asimmetriche in un avannotto di *Salmo irideus* Gibb. Acquicoltura lombarda, Milano, **7**, N. 1-2-3, 1905, (13-15, con 1 fig.).

Mazzarelli, G. 4. Ricerche sulla Epizoozia degli Agoni (*Alosa finta*) manifestatasi nel lago di Lugano negli anni 1904 e 1905, Acquicoltura lombarda, Milano, **7**, 1905, (143-189, con 2 tav.).

Mazzarelli, G. vide Bellotti, C.

McGregor, Richard Crittenden *vide* Jordan, D. S.

McIndoo, N. E. On some fishes of Western Cuba. Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, 1906, (484-488).

McIntosh. Ichthyology in Japan. A review of Otaki, Fujita and Higurashi's Economic Fishes of Japan. Zoologist, London, **10**, 1906, (143-144).

McNair, P. The geology of the Ronken glen and its neighbourhood. Glasgow, Trans. Geol. Soc., **12**, 1906, (362-397).

Meek, Seth Eugene. Description of three new species of fishes from middle America. Chicago, Ill., Pub. Field Columb. Mus. Zool. Ser., **7**, 1906, (91-95).

Mercadante, L., **Jannaci**, F. e **Adorno**, M. La pesca del Pescespada (*Xiphias gladius*) in Calabria. Rivista mensile di Pesca, Milano, **8**, 1906, (171-181, 215-227, con 3 fig.).

Merciai, G. *Lepidosiren paradoxa* Fitzg. Riv. ital. sc. nat. Siena, **26**, 1906, (59-61).

Milroy, T. H. The food value of the herring. Edinburgh, Rep. Fish. Board, **24**, 1906, (17-48).

Mollier, S. **1**. Die erste Entwicklung des Herzens, der Gefässe und des Blutes: Teleostier. [In:] Hertwig, Handbuch der Entwicklungslehre der Wirbeltiere Lief. 27, 28, (1125-1154).

Mollier, S. **2**. Die erste Blut- und Gefässbildung bei Ganoiden. [In:] Hertwig, Handbuch der Entwicklungslehre der Wirbeltiere Lief. 27, 28, 1906, (1151-1164).

Morrill, C. V., *jun*. Regeneration of certain structures in *Fundulus heteroclitus*. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **12**, 1906, (11-20).

Mudge, Geo[orge] P. An abnormal dogfish (*Scyllium canicula*). Zool. Anz., Leipzig, **30**, 1906, (278-280).

Müllegger, S. Direkte Ueberführung von Stichlingen in Seewasser. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (320-321).

Murie, J. **1**. Flying fish near Rams-gate. Zoologist, London, **10**, 1906, (36-37).

Murie, J. **2**. Sea-bream in Essex waters. Stratford, Essex Nat., **14**, 1906, (238-240).

(N-9720 b)

Murray, J. A. Zahl und Grössenverhältnisse der Chromosomen bei *Lepidosiren paradoxa* Fitz. Anat. Anz., Jena, **29**, 1906, (203-208).

Nemiloff, Anton. Zur Frage über den Bau der Fettzellen bei *Acipenser ruthenus*. Anat. Anz., Jena, **28**, 1906, (513-522).

Neveu-Lemaire, M. El Titicaca y el Poopó. La Paz, Revista Minist. Coloniz. Agricultura, **2**, 1906, (568-591).

Ninni, E. Sopra due casi d'arresto della migrazione oculare. (*Pleuronectes italicus* Günth. *Solea vulgaris* Quens.) Milano, Atti. soc. ital. sc. nat., **44**, 1905, (193-197, text fig.).

Nordgaard, O. **1**. Flyndre i Snaasen vandet. [Flounders in the Snaasen-lake.] Bergen, Norsk Fisket., **25**, 1906, (101-103).

Nordgaard, O. **2**. Fedsilden og nedløren. [The fat-herring and the rainfall.] Bergen, Norsk Fisket., **24**, 1905, (403-414, 464-474, 523-527); **25**, 1906, (56-66, 93-101).

Nordgaard, O. **3**. Lidt om neren [*Sebastes marinus*.] [Etwas über *Sebastes marinus*.] Bergen, Naturen, **30**, 1906, (241-242).

Nordquist, O. Laxens uppstigande i Finlands och norra Sveriges elfvar. [Ascent of salmon in Finnish and N. Swedish rivers.] Fennia, Helsingfors, **22**, 1906, (1-58, with 12 pls.).

[**Nusbaum**, J. et **Reis**, C. Beiträge zur Anatomie und Physiologie des s. g. Ovals in der Schwimmblase der Fische. Kraków, Bull. Intern. Acad., **1906**, (778-780).]

Nusbaum, J. *vide* Reis, Karolina.

Oppel, A. Lehrbuch der vergleichenden mikroskopischen Anatomie der Wirbeltiere. Pt. vi. Atmungsapparat. Jena, 1905. [Review by A. K. Nature, London, **74**, 1906, (145-146).]

Osborne, W. A. and **Munty**, E. The action of carbon dioxide on the respiration of the gold fish. Bio-chem. J., Liverpool, **1**, 1906, (377).

Osburn, Raymond C[arroll]. The functions of the fins of fishes. Science, New York, N.Y., N. Ser., **23**, 1906, (585-587).

Ostroumoff, A[lexej]. Zur Entwicklungsgeschichte des Sterletts (*Acipenser ruthenus*). [II. Die Myomeren des Kopfes.] Zool. Anz., Leipzig, **30**, 1906, (275-278, 496-498).

Otaki, K., Fujita, T. and Tadashi, H. Fishes of Japan, an account principally on economic species. Tokyo, Japan, **1**, No. 4, 1906, (50 pp., 4 pls.).

Otterström, Andreas. Fiskeæg og Fiskeyngel i de danske Farvande. [Fish eggs and young fish stages in the waters round Denmark.] Kjöbenhavn, Ber. Biol. Stat., **13**, (1903-1904), 1906, (1-81).

Pantanelli, D. Ancora su i resti di *Ptychodus* nell' Appennino Emiliano. Modena, Atti. soc. nat. mat., **7**, 1905, (36-37).

Pappenheim, P[aul]. 1. Neue und ungenügend bekannte elektrische Fische (*Mormyridae*) aus den deutsch-afrikanischen Schutzgebieten. Berlin, SitzBer. Ges. natf. Freunde, **1906**, (260-264).

Pappenheim, P. 2. Eine alte Afrikanerfamilie [*Mormyridae*]. Aus d. Natur, Stuttgart, **2**, 1906, (340-344).

[Parker, G[eorge] H[oward]. The stimulation of the integumentary nerves of fishes by light. [With bibliography.] (Cont. Mus. Comp. Zool. Harvard Coll., No. **171**). Amer. J. Physiol., Boston, Mass., **14**, 1905, (413-420). [5411].)

Patten, William. Investigations relating to the origin of vertebrates. [Report on grant No. 157.] Washington, D.C., Carnegie Inst., Year Book No. 4, **1905**, 1906, (283-284).

Patterson, A. II. 1. Flying fish reported from Yarmouth. (?) Zoologist, London, **10**, 1906, (77).

Patterson, A. II. 2. Rare fish at Yarmouth. Zoologist, London, **10**, 1906, (354-355).

Patterson, A. II. 3. Some fish notes from Great Yarmouth for 1906. Zoologist, London, **10**, 1906, (453-458).

Patterson, A. II. 4. Anchovy at Yarmouth. Zoologist, London, **10**, 1906, (435).

Patterson, R. *Centriscus scolopax* in Irish waters. Irish Nat., Dublin, **15**, 1906, (191).

Pellegrin, Jacques. 1. Sur le genre *Cottocomephorus* et ses dérivés. Bul. Muséum, Paris, **1906**, (89-93).

Pellegrin, J. 2. Sur un *Salarias* nouveau de la baie de Tadjourah. Bul. Muséum, Paris, **1906**, (93-94).

Pellegrin, J. 3. Characinidés nouveaux du Congo. Bul. Muséum, Paris, **1906**, (366-368).

Pellegrin, J. 4. Collections recueillies par M. E. Haug dans l'Ogôoué. Poissons. Bul. Muséum, Paris, **1906**, (467-471).

Pellegrin, J. 5. Poissons nouveaux du Soudan. Bul. Muséum, Paris, **1906**, (472-474).

Pellegrin, J. 6. Catalogue des Characinidés africains des collections du Muséum d'histoire naturelle de Paris. Bul. Muséum, Paris, **1906**, (474-480).

Pellegrin, J. 7. Mission des pêcheries de la côte occidentale d'Afrique. Poissons. Bordeaux, Actes soc. linn., (sér. 6, **10**), **60**, 1905, (17-57).

Pellegrin, J. 8. Poisson nouveau du Niger appartenant au genre *Distichodus*. Paris, Bul. soc. zool., **31**, 1906, (109-110).

Pellegrin, J. 9. Poissons du Nil Bleu récoltés par M. Ch. Alluaud. Paris, Bul. soc. zool., **31**, 1906, (125-127).

Pellegrin, J. 10. Sur deux poissons du genre *Crenicichla* de la collection du Muséum de Paris. Paris, Bul. soc. zool., **30**, 1906, (166-169).

Pellegrin, J. 11. [in] Neveu-Lemaire. Les lacs des hauts plateaux de l'Amérique du sud. 1906. Poissons, (112-137, col. pl. and text figs.). 8vo.

Pellegrin, J. 12. Commensalisme de jeunes *Caranx* et de *Rhizostomidae*. Paris, C.-R. ass. franç. avanc. sci., **34**, (Cherbourg, 1905, 2^e partie), 1906, (570-571), et 1^{re} partie, (337).

Pellegrin, J. 13. Un poisson volant des eaux douces africaines. Nature, Paris, **34**, 1906, (1^{er} sem.), (385-387).

Pellegrin, J. 14. Les poissons d'eau douce de l'Indo-Chine française. Rev. colon., Paris, **1906**, (697-716).

Pellegrin. 15. Recherches sur les poissons entrant dans la composition de la Poutina, à Nice. Paris, Bull. ass. franç. avanc. sci., **1904**, (269).

(Pellegrin, J. 16. Recherches sur les poissons entrant dans la composition de la "Poutina" de Nice. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (920-923). [5403 5431].)

(Pellegrin, J. 17. Mission scientifique de Ch. Alluaud en Afrique orientale (juin 1903-mai 1904). Poissons. II: Systématique. Paris, Mém. soc. zool., **17**, 1905, (174-185, av. pl.). [5427 ff 5431].)

(Pellegrin, J. 18. Présentation de quelques cas de déviations rachidiennes chez les poissons. Paris, Bul. soc. zool., **27**, 1902, (215-219, av. figs.). [5423].)

(Pellegrin, J. 19. Mission J. de Créqui-Mountfort et E. Sénchal de la Grange. Note sur les poissons des lacs Titicaca et Poopo. Paris, Bul. soc. zool., **29**, 1904, (90-96). [5431 5427 hf].)

(Pellegrin, J. 20. Mission J. de Créqui Montfort et E. Sénchal de la Grange. Note sur les poissons de la côte chilienne. Paris, Bul. soc. zool., **29**, 1904, (117-121, av. fig.). [5431 5427 hk].)

(Pellegrin, J. 21. Diagnoses préliminaires de poissons nouveaux du lac Victoria, recueillis par M. Alluaud. Paris, Bul. soc. zool., **29**, 1904, (184-186). [5431 5427 j].)

(Pellegrin, J. 22. Mission permanente française en Indo-Chine. Poissons de la Baie d'Along (Tonkin). Paris, Bul. soc. zool., **30**, 1905, (82-88). [5431 5427 el].)

(Pellegrin, J. 23. Mission des Pêcheries de la côte occidentale d'Afrique dirigée par M. Gruvel. Poissons. Paris, Bul. soc. zool., **30**, 1905, (135-141). [5431 5427 la].)

(Pellegrin, J. et Glaize, E. P. Un cas d'intoxication par le barbeau au moment du frai. Paris, Bul. soc. zool., **28**, 1903, (143-145). [5419 5431].)

Perrier, Léon et Guyon, Joseph. La station de salmoniculture de Vizille (Isère) et l'organisation rationnelle du repeuplement des eaux en France. Ann. Univ. Grenoble, Paris, **18**, 1906, (69-85, av. fig.).

Perroncito. Quelques observations sur les maladies parasitaires des poissons. Paris, Bul. ass. franç. avanc. sci., **1904**, (266).

(N-9720 b)

Petersen, C. G. Joh. 1. Ueber die in den Jahren 1904 und 1905 an den Küsten der Ostsee beobachtete Brut von Plattfischen. Kjöbenhavn, Conseil permanent international pour l'exploration de la mer. (Ser. A, Rapports et procès-verbaux). **5**, 1906, (11-37, with 3 maps).

Petersen, C. G. J. 2. On the larval and post-larval stages of some *Pleuronectide* (*Pleuronectes*, *Zeugopterus*). Kjöbenhavn, Meddelelser fra Kommissionen for Havundersøgelser, (Ser. Fiskeri), **2**, No. 1, 1906, (1-10, with 1 pl.). 33 × 27.

Petersen, C. G. J. *vide* Hjort, Johan.

Petersen, Max. Zur Brutpflege der Lophobranchier. Zool. Jahrb., Jena, Abt. f. Syst., **24**, 1906, (265-306, mit 1 Taf.).

Philippi, Erich. 1. Kurzer Beitrag zur Kenntnis der Teleostiergenera *Glaridichthys* Garman und *Unesterson* Garman (Familie *Cyprinodontidae* s. *Poeciliidae*). Berlin, SitzBer. Ges. natf. Freunde, **1906**, (229-232).

Philippi, E. 2. Ein neuer deszendenztheoretisch interessanter Fall von Viviparität bei einem Teleostier. Berlin, SitzBer. Ges. natf. Freunde, **1906**, (235-237).

Philippi, E. *vide* Wandolleck, B.

Pion-Gaud, P. L'élevage du poisson-chat (*Amiurus nebulosus*) dans les étangs du Dauphiné. Paris, Bull. ass. franç. avanc. sci., **1904**, (259).

(Pion-Gaud, P. et Lavauden, Louis. L'acclimation et l'élevage du poisson-chat dans les étangs du Bas-Dauphiné. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (749-755). [5427 df 5431].)

Plehn, Marianne. 1. Die Fische des Meeres und der Binnengewässer. (Bilderatlas des Tierreichs, hrsg. v. Kurt Lampert, Tl. I.) Esslingen n. München (J. F. Schreiber), [1906], [viii+190+vi, mit 36 Taf.]. 25 cm. Geb. 10 M.

Plehn, M. 2. Ueber eigentümliche Drüsenzellen im Gefäßsystem und in anderen Organen bei Fischen. (Vorl. Mitt.) Anat. Anz., Jena, **28**, 1906, (192-203).

Policard, A. *vide* Renant, J.

Pond, Raymond H[aines]. How rooting aquatic plants influence the nutrition of the food fishes of our great lakes. *Pop. Sci. Mon.*, New York, N.Y. **68**, 1906, (251-254).

Pope, Thomas E. B. *vide* Smith, H. M.

Popoff, M. Fischfärbung und Selektion. *Biol. Centralbl.*, Berlin, **26**, 1906, (272-282).

Popta, C[arna] M[aria] L[ouisa]. Résultats ichthyologiques des voyages scientifiques de Monsieur le Professeur Dr. A. W. Nieuwenhuis dans le centre de Bornéo (1898 et 1900). Leiden, *Notes Mus. Jentink*, **27**, 1905-1906, (1-304, av. 10 pls.).

(Portier, P. 1. Sur la température du *Thynnus alalunga*. Paris, *Bul. soc. zool.*, **28**, 1903, (79-81). [5411 5431].)

Portier, P. 2. Les poissons électriques. *Bull. Mus.*, Monaco, No. **76**, 1906, (26, text figs.).

(Price, Geo. C. A further study of the development of the excretory organs in *Bdellostoma stouti*. *Amer. J. Anat.*, Baltimore, Md., **4**, 1904, (117-138). [5415].)

Priem, F. Sur des poissons fossiles de l'Éocène moyen d'Égypte. Paris, *Bul. soc. géol.*, sér. 4, **5**, 1905, (633-641).

Prince, E. E. The swim bladder of fishes a degenerate gland. Halifax, N.S., *Proc. and Trans. Nova Scotian Inst. Sci.*, **11**, 1906, (199-226, 4 pls.).

Prince, E. E. and Halkett, A. The eggs of the fresh-water ling. *Ottawa Nat.*, **19**, 1906, (219-224).

Przibram, Hans *vide* Grosser, O.

Quackenbush, L. S. Larval conger eels on the Long Island coast. *Science*, New York, N.Y., N. Ser., **23**, 1906, (702-703).

Quinton, René. 1. Degré de concentration saline du milieu vital de l'anguille dans l'eau de mer et dans l'eau douce et après son passage expérimental de la première dans la seconde. Arcachon, *Trav. soc. sci., station zool.*, **8**, 1905, [1906], (108-111); Paris, *C.-R. Acad. sci.*, **139**, 1901, (928).

Quinton, R. 2. De quelques phénomènes accompagnant chez l'anguille la passage expérimental de l'eau de mer dans l'eau douce. Arcachon, *Trav. soc.*

sci. station biol., **8**, 1905, [1906], (112-113).

Quinton, R. 3. Communication osmotique chez le poisson sélacien marin entre le milieu vital et le milieu extérieur. Arcachon, *Trav. soc. sci., station zool.*, **8**, 1905, [1906], (114-116); *C.-R. Acad. sci.*, **139**, 1904, (995).

Quinton, R. 4. Absence de communication osmotique chez le poisson téléostéen marin entre le milieu vital et le milieu extérieur. Arcachon, *Trav. soc. sci. station biol.*, **8**, 1905, [1906], (117-119).

Račovitza, Emile G. Observations sur un banc d'Anchois (*Engraulis encrasicolus* L.) rencontré près de l'île Cabrera (Baléares). Paris, *Bul. soc. zool.*, **1904**, (211-218).

Redeke, H[einrich] C[arl]. 1. Verslag omtrent onderzoekingen over het voedsel van eenige visschen. [Report on the food of some fishes.] Helder, *Jaarb. Onderz. Zee*, **1905**, 1906, (88-111).

Redeke, H. C. 2. Die holländischen Versuche mit gezeichneten Schollen 1903-1905. Helder, *Verh. Onderz. Zee*, **1**, 2, 1905, (1-22).

Regan, C. T. 1. A classification of the Selachian fishes. London, *Proc. Zool. Soc.*, **1906**, 2, (722-758).

Regan, C. T. 2. On the freshwater fishes of the island of Trinidad, based on the collection, notes, and sketches, made by Mr. Lechmere Guppy, Jr. London, *Proc. Zool. Soc.*, **1906**, 1, (378-393 pls. xxi-xxv).

Regan, C. T. 3. Pisces. *Biol. Centr. Amer.* London, Part exciii, 1906, (1-32, pls.).

Regan, C. T. 4. Descriptions of new or little-known fishes from the coast of Natal. *Ann. Natal Govt. Mus.*, London, **1**, pt. 1, 1906, (1-6, pls. i-v).

Regan, C. T. 5. Two new Cyprinoid fishes from the Helmand Basin. Calcutta, *J. As. Soc. Beng.*, **2**, 1906, (8-9).

Regan, C. T. 6. A revision of the South American cichlid genera *Retroculus*, *Geophagus*, *Heterogramma* and *Biotocetus*. *Ann. Mag. Nat. Hist.*, London, **17**, 1906, (49-66).

Regan, C. T. 7. Notes on some Loricariid fishes, with descriptions of two new species. *Ann. Mag. Nat. Hist.*, London, **17**, 1906, (94-98).

Regan, C. T. 8. The Vendaces of Lochmaben and of Derwentwater and Bassenthwaite Lakes, *Coregonus vandesius* and *Coregonus gracilior*. *Ann. Mag. Nat. Hist.*, London, **17**, 1906, (180-182).

Regan, C. T. 9. A revision of the fishes of the South American cichlid genera *Cichla*, *Chaetobranchius* and *Chaetobranchopsis*, with notes on the genera of the American *Cichlidae*. *Ann. Mag. Nat. Hist.*, London, **17**, 1906, (230-249).

Regan, C. T. 10. Descriptions of two new Cyprinid fishes from Yunnan Fu, collected by Mr. John Graham. *Ann. Mag. Nat. Hist.*, London, **17**, 1906, (332-333).

Regan, C. T. 11. Descriptions of five new freshwater fishes from Sarawak, Borneo, collected by Dr. C. Hose. *Ann. Mag. Nat. Hist.*, London, **18**, 1906, (66-68).

Regan, C. T. 12. Description of a new Cyprinodont fish of the genus *Jenynsia* from Argentina. *Ann. Mag. Nat. Hist.*, London, **18**, 1906, (154).

Regan, C. T. 13. Descriptions of some new sharks in the British Museum Collection. *Ann. Mag. Nat. Hist.*, London, **18**, 1906, (435-440).

Regan, C. T. 14. A collection of fishes from the King River, Western Australia. *Ann. Mag. Nat. Hist.*, London, **18**, 1906, (450-455).

Reichelt, J[ulius]. 1. *Hemiramphus fluvialilis*. Halbschnäbeliger Hecht aus Malakka. *Natur u. Haus*, Dresden, **14**, 1906, (118-120).

Reichelt, J. 2. *Luciocephalus pulcher*, lebendgebärender Hecht aus Sumatra, und *Osphromenus malayanus*, lebendgebärender Gurami . . . *Wochenschr. Aquarienkunde*, Braunschweig **3**, 1906, (4-5, 122-123).

Reinhold, Robert. Einige Beobachtungen hinsichtlich des gemeinen Schleimfisches (*Bleinius vulgaris* Pollini). *Bl. Aquarienkunde*, Magdeburg, **17**, 1906, (203-205, 252).

Reis, K[arolina]. 1. Materyały do morfologii i fizyologii pęcherza pławnego

ryb kostnoszkieletowych. [Beiträge zur Kenntnis der Gasdrüse bei den Knochenfischen.] Kraków, Rozpr. Akad., **46 B**, 1906, (639-701, mit 3 Taf.).

Reis, K. 2. Dalsze przyczynki do badań nad gruczołem gazotwórczym ryb kostnoszkieletowych. (Weitere Beiträge zur Kenntnis der Gasdrüse bei den Knochenfischen.) Kraków, Bull. Intern. Akad., **1906**, (771-777).

Reis, K. und Nusbaum, Józef. Weitere Studien zur Kenntnis des Baues und der Funktion der Gasdrüse und des Ovals in der Schwimmblase der Knochenfische (*Ophidiidae*, *Percidae*). *Anat. Anz.*, Jena, **28**, 1906, (177-191, mit 2 Taf.).

Remeš, M. Fauna t. zv. exotických balvanů štramberského vápence v Rychalticích na Moravě. [Exotic fauna found in limestone boulders, Moravia.] Prag, Rozpr. České Ak. Frant. Jos., **14**, No. 6, 1905, (1-9).

Renaut, J. et Policard, A. Etude histologique et cytologique sommaire de l'organe de l'*Ammocetes branchialis* improprement nommé corps thyroïde. Disc. : H. Strasser. C.-R. ass. anat., 7^e session, (Genève), **1905**, Nancy, 1906, (59-68).

Rennie, John. Accessory fins in *Raia batis*. *Anat. Anz.*, Jena, **28**, 1906, (428-431).

([**Romanovskij, G. D.**] Романовскій, Г. Д. Замѣтка объ ископаемой рыбѣ *Lyrolepis caucasicus* Rom. [Notiz über den Fossilfisch *Lyrolepis caucasicus* Rom.] St. Peterburg, Verh. Russ. mineral. Ges., **42**, 1904, (1-8, mit Taf. i). [5407-5431].)

Ronchetti-Monteviti, G. e. Belletti, C.

Roques, E. G. Répartition des chromoblastes dans le péritoine de quelques Cyprinidés. C.-R. ass. anat., 6^e session, (Toulouse), Nancy, **1904**, (169-171).

Roques, Lucien. Sur la respiration des poissons et la technique employée à son étude. Paris, C.-R. soc. biol., **60**, 1906, (287-289).

Roule, Luigi. 1. Impianto e trattamento di un vivaio di Ciprinidi. Acquicoltura Lombarda, Milano, **7**, 1905, (19-25).

Roule. 2. La faune ichthyologique des Pyrénées et du sud-ouest de la France. Paris, Bul. ass. franç. avanc. sci., **1904**, (267).

Rouvière et Ladreyt. Sur certains stades du développement des hématies chez *Scyllium canicula*. Paris, C.-R. ass. franç. avanc. sci., **34**, (Cherbourg, 1905, 2^e Partie), 1906, (603-604).

Rowntree, W. S. On the dentition of the Characineoid genus *Piabuca*: a new generic character. Ann. Mag. Nat. Hist., London, **17**, 1906, (210-243, text-figs.).

Rozwadowski, J. 1. Nasze ryby. Szymp (Acipenser schypa—der Dick). [Nos poissons: Acipenser schypa.] Okóln. Tow. ryb., Kraków, **1906**, (26-29).

Rozwadowski, J. 2. Nasze ryby. Sterlet czyli czeczuga. (Acipenser ruthenus—der Sterlet). [Nos poissons: le sterlet.] Okóln. Tow. ryb., Kraków, **1906**, (155-159, 185-187).

Rückert. Die Entstehung des Blutes und der ausserembryonalen Gefässe in den meroblastischen Eiern: Selachier. [In] Hertwig: Handbuch der Entwicklungslehre der Wirbeltiere, Lief. 27, 28, 1906, (1090-1125).

Růžička, Vladislav. Berichtendes zur Histologie des zentralen Nervensystems. [Betr. E. Mencl, Histol. des elektr. Lappens v. *Torpedo*, 1902.] Arch. mikr. Anat., Bonn, **68**, 1906, (684-686).

Rynberk, G. van. 1. Sul riflesso orbicolare delle palpebre nel pesce cane (*Scyllium*). Roma, Rend. Acc. Lincei, Ser. 5, **15**, 1^o Sem., 1906, (53-55).

Rynberk, G. v. 2. Sur quelques phénomènes spéciaux de mouvement et d'inhibition chez le requin ("Scyllium"). Arch. ital. biol., Torino, **45**, 1906, (58-62).

Rynberk, G. v. 3. Sulla metametameria nel sistema nervoso simpatico. 1. L'innervazione pigmento motrice. Roma, Archivio Fisiol., **51**, 1906, (601-608, 2 tav.).

Rynberk, G. v. 4. Recherches sur la respiration des poissons. Arch. ital. biol., Torino, **45**, 1906, (183-198).

Sacco, F. Les étages et les faunes du Bassin tertiaire du Piémont. Paris, Bul. soc. géol., sér. 4, **5**, 1905, (893-916).

Sæmundsson, Bjarni. Fiskirannsóknir 1905. [Ichthyological researches 1905.] Reykjavik, Andvari, **31**, 1906, (105-148).

Santer, Max. Das Messen toter und lebender Fische für systematische und biologische Untersuchungen. Arch. Hydrobiol., Stuttgart, **2**, 1906, (143-185).

Sandman, I. Alb. Kurzer Bericht über die in Finnland ausgeführten Untersuchungen. A: über *Pleuronectes flesus*; B: über *Rhombus maximus*; C: über *Gadus callarias*. Kjöbenhavn, Conseil permanent international pour l'exploration de la mer, (sér. A, Rapports et procès-verbaux), **5**, 1906, (37-41).

Schaffer, Josef. Berichtigung, die Schilddrüse von *Myxine* betreffend. Anat. Anz., Jena, **28**, 1906, (65-73).

Scharff, R. F. 1. The oblong sunfish off the coast of Ireland. Irish Nat., Dublin, **15**, 1906, (275).

Scharff, R. F. 2. Large fox shark on the coast of Donegal. Irish Nat., Dublin, **15**, 1906, (156).

Scharff, R. F., Ussher, R. J., Cole, G. A. J., Newton, E. T., Dixon, A. F. and Westropp, T. J. The exploration of the caves of Co. Clare. Dublin, Trans. R. Irish Acad., **33**, 1906, (1-76, pls. i-v).

Schelaputin, Gr. Beiträge zur Kenntniss des Skelets der Welse (Das Cranium von *Clarias*). Moskva, Bull. Soc. Nat., **1905**, 1906, (85-126, 17 Textfig.).

Schlichter, Heinrich. Ueber den feineren Bau des schwach-elektrischen Organs von *Mormyrus oxyrhynchus* Geoffr. Zs. wiss. Zool., Leipzig, **84**, 1906, (479-525, mit 3 Taf.).

Schmidt, Joh. 1. The pelagic postlarval stages of the Atlantic species of *Gadus*. A monograph. Part 2. Kjöbenhavn, Meddelelser fra Kommissionen for Havundersøgelser, (Ser. Fiskeri), **2**, No 2, 1906, (1-20, with 1 pl.). 33 × 27.

Schmidt, J. 2. On the pelagic postlarval stages of the lings (*Molva molva*, Linné and *Molva byrkelange*, Walbaum). Kjöbenhavn, Meddelelser fra Kommissionen for Havundersøgelser, (Ser. Fiskeri), **2**, No 3, 1906, (1-16, with 1 pl.). 33 × 27.

Schmidt, J. 3. Contributions to the life history of the eel. (Eng. with Germ. summ.) Kjöbenhavn, Cons. perm. intern. explor. mer, (Ser. A. Rapp. et pr. verb.).

5 Rapp. sur les trav. de la Comm., C. 2, 1903-06, 1906, (137-274, etc.).

Schröder, Wilh. *Bunocephalus* sp. Kner. Ein eigenartiger Wels aus Amerika. Wochenschr. Aquarienkunde, Braunschweig, **3**, 1906, (591-592).

Schubert, R[ichard] J[ohann]. **1**. Einige Bemerkungen zur Fischfauna der Aemilia. Wien, Verh. Geol. Rchs-Anst., **1906**, (321-323).

Schubert, R. J. **2**. Ueber die Fischotolithen des österreichisch-ungarischen Neogens. Wien, Verh. Geol. Rchs-Anst., **56**, 1906, (124-127).

Schubert, R. J. **3**. Die Fischotolithen des österr[eichisch]-ungar[ischen] Tertiärs. III. Wien, Jahrb. Geol. Rchs-Anst., **56**, 1906, (623-706, mit 3 Taf.).

Schultze, Oskar. Zur Frage von dem feineren Bau der elektrischen Organe der Fische. Biol. Centralbl., Leipzig, **26**, 1906, (640-656); Festschrift für I. Rosenthal, Tl 1, Leipzig (G. Thieme), 1906, (101-118).

Scott, A. **1**. Sea fish hatching at Piel. Liverpool, Proc. Trans. Biol. Soc., **20**, 1906, (158-160).

Scott, A. **2**. Report on tow-nettings [from the Irish Sea]. Liverpool, Proc. Trans. Biol. Soc., **20**, 1906, (164-190).

Scott, T. Observations on the otoliths of some teleostean fishes. Glasgow, Rep. Fish. Board, **24**, 1906, (48-82, pls. 1-5).

Seale, Alvin. Fishes of the south Pacific. Honolulu, H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, 1906, (1-89, pl.). 24.5 cm.

Seale, A. *vide* Evermann, B. W.

Seale, A. *vide* Jordan, D. S.

Seale, A. *vide* Smith, H. M.

Service, R. **1**. Red mullet (*Mullus barbatus*) in the Solway. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (51).

Service, R. **2**. Maigre (*Sciaen squilla*) in the Solway. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (51).

Silvester, C. F. *vide* Dahlgren, Ulric.

Sinel, J. The fishes of the Channel Islands. Guernsey, Trans. Soc. Nat. Sci., **1905**, 1906, (56-65).

Smith, H[ugh] M[cCormick]. The International Fishery Congress, 1908.

Science, New York, N.Y., N. Ser., **24**, 1906, (57-58).

Smith, H. M. and **Pope**, Thomas E. B. List of fishes collected in Japan in 1903, with descriptions of new genera and species. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **31**, 1906, (459-499).

Smith, H. M. and **Seale**, Alvin. Notes on a collection of fishes from the island of Mindanao, Philippine archipelago, with descriptions of new genera and species. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (73-82).

Snyder, John Otterbein *vide* Jordan, D. S.

Srdínko, O. V. **1**. Circulation du sang dans les capsules surrénales des vertébrés. Prag, Bull. Ac. Sci. Franç. Jos., **10**, 1905, (71-86, 5 pls.).

Srdínko, O. V. **2**. O oběhu krevním v nadledvině obratlovců. [Circulation du sang dans les capsules surrénales des vertébrés.] Prag, Rozpr. České Ak. Frant. Jos., **41**, 1905, No 12, (1-44, 1 pl.).

Stach, Jan. Sandacze z "mopsią głową." [Sandats à tête de carlin.] Okóln. Tow. ryb., Kraków, **1906**, (9-12).

Starks, Edwin Chapin. **1**. On a collection of fishes made by P. O. Simons in Ecuador and Peru. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, 1906, (761-800, with pl.).

(**Starks**, E. C. **2**. The osteology of *Caularchus macandrieus* (Girard). Wood's Holl, Mass., Mar. Biol. Lab. Bull., **9**, 1905, (292-303). [5407].)

Starks, E. C. *vide* Jordan, D. S.

Stazzi, Pietro. Psorospermiosi o Mixoboliasi tuberosa dei barbi. Rivista mensile di Pesca, Milano, **8**, 1906, (14-19, con 3 fig.).

Stead, D. G. **1**. [Foetus of *Pristiophorus cirratus*.] Zool. Anz., Leipzig, **30**, 1906, (822-823).

Stead, D. G. **2**. Fishes of Australia. A popular and systematic guide to the study of the wealth within our waters. Vol. I. Sydney, N.S.W., 1906, (xii + 278, with 9 pls.) 22 cm.

Steindachner, F. **1**. Über eine neue Gattung und Art aus der Familie der *Muraenidae nettastomops barbatula*. Wien, Anz. Ak. Wiss., **1906**, (299-300).

Steindachner, F. 2. Ueber zwei neue *Corydoras*-Arten aus dem Parna-hyba und Parahimflusse im Staate Piahy. 1. *Corydoras treilli*. 2. *C. julii*. Wien, Anz. Ak. Wiss., **1906**, (178-180).

Stephan, P. Le fonctionnement des grandes cellules à granulations éosino-philés du tissu lymphoïde du Protoptère. Paris, C.-R. soc. biol., **61**, (501-503); Réunion biologique de Marseille, **1906**, (51-53).

Sterzi, G. Intorno alla struttura dell'ipofisi nei vertebrati. Padova, Atti acc. ven.-trent., **1904**, (70-141).

Steuert, L. Widerstandsfähigkeit der Forelleneier gegen mechanische Insulte. Natw. Zs. Landw., Stuttgart, **4**, 1906, (92-96).

Stewart, C. 1. On the membranous labyrinth of certain sharks. London, J. Linn. Soc. Zool., **29**, 1906, (407-409, pl. xl).

Stewart, C. 2. On the membranous labyrinth of *Echinorhinus*, *Cestracion* and *Rhina*. London, J. Linn. Soc. Zool., **29**, 1906, (439-442, pl. xlv).

Stockard, Charles R. 1. The development of the thyroid gland in *Bdellostoma stouti*. Anat. Anz., Jena, **29**, 1906, (91-99).

Stockard, C. R. 2. The development of the mouth and gills in *Bdellostoma stouti*. Baltimore, Md., Proc. Ass. Amer. Anat., **5**, 1906, (481-517, text figs.).

Stockard, C. R. 3. The development of *Fundulus heteroclitus* in solutions of lithium chloride, with appendix on its development in fresh water. J. Exp. Zool., Baltimore, Md., **3**, 1906, (99-120).

Stockard, C. R. 4. The development of *Fundulus heteroclitus* in solutions of lithium chloride. [Autoreferate der im Journal of Exp. Zool., **3**, 1906, erschienenen Arbeit.] Arch. Entw.Mech., Leipzig, **21**, 1906, (359).

[**Stoll, A. A.**] Столь, А. А. Лерая-щая рыба въ аквариумѣ (*Nuria danica*). [*Nuria danica* im Aquarium.] Naturfreund, St. Petersburg, **1**, 1906, (207-209).

Strödtmann, S. Laichen und Wandern der Ostseefische. II. Bericht. (Arb. d. D. wiss. Kommission f. d. internat. Meeresforschung. B. 4.) Wiss.

Meeresunters., Kiel, N.F., **7**, Abt. Helgoland, 1906, (133-206, mit 1 Karte).

Stropahl, E. Die Schleienzucht . . . Stettin (Herrcke & Lebeling), 1906, (viii + 63, mit 8 Taf.). 23 cm. 2,50 M.

Studnička, F[rantišek] K. Drüsenzellen und Cuticulargebilde der Epidermis von *Lepadogaster*. Anat. Anz., Jena, **29**, 1906, (132-144, 208).

(**Sullivan, M[ichael] X[avier]**). The physiology of the digestive tract of elasmobranchs. Amer. J. Physiol., Boston, Mass., **15**, 1905, (12-45). [5411].

Sumner, Francis B[ertody]. 1. The physiological effects upon fishes of changes in the density and salinity of water. Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (1905), 1906, (11. + 53-108).

Sumner, F. B. 2. The osmotic relations between fishes and their surrounding medium (preliminary note). Wood's Holl, Mass., Mar. Biol. Lab. Bull., **10**, 1906, (298-306).

Supino, Felice. 1. Osservazioni sopra i corpi postbranchiali dei pesci. Roma, Ric. Lab. anat. norm., **12**, fasc. 4, 1907, (253-256).

Supino, F. 2. Morfologia del cranio dei teleostei. Roma, Fasc. 6, Plectognathii, 1905, Fasc. 2, Lophobranchii, 1906.

Supino, F. 3. Ricerche sul cranio dei Teleostei. IV. *Pomatomus*, *Hoplostethus*. Roma, Ric. Lab. anat. norm., **9**, fasc. 3, 1903, (217-232, con 1 tav.).

Supino, F. 4. Il *Chlopsis bicolor* Raf. Roma, Ric. Lab. anat. norm., **11**, fasc. 1-2, 1905, (25-31).

Supino, F. 5. Il *Saurenhelys cancrivora* Peters. Roma, Ric. Lab. anat. norm., **11**, fasc. 1-2, 1905, (143-149).

Supino, F. 6. Il *Todarus brevirostris*. Roma, Ric. Lab. anat. norm., **11**, fasc. 3, 1905, (255-259).

Swenander, Gust. Beiträge zur Kenntnis der Fische des Trondhjemsfjords. (Schwed.) Trondhjems. kgl. Vid. selsk. Skr., No. **9**, (1905), 1906, (112, mit 5 Taf.).

Teller, Edgar E. Notes on the fossil fish-spine. *Phlyctaenacanthus telleri* (Eastman). Milwaukee, Bull. Wis. Nat.

Hist. Soc., N. Ser., **4**, 1906, (162-167, with pl.).

Terni, Camillo. **1.** Esoftalmia epizootica nei pesci. Nota di patologia comparata. Rivista mensile di Pesca, Milano, **8**, 1906, (121-141, 153-160, con 2 tav.).

Terni, C. **2.** Esoftalmia epizootica nei pesci. Milano, Atti Soc. ital. sc. nat., **45**, 1906, (1-32, pl. 1-2).

Thilo, Otto. Die Luftwege der Schwimmblasen. Zool. Anz., Leipzig, **30**, 1906, (591-601).

Thomson, G. M. The Portobello marine fish-hatchery and biological station. Wellington, Trans. & Proc. N. Zeal. Inst., **38**, 1905, (529-558).

Thumm, Johannes. Das Laichen der Schwarznase, Ellritze und Schmerle. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (169-171).

Tikhenko, S. Sur l'origine du mésenchyme chez le sterlet (*Accipenser ruthenus*). Zool. Anz., Leipzig, **30**, 1906, (728-730).

Tiššov, V. N. *vide* Tschoff, V. N.

Tokunaga, Shigeyasu. Fossils from the environs of Tokyo. Tokyo, J. Coll. Sci., **21**, Art. 2, 1906, (1-96, with 6 pls.).

Tower, R[alph] W[infred]. The voices of fishes. New York, N.Y., Zool. Soc. Bull., No. **21**, 1906, (278-279).

Townsend, C[hables] B[askins] and **Barbour**, Thomas. Description of a new species of sea-horse from Bermuda. New York, N.Y., Zool. Soc. Bull., No. **23**, 1906, (304-305).

Traquair, R. H. **1.** Notes on the lower carboniferous fishes of Eastern Fifehire. Edinburgh, Proc. R. Physic. Soc., **16**, 1906, (80-87).

Traquair, R. H. **2.** A new palaeoniscid fish from the base of the Pendle-side series near Holywell. Geol. Mag., London, (5), **3**, 1906, (556-558, text figg.).

Traquair, R. H. **3.** A monograph of the fishes of the Old Red Sandstone of Britain. Pt. 2. No. 3. The *Asterolepidae*. London, Monogr. Palaeont. Soc., **40**, 1906.

Traquair, R. H. **4.** Notes on the fish-remains from Watergate Bay in Cornwall. In: Reid, C. and Scrivenor, J. B. The geology of the country near

Newquay. Mem. Geol. Surv. U. K., Sheet 346, 1906, (11).

Trois, E. F. Nota sopra un esemplare di *Scymnus lichia* preso nell'Adriatico. Venezia, Atti Ist. ven., **65**, Ser. 8, **8**, 1905-1906, (65-68).

Trojan, Emanuel. **1.** Ein Beitrag zur Morphologie des Tiefseefischgehirnes. (Reports on an exploration off the west coasts of Mexico . . .) Cambridge, Mass., Mem. Mus. Comp. Zool., Harvard Coll., **30**, 1906, (219-255, with 6 pl.).

Trojan, E. **2.** Neuere Arbeiten über die Leuchtorgane der Fische. (Zusammenfassende Uebersicht.) Zool. Centralbl., Leipzig, **13**, 1906, (273-284).

Tschermak, A[rmin] *vide* Bernstein, J[ulius].

[**Tschoff**, V. N.] Тюшовъ, В. Н. По западному берегу Камчатки. [Le long de la côte occidentale de Kamtschatka.] St. Peterburg, Zap. Russ. Geogr. Obsč., **37**, 2, 1906, (i-xii + 1-521, mit 1 Karte).

Tur, Jan. Sur l'influence des rayons du radium sur le développement de la roussette (*Scyllium canicula*). Arch. zool., Paris, sér. 4, **5**, 1906, Notes et revues, (xxxix-xlviii).

Usher, W. A. E. *v.* Woodward, H. B.

Ussoff, S. A. Vergleichend-embryologische Studien des axialen Skelettes (Pisces). Anat. Anz., Jena, **29**, 1906, (433-452).

Vaillant, Léon. **1.** Sur les poissons recueillis pendant l'expédition antarctique française commandée par le Dr Jean Charcot. Bul. Muséum, Paris, **1906**, (138-140).

Vaillant, L. **2.** Sur une nouvelle espèce de *Chenichthys* provenant de l'expédition antarctique française sous le commandement du Dr. Jean Charcot. Bul. Muséum, Paris, **1906**, (246-247).

(**Vaillant**, L. **3.** Poissons recueillis par M. A. Pavie en Indo-Chine. Mission Pavie, **3**, 1901, (459-170). [5127 *cd* 5431].)

Vaillant, L. **4.** Le genre *Alabes* de Cuvier. (Description de poissons nouveaux ou imparfaitement connus de la collection du Muséum d'histoire naturelle). Nouv. arch. Muséum, Paris, sér. 4, **7**, 1905, (152-158).

Varigny, H. de. La question de la Pisciculture marine. Rev. sci., Paris, (sér. 5), **6**, 1906, (207-210).

Vávra, V. O zkrácení páteře u pstruha duhovčho. [On shortening of the spinal column in the rainbow trout.] (*Salmo iridaceus* W. Gibb.) Prag, Rozpr. České Ak. Frant. Jos., **15**, 1906, No. 6, (1-5, with 2 pls.).

Vialleton, L. Sur le développement des fentes branchiales de la Torpille. Paris, C.-R. soc. biol., **61**, 1906, (11-13).

Vidal, L. M. y Depéret, C. Contribution al estudio del oligoceno en Cataluña. [Contribution à l'étude de l'Oligocène en Catalogne.] Barcelona, Mem. R. Ac. Cs., **5**, 1906, (311-327) (Spanish); *l.c.* (329-345) (French).

Volz, Walter. 1. Über das Auge von *Periophthalmus* und *Boleophthalmus*. Bern, Mitt. Natf. Ges., **1906**, (108-111).

Volz, W. 2. Der Circulations- und Respirationsapparat von *Monopterus javanensis* Lac. (Reise von Dr. Walter Volz.) Zool. Jahrb., Jena, Abt. f. Anat., **23**, 1906, (163-186, mit 1 Taf.).

Waite, Edgar R[avenswood]. 1. Descriptions of and notes on some Australian and Tasmanian fishes. Sydney, N.S.W., Rec. Austr. Mus., **6**, 1906, (191-210, with 3 pls.).

Waite, E. R. 2. Studies in Australian Sharks, III. Sydney, N.S.W., Rec. Austr. Mus., **6**, 1906, (226-229, with 3 pls.).

(**Waite, E. R.** 3. The breeding habits of the paradise fish (*Polyacanthus opercularis*, Linnaeus). Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (1-4). [5419 5431])

(**Waite, E. R.** 4. Notes on fishes from Western Australia, III. Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (55-82, with 10 pls. and text fig.). [5427 *ik* 5431].)

Waldschmidt, E[rnst]. Die Bedeutung der Schwimmblase für die Fische. [Schwimmblase als Sinnesorgan.] Elberfeld, Jahresber. natw. Ver., **11**, 1906, (50).

Wandolleck, Benno, Philippi, Erich u. Weltner, W[ilhelm]. [Jahresbericht über] Pisces für 1893. Arch. Natg., Berlin, **66**, Bd 2, H. 1. 1900 [1906], (183-238).

Ward, John. Contributions to the geology and palaeontology of the Cheadle Coalfield. Stafford, Trans. N. Staff. F. Cl., **40**, 1906, (102-137).

Ward, J. and Stobbs, John T. A newly-discovered fish-bed in the Cheadle coalfield; with notes on the distribution of fossil fishes in that district. Stafford, Trans. N. Staff. F. Cl., **40**, 1906, (87-101, pl. i).

Warren, R. Remarkable change in habits of the herrings visiting Killala Bay, co. Mayo. Zoologist, London, **10**, 1906, (105-107).

Washburn, Margaret F[loy] and Bentley, I[saac] Madison. The establishment of an association involving color-discrimination in the creek chub, *Semotilus atromaculatus*. J. Comp. Neur. Psych., Granville, Ohio, **16**, 1906, (113-125).

Wéber, A. 1. Les premiers stades du développement de la vessie natatoire chez les Lophobranches. C.-R. ass. anat., 8^e session, (Bordeaux), **1906**, (90-93, av. fig.).

Weber, A. 2. Les phénomènes de torsion de l'ébauche cardiaque chez les Lophobranches. Paris, C.-R. soc. biol., **61**, 1906, (253-254); Réunion biologique de Nancy, **1906**, (53-54).

Weber, Max. De vischfauna van Nieuw-Guinea. [On the fresh-water fish-fauna of New-Guinea.] Amsterdam, Versl. Wis. Nat. Afd. K. Akad. Wet., **15**, [1906], (368-372) (Dutch); Amsterdam, Proc. Sci. K. Akad. Wet., **9**, 1907, (462-465) (English).

Wedd, C. B. Carboniferous rock, fossils and fossiliferous horizons. In: Pocock, T. I. The geology of the country around Macclesfield, Congleton, Crewe and Middlewich. Mem. Geol. Surv. U. K., London, **110**, 1906, (16-17, 47-48).

Weller, S. Kinderhook faunal studies. IV. The fauna of the Glen Park limestone. Pisces. St. Louis, Mo., Trans. Acad. Sci., **16**, 1906, (462).

Weltner, W[ilhelm] v. Wandolleck, B.

Wemple, E. M. New cestraciont teeth from the West American Triassic. Berkeley, Univ. Cal. Bull. Dept. Geol., **5**, 1906, (71-73, with pl.).

Werner, F. Beiträge zur Kenntniss der Fischfauna des Nils. Wien, Anz. Ak. Wiss., **1906**, (325-327).

Whitley, E. A note on the effect of acid, alkali, and certain indicators in arresting or otherwise influencing the development of the eggs of *Pleuronectes platessa* and *Echinus esculentus*. London, Proc. R. Soc., B **77**, 1906, (137-149).

Wichand, Bernh. Lebendgebärende Zahnkarpfen (*Poeciliidae viviparae*). Bl. Aquarienkunde, Magdeburg, **17**, 1906, (463-469, 475-476, 484-485, 495-496, 503-504, 515-516).

Wigg, T. J. Notes on the herring fishery of 1905. Norwich, Trans. Nat. Soc., **8**, 1906, (307-312).

Williamson, H. C. 1. On the specific characters of *Gadus luscus*, *Gadus minutus* und *Gadus esmarkii*. Glasgow, Rep. Fish. Board, **24**, 1906, (116, 158, pls. viii-x).

Williamson, H. C. 2. On two cases of hermaphroditism in the cod (*Gadus callarias*). Glasgow, Rep. Fish. Board, **24**, 1906, (290-292, pls. xv, xvi).

Wilson, James Meredith *vide* Eycleshymer, Albert C[hau]ncey.

Winwood, H. H. List of British Triassic fossils in the Moore collection, Bath Museum. London, Rep. Brit. Ass., **1905**, 1906, (161).

Woodland, W. 1. On the anatomy of *Centrophorus ealceus* (*crepidalbus*, Bocage and Capello), Günther. London, Proc. Zool. Soc., **1906**, 2, (865, pls. lvii-lxiii).

Woodland, W. 2. A suggestion concerning the origin and significance of the "renal-portal system," with an appendix relating to the production of sub-abdominal veins. London, Proc. Zool. Soc., **1906**, 2, (886-901, text fig.).

Woodward, A. S. 1. On a Pycnodont fish of the genus *Mesodon* from the Portland stone. Dorchester, Proc. Dorset. Nat. Hist. F. Cl., **27**, 1906, (183-187, pl. B).

Woodward, A. S. 2. On a new chimaeroid fin spine from the Portland stone. Dorchester, Proc. Dorset. Nat. Hist. F. Cl., **27**, 1906, (181-182, pl. A).

Woodward, A. S. 3. The study of fossil fishes. Presidential address. London, Proc. Geol. Ass., **19**, 1906, (266-282, fig. 1-15); [and abridged] Nature, London, **74**, 1906, (597-599).

Woodward, A. S. 4. On a new specimen of the chimaeroid fish *Myriacanthus paradoxus* from the Lower Lias near Lyme Regis (Dorset). London, Q. J. Geol. Soc., **62**, 1906, (1-4, pl. i).

Woodward, A. S. 5. On a tooth of *Ceratodus* and a Dinosaurian claw from the Lower Jurassic of Victoria, Australia. Ann. Mag. Nat. Hist., London, **18**, 1906, (1-3, pi. i).

Woodward, A. S. 6. On *Myriolepis hibernica*, a palaeoniscid fish from the Irish coal measures. Ann. Mag. Nat. Hist., London, **18**, 1906, (416-419, pl. x).

Woodward, A. S. 7. The relations of Palaeontology to Biology. Ann. Mag. Nat. Hist., London, **18**, 1906, (312-318).

Woodward, A. S. 8. On a carboniferous fish fauna from the Mansfield district, Victoria. Mem. Nat. Mus., Melbourne, **1**, 1906, (1-32, 11 pls.).

Woodward, H. B. and Usher, W. A. E. The geology of the country near Sidmouth and Lyme Regis. Mem. Geol. Surv. U.K., London, **326** and **340**, 1906, (1-90).

Zahálka, Č. Zone X der Kreideformation im Isergebiet. Prag, Sitzber. Böhm. Ges. Wiss., **1905**, No. 17, (1-184).

Zander, Enoch. 1. Das Kiemenfilter bei Tiefseefischen. Zs. wiss. Zool., Leipzig, **85**, 1906, (157-182, mit 1 Taf.).

Zander, E. 2. Das Kiemenfilter der Teleosteer. Eine morpho-physiologische Studie. Zs. wiss. Zool., Leipzig, **84**, 1906, (619-713, mit 2 Taf.).

[Zolotnitzkij, N. Th.] Золотницкіі, Н. О. Камбалы въ акваріумѣ. [Flundern im Aquarium.] Jestestv. i geogr., Moskva, **11**, 1906, 8, (66-80).

Zuckerlandl, E[mil]. Über accessorische Nebennieren bei *Torpedo marmorata*. Anat. Hefte, Wiesbaden, Abt. 1, **31**, 1906, (219-232, mit 2 [1] Taf.).

Notes on a fossil fish found at Southwater, August, 1906. Anonymous. Rep. Christ's Hospital Nat. Hist. Soc., **1906**, (29, 2 pls.).

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Société Impériale Russe d'acclimatation des plantes et des animaux. Императорское Русское Общество Акклиматизации животных и растений. Отчет по отделу Ихтиологии Им. Рус. Общ. Акклиматизации животных и растений за 1905 г. [Bericht über die Ichthyologische Abtheilung der Kais. Russ. Gesellschaft für Akklimatisation von Thieren u. Pflanzen f. d.

J. 1905]. Moskva, Dnevni. otd. icht. Imp. R. Obšč. acclimat., 2, 7, 1906, (1-16).

Statistical Information relating to the salmon fisheries; Fisheries Ireland Sci. Invest., 1901, VII [1906], (53-56).

Substance of reports received from clerks of conservators relative to salmon fisheries; Fisheries Ireland. Sci. Invest., 1904, VII, [1906], (58-79).

Künstliche Befruchtung von *Clupea kessleri*. (Russ.); **Arnold**.

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Signification choroiidienne du sac vasculaire; **Gentès**.

Certains stades du développement des hématies chez *Scyllium canicula*; **Rouvière et Ladreyt**.

Mouth and gills, *Bdellostoma stouti*; **Stockard, 2**.

Thyroid gland, *Bdellostoma stouti*; **Stockard, 1**.

Embryonaler Kiemenapparat von *Heptanchus*; **Braus, 2**.

Fentes branchiales de la Torpille; **Vialleton**.

Entstehung der Kiemendarmderivate, *Ceratodus*; **Greil**.

Premiers stades du développement de la vessie natatoire chez les Lophobranches; **Wéber, 1**.

Geschlechtsorgane, Pisces; **Felix**.

(Excretory organs, *Bdellostoma stouti*; **Price**.)

Système urogénital des Elasmobranches; **Borcea, 2**.

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Experimental.

Development of *Fundulus heteroclitus* in solutions of lithium chloride, appendix on its development in fresh water; **Stockard, 3**.

Ist die Bildung des Skeletes von den Muskelanlagen abhängig? Brustflosse von Haiembryonen; **Braus, 1**.

Influence des rayons du radium sur le développement de la Roussette (*Scyllium canicula*); **Tur**.

Widerstandsfähigkeit der Forelleneier gegen mechanische Insulte; **Steuert**.

Post-embryological.

Life history, edible fish, plaice and cod especially; **Johnstone, 2**.

Larval and post larval stages, *Pleuronectes zeugopterus*; **Petersen, 2**.

Duration of embryonic development, larval and post larval stages, herring; **Fulton, 6**.

Rate of growth, teleostei, 11 spp. **Fulton, 4**.

Smolt to grilse stage of salmon, time occupied by; **Calderwood**.

Fish-eggs and young fish-stages in the waters round Denmark; **Otterström**.

Codfish in the eastern fjords (Norw.); **Dal and Dannevig**.

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Pelagic post-larval stages of lings; **Schmidt, 2**.

Pelagic post-larval stages of the Atlantic species of *Gadus*; **Schmidt, 1**.

Size at maturity, maximum size *Clupea harengus*; **Fulton, 6**.

Altersbestimmung nach den Otolithen bei Scholle und Kabeljau; **Maier**.

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Habits, change in, *Clupea harengus*; **Warren**.

Oekologie der elektrischen Fische; **Kammerer und Köhler**.

Habits, breathing, feeding, swimming *Ceratodus*; **Dean, 1.**

Flüchtige Bemerkungen über einige Fische des Azovschen Meeres; **Alphéraki.** (Russ.)

Lebensweise des Aral-Störs im Syr-Darja. (Russ.); **Grünberg.**

(Nos poissons: *Acipenser schypa*). (Polish); **Rozwadowski, 1.**

(Nos poissons: le sterlet). (Polish); **Rozwadowski, 2.**

Food.

Food of plaice, dabs and other fishes; **Johnstone, 2.**

How rooting aquatic plants influence the nutrition of the food fishes of American lakes; **Pond.**

Food of the trout of the Kern river region; **Juday.**

Food of some fishes. (Dutch); **Redeke, 1.**

Fressgier der Forelle. (Ungarisch); **Kohaut.**

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Parental care among fresh-water fishes; **Gill, 2.**

Brutpflege der Lophobranchier; **Petersen, M.**

Protection of offspring in mouth and pharynx, eichlid fishes; **Boulenger, 12.**

Ineubation buccale; **Fuhrmann.**

Migration.

Ascent of salmon in Finnish and N. Swedish rivers, a statistical contribution to the biology of salmon; **Nordquist.**

Wanderung, junger Lachs (Norw.); **Dahl.**

Migration le long de la côte occidentale de Kamtschatka (Russ.); **Tuchoff.**

Wanderung, Verbreitung im Kattegat, Wachstum, *Pleuronectes platessa*; **Johansen.**

Migration, *Anguilla vulgaris*; **Schmidt, 3.**

Laichen und Wandern der Ostseefische; **Strodtmann.**

Wanderung und Laichen von *Clupea kessleri* bis oberhalb von Samara im Jahre 1905. (Russ.); **Baženov, 2.**

Marking experiments, salmon, Ireland; **Hillas.**

Marked fish, results of experiments; **Johnstone, 2.**

Deutsche Versuche mit gezeichneten Schollen. 1. Bericht; **Bolau.**

Holländische Versuche mit gezeichneten Schollen 1903-1905; **Redeke, 2.**

Banc d'anchois (*Engraulis*), près de l'île Cabrera, Baléares; **Racovitza.**

Hibernation.

Winterschlaf des Karpfens und anderer Fische. (Russ.); **Borodin, 2.**

Habitat. Deep sea fish.

Deep sea fish, luminous organs, reproduction; **Gilchrist, 2.**

Tiefsee-Fische; **Brauer.**

Instinct and Psychology.

Psychologie de quelques poissons littoraux; **Goldsmith.**

Breeding, Oviposition.

Hochzeitskleid, Fortpflanzung &c., von *Mesogonistius chactodon*; **Emeljanenko.**

Fortpflanzung, *Callichthys punctatus*; **Jürgens.**

Spawning season, Rainbow trout; **Arens.**

Spawning and guardianship of eggs, *Cyclopterus lumpus*; **Fulton, 3.**

Spawning period, *Clupea harengus*; **Fulton, 6.**

Spawning and fecundity, *Pleuronectes platessa*; **Fulton, 5.**

Fortpflanzung von Plattfischen an den Küsten der Ostsee; **Petersen, 1.**

(Breeding *Polyacanthus opercularis*. L.; **Waite, E. R.**)

Laichen &c im Aquarium, *Nuria danrica*; **Stoll.**

(Intoxication par un barbeau au moment du frai; **Pellegrin** et **Glaize**.)

(Action soi-disant venimeuse de la Rascasse; **Briot**.)

Laichen der Fische im Bassin der Wolga oberhalb von Saratow. (Russ.); **Berg**, 11.

Laichen im Finnischen Meerbusen, Flunder, Steinbutt und Kabeljau; **Sandman**.

Laichen, *Clupea*; **Knipowitsch**, 2.

Laichen der Schwarznase, Ellritze und Schmerle; **Thumm**.

Époques de ponte des poissons en rivière et en eau dormante; **Huet**.

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Voice of fishes; **Tower**.

Symbiosis.

Commensalisme de jeunes *Caranx* et de *Rhizostomidae*; **Pellegrin**, 12.

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Unusual size, *Alopias vulpes*; **Scharff**, 2.

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Stör mit drei Rogensäcken (Russ.); **Gr[imm]**, 1.

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Anomalies de la nageoire anale, *Sebastes dactyloptera*; **Jaquet**.

Accessory fins in *Raia batis*; **Rennie**.

Accessorische Flosse, *Acanthias* sp.; **Przibram**.

Paio di pinne pettorali soprannumerarie asimmetriche, *Salmo irideus*; **Maz-zarelli**, 2.

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Oviducte anormal, *Scyllium*, **Borcea**, 4.

Sandats à tête de carlin (Polish); **Stach**.

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A. Actual.

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Iceland. Ichthyological researches, 1905; **Sæmundsson**.

Nordsee, südliche, Eier und Jugendformen von Fischen; **Boeke**.

Trondjemfjord; **Swenander**.

Finnischer Meerbusen, Verbreitung von *Pleuronectes platessa*, *Rhombus maximus* und *Gadus callarias*; **Sandman**.

Cumberland, Derwentwater and Bassenthwaite Lakes, *Coregonus gracilior* sp. n.; **Regan**, 8.

English Channel, *Pteridium* sp. n.; **Byrne**.

Essex Coast, *Pagellus centrodontus*; **Murie**, 2.

Solway, teleostei 2 spp., new to; **Service**, 1, 2.

Atlantic slope, Irish, fishes of; **Holt** and **Byrne**.

Irish Coast, *Centriscus scolopax*; **Patterson**.

Irish Sea, *Raia microcellata* and *fullonica* and *Deutea vulgaris*, first record; **Johnstone**, 1.

Irish Sea, distribution of fish eggs month by month in divisions of; **Scott**, 2.

Tralee Bay, *Orthogoriscus truncatus*; **Scharff**, 1.

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France, Faune du Nord; **Godon**.

Roscoff, Elasmobranch fauna; **Borcea**, 2.

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L'océan Atlantique, *Centriscus scolopax*; **Künstler** et **Chaine**, 1.

Pas-de-Calais, *Aphya minuta*; **Cligny**.

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Hanover, list, 35 spp.; **Löns**.

Portugal, *Centrophorus* sp. n.; **Regan**, 13.

Lake, unnamed, in province of Gerona, teleostei 12 spp.; **de Camps y de Olzinellas**.

Catania, *Orthogoriscus truncatus*; **Mauro**.

Aemilia Fischfauna; **Schubert**, 1.

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Bassin der Wolga oberhalb von Saratow, Fischerei (Russ.), **Berg**, 11.

Azovsches Meer, Bemerkungen über einige Fische (Russ.); **Alphéraki**.

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Russisches Reich, Marsipobranchii, Uebersicht; **Berg**, 5.

Kaspisches Meer, Hering, neue Art, (Russ.); **Borodin**, 1.

Goktscha-See. (Russ.); **Grimm**, 2.

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Semiretschje-Gebiet, Fischerei in dessen Gewässern. (Russ.); **Berg**, 12.

Amur-Becken, *Salmonidae* sp. n.; **Berg**, 10.

Baikalsee, Cataphraeti; **Berg**, 6.

Lac Kossogol (bassin du Baikal), poissons. (Russ.); **Berg**, 9.

Kamtschatka, côte occidentale. (Russ); **Tuchoff**.

Murmansche Küste; **Derjugin**.

Port Arthur, Manchuria, teleostei and *Raia* sp., 31 spp. 5 spp. n.; **Jordan** and **Starks**, 2.

Korea, *Leucogobio* sp. n.; **Berg**, 2.

Japan, teleostei and selachii, marine and freshwater, spp. n.; **Smith** and **Pope**.

Japan, herring-like fishes 20 sp., marine; **Jordan** and **Herre**.

Japan, flounders and soles reviewed and 4 spp. n.; **Jordan** and **Starks**, 1.

Japan, *Pociliidae* sp. n.; **Jordan** and **Snyder**, 1.

Japan, Elasmobranchs 2 spp. n.; **Regan**, 10.

Japan, shores, Polynemid, sp. n.; **Jordan** and **McGregor**.

Japan, offshore islands Tanega and Yaku, teleostei from tide pools spp. n.; **Jordan** and **Starks**, 3.

Japan, giant bass ; **Jordan** and **Snyder**, 2.

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Sagami Bucht, Tiefseefische ; **Doflein**.

Calcutta, Helmand basin *Cyprinidae* spp. n. ; **Regan**, 5.

Lower Bengal, *Gobius* sp. n. ; **Annan-dale**.

Siam, *Gyrinocheilus* sp. n. ; **Berg**, 7.

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Africa, freshwater fishes ; **Boulenger**, 4.

Africa, *Chloroscombrus* sp. n. ; **Fowler**, 1.

Madeira, *Centroseymnus* sp. n. ; **Regan**, 13.

Afrique, côte occidentale ; **Pellegrin**, 7, 23.

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Angola, Kwango River, *Varicorhinus* n. sp., *Atopochilus* n. sp. ; **Boulenger**, 1.

Congo. Characinidés nouveaux ; **Pellegrin**, 3.

Niger, *Distichodus* sp. n. ; **Pellegrin**, 8.

L'Ogôoué, 48 spp. teleostei 3 spp. n. ; **Pellegrin**, 4.

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Uganda *Clarias* n. sp. ; **Boulenger**, 3.

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Lake Tanganyika, 84 spp., teleostei 27 spp. n. ; **Boulenger**, 12.

Baie de Tadjourah *Salarias* sp. n. ; **Pellegrin**, 2.

Soudan, teleostei, 2 spp. n. ; **Pellegrin**, 5.

South Cameroon, *Marcusenius* sp. n. ; **Boulenger**, 8.

White Nile and Bahr-el-Gebel, *Anabas* two distinct species ; **Boulenger**, 11.

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Gallaland list, *Barbus* sp. n. ; **Boulenger**, 2.

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Natal coast, teleostei and elasmobranchs 7 spp. n. ; **Regan**, 4.

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California, Monterey Bay, *Sebastodes* sp. n. ; **Evermann** and **Goldsborough**.

Montana, list of fishes ; **Henshall**.

Marcus I., teleostei 8 spp. n. ; **Bryan** and **Herre**.

Hillsdale county, Michigan ; **Hankinson**.

Pennsylvania, first records of various teleostomi ; **Fowler**, 8.

Lower Susquehanna R., *Pimephalus notatus*, recorded from ; **Fowler**, 7.

Florida Keys, Teleostei spp. n. ; **Fowler**, 5.

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Mexico and Central America, freshwater *Acanthopterygii* ; **Regan**, 13.

Guatemala. 3 spp. n. ; **Meek**.

Bermuda Islands. Catalogue. Teleostei spp. n. ; **Bean**, 2.

Bermuda Islands, Teleostomi spp. n. ; **Bean**, 1.

Bermuda Islands, *Hippocampus* sp. n. ; **Townsend** and **Barbour**.

Western Cuba, freshwater and marine Teleostei ; **McIndoo**.

Santo Domingo, Teleostei 2 n. spp. ; **Evermann** and **Clark**.

Amérique du Sud, hauts plateaux, faune ichtyologique ; **Pellegrin**, 11.

Trinidad, Teleostei, freshwater, list and 3 spp. n. ; **Regan**, 2.

South and middle America, freshwater fishes ; **Eigenmann**.

Guiana, British, *Ancistrus* sp. n. ; **Regan**, 7.

Ecuador and Peru, collection of fishes ; **Starks**, 1.

Peru, *Astyanax* sp. n. ; **Fowler**, 6.

Titicaca and Poopo, *Siluridae* and *Cyprinodontae* (mention only) ; **Pellegrin**, 11.

Brazil, Rio Grande do Sul, *Stromateus* sp. n. ; **Fowler**, 1.

Paraguay R. *Heterogramma* sp. n. ; **Regan**, 6.

Argentina, 52 sp. marine and freshwater fishes spp. nn. ; **Evermann** and **Kendall**.

Argentina, Cyprinodont sp. n. ; **Regan**, 12.

Argentina, *Loricaria* sp. n. ; **Regan**, 7.

Chile, poissons de la côte ; **Pellegrin**, 20.

Magellan *Centroscymnus* sp. n. ; **Regan**, 13.

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New Guinea fresh-water fish-fauna ; **Weber**, M.

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Australia, Sharks. Notes on ; **Waite**, 2.

Australia S., and Tasmania *Squatina* sp. n. ; **Regan**, 13.

Australia, W., King River, freshwater fishes g. et spp. n. ; **Regan**, 14.

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Victoria, marine teleostei, 4 spp. additions to fauna ; **Kershaw**, 1.

Wilson's Promontory, notes ; **Kershaw** 2.

(West Australia n. spp. (1905) ; **Waite**, 4.)

Otago Harbour, list of fishes taken ; **Thomson**.

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Geological succession of fishes, summary ; **Woodward**, 3.

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Tertiaire, Patagonie ; **Ameghino**.

Terrains néogènes France, du Comtat (? de Vaucluse). Elasmobranches et Téléostéens (nn. spp.) ; **Joleaud**, 1, 2.

(. . . *Cottus* fossiles, en particulier *Cottus cervicornis* Storme, du Rupélien de la Belgique ; **Leriche**, M.)

Neogen, Oesterreich-Ungarn, Fischotolithen ; **Schubert**, 2, 3.

Eocene, Egypt, Elasmobranchii 5 spp. Teleostomi 2 spp ; **Andrews**.

Éocène moyen d'Égypte, Elasmobranches, téléostomes ; **Priem**.

Eocene, Plana de Vich, *Carcharodon* sp.; **Almera**.

Éocène, Loire inférieure, 8 spp.; **Leriche**, 2.

Éocène, Belgique, 16 spp. n.; **Leriche**, 3.

? Eocene, Patagonia fish fauna; **Ameghino**.

Oligocène, Catalogne, *Prolebias* sp.; **Vidal et Depéret**.

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Lower Lias, Lyme Regis, *Myriacanthus paradoxus*; **Woodward**, 4.

Lower Lias, Lyme Regis, fish fossils; **Woodward and Usher**.

Portland Stone, *Mesodon*; **Woodward**, 1. Chimaeroid fish spine; **Woodward**, 2.

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Trias, West American, new cestracodont teeth; **Wemple**.

Lower Jurassic, Victoria, Australia, *Ceratodus* Tooth; **Woodward**, 5.

Crétacé supérieur, Patagonie; **Ameghino**.

Weald clay, Southwater *Leptolepis* sp. n. Anon.

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Carboniferous, Macclesfield, Congleton, Crewe and Middlewich; **Wedd**.

North Staffordshire Cheadle Coalfield fishes; **Ward**, also **Ward** and **Stobbs**.

Lower Carboniferous E. Fifeshire; **Traquair**.

Coalmeasures Ireland, *Myriolepis hibernica*; **Woodward**, 6.

Ordovician, Wyoming, fish remains; **Darton**.

Carboniferous, N. America, coeliodonts. 7 spp. n.; **Branson**, 1.

Carboniferous, Victoria. 5 spp. n.; **Woodward**, 8.

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Silurian, Yeringian series, Wombat creek. *Cephalaspis* sp. n. and associated fossils; **Chapman**.

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GENERAL WORKS.

Notes on a collection of fishes from the island of Mindanao, Philippine archipelago, with descriptions of new genera and species. **SMITH and SEALE**. Washington, D.C., Proc. Biol. Soc., **19**, (73–82).

Fishes collected in the Philippine islands by Maj. Edgar A. Mearns, surgeon, U. S. army. **EVERMANN and SEALE**. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **31**, (505–512, with text fig.).

The fishes of Samoa. Description of the species found in the archipelago, with a provisional check-list of the fishes of Oceania. **JORDAN and SEALE**. Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173–455, with col. pl., text fig.).

Fishes of the south Pacific. **SEALE**. Honolulu, H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1–89, with pl.).

Die Tiefsee-Fische. **BRAUER**. I. Syst. Tl. (Wissensch. Ergebnisse d. D. Tiefsee-Expedition, Bd 15, Lfg 1.)

Reptilia, Amphibia, and Pisces. **BARBOUR and COLE**. Cambridge, Mass., Bull. Mus. Comp. Zool., Harvard Coll., **50**, (146–159, with pl.).

On the fresh-water fish-fauna of New-Guinea. **WEBER**. Amsterdam, Proc. Sci. K. Akad. Wet., **9**, (462–465) (English); Amsterdam, Versl. Wis. Nat. Afd. K. Akad. Wet., **15**, (368–372) (Dutch).

Pisces. Vertebrata from the Savanna of Panama. **GARMAN**. Papers from the John E. Thayer Expedition of 1904, No. **3** in Cambridge, Mass., Bull. Mus. Comp. Zool., Harvard Coll., **46**, (229–230).

The fresh-water fishes of South and Middle America. **EIGENMANN**. Pop. Sci. Mon., New York, N.Y., **68**, (515–530, with illustr.).

† Fish remains from the Salem limestone of Indiana. BRANSON. *In*: Cummings, E. R. and others. Fauna of the Salem limestone. Indiana, Rep. Dept. Geol. Nat. Res., Indianapolis, **30**, (1376-1394, with pl.).

Structure de la région infundibulaire des poissons. GEMELLI. *J. anat. physiol.*, Paris, **42**, (77-86).

TELEOSTEI.

For descriptions of 34 spp. n. of teleostei founded on otolith *v. p.* 30, ANATOMY, Schubert.

Morphologie des Vorder- und Zwischenhirns der Teleostier. (Ungarisch) KELLER. *Állatt. Közlem.*, Budapest, **5**, (18-86, Taf. iii. u. 12 Textfig.).

Eier und Jugendformen von Fischen der südlichen Nordsee. BOEKE. *Helder, Verh. Onderz. Zee*, **1**, 4, (1-36).

Fresh-water Acanthopterygii, Mexico and Central America. REGAN. *Biol. Centr.-Amer.*, pl. exciii, (1-30).

New, rare or little known scombroids, No. 3. FOWLER. Philadelphia, Pa., *Proc. Acad. Nat. Sci.*, **58**, (114-122, with text fig.).

Evolution paléozoologique des Téléostéens; JOLEAUD, Avignon, *Mém. Ac.*, **6**, (339).

PLECTOGNATHI.

Ahalistes **nom. n.** for *Leiurius* Swainson, *stellaris* Block and Snieder, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (364).

Balistes capriscus. Somerset coast, BLATHWAYT, *Zoologist*, **10**, (470).

† *Diodon pulehellus* **sp. n.** Éocène Belgique, LERICHE, *Mém. Mus. Belgique*, **3**, (212).

Monacanthus fatensis **sp. n.**, SEALE, Honolulu, H.I. Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1-89).—*M. tuckeri* **sp. n.** Bermuda, BEAN, Washington, D.C., *Proc. Biol. Soc.*, **19**, (29-33).

Orthogoriscus truncatus in Tralee Bay, SCHARFF, *Irish Nat.*, Dublin, **15**, (275).—*O. truncatus* catturato presso l'Isola dei Ciclopi, MAURO, Catania, *Boll. Acc. Gioenia*, N. Ser., fasc. **85**, (16-19, con 1 fig.).

Ostracion dexteri, *chryseres*, *aureicauda*, **spp. n.** Hawaii, SEALE, Honolulu, H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1-89).

(*Chortodermis maccullochi* **sp. n.** Houtmans Abrolhos, W.A., WAITE, Sydney, N.S.W., *Rec. Austr. Mus.*, **6**, 1905, (81, fig.).)

(*Pseudacanthus galii* **sp. n.** Sharks Bay, W.A., WAITE, Sydney, N.S.W., *Rec. Austr. Mus.*, **6**, 1905, (79, fig.).)

† *Triodon antiquus* **sp. n.** Éocène Belgique, LERICHE, *Mém. Mus. Belgique*, **3**, (81, 170).

PEDICULATI.

Antennarius verrucosus **sp. n.** Bermuda, BEAN, Washington, D.C., *Proc. Biol. Soc.*, **19**, (29-33).—*A. lutescens* **sp. n.** Hawaii, SEALE, Honolulu, H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1-89).

Dibranchius obscurus **sp. n.** Indie. BRAUER, *Wiss. Ergebn. D. Tiefsee-Exp.*, **15**, (330).

Lophius quinquerradiatus **sp. n.** Indie. BRAUER, *T.c.* (313).

Ogcocephalus radiatus described and figured, FOWLER, Philadelphia, Pa., *Proc. Acad. Nat. Sci.*, **58**, (108, pl. iii).

OPISTHOMI.

MASTACEMBELIDAE.

Mastacembelus cunningtoni **sp. n.** L. Tanganyika, BOULENGER, London, *Trans. Zool. Soc.*, **17**, (575, pl. xli).

ACANTHOPTERYGII.

TRACHYPTERIDAE.

Regalecus, skull of young specimen described. BENJAM and DUNBAR, London, *Proc. Zool. Soc.*, **1906**, 2, (544).

OPHIIDIIDAE.

Geuhypterus capensis Smith, redescribed, REGAN, *Ann. Natal Govt. Mus.*, **1**, pt. 1, (6).

Neobythites brucei **sp. n.** abyssal, Antarctic, DOLLO, Edinburgh, *Proc. R. Soc.*, **26**, (172).

Pteridium allenii **sp. n.** Mouth of English Channel, 150 f., BYRNE, *Ann. Mag. Nat. Hist.*, **18**, (448-150, text fig.).

(*Dipulus* **gen. n.** for *D. eurus* **sp. n.**, WAITE, Sydney, N.S.W., *Rec. Austr. Mus.*, **6**, 1905, (77, fig.).)

ZOARCIDAE.

Barathronus diaphanus (305), *affinis* (306), **spp. n.**, Indie., BRAUER, Wiss. Ergebn. D. Tiefsee-Exp., **15**.

Bassobythites **gen. n.**, *brunswigi* **sp. n.**, Indie., BRAUER, T.e. (307).

Lycodes attenuatus, *jugoricens*, *maris-albi*, **spp. n.**; *vahli septentrionalis*, *rossi subarctica*, *rossi megalocéphala*, *rossi intermedia* **nn. var.**, KNIPOWITSCH, St. Petersburg, Mém. Ac. Sci., **19**, (1-130).

Lycenchelys sarsi Collett **var. n.** *septentrionalis* aus dem europ. Eismeer, KNIPOWITSCH, St. Peterburg, Mém. Ac. Sci., **19**, (1-130).

BLENNIIDAE.

Alticus evermanni, *thalassinus*, *musilae* **spp. n.**, Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (122).

Blennius ellipes **sp. n.**, Japan, JORDAN and STARKS, Washington, D.C., U. S. Nation. Mus. Proc., **30**, (702).—*B. tonganus* **nom. n.**, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-455).—*B. vulgaris*, REINHOLD, Bl. Aquarienkunde, Magdeburg, **17**, (203-205, 252).—*B. tasmanicus* redescribed and figured, WAITE, Sydney, N.S.W., Rec. Austr. Mus., **6**, (205).

Congrammus **gen. n.**, *moorei* **sp. n.**, Florida Keys, FOWLER, Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, (105).

Cristiceps flammeus **sp. n.**, Japan, JORDAN and STARKS, Washington, D.C., U. S. Nation. Mus. Proc., **30**, (701).

(*Enneapterygius tusitalae*, *pardocheir*, *tutuila*, *cerasinus*, *hudsoni* **spp. n.**, JORDAN and SEALE, Washington, D.C., Lab., Bull. Bur. Fish., **25**, (173-455).)

Entomacrodus sealei **sp. n.**, BRYAN and HERRE in BRYAN, Monogr. Marcus I, 1903, (138).

Hypleurochilus vaillanti **sp. n.**, Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (420).

Labrisomus lentiginosus **sp. n.**, Bermuda, BEAN, Washington, D.C., Proc. Biol. Soc., **19**, (29-33).

Ophioclinus gracilis, Sydney, *O. gabrieli*, Western Port. Vic., **spp. nn.**, WAITE, Sydney, N.S.W., Rec. Austr. Mus., **6**, (207-208, figg.).

Petroscirtes loxozonus **sp. n.** Japan, JORDAN and STARKS, Washington, D.C., U. S. Nation. Mus. Proc., **30**, (705).—*P. azureus*, *aestus* **spp. n.**, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-455).

Salarias andersoni, *tanegasimae*, **spp. n.** Japan, JORDAN and STARKS, Washington, D.C., U. S. Nation. Mus. Proc., **30**, (703).—*S. azureus*, *tubuensis*, *cassius* **spp. n.**, SEALE, Honolulu, H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1-89).—*S. sindonis*, *atkinsoni*, *garmani*, *bryani* **spp. n.**, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-455).—*S. zamboangae* **sp. n.** Mindanao, EVERMANN and SEALE, Washington, D.C., U. S. Nation. Mus. Proc., **31**, (512).—*S. gravieri* **sp. n.**, PELLEGRIN, Bul. Muséum, **1906**, (93).—*S. gilberti*, *paulus*, *mareusi*, **spp. n.**, BRYAN and HERRE in BRYAN, Monogr. Marcus I, 1903, (135).

Sauragea **nom. n.** for *Lepidoblennius* Sauvage, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (420).

GOBIESOCIDAE.

Caularchus mæandricus, reins, GÜTEL, Paris, C.-R. ass. franç. avanc. sci., **34**, (597-601); Arch. zool., sér. 4, **4**, 1905, (Notes et Rev., i-vi).

Diplocrepis parvipinnis **sp. n.** New S. Wales coast, *D. cardinalis* described and figured, WAITE, Sydney, N.S.W., Rec. Austr. Mus., **6**, (202).

Lepadogaster, Drüsenzellen und Cuticulaergebilde der Epidermis, STUĐNIČKA, Anat. Anz., **29**, (132-144, 208).

(*Lepadogaster bimaculatus* Pennant et *microcephalus* Brook, diagnoses, GÜTEL, C.-R. ass. franç. avanc. sci., **33**, Grenoble, 1904, 2^e Partie, (774-779).)

CALLIONYMIDAE.

Callionymus kitaharae **sp. n.** Japan, JORDAN and SEALE, Washington, U. S. Nation. Mus., Proc., **30**, (148).

TRACHINIDAE, NOTOTHEIIDAE.

Notottheniidae, propagation, morphology of digestive system, LÖNNBERG, (52-58).

Abyssal *Nototheniidae*, DOLLO, Edinburgh, Proc. R. Soc., **26**, (65-75).

[*Artedidraco* **gen. n.**, *mirus*, S. Georgia (39) and *skottsbergi*, Snow Hill (48) **spp. n.**, LÖNNBERG, Wissensch. Ergebn. Schwed. Südpol.-Exp., **5**.]

Astroscopus; electric organ, DAHLGREN and SILVESTER, Anat. Anz., **29**, (387-403).

Bathydraco scotiae **sp. n.**, DOLLO, Edinburgh, Proc. R. Soc., **26**, (65-75).

Chaenichthys chareoti **sp. n.**, antarctique, VAILLANT, Bul. Muséum, Paris, **1906**, (246).—[*C. rhinoceratus* **subsp. n.** *hamatus*, Snow Hill, LÖNNBERG, Wissensch. Ergebn. Schwed. Südpol.-Exp., **5**, 1905, (47).]

[*Champscephalus gunnari* **sp. n.** S. Georgia, LÖNNBERG, T.c. (37).]

[*Notothenia brevicauda* Ushuia (6), *karlandrae* (14), *breripes* (15), Falklands, *dubia* (28), *larseni* (31), and *gibberifrons* (33), S. Georgia, **spp. n.**, LÖNNBERG, T.c.]

[*Trematomus hansonii* Blgr. **subsp. n.** *georgianus*, *bernacchii* Blgr. **subsp. n.** *vicarius*, LÖNNBERG, T.c. (25).]

CYCLOPTERIDAE.

[*Careproctus georgianus* **sp. n.** S. Georgia, LÖNNBERG, Wissensch. Ergebn. Schwed. Südpol.-Exp., **5**, 1905, (24).]

Cyclopterus lumpus spawning, guardianship of eggs, hatching, FULTON, Glasgow, Rep. Fish. Board, **24**, (169).

[*Liparis antarctica* Putnam **subsp. n.** (?) *falklandica*, Falklands, LÖNNBERG, Wissensch. Ergeb. Schwed. Südpol.-Exp., **5**, Fishes, 1905, (17).]

TRIGLIDAE.

Peristedium indicum **sp. n.** India, BRAUER, Wiss. Ergebn. D. Tiefsee-Exp., **15**, (299).

Trigla gurnardus, rate of growth, FULTON, Glasgow, Rep. Fish. Board, **24**, (229).

COTTIDAE.

Uebersicht der Cataphracti (Fam. Cottidae, Cottomephoridae und Comephoridae) des Baikalsees. BERG, Zool. Anz., (906-911).

Cataphracti, Baikalsee, Osteologie. BERG, (Russ.) St Peterburg, Trav. Soc.

Nat., **37**, 1, 1906, (30-32); deutsches Rés., (40-41).

Abyssocottus **gen. n.**, *korotneffi*, *gibbosus*, *boulengeri* **spp. n.** Baikalsee, BERG, Zool. Anz., **30**, (908).

Aspracottus **gen. n.**, *heizensheimi* **sp. n.**, Baikalsee, BERG, T.c. (907).

Cottomephorus et ses dérivés, PELLEGRIN, Bul. Muséum, Paris, **1906**, (89-93).

(†*Cottus* fossiles, et en particulier sur *Cottus cerricornis* Storms, du Rupélien de la Belgique. Paris, C.-R. ass. franc. avanc. sci., **33**, (Grenoble, 1904, 2^e Partie), 1905, (677-679).)

Insidiator hosokawae **sp. n.** Urado, SMITH and POPE, Washington, U. S. Nation. Mus. Proc., **31**, (486).

Limnocottus **gen. n.**, type *Cottus godlewskii* Dyb Baikalsee, BERG, Zool. Anz., **30**, (909).

Scorpaenichthys marmoratus, distribution of the lymphatics in the head, and in the dorsal, pectoral, and ventral fins. ALLEN, Washington, D.C., Proc. Acad. Sci., **8**, (41-90).

HETEROLEPIDOTIDAE.

Erilepis zonifer, Japan, JORDAN and SNYDER, Washington, U. S. Nation. Mus., Proc., **30**, (843).

PLATYCEPHALIDAE.

(*Platycephalus grureli* **sp. n.**, PELLEGRIN, Bordeaux, Actes soc. limn., **60**, (17-57).) Paris, Bul. soc. zool **30**, (138).

ECHENEIDIDAE.

Leptecheneis flaviventris **sp. n.**, SEALE, Honolulu, H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1-89).

SCORPAENIDAE.

Dendrochirus sausaulele **sp. n.**, Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish, **25**, (378).

Lyodermus **gen. n.**, *satsumae* **sp. n.**, Kagoshima, SMITH and POPE, Washington, U. S. Nation. Mus. Proc., **31**, (483).

Scorpaena natalensis **sp. n.**, REGAN, Ann. Natal Govt. Mus., **1**, pt. 1, (5).

Scorpaenopsis quiescens **sp. n.**, SEALE, Honolulu, H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1-89).

Sebastapistes lactale **sp. n.**, Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (376).

Sebastes marinus, Entwicklung, NORDGARD, Bergen, Naturen, **30**, (241-242).

Sebastes alexandri **sp. n.** Monterey Bay, EVERMANN and GOLDSBOROUGH, Washington, U. S. Nat. Mus. Proc., **31**, (651).

GOBIIDAE.

Aphyia minuta, Pas-de-Calais, CLIGNY, Paris, C.-R. ass. franç. avanc. sci., **34**, (585-586).

Benthophilus macrocephalus, var. *c* Kessler = *Doliichthys stellatus* Sauvage, BERG, Ann. Mag. Nat. Hist., **18**, (393).

Caragobius **gen. n.**, *typhlops* **sp. n.**, SMITH and SEALE, Washington, D.C., Proc. Biol. Soc., **19**, ().

Chaenogobius erythrops **sp. n.**, Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (404).

Doliichthys stellatus vide *Benthophilus*.

Dormitor latifrons figured, REGAN, Biol. Centr. Amer., (9, pl. i).

Drombus tutuilae **sp. n.**, Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (399).

Eviota zonura, *prasites*, *afelei*, *sma-ragda*, *distigma*, *sebrei*, *hervei*, *pruinosa*, **sp. n.**, Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (386).

Exyrias **gen. n.** type *Gobius puntan-goides* Blkr., Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (405).

Glossogobius vaisiganis **sp. n.**, Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (403).

Gobius calderae **sp. n.**, Caldera Bay, Philippines, EVERMANN and SEALE, Washington, U. S. Nation. Mus. Proc., **31**, (511).—*G. alcockii* **sp. n.**, India, ANNANDALE, Calcutta, J. As. Soc. Beng., **2**, (201).—*G. mucosus* redescribed,

WAITE, Sydney, N.S.W. Rec. Austr. Mus. **6**, (200).

Heteroelectris clara, *phaenna* **spp. n.** Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (392).

Illana **gen. n.**, *cacabet* **sp. n.**, SMITH and SEALE, Washington, D.C., Proc. Biol. Soc., **19**, (73).

Kellogella **gen. n.**, *cardinalis* **sp. n.**, Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (409).

Mapo crassiceps **sp. n.**, Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (402).—*M. mearnsi* **sp. n.**, Mindanao, EVERMANN and SEALE, Washington, U. S. Nation. Mus. Proc., **31**, (510).

Mars **gen. n.**, *strigiliceps* **sp. n.**, Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (408).

Philypnus maculatus figured, REGAN, Biol. Centr. Amer., (5, pl. i.)

Pselaphias **gen. n.** type *Gobius ophthalmoneus* Bleeker, Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (406).

Ranulina **gen. n.** *fimbriidens* **sp. n.**, Port Arthur, JORDAN and STARKS, Washington, D.C., U. S. Nation. Mus. Proc., **31**, (523).

Rhinogobius corallinus, *musearum* **spp. n.**, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-455).—*R. mowbrayi* **sp. n.**, Bermudas, BEAN, Chicago, Ill. Pub. Field Columb. Mus. Zool. Ser., **7**, (81).—*R. nagoyae* **sp. n.** Japan, JORDAN and SEALE, Washington, D.C., U. S. Nation. Mus. Proc., **30**, (147).

Sicydium buseki **sp. n.** San Domingo, EVERMANN and CLARK, Washington, D.C., U. S. Nation. Mus. Proc., **30**, (854).—*S. multipunctatum* **nom. n.** for *Cotylopus punctatus*, REGAN, Biol. Centr. Amer. Pisces (11).

Sicyopterus tauae **sp. n.** Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (410).

Synehiropus lili **sp. n.** JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-455).

Taenioides abbotti **sp. n.** Port Arthur, JORDAN and STARKS, Washington, D.C., U. S. Nation. Mus. Proc., **31**, (524).

Trimma **gen. n.**, *caesiura* **sp. n.**, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (391).

Vailima **gen. n.**, *stevensoni* **sp. n.**, Samoa, JORDAN and SEALE, T.C. (398).

Vaimosa **gen. n.**, *fontinalis* **sp. n.**, JORDAN and SEALE, T.C. (395).

Valenciennaea violifera **sp. n.**, JORDAN and SEALE, T.C. (173-455).

Vitreola **gen. n.**, *sagitta* **sp. n.**, JORDAN and SEALE, T.C. (393).

Waitea **gen. n.** type *Gobius mystacina*, JORDAN and SEALE, T.C. (407).

PLEURONECTIDAE.

Amate **gen. n.** type *Achirus japonicus* Schlegel, JORDAN and STARKS, Washington, D.C., U. S. Nation. Mus. Proc., **31**, (228).

Areliscus rhomaleus **sp. n.** Port Arthur, JORDAN and STARKS, T.C. (526).

Drepanopsetta platessoides, rate of growth, FULTON, Glasgow, Rep. Fish. Board, **24**, (196).

Lambdopsetta **gen. n.**, *kitaharae* **sp. n.** Kagoshima, SMITH and POPE, Washington, D.C., U. S. Nation. Mus. Proc., **31**, (496).

Limanda iridorum, *angustirostris*, **spp. n.** Japan seas, JORDAN and STARKS, Washington, D.C., U. S. Nation. Mus. Proc., **31**, (206).

Peltorhamphus bassensis, Castelnau transferred from *Rhombosolea*, WAITE, Sydney, N.S.W., Rec. Austr. Mus., **6**, (198, fig.).

Platessa flesus, Leben im Aquarium, (Russ.), ZOLOTNITZKIJ, Jestestv. i geogr., Moskva, **11**, (66-80).

Pleuronectes; Versuche mit gezeichneten, BOLAU, Wiss. Meeresunters., **7**, Abt. Helgoland, (79-131, mit 3 Kart.).—*P. platessa*, Versuche mit gezeichneten, REDEKE, Helder, Verh. Onderz. Zee, **1**, (1-22).—*P. platessa* à deux faces colorées, CUÉNOT, Arcachon, Trav. soc. sci. station biol., **8**, (82-89, av. fig.).—*P. platessa*, Altersbestimmung, MAIER, Wiss. Meeresunters., N.F., **8**, Abt. Helgoland, (57-115, mit 2 Taf.).—*P.*

platessa, *limanda*, *flesus*, *microcephalus*, rate of growth, FULTON, Glasgow, Rep. Fish. Board, **24**, (179).—*P. platessa*, effect of acid, alkali, and certain indicators on development of egg, WHITLEY, London, Proc. R. Soc., **77**, (137).—*P. platessa*, Wanderung, Verbreitung im Kattegat, Wachstum, JOHANSEN, Kjöbenhavn, Cons. internat. expl. mer, (Ser. A. Rapp. et procès-verb.), (45-136, with 1 map).—*P. platessa*, spawning and fecundity, FULTON, Glasgow, Rep. Fish. Board, **24**, (281).—*P. platessa*, food, (232-251), occurrence of large fish close in land at New Quay, migration, growth, &c., (252-294), JOHNSTONE, Liverpool, Proc. Trans. Biol. Soc., **20**.—*P. flesus*, arrested metamorphosis, JOHNSTONE, T.C. (330-334).

Pseudorhombus misakius **sp. n.** Coasts of S. Japan, JORDAN and STARKS, Washington, D.C., U. S. Nation. Mus. Proc., **31**, (175).

Rhombosolea flesoides redescribed and figured, WAITE, Sydney, N.S.W., Rec. Austr. Mus., **6**, (197).

Rhombus maximus, *laevis*, rate of growth, FULTON, Glasgow, Rep. Fish. Board, **24**, (199).

Scacops kobensis **sp. n.** Japan, JORDAN and STARKS, Washington, D.C., U. S. Nation. Mus. Proc., **31**, (170).

(*Solea vulgaris*) — Développement, FAIRE - DOMERGUE et BIÉTRIX, Paris (Vuibert et Nony), 1905, (247 p. av. pl.).

Symphurus jenynsi **sp. n.**, EVERMANN and KENDALL, Washington, D.C., U. S. Nation. Mus. Proc., **31**, (108).

Symphurus fuscus **sp. n.** India, BRAUER, Wiss., Ergebn. D. Tiefsee-Exp., **15**, (296).

(*Synaptura punctatissima*, Peters, **var. n.**, *nigromaculata* côte occidentale d'Afrique, PELLEGRIN, Paris, Bul. soc. zool., **30**, (141).)—*S. punctatissima* Peters, **var. n.** *nigromaculata*, PELLEGRIN, Bordeaux Actes soc. linn., **60**, (17-57).

(*Cynoglossus broadhursti* **sp. n.** Carnarvon, W.A., WAITE, Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (73, fig.).)

SCOMBRIDAE.

Cybius stornisi **sp. n.** Éocène, Belgique, LERICHE, Mém. Mus. Belgique, **3**, (79, 151).

Germo macropterus, JORDAN, Pop. Sci. Mon., New York, N.Y., **68**, 1906, (376, with illustr.)

† *Pelamys delheidi* **sp. n.** Éocène, Belgique. LERICHE, Mém. Mus. Belgique, **3**, (148).

Scomber thumina, Yarmouth, first record on British coast, PATTERSON, Zoologist, **10**, (354).—† *S. dolli* **sp. n.** Éocène, Belgique. LERICHE, Mém. Mus. Belgique, **3**, (147).

(*Thynnus alalonga*, température, PORTIER, Paris, Bull. Soc. zool., **28**, 1903, (79-81).)

XIPHIIDAE.

Xiphias gladius o Pescespada : pesca in Calabria, MERCADANTE, etc., Rivista mensile di Pesca, **8**, (171-181c, 215-227, con 3 fig.).

GEMPYLIDAE.

Promethichthys pacificus **sp. n.**, SEALE, Honolulu, H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1-89).

LEPIDOPTIDAE.

Lepidopus gracilis, Atlantic, (291), *argenteus*, Indic., (292), **spp. n.**, BRAUER, Wiss. Ergebn. D. Tiefsee-Exp., **15**.

CARANGIDAE.

Caranx, commensalisme avec *Rhizostomidae*, PELLEGRIN, Paris, C.-R. ass. franç. avanc. sci., **34**, 1906, (570-571), et 1^{re} partie, (337).—*C. gilberti* **sp. n.**, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-455).

Chloroscombrus hesperius **sp. n.** W. Africa, FOWLER, Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, (114).

Decapterus lundini **sp. n.** Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (229).

Neptomenus crassus **sp. n.** Callao, STARKS, Washington, D.C., U. S. Nation. Mus. Proc., **30**, (781).

Pampanoa **subgen. n.** *Trachinoti*, type *Chaetodon glaucus* Bloch. FOWLER, Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, (116).

ICOSTEIDAE.

Icosteus enigmaticus, Seitenlinie. CONN, Zool. Anz., **30**, (178-183).

BRAMIDAE.

(*Bramichthys* **gen. n.**, for *B. woodwardi* **sp. n.**, Mandurah, W. A. WAITE, Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (72, fig.).)

SCARIDAE.

Callyodon pyrrhurus, *ruberrimus*, *erythraeus*, *upolensis*, *zonularis*, *abacurus*, *fumifrons*, *kelloggii*, *maoricus*, *latax*, *cyanogrammus*, *ultramarinus*, *lazulinus*, **spp. n.**; *C. macleayi* **nom. n.**, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-455).—*C. waitei*, *ultramarinus* Jordan and Seale **spp. n.**, SEALE, Honolulu, H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1-89).

Cryptolomus crassiceps **sp. n.** Bermuda, BEAN, Washington, D.C., Proc. Biol. Soc., **19**, (29-33).

Scarichthys rarotongae **sp. n.** SEALE, Honolulu, H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1-89).

Searus brighami **sp. n.** BRYAN and HERRE in BRYAN, Monogr. Marcus I., 1903 (131).

LABRIDAE.

Halichoeres daedalma **sp. n.**, *macleayi* **nom. n.** JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-455).

Iridio, *meyeri*, *decoratus*, *elegans*, *microstomus*, **spp. n.** Bermuda, BEAN, Washington, D.C., Proc. Biol. Soc., **19**, (29-33).

Labrus maculatus, remains from caves. Co. Clare, SCHARFF and others, Dublin Trans. R. Irish Acad., **33**, (24).

PlatyGLOSSUS flos-corallis **sp. n.** JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-455).

POMACENTRIDAE.

Abudefduf jordani, *caesio* **spp. n.** SEALE, Honolulu, H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1-89).—*A. taupou*, *metallicus* **spp. n.**, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (288).

Eupomacentrus chrysus **sp. n.** Bermuda, BEAN, Washington, D.C., Proc. Biol. Soc., **19**, (2)-33).

Pomacentrus raiuli, cecilius **spp. n.**, *derisi* **nom. n.** JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-455).

(*Hypsipops microlepis* Gunther, variation growth, WAITE, Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (67, fig.).)

CICHLIDAE.

Diagnosis, relationship, and general notes on the genera of American *Cichlidae*: REGAN, Ann. Mag. Nat. Hist., **17**, (236-239).

Acara bimaculata. LEONHARDT, Natur u. Haus, Dresden, **14**, (312-343).

Bathybates, relationship, diagnosis, *B. minor* **sp. n.** L. Tanganyika, BOULENGER, London, Trans. Zool. Soc., **17**, (564, pl. xxxviii).

Biotoccus; revision of. REGAN, Ann. Mag. Nat. Hist., **17**, (65).

Chaetobranchopsis; revision of, REGAN, T.c. (236).

Chaetobranchus; revision of, REGAN, T.c. (231-235).—*C. flavescens* = *Geophagus badiipinnis* Cope, REGAN, T.c. (51).

Cichla; revision of, REGAN, T.c. (230-234).

Cichlosoma gadorii, redescribed and figured, REGAN, Biol. Centr. Amer. Pisces (20, pl. v).—*C. balteatum*, *centrarichus*, *sexfasciatum*, *callolepis*, *maculicauda*, *robertsoni*, *friedrichstuhli*, and *multifasciatum* figured. REGAN, T.c. (pls. 2, 3).—*C. centrale*, Guatemala, *tenue*, Mexico, **spp. n.** MEEK, Chicago, Ill. Pub. Field Columb. Mus. Zool., **7**, (94).

Chromis iomelas **sp. n.** JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab. Bull. Bur. Fish., **25**, (173-455).

Cunningtonia **gen. n.**, *longiventralis* **sp. n.** L. Tanganyika, BOULENGER, London, Trans. Zool. Soc., **17**, (573, pl. xli).

Geophagus, revision of genus. REGAN, Ann. Mag. Nat. Hist., **17**, (50-60); *G. badiipinnis* v. *Chaetobranchus flavescens*.

Haplochromis percoides, *stanleyi*, *bicolor*, *crassilabris*, *granti*, *ishmaeli* **spp. n.** Lake Victoria, BOULENGER, Ann. Mag. Nat. Hist., **17**, (443-447).

Haplotarodon **gen. n.**, *microlepis* **sp. n.** L. Tanganyika, BOULENGER, London, Trans. Zool. Soc., **17**, (566, pl. xxxviii).

Herichthys underwoodi **sp. n.**, Costa Rica, *H. geddesi* figured. REGAN, Biol. Centr. Amer. Pisces (30, pl. iii).

Heterogramma **gen. n.** = *Mesops* part. *Geophagus* part., *H. borellii* **sp. n.**, (63). REGAN, Ann. Mag. Nat. Hist., **17**, (60-65).

Lamprologus brevianalis, *cunningtoni*, *mondabri*, *multifasciatus*, *callipterus*, *reticulatus*, *callinurus*, **spp. n.** L. Tanganyika, BOULENGER, London, Trans. Zool. Soc., **17**, (555, pl. xxxvi).

Mesops taeniatus v. *Heterogramma*.

Paratilapia cinerea **sp. n.** Lake Victoria, BOULENGER, Ann. Mag. Nat. Hist., **17**, (439-440).

Paratilapia prognathus, *victoriana* **spp. n.** PELLEGRIN, Paris, Bul. soc. zool., **29**, (185); *P. frontosa* **sp. n.** L. Tanganyika, BOULENGER, London, Trans. Zool. Soc., **17**, (561, pl. xxvii).

Pelmatochromis melanostigma, *pleurospilus*, *rhodostigma*. **spp. n.** L. Tanganyika, BOULENGER, London, Trans. Zool. Soc., **17**, (567, pl. xxxix).

Pelmatochromis regani **sp. n.**, l'Ogôoué, PELLEGRIN, Bul. Muséum, Paris, **1906**, (471).

Pelmatochromis speckii, *flavipinnis*, *micaodon*, *obesus*, **spp. n.**, Lake Victoria, BOULENGER, Ann. Mag. Nat. Hist., **17**, (440-443).

Platytaeniodus **gen. n.**, *degeni* **sp. n.**, BOULENGER, T.c. (451-452).

Retroculus; revision of. REGAN, Ann. Mag. Nat. Hist., **17**, (49-50).

Tilapia latifrons **sp. n.**, L. Tanganyika, BOULENGER, London, Trans. Zool. Soc., **17**, (571, pl. xl).

Tilapia guiarthi **sp. n.**, PELLEGRIN, Paris, Bul. soc. zool., **29**, (186).—*T. variabilis*, *nigricans*, *marini*, *laerimosa*, *nubila*, **spp. n.**, Lake Victoria, BOULENGER, Ann. Mag. Nat. Hist., **17**, (447-451).

Trematocara nigrifrons **sp. n.**, L. Tanganyika, BOULENGER, London Trans. Zool. Soc., **17**, (570, pl. li).

(*Crenieichla johanna* Heckel **var. n.**, *carserenensis*, PELLEGRIN, Paris, Bul. soc. zool., **30**.)

OSPHROMENIDAE.

Luciocephalus pulcher, lebendgebärender Hecht aus Sumatra, REICHELT, Wochenschr. Aquarienkunde, **3**, (4-5, 122-123).

Osphromenus malayanus, lebendgebärender Gurami, REICHELT, Wochenschr. Aquarienkunde, **3**, (4-5, 122-123).

(*Po'gyacanthus opercularis* L., breeding habits, WAITE, Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (1-4).)

TEUTHIIDAE.

Drepane punctata L. **var. n.**, *octofasciata*, PELLEGRIN, Bordeaux Actes soc. linn., **60**, (17-57).

Teuthis bishopi **sp. n.**, BRYAN and HERRE in BRYAN, Monogr. Marcus I, 1903, (134).

CHAETODONTIDAE.

Hepatus aquilinus **sp. n.**, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-455).

(*Chaetolon assarius* **sp. n.**, Freemantle, W. A., WAITE, Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (66, fig.).)

(*Neatypus* **gen. n.**, *obliquus* **sp. n.**, West Australia WAITE, Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (65, fig.))

SIGANIDAE.

Lo **gen. n.**, SEALE, Honolulu, H.I., Occ. Papers., Bernice Pauahi Bishop Mus., **4**, (1-89).—*Lo* **gen. n.**, type *Amphacanthus vulpinus* Schlegel and Müller, JORDAN and SEALE, Washington, D.C., Dept. Com. Lab., Bull. Bur. Fish., **25**, (36).

Siganus shortlandensis, *zoniceps* **spp. n.**, SEALE, Honolulu, H.I., Occ. Papers., Bernice Pauahi Bishop Mus., **4**, (1-89).

MULLIDAE.

Mullus barbatus Solway, first record, SERVICE, Ann. Scot. Nat. Hist., **1906**, (51).

Pseudupeneus aurantiacus **sp. n.**, SEALE, Honolulu, H.I., Occ. Papers., Bernice Pauahi Bishop Mus., **4**, (1-89).—*P. moana* **sp. n.**, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-455).

MAENIDAE.

Caesio teres **sp. n.**, SEALE, Honolulu, H.I., Occ. Papers., Bernice Pauahi Bishop Mus., **4**, (1-89).

SPARIDAE.

Calamus penna figured, FOWLER, Philadelphia, Proc. Acad. Nat. Sci., **58**, (99).

†*Charax haugi* **sp. n.**, terrains néogènes, France, JOLEAUD, Avignon, Mém. Ac., **6**, (352).

†*Chrysophrys deydieri* **sp. n.**, terrains néogènes, France, JOLEAUD, Avignon, Mém. Ac., **6**, (350).

†*Dentex chateleti* **sp. n.**, terrains néogènes, France, JOLEAUD, Avignon, Mém. Ac., **6**, (353).

Pagellus centrodonatus in Essex waters, MURIE, Stratford, Essex Nat., **14**, (238).

Pagrus arthurius **sp. n.**, Port Arthur, JORDAN and STARKS, Washington, D.C., U. S. Nation. Mus. Proc., **31**, (517).

†*Sparidarum rutoti* **sp. n.**, Éocène, Belgique. LERICHE, Mém. Mus. Belgique, **3**, (165).

SCIAENIDAE.

Asterina improvisa Ostroum.=*Umbrina cirrhosa* L., GRATZIANOFF, St. Peterburg, Bull. Ac. Sc., **23**, (35-39).

Collichthys niveatus **sp. n.**, Port Arthur, JORDAN and STARKS, Washington, D.C., U. S. Nation. Mus. Proc., **31**, (519).

Sciaena gilberti **sp. n.**, Callao, STARKS, Washington, U. S. Nation. Mus. Proc., **30**, (794).—*S. aquila* Solway, first record, SERVICE, Ann. Scot. Nat. Hist., **1906**, (54).

Umbrina cirrhosa vide *Asterina improvisa*.

SILLAGINIDAE.

(*Sillago boutani* **sp. n.** Baie d'Along, Tonkin, PELLEGRIN, Paris, Bul. soc. zool., **30**, (86).)

LEIOGNATHIDAE.

Leiognathus elongatus **sp. n.**, Kago-shima, SMITH and POPE, Washington, D.C., U. S. Nation. Mus. Proc., **31**, (467).

PSEUDOCROMIDIDAE.

Oceanops **gen. n.**, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-455).

HAEMULIDAE.

Hapalogenys kishinouyei **sp. n.**, URADO, SMITH and POPE, Washington, D.C., U. S. Nation. Mus. Proc., **31**, (476).

Haemulon sciurus figured, FOWLER, Philadelphia, Proc. Acad. Nat. Sci., **58**, (98).

Isacia renusta **sp. n.**, CALLAO, STARKS, Washington, D.C., U. S. Nation. Mus. Proc., **30**, (789).

Pomadasis burro **sp. n.**, GUAYAQUIL, STARKS, T.C. (791).

LUTIANIDAE.

Lutianus nukuhirae, tahitiensis, melanesisae **spp. n.**, SEALE, Honolulu, H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1-89).—*L. nishikawae* **sp. n.**, HAMASHIMA, SMITH and POPE, Washington, D.C., U. S. Nation. Mus. Proc., **31**, (374).

CHEILODIPTERIDAE.

Ambassis lafa, vairasensis **spp. n.**, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-455).

Amia exostigma Jordan and Starks, A. doryssa **spp. n.**, JORDAN and SEALE, T.C. (237).—*Amia* Gronow takes precedence of *Apogon* Lacépède, JORDAN and SEALE, T.C. (237).

Apogonichthys isostigma **sp. n.**, JORDAN and SEALE, T.C. (173-455).

Foa fo, raiulue **spp. n.**, SAMOA, iid. T.C. (248).

Oxyodon **gen. n.** *Acropomatidae*, (287), *macrops* **sp. n.** India (288), BRAUER, Wiss. Ergebn. D. Tiefsee-Exp., **15**.

Pomatomus, CRANIUM, SUFINO, Roma Ric. Lab. anat. norm., **9**, 1903, (217).

SERRANIDAE.

Centropomus gabbi E. San Domingo, *heringi* Surinam or Dutch Guiana, **spp. n.**, FOWLER, Philadelphia, Proc. Acad. Nat. Sci., **58**, (123).

Chorististium susumi **sp. n.**, JORDAN and SEALE, Washington, D.C., Dept.

Comm. Lab., Bull. Bur. Fish., **25**, (173-455).

Epinephelus zapyrus **sp. n.**, SEALE, Honolulu, H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1-89).

Lates angustifrons **sp. n.** L. Tanganyika, BOULENGER, London Trans. Zool. Soc., **17**, (555, pl. xxxv).

Paralabrax callaensis **sp. n.** Callao. STARKS, Washington, U. S. Nation. Mus. Proc., **30**, (787).

Percalates fluviatilis **sp. n.**, N.S. Wales, STEAD, Sydney, N.S.W., Proc. Linn. Soc., N.S.W., **31**, (261).

Rooseveltia Jordan and Evermann **gen. n.** type *Serranus brighami*, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (265).

Satsuma **gen. n.**, *macrops* **sp. n.**, SMITH and POPE, Washington. U. S. Nation. Mus. Proc., **31**, (472).

Sayonara mitzukurii **sp. n.** Kago-shima, SMITH and POPE, T.C. (469).

Stercolypis ischinagi of Japan, JORDAN and SNYDER, Washington, D.C., U. S. Nation. Mus. Proc., **30**, (841).

Tosana **gen. n.**, *nirae* **sp. n.** Urado Bay, SMITH and POPE, Washington, U. S. Nation. Mus. Proc., **31**, (470).

PERCIDAE.

†*Cristigorina* **gen. n.**, *crassa* **sp. n.** Éocène, Belgique, LERICHE, Mém. Mus. Belgique, **3**, (80).

Lucioperca sandra, Aussetzung in norwegische Seen, HUITFELDT-KAAS, Bergen, Norsk Fisket., **25**, (187-192).

Perca fluviatilis, attuale infezione da *Tetracotyle*, lago di Pusiano, MAZZARELLI, Rivista mensile di Pesca, **8**, (142-144).

Percidarium kokeni **sp. n.**, Éocène Belgique, LERICHE, Mém. Mus. Belgique, **3**, (89, 162).

CENTRARCHIDAE.

Mesogonistius chaetodon, Fortpflanzung, Hochzeitskleid etc, EMELJANENKO, Naturfreund, **1**, (35-38).

Pomotis auritus [*Eupomotis aurens* Walb.] nei laghi lombardi, BELLOTTI, etc., Acquicoltura lombarda, **7**, (59-62).

NANDIDAE.

Polycentropsis abbreviata; ARNOLD, Wochenschr. Aquarienkunde, Braunschweig, **3**, (451-453).

Polycentrus schomburgkii, note and figure, REGAN, London, Proc. Zool. Soc., **1906**, **1**, (391).

DULEIDAE.

The name Duleidae supersedes Kuhlidae as *Kuhlia* Gill 1841 is superseded by *Dules* Cuvier 1829. FOWLER, Philadelphia, Proc. Acad. Nat. Sci., **58**, (510).

Dules marginatus boninensis subsp. n. Bonin Is. N. Pacific, FOWLER, T.c. (510).

PEMPHERIDAE.

Priacanthopsis subgen. n. (*Pempheris*) FOWLER, Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, (122).

BERYCIDAE.

Holocentrus meeki sp. n. Bermuda, BEAN, Washington, D.C., Proc. Biol. Soc., **19**, (29).

Holocentrus rubellio, verticalis spp. n., SEALE, Honolulu, H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1-89).

Hoplostethus, cranio, SUPINO, Roma, Ric. Lab. anat. norm., **9**, 1903, (217).

Hoplostethus hexagonatis sp. n., Éocène Belgique, LERICHE, Mém. Mus. Belgique, **3**, (146).

Melamphaes nigreseens sp. n. Atlantic, India, BRAUER, Wiss. Ergebn. D. Tiefsee-Exp., **15**, (283).—*M. eurylepis* sp. n., deepwater N.E. Atlantic, HOLT and BYRNE, Dublin, Fish. Ireland Sci. Invest., **1905**, II [1906], (20, pl. i).—[*M. (Plectronus) nordenskjöldii* sp. n. [vide 1905], LÖNNBERG, Wissensch. Ergebn. Schwed. Südpol.-Exp., **5**, 1905, (58).]

Myripristis sanguineus sp. n., JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-455).—*M. sanguineus, phaeopus* spp. n. SEALE, Honolulu, H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1-89).

ANACANTHINI.

GADIDAE.

Gadus, pelagic post larval stages of Atlantic species, SCHMIDT, Kjöbenhavn, Meddel. Komm. Havundersög., (Ser. (N-9720 b)

Fiskeri), **2**, No. 2, (1-20, with 1 pl.).—*G. callarias, aeglefinus, merlangus*, rate of growth, FULTON, Glasgow Rep. Fish. Board, **24**, (209).—*G. callarias*, hermaphroditism, WILLIAMSON, T.c. (290).—*G. luseas, minutus* and *esmarkii* specific characters, WILLIAMSON, T.c. (116).

[*Halargyreus affinis* sp. n. Faroe Channel 1200 m., COLLETT, Kristiania, Forh. Vid. selsk., **1904**, 1905, No. 9, (6).]

Lota lota, Gefangenleben, KAMMERER, Bl. Aquarienkunde, Magdeburg, **17**, (143-445, 455).

Merluceius capensis, Castelnau, re-described, REGAN, Ann. Natal Govt. Mus., **1**, pt. 1, (4).

(*Molva molva*, Linné and *M. byrkelange*, Walbaum) pelagic post-larval stages, SCHMIDT, Kjöbenhavn, Meddel. Komm. Havundersög., (Ser. Fiskeri), **2**, No. 3, (1-16, with 1 pl.)

Physiculus edelmanni sp. n. India., BRAUER, Wiss. Ergebn. D. Tiefsee-Exp., **15**, (274).

MACROURIDAE.

Coelorhynchus jordani sp. n. Kago-shima, SMITH and POPE, Washington, D.C., U. S. Nation. Mus. Proc., **31**, (194).

MURAENOLEPIDIDAE.

[*Muraenolepis marmoratus* Gthr. *microps* subsp. n. LÖNNBERG, Fishes in Wissensch. Ergebn. Schwed. Südpol.-Exp., **5**, 1905, (9).]

PERCESOCES.

ANABANTIDAE.

Anabas muriei sp. n. White Nile, A. petheriei = *Ctenopoma petherici* Gthr., BOULENGER, Ann. Mag. Nat. Hist., **18**, (348).

POLYNEMIDAE.

Polydaetylus agonasi sp. n. Japan, JORDAN and MCGREGOR, Washington, U. S. Nation. Mus., Proc., **30**, (813-815).

SPHYRAENIDAE.

Sphyræna goodingi sp. n., SEALE, Honolulu, H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1-89).

MUGILIDAE.

Chaenomugil natiens **sp. n.** Marcus I. BRYAN and HERRE in BRYAN, Monogr. Marcus I., 1903, (127).

STROMATEIDAE.

Psenes chapmani **sp. n.** Atlantic N.W. of Cape de Verde Is., FOWLER, Philadelphia, Proc. Acad. Nat. Sci., **58**, (119).

Pterorhombus **subgen. n.** *Stromatei*, FOWLER, T.C. (118).

Stromateus brasiliensis **sp. n.** Brazil, FOWLER, T.C. (116).

ATHERINIDAE.

Atherina morrisoni **sp. n.** Japan, JORDAN and STARKS, Washington, U. S. Nation. Mus. Proc., **30**, (697).—*A. uisila* **sp. n.**, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-455).

Nannatherina **gen. n.**, *balstoni* **sp. n.** W. Australia, REGAN, Ann. Mag. Nat. Hist., **18**, (451).

Odontesthes **gen. n.**, *perugiae* **sp. n.** Argentina, EVERMANN and KENDALL, Washington, U. S. Nation. Mus. Proc., **31**, (94).

AMMODYTIDAE.

Review of *Ammodytidae* already known from Japan. JORDAN, Washington, U. S. Nation. Mus. Proc., **30**, (715-719).

SCOMBRESOCIDAE.

Cypselurus tahitensis **sp. n.**, SEALE, Honolulu, H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1-89).

Exocoetus; ABEL, Wien, Jahrb. Geol. RehsAnst., **56**, (1-88, mit 3 Taf.)

Hemiramphus fluvialilis. Halbschnäbeliger Hecht aus Malakka. REICHEL, Natur u. Haus, Dresden, **14**, (118-120).—*H. australensis* **sp. n.** SEALE, Honolulu, H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1-89).

Tylosurus jordani **sp. n.** Ecuador, STARKS, Washington, U. S. Nation. Mus. Proc., **30**, (781).—*T. notatus* described and figured, FOWLER, Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, (90).

Zenarchopterus raisiganis **sp. n.**, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-455).

CATOSTEOMI.

Lophobranchier, Brutpflege. PETERSEN, Zool. Jahrb., Jena, Abt. f. Syst., **24**, (265-306, mit 1 Taf.).

Phénomènes de torsion de l'ébauche cardiaque chez les Lophobranches. WEBER, Paris, C.-R. soc. biol., **61**, (253-254); Réunion biologique de Nancy, **1906**, (53-54).

Premiers stades du développement de la vessie natatoire chez les Lophobranches. WÉBER, C.-R. ass. anat., 8^e session (Bordeaux), **1906**, (90-93, av. fig.).

Centriscus scolopax dans l'océan Atlantique, KÜNSTLER et CHAINE, Arachon, Trav. soc. sci., station biol., **8**, (126).—*C. scolopax* in Irish waters. PATTERSON, Irish Nat., Dublin, **15**, (191).

Corythoichthys waitei, *scalei*, *matatafae* **sp. n.**, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-455).—*C. tanakae* **sp. n.** Japan, JORDAN and STARKS, Washington, U. S. Nation. Mus. Proc., **30**, (696).—*C. pullus* **sp. n.**, SMITH and SEALE, Washington, D.C., Proc. Biol. Soc., **19**, (73-82).

Gasterosteus aculeatus, Ueberführung in Seewasser. BADE, Bl. Aquarienkunde, Magdeburg, **17**, (374). MÜLLEGER, T.C. (320).

Hippocampus brunneus **sp. n.** Bermuda, BEAN, Washington, D.C., Proc. Biol. Soc., **19**, (29-33).—*H. kincaidii* **sp. n.** TOWNSEND and BARBOUR, New York, N.Y., Zool. Soc. Bull., No. **23**, (304-305).

Microphis torrentius **sp. n.** Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (214).

Necrophis aequoreus L. var. n. *exilis*, HOLT and BYRNE, Fish. Ireland Sci. Invest., **1905**, II, [1906], (18).

Syngnathus mackayi, *cluceus*, *lonisiana* described and figured, FOWLER, Philadelphia, Proc. Acad. Nat. Sci., **58**, (93).—*S. acus*, Entstehung des Hautpanzers, KASANZEFF, Zool. Anz., **30**, (854-861).

HAPLOMI.

CYPRINODONTIDAE. POECILIIDAE.

A review of the *Poeciliidae* or killifishes of Japan. JORDAN and SNYDER, Washington, U. S. Nation. Mus., Proc., **31**, 1906, (287-290).

Poeciliidae viviparae, WICHAND, Bl. Aquarienkunde, Magdeburg, **17**, (463-469, 475-476, 484-485, 495-496, 503-504, 515-516).

Characodon lateralis, lebendig-gebärend, PAPPENHEIM, Berlin, SitzBer. Ges. natf. Freunde, **1906**, (235).

Cnesterodon Garman, PHILIPPI, Berlin, SitzBer. Ges. natf. Freunde, **1906**, (229).

Cyprinodon mydrus Goode and Bean described and figured, FOWLER, Philadelphia, Proc. Acad. Nat. Sci., **58**, (89).

Fundulus heteroclitus, development, normal and in salt solutions, STOCKARD, J. Exp. Zool., **3**, (99-120).

Girardinus guppyi Gtflr. redescribed and figured, REGAN, London, Proc. Zool. Soc., **1906**, 1, (390).

Glaridichthys Garman, PHILIPPI, Berlin, SitzBer. Ges. natf. Freunde, **1906**, (229-232).

Haplochilus pumilus **sp. n.** L. Tanganiyika, BOULENGER, London, Trans. Zool. Soc., **17**, (554, pl. xxxii).—*H. harti* Blgr. redescribed and figured, REGAN, London, Proc. Zool. Soc., **1906**, 1, (389).

Jenynsia maculata **sp. n.** Argentina, REGAN, Ann. Mag. Nat. Hist., **18**, (154).

Oryzias **gen. n.** type *O. latipes* (*Poecilia latipes* Schlegel), JORDAN and SNYDER, Washington, U. S. Nation. Mus. Proc., **31**, (289).

Platypoecilus perugiae, dominicensis, **spp. n.** San Domingo, EVERMANN and CLARK, Washington, U. S. Nation. Mus. Proc., **30**, (851).

Poecilia reticulata, Nomenklatur, KÖHLER, Bl. Aquarienkunde, Magdeburg, **17**, (497-498).

(*Orestias nereni* **sp. n.** *agassizi inornata, typica, senecchali, crequii* varr. **n.** PELLEGRIN, Paris, Bul. soc. zool., **29**, 1904, (90-96).)

SCOPELIDAE.

Scopelids in the collection of the Museum of comparative zoology. GILBERT, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**, (253-263, with 3 pls.).

Diaphus garmani **sp. n.** GILBERT, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**, (253-263).

Evermanella indica **sp. n.** India, BRAUER, Wiss. Ergebn. D. Tiefsee Exp., **15**, (135).

[*Myetophum andersoni, braueri* and *parallelum* **spp. n.** Antarctic regions, LÖNNBERG, Wissensch. Ergebn. Schwed. Südpol.-Exp., **5**, 1905, (61).]—*M. vanhoeffeni* (222), *gaussi* (235), *longipes* (236), Atlantic, India., *micropterygion* (239), *tenuiforme* India, (243), **spp. n.**, BRAUER, Wiss. Ergebn. D. Tiefsee-Exp., **15**.

Omosudis elongatus, Atlantic, Indic., (140), *brevis*, Atlantic, (142), **spp. n.**, *O. loewi* var. **n. indicus**, BRAUER, T.c.

Scopelopsis **gen. n.**, *multipunctatus*, **sp. n.** Kapstadt, BRAUER T.c., (146).

Scopelus crocodilus described and figured. HOLT and BYRNE, Fish. Ireland Sci. Invest., **1905**, 11, [1906], (12, pl. i).

(*Synodus sagenus* **sp. n.** Freemantle, W.A., WAITE, Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (58, fig.))

CHIROTHRICIDAE.

†*Chirothrix libanicus* Pict. et Hump. ABEL, Wien, Jahrb. Geol. Reichsanst., **56**, (1-88, mit 3 Taf.).

ESOCIDAE.

Umbra **sp. = Fundula cyprinodonta**, Carbonnier, GILL, Science, **24**, (818-819).

GALAXIIDAE.

Galaxias tilcombi **sp. n.** Rio Trafal, Argentina, EVERMANN and KENDALL, Washington, U. S. Nation. Mus. Proc., **31**, (92).

APODES.

Anarchias Jordan and Starks **gen. n.**, *allardicei* Jordan and Starks **sp. n.**, *knighti* Jordan and Starks **sp. n.** Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (204).

Anguilla vulgaris, Neucs vom, LUND, U. Umschau, Frankfurt a. M., **10**, (485-486).

Chlopsis bicolor Raf., SUPINO, Roma, Ric. Lab. anat. norm., **11**, 1905, (25-31).

Echidna trossula Jordan and Starks **sp. n.**, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-155).

Gymnothorax talofa Jordan and Starks **sp. n.**, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (201).

Gymnothorax zonipectis, tahitensis, marquesensis **sp. n.**, SEALE, Honolulu. H.I., Occ. Paprs., Bernice Pauahi Bishop Mus., **4**, (1-89).—*G. detaetus* **sp. n.** Marcus I., BRYAN and HERRE in BRYAN, Monograph of Marcus Island, 1903, (126).

Leptocephalus conger, Long island coast, QUACKENBUSH, Science, **23**, (702-703).—*L. mirabilis* **sp. n.** India, BRAUER, Wiss. Ergebn. D. Tiefsee-Exp., **15**, (125).

Nettastomops **gen. n.**, *barbatula* **sp. n.** Upolu, STEINDACHNER, Wien, Anz. Ak. Wiss., **1906**, (299).

Rhinamuraena eritima **sp. n.** Samoa, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (196).

Saurenhelys canerivora Peters, SUPINO, Roma, Ric. Lab. anat. norm., **11**, 1905, (143-149).

Synphobranchus pinnatus, young specimen, HOLT and BYRNE, Fish. Ireland Sci. Invest., **1905**, II, [1906], (7).

Todarus brerirostris, SUPINO, Roma, Ric. Lab. anat. norm., **11**, 1905, (255-259).

SYMBRANCHII.

Alabetidae n. fam. nom. GILL, Science, **23**, (585).

Alabes (= *Cheilobranchus*); GILL, Science, **23**, (584).—(*A. curieri* (Kaupp. mss.), VAILLANT, Nouv. Arch. Muséum, Paris, **7**, 1905, (143).)

Monopterus javanensis, Circulations- und Respirationsapparat, VOLZ, Zool. Jahrb., Abt. f. Anat., **23**, (163-186, mit 1 Taf.).

OSTARIOPHYSI.

ASPREINIDAE.

Unnocephalus; SCHRÖDER, Wochenschr. Aquarienkunde, Braunschweig, **3**, (591-592).

LORICARIIDAE.

Ancistrus bovallii **sp. n.** British Guiana, REGAN, Ann. Mag. Nat. Hist., **17**, (96).

Loricaria steinbachi **sp. n.** Argentina, REGAN, T.c. (97).

Plecostomus garmani Regan = not *P. lima*, *atropinnis* Eigenm. but *P. lima*

Eigenm. *P. horridus* Kner and *P. tenuicauda* are distinct from *P. emarginatus* C. and V. REGAN, T.c. (94).

Thysanocara **subgen. n.** for *Xenocara cirrhosum* and allies, REGAN, T.c. (96).

SILURIDAE.

Skeleton of *Siluridae*, KOSCHKAROFF, Moskva, Bull. Soc. Nat., **1906**, (209-307).

Amiurus nebulosus, élevage dans les étangs du Dauphiné, PION-GAUD, Paris, Bull. ass. franç. avanc. sci., **1904**, (259).

†*Arius egertoni* var. *belgicus* var. n. éocène Belgique, LERICHE, Mem. Mus. Belg., **3**, (145).

Atopochilus macrocephalus **sp. n.** Kwango River, BOULENGER, Ann. Mag. Nat. Hist., **17**, (112).

Bagrus degeni **sp. n.** Lake Victoria, BOULENGER, T.c. (438).

Callichthys punctatus, Fortpflanzung, JÜRGENS, Wochenschr. Aquarienkunde, Braunschweig, **3**, (368-371).

Chrysichthys sianenna **sp. n.** L. Tanganyika, BOULENGER, London, Trans. Zool. Soc., **17**, (551, pl. xxxii).

Clarias alluaudi **sp. n.** Lake Victoria, BOULENGER, Ann. Mag. Nat. Hist., **17**, (437).—*C. wernerii* **sp. n.** Uganda, BOULENGER, T.c. (569).—*C. gilli* **sp. n.** SMITH and SEALE, Washington, D.C., Proc. Biol. Soc., **19**, (73).

Corydoras treillii und *julii* **spp. n.** Parnahyba und Parahimfluss, STEINDACHNER, Wien, Anz., **1906**, (478).

Doumea angolensis **sp. n.** Angola, 4000-5000 ft., BOULENGER, Ann. Mag. Nat. Hist., **18**, (347-348).

Liocassis baremensis and *hosii* **spp. n.** Sarawak, REGAN, T.c. (67-68).

Macrones baremensis **sp. n.** Sarawak, REGAN, T.c. (68).

Mochochus brevis **sp. n.** White Nile, BOULENGER, T.c. (147-148).

Dinotopterus **gen. n.**, *cunningtoni* **sp. n.** L. Tanganyika, BOULENGER, London, Trans. Zool. Soc., **17**, (550, pl. xxxi).

Galeichthys simonsi **sp. n.** Callao, STARKS, Washington, U.S. Nation. Mus. Proc., **30**, (764).

Paranchenipterus pascac **sp. n.** Trinidad, REGAN, London, Proc. Zool. Soc., **1906**, 1, (387).

Phyllonemus **gen. n.**, *typus* **sp. n.** L. Tanganyika, BOULENGER, London, Trans. Zool. Soc., **17**, (552, pl. xxxii).

Pseuduchenipterus guppyi **sp. n.** Trinidad, REGAN, London, Proc. Zool. Soc., **1906**, 1, (387).

Rhamdia cabreræ **sp. n.** Lake Amatitlan, MEEK, Chicago Ill. Pub. Field Columb. Mus. Zool., **7**, (93).—*R. gilli* **sp. n.** Peru, STARKS, Washington, U. S. Nation. Mus. Proc., **30**, (769).—*Rhamdia depressa, sacrificii* **spp. n.** BARBOUR and COLE, Cambridge, Mass., Bull. Mus. Comp. Zool., Harvard Coll., **50**, (146-159).

Silurus glanis, GILL, Washington, Univ. Bull., **5**, (5-13).

Slatinia **gen. n. mongallensis** **sp. n.** Bahr-el-Gebel, WERNER, Wien, Anz. Ak. Wiss., **1906**, (326).

Synodontis melanostictus **sp. n.** L. Tanganyika, BOULENGER, London, Trans. Zool. Soc., **17**, (553, pl. xxxiv).—*S. victoriæ* **sp. n.** Lake Victoria, BOULENGER, Ann. Mag. Nat. Hist., **17**, (438-439).—*S. haugi* **sp. n.** l'Ogôoué, PELLEGRIN, Bul. Muséum, Paris, **1906**, (470).—*S. courteli* **sp. n.** Soudan, PELLEGRIN, T.c. (473).

Tachysurus equatorialis **sp. n.** Ecuador, STARKS, Washington, U. S. Nation. Mus. Proc., **30**, (767).

INCERTÆ SEDIS.

†(*Lyrolepis caucasicus* aus dem Mergel des Kaukasus, Osteologie und Schuppen, ROMANGVSKIJ, St. Peterburg, Verh. Russ. mineral. Ges., **42**, (1-8, mit Taf. i).)

CYPRINIDÆ.

Acanthorodius asmussi (Ryb.), Verbreitung und Beschreibung, BERG, St. Peterburg, Ann. Mus. zool. Ac. Sc., **11**, (x-xiv).

Acheilognathus chaukaensis (Dyl.), Beschreibung, BERG, T.c. (x-xiv).

Barbus, 4 species from W. Africa defined and re-described, BOULENGER, Ann. Mag. Nat. Hist., **18**, (32-35).—*B. hosii* **sp. n.** Sarawak, REGAN, T.c. (66).—*B. portali* **sp. n.** Uganda, BOULENGER, T.c. (36).—*B. minchini, magdalenæ, lobogenys* **spp. n.** Lake Victoria, BOULENGER, op. cit., **17**, (435-437).—*B.*

zuaicus, macmillani, botlegi, zaphiri, gularicus, cumyustus, margaritæ, alticola **spp. n.** BOULENGER, T.c. (562-566).—*B. plebeius, Psorospermosi* o Mixoboliasi, STAZZI, Rivista mensile di Pesca, Milano, **8**, (14-19).—*B. fluvialilis*, structure de la vessie urinaire, AUDIGÉ, C.-R. ass. anat., 6^e session (Toulouse), Naney, **1904**, (186-188).—*B. goktschaicus* Kessl., Goktscha-See, Lebensweise, GRIMM, Věst. rybopromyšl., **21**, (513-520).

Capoeta serangi De Fil. Goktscha-See, Lebensweise, GRIMM, Věst. rybopromyšl., **21**, (513-520).

Cobitis, prétendue immunité à l'égard des infections myxosporidiennes, CÉPÈDE, Paris, C.-R. soc. biol., **60**, 1906, (15-16).—*C. caucasica* **sp. n.** Nördl. Kaukasus, BERG, St. Peterburg, Bull. Ac. Sc., **24**, (35-39).

Cosmochilus falcifer **sp. n.** Sarawak, REGAN, Ann. Mag. Nat. Hist., **18**, (66).

Cyprinus micristius **sp. n.** Yunnan, REGAN, Ann. Mag. Nat. Hist., **17**, (332).—*C. carpio* der Karpfen, Geschichte, Naturgeschichte und wirtschaftliche Bedeutung, (104).—*C. carpio*, Winterschlaf, BORODIN, Věst. rybopromyšl., **21**, (214-216).—*C. carpio*, Brustbein (Eimer), BAHR, Zool. Jahrb., Anat., **22**, (629-636, mit 2 Taf.).—*C. idus*, source of human infection with *Distomum felineum*, ASKANAZY, Königsberg, Schr. physik. Ges., **46**, (127).

Diptychus Steind., Merkmale, Systematik, Variabilität, Phylogenie, ANIKIN, Tomsk, 1906, (84, mit 1 Tab.).

Gyrinocheilus kaznakovi **sp. n.**, BERG, St. Peterburg, Trav. Soc. Nat. C.R., **37**, (364).

Leuciscus; specie italiane di sottogenero *Leucos* Bp., CHIAPPI, Boll. Soc. zool. ital., **6**, (21-47, 1 tav.).—*L. cephalus*. Hampshire Avon, CORBIN, Zoologist, **10**, (435).—*L. virgo* aus dem Kaspischen Meere, BERG, St. Peterburg, Bull. Ac. Sc., **24**, (35-39).

Leucogobio coreanus **sp. n.**, Korea, BERG, Ann. Mag. Nat. Hist., **18**, (394-395).

Misgurnus **spp.** N. China. JORDAN and SNYDER, Washington, U. S. Nation. Mus., Proc., **30**, (833-834).

Nemachilus radinaeus **sp. n.** Helmand Basin, REGAN, Calcutta J. As. Soc. Beng., **2**, (8).—*N. grahanii* **sp. n.** Yunnan, REGAN, Ann. Mag. Nat. Hist., **17**, (333).—*N. tigris* aus dem Gouv.

Kars, BERG, St. Petersburg, Bull. Ac. Sc., **24**, (35-39).—*N. barbatulus toni*, Verbreitung, Dimensionen, BERG, Trd. Troick-Kiacht. Otd. Russ. Geogr. Obsč., **8**, (64-70).

(*Nemacheilus flavus* sp. n. BERG, L., Taschent, Izv. Turk. Otd. Russ. Geogr. Obsč., **4**, 1905.)

Neobola minuta sp. n. L. Tanganyika, BOULENGER, London, Trans. Zool. Soc., **17**, (549, pl. xxxii).

(*Neobola argentea* sp. n. PELLEGRIN, Paris, Bul. soc. zool., **29**, (184).)

Nuria danrica, Leben in der Gefangenschaft, (Russ.) STOLL, Naturfreund, St. Petersburg, **1**, (207-209).

Phoxinus septentrionalis sp. n. Japan, JORDAN and SEALE, Washington, U. S. Nation. Mus. Proc., **30**, (143).

(*Ptychobarbus oschanini* n. sp. BERG, L., Taschent, Izv. Turk. Otd. Russ. Geogr. Obsč., **4**, 1905.)

Rhodeus oryzae sp. n. Japan, JORDAN and SEALE, Washington, U. S. Nation. Mus. Proc., **30**, (144).—*R. sericeus*, Verbreitung, Beschreibung, BERG, St. Petersburg, Ann. Mus. zool. Ac. Sc., **11**, (x-xiv).

Sayonara gen. n., *S. satusmae* sp. n. Japan, JORDAN and SEALE, Washington, U. S. Nation. Mus. Proc., **30**, (145).

Scaphiodon macmahoni sp. n. Helmand Basin, REGAN, Calcutta, J. As. Soc. Beng., **2**, (8).

Stelyjistrum mororane sp. n. Japan, JORDAN and SEALE, Washington, U. S. Nation. Mus. Proc., **30**, (146).

Squalius borysthenicus Kessler aus der Krym, BERG, St. Petersburg, Bull. Ac. Sc., **24**, (35-39).

Tinea vulgaris. Die Schleienzucht . . . STROPAHL, Stettin, (viii + 63, mit 8 Taf.)

Varicorhinus ansorgii sp. n. Kwango River, BOULENGER, Ann. Mag. Nat. Hist., **17**, (111).

CHARACINIDAE.

Abramites gen. n. type *Leporinus hypselonotus* Gthr., FOWLER, Philadelphia, Proc. Acad. Nat. Sci., **58**, (331).

Alestes rhodopleura sp. n. L. Tanganyika, BOULENGER, London, Trans. Zool. Soc., **17**, (547, pl. xxx).

Alestes sadleri sp. n. Lake Victoria, BOULENGER, Ann. Mag. Nat. Hist., **17**,

(435).—*A. poptae* sp. n. Congo, PELLEGRIN, Bul. Muséum, **1906**, (366).

Anodus elongatus, described and figured, FOWLER, Philadelphia, Proc. Acad. Nat. Sci., **58**, (306).

Astyanax chapadac sp. n. Brazil, Paraguay R., *finilimus*, *bartletti*, *pectinatus*, *manaxrellianus*, *diaphanus*, *phoenicopterus*, *ipanquianus*, figured and described, FOWLER, T.c. (349).—*A. atahualpianus* sp. n. Peru, and many spp. figured and described, FOWLER, T.c. (436).—*A. eigenmanni* sp. n. Rio Primero, Argentina, EVERMANN and KENDALL, Washington, U. S. Nation. Mus. Proc., **31**, (83).

Belonocharax gen. n. *beani* sp. n. Rio Atrato basin from Isthmus of Darien, FOWLER, Philadelphia, Proc. Acad. Nat. Sci., **58**, (464).

Chilomyzon subgen. n. *Prochilodus steindachneri* sp. n., FOWLER, T.c. (309).

Chirodon pulcher Gill, redescribed and figured, REGAN, London, Proc. Zool. Soc., **1906**, **1**, (385).

Copeina gen. n. type *Pyrhulina argyrops*, FOWLER, Philadelphia, Proc. Acad. Nat. Sci., **58**, (294).

Corynopoma rüsi, redescribed and figured, REGAN, London, Proc. Zool. Soc., **1906**, **1**, (382).

Cosanoxyron gen. n. type *Chalcinus culter* Cope, FOWLER, Philadelphia, Proc. Acad. Nat. Sci., **58**, (450).

Curimata copei sp. n. Surinam, *cyprinoides*, *trachystethus*, *schomburgkii*, *spilura*, figured, FOWLER, T.c. (301).

Curimatus argenteus Gill, redescribed and figured, REGAN, London, Proc. Zool. Soc., **1906**, **1**, (385).

Cyphocharax subgen. n. (*Curimata*), FOWLER, Philadelphia, Proc. Acad. Nat. Sci., **58**, (293-351).

Cyrtrocharax gen. n. type *Anacyrus limaesquamis* Cope, FOWLER, T.c. (454).

Distichodus toutcei sp. n. Niger, PELLEGRIN, Paris, Bul. soc. zool., **31**, (109); Bul. Muséum, Paris, **1906**, (472).

Eigenmannina gen. n. type *Anodus melanopogon* Cope, FOWLER, Philadelphia, Proc. Acad. Nat. Sci., **58**, (307).

Garmanina subgen. n. (*Rhytiodus*), FOWLER, T.c. (293-351).

Hemiodopsis subgen. n. type *Hemiodus microlepis*, FOWLER, T.c. (318).

Nannacharax parvus sp. n. Ogôoué, PELLEGRIN, Bul. Muséum, Paris, **1906**, (469).

Ophiocephalops subgen. n. (*Erythrinus*), FOWLER, Philadelphia, Proc. Acad. Nat. Sci., **58** (293).

Pellegrinina gen. n., *heterolepis* sp. n., probably W. Africa, FOWLER, T.c. (442).

Pellapleura subgen. n. (*Curimata*), FOWLER, T.c., (293-351).

Petersius brumpti sp. n. Congo, PELLEGRIN, Bul. Muséum, **1906**, (366).

Piabuca, dentition, a new generic character, ROWNTREE, Ann. Mag. Nat. Hist., **17**, (240-243).

Pithecocharacinae nom. n. (*Anostominae* Auct.). FOWLER, Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, (293-351).

Pithecocharax gen. n. type *Salmo anostomus* Linn., *P. ucayalensis* sp. n. Peruvian Amazon, FOWLER, T.c. (319).

Poecilosomatops subgen. n. type (*Characidium*) *etheostoma* Cope. FOWLER, T.c. (323).

Prochilodus caudifasciatus sp. n. Rio Perené, Peru, STARKS, Washington, U. S. Nation. Mus. Proc., **30**, (773).—*P. steindachneri*, Brazil, *theraponura* Ambyracu R., Ecuador, *amazonensis* Lower Amazons, spp. n. *cephalotes*, *ortonianus* figured. FOWLER, T.c. (309).

Reganina gen. n. type *Myeletes bidens* Ag. FOWLER, T.c. (475).

Sealina gen. n. type *Myeletes lippincottianus* Cope, FOWLER, T.c. (478).

Starksina gen. n. type *Myeletes herniarius* Cope, FOWLER, T.c. (476).

Steindachnerina subgen. n. (*Curimata*). FOWLER, T.c. (293-351).

Tetragonopterus guppyi sp. n. Trinidad, *T. taehierus* Gill and *unilineatus* Gill redescribed and figured, REGAN, London, Proc. Zool. Soc., **1906**, **1**, (383-385).

MALACOPTERYGII.

A review of the herring-like fishes of Japan. JORDAN and HERRE, Washington, U. S. Nation. Mus., Proc., **31**, (613-645).

STOMIATIDAE.

Astronesthes elucens sp. n. Atlantic, BRAUER, Wiss. Ergebn. D. Tiefsee-Exp., **15**, (31).

Dactylostomias indicus sp. n. India. BRAUER, T.c. (58).

Idiacanthus atlanticus sp. n. Atlantic, BRAUER, T.c. (62).

Stomias valdiviae sp. n. Atlantic India, BRAUER, T.c. (48).

SALMONIDAE.

Salmonidae, in Finnish and N. Swedish river, a statistical contribution to the biology of the family, NORDQUIST, Fennia, Helsingfors, **22**, (1-58, plates and tables).

Salmoniculture et Argules. LÉGER, Ann. Univ. Grenoble, Paris, **18**, (49-55, av. fig.).

[*Bathylagus gracilis* sp. n., *curyops* var. n. *latifrons*, Antarctic, LÖNNBERG, Wissensch. Ergebn. Schwed. Südpol. Exp., **5**, 1905, (67).]

Coregonus gracilior sp. n. Derwent-water and Bassenthwaite Lakes, REGAN, Ann. Mag. Nat. Hist., **17**, (181).—*C. ussuriensis* sp. n. Amur, BERG, Zool. Anz., **30**, (396).—*C.*, reproduction artificielle, CRETIEZ, Paris, C.-R. ass. franç. avanc. sci., **35**, (118-119).

Salmo whitei, roosevelti, spp. n. California, EVERMANN, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, ().—*S. salar*, smolt to grilse stage, CALDERWOOD, Edinburgh, Proc. R. Soc., **26**, (321).—*S. salar*, der junge Lachs und seine Wanderung, DAHL, Bergen, Norsk Fisket., **25**, (522-529).

Salmo, food, JUDAY, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (43-49).—*S. ischchan* Kessl., *gegarkuni* Kessl. u. *danilewski* Gul. Goktscha-See, Lebensweise, GRIMM, Väst. rybopromysl., **21**, (513-520).—*S. fario*, supernumerary eyes in embryo, GEMMILL, London, Proc. Zool. Soc., **1906**, **1**, (449).—*S. fario* L., Fressgier, KOHAUT, Termt. Közl., **38**, (637).—*S. fario*, Biologie, Brut, HEIN, Allg. Fischereiztg, München, **31**, (217-224, 239-313).

ALEPOCEPHALIDAE.

Aleposomus lividus (21), *medus* (22), spp. n. India, BRAUER, Wiss. Ergebn. D. Tiefsee-Exp., **15**.

Aulastomatomorpha, skull (306), *A. coeruliceps* sp. n. G. of Oman 1005 f. (308), LLOYD, Ann. Mag. Nat. Hist., **18**.

Nareetes affinis sp. n. Gulf of Oman 1005 f., LLOYD, T.c. (308-309).

Platyroctes procerus sp. n. Atlantic, BRAUER, Wiss. Ergebn. D. Tiefsee-Exp., **15**, (23).

CLUPEIDAE.

Clupeidae of freshwaters of tropical Africa. Key, BOULENGER, London, Trans. Zool. Soc., **17**, (517).

Systematische Stellung und einige allgemeine Gesichtspunkte zur Klassifikation der Heringe, ANTIPA, Wien, Denkschr. Ak. Wiss., **78**, (1-56, 3 Taf.).

Alosa nordmanni sp. n. Donau; ANTIPA, Wien, Denkschr. Ak. Wiss., **78**, (26).—*A. fontica* var. n. *danubii*, *nigrescens* var. n. *russac*, ANTIPA, T.c. (17).—*A. finla* var. *lacustris*, o Agone: . . . Epizoozia, MAZZARELLI, Acquistura lombarda, **7**, 1905. (113-189, con 2 tav.).

Clupea; Arten des Kaspischen Meeres, Wanderungen, Laichen. КНИПОВИТСИ, Arbeiten der Kaspischen Expedition im J. 1901. Bd. 1. St. Petersburg, 1906, (1 + I-104); deutsches Rés., (105-114, mit 2 Karten).—*C. engrauliformis* sp. n., Kaspisches Meer, BOROMY, Věst. rybopromyšl., St. Petersburg, **21**, (197-203); deutsches Rés., (204).—*C. sulinae* sp. n. Schwarzes Meer, ANTIPA, Wien, Denkschr. Ak. Wiss., **78**, (37).—*C. durbanensis* sp. n. REGAN, Ann. Natal Govt. Mus., **1**, pt. 1, (4. pl. iv).—*C. kessleri*, künstliche Befruchtung, ARNOLD, Věst. rybopromyšl., **21**, (478-480).—*C. kessleri*, Wanderung und Laichen in der Wolga, BAŽENOV, T.c. (118-135).—*C. harengus*, growth and age, FULTON, Glasgow, Rep. Fish. Board, **24**, (293).—*C. harengus*, reproductive condition in winter. CARLIGAN and CARNARVON BAYS, JOHNSTONE, Liverpool, Proc. Trans. Biol. Soc., **20**, (232-251).—*C. harengo*, change in habits, WARREN, Zoologist, **10**, (105).

Harengula sardina and *humeralis* figured. FOWLER, Philadelphia, Proc. Acad. Nat. Sci., **58**, (83).

Jenkinsia stolifera, described and figured, FOWLER, T.c. (81).

Pellonula miodon sp. n. L. Tanganyika, BOULENGER, London, Trans. Zool. Soc., **17**, (546, pl. xxx).

Sardina dobrogica, *euxina*, spp. n. Küste von Constanza, ANTIPA, Wien, Denkschr. Ak. Wiss., **78**, (45).

ENGRAULIDAE.

Anchovia choerostoma cayorum subsp. n., FOWLER, Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, (77-113).—*A.*

choerostoma cayorum subsp. n. Florida Keys, FOWLER, T.c. (85).—*A. apiensis erermanni* spp. n., JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-155).

Engraulis enerasicholus, Yarmouth, PATTERSON, Zoologist, **10**, (435).—*E. enerasicholus*; observations sur un banc d'Anchois rencontré près de l'île Cabrera (Baléares). RACOVITZA, Paris, Bul. soc. zool., **1904**, (211-218).

PANTODONTIDAE.

†*Pantodon*; ABEL, Wien, Jahrb. Geol. Reichsanst., **56**, 1906, (1-88, mit 3 Taf.).

OSTEOGLOSSIDAE.

Scleropages formosum, incubation buccale, FUHRMANN, Arch. Sci. Phys. Genève, **21**, (219).

MORMYRIDAE.

Eine alte Afrikanerfamilie [*Mormyridae*]. PAPPENHEIM, Aus d. Natur, Stuttgart, **2**, 1906, (340-344).

Hippopotamyrus gen. n., *castor* sp. n. Kamerun, PAPPENHEIM, Berlin, SitzBer. Ges. natf. Freunde, **1906**, (260).

Mareusenius batesii sp. n. South Cameroon, BOULENGER, Ann. Mag. Nat. Hist., **18**, (36-37).—*M. tanganicus* sp. n. L. Tanganyika, BOULENGER, London, Trans. Zool. Soc., **17**, (545, pl. xxx).—*M. nigricans* sp. n. Lake Victoria, BOULENGER, Ann. Mag. Nat. Hist., **17**, (434).

Mormyrus oxyrhynchus, elektrisches Organ, SCHLICHTER, Zs. wiss. Zool., **84**, (479-525, mit 3 Taf.).

Petrocephalus degeni sp. n. Lake Victoria, BOULENGER, Ann. Mag. Nat. Hist., **17**, (434).

PHOLIDOPHORIDAE.

†*Gigantopterus* gen. n., *telleri* sp. n. oberes Trias der Alpen, ABEL, Wien, Jahrb. Geol. Reichsanst., **56**, (1-88, mit 3 Taf.).

†*Thoracopterus niederristi* Bronn. ABEL, l.c.

GANOIDEI.

Neue Wirbeltierfunde aus dem Devon von Wildungen. JAEKEL, Berlin, SitzBer. Ges. natf. Freunde, **1906**, (73-85).

HOLOSTEI.

†*Acentrophorus* aus dem Kupferschiefer von Eisleben, FRITSCH, Halle, Abh. natf. Ges., **24**, (pl. xi).

Amia see *Amiatus*.

Amiatus Rafinesque = *Amia* Linnaeus as *Amia* is preoccupied, see p. 48. JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (237).

†*Dollopterus* **gen. n.** for *Dolichopterus volitans* Compter, ABEL, Wien, Jahrb. Geol. RechsAnst., **56**, (1-88, mit 3 Taf.).

Elonichthys sweeti (17), *gibbus* (22), **spp. n.** Carboniferous, Victoria, WOODWARD, Mem. Nat. Mus., Melbourne, **1**.—*E. denticulatus* **sp. n.** Pendleside series, Holywell, TRAQUAIR, Geol. Mag., London (dec. 5), **3**, (556-558, text figg.).

†*Mesodon barnesi* **sp. n.** Portland stone. WOODWARD, Dorchester, Proc. Dorset. Nat. Hist. F. Cl., **27**, (183).

Pappichthys patagonica **sp. n.** fossil, Patagonia, AMEGHINO, Buenos Aires An. Mus., **15**, (183).

CHONDROSTEI.

A synopsis of *Acipenseridae* of Japan, JORDAN and SNYDER. Washington, U. S. Nat. Mus., Proc., **30**, (397-398).

Acipenser güldenstädtii und *A. huso*, Wanderungen, Kreuzung, BAZENOV, (1-6).—*A. mudiventris* Lovetzky, Leben im Syr-Darja, GRÜNBERG, Russ. sudochod., **20**, (86-91).—*A. ruthenus*, Entwicklungsgeschichte, Kopfmymomeren, OSTROUMOFF, Zool. Anz., **30**, (275-278, 496-498).—*A. ruthenus*, habits, &c., ROZWADOWSKI, Okóln. Tow. ryb., **1906**, (155-159, 185-187).—*A. schyppa*, habits, ROZWADOWSKI, T.c. (26-29).—*A. sturio* mit 3 Ovarien, GR[IMM], Věst. rybopromysl., **21**, (287).

Ganorhynchus sussmilchi **sp. n.** Devonian, Murrumbidge R., ETHERIDGE, Sydney, N.S.W., Rec. Austr. Mus., **6**, (129).

Myriolepis hibernica Traq. redescribed and figured, WOODWARD, Ann. Mag. Nat. Hist., **18**, (416-419, pl. x).

DIPNEUSTI.

Arthrodira; Mechanism and homologies of jaws, relationship of group and its evolution in N. America; HUSSAKOF, New York, N.Y., Mem. Amer. Mus. Nat. Hist., **9**, (106).

Ceratodus, Entstehung der Kiemen-darmderivate, GREIL, Anat. Anz., Ergll., (115-131).—*C. forsteri*, habits, DEAN, London, Proc. Zool. Soc., **1906**, **1**, (168).—†*C. arus* **sp. n.**, tooth from Lower Jurassic, Victoria, Australia, WOODWARD, Ann. Mag. Nat. Hist., **18**, (1-3, pl. i).

Ctenodus breviceps **sp. n.** Carboniferous Victoria, WOODWARD, Mem. Nat. Mus. Melbourne, **1**, (15).

Lepidosiren and *Protopterus*, spiracular gill cleft, AGAR, Anat. Anz., **28**, (298).

Lepidosiren; skull and visceral arches, development, AGAR, Edinburgh, Trans. R. Soc., **45**, (49).—*L. paradoxa*, Zahl und Grossenverhältnisse der Chromosomen, MURRAY, Anat. Anz., **29**, (203-208).—*L. paradoxa*, MERCIAM, Riv. ital. sc. nat., Siena, **26**, (59).

†*Mylostoma*; structure and relations, EASTMAN, Cambridge, Mass., Bull. Mus. Harvard, **50**, (1-30, 5 pls.).

Protopterus, skull and visceral arches, development, AGAR, Edinburgh, Trans. R. Soc., **45**, (49).—*P. annectens*, capsule surrenali e simpatico. GIACOMINI, Roma, Rend. Acc. Lincei, **15**, (394-398).

CROSSOPTERYGII.

†*Coelacanthopsis* **gen. n.**, *curta* **sp. n.** Lower carboniferous, E. Fifeshire, TRAQUAIR, Edinburgh, Proc. R. Physic. Soc., **16**, (84, pl. v).

Strepsodus decipiens **sp. n.** Carboniferous Victoria, WOODWARD, Mem. Nat. Mus. Melbourne, **1**, (17).

OSTRACOPTERYGII.

Bothriolepis major, *obesa*, *leptocheirus*, *hydrophila*, *macrocephala* and *cristata* described and figured, TRAQUAIR, London, Monogr. Palaeont. Soc., **1906**, **40**, (119-130, 6 pls.).

†*Thyestes magnificus* **sp. n.** Silurian mudstones, Wombat Creek, CHAPMAN, Melbourne, Proc. R. Soc. Vict., **18**, (93).

CHONDROPTERYGII.

Chimaeroid fishes and their development. [With bibliography.] DEAN, Washington, D.C., Carnegie Institution, Publication No. 32, (1-194, 1 pl.).

(Genera and families of the Chimaeroids. GARMAN, Cambridge, Mass., Proc. New Engl. Zool. Cl., **2**, 1901, (75-77).)

HOLOCEPHALI.

[*Chimaera (Bathyloperx) mirabilis* sp. n. Faroe channel, 1,200 m., COLLEIT, Kristiania, Forh. Vid. selsk., **1904**, 1905, No. 9, (5).]

†*Utenacanthus bellus* sp. n. BRANSON, Indiana, Rep. Dept. Geol. Nat. Res., **30**, (1376-1394).

Edaphodon bucklandi var. *elongatus* var. n. Éocène, Belgique, LERICHE, Mém. Mus. Belgique, **4**, (138).

Ischyodus; fin spine, new, probably belonging to *I. townsendi*. Portland stone, WOODWARD, Dorchester, Proc. Dorset Nat. Hist. F. Cl., **27**, (181).

†*Phlyctacanthus telleri*, TELLER, Milwaukee, Bull. Wis. Nat. Hist. Soc., **4**, (162-167, pl.).

†*Ptyctodus castmani* sp. n., WELLER, St. Louis, Mo., Trans. Acad. Sci., **16**, (162).

PLAGIOSTOMI.

Selachii, classification, REGAN, London, Proc. Zool. Soc., **1906**, **2**, (722).

Membranous labyrinth of certain Selachii, STEWART, London, J. Linn. Soc., **29**, (407); **29**, (439).

Note complémentaire sur la morphologie du rein des Elasmobranches. BORCEA, Paris, Bul. soc. zool., **29**, 1904, (209-210).

Considérations sur l'appareil urinaire des Elasmobranches. BORCEA, Paris, Bul. soc. zool., **29**, 1904, (143-148).

Beobachtungen am lebenden Selachierauge. FRANZ, Jenaische Zs. Natw., **41**, (129-171).

Recherches sur le système urogénital des Elasmobranches. BORCEA, Arch. zool., Paris, (Ser. 4), **4**, (199-484, av. pl.).

Zur Entwicklungsgeschichte niederer Haie. Notizen über Vorkommen im Mittelmeer, Taxonomie, Eier und Eihüllen dieser Fische. BRAUS, Berlin, SitzBer. Ak. Wiss., **1906**, (907-932).

Sharks' teeth and cetacean bones, EASTMAN, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **50**, (73-98, 4 pls.).

Signification choroidienne du sac vasculaire, GENTÈS, Paris, C.-R. soc. biol., **60**, 1906, (101-103); Réunion. biol., Bordeaux, **1906**, (5-7).

Acanthidium rostratum, *hystriocosum*, *aciculatum* spp. n., GARMAN, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**, (201-208).

†*Acanthodes australis* sp. n. Carboniferous, Victoria, WOODWARD, Mem. Nat. Mus. Melbourne, **1**, (12).

†*Aerodus alexandrae*, *oreodontus* spp. n., WEMPLE, Berkeley, Univ. Cal. Pub. Dept. Geol., **5**, (72).—*A. basalduai*, *rothi*, *trelewensis*. spp. n., fossil, Patagonia, AMEGHINO, An. Mus., Buenos Aires, **15**, (177).

Alopius vulpes, 16 ft. in length, off Donegal coast, SCHARFF, Irish Nat., Dublin, **15**, (156).

Aprionodon woodwardi sp. n. Éocène Belgique, LERICHE, Mém. Mus. Belgique, **3**, (134).

Brachioptera gen. n., *rhinoceros* sp. n. Indian Ocean, GRATZIANOW, Zool. Anz., **30**, (400-401).

†*Carcharia miqueli pervinquieri*, *blayaci*, *ficheuri* spp. n., terrains néogènes France, JOLEAUD, Avignon, Mém. Acad., **6**, (329).—*C. brachyurus* (Gunther, habits, WAITE, Sydney, N.S.W., Rec. Austr. Mus., **6**, (226, pl.).

Catulus analis Ogilby, oviposition, WAITE, T.c. (228).

(*Catulus labiosus* sp. n. Freemantle, WAITE, Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (57, fig.)).

Centrina vulpescula Bel. KÜNSTLER et CHAINE, Arcachon. Trav. soc. sci. station biol., **8**, (120-125, av. fig.).

Centrophorus bragancae sp. n. Portuguese coast deepwater, REGAN, Ann. Mag. Nat. Hist., **18**, (438).—*C. acus*, *trassellatus*, spp. n., GARMAN, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**, (201-208).—*C. calceus*, anatomy, WOODLAND, London Proc. Zool. Soc., **1906**, **2**, (865).

Centroscymnus owstonii sp. n., GARMAN, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**, (201-208).—*C. macranthus* Magellan, *cryptacanthus* Madeira, spp. n., REGAN, Ann. Mag. Nat. Hist., **18**, (436-438).

Cestracion amboinensis sp. n. Amboyna, REGAN, T.c. (436).—*C. vincenti*

sp. n. Éocène Schaerbeek, LERICHE, Mém. Mus. Belgique, **3**, (74, 112).

†*Chamaetodus luesrillensis* **sp. n.**, BRANSON, Indiana, Rep. Dept. Geol. Nat. Res., **30**, (1376-1394).

Chimaera, cranial nerves, COLE and DAKIN, Anat. Anz., **28**, (595-599).

Chlamydoselachus anguineus, nerves, cranial and spinal, HAWKES, London, Proc. Zool. Soc., **1906**, 2, (959).

†*Cladodus indianensis, striatus* **spp. n.**, BRANSON, Indiana, Rep. Dept. Geol. Nat. Res., **30**, (1376-1394).—*C. unicuspidatus* **sp. n.** Lower carboniferous, F. Fife-shire, TRAQUAIR, Edinburgh, Proc. R. Physic. Soc., **16**, (83, pl. v).

†*Corax rothi* **sp. n.** fossil. Patagonia, AMEGHINO, An. Mus., Buenos Aires, **15**, (182).

†*Deltodus attenuatus* **sp. n.** Carboniferous, BRANSON, Chicago, Ill., J. Geol., **13**, 1905, (29, pl. 1).

†*Desmodius salemensis* **sp. n.**, BRANSON, Indiana, Rep. Dept. Geol. Nat. Res., **30**, (1376-1394).

[*Etmopterus princeps* **sp. n.** Faroe Channel 1200 m., COLLETT, Kristiania, Forh. Vid. Selsk., **1904**, 1905, No. 9, (3).]

†*Gyracanthides murrayi* **sp. n.** Carboniferous Victoria, WOODWARD, Mem. Nat. Mus. Melbourne, **1**, (4).

†*Helodus robustus, elegantulus, ornatus, H. (?) minutus* **spp. n.**, BRANSON, Indiana, Rep. Dept. Geol. Nat. Res., **30**, (1376-1394).

Hemigaleus pectoralis **sp. n.**, GARMAN, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**, (201-208).

Heptanchus, embryonaler Kiemenaparat, BRAUS, Anat. Anz., **29**, (545-560).

Himantura fai **sp. n.**, JORDAN and SEALE, Washington, D.C., Dept. Comm. Lab., Bull. Bur. Fish., **25**, (173-155).

†*Hybodus nevadensis, shastensis* **spp. n.**, WEMPLE, Berkeley, Univ. Cal. Pub. Dept. Geol., **5**, (73).

Lamna vineenti var. *inflata* var. *n.* LERICHE, Mem. Mus. Belgique, **3**, (76, 127).

†*Myliobatis* **sp.** fossil tooth, Tokyo neighbourhood, TOKUNAGA, Tokyo J. Coll. Sci., **21**, (72, pl. vi).

†*Myriacanthus paradoxus* new specimen described and figured, WOODWARD, London, Q. J. Geol. Soc., **62**, (125).

†*Odontaspis ferox* Rissosp. var. *n. bartschgoi*, terrains néogènes France, JOLEAUD, Avignon, Mém. Ac., **6**, (335).—*O. winkleri* **sp. n.** Éocène Belgique, LERICHE, Mém. Mus. Belgique, **3**, (74, 117).

Orectolobus japonicus **sp. n.** Japan and China coasts, REGAN, Ann. Mag. Nat. Hist., **18**, (435).

†*Orodus simplex* **sp. n.**, BRANSON, Indiana, Rep. Dept. Geol. Nat. Res., **30**, (1376-1394).

[*Oxyrhina patagonica* **sp. n.** fossil Patagonia, AMEGHINO, An. Mus., Buenos Aires, **15**, (179).

Parascyllium collare, Ramsay and Ogilby, Oviposition, WAITE, Sydney, N.S.W., Rec. Austr. Mus., **6**, (229).

Parmaturus **gen. n. pilosus **sp. n.** GARMAN, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**, (201-208).**

Planerocephalus [error for *Planerocephalus*] **gen. n., ellioti **sp. n.** Indian Ocean, GRATZIANOW, Zool. Anz., **30**, (403-404).**

Pliotrema **gen. n. warreni **sp. n.** REGAN, Ann. Natal Govt. Mus., **1**, pt. 1.**

Pristis clarata **sp. n.**, GARMAN, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**.

Psephodus legrandensis, acutus, carbonarius, **spp. n.**, Carboniferous, BRANSON, J. Geol., Chicago, Ill., **13**, 1905, (24, pl. 1.)

Pristiophorus cirratus, foetus, STEAD, Zool. Anz., **30**, (822-823).

[*Pristiurus melanostomus* **sp. n.** Faroe Channel 1200m, COLLETT, Kristiania, Forh. Vid. Selsk., **1904**, 1905, No. 9 (4).]

†*Pseudoceros* **gen. n. patagonensis **sp. n.**, type of genus *Aerodus paranensis* Alexandri, AMEGHINO, An. Mus., Buenos Aires, **15**, (176).**

†*Ptychodus resti*, PANTANELLI, Modena, Atti. Soc. nat. mat., **7**, (36).—*P. eastmani* **sp. n.**, Devonian Missouri, WELLER, St. Louis, Mo., Trans. Acad. Sci., **16**, 1906, (462).

Raia ocellifera **sp. n.**, REGAN, Ann. Natal Govt. Mus., **1**, pt. 1, (2, pl. ii).—*R. rhizacanthus* **sp. n.**, REGAN, T.c. pt. 1, (3, pl. ii).—*R. philipi* Gulf of Aden

130 f., *reversa* Arabian Sea 820 f., **spp. n.**, LLOYD, Ann. Mag. Nat. Hist., **18**, (309-311).—*R. batis*, accessory fins, RENNIE, Anat. Anz., **28**, (428-431).—*R. clavata*, arrested development, JOHNSTONE, Liverpool Proc. Trans. Biol. Soc., **20**, (330-334).

†*Raja gentili* **sp. n.** terrains néogènes France, JOLEAUD, Avignon, Mém. Ac., **6**, (337).

†*Rhynchobatus mayeri* **sp. n.** terrains néogènes France, JOLEAUD, Avignon, Mém. Ac., **6**, (337).

†*Sandalodus convolutus* **sp. n.**, BRANSON, Indiana, Rep. Dept. Geol. Nat. Res., **30**, (1370-1391).—*S. emarginatus, porcatus, latidens*, **spp. n.**, BRANSON, J. Geol., Chicago, Ill., **13**, 1905, (29, pl. i).

Scylliorhinus indicus **sp. n.** India, BRAUER, Wiss. Ergebn. D. Tiefsee-Exp., **15**, (8).

Scyllium; Entwicklung und Doppelei, JOSEPH, Anat. Anz., **29**, (367).—*S. canicula*, abnormal specimen, MUDGE, Zool. Anz., **30**, (278-280).—*S. canicula*, influence des rayons du radium sur le développement, TUR, Arch. zool., Paris, (sér. 4), **5**, (Notes et revues, xxxix-xlviii, av. fig.).

Scymnus liebia preso nell'Adriatico, Trois, Venezia, Atti. Ist. ven., **65**, (Ser. viii, **8**), (65-68).

Selache maxima testè avuta dal Museo zool. di Roma, CARRUCCIO, Boll. Soc. zool. ital., (ser. 2), **6**, (191-202).

†*Sphenacanthus fifensis* **sp. n.** Lower carboniferous, E. Fifeshire, TRAQUAIR, Edinburgh, Proc. R. Physic. Soc., **16**, (83, and pl. v).

Squatina australis, S. Australia and Tasmania, *nebulosa*, Japan, **spp. n.** REGAN, Ann. Mag. Nat. Hist., **18**, (438-440).

Torpedo; Centralnervensystem, BORCHERT, Morph. Jahrb., Leipzig, **36**, (52-81, mit 3 Taf.).—*Torpedo*; elektrisches Organ, BERNSTEIN, TSCHERMAK, Arch. ges. Physiol., **112**, (439).—*T. marmorata*, accessorische Nebennieren, ZUCKERKANDL, Anat. Hefte, Abt. 1, **31**, (219-232, mit 2 [1] Taf.).—*T. ocellata*, regione parafisaria del telencefalo etc. in embrioni, CHIARUGI, Arch. ital. Anat. Embriol., Firenze, **5**, (359-375, con. 3 tav.).—*T. ocellata*, embryologische Studien, GUTHKE, Diss. Jena, 1906, (61).—*T. ocellata*, Ganglien

und Nerven des Kopfes, GUTHKE, Jenaische Zs. Natw., **42**, (1).

Trygon jackeli **sp. n.** Éocène Belgique, LERICHE, Mém. Mus. Belg., **3**, (100).

CYCLOSTOMI.

The unity of the Gnathostome type, AYERS, Amer. Nat., **40**, (75).

Ammocoetes branchialis, terminazioni nervose nei muscoli striati, FUSARI, Arch. sc. med., Torino, **29**, 1905, (413-427, con 1 tav.).—*A. branchialis*, nervi cutanei e terminazioni nervose nella cute e nella mucosa orale, FUSARI, op. cit., **30**, (600-610, con 1 tav.).—*A. branchialis*, étude histologique et cytologique sommaire de l'organe improprement nommé corps thyroïde, RENAULT et POLICARD, C.-R. ass. anat., 1906, (59-68, av. fig.).

Bdellostoma stouti, development of thyroid gland, STOCKARD, Anat. Anz., **29**, (91-99).

Caspiomyzon **gen. n.** pro *Petromyzon wagneri* Kessl., BERG, St. Petersburg, Bull. Ac. Sc., **24**, (169-183).

Myxine; Schilddrüse, Berichtigung, SCHAEFER, Anat. Anz., **28**, (65-73).—*M.* skeleton, anatomy and histology, COLE, Edinburgh, Trans. R. Soc., **41**, (749).—*M. glutinosa*, Gehirn, EDINGER, Berlin, Abh. Ak. Wiss., **1906**, Anhang, (1-36, mit 3 Taf.).

Petromyzon; Gehörorgan, KRAUSE, Anat. Anz., **29**, ErgH., (257-265).—*P.* cranial nerve components, JOHNSTON, Morph. Jahrb., Leipzig, **34**, 1905, (149-203, mit 1 Taf.).—*P. kussleri* Anik. = *Lampetra planeri*, BERG, St. Petersburg, Bull. Ac. Sc., **24**, (169-183).

INCERTAE SEDIS.

Deleastes **gen. n.**, *ductor* **sp. n.** SEALE, Honolulu, H.I., Occ. Paprs., B. P. Bishop Mus., **4**, (1-89).

†*Eucentrurus* **gen. n. paradoxus** **sp. n.** Lower Carboniferous E. Fifeshire, TRAQUAIR, Edinburgh, Proc. R. Physic. Soc., **16**, (85 pls.).

LEPTOCARDII.

The record of this group is now transferred to Protochordata, *q. v.*

XVI. REPTILIA AND BATRACHIA

ARRANGED BY

I. B. J. SOLLAS

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Adams, L. E. Pugnacious propensities of *Rana esculenta*. Zoologist, London, **10**, 1906, (154–155).

Adolphi, H[ermann]. Ueber das Verhalten von Schlangenspermien in strömenden Flüssigkeiten. Anat. Anz., Jena, **29**, 1906, (148–151).

Aiyar, T. V. R. Notes on some sea-snakes caught at Madras. Calcutta, J. As. Soc. Beng., **2**, No. 3, 1906, (69–72).

Alcock, N. H. The action of anaesthetics on living tissues. Pt. II. The frog's skin. London, Proc. R. Soc., B. **78**, 1906, (159–169).

Allen, Bennet M. The origin of the sex-cells of *Chrysemys*. Anat. Anz., Jena, **29**, 1906, (217–236).

(**Alluaud, Ch.** Complément à la communication de M. Racovitza sur le grand serpent de mer. Paris, Bul. soc. zool., **28**, 1903, (317).)

Ameghino, Florentino. Les formations sédimentaires du Crétacé supérieur et du tertiaire de Patagonie. An. Mus. Nac., Buenos Aires, Ser. 3, **8**, 1906, (1–568, 3 pls.).

Andersson, L. G. On Batrachians from Bolivia, Argentina, and Peru, collected by Erland Nordenskiöld, 1901–1902, and Nils Holmgren, 1904–1905. Ark. Zool., Stockholm, **3**, 1906, No. 12, (1–19, 1 pl.).

Andrews, C. W. **1.** A descriptive catalogue of the Tertiary vertebrata of the Fayûm Egypt; based on the collection of the Egyptian Government in the Geological Museum, Cairo, and on the

collection in the British Museum (Natural History). London, 1906, (xxxvii + 324, 26 pls.).

Andrews, C. W. **2.** Notes on some new crocodilia from the Eocene of Egypt. Geol. Mag., London, **2**, 1905, (481–484).

Anglas. **1.** Observations sur les métamorphoses internes des batraciens anoures. Paris, Bull. ass. franç. l'avanc. sci., **1904**, (264–265).

Anglas, J. **2.** Observations sur les métamorphoses internes des batraciens anoures. Paris, C.-R. ass. franç. avanc. sci., **33**, Grenoble, 1904, 2^e Partie, 1905, (855–866).

Annandale, N. **1.** New and interesting Lizards in the Colombo Museum. Spolia Zeylanica, **3**, 1906, (189–193).

Annandale, N. **2.** Contributions to Oriental Herpetology. No. IV. Notes on the Indian tortoises. Calcutta, J. As. Soc. Beng., **2**, 1906, (203–206).

Annandale, N. **3.** A new Gecko from the Eastern Himalayas. Calcutta, J. As. Soc. Beng., **2**, 1906, (287–288).

Annandale, N. **4.** Notes on the Freshwater Fauna of India. No. VIII. Some Himalayan tadpoles. Calcutta, J. As. Soc. Beng., **2**, 1906, (289–292).

Arthaber, Gustav von. Beiträge zur Kenntnis der Organisation und der Anpassungserscheinungen des Genus *Metriorhynchus*. Wien, Beitr. Pal. Geol. OestUng., **19**, 1906, (287–320, mit 6 Taf.).

Austen, E. E. Behaviour of toads when confronted by a snake. Spolia Zeylanica, **4**, 1906, (32).

Babak, Edward. **1.** Ueber die morphogenetische Reaktion des Darmkanals der Froschlärve auf Muskelproteine verschiedener Tierklassen. Beitr. chem. Physiol., Braunschweig, **7**, 1905, (323–330).

Babák, E. 2. Experimentelle Untersuchungen über die Variabilität der Verdauungsröhre. Arch. Entw. Mech., Leipzig, **21**, 1906, (611-702).

Bainbridge, F. A. and Beddard, A. P. Secretion by the renal tubules in the frog. Bio-chemical Journal, Liverpool, **1**, 1906, (255).

Ballowitz, E[mil]. 1. Ueber einige Strukturen der Spermien des *Spelerpes fuscus* Bonap. Anat. Anz., Jena, **28**, 1906, (237-240).

Ballowitz, E. 2. Ueber das regelmässige Vorkommen auffällig heteromorpher Spermien im reifen Sperma des Grasfroches *Rana muta* Laur. Zool. Anz., Leipzig, **30**, 1906, (730-737).

Banchi, Arturo. 1. Sulla rigenerazione degli abbozzi del fegato e del pancreas. Ricerche sperimentali sul *Bufo vulgaris*. Archivio ital. Anat. Embriol., Firenze, **5**, (1906), fasc. 4, 1907, (507-532, 3 tav.).

Banchi, A. 2. Sullo sviluppo dei nervi periferici in maniera indipendente dal sistema nervoso centrale. Anat. Anz., Jena, **28**, 1906, (169-176).

Banchi, A. 3. Sviluppo degli arti pelvici innestati in sede anomala. Breve risposta al Prof. Braus. Anat. Anz., Jena, **28**, 1906, (631-633).

Banta, Arthur M. and McAtee, Waldo L. The life history of the cave salamander, *Spelerpes maculicaudus* (Cope). Washington, D.C., Smithsonian Inst., U. S. Nation. Mns., Proc., **30**, 1906, (67-83, pl.).

Barbier, H[enry]. 1. Les Sauriens du Musée d'Histoire naturelle d'Elbeuf. Elbeuf, Bul. soc. étud. sci. nat., **24**, 1906, (43-76).

Barbier, H. 2. Sur la faune erpétologique des environs de Pacy-sur-Eure. Elbeuf, Bul. soc. étud. sci. nat., **24**, 1906, (31-42).

Barbier, H. 3. Réponse à la question de M. le Dr. Bougon relative à la finesse de l'ouïe chez les serpents. Feuille jeunes natural, Paris, sér. 4, **35**, 1905, (62-63).

Barbieri, Ciro. Differenziamenti istologici nella regione ottica del cervello di Teleostei ed Anfibi anuri. Milano, Atti Soc. ital. sc. nat., **44**, 1906, (165-192, con 2 fig. e 1 tav.).

(n-9720 d)

Barbour, Thomas. 1. Reptilia and Amphibia. [Vertebrata from the Savanna of Panama. Papers from the John E. Thayer Expedition of 1904, No. 3.] Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**, 1906, (224-229).

Barbour, T. 2. Additional notes on Bahama snakes. Amer. Nat., Boston, Mass., **40**, 1906, (229-232).

Barbour, T. and Cole, Leon J. Reptilia, Amphibia, and Pisces. Cambridge, Mass., Bull. Mus. Comp. Zool., Harvard Coll., **50**, 1906, (146-159, pl.).

Bardachzi, Franz. Ueber den Blutfarbstoff der *Thalassochelys corticata*. Hoppe-Seylers Zs. physik. Chem., Strassburg, **49**, 1906, (465-471).

Bardeen, C. B. The development of ova of the toad fertilised by spermatozoa which have been exposed to the Roentgen rays. Preliminary note. Brit. Med. J., London, **1906**, 2, (1702).

Bataillon, E. Nouveaux essais sur la maturation de l'œuf chez *Rana fusca*. La segmentation parthénogénésique provoquée par le gel et l'eau distillée. Paris, C.-R. Acad. sci., **143**, 1906, (79-81).

Bath, W. Die Geschmacksorgane der Vögel und Krokodile. Arch. Biont., Berlin, **1**, 1906, (1-47, 5 Taf.).

Beasley, H. C. Notes on foot prints from the Trias in the museum of the Warwickshire Natural History and Archaeological Society at Warwick. London, Rep. Brit. Ass., **1906**, (162-166).

Beddard, A. P. vide Bainbridge, F. A.

Beddard, F. E. 1. Contributions to the anatomy of the *Ophidia*. London, Proc. Zool. Soc., **1906**, (12-44).

Beddard, F. E. 2. Exhibition of and remarks upon a dissected specimen of the lizard *Trachysaurus rugosus* showing abdominal ribs. London, Proc. Zool. Soc., **1906**, (376-377).

Beddard, F. E. 3. Contributions to the knowledge of the vascular and respiratory systems in the *Ophidia* and to the anatomy of the genera *Boa* and *Corallus*. London, Proc. Zool. Soc., **1906**, (499-532).

Beddard, F. E. 4. On the vascular system of *Heloderma*, with notes on that

of the monitors and crocodiles. London, Proc. Zool. Soc., **1906**, (601-625, text figg. 99-106).

Bell, E. T. 1. Experimental studies on the development of the eye and the nasal cavities in frog embryos. (Preliminary communication.) Anat. Anz., Jena, **29**, 1906, (185-194).

Bell, E. T. 2. Experimentelle Untersuchung über die Entwicklung des Auges bei Froschembryonen. Arch. mikr. Anat., Bonn, **68**, 1906, (279-296, mit 1 Taf.).

Bender, O. Zur Kenntnis der Hypermelie beim Frosch. Morph. Jahrb., Leipzig, **35**, 1906, (395-412, mit 1 Taf.); **36**, 1906, (90-91).

Bertarelli, E. Alcune ricerche sulla tubercolosi dei rettili. Archivio sc. med., Torino, **29**, 1905, (187-202, con 1 tav.).

(**Blanchard, R.** Note complémentaire sur une anomalie de la carapace chez le Cistude d'Europe. Paris, Bul. soc. zool., **29**, 1904, (161). [5631 5623].)

Blatchley, W. S. On some reptilian freaks from Indiana. Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, 1906, (419-422).

Bles, E. J. The life history of *Xenopus laevis* Davel. Edinburgh, Trans. R. Soc., **41**, 1906, (789-821, 4 pls.).

Boettger, O. Neues Sinnesorgan bei einem Molche? Zool. Beob., Frankfurt a. M., **47**, 1906, (88).

Bohn, G. et Drzewina, A[nn]. 1. Porównawcze działanie wody morskiej i roztworów soli na larwy płazów. [De l'action comparée de l'eau de mer et des solutions salines sur les larves des batraciens.] Kraków, Rozpr. Akad., **46** B, 1906, (357-378) (Polish); Kraków, Bull. Intern. Acad., **1906**, (293-314) (French and Polish.)

Bottazzi, Fil. Ricerche sulla muscolatura cardiale dell' *Emys europaea*. Zs. allg. Physiol., Jena, **6**, 1906, (140-194, mit 4 [5] Taf.).

Boulenger, G. A. 1. Additions to the herpetology of British East Africa. London, Proc. Zool. Soc., **1906**, (570-573).

Boulenger, G. A. 2. On a new chameleon from Mount Ruwenzori. Ann. Mag. Nat. Hist., London, **18**, 1906, (473).

Boulenger, G. A. 3. Description of a new snake of the genus *Glauconia* from Somaliland. Ann. Mag. Nat. Hist., London, **18**, 1906, (441).

Boulenger, G. A. 4. Description of a new chameleon of the genus *Rhampholeon* from Mashonaland. Ann. Mag. Nat. Hist., London, **18**, 1906, (346-347).

Boulenger, G. A. 5. Description of a new tree-viper from Mount Ruwenzori. Ann. Mag. Nat. Hist., London, **18**, 1906, (37-38).

Boulenger, G. A. 6. Descriptions of new reptiles from Yunnan. Ann. Mag. Nat. Hist., London, **17**, 1906, (567-568).

Boulenger, G. A. 7. Description of a new lizard and a new snake from Australia. Ann. Mag. Nat. Hist., London, **18**, 1906, (440).

Boulenger, G. A. 8. Descriptions of two new lizards from New Zealand. Ann. Mag. Nat. Hist., London, **17**, 1906, (369-371, pl. x).

Boulenger, G. A. 9. Descriptions of new Batrachians discovered by Mr. G. L. Bates in South Cameroon. Ann. Mag. Nat. Hist., London, **17**, 1906, (317-323).

Boulenger, G. A. 10. Exhibition of a specimen of, and remarks upon, a giant frog from Cameroon. London, Proc. Zool. Soc., **1906**, (179).

Boulenger, G. A. 11. Description of two new Indian frogs. Calcutta, J. As. Soc. Beng., **2**, 1906, (385-6).

Boulenger, G. A. 12. Report on the reptiles collected by the late L. Fea in West Africa. Genova, Ann. Museo Civ. st. nat., Ser. 3, **2**, (42), 1905-6, (196-213).

Boulenger, G. A. 13. Report on the Batrachians collected by the late L. Fea in West Africa. Genova, Ann. Museo Civ. st. nat., Ser. 3, **2**, (42), 1905-6, (157-172, 2 pls.).

Brachet, A. Recherches expérimentales sur l'œuf non segmenté de *Rana fusca*. Arch. Entw. Mech., Leipzig, **22**, 1906, (325-341).

Branson, E. B. Structure and relationships of American *Labyrinthodonti-*

dae. J. Geol., Chicago, Ill., **13**, 1905, (568-610).

Braun, Wilhelm. Die Herkunft und Entwicklung des Pankreas bei *Alytes obstetricans*. Morph. Jahrb., Leipzig, **36**, 1906, (27-51, mit 2 Taf.).

[**Brauner, A.**] Браунеръ, А. 1. Третье предварительное сообщение о примающих и земноводных губерний Сувалкейской, Минской, Подольской, Черниговской, Бессарабской, Херсонской, Екатеринославской и Днѣпровскаго уѣзда Таврической. [Dritte Vorläufige Mittheilung über Reptilien und Amphibien der Gouvernements Suwalki, Minsk, Podolsk, Tschernigov, Bessarabien, Cherson, Ekaterinoslav und des Dnjepr-Kreises des Gouv. Taurien.] Odessa, Mém. Soc. nat., **28**, 1905, (201-217).

[**Brauner, A.**] Браунеръ, А. 2. Предварительное сообщение о примающих и земноводных Крыма, Кубанской области, Волынской и Варшавской губерний. [Vorläufige Mittheilung über Reptilien und Amphibien der Krim, des Kubangebiets, der Gouvernements Volhynien und Warschau.] Odessa, Mém. Soc. nat., **28**, 1905, (89-100); deutsches Rés., (101-102).

Braus, Hermann. 1. Vordere Extremität und Operculum bei *Bombinator*-larven. Ein Beitrag zur Kenntnis morphogener Correlation und Regulation. Morph. Jahrb., Leipzig, **35**, 1906, (509-590, mit 3 Taf.).

Braus, H. 2. A. Banchi Florenz und seine Gliedmassentransplantationen bei Anurenlarven. Anat. Anz., Jena, **28**, 1906, (365-368).

Braus, H. 3. Ueber das biochemische Verhalten von Amphibienlarven. Arch. EntwMech., Leipzig, **22**, 1906, (564-580).

[**Brimley, C. S.** 1. Notes on the scutellation of the red king snake *Ophibolus dolius coccineus* Schlegel. Chapel Hill, N.C., J. Elisha Mitchell Sci. Soc., **21**, 1905, (145-148).]

[**Brimley, C. S.** 2. Notes on the food and feeding habits of some American reptiles. Chapel Hill, N.C., J. Elisha Mitchell Sci. Soc., **21**, (149-155).]

Brooks, Barney. The anatomy of the internal urogenital organs of certain North American lizards. Austin, Cont. Zool. Lab., Univ. Tex., No. **69**, [In]

Austin, Trans. Tex. Acad. Sci., **8**, (1905), 1906, (23-38, pl.).

Broom, R. 1. The classification of the Karroo beds of South Africa. London, Rep. Brit. Ass., **1905**, [1906], (391-392).

Broom, R. 2. On a South African diaptosaurian reptile *Houesia*. London, Proc. Zool. Soc., **1906**, 2, (591-600, pls. xl, xli).

Broom, R. 3. On the organ of Jacobson in *Sphenodon*. London, J. Linn. Soc. Zool., **29**, 1906, (414-420, pls. xli, xlii).

Broom, R. 4. On a new cynodont reptile (*Elurosuchus browni*). Cape Town, Trans. S. Afric. Phil. Soc., **16**, pt. 4, 1906, (376-378, 1 pl.).

Broom, R. 6. On the South African Dinosaur (*Hortalotarsus*). Cape Town, Trans. S. Afric. Phil. Soc., **16**, pt. 3, 1906, (201-205, pl. iii).

Broom, R. 7. Note on the lacertilian shoulder girdle. Cape Town, Trans. S. Afric. Phil. Soc., **16**, pt. 4, 1906, (373-375).

Broom, R. 8. On the remains of *Erythrosuchus africanus* Broom. Cape Town, Ann. S. Afric. Mus., **5**, 1906, (187-196, with 1 pl.).

Broom, R. 9. On a new South African Triassic Rhynchocephalian. Cape Town, Trans. S. Afric. Phil. Soc., **16**, 1906, (379-380, text fig.).

Brown, Barnum. New notes on the osteology of *Triceratops*. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, 1906, (297-300, with pl.).

Bruner, K. Die Dekayische Natter, *Ichnognathus* s. *Storeria dekayi* Holbrook. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (458-460, 469-471, 476-478).

Brüning, Chr. Blindschleiche und Waldameisen. Wochenschr. Aquarienkunde, Braunschweig, **3**, 1906, (542-544).

Bryan, W. A. A monograph of Marcus Island. Honolulu, H.I. Bishop Museum Press., 1903, (140). 8vo.

Buffa, Pietro. 1. Lo sviluppo della muscolatura cutanea nel *Tropidonotus natrix*. Padova, Atti Acc. ven. trent., N. Ser., **2**, fasc. 2, 1905, (173-206, 3 tav.).

[Buffa, P. 2. Ricerche sulla muscolatura cutanea dei serpenti e considerazione sulla locomozione di questi animali. Padova, Atti Acc. ven. trent., N. Ser., **1**, 1905, (145-237).]

Camerano, Lorenzo. Ricerche intorno alla variazione del *Bufo viridis*, del *Bufo mauritanicus*, e del *Bufo regularis*. Torino, Mem. Acc. sc., (Ser. 2), **54**, 1904, (183-280).

Carlier, E. W. Note on some tadpoles covered with living Vorticellae. Edinburgh, Proc. Scot. Microsc. Soc., **4**, 1906, (133-135).

Case, E[rmine] C[owles]. 1. On the skull of *Edaphosaurus pogonias* Cope. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, 1906, (13-26, with pl.).

[Case, E. C. 2. The morphology of the pelycosaurian genus *Dimetrodon*. Philadelphia, Pa., Trans. Amer. Phil. Soc., **21**, 1905, (1-27, 7 pls.).]

Case, E. C. 3. The osteology of the *Diadectidae* and their relations to the Chelydosauria. J. Geol., Chicago, Ill., **13**, 1905, (126-159).

Cathoire. Filaire du sang chez l'*Uromastix acanthinurus*. Paris, C.-R. soc. biol., **60**, 1906, (1050-1052).

Cerruti, Attilio. Contribuzioni per lo studio dell' organo di Bidder nei Bufonidi. 1. Di una speciale penetrazione di ovuli in ovuli adiacenti nel *Bufo vulgaris*. Napoli, Atti Acc. Sc., Ser. 2, **12**, 1905, Mem. 1^a, (1-8, con 1 tav.).

[Chaignon, H. de. Notes zoologiques. Autun, Bul. soc. hist. nat., **18**, 1905, C.-R., (150-157).]

Chiaroni, P. Changements morphologiques qui se produisent dans la rétine des vertébrés par l'action de la lumière et de l'obscurité. Deuxième partie. La rétine des reptiles, des oiseaux, et des mammifères. Arch. ital. biol., Torino, **45**, 1906, (337-352).

Coe, W[esley] R[oswell] and Kunkel, B. W. Studies on the California limbless lizard, *Anniella*. New Haven, Conn., Trans. Acad. Arts Sci., **12**, 1906, (349-403, with pl.).

Coghill, G[eorge] E[lliott]. The cranial nerves of *Triton taeniatulus*. J. Comp. Neur. Psych., Granville, Ohio, **16**, 1906, (247-264).

Cohn, Ludwig. 1. Über die Resorption des Dotterrestes bei *Anguis fragilis* L. Zool. Anz., Leipzig, **30**, 1906, (429-440).

Cohn, L. 2. Weitere Untersuchungen über den Tentakelapparat des Anuren-genus *Xenopus*. Zool. Anz., Leipzig, **31**, 1906, (15-53).

Cole, Leon J. vide Barbour, T.

Collot, L. Reptile jurassique, (*Teleidosaurus gaudryi*) trouvé à Saint-Seine-l'Abbaye (Côte-d'Or). Dijon, Mém. Acad. sci. arts, sér. 4, **10**, 1906, (41-45, 3 pls.).

Comte, C. vide Nicolle, C.

Crawshaw, L. R. On variations in the arterial system of certain species of the Anura. London, Proc. Zool. Soc., **1906**, (1008-1033).

Dahms, P. Die Sumpfschildkröte, *Emys europaea* Schweigg., in Westpreussen. Danzig, Ber. bot.-zool. Ver., **28**, 1906, (89-96).

Daiber, Marie. Zur Frage nach der Entstehung und Regenerationsfähigkeit der Milz. Jenaische Zs. Natw., **42**, 1906, (73-114, mit 4 Taf.).

Denburgh, John. 1. On the occurrence of the spotted night snake, *Hypsiglena ochrorhynchus*, in Central California, and on the shape of the pupil in the reptilian genus *Arizona*. San Francisco, Proc. Cal. Acad. Sci. Zool., (Ser. 3), **4**, 1906, (65-67).

Denburgh, J. 2. Description of new species of the genus *Plethodon* (*Plethodon vandykei*) from Mount Rainier, Washington. San Francisco, Proc. Cal. Acad. Sci., Zool., (Ser. 3), **4**, 1906, (61-63).

Depéret, C. Los vertebrados del oligoceno inferior de Tárrega (prov. de Lérida). [The vertebrates of the Inferior Oligocene of Tárrega (prov. of Lérida).] (Spanish and French) Barcelona, Mem. R. Ac. Cs., **5**, 1906, (1-27, pls. i-v).

Depéret, C. vide Vidal, L. M.

Deyrolle, Etienne. Le discoglosse peint (faune du Maroc). Naturaliste, Paris, **27**, 1905, (266).

Dodds, Gideon S. The cranial nerves of one of the salamauders (*Plethodon glutinosus*). Boulder, Univ. Colo. Stud., **3**, 1906, (87-91).

Dollo, L. 1. Les allures des iguanodons d'après les empreintes des pieds et de la queue. *Bul. sci. France Belgique*, Paris, **40**, 1906, (1-12).

Dollo, L. 2. Les dinosauriens adaptés à la vie quadrupède secondaire. *Bruxelles, Bul. Soc. géol.*, **19**, 1905, (440-448).

Drzewina, Anna *vide* Bohm, G.

Duerden, J. E. 1. Variations in the *geometrica* group of S. African tortoises. *Cape Town, Rep. S. Afric. Ass.*, **1905-1906**, (178-209).

Duerden, J. E. 2. The South African tortoises of the genus *Homopus* with description of a new species. *Graham's Town, Rec. Albany Mus.*, **1**, pt. IV, 1906, (405-411, 1 pl.).

Dumont, P. La vipère dans nos pays. *Nancy, Bul. soc. sci.*, **6**, 1906, (77-84).

Eddy, Ruth D. The brain of *Anniella pulchra*. *Anat. Anz.*, Jena, **29**, 1906, (634-638).

Edwards, Charles I. [incoln] and **Hahn, Clarence W.** Some phases of the gastrulation of the horned toad, *Phrynosoma cornutum* Harlan. *Amer. J. Anat.*, Baltimore, Md., **5**, 1906, (331-351).

[**Elpatjevskij, V. S.**] Елпатьевскій, В. С. Пресмыкающіяся и земноводныя, собранныя Балханской экспедиціей въ 1903 году на берегахъ Балхана и р. Или. [Verzeichnis der von der Balchasch-See-Expedition an den Küsten des Balchasch-Sees und Il-Flusses gesammelten Amphibien und Reptilien.] *Tascent, Izv. Turk. Otd. Russ. Geogr. Obsč.*, **4**, 7, 1906, (49-59).

Elpatjevskij, V. S. und Sabanejev, L. L. Ergänzungen zur herpetologischen Fauna des Russischen Reichs. *Zool. Jahrb.*, Jena, Abt. f. Syst., **24**, 1906, (247-264, mit 2 Taf.).

Embleton, Alice L. v. Moore, J. E. S.

(**Esterly, C. O.** The structure and regeneration of the poison glands of *Plethodon*. *Berkeley, Univ. Cal. Pub., Zool.*, **1**, 1904, (227-268, pl.). [5607 5611 5631].)

Ewald, Wlfg. F. Vorkommen der Mauereidechse in Deutschland. *Bl. Aquarienkunde, Magdeburg*, **17**, 1906, (190).

Eycleshymer, Albert C. [hauncey]. **1.** The habits of *Necturus maculosus*.

Amer. Nat., Boston, Mass., **40**, 1906, (123-136).

Eycleshymer, A. C. 2. The growth and regeneration of the gills in the young *Necturus*. *Wood's Holl, Mar. Biol. Lab. Bull.*, **10**, 1906, (171-175).

Fahr, Aenny. Einiges über die Entwicklung der Erdmolche oder Feuer-salamander (*Salamandra maculosa*). *Wochenschr. Aquarienkunde, Braunschweig*, **3**, 1906, (186).

[**Faussek, V.**] Фаусекъ, В. Біологическія изслѣдованія въ Закаспійской области. [Biologische Untersuchungen in Transkaspien]. *St. Petersburg, Zap. Russ. Geogr. Obsč.*, **27**, 2, 1906, (1 + 1-192 + 1 mit 64 Abb. i. T. u. 4 Taf.).

Favaro, G. Ricerche anatomico-embriologiche intorno alla circolazione caudale ed ai cuori linfatici posteriori degli Anfibi con particolare riguardo agli Urodeli. *Padova, Atti Ac. ven. trent*, N. Ser., **3**, 1906, (122-166, text figg.).

Felix, W. Geschlechtsorgane der Amphibien und Reptilien. [In] **Hertwig**, *Handbuch der Entwicklungslehre der Wirbeltiere* Lief. 29, 30, 1906, (690-710, 750-762).

Ferrata, Adolfo. Rapporti fra nucleolo, nucleo, e granulazioni del protoplasma. *Mon. zool. ital.*, Firenze, **17**, 1906, (326-327, 1 tav.).

Forrest, H. E. Records of reptiles and amphibia, observed. *Shrewsbury Rec. Caradoc F. Cl.*, **16**, 1906, (29).

Fowler, H. W. 1. Some cold-blooded vertebrates of the Florida Keys. *Philadelphia, Pa., Proc. Acad. Nat. Sci.*, **58**, 1906, (77-113, 2 pls.).

Fowler, H. W. 2. Note on Muhlenberg's turtle. *Amer. Nat.*, Boston, Mass., **40**, 1906, (596).

Fowler, H. W. 3. Note on the dusky salamander. [*Desmognathus fusca*.] *Philadelphia, Pa., Proc. Acad. Nat. Sci.*, **58**, 1906, (356-357, pl.).

François-Franck. 1. Contractilité de l'appareil pulmonaire de la tortue terrestre. *Paris, C.-R. soc. biol.*, **60**, 1906, (968-970).

François-Franck. 2. Rapports entre la structure musculaire et la contractilité du poumon de la tortue terrestre. *Paris, C.-R. soc. biol.*, **60**, 1906, (1126-1127).

François-Franck. 3. Etudes de mécanique respiratoire comparée. II: Analyse des réactions motrices propres du poulmon de la tortue terrestre. Paris, C.-R. soc. biol., **61**, 1906, (6-8).

François-Franck. 4. Etudes de mécanique respiratoire comparée. III: Résumé des résultats fournis par les expériences antérieures sur le mécanisme de la respiration des Chéloniens (*Testudo graeca*). Paris, C.-R. soc. biol., **61**, 1906, (127-129, av. fig.).

Fritsch, A. Synopsis der Saurier der böhm. Kreideformation. Prag, Sitz-Ber. Böhm. Ges. Wiss., **1905**, No. 8, (1-7).

Fuch, R. F. Zur Physiologie der Pigmentzellen. Biol. Centralbl., Berlin, **26**, 1906, (863-879, 883-910).

Gadow, H. A contribution to the study of evolution based upon the Mexican species of *Cnemidophorus*. London, Proc. Zool. Soc., **1906**, (277-375, pl. xx).

Gamble, F. W. *vide* Marshall, A. Milnes.

Gardiner, J. S. Notes on the distribution of the land and marine animals, with a list of the land plants and some remarks on the coral reefs. Fauna and Geography, Maldives and Laccadive Archipelagoes, **2**, suppl. 2, 1906, (1049-1057).

Gemelli, Agostino. 1. Nuove osservazioni sulla struttura delle placche motrici e dei fusi neuromuscolari. Mon. zool. ital., Firenze, **17**, 1905, (90-99).

Gemelli, A. 2. Ricerche sperimentali sullo sviluppo dei nervi degli arti pelvici di *Bufo vulgaris* innestati in sede anomala. Milano, Rend. Ist. lomb., Ser. 2, **39**, 1906, (729-734).

Gerhartz, Heinrich. Anatomie und Sekretionsvorgänge von Samenblase und Harnleiter der Batrachier. Diss. Bonn (Druck v. C. Georgi), 1904, (28). 21 cm.

Ghigi, Alessandro. Osservazioni anatomiche ed embriologiche sulla forma esterna e sullo scheletro delle estremità nella *Testudo graeca*. Brevissimo Sunto. Bologna, Rend. Acc. sc., N. Ser., **10**, (1905-1906), 1906, (54); Bologna, Mem. Acc. sc., Ser. 6, **3**, 1906, (235-247).

Giacomini, Ercole. 1. Sulla maniera di gestazione e sugli annessi embrionali del *Gongylus ocellatus* Forsk. Bologna, Mem. Acc. sc., Ser. 6, **3**, 1906, (101-115, 2 tav.).

Giacomini, E. 2. Ricerche sugli annessi embrionali del *Gongylus ocellatus*. Sunto. Bologna, Rend. Acc. sc., N. Ser., **10**, (1905-1906), 1906, (71-78).

Giannelli, Luigi. Uova primordiali aberranti in embrioni di *Seps chalcides* a sesso differenziato. Mon. zool. ital., Firenze, **17**, 1906, (265-274).

(**Giard, A.** Le Triton marbré existe-t-il dans le nord de la France? Feuille jeunes natural., Paris, sér. 4, **38**, 1905, (129).)

Giglio-Tos, Ermanno. A proposito del diaframma degli Anfibi anuri. Biologica, Torino, **1**, fasc. 1, 1906, (26-32).

Gilmore, Charles W[hitney]. 1. Notes on osteology of *Baptanodon*. With a description of a new species. Pittsburg, Pa., Mem. Carnegie Mus., **2**, 1906, (325-342, with pl.).

Gilmore, C. W. 2. Notes on some recent additions to the exhibition series of vertebrate fossils. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **30**, 1906, (607-611, with pls.).

Godon, J. Contributions à la faune du Nord (Amphibiens et Poissons). Feuille jeunes natural., Paris, sér. 4, **36**, 1906, (47).

Goeldi, E. A. Chelonios do Brazil. [Brazilian Chelonia.] Bol. Mus. Goeldi, Pará, **4**, 1906, (699-756).

Göppert, E[rnst]. Bemerkungen zu: A. Fleischmann, das Kopfskelett der Amnioten. Morphogenetische Studien. 2. Forts. 1905. Morph. Jahrb., Leipzig, **33**, 1905, (532-534).

Goggio, Empedocle. Sulla respirazione buccofaringea nello *Spelerpes fuscus* e nella *Salamandrina perspicillata*. Pisa, Atti Soc. tosc. sc. nat., Pr. verb., **13**, adunanza del 18 Gennaio 1903, (100-110).

Goto, Seitarō. A few cases of meristic variation in the common toad and an isopod. Annot. Zool. Jap., Tokyo, **5**, 1906, (267-281).

Gradon, J. T. Researches on the origin and development of the epiblastic trabeculae and the pial sheath of the optic nerve of the frog, with illustrations of variations met with in other vertebrates, and some observations on the lymphatics of the optic nerve. *Q. J. Microsc. Sci.*, London, **50**, 1906, (479-493, pls. xxvi-xxvii).

Green, E. E. 1. On the constricting habit of *Coluber helena*. *Spolia Zeylanica*, **3**, 1906, (197).

Green, E. E. 2. Curious action of a toad when confronted by a snake. *Spolia Zeylanica*, **3**, 1906, (196).

Grimme, [Arnold]. Die Reptilien und Amphibien Niederlassens unter besonderer Berücksichtigung ihrer Lebensweise und Fortpflanzung. Cassel, *Abh. Ver. Natk.*, **50**, 1906, (30-51).

Grynfeldt, E. Sur les muscles de l'iris des Amphibiens. *C.-R. ass. anat.*, Nancy, **1906**, (77-79).

Guieysse, A. Etude de la régression de la queue chez les têtards des Amphibiens anoures. Paris, *Arch. anat. microsc.*, **7**, 1904, (369-428, pl. xiv, xv).

Hagmann, Gottfried. Die Eier von *Gonatodes humeralis*, *Tupinambis nigropunctatus* und *Caiman sclerops*. 3. Beitrag zur Kenntnis der Lebens- und Fortpflanzungsweise der brasilianischen Reptilien. *Zool. Jahrb.*, Jena, *Abt. f. Syst.*, **24**, 1906, (307-316, 3 Taf.).

Hahn, Clarence W. *vide* Edwards, Charles I[ncoln].

Harvie-Brown, J. A. A vertebrate fauna of Scotland; Tay Basin and Strathmore. Edinburgh, 1906, (lxxxvi + 377). Reptilia (355-357). Amphibia (358-360). 1906. Svo.

Hay, O[liver] P[erry]. 1. Reptilia. [Pleistocene.] Maryland Geol. Surv., Pliocene and Pleistocene, Baltimore, **1906**, (169-170).

Hay, O. P. 2. Descriptions of new species of turtles of the genus *Testudo*, collected from the Miocene by the Carnegie museum; together with a description of the skull of *Stylomys nebrascensis*. Pittsburg, Pa., *Ann. Carnegie Mus.*, **4**, 1906, (15-20, pl.).

Hay, O. P. 3. Descriptions of two new genera (*Echmatemys* and *Xenochelys*) and two new species (*Xenochelys formosa* and *Terrapene putnami*)

of fossil turtles. New York, N.Y., *Bull. Amer. Mus. Nat. Hist.*, **22**, 1906, (27-31).

Hay, O. P. 4. On two interesting genera of Eocene turtles, *Chisternon* Leidy and *Anosteira* Leidy. New York, N.Y., *Bull. Amer. Mus. Nat. Hist.*, **22**, 1906, (155-160).

Hesse, E. *Lucilia* in *Bufo vulgaris* Laur. schmarotzend. *Biol. Centralbl.*, Leipzig, **26**, 1906, (633-640, 1 Taf.).

Hewitt, J. Account of three snakes. Singapore, *J. R. Straits Asiat. Soc.*, **45**, 1906, (282-283).

Hickling, G. On footprints from the Permian of Mansfield (Nottinghamshire). London, *Proc. Geol. Soc.*, **62**, 1906, (125-131).

Holland, W[illiam] J[acob]. The osteology of *Diplodocus* Marsh. Pittsburg, Pa., *Mem. Carnegie Mus.*, **2**, 1906, (225-278, pl.).

Holmes, S. J. The biology of the frog. London, 1906, (vii + 370). [Review by F. W. G. *Nature*, London, 1906, **74**, (560-561), and by A. E. A. *Science*, New York, N.Y., *N. Ser.*, **24**, 1906, (112-114).]

Hoyer, H[enryk]. Badania nad układem limfatycznym kijanek. Część I. [Recherches sur le système lymphatique des têtards des grenouilles. I partie.] Kraków, *Rozpr. Akad.* **45 B**, 1905, (253-261, av. 1 table).

Hubbard, Marian E[lizabeth]. Correlated protective devices in some California salamanders. Berkeley, Univ. Cal., *Pub. Zool.*, **1**, 1903, (157-170, pl.).

Huene, Friederich. v. 1. Ueber die Foramina der Carotis interna und des Hypoglossus bei einigen Reptilien. *Centralbl. Min.*, Stuttgart, **1906**, (336-338).

Huene, F. v. 2. Ueber das Hinterhaupt von *Megalosaurus bucklandi* aus Stonesfield. *N. Jahrb. Min.*, Stuttgart, **1906**, I, (1-12, 1 Taf.).

Hunter, W. K. On the action of the venoms of different species of poisonous snakes on the nervous system. V. Venom of the common krait (*Bungarus coeruleus*). *Lancet*, London, **1906**, I, (1231-1233).

Jaekel, O. 1. Über die Mundbildung der Wirbeltiere. Berlin, *SitzBer. Ges. Nat. Freunde*, **1906**, (7-32).

- Jaekel, O. 2.** Einige Beiträge zur Morphologie der ältesten Wirbeltiere. Berlin, Sitzber. Ges. natf. Freunde, **1906**, (180-189).
- Jakovlev, N. 1.** Ueber *Plesiosaurus*-Reste aus der Wolga-Stufe an der Lena in Siberien. St. Petersburg, Verh. Russ. mineral. Ges., **41**, 1904, (13-16, mit Taf. i).
- Jakovlev, N. [ЯКОВЛЕВЪ, Н.] 2.** Заѣтки о мозазаврахъ. [Notes sur les mosasauriens.] St. Petersburg, Bull. Com. géol., **24**, 1905, (135-148); Rés. franç., (149-152).
- Janensch, W[erner].** Ueber *Archaeophis proavus* Mass., eine Schlange aus dem Eocän des Monte Bolca. Wien, Beitr. Pal. Geol. OestUng., **19**, 1906, (1-33, 2 Taf.).
- Janssens, F. A.** Spermatogenèse dans les batraciens. III. Evolutions des auxocytes mâles du *Batrachoseps attenuatus*. Cellule, Louvain, **22**, 1906, (379-427).
- Jenkinson, J. W. 1.** On the relation between the symmetry of the egg and the symmetry of the embryo in the frog (*Rana temporaria*). Biometrika, Cambridge, **5**, 1906, (147-167).
- Jenkinson, J. W. 2.** The influence of salt and other solutions on the development of the frog. Report of Committee. London, Rep. Brit. Ass., **1905**, [1906], (175-181).
- Jenkinson, J. W. 3.** On the effect of certain solutions upon the development of the frog's egg. Arch. Entw-Mech., Leipzig, **21**, 1906, (367-460).
- Joleaud, L.** Description des terrains néogènes de la Plaine du Comtal et de ses abords (suite). Reptiles, Crocodiliens et Chéloniens. Avignon, Mém. Acad., **6**, 1906, (356-362).
- K., J. S.** Origin of the vascular epithelium and of the blood in amphibia. Amer. Nat., Boston, Mass., **40**, 1906, (743-744).
- Kammerer, Paul.** Experimentelle Veränderung der Fortpflanzungstätigkeit bei Geburtshelferkröte (*Alytes obstetricans*) und Laubfrosch (*Hyla arborea*). Arch. Entw-Mech., Leipzig, **22**, 1906, (48-140, 1 Taf.).
- Kampen, P[eter] N[icolaas] van.** Amphibien. Nova Guinea, Résultats de l'Expédition scientifique Néerlandaise à la Nouvelle-Guinée en 1903, sous les auspices de Arthur Wichmann, Chef de l'Expédition. Leide (E. J. Brill), **5**, Livr. 1, 1906, (163-180, 1 Taf.). 31 cm.
- Kershaw, J. A.** General Zoology, Wilson's Promontory. Vict. Nat., Melbourne, **22**, 1906, (197-207).
- (King, Helen Dean. 1.** The formation of the first polar spindle in the egg of *Bufo lentiginosus*. [With bibliography.] Wood's Holl, Mass., Mar. Biol. Lab. Bull., **9**, 1905, (73-90, with text fig., pl.). [5615].)
- (King, H. D. 2.** The maturation and fertilization of the egg of *Bufo lentiginosus*. J. Morph., Boston, Mass., **17**, 1901, (293-350). [5615].)
- Kingsbury, B[enjamin] F[reeman] 1.** The rank of *Necturus* among tailed Batrachia. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **8**, 1905, (67-74).
- Kingsbury, B. F. 2.** Columella auris and nervus facialis in the Urodela. [S.-A. aus Journ. Comp. Neurology, V. 13.] Diss. Freiburg i. Br., 1904, (27). 23 cm.
- Klaptocz, B.** Beitrag zur Kenntnis der bei gewissen Chamäleonten vorkommenden Achseltaschen. Zool. Jahrb., Jena, Abt. f. Anat., **23**, 1906, (187-206).
- Klingelhöffer, W.** Süßwasserschildkröten. Zool. Garten, Frankfurt a. M., **47**, 1906, (15-25).
- Klunzinger, C. B. 1.** Ueber die Samenträger von *Triton alpestris*. Verh. D. zool. Ges., Leipzig, **16**, 1906, (227-228).
- Klunzinger, C. B. 2.** Ueber die Kreuzotter. Stuttgart, Jahreshefte Ver. Natk., **62**, 1906, (xci-xcix).
- Klunzinger, C. B. 3.** Ueber einige eigentümlich gefärbte und gezeichnete, besonders melanische Grasfrösche. Frankfurt a. M., Ber. Senckenb. Ges., **1906**, (105-118, 2 Taf.).
- [[Knoblauch, A.] Кноблаухъ, А.** Кавказская саламандра, *Salamandra caucasica* Waga. [Der kaukasische Feuersalamander, *Salamandra caucasica*.] Tiflis, Mitth. Kavk. Mus., **2**, 1905, (25-45, 1 Farbentaf. 4 Textfigg.).
- Koenen, Otto.** Einige Beobachtungen betreffend Reptilien und Amphibien. Münster, Jahresber. ProvVer. Wiss., **34**, (1905-06), 1906, (44-50).

König, Clemens. 1. Eine Klapperschlangenjagd. [IV. V.] D. Jägerztg, Neudamm, **47**, 1906, (476-478, 508-509, 524-526, 541-542).

König, C. 2. Warum rasseln die Klapperschlangen? Natur u. Haus, Dresden, **14**, 1906, (326-330).

König, C. 3. Die Rassel der Klapperschlange. Natw. Wochenschr., Jena, **21**, 1906, (49-55).

Kolombatović, G. Contribuzione alla fauna dei vertebrati della Dalmazia. Glasnik Naravosl. druzt., Zagreb, **15**, 1904, (182-191).

Kräusel, R. Die gemeine Erdkröte (*Bufo vulgaris*) im Terrarium. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (215-216).

Kreff, Paul. 1. Ein westindischer Riesenlaubfrosch. Natur u. Haus, Dresden, **14**, 1906, (115-118).

Kreff, P. 2. Die vielstreifige *Mabuia*. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (332-333, 335-337).

Krull, Joseph. Die Entwicklung der Ringelnatter (*Tropidonotus natrix* Boie) vom ersten Auftreten des Proamnios bis zum Schlusse des Amnios. Zs. wiss. Zool., Leipzig, **85**, 1906, (107-155, 2 Taf.).

Künstler, J. Notice sur les hématies de la grenouille. C.-R. ass. anat., Nancy, **1904**, (1-2).

Kummer, Haas. Weitere Beiträge zur Kenntnis des *Triton blasii*. (Kreuzungsversuche.) Wochenschr. Aquarienkunde, Braunschweig, **3**, 1906, (568-570).—Bemerkungen dazu v. W. Wolterstoff, T.e. (610-611, 624-625, 639-640).

Kunkel, B. W. vide Coe, W[esley] R[oswell].

Lambe, L. M. 1. Descriptions of new species of *Testudo* and *Baëna*, with remarks on some cretaceous forms. Ottawa Nat., **19**, 1906, (187-196, 2 pls.). [Review by F. A. H. Geol. Mag., London, (5), **3**, 1906, (270).]

Lambe, L. M. 2. *Boremys*, a new Chelonian genus from the Cretaceous of Alberta. Ottawa Nat., **19**, 1906, (232-234).

Lams, H. Le corps vitellin de Balbiani et la masse vitelligène dans l'oocyte de *Rana temporaria*. [Vorge-

tragen v. O. Van der Stricht.] Anat. Anz., Jena, **29**, ErgH., 1906, (169-172).

Lange, Daniel de. De kiemblad-vorming van *Megalobatrachus maximus* (Schlegel). [The mode of origin of the germinal layers in *Megalobatrachus maximus* (Schlegel).] Amsterdam (Roe-loffzen Hübner en van Santen), 1906, (196, 4 pls.). 24 cm.

Lankes, K. *Necturus maculatus* Raf. in bayerischen Gewässern. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (160-161).

Lefroy, H. M. Notes on some sea snakes caught at Madras. Bombay, J. Proc. Asiatic Soc., **2**, 1906, (69-72).

Léger, L. Protozoaires parasites des Vipères (*Vipera aspis*). Paris, Bull. Ass. franç. avanc. sci., **1904**, (268).

Leontowitsch, A[lexander]. Zur Frage der Gefässinnervation bei *Rana esculenta*. Intern. Monatschr. Anat., Leipzig, **23**, 1906, (1-18, 2 Taf.).

(L'Eost. Rapport au contre-amiral commandant la 2^e division de l'escadre d'Extrême-Orient au sujet d'un animal inconnu rencontré en baie d'Along par la "Décidée." Paris, Bul. soc. zool., **29**, 1904, (115-117).)

Leriche, M. Note sur les vertébrés éocènes de la Loire-inférieure. Nantes, Bul. soc. sci. nat., sér. 2, **6**, 1906, (179-183).

[Levčuk, V.] Левчукъ, В. Замѣтки изъ поѣздки на островъ Челекенъ въ 1902 г. [Notizen von einer Reise auf die Insel Čeleken i. J. 1902.] Mater. faun. flor. Ross., Moskva, Zool., **7**, 1906, (302-324).

Levi, Giuseppe. La struttura dei gangli cerebrospinali dei Cheloni. Mon. zool. ital., Firenze, **17**, 1906, (112-124, 2 tav.).

Levy, Oskar. Entwicklungsmechanische Studien am Embryo von *Triton taeniatus*. I. Orientierungsversuche. Arch. EntwMech., Leipzig, **20**, 1906, (335-379, 6 Taf.).

Levy, O. vide Rosenhauch, E.

Lewis, Warren Harmon. Experimental studies on the development of the eye in Amphibia. 2. On the cornea. J. Exp. Zool., Baltimore, Md, **2**, 1905, (431-446, 2 pls.).

Lindholm, W. A. Beschreibung einer neuen Schildkrötenart aus Deutsch-Südwestafrika nebst Bemerkungen über die Gattung *Homopus* D. et B. Wiesbaden, Jahrb. Ver. Natk., **59**, 1906, (345-351).

Linstow, O. von. Parasites from the Gharial (*Gavialis gangeticus* Geoffn.) Calcutta, J. As. Soc. Beng., **2**, 1906, (269-271).

Livini, Ferdinando. Formazioni della volta del proencefalo in *Salmandrina perspicillata*. Ricerche anatomiche ed embriologiche. Mon. zool. ital., Firenze, **19**, 1906, (177-193, 4 tav.).

Löns, H. Bitte, die Wirbeltiere Hannovers betreffend. Hannover, Jahresber. nat.-hist. Ges., **1905**, (247-264).

Loisel, Gustave. 1. Caractères sexuels secondaires chez la tortue mauresque. Paris, Bull. ass. franç. avanc. sci., **1905**, (336).

Loisel, G. 2. Caractères sexuels de la tortue mauresque. Paris, C.-R. ass. franç. avanc. sci., **34**, (Cherbourg, 1905, 2^e Partie), **1906**, (545-550).

Loisel, G. 3. Expériences sur la toxicité des œufs. Paris, C.-R. Acad. sci., **141**, 1905, (730-731).

Lote, J. v. Ist das Wutvirus auf Frösche übertragbar? Centralbl. Bakt., Jena, **42**, 1906, (25-29).

Lotze. Ueber Wesen und Wirkung von Schlangengiften mit kasuistischen Beiträgen. Münchener med. Wochenschr., **53**, 1906, (17-20).

Loyez, Marie. Recherches sur le développement ovarien des œufs méroblastiques à vitellus nutritif abondant. Arch. anat. microsc., Paris, **8**, 1906, (239-397).

Lull, Richard S[wann]. A new name for the dinosaurian genus *Ceratops*. Amer. J. Sci., New Haven, Conn., (Ser. 4), **21**, 1906, (114).

McAttee, Waldo L. *vide* Banta, A. M.

McGregor, J[ames] H[oward]. The Phytosauria, with especial reference to *Mystriosuchus* and *Rhytidodon*. New York, N.Y., Mem. Amer. Mus. Nat. Hist., **9**, 1906, (27-101 + 6l., pl.).

Marcinowski, Kati. Zur Entstehung der Gefässendothelien und des Blutes

bei Amphibien. Jenaische Zs. Natw., **41**, 1906, (19-112, 5 Taf.).

Marriner, George. Anatomy of *Hyla aurea*. Wellington, Trans. N. Zeal. Inst., **38**, 1906, (257-265).

Marshall, A. Milnes. The frog: an introduction to anatomy, histology and embryology. Ninth edition, by F. W. Gamble. London, 1906. [Review, Lancet, London, **1906**, 2, (1076-1077).]

Mayet, Valery. Catalogue résumé des Reptiles et Batraciens de la Tunisie. Paris, Expl. scient. de la Tunisie, 1903, (32). 23 cm.

Méhely, Lajos. A vilhant és földregézt jelző állatokról. [Ueber die Wetter und Erdbeben anzeigenden Tiere.] Term. Közl., Budapest, **38**, 1906, (213-219).

Mercier, L. Les processus phagocytaires pendant la métamorphose des Batraciens anoures et des Insectes. Arch. zool., Paris, sér. 4, **5**, 1906, (1-151, av. fig.).

Merriam, John C[ampbell]. Preliminary note on a new marine reptile from the Middle Triassic of Nevada. Berkeley, Univ. Cal. Pub., Bull. Dept. Geol., **5**, 1906, (75-80 + 1l., pl.).

Meves, Friedrich. 1. Zur Kenntnis der Thrombocyten des Salamanderblutes und ihres Verhaltens bei der Gerinnung. Arch. Mikr. Anat., Bonn, **68**, 1906, (311-358).

Meves, F. 2. Eine weitere Methode zur Darstellung der Quermembranen des Randreifens in den Erythrocyten des Salamanders. Anat. Anz., Jena, **28**, 1906, (444-447).

Milani, Pio. Sulla cresta ipocordale in embrioni di *Gongylus ocellatus*. C.-R. ass. anat., Nancy, **1905**, 1906, (136).

Miller, L. H. Capture of the salamander *Autodax lugubris*, at Los Angeles, Cal. Amer. Nat., Boston, Mass., **40**, 1906 (741-742).

Miller, William Snow. The blood and lymph vessels of the lung of *Necturus maculatus*. Amer. J. Anat., Baltimore, Md., **4**, 1905, (445-452, 2 pls.).

Miquel, Manuel. Restos fósiles de vertebrados encontrados en San Morales (Salamanca). [Fossil remains of vertebrates found at San Morales.] Madrid, Bol. soc. esp. hist. nat., **6**, 1906, (352-357).

Mocquard, F. 1. Description de quelques espèces nouvelles de reptiles. Bul. Muséum, Paris, **1906**, (464-467).

Mocquard, F. 2. Description de quelques reptiles et d'un batracien d'espèces nouvelles. Bul. Muséum, Paris, **1906**, (247-253).

Mocquard, F. 3. Faune erpétologique du Congo français. Rev. colon., Paris, **1905**, (477-485, 544-564, 603-614, 668-674).

(**Mocquard, F. 4.** Batraciens recueillis par M. A. Pavie en Indo-Chine. Mission Pavie, **3**, 1904, (473-174). Serpents, l.c. (481-484). Crocodiles, l.c. (491). Lézards, l.c. (486-488).)

Mocquard, F. 5. Les reptiles de l'Indo-Chine. Rev. colon., Paris, **1906**, (462-480, 542-552, 611-624, 691-696, 756-760).

Mollier, S. Die erste Entwicklung von Blut und Gefässen bei Holoblastiern. [In] Hertwig, Handbuch der Entwicklungslehre der Wirbeltiere, Lief. 29, 30, 1906, (1052-1077).

Moore, J. E. S. and Embleton, A. L. On the synopsis in Amphibia. London, Proc. R. Soc. B, **77**, 1906, (555-562, pls. 20-23).

Morgan, T[homas] H[unt]. 1. The origin of the organ-forming materials in the frog's embryo. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **11**, 1906, (124-136).

Morgan, T. H. 2. The relation between normal and abnormal development of the frog's egg. [Abstract.] New York, N.Y., Proc. Soc. Exp. Biol. Med., **2**, 1905, (57-60).

Morgan, T. H. 3. The relation between normal and abnormal development of the embryo of the frog: 6-10. [Reprint.] Bryn Mawr, Pa., Bryn Mawr Coll. Monogr., (Reprint Ser.), **6**, 1906, (313-347, 566-587, 588-614, pl.).

Morgan, T. H. 4. The influence of a strong centrifugal force on the frog's egg. Arch. EntwMech., Leipzig, **22**, 1906, (553-563, 2 Taf.).

Morgenroth, J. Weitere Beiträge zur Kenntnis der Schlangengifte und ihrer Antitoxine. [In] Arbeiten aus dem path. Inst. zu Berlin. Berlin (A. Hirschwald), 1906, (436-454).

Müller-Mainz, Lorenz. *Geoemyda spinosa* Gray. Wochenschr. Aquarienkunde, Braunschweig, **3**, 1906, (195-197, 207-209).

Musshoff, Hugo. *Phyllomedusa hypochondrialis* Cope, ein Brutpflegender Baumfrosch. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (255-256, 269-270).

Navás, Longinos. Novedades zoológicas de Aragón: Algunos reptiles y anfibios de Aragón. [Zoological novelties from Aragon: some Aragonese reptiles and amphibia.] Zaragoza, Bol. Soc. Arag., **5**, 1906, (205-213, pl.).

Neveu Lemaire, M. Les Lacs des hauts plateaux de l'Amérique du Sud. 1906. Batraciens (112). Svo.

Newman, H. H. 1. The habits of certain tortoises. J. Comp. Neur. Psych., Granville, Ohio, **16**, 1906, (126-152).

Newman, H. H. 2. Correlated abnormalities in the scutes and bony plates of Chelonia. Science, New York, N.Y., **23**, 1906, (526).

Newman, H. H. 3. The significance of scute and plate "abnormalities" in Chelonia. A contribution to the evolutionary history of the Chelonian carapace plastron. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **10**, 1906, (68-98, 99-114, pl.).

[**Nikol'skij, A. M.**] Никольскій, А. М. Противумимическія приспособленія у животнохъ. [Antimimistische Anpassungen bei den Thieren.] Jestestv. i geogr., Moskva, **11**, 1906, 8, (39-44).

Nopcsa, F[rantz]. 1. Notes on British Dinosaurs. Geol. Mag., London, (5), **2**, 1905, (203-208, 241-250, 289-293).

Nopcsa, F. 2. Zur Kenntnis des Genus *Streptospondylus*. Wien, Beitr. Pal. Geol. OestÜng., **19**, 1906, (59-83).

Nussbaum, Moritz. 1. Fortgesetzte Untersuchungen über den Einfluss des Hungers auf die Entwicklung der männlichen Geschlechtsorgane der *Rana fusca*. Anat. Anz., Jena, **29**, 1906, (315-316).

Nussbaum, M. 2. Ueber den Einfluss der Jahreszeit, des Alters und der Ernährung auf die Form der Hoden und Hodenzellen der Batrachier. Arch. mikr. Anat., Bonn, **68**, 1906, (1-121, 7 Taf.).

Nussbaum, M. 3. Einfluss des Hodensekrets auf die Entwicklung der Brunstorgane des Landfrosches. Bonn, SitzBer. Ges. Natk., 1905, 1906, med. Abt., (41-16).

Nussbaum, M. 4. Innere Sekretion und Nerveneinfluss. Anat. Anz., Jena, 29, 1906, (431-432).

Oeder, R. 1. Die Entstehung der Munddrüsen und der Zahnleiste der Anuren. Jenaische Zs. Natw., 41, 1906, (505-546, 2 pls.).

Oeder, R. 2. Die Entstehung der Munddrüsen und der Zahnleiste der Anuren. Diss. Jena (Druck v. G. Fischer), 1906, (v+42). 23 cm.

Ognew, S. J. Ein Fall von Hermaphroditismus bei *Rana temporaria* L. Anat. Anz., Jena, 29, 1906, (194-203).

Okajima, Keji. 1. Zur Anatomie des Geruchsorgans von *Cryptobranchus japonicus*. Anat. Anz., Jena, 29, 1906, (641-650).

Okasima, K. 2. Zur Anatomie des inneren Gehörorgans von *Cryptobranchus japonicus*. Anat. Hefte, Wiesbaden, Abt. 1, 32, 1906, (233-253, mit 3 Taf.).

Olivier, E. 1. Bou-Saada. Rev. Sci. Bourbon., Moulins, 1906, (1-25).

Olivier, E. 2. Une ponte extraordinaire de *Lacerta vivipara*. Paris, Bul. soc. zool., 28, 1903, (180-181).

Osborn, H[enry] F[airfield]. 1. The skeleton of *Brontosaurus* and skull of *Morosaurus*. Nature, London, 73, 1906, (282-284).

Osborn, H. F. 2. *Tyrannosaurus*, Upper Cretaceous carnivorous dinosaur. (Second communication.) New York, N.Y., Bull. Amer. Mus. Nat. Hist., 22, 1906, (281-296, pl.)

O[sborn], H. F. 3. [A Permian reptile from Brazil.] Science, New York, N.Y., N. Ser., 24, 1906, (184-185).

Osburn, Raymond C[arroll]. Adaptive modifications of the limb skeleton in aquatic reptiles and mammals. New York, N.Y., Ann. Acad. Sci., 16, 1906, (447-482, pl.).

Parker, G[eorge] H[oward]. The influence of light and heat on the movement of the melanophore pigment,

especially in lizards. [Cambridge, Mass., Cont. Mus. Comp. Zool. Harvard Coll., No. 183.] J. Exp. Zool., Baltimore, Md., 3, 1906, (401-404).

Payue, Fernandus. The eyes of the blind vertebrates of North America. 7. The eyes of *Amphisbaena punctata* (Bell), a blind lizard from Cuba. [Contributions from the Zoological laboratory of Indiana University, No. 77.] Wood's Holl, Mass., Mar. Biol. Lab. Bull., 11, 1906, (60-70, pl.).

Pentland, G. H. *Lacerta vivipara* at Baltray. Irish Nat., Dublin, 15, 1906, (191).

Personali, S. Sulla rigenerazione del cervello nel Tritone. Studio sperimentale. Torino, Giorn. Acc. med., 66, 1903, (102-119).

Place, B. A. Relation of the motor nerve endings to voluntary muscle in the frog. Des Moines, Proc. Iowa Acad. Sci., 13, 1906, (261-266, with pl.).

Prentiss, C[hables] W[illiam]. The nervous structures in the palate of the frog: the peripheral networks and the nature of their cells and fibers. J. Comp. Neur., Granville, Ohio, 14, 1904, (93-117).

(Racovitza, Emil G.) Note sur le grand serpent de mer (*Megophias megophios* Rafinesque). A propos d'une observation de M. Lagrésille, faite en 1898, dans les mers du Tonkin. Paris, Bul. Soc. zool., 28, 1903, (11-29).

Radwańska, Marya. Przednie serca limfatyczne żaby. 7 ryc. [Les cœurs lymphatiques antérieurs de la grenouille.] Kraków, Rozpr. Akad., 46 B, 1906, (115-130, 7 pls.) (Polish); (Die vorderen Lymphherzen des Frosches.) Kraków, Bull. Intern. Acad., 1906, (213-228) (Polish and German).

Reed, Margaret. The formation of the interior cells in the segmentation of the frog's egg. Wood's Holl, Mass., Mar. Biol. Lab. Bull., 8, 1905, (189-192).

Reese, A[lbert] M[oores]. 1. Observations on the reactions of *Cryptobranchus* and *Necturus* to light and heat. Wood's Holl, Mass., Mar. Biol. Lab. Bull., 11, 1906, (93-99).

Reese, A. M. 2. Anatomy of *Cryptobranchus alleggheniensis*. Amer. Nat., Boston, Mass., **40**, 1906, (287-326).

Reese, A. M. 3. A double embryo of the Florida alligator. Anat. Anz., Jena, **28**, 1906, (229-231).

(**Reese, A. M. 4.** The eye of *Cryptobranchus*. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **9**, 1905, (22-26, with text fig.). [5607].)

[**Reese, A. M. 5.** The enteron and integument of *Cryptobranchus alleggheniensis*. Lancaster, Pa., Trans. Amer. microsc. Soc., **25**, 1905, (109-120).]

Reinke, Fr[iedrich]. Die Beziehungen des Lymphdruckes zu den Erscheinungen der Regeneration und des Wachstums. Arch. mikr. Anat., Bonn, **68**, 1906, (252-278, 1 Taf.).

Retzius, Gustaf. 1. Die Spermien der Amphibien. [In] Retzius, Biolog. Untersuchungen, N.F., **13**, Jena (G. Fischer), 1906, (49-70, 12 Taf.).

Retzius, G. 2. Die Spermien der Reptilien. Retzius, Biol. Untersuchungen, N.F., **13**, 1906, (71-74, 1 Taf.).

Ribbing, L. Die Homodynamien der Muskeln und Nerven in den distalen Teile der Extremitäten von *Siredon pisciformis*. Anat. Anz., Jena, **28**, 1906, (355-364).

Riepe, Ed. Brutpflege der Grasfrösche. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (190).

Riggs, Elmer S. The carapace and plastron of *Basilemys sinuosus*, a new fossil tortoise from the Laramie beds of Montana. Chicago, Ill., Pub. Field Columb. Mus., Geol. Ser., **2**, 1906, (11. + 249-256, pl.).

Roaf, H. K. The action of acids and alkalies and of acid alkaline and neutral salts upon the tadpole of *Rana temporaria*. Biochemical Journal, Liverpool, **1**, 1906, (88).

Rössler, E. Verzeichniss der Reptilien und Amphibien der kroatischen Fauna welche an das „Zoologische Nationalmuseum“ in Zagreb bis zum Schlusse des Jahres 1900 eingesendet wurden. Glasnik naravosl. druzt., Zagreb, **15**, 1904, (221-224).

Rogers, Charles G. A chameleon-like change in *Diemyctylus*. (Preliminary report.) Wood's Holl, Mass., Mar. Biol. Lab. Bull., **10**, 1906, (165-170).

Rollinat, Raymond. Observations sur la tendance vers l'ovoviviparité de quelques Sauriens et Ophidiens de la France centrale. Paris, Mém. soc. zool., **17**, 1904, [1905], (30-41, av. 2 pl.).

Rosenhauch, E. und Levy, O. Entwicklungsmechanische Studien am Embryo von *Triton taeniatus*. Kosmos, Lwów, **31**, 1906, (285-291).

Roux, J. Synopsis of the toads of the genus *Nectophryne* B. & P., with special remarks on some known species and description of a new species from German East Africa. London, Proc. Zool. Soc., **1906**, (58-65, pl. ii).

Rückert. Entwicklung der extra-embryonalen Gefässe der Reptilien. [In] **Hertwig**, Handbuch der Entwicklungslehre der Wirbeltiere Lief. 29.30. 1906, (1164-1202).

Ruffini, A. Contributo alla conoscenza della ontogenesi degli Anfibi anuri ed urodeli. Siena, Atti Acc. fisioeritici, Ser. 4, **18**, 1906, (493-494).

Sabanejev, L. L. v. Elpatjevskij, W. S.

Sacco, F. Les étages et les faunes du bassin tertiaire du Piémont. Paris, Bul. Soc. géol., sér. 4, **5**, 1905, (893-916).

Salvi, G[ünio]. Untersuchungen über den präoralen Darm bei den Sauriern. (*Gongylus ocellatus*.) Anat. Hefte, Wiesbaden, Abt. 1, **31**, 1906, (349-406, mit 4 [2] Taf.).

[**Satunin, K. A.**] Сатунинъ, К. А. О герпетологической фаунѣ Кавказскаго края. [Ueber die herpetologische Fauna des Kaukasus-Gebiets.] Tiflis, Izv. Kavk. Otd. Russ. Geogr. Obšč., **18**, 1905-1906, (133-140).

(**Schaper, Alfred.** A short remark upon W. H. Lewis' "Experimental studies on the development of the eye in Amphibia." Wood's Holl, Mass., Mar. Biol. Lab. Bull., **9**, 1905, (245-248). [5607].)

Scharff, R. F. [and others.] The exploration of the caves of co. Clare, Dublin, Trans. R. Irish Acad., **33**, 1906, (1-7, pls.).

Schmalhausen, J. J. Nachträgliche Bemerkung zu der Abhandlung „Die Entwicklung der Lungen bei *Tropidonotus natrix*“ in d. Ztschr., Bd 27, Nr. 20-21, Oktober 1905. Anat. Anz., Jena, **29**, 1906, (151).

Schmiedeknecht, O. Die Wirbelthiere Europa's mit Berücksichtigung der Faunen von Vorderasien und Nordafrika. Jena, 1906, (vi + 470). [Review by F., F. B. Nature, London, 1906, **74**, (463).]

Schmitt, J. Monographie de l'Île d'Anticosti. Paris, 1904, (367). 8vo.

Schnee. Die Legeplätze der Krokodile. Aus d. Natur, Stuttgart, **2**, 1906, (248-251).

Schorler, B., Thallwitz et Schiller, K. Pflanzen- und Tierwelt des Moritzburger Grosssteiches bei Dresden. Ann. Biol., Lacustre, **1**, 1906, (193-311).

Schweizerbarth, Elise Melitta von. Eine rote Farbenvarietät von *Salaman-dra maculosa* Laur. Frankfurt a. M., Ber. Senckenb. Ges., **1906**, (119-121, 1 Taf.).

Seelye, Anne Barrows. Circulatory and respiratory systems of *Desmognathus fusca*. Boston, Mass., Proc. Soc. Nat. Hist., **32**, 1906, (335-358 + 4 l., pl.).

Sergi, S. Le système nerveux central dans les mouvements de la *Testudo graeca*. Arch. ital. biol., Torino, **45**, 1906, (90-128).

Shelford, R. A note on "flying" snakes. London, Proc. Zool. Soc., **1906**, (227-230).

Siebenrock, F. 1. Schildkröten. [In] **Penther, A. und Zederbauer, E.** Ergebnisse einer naturwissenschaftlichen Reise zum Erdschias-Dagh (Kleinasien). Wien, Ann. Nat. Hist. Hofmus., **20**, 1905, (309-310).

Siebenrock, F. 2. Krokodile und Schildkröten [In] Ergebnisse einer Zool. Forschungsreise von Dr. Franz Werner nach Aegypten und dem ägyptischen Sudan. Abstract. Wien, Anz. Ak. Wiss., **1906**, (263-264).

Siebenrock, F. 3. Eine neue *Cinosternum*-Art aus Florida. Zool. Anz., Leipzig, **30**, 1906, (727-728).

Siebenrock, F. 4. Schildkröten aus Süd Mexiko. Zool. Anz., Leipzig, **30**, 1906, (94-102).

Siebenrock, F. 5. Bemerkungen zu zwei seltenen Schildkröten. Zool. Anz., Leipzig, **30**, 1906, (127-130).

Siebenrock, F. 6. Zur Kenntnis der Schildkrötenfauna der Insel Hainan. Zool. Anz., Leipzig, **30**, 1906, (578-586).

Siebenrock, F. 7. Zur Kenntnis der mediterranen *Testudo*-Arten und über ihre Verbreitung in Europa. Zool. Anz., Leipzig, **30**, 1906, (847-854).

Siebenrock, F. 8. Schildkröten von Ostafrika und Madagaskar. (Alfred Voeltzkow, Reise in Ostafrika. Wissenschaftliche Ergebnisse. Bd 2, H. 1.) Stuttgart (Schweizerbart), 1906, (v + 40, mit 5 Taf.). 31 cm. 8 M.

Smirnow, A[lexei] E. von. Die prolongierte Osmiummethode nach Fr. Kopsch als ein Mittel zur Darstellung einiger Strukturen in den Erythrocyten des *Siredon pisciformis*. Anat. Anz., Jena, **29**, 1906, (236-241).

Smith, Bertram G. 1. Preliminary report on the embryology of *Cryptobranchus alleganiensis*. [Contributions from the Zoological Laboratory of the University of Michigan, No. **105**.] Wood's Holl, Mass., Mar. Biol. Lab. Bull., **11**, 1906, (146-164, pl.).

Smith, B. G. 2. Notes on the ypsiloid apparatus of *Cryptobranchus*. Science, New York, N.Y., N. Ser., **24**, 1906, (23).

Spemann, Hans. 1. Ueber embryonale Transplantation. (Vortrag . . .) Natw. Rdsch., Braunschweig, **21**, 1906, (543-546, 557-560).

Spemann, H. 2. Ueber eine neue Methode der embryonalen Transplantation. Verh. D. zool. Ges., Leipzig, **16**, 1906, (195-202).

Spengel, J[oh.] W[ilh.]. Lebendig-gebärende Frösche. Zool. Anz., Leipzig, **26**, 1906, (801-802).

Spurrell, H. G. F. The articulation of the vertebrate jaw. London, Proc. Zool. Soc., **1906**, **1**, (114-122).

Srdinko, O. V. Circulation du sang dans les capsules surrénales des vertébrés. Prag, Bull. Ac. Sc. Franç. Jos., **10**, 1905, (71-87, 5 pls.).

Stefani (De) Perez, T. Note su alenni Batraci della Sicilia. Naturalista sicil., Palermo, **17**, 1905, (245-249).

Steindachner, F. 1. Eidechsen, Schlangen und Batrachier. [In] **Penther, A. und Zederbauer, E.** Ergebnisse einer naturwissenschaftlichen Reise zum Erdschias-Dagh (Kleinasien). Wien, Ann. Nat. Hist. Hofmus., **20**, 1905, (307-309).

Steindachner, F. 2. Bemerkungen zu *Liparophis bedoti* Perr. und *Lachesis monticola* Gthr. Wien, Anz. Ak. Wiss., **1906**, (299).

Steinitz, Ernst. 1. Ueber den Einfluss der Elimination der embryonalen Augenblasen auf die Entwicklung des gesamten Organismus, und im besonderen der Kopfreion und des Gehirns bei *Rana fusca*. Diss. Breslau (Genossenschafts-Buchdruckerei), 1904, (30). 22 cm.

Steinitz, E. 2. Ueber den Einfluss der Elimination der embryonalen Augenblasen auf die Entwicklung des Gesamtorganismus beim Frosche. Arch. EntwMech., Leipzig, **20**, 1906, (537-578, 2 Taf.).

Stejneger, Leonhard. 1. A new lizard of the genus *Phrynosoma*, from Mexico. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **29**, 1906, (565-567).

Stejneger, L. 2. A new salamander from North Carolina. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, 1906, (559-562).

Stejneger, L. 3. A new tree toad from Costa Rica. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, 1906, (817-818).

Sterzi, A[ndrea] I[ppolito]. I gruppi periferici della midolla spinale dei Cheloni. Pisa, Atti Soc. tosc. sc. nat., Pr. verb., **13**, adunanza del 5 luglio 1903, (156-157).

Stolley, E[rnst]. Ueber einen *Ichthyosaurus* von Essenrode. Braunschweig, Jahresber. Ver. Natw., **14**, 1906, (79-83).

Stone, Witmer. Notes on reptiles and batrachians of Pennsylvania, New Jersey, and Delaware. Amer. Nat., Boston, Mass., **40**, 1906, (159-170).

Streeter, G. L. Experiments on the developing ear vesicle of the tadpole. Brit. Med. J., London, **1906**, 2, (1702).

Stromsten, Frank A. A contribution to the anatomy and development of the venous system of Chelonia. Amer. J. Anat., Baltimore, Md., **4**, 1905, (453-485).

Suchard, E. 1. Des vaisseaux sanguins et lymphatiques du pounnon de la grenouille. Paris, Arch. anat. microsc., **7**, 1904, (239-256).

(N-9720 d)

Suchard, E. 2. Vaisseaux lymphatiques du pounnon du lézard. Arch. anat. microsc., Paris, **9**, 1906, (1-20).

Surface, H[arvey] A[dam]. The serpents of Pennsylvania. Pennsylvania, Dept. Agric., Mon. Bull. Div. Zool., **4**, 1906, (113-208, pl.).

Terry. The nasal skeleton of *Amblystoma punctatum*. St. Louis, Mo., Trans. Acad. Sci., **16**, 1906, (95-124, with pls.).

Thévenin, A[rmand]. 1. Note sur des fossiles de Madagascar recueillis par le Dr. Decorse. Bull. Muséum, Paris, **1906**, (334-336).

Thévenin, A. 2. Amphibiens et Reptiles du terrain houiller de France. Ann. paléont., Paris, **1**, 1906, (145-163, av. fig.).

Thyng, F. W. Squamosal bone in tetrapodous vertebrata. Boston, Mass., Proc. Soc. Nat. Hist., **32**, 1906, (387-419, 3 pls.).

[Tiesler], W. Die Intelligenz der Schlangen. Natur u. Haus, Dresden, **14**, 1906, (213-216, 239).

Tirant, G. Autres serpents, autres lézards, autres crocodiles cités pour l'Indo-Chine. Liste des tortues de l'Indo-Chine, Mission Pavie, **3**, 1904, (482-484, 488-489, 491, 493-494).

Tofahr, Otto. Etwas über den Mauer-gecko und seine embryonale Entwicklung. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (287-288, 295-296).

Toit, Alex. L. du. The Stormberg formation in the Cape Colony. London, Rep. Brit. Ass., **1905**, [1906], (394-396).

Tomasini, Otto Ritter von. Verbreitung und Aufenthalt der echten Spitzkopfeidechse. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (55-56, 63-65).

Tornier, Gustav. 1. Experimentelles über Eihäute und Rückenbildung bei Frosch- und Schwanzlurchen. (Vorl. Mitt.) Berlin, SitzBer. Ges. natf. Freunde, **1906**, (125-134).

Tornier, G. 2. Kampf der Gewebe im Regenerat bei Begünstigung der Hautregeneration. Arch. EntwMech., Leipzig, **22**, 1906, (348-369).

Tornier, G. 3. Der Kampf der Gewebe im Regenerat bei Missverhalten des Unterhautbindegewebes. Arch.

EntwMech., Leipzig, **22** 1906, (461-172).

Tretjakoff, D[mitrij]. **1.** Der Musculus protractor lentis im Urodelenauge. Anat. Anz., Jena, **28**, 1906, (25-32).

Tretjakoff, D. **2.** Die vordere Augenhälfte des Frosches. Zs. wiss. Zool., Leipzig, **80**, 1906, (327-410, 3 Taf.).

Trinci, Giulio. La composizione dei nervi spinali degli Anfibi raffrontata a quella dei pesci. Mon. zool. ital., Firenze, **17**, 1906, (167-169).

Tuerckheim, Wilhelm. Ueber das Rückenmark des „*Cryptobranchus japonicus*“. Diss. Leipzig (Druck v. B. Georgi), 1903 (23, 9 Taf.). 22 cm.

Tur, Jan. **1.** Note sur les formations gastruléennes chez *Lacerta ocellata* Daud. C.-R. ass. anat., Nancy, **1905**, 1906, (105-107).

[**Tur**, I. J.] [Туръ, П. Я.] **2.** Двойной зародынь ящерицы изъ о-ва Явы. *Mabuia multifasciata* Kuhl. [Ein doppelter Eidechsen-Embryo von Java. *Mabuia multifasciata* Kuhl.] Varšava, Trd. obsč. jest., **15**, 1904, [1905], (1-36, mit 33 Fig. i. T. u. 1 Taf.).

Unger, Ludwig. Untersuchungen über die Morphologie und Faserung des Reptiliengehirns. Mit Unterstützung d. kais. Ak. d. Wiss. Mit einem Vorworte v. E. Zuckerkandl. **1.** Das Vorderhirn des Gecko. Anat. Hefte, Wiesbaden, Abt. 1, **31**, 1906, (269-348, 12 [6] Taf.).

Ussoff, S. A. Vergleichend embryologische Studien des axialen Skelettes. (Reptilia.) Anat. Anz., Jena, **29**, 1906, (561-568).

Vidal, L. M. et **Depéret**, C. Contribution à l'étude de l'oligocène de Catalogne. Barcelona, Mem. R. Ac. Cs., **5**, 1906, (1-17).

Virchow, Hans. Die vordere Augenhälfte des Frosches. Berlin, SitzBer. Ges. natf. Freunde, **1906**, (199-203).

Völker, O. O vývoji spino-occipitálního nervstva. [Development of spino-occipital nerves.] Prag, Rozpr. České Ak. Frant. Jos., **14**, 1906, No. 5, (1-46, pl.).

Vosseler, J[ulius]. Die „Springeidechse“ (*Lygosoma sunlerallii*) als Gegengift gegen Schlangenbisse. Pflanze, Tanga, **2**, 1906, (68-72).

Waele, H. De. Notes sur l'embryologie de l'œil des Urodèles. Intern. Monatschr. Anat., Leipzig, **22**, 1905, (196-208, 1 Taf.).

Waite, Edgar R[avenswood]. **1.** An addition to the Lacertilian fauna of the Solomon Islands. Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (13-16).

Waite, E. R. **2.** The osteology of the New Guinea turtle (*Carettochelys insculpta* Ramsay). Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (110-118).

Wall, F. **1.** The poisonous snakes of India and how to recognise them. Bombay, J. Nat. Hist. Soc., **17**, 1906, (51-71, 299-333).

Wall, F. **2.** The snake and its natural foes. Bombay, J. Nat. Hist. Soc., **17**, 1906, (375-395).

Wall, F. **3.** A new snake (*Melanelaps mepherstoni*) from the Aden Hinterland. Bombay, J. Nat. Hist. Soc., **17**, 1906, (27-28).

Wall, F. **4.** A new himalayan snake (*Lycodon mackinnoni*). Bombay, J. Nat. Hist. Soc., **17**, 1906 (29-30).

Wall, F. **5.** A popular treatise on the common Indian snakes. Part II. Bombay, J. Nat. Hist. Soc., **17**, 1906, (1-8 pl. ii); (259-273, pl. iii).

Warfvinge, Erik. Beiträge zur Kenntnis der spinalen und sympathischen Ganglienzellen des Frosches (*Rana temporaria*). Arch. mikr. Anat., Bonn, **68**, 1906, (432-440, 1 Taf.).

(**Warren**, John. The development of the paraphysis and the pineal region in *Necturus maculatus*. [With bibliography.] Amer. J. Anat., Baltimore, Md., **5**, 1905, (1-27, with 23 text-figs.). [5615].)

Watkinson, Grace B. The cranial nerves of *Varanus birittatus*. Morph. Jahrb., Leipzig, **35**, 1906, (450-472, 3 Taf.).

Wemer, Paul. Ein kletternder Grasfrosch. Zool. Beob., Frankfurt a. M., **47**, 1906, (345-346).

Werber, Isaak. Regeneration der Kiefer bei Reptilien und Amphibien. Arch. EntwMech., Leipzig, **22**, 1906, (1-14, 2 Taf.).

Werner, F[rantz]. **1.** Bemerkung über die systematische Stellung der

Lacerta horrathi. Zool. Anz., Leipzig, **30**, 1906, (55).

Werner, F. 2. Neue Reptilien aus Deutsch-Ostafrika. Zool. Anz., Leipzig, **30**, 1906, (53-55).

Werner, F. 3. Die nördlichsten Reptilien und Batrachier. [In] Fauna Arctica. Bd 4. Lfg 3. Jena (G. Fischer), 1906, (527-544).

Werner, F. 4. Bericht über die wissenschaftl. Leistungen im Gebiete der Reptilia und Amphibia für 1896. Arch. Natg., Berlin, **65**, Bd 2, H. 1, 1899 [1906], (1-78).

Werner, F. 5. Jahresbericht über Reptilia und Amphibia für 1897. Arch. Natg., Berlin, **66**, Bd 2, H. 1, 1900 [1906], (1-66).—Desgl. für 1898, T.c. (239-367).

Werner, F. 6. Über Hörnerbildungen bei Reptilien. Verh. Ges. D. Natf., Leipzig, **77**, 1906, (202-204).

Werner, F. 7. Einige Beobachtungen an Schlangen, Krokodilen und Taggeckonen. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (506-508, 519-520).

Whipple, Inez L. 1. The naso-labial groove of lungless salamanders. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **11**, 1906, (1-26).

Whipple, I. L. 2. The ypsiloid apparatus of Urodeles. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **10**, 1906, (255-297).

Wichand, Bernhard. 1. Die Geburtshelferkröte, ihre Pflege und Zucht im Terrarium. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (420-421, 430-431).

Wichand, B. 2. Ueber Neotenie bei Tritonen. Bl. Aquarienkunde, Magdeburg, **17**, 1906, (183-184, 197-199, 205-208).

Wieland, G[eorge] R[eber]. 1. Plastron of the *Protosteginae*. Pittsburg, Pa., Ann. Carnegie Mus., **4**, 1906, (8-14, pl.).

Wieland, G. R. 2. The osteology of *Protostega*. Pittsburg, Pa., Mem. Carnegie Mus., **2**, 1906, (279-304, pl.).

Wieland, G. R. 3. Dinosaurian gastroliths. Science, New York, N. Y., (N. Ser.), **23**, 1906, (819-821).

(x. 9720 d)

Willey, A. 1. Viviparity of *Oophotis ceylanica* and oviparity of *Ceratophora stoddartii*. Spolia Zeylanica, **3**, 1906, (235-237, pl.).

Willey, A. 3. Terrestrial *Colubridae* of Ceylon. Spolia Zeylanica, **3**, 1906, (227-234).

Williston, S[amuel] W[endell]. 1. North American plesiosaurs: *Elasmosaurus*, *Cimoliosaurus*, and *Polycotylus*. Amer. J. Sci., New Haven, Conn., (Ser. 1), **21**, 1906, (221-236, pl.).

Williston, S. W. 2. American amphiœlian crocodiles. J. Geol., Chicago, Ill., **14**, 1906, (1-17).

Williston, S. W. 3. The *Hallopus*, *Baptanodon*, and *Atlantosaurus* beds of Marsh. J. Geol., Chicago, Ill., **13**, 1905, (338-350).

Wintrebert, P. 1. Sur l'anatomie topographique des ganglions spinaux et l'origine des nerfs dorsaux chez les batraciens. Paris, C.-R. soc. biol., **60**, 1906, (216-218).

Wintrebert, P. 2. Sur l'accomplissement régulier des fonctions de nutrition, des processus d'ontogenèse, de régénération et de métamorphose, chez des larves d'alytes, en l'absence d'une grande étendue de la moelle. Paris, C.-R. soc. biol., **60**, 1906, (70-72).

Wintrebert, P. 3. La métamorphose de *Salamandra maculosa* Laur., en dehors de la moelle et des ganglions spinaux. Etude histologique. Paris, C.-R. soc. biol., **60**, 1906, (73-71).

Wintrebert, P. 4. Sur l'indépendance de la métamorphose vis-à-vis du système nerveux chez les batraciens. Paris, C.-R. Acad. sci., **141**, 1905, (1262-1265).

Wintrebert, P. 5. Influence d'une faible quantité d'émanation du radium sur le développement et la métamorphose des batraciens. Paris, C.-R. Acad. sci., **143**, 1906, (1259-1262).

Wintrebert, P. 6. De l'influence des eaux radioactives de Plombières sur la croissance et la métamorphose des larves de *Rana viridis*. Paris, C.-R. soc. biol., **60**, 1906, (295-298).

Wintrebert, P. 7. Sur la distribution partielle des racines motrices aux ganglions spinaux chez les batraciens. Paris, C.-R. soc. biol., **60**, 1906, (214-216).

Wintrebert, P. 8. Sur le passage à travers les ganglions spinaux de faisceaux provenant des racines motrices et se rendant aux nerfs dorsaux, chez les batraciens. Paris, C.-R. Acad. sci., **142**, 1906, (348-350).

Winwood, H. H. List of British triassic fossils in the Moore collection, Bath Museum. London, Rep. Brit. Ass., **1905**, [1906], (161).

Wolterstorff, W. 1. Über *Callula verrucosa* Boul. von Tsingtan. Zool. Anz., Leipzig, **30**, 1906, (554-558).

Wolterstorff, W. 2. Über *Triton pyrrhogaster* subsp. *orientalis* Dav. Zool. Anz., Leipzig, **30**, 1906, (558-563).

Wolterstorff, W. 3. Ueber den Formenkreis des *Triton* (= *Molge*) *vittatus* Gray. Zool. Anz., Leipzig, **29**, 1906, (619-654).

Wolterstorff, W. 4. Ueber die von Herrn Dr. Kreyenberg in Ostasien gesammelten Frosch- und Schwanzlurche. Magdeburg, Abh. Mus. Natk., **1**, 1906, (123-164, 1 pl.).

Wolterstorff, W. 5. Zur Entstehung der Zweigformen bei den Urodelen. Magdeburg, Abh. Mus. Natk., **1**, 1906, (206-210).

Woodland, W. A suggestion concerning the origin and significance of the "renal portal system," with an appendix relating to the production of sub-abdominal veins. London, Proc. Zool. Soc., **1906**, (886-901).

Woodward, A. S. 1. Exhibition of a new drawing of the skeleton of the Triassic Rhynchocephalian, *Rhynchosaurus articeps*. London, Proc. Zool. Soc., **1906**, (125).

Woodward, A. S. 2. On a tooth of *Ceratodus* and a Dinosaurian claw from the Lower Jurassic of Victoria, Australia. Ann. Mag. Nat. Hist., London, **18**, 1906, (1-3, pl. i).

Woodward, A. S. 3. On two specimens of *Ichthyosaurus* showing contained embryos, British Museum. Geol. Mag., London, (5), **3**, 1906, (443-444, 1 pl.).

Woodward, Henry ? [as H. W.] · A large-headed Dinosaur. Nature, London, **73**, 1906, (228-229, 1 text fig.).

Yerkes, Robert [Mearns]. Space perception of tortoises. J. Comp. Neur., Granville, Ohio, **14**, 1904, (17-26).

Yung, E. Variations de longueur de l'intestin chez les grenouilles. Arch. Sci. Phys., Genève, **21**, 1906, (535-536).

Zeller, E. von. Zoologisches Tagebuch. Hrsg. v. E. Jacob. [Paarung u. Fortpflanzung von Urodelen.] Wochenschr. Aquarienkunde, Braunschweig, **3**, 1906, (284-286, 298-299, 309-310, 321-322, 332-333, 345-347).

Zugmayer, Erich. Beiträge zur Herpetologie von Vorder-Asien. Zool. Jahrb., Jena, Abt. f. Syst., **23**, 1906, (449-486).

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Viviparity, *Cophotis*; **Willey, 1.**

Lebendiggebärende Frösche; **Spengel.**

Ovoviviparité de quelques Sauriens et Ophidiens de la France centrale; **Rollinat.**

Brutpflege, *Phyllomedusa hypochondrialis*; **Musshoff.**

Brutpflege, männliches Tier, *Alytes*; **Kammerer.**

Brutpflege, Grasfrösche; **Riepe.**

Habits, sea snakes; **Lefroy.**

Süßwasserschildkröten; **Klingelhöffer.**

Lebensweise, Reptilien und Amphibien; **Koenen.**

Lebensweise, Schlangen, Krokodile und Taggeckonen; **Werner, 7.**

Habits, Indian tortoises; **Annandale, 2.**

Lebensweise und Fortpflanzung, Reptilien und Amphibien Niederhessens; **Grimme.**

Habits, tortoises; **Newman, 1.**

Habits, *Anniella*; **Coe.**

Habits, *Necturus maculosus*; **Eycleshymer, 1.**

Gastrolithic habits, *Dinosaurs* and other reptiles; **Wieland, 3.**

Intelligenz der Schlangen; **Tiesler.**

Space perception, tortoises; **Yerkes.**

Wetter und Erdbeben anzeigende Tiere (Ungarisch); **Méhely.**

Pugnacity, *Rana esculenta*; **Adams.**

Flight of "flying" snakes; **Shelford.**

Natural foes of the snake; **Wall, 2.**

Chameleon-like change, *Diemyctylus*; **Rogers.**

Coloration, *Desmognathus fusca*; **Fowler, 3.**

Antimimistische Anpassungen bei den Thieren (Russ.); **Nikol'skij.**

Adaptive correlation between autotomy and protective secretion; **Hubbard.**

Rasseln, Klapperschlangen; **König, 3.**

VARIATION, TERATOLOGY, HEREDITY, EVOLUTION. 5623

Variation.

Variatione del *Bufo viridis*, *mauritanicus*, *regularis*; **Camerano.**

Meristic variations, *Bufo vulgaris*; **Goto.**

Variation, arterial system, Anura; **Crawshaw.**

Variation de longueur de l'intestine, *Rana fusca* and *esculenta*; **Yung.**

Variabilität der Verdauungsröhre; **Babák, 2.**

Variation in colour; **Levčuk.**

Farbenvarietät von *Salamandra maculosa*; **Schweizerbarth.**

Variation of colour, *Coluber ocellatus*, *Dipsadomorphus cynodon*; **Hewitt**.

Colour variation in *Desmognathus fusca*; **Fowler, 3**.

Eigentümlich gefärbte und gezeichnete, besonders melanische Grasfrösche; **Klunzinger**.

(Anomalie de carapace, cestode d'Europe; **Blanchard**.)

Teratology.

Monstrous reptiles and amphibia, 2-headed, &c.; **Blatchley**.

Double embryo, Florida alligator; **Reese, 3**.

Doppelter Eidechsen-Embryo von Java. *Mabuia multifasciata* Kuhl.; **Tur, 2**.

Hypermelie, Frosch; **Bender**.

Supernumerary tail, *Lacerta ocellata*; **Chaignon**.

Scute and plate abnormalities, *Chelonia*; **Newman, 2**.

Coincidence of abnormalities in scutes and underlying bony plates, *Chelonia*; **Newman, 3**.

Heredity.

Kreuzungsversuche, *Triton blasii*; **Kummer und Wolterstorff**.

Evolution.

Phylogeny, Reptilia; **Jaekel, 2**.

†Anpassungserscheinungen, *Metriourhynchus*; **Arthaber**.

Evolution, *Cnemidophorus*, Mexican spp.; **Gadow**.

Antimimistische Anpassungen (Russ.); **Nikoliskij**.

FAUNAE. 5627

A. ACTUAL.

EUROPE. d

Europa, Reptilien; **Schmiedeknecht**.

Mittlemeer, *Testudo*-Arten und ihre Verbreitung in Europa; **Siebenrock, 7**.

European Russia. db

Krim, Kubangebiet, Gouvernements Vohlynien und Warschau. Reptilien u. Amphibien; **Brauner, 2**.

Gouvernements Suwalki, Minsk, Podolsk, Tschernigov, Bessarabien, Cherson, Ekaterinoslav und Dnjepr-Kreis des Gouv. Taurien, Reptilien und Amphibien; **Brauner, 1**.

Caucasus, herpetologische Fauna; **Satunin**.

German Empire. de

Niederhessen, Reptilien und Amphibien; **Grimme**.

Bayern, *Neoturus maculatus* Raf.; **Lankes**.

Dresden, Moritzburger Grossteich. Ophidien 1 sp. Amphibien 8 spp.; **Schorler, Thallwitz und Schiller**.

Hannover, list, reptiles and amphibia 20 sp.; **Löns**.

Deutschland, Vorkommen der Mauer-eidechse; **Ewald**.

Westpreussen, *Emys europaea*; **Dahms**.

British Islands. de

Scotland, Tay Basin and Strathmore reptiles and amphibia 8 spp.; **Harvie-Brown**.

Ireland, co. Louth, *Lacerta vivipara* caught; **Pentland**.

France. df

Pacy-sur-Eure, faune erpétologique (Lacertilia, ophidia, batrachia); **Barbier, 2**.

France, Marcoing *Pelodytes* captured annually; **Godon**.

Spain. dg

Aragon, Amphibia and reptiles, list; **Navás**.

South Europe.

Sicilia, note su alcuni Batraci; **Stefani**.

Dalmatia, reptiles, additions; **Kolombatović**.

- ASIA. e
- Asiatic Russia.** ea
 Russisches Reich, Ergänzungen zur herpetologischen Fauna; **Elpatjevskij** und **Sabanejev**.
 Russisches Reich, *Lithorhynchus* sp. n., *Agama* sp. n.; **Elpatjevskij** und **Sabanejev**.
 Verzeichnis der von der Balchaschsee-Expedition an den Küsten des Balchasch-Sees und Ili-Flusses gesammelten Amphibien und Reptilien (Russ.); **Elpatjevskij**.
 Reise auf die Insel Čeleken (Russ.); **Levčuk**.
- China, etc.** eb
 Insel Hainan, *Trionyx* sp. n.; **Siebenrock**, 6.
 Yunnan reptiles, 3 spp. n.; **Boulenger**, 1, 6.
 Ostasien, 22 sp. Amphibia; **Wolterstorff**, 4.
- Cochin China, etc.** cd
 Vorderasien, Herpetologie; **Zugmayer**.
 Vorderasien, Reptilien; **Schmiedeknecht**.
 Indo-Chine, serpents, lézards, crocodiles, tortues; **Tirant**.
 Indo-Chine, batraciens, serpents, crocodiles, lézards; **Mocquard**, 4.
 Indo-Chine, reptiles; **Mocquard**, 5.
- British India, etc.** cf
 India, common snakes; **Wall**, 5.
 Eastern Himalayas, new Gecko; **Annandale**, 3.
 India, tortoises; **Annandale**, 2.
 Himalaya, *Lycodon* sp. n.; **Wall**, 4.
 India, *Ixalus* sp. n., *Rhacophorus* sp. n.; **Boulenger**, 11.
 Ceylon, *Ophidia*, list; **Willey**, 3.
 Maldives and Laccadives, Amphibia 2 spp., Reptilia 11 sp.; **Gardiner**.
- Asiatic Turkey, etc.** ei
 Kleinasien, Eidechsen, Schlangen und Batrachier 15 spp.; **Steindachner**, 1; Schildkröten 2 spp.; **Siebenrock**, 1.
 Aden Hinterland, *Melanellaps* sp. n.; **Wall**, 3.
- AFRICA. f
- Ostafrika und Madagascar, Schildkröten; **Siebenrock**, 8.
 Afrique (et Madagascar), Lacertiliens 5 spp. n., Anoure 1 sp. n.; **Mocquard**, 2.
 Nordafrika, Reptilien; **Schmiedeknecht**.
 Maroc, *Discoglossus pietus*; **Deyrolle**.
 Tunisie, Catalogue des reptiles et Batraciens; **Mayet**.
 Somaliland, *Glaucouia* sp. n.; **Boulenger**, 3.
 British East Africa, *Algiroides*, *Leptodira*, *Bufo* spp. n.; **Boulenger**, 1.
 Deutsch Ostafrika, *Gerrhosaurus* sp. n., *Gonionotophis* sp. n.; **Werner**, 2.
 Mount Ruwenzori, *Chamaeleo* sp. n.; **Boulenger**, 2.
Atheris sp. n.; **Boulenger**, 5.
 West Africa, Squamata 13 spp. n., batrachia anura 6 spp. n.; **Boulenger**, 12 and 13.
 South Cameroon, *Arthroleptis* 3 spp. n., *Cardioglossa* 1 sp. n., *Hylambates* 2 spp. n., *Fana*, *Rappia* 1 sp. n.; **Boulenger**, 9.
- South Africa** fg
 Mashonaland, *Rhampholeon* sp. n.; **Boulenger**, 4.
 S. Africa, *Homopus* sp. n.; **Duerden**, 2.
 S. Africa, new cynodont, *Elurosuchus browni*; **Broom**, 4.
- NORTH AMERICA g
 Ile d'Anticosti, absence of amphibia and reptiles; **Schmitt**.
 New Jersey, Cape May co., *Clemmys mühlenbergi*; **Fowler**, 2.

Pennsylvania, New Jersey and Delaware, notes on reptiles and batrachians; **Stone**.

Pennsylvania, *Ophidia*; **Surface**.

North Carolina, *Plethodon* sp. n.; **Stejneger**, 2.

Washington, Mount Rainier, *Plethodon* sp. n.; v. **Denburgh**, 2.

California, *Hypsiglena ochrorhynchos*; **van Denburgh**, 1.

California, Los Angeles, *Autodax lugubris*; **Miller**.

Florida Keys, reptilia, and chelonian sp. n.; **Fowler**, 1.

CENTRAL AND SOUTH AMERICA AND WEST INDIES h

Mexico, *Phrynosoma* sp. n.; **Stejneger**, 1.

Mexico, *Cnemidophorus* spp.; **Gadow**.
Südmexiko, Schildkröten; **Siebenrock**, 4.

Yucatan, reptilia 33 spp. 2 spp. n., amphibia 7 spp.; **Barbour and Cole**.

Costa Rica, *Hyla* sp. n.; **Stejneger**, 3.

Panama Savanna, Reptilia and Amphibia, 3 spp. n.; **Barbour**, 1.

Bahama Islands, snakes; **Barbour**, 2.

Amérique du Sud, lacs des hauts plateaux, Anoures 2, spp. **Neveu-Lemaire**.

Bolivia, Argentina, Peru, 20 sp. anura, 4 spp. n.; **Andersson**.

Brazil, *Chelonia*; **Goeldi**.

AUSTRALASIA i

Nova Guinea, Ecaudata spp. n.; **Kampen**.

Marcus Island, *Perochirus articulatus* and *Ablepharus* sp.; **Bryan**.

Solomon Islands, *Gymnodactylus louisianensis*; **Waite**, 1.

S. Australia, *Denisonia* sp. n., *Varamus* sp. n.; **Boulenger**, 7.

Wilson's Promontory, reptiles and amphibia 10 spp.; **Kershaw**.

New Zealand *Lygosoma* 2 spp. n.; **Boulenger**, 8.

ARCTIC

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Die nördlichsten Reptilien und Batrachier; **Werner**, 3.

B. FOSSIL.

Remains from caves, Co. Clare; **Scharff** and others.

Cretacé et Tertiaire, Patagonie, *Dinosauriens*, etc.; **Ameghino**.

Plesiosaurus-Reste aus der Wolga-Stufe an der Lena in Sibirien; **Jakovlev**, 1.

Notes sur les mosasauriens (Russ.); **Jakovlev**, 2.

America, amphicoelian crocodiles, 1 sp. n.; **Williston**, 2.

Terrain houiller, France, *Sauramus* sp. n., *Protiriton* sp. n.; **Thévenin**, 2.

Tertiary, Fayûm, Egypt, *Chelonia*; **Andrews**.

Terrains néogènes, Plaine du Comtat (Avignon); **Joleaud**.

Tertiary, N. America, 2 spp. n., turtles; **Hay**, 3.

Pleistocene, Maryland, *Chelonia* 2 spp.; **Hay**, 1.

Tertiary, San Morales, Salamanca, reptilian fragments (cusuchian, rhynchocephalian, lepidosaurian); **Miquel**.

Oligocene, Catalogne, *Emys* sp.; **Vidal et Depéret**.

Oligocène inférieur, Tarrega, chéloniens 2 spp., crocodiliens 1 sp.; **Depéret**.

Miocene, Nebraska and Montana, *Testudo* spp. n.; **Hay**, 2.

Eocene, Egypt, *Crocodylia* 6 spp., 4 spp. n., *Chelonia* 9 spp. 2 spp. n., *Ophidia* 3 spp.; **Andrews**.

Eocén, Monte Bolca, *Archaeophis procerus* Mass.; **Janensch**.

Éocène, Loire-inférieure, *Trionyx* sp., *Crocodylus* sp.; **Leriche**.

Jurassique, Saint-Seine-l'Abbaye, *Teleidosaurus* sp. n.; **Collet**.

Lower Jurassic, Victoria, Australia, Dinosaurian claw; **Woodward**, 2.

Karoo beds, S. Africa, characteristic reptilia; **Broom**, 1.

Karoo, Stormberg formation, dinosaurs spp.; **du Toit**.

Permian, Nottinghamshire, footprints; **Hickling**.

Permian reptile unnamed; **O[sborn]**, **3**.

Trias and Permian, N. America, *Labyrinthodontidae*, review and 2 n. spp.; **Branson**.

Trias, British Isles, reptilian footprints; **Beasley**.

Trias, British Isles, Moore collection, Bath Museum; **Winwood**.

Trias, S. Africa, Rhynchocephalia gen. n.; **Broom**, **9**.

Middle Triassic of Nevada; new marine reptile incert. sedis; **Merriam**.

Cretaceous, Alberta, Chelonian gen. n.; **Lambe**, **2**.

Kreideformation, böhm., Synopsis der Saurier; **Fritsch**.

Crétacé, Madagascar, deux gisements de Dinosauriens; **Thévenin**, **1**.

Laramie beds, Montana, *Basilemys* sp. n.; **Riggs**.

Niobrara, Cretaceous, Kansas, *Elasmosaurus* 2 spp. n.; **Williston**, **1**.

Siluriano, Moncayo, *Chirosaurus* sp. n.; **Navás**.

III.—SYSTEMATIC. 5631

Bericht über die wissenschaftl. Leistungen im Gebiete der Reptilia und Amphibia für 1896. **WERNER**, Arch. Natg., **65**, Bd 2, 1899, [1906], (1-78).

Jahresbericht über Reptilia und Amphibia für 1897. **WERNER**, *op. cit.* **66**, Bd 2, H. 1, 1900, [1906], (1-66). — Desgl. für 1898, T.c. (239-367).

Beiträge zur Herpetologie von Vorder-Asien. **ZUGMAYER**, Zool. Jahrb., Jena, Abt. f. Syst., **23**, (449-486).

Ueber die herpetologische Fauna des Kaukasus-Gebiets. (Russ.) **SATUNIN**, Tiflis, Izv. Kavk. Otd. Russ. Geogr. Obsč., **8**, 1905-1906, (133-140).

Les reptiles de l'Indo-Chine. **MOCQUARD**, Rev. colon., Paris, **1906**, (462-480, 542-552, 611-624, 691-696, 756-760).

Reptilia and Amphibia. (Vertebrata from the Savanna of Panama.) **BARBOUR**, Papers from the John E. Thayer Expedition of 1904, No. **3**: Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**, (224-229).

Vertebrata from Yucatan, Reptilia, Amphibia. **BARBOUR** and **COLE**, *op. cit.* **50**, (146-159, with pl.).

REPTILIA.

Jaw articulation, **SPURRELL**, London, Proc. Zool. Soc., **1906**, (119).

SQUAMATA.

Lungs, primitive structure, **BEDDARD**, Proc. Zool. Soc., **1906**, (41).

Report on the Reptiles collected by the late L. Fea in West Africa. [13 nn. spp.] **BOULENGER**, Genova, Ann. Museo Civ. st. nat., Ser. 3, **2**, (42), 1905-6, (196-213, 9 fig.).

LACERTILIA.

Les Sauriens du Musée d'Histoire naturelle d'Elbeuf. **BARBIER**, Elbeuf, Bul. soc. étud. sci. nat., **24**, (43-76).

The anatomy of the internal urogenital organs of certain North American lizards. **BROOKS**, Austin, Trans. Tex. Acad. Sci., **8**, (23-38, with pl.).

GECKONIDAE.

Gonatodes humeralis, Eier. Jungen, Lebensweise, **HAGMANN**, Zool. Jahrb., Jena, Abt. f. Syst., **24**, (307-310, mit Taf.).

Gymnodactylus louisianensis, De Vis = *G. olivii* Garman and new for Solomon Islands, **WAITE**, Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (13, 6 fig.).—*G. caspius*, Lebensweise, **FAUSSEK**, St. Petersburg, Zap. Russ. Geogr. Obsč., **27**, (1+1-192+1 mit 64 Abb. i. T. u. 4 Taf.).—*G. himalayicus* sp. n. Eastern Himalayas, **ANNANDALE**, Calcutta, J. As. Soc. Beng., **2**, (287).

Hemidaetlylus boaristensis Boa Vista and aporus Anno Bon spp. n., **BOULENGER**, Genova, Ann. Museo Civ., **2**,

(196–213).—*H. exsul* **sp. n.** Yucatan, BARBOUR and COLE, Cambridge, Mass., Bull. Mus. Comp. Zool., Harvard Coll., **50**, (148).

(*Phyllodactylus pariei* **sp. n.**, MOCQUARD, Mission Pavie, **3**.)

Platydictylus, Vorderhirn, UNGER, Anat. Hefte, Abt. I, **31**, (269–348, mit 12 [6] Taf.).

AGAMIDAE.

Acanthosaura dymondi **sp. n.** Yunnan, BOULENGER, Ann. Mag. Nat. Hist., **17**, (567–568).

Agama borstschewskyi **sp. n.**, Buchara, ELPATJEVSKIJ und SABANEJEV, Zool. Jahrb., Abt. f. Syst., **24**, (250).—*A. sanguinolenta*, Beinbildung u. Lebensweise, FAUSSEK, St. Petersburg, Zap. Russ. Geogr. Obsč., **27**, (1 + 1–192 + 1 mit 64 Abb. i. T. u. 4 Taf.).

Phrynocephalus, autimimistische Anpassungen, NIKOL'SKIJ, Jestestv. i geogr., **11**, (39–44).—*P.*, Beinbildung u. Lebensweise, FAUSSEK, St. Petersburg, Zap. Russ. Geogr. Obsč., **27**, (1 + 1–192 + 1 mit 64 Abb. i. T. u. 4 Taf.).—*P.*, Färbung, ELPATJEVSKIJ, Taškent, Izv. Turk. Otd. Russ. Geogr. Obsč., **4**, (49–59).—*P. bergi* **sp. n.** Semiretschje, ELPATJEVSKIJ, T.c. (49–59).

IGUANIDAE.

Norops yucatanicus **sp. n.** Yucatan, BARBOUR and COLE, Cambridge Mass., Bull. Mus. Comp. Zool., Harvard Coll., **50**, (149).

Phrynosoma ditmarsii **sp. n.** Mexico, STEJNEGER, Washington, U. S. Nation. Mus., Proc., **29**, (565–567).

ANGUIDAE.

Anguis fragilis, BRÜNING, Wochenschr. Aquarienkunde, Braunschweig, **3**, (542–544).

ANNIELLIDAE.

Anniella, COE and KUNKEL, New Haven, Conn., Trans. Acad. Arts Sci., **12**, (349–403, with pl., text fig.).—*A. pulchra*, brain, EDDY, Anat. Anz., **29**, (634–638).

HELODERMATIDAE.

Heloderma, vascular system, BEDDARD, London, Proc. Zool. Soc., **1906**, (601).

VARANIDAE.

Monitor, vascular system, BEDDARD, T.c. (601).

Varanus bivittatus, cranial nerves, WATKINSON, Morph. Jahrb., **35**, (450–472, mit 3 Taf.).—*V. ingrami* **sp. n.** Alexandria, S. Australia, BOULENGER, Ann. Mag. Nat. Hist., **18**, (410).

TEIIDAE.

Cnemidophorus: systematic account of Mexican, North American and South American spp., with reference to their variations, GADOW, London, Proc. Zool. Soc., **1906**, 1, (300–375).

Tupinambis nigropunctatus, Eier, Jungen, Lebensweise, HAGMANN, Zool. Jahrb., Abt. f. Syst., **24**, (310–313).

AMPHISBAENIDAE.

Amphisbaena oligopholis, Portuguese Guinea, *bifrontalis*, French Congo, **spp. n.** BOULENGER, Genova, Ann. Museo Civ., **2**, (196).

Placogaster **gen. n.**, *feae* **sp. n.** French Congo, BOULENGER, T.c. (196).

LACERTIDAE.

Algiroides africanus **sp. n.** British East Africa, BOULENGER, London, Proc. Zool. Soc., **1906**, (570).

Eremias transcaespica, Semiretschje, ELPATJEVSKIJ, Taškent, Izv. Turk. Otd. Russ. Geogr. Obsč., **4**, (49–59).

Lacerta horvathi systematische Stellung, WERNER, Zool. Anz., **30**, (55).—*L. muralis*, EWALD, Bl. Aquarienkunde, Magdeburg, **17**, (190).—*L. oxycephala* D.B. Verbreitung und Aufenthalt, TOMASINI, T.c. (55–56, 63–65).—(*Lacerta vivipara*, ponte extraordinaire, OLIVIER, Paris, Bul. soc. zool., **28**, 1903, (180–181).)

Scapteira grammica, Lebensweise, FAUSSEK, St. Petersburg, Zap. Russ. Geogr. Obsč., **27**, (1–192).

GERRHOSAURIDAE.

Gerrhosaurus bergi **sp. n.** Ostafrika, WERNER, Zool. Anz., **30**, (53–55).

SCINCIDAE.

Ablepharus alaicus, Semiretschje, ELPATJEVSKIJ, Taškent, Izv Turk. Otd. Russ. Geogr. Obsč., **4**, (49-59).

Chalcides pulchellus **sp. n.** Soudan, MOCQUARD, Bul. Muséum, Paris, **1906**, (466).

Cryptoposeineus **gen. n.**, *minimus* **sp. n.** Madagascar. MOCQUARD, T.c. (248).

Lygosoma sunderallii als Gegengift, VOSSELER, Pflanzer, Tanga, **2**, (68-72).—*L. megalops* **sp. n.** Ceylon, ANNANDALE, Spolia Zeylanica, **3**, (190).—*L. homalonotum* (section *Liolepisma*), Flat Island Mokohinan group, and *L. Suteri* (section *Liolepisma*) **sp. n.** Great Barrier Island, BOULENGER, Ann. Mag. Nat. Hist., **17**, (369-371, pl. x).

Mabuia multifasciata, KREFFT, Bl. Aquarienkunde, Magdeburg, **17**, (332-335).—*M. multifasciata* Kuhl., Doppelter Embryo, TUR, Varšava, Trd. Obsč. jest., **15**, 1901 (1905), (1-36).—*M. spinalis* **sp. n.** Cape Verde Islands, BOULENGER, Genova, Ann. Museo. Civ., **2**, (196).—*M. betsileana* **sp. n.** Madagascar, MOCQUARD, Bul. Muséum, Paris, **1906**, (465).

†*Sepsina crenni* **sp. n.** Madagascar, MOCQUARD, T.c. (247).

Theconyx **gen. n.** for *Euprepes halianus*, NEVILL, ANNANDALE, Spolia Zeylanica, **3**, (191, with text fig.).

Trachysaurus rugosus, abdominal ribs, BEDDARD, London, Proc. Zool. Soc., **1906**, (376-377).

CHAMAELEONTIDAE.

Chamaeleo, Achseltaschen, KLAPTOCZ, Zool. Jahrb., Abt. f. Anat., **23**, (187-206).—*C. feae* **sp. n.** Fernando Po, BOULENGER, Genova, Ann. Museo. Civ., **2**, (196).—*C. reidis* **sp. n.** Mt. Ruwenzori, BOULENGER, Ann. Mag. Nat. Hist., **18**, (473).—*C. unicornis* **sp. n.** Ogooué, MOCQUARD, Bul. Muséum, Paris, **1906**, (464).

Rhampholeon marshalli **sp. n.** S.E. Mashonaland, BOULENGER, Ann. Mag. Nat. Hist., **18**, (346-347).

PYTHONOMORPHIA.

Mosasaurns], osteology, distribution, JAKOVLEV, St. Peterburg, Bull. Com. géolog., **24**, (135-148); Rés. franç. (149-152).

OPHIDIA.

The poisonous snakes of India and how to recognise them. WALL, Bombay, J. Nat. Hist. Soc., **17**, (51-71, 299-233).

Notes on some sea-snakes caught at Madras. AIYAR, Calcutta, J. As. Soc. Beng., **2**, No. 3, (69-72).

Additional notes on Bahama snakes. BARBOUR, Amer. Nat., Boston, Mass., **40**, 1906, (229-232).

Finesse de Pouë chez les serpents. BARBIER, Feuille jeunes natural., Paris, sér. 4, **35**, 1905, (62-63).

Muscolatura cutanea e locomozione. BUFFA, Padova, Atti Acc. ven. trent., **2**, 1905, (145).

Jaw, articulation and mechanism, ophidia. SPURRELL, London, Proc. Zool. Soc., **1906**, **2**, (119).

ARCHAEOPHIDAE, fam. n.

†*Archacophis proavus* Mass., Skelett. JANENSCH, W. Wien, Beitr. Pal. Geol. OestUng., **19**, (1-33, 2 Taf.).

TYPHLOPHIDAE.

Typhlops feae, San Thomé, *principis* Prince's Island, **spp. n.** BOULENGER, Genova, Ann. Museo Civ., **2**, (209).

GLAUCONIDAE.

Glauconia reticulata **sp. n.** Somaliland. BOULENGER, Ann. Mag. Nat. Hist., **18**, (411).—*Glauconia gestroi* **sp. n.** Fernando Po, BOULENGER, Genova, Ann. Museo Civ., **2**, (210).

BOIDAE.

Boa, anatomy, BEDDARD, London, Proc. Zool. Soc., **1906**, (499).

Corallus, anatomy, BEDDARD, T.c. (499).

Epierates saboque **sp. n.** Panama, BARBOUR, Cambridge, Mass., Bull. Mus. Comp. Zool., Harvard Coll., **46**, (226).

Euneetes, vascular system and differences between *E. murinus* and *notaeus*. BEDDARD, London, Proc. Zool. Soc., **1906**, (12).

Python sebae, venous system; BEDDARD, T.c. (27).

ILYSIIDAE.

Ilysia scytali, structure and systematic position, BEDDARD, London, Proc. Zool. Soc., **2**, (31).

COLUBRIDAE.

Amplorhinus guentheri sp. n. Afrique australe, MOCQUARD, Bul. Muséum, **1906**, (251).

Boodon bedriagae sp. n. San Thomé, BOULENGER, Genova, Ann. Museo Civ., **2**, (211).

Bungarus coeruleus, venom, action on nervous system; HUNTER, Lancet, London, **1906**, **1**, (1231).

Calamelaps fcae sp. n. Portuguese Guinea, BOULENGER, Genova, Ann. Museo Civ., **2**, (214).

Denisonia forresti sp. n. Alexandria, S. Australia, BOULENGER, Ann. Mag. Nat. Hist., **18**, (441).

Gastropyxis principis sp. n. Prince's Island, BOULENGER, Genova, Ann. Museo Civ., **2**, (213).

Geophis multitorques yucatanicus subsp. n. Yucatan, BARBOUR and COLE, Cambridge, Mass., Bull. Mus. Comp. Zool., Harvard Coll., **50**, (153).

Gonionotophis degrijsi sp. n., Ostafrika, WERNER, Zool. Anz., **30**, (53-55).

Isechnognathus s. *Storeria dekayi* Holbrock. BRUNER, Bl. Aquarienkunde, Magdeburg, **17**, (458-460, 469-471, 476-478).

Lamprophis abyssinicus sp. n. Abyssinia, MOCQUARD, Bul. Muséum, **1906**, (249).

Leptodira degeni sp. n. Entebbe, BOULENGER, London, Proc. Zool. Soc., **1906**, **1**, (572).

Lyceodon mackinnoni, Himalaya, sp. n. WALL, Bombay, J. Nat. Hist. Soc., **17**, (29).

Lythorhynchus ridgwayi var. n. *roseni*, ELPATJEVSKIJ und SABANEJEV, Zool. Jahrb., Abt. f. Syst., **24**, (247-264).
(x-9720 d)

Macropisthodon rudis sp. n. Yunnan, BOULENGER, Ann. Mag. Nat. Hist., **17**, (568).

Melanelaps mepherstoni sp. n. Aden Hinterland, WALL, Bombay, J. Nat. Hist. Soc., **17**, (27).

Prosymna vassei sp. n. Mozambique, MOCQUARD, Bul. Muséum, **1906**, (250).—*P. bocagii* Blgr.=*P. vassei* Mocq.—*P. greigerti* sp. n. Soudan; MOCQUARD, T.c. (467).

Tropidonotus natrix, Entwicklung, Bemerkung, SCHMALHAUSEN, Anat. Anz., **29**, (151).—*T. natrix*, Entwicklung: KRÜLL, Zs. wiss. Zool., **85**, (107-155, 2 Taf.).—*T. natrix*, sviluppo della muscolatura cutanea; BUFFA, Padova, Atti Acc. ven. trent., N. Ser., **2**, 1905, (173-206, 3 tav.).

Zamenis mucosus, WALL, Bombay, J. Nat. Hist. Soc., **17**, (259-273, pl. iii).

Hyposirrhina multilineata sp. n. TIRANT, Mission Pavie, **3**, 1904, (184).

VIPERIDAE.

Atheris woosnami sp. n. Mount Ruwenzori, BOULENGER, Ann. Mag. Nat. Hist., **18**, (37-38).

Bitis nasicornis, young, structure; BEDDARD, London, Proc. Zool. Soc., **1906**, **2**, (31).

Pelias berus, KLUNZINGER, Stuttgart, Jahreshefte Ver. Natk., **62**, (xcix).

Crotalidae, das Rasseln der, KÖNIG, Natur u. Haus, Dresden, **14**, (326-330).

Crotalus divisus, Jagd; KÖNIG, D. Jägerztg. Nendamm, **47**, (476-478, 508-509, 524-526, 541-542).—*C. durissus*, Rassel; KÖNIG, Natw. Wochenschr., **21**, (49-55).

Lachesis monticola Gthr., Exemplare mit unpaarigen Subcaudalschildern, STEINDACHNER, Wien, Anz., **1906**, (299).

DINOSAURIA.

†Dinosaurians of the Tertiary and Cretaceous of Patagonia; AMEGHINO, An. Mus., Buenos Aires, Ser. 3, **8**.

†Dinosaurian gastroliths, WIELAND, Science, New York, N.Y., N. Ser., **23**, (819-821).

†*Dinosaurian*, related to *Megalosaurus*, claw, from Lower Jurassic, Victoria, Australia, WOODWARD, Ann. Mag. Nat. Hist., **18**, (1-3, pl. i).

†*Brontosaurus*, skeleton, OSBORN, Nature, **73**, (282).

†*Diplodocus*, osteology, HOLLAND, Pittsburgh, Pa., Mem. Carnegie Mus., **2**, (225-278).

†*Ornatotarsus*, S. Africa, BROOM, Cape Town, Trans. S. Afric. Phil. Soc., **16**, pt. 3, (201-205, pl. 111).

†*Hypsilophodon* described and figured, NORCSA, Geol. Mag., London, (5), **2**, 1905, (203-208).

†*Iguanodon*, allures et empreintes des pieds et de la queue; DOLLO, Bul. Sci. France Belgique, Paris, **40**, (1-12).

†*Megalosaurus bucklandi*, cranium, HUENE, N. Jahrb. Min., Stuttgart, **1906**, 1, (1-12, Taf.).

†*Morasaurus*, skull, OSBORN, Nature, **73**, (282).

†*Polacanthus* described and figured, NORCSA, Geol. Mag., London, (5), **2**, 1905, (241-250).

†*Proceratops* **nom. n.** for *Ceratops*, LULL, Amer. J. Sci., **21**, (144).

†*Streptospondylus* described and figured, NORCSA, Geol. Mag., London, (5), **2**, 1905, (289-293).—S., NORCSA, Wien, Beitr. Pal. Geol. OestUng., **19**, (59-83).

†*Triceratops*, osteology, BROWN, New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, (297-300, pl.).—*T. prorsus*, description of Gilmore's restoration, with figure; Nature, **73**, (228).

†*Tyrannosaurus*, OSBORN, New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, (281-296, pl.).

EMYDOSAURIA.

Vascular system, Crocodilia, BEDDARD, London, Proc. Zool. Soc., **1906**, (601).

The Phytosauria, with especial reference to *Myriosuchus* and *Rhytidodon*. MCGREGOR, New York, N.Y., Mem. Amer. Mus. Nat. Hist., **9**, (27-101).

American amphicolian crocodiles, WILLISTON, J. Geol., Chicago, Ill., **14**, (1-17).

Caiman sclerops, Eier, Fortpflanzungsweise, HAGMANN, Zool. Jahrb. Jena, Abt. f. Syst., **24**, (313-316, mit Taf.).

Oclosuchus **gen. n.**, *reedii* **sp. n.** Wilcox Wyo. Graneros div. of Benton, WILLISTON, J. Geol., Chicago, Ill., **14**, (9).

Crocodylus articeps (481), *megarhinus* (482), **spp. n.**, Eocene Fayûm, ANDREWS, Geol. Mag., London, (5), **2**, 1905, and Catalogue Tertiary Vertebrate Fayûm, 1906, (250).

Erythrosuchus africanus, BROOM, Cape Town, Ann. South Afric. Mus., **5**, (187-196, pl. iv).

Metriorhynchus, Organisation und Anpassungserscheinungen, ARTHABER, Wien, Beitr. Pal. Geol. OestUng., **19**, (287-320, 6 Taf.).

Teleosaurus gaudryi **sp. n.** Jurassique Saint-Seine-l'Abbaye, COLLOT, Dijon, Mém. Acad. Sci. Arts, **10**, (11).

Tomistoma garialoides (483), *kernense* (484), **spp. n.**, Eocene Fayûm, ANDREWS, Geol. Mag., London, (5), **2**, 1905, and Catalogue Tertiary Vertebrata Fayûm, (1906), (256).

ICHTHYOSAURIA.

†*Baptanodon robustus* **sp. n.**, GILMORE, Pittsburg, Pa., Mem. Carnegie Mus., **2**, (325-342).

†*Ichthyosaurus*, two specimens, British Museum, showing contained embryos; WOODWARD, Geol. Mag., London, (5), **3**, (443-444, 1 pl.).

†*Ichthyosaurus*, Essenrode, STOLLEY, Braunschweig, Jahresber. Ver. Natw., **14**, (79-83).

CHELONIA.

†Giant extinct Chelonia, allied to Mascarene and Malagasy forms; ANDREWS, descriptive Catalogue of the Tertiary Vertebrata of the Fayûm, 1906.

Schildkröten aus Südmexiko, SIEBENROCK, Zool. Anz., **30**, (94-102).

Schildkröten von Ostafrika und Madagaskar, SIEBENROCK, (Alfred Voeltzkow, Reise in Ostafrika. Wissenschaftliche Ergebnisse. Bd 2, H. 1.) Stuttgart, 1906, (v + 40, 5 Taf.).

Chelonia of Brazil; GOELDI, Bol. Mus. Goeldi, **4**, (699).

†*Plastron* of the *Protosteginae*, WIELAND, Pittsburg, Pa., Ann. Carnegie Mus., **4**, 1906, (8-14).

†*Anosteira* Leidy, eocene turtle, HAY, New York, N.Y., Bull. Amer. Mus., **22**, (155).

†*Baëna pulchra* sp. n. Judith River beds, Alberta, LAMBE, Ottawa Nat., **19**, (187-196, 2 pls.).

†*Basilemys sinuosus* sp. n. RIGGS, Chicago, Ill., Pub. Field Columb. Mus., Geol. Ser., **2**, (249-256, pl.).

†*Boremys* gen. n., *pulchra* sp. n., Cretaceous Alberta, LAMBE, Ottawa Nat., **19**, (232).

Callagur picta Gray, SIEBENROCK, Zool. Anz., **30**, (127-130).

Carettochelys insculpta, osteology, WAITE, Sydney, N.S.W., Rec. Austr. Mus., **6**, (110-118).

†*Chisternon* Leidy, eocene turtle, HAY, New York, N.Y., Bull. Amer. Mus., **22**, (155).

Cinosternum steindachneri sp. n. Florida, SIEBENROCK, Zool. Anz., **30**, (727).

Cyclemys yunnanensis sp. n. Yunnan, BOULENGER, Ann. Mag. Nat. Hist., **17**, (567).

†*Echmatemys* gen. n. type *Emys septaria* Cope-Bridger, HAY, New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, (29).

Emydura novae-guineae Meyer, SIEBENROCK, Zool. Anz., **30**, (127-130).

Emys europaea in Westpreussen, DAUMS, Danzig, Ber. bot.-zool. Ver., **28**, (89-96).

Geomyda spinosa Gray, MÜLLER-MAINZ, Wochenschr. Aquarienkunde, Braunschweig, **3**, (195-197, 207-209).

Homopus bergeri sp. n. Deutsch. S. W. Afrika, LINDHOLM, Wiesbaden, Jahrb. Ver. Natk., **59**, (318).—*H. boulengeri* sp. n., DUERDEN, Graham's Town, Rec. Albany Mus., **1**, pt. IV, (406, pl. xi).

Malaclemmys littoralis rhizophorarum subsp. n. Florida Keys, FOWLER, Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, (112, pl. iv).

(*Pangshura cochinchinensis* sp. n. TIRANT, Mission Pavie, **3**, (194).)

†*Protostega*, osteology, WIELAND, Pittsburg, Pa., Mem. Carnegie Mus., **2**, (279-304).

†*Terrapene putnami* sp. n., HAY, New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, (27).

Testudo, mediterrane Arten, SIEBENROCK, Zool. Anz., **30**, (847-854).—†*T. exornata*, Oligocene Assiniboia, LAMBE, Ottawa Nat., **19**, (187-196).—*T. graeca*, forma esterna e scheletro, GNIGI, Bologna, Mem. Acc. sc., (Ser. 6), **3**, (235-247).—*T. graeca*, respiration, FRANÇOIS-FRANCK, Paris, C.-R. soc. biol., **61**, (127-129).—*T. beadnelli, isis*, spp. n., (285), Upp. Eocene Fayûm Egypt, *T. ammon* described (278); ANDREWS, Catalogue Tertiary Vertebrata, Fayûm, Brit. Mus. N. H., 1906.—†*T. peragrans* (15), *tareivaga* (16), *inusitata, hollandi* (18), *edae* (19), spp. n., Miocene, Nebraska, Montana, HAY, Pittsburg, Pa., Ann. Carnegie Mus., **4**.—*T. goulffei* sp. n., Seychelles Is., ROTHSCHILD, Nov. Zool., Tring, **13**, (753).

Trionyx steindachneri sp. n., Hainan, SIEBENROCK, Zool. Anz., Leipzig, **30**, (579).

†*Xenochelys* gen. n. *formosa* sp. n., HAY, New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, (27).

PLESIOSAURIA.

†*Cimoliosaurus*, revision of genus; WILLISTON, Amer. J. Sci., **21**, (222).

†*Elasmosaurus*, revision of genus, *E. (?) marshii, sternbergi, nobilis*, spp. n., Niobrara Cretaceous, Kansas; WILLISTON, Amer. J. Sci., **21**, (223).

†*Plesiosaurus* von der Lena, JAKOVLEV, St. Peterburg, Verh. Russ. mineral. Ges., **41**, (13-16, mit Taf. i).

†*Polycotylus*, revision of genus, *P. dolichopus* sp. n. Niobrara Cretaceous, Kansas, WILLISTON, Amer. J. Sci., **21**, (230).

PELYCOSAURIA.

Dimetrodon, morphology of skull; CASE, Philadelphia, Pa., Trans. Amer. Phil. Soc., **21**, 1905, (1-27).

†*Edaphosaurus pogonias*, skull; CASE, New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, (19-26).

RHYNCHOCEPHALIA.

Howesia, description and discussion of affinities; BROOM, London, Proc. Zool. Soc., **1906**, 1, (591).

Palaeodon **gen. n.**, *browni* **sp. n.** Trias, S. Africa, BROOM, Cape Town, Trans. S. Afric. Phil. Soc., **16**, (379).

Rhynchosaurus articeps, structure and habits, WOODWARD, London, Proc. Zool. Soc., **1**, (125).

†*Saururus* **gen. n.**, *costei* **sp. n.** THÉVENIX, Ann. palaeont., **1**, (143-163).

Sphenodon; organ of Jacobson; BROOM, London, J. Linn. Soc. Zool., **29**, (414).

ANOMODONTIA.

Elurosuchus **gen. n.**, placed provisionally in the Anomodontia for *E. browni* **sp. n.** BROOM, Cape Town, Trans. S. Afric. Phil. Soc., **16**, (376, pl. x).

†Osteology of *Diadectidae* and their relations to the *Chelydrosauria*; CASE, J. Geol., Chicago, Ill., **13**, 1905, (126).

OMPHALOSAURIDAE fam. n. incertae sedis.

Omphalosaurus† **gen. n.**, *neradanus*† **sp. n.**, MERRIAM, Berkeley, Univ. Cal. Pub., Bull. Dept. Geol., **5**, (75-80, pl.).

INCERTAE SEDIS.

Megophias Rafinesque, note à propos d'une observation de M. Lagrèsille, faite en 1898, dans les mers du Tonkin, RACOVITZA, Paris, Bul. soc. zool., **28**, 1903, (11-29, av. fig.), et Complément à la communication de M. Racovitza sur le grand serpent de mer, ALLUAUD, Paris, Bul. soc. zool., **28**, 1903, (317).

BATRACHIA.

Synopsis in Amphibia; MOORE and EMBLETON, London, Proc. R. Soc., B **77**, (555).

Experimental studies on the development of the eye in Amphibia. 2. On the cornea. LEWIS, J. Exp. Zool., Baltimore, Md., **2**, 1905, (431-446, 2 pls.).

ECAUDATA.

Notes on the fresh-water fauna of India. No. VIII. Some Himalayan tadpoles, ANNANDALE, Calcutta, J. As. Soc. Beng., **2**, (291-292).

The biology of the frog, HOLMES, New York, 1906, (ix + 370).

A proposito del diaframma degli anfibii anuri; GIGLIO-TOS, Biologica, **1**, (26).

Amphibien, KAMPEN, Nova Guinea, Résultats de l'Expédition scient. Néerl. à la Nouvelle-Guinée en 1903. Leide, **5**, Livr. 1, (163-180, mit 1 Taf.).

Lebendiggebärende Frösche, SPENGLER, Zool. Anz., **29**, (801-802).

Report on the Batrachians collected by the late L. Fea in West Africa. [6 nn. spp.], BOULENGER, Genova, Ann. Museo Civ. st. nat., Ser. 3, **2**, (42), 1905-6, (157-172, w. 2 fig. and 2 pl.).

AGLOSSIDAE.

Xenopus = *Dactylethra*, COHN, Zool. Anz., **31**, (15-53).—*X. laevis*, life history, BLES, Edinburgh, Trans. R. Soc., **41**, (789).

RANIDAE.

Arthroleptis boettgeri Blgr. must be referred to *Cacosternum* Blgr., and *A. leucomystax* to *Cardioglossa* Blgr., BOULENGER, Ann. Mag. Nat. Hist., **17**, (324).—*A. feae* (161) Prince's Island, *ogowensis* (162), Ogowe, **spp. n.** BOULENGER, Genova, Ann. Museo Civ., **2**.—*A. batesii*, *cornutus*, *lucianus* **spp. n.** South Cameroon, BOULENGER, Ann. Mag. Nat. Hist., **17**, (318-321).

Cardioglossa elegans **sp. n.** South Cameroon, BOULENGER, T.c. (321-322).

Dimorphognathus **gen. n.** for *Heteroglossa africana*, BOULENGER, T.c. (321).

Hylambates calcaratus, *cubitoalbus* **spp. n.** South Cameroon, BOULENGER, T.c. (322-323).—*H. hylodes* Portuguese Guinea, *leonardi* (167), *brevipes* (168), Fernando Po, **spp. n.**, BOULENGER, Genova, Ann. Museo Civ., **2**.—*H. brevirostris*, buccal nursing, BOULENGER, London, Proc. Zool. Soc., **1906**, 1, (179).

Ixalus annandalii sp. n. India, BOULENGER, Calcutta, J. As. Soc. Beng., 2, (385).

Rana, egg development in salt and other solutions, JENKINSON, London, Rep. Brit. Ass., 1906, (175-181).—Système lymphatique des têtards, HOYER, Kraków, Rozpr. Akad., 45 B, (252).—Lymphherzen, RADWAŃSKA, Kraków, Bull. Intern. Acad., 1906, (213-228).—Vordere Augenhälfte, TRETJAKOFF, Zs. wiss. Zool., 80, (327-410, 3 Taf.).—Tadpole, experiments on developing ear vesicle, STREETER, Brit. Med. J., 1906, 2, (1702).—Tadpoles covered with Vorticellae, CARLIER, Edinburgh, Proc. Scot. Microsc. Soc., 4, (133).—Entwicklung der Brunstorgane, Physiologie, NUSSBAUM, Bonn, Sitzber. Ges. Natk., 1905, (41-46).—Optic stalk, fate in adult, GRADON, Q. J. Microsc. Sci., London, 50, (479-493).—Remains from caves of Co. Clare, SCHARFF and others, Dublin, Trans. R. Irish Acad., 33, (25).

R. temporaria, heteromorphe Spermen, BALLOWITZ, Zool. Anz., 30, (730-737).—Farbenvarietät, KLUNZINGER, Frankfurt a. M., Ber. Senckenb. Ges., 1906, (105-118, 2 Taf.).—Kletternder, WEMER, Zool. Beob., Frankfurt a. M., 47, (315-316).—Action de l'eau de mer et des solutions salines, BOHN, DRZEWINA, Kraków, Bull. Intern. Acad., 1906, (293-314).—Hermaphroditismus, OGNEW, Anat. Anz., 29, (194-203).—Brutpflege, RIEPE, Bl. Aquarienkunde, Magdeburg, 17, (190).—Ganglienzelle, WARFWINGE, Arch. mikr. Anat., 68, (132).

R. esculenta pugnacity, ADAMS, Zoologist, 10, (151).—*R. fusca*, cœurs lymphatiques antérieurs, RADWAŃSKA, Kraków, Rozpr. Akad., 76 B, (115-130).

R. goliath sp. n. Efulen. South Cameroon, BOULENGER, Ann. Mag. Nat. Hist., 17, (317-318).—*R. theileri* sp. n. Transvaal, MOCQUARD, Bul. Muséum, Paris, 1906, (252).

Rappia pleurotaenia sp. n. South Cameroon, BOULENGER, Ann. Mag. Nat. Hist., 17, (322).

Rhacophorus taeniatus sp. n. India, BOULENGER, Calcutta, J. As. Soc. Beng., 2, (385).

Sooglossus gen. n. for *Arthroleptis seychellensis*, Boettger, BOULENGER, Ann. Mag. Nat. Hist., 17, (321).

ENGYSTOMATIDAE.

Callula verrucosa, von Tsingtau, WOLTERSTORFF, Zool. Anz., 30, (554-558).

Chaperina macrorhyncha, *C. basipalmata* spp. n. Neu-Guinea, KAMPEN, Nova Guinea, Leide, 5, Livr. 1, (163-180, mit 1 Taf.).

Metopostira macra sp. n. Neu-Guinea, KAMPEN, Nova Guinea, Leide, 5, Livr. 1, (167, 1 Taf.).

Neotophryne guentheri Blgr. = *exigua* Boettger, *N. hosii* Blgr. described and figured, *ereretti* Blgr. figured; *tornieri* sp. n. German East Africa, ROUTS, London, Proc. Zool. Soc., 1906, (59).

BUFONIDAE.

Atelophryne gen. n., *minuta* sp. n. Fernando Po., BOULENGER, Genova, Ann. Museo Civ., 2, (159).

Bufo viridis, *mauritanicus*, e *regularis*, variazione, CAMERANO, Torino, Mem. Acc. sc., (Ser. 2), 54, 1904, (183-280).—*B. vulgaris*, *Lucilia* schmarotzend in, HESSE, Biol. Centralbl., 26, (633-640), 1 Taf.—*B. vulgaris* im Terrarium, KRÄUSEL, Bl. Aquarienkunde, Magdeburg, 17, (215).—*Bufo rittatus* sp. n. Entebbe, BOULENGER, London, Proc. Zool. Soc., 1906, I, (573).

CYSTIGNATHIDAE.

Leptodactylus insularum sp. n. Panama, BARBOUR, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., 46, (228).

Paludicola alpina sp. n. Andes of Argentina, ANDERSSON, Ark. Zool., Stockholm, 3, No. 12, (6).

HYLIDAE.

Hyla arborea, experimentelle Veränderung der Fortpflanzungstätigkeit, KAMMERER, Arch. Entw. Mech., 22, (48-140).—*H. aurea*, anatomy, MARRINER, Wellington, Trans. N. Zeal. Inst., 38, (257-265).—*H. septentrionalis*, KREFFT, Natur u. Haus, 14, (115-118).—*H. mystax* sp. n. Neu-Guinea, KAMPEN, Nova Guinea, Leide, 5, Livr. 1, (163-180).—*H. palpebrogranulata*, *alumniata*, *rufopunctata*, spp. n., Bolivia, ANDERSSON,

Ark. Zool., Stockholm, **3**, No. 12, (14).—*H. phleboles* sp. n., Costa Rica, STEJNEGER, Washington, U. S. Nation. Mus., Proc., **30**, (817-118).

Phyllomedusa hypochondrialis Cope, Brutpflegend, MUSSHOFF, Bl. Aquarienkunde, Magdeburg, **17**, (255, 269).

DISCOGLOSSIDAE.

Alytes obstetricans, experimentelle Veränderung der Fortpflanzungstätigkeit, KAMMERER, Arch. EntwMech., **22**, (48-140, 1 Taf.).—*A. obstetricans*, Zucht im Terrarium, WICHAND, Bl. Aquarienkunde, Magdeburg, **17**, (420-421, 430-431).—*A. obstetricans*, Herkunft und Entwicklung des Pankreas, BRAUN, Morph. Jahrb., Leipzig, **36**, (27-51, 2 Taf.).

Discoglossus pictus, Maroc, DEYROLLE, Naturaliste, Paris, **27**, (266).

CAUDATA.

Correlated protective devices in some California salamanders. [With bibliography.] HUBBARD, Berkeley, Univ. Cal., Pub. Zool., **1**, 1903, (157-170, with pl.).

Observations on the reactions of *Cryptobranchus* and *Necturus* to light and heat. [With bibliography.] REESE, Wood's Holl, Mass., Mar. Biol. Lab. Bull., **11**, (93-99).

Amblystoma punctatum, nasal skeleton, TERRY, St. Louis, Mo., Trans. Acad. Sci., **16**, (95-124, with pl.).

Autodar lugubris from Los Angeles, California, MILLER, Amer. Nat., **40**, (741).

Cryptobranchus allegheniensis, anatomy, REESE, Amer. Nat., **40**, (287-326).

Cryptobranchus japonicus, Rückenmark, Tuerckheim, Leipzig (Druck v. B. Georgi), 1903, (23, mit 9 Taf.). 22 cm.

Cryptobranchus japonicus, inneres Gehörorgan, OKAJIMA, Anat. Hefte, Abt. 1, **32**, (233-253, mit 3 Taf.).—*C. japonicus*, Geruchsorgan, OKAJIMA, Anat. Anz., **29**, (641-650).

Desmognathus fusca, colour variation, FOWLER, Philadelphia, Pa., Proc. Ac. Nat. Sci., **58**, (356).

Manculus quadridigitatus Cope, neues Sinnesorgan, BOETTGER, Zool. Beob., **47**, (88).

Megalobatrachus maximus (Schlegel), mode of origin of the germinal layers, LANGE, Amsterdam, 1906, (196, with 4 pl.).

Necturus maculatus in bayerischen Gewässern, LANKES, Bl. Aquarienkunde, Magdeburg, **17**, (160).—*N. maculosus*, habits, EYLESHYMER, Amer. Nat., **40**.

Plethodon oregonensis, poison glands, structure and regeneration, ESTERLY, Berkeley, Univ. Cal. Pub., Zool., **1**, 1904, (227-268, with text fig., pl.).

Plethodon shermani sp. n., North Carolina, STEJNEGER, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus., Proc., **30**, (559-562, with text fig.).

Plethodon vandykei sp. n. Mount Rainier, Washington, VAN DENBURGH, San Francisco, Proc. Cal. Acad. Sci., Zool., **4**, (61-63).

Salamandra maculosa, Farbenvarietät, SCHWEIZERBARTH, Frankfurt a. M., Ber. Senckenb. Ges., **1906**, (119-121, mit 1 Taf.).—*S. maculosa*, Entwicklung, FAHR, Wochenschr. Aquarienkunde, Braunschweig, **3**, (186).

Spelerpes fuscus Bonap., Spermie, BALLOWITZ, Anat. Anz., **28**, (237-240).—*S. maculicaudus*, life history, BANTA and McATEE, Washington, U. S. Nation. Mus., Proc., **30**, (67-83, with text fig., pl.).

Triton, Neotenie, WICHAND, Bl. Aquarienkunde, Magdeburg, **17**, (183, 197, 205).

Triton alpestris, Samenträger, KLUNZINGER, Verh. D. zool. Ges., **16**, (227-228).

Triton blaasei, Kreuzungsversuche, KUMMER, Wochenschr. Aquarienkunde, Braunschweig, **3**, (568-570).—Bemerkungen dazu v. W. Wolterstorff, T.c. (610-611, 624-625, 639-640).

Triton marmoratus existe-t-il dans le nord de la France? GIARD, Feuille jeunes natural., **38**, 1905, (129).

Triton pyrrhogaster subsp. *orientalis* WOLTERSTORFF, Zool. Anz., **30**, (558-563).

Triton vittatus **form n.** *ciliciensis*,
WOLTERSTORFF, Zool. Anz., **29**, (619-
651).

APODA.

Coecilia sabogae **sp. n.**, Panama,
BARBOUR, Cambridge, Mass., Bull. Mus.
Comp. Zool. Harvard Coll., **46**, (228).

INCERTAE SEDIS.

†*Ichnium* (?) *acrodactylum*, Permian,
Nottinghamshire, HICKLING, London,
Q. J. Geol. Soc., **62**, (125).

†*Anaschisma* **gen. n.**, *browni*, *brachy-
gnatha*, **spp. n.**, Trias Lauder region,
BRANSON, J. Geol., Chicago, Ill., **13**, 1905,
(570, text figs.).

†*Eryops* Permian, Texas redescribed
and referred to *Labyrinthodontidae*,
BRANSON, T.c. (595).

†*Protriton fayoli* **sp. n.** Upper
Stephanian, Commeny, THÉVENIN, Ann.
palaeont., **1**, (143-163).

†*Chirosaurus ibericus* **sp. n.** Siluriano
del Moncayo, NAVAS, Zaragoza, Bol. Soc.
Arag., **5**, (208).

XVII. AVES

ARRANGED BY

R. BOWDLER SHARPE

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I.—TITLES.

N.B.—Titles in brackets have appeared previously in the Zoological Record.

Abbott, Gerald Alan. Up the Yellowstone on a pinto. *Condor*, Santa Clara, Cal., **8**, 1906, (151–152).

Abel, O[thenio]. Ueber den als Beckengürtel von *Zeuglodon* beschriebenen Schultergürtel eines Vogels aus dem Eocän von Alabama. *Centralbl. Min.*, Stuttgart, **1906**, (450–458).

Alexander, Boyd. On new species of birds from the Central Sudan. London, *Bull. Brit. Ornith. Cl.*, **16**, 1906, (123–124).

Alexander, H. G. 1. Fire-crest (*Regulus ignicapillus*) near Tunbridge Wells. *Zoologist*, London, **10**, 1906, (149).

Alexander, H. G. 2. Continental Long-tailed Tit in Yorkshire. *Zoologist*, London, **10**, 1906, (149).

Alexander, H. G. 3. Avocet near Rye. *Zoologist*, London, **10**, 1906, (152).

Alfaro, A. On a new owl from Costa Rica. Washington, D.C., *Proc. Biol. Soc.*, **18**, 1906, (217).

Allen, Francis H. 1. Breeding of the prairie horned lark in eastern Massachusetts. *Auk*, Cambridge, Mass., N. Ser., **23**, 1906, (101–102).

Allen, F. H. 2. Possible breeding of *Junco hyemalis* in Essex county, Mass. *Auk*, Cambridge, Mass., N. Ser., **23**, 1906, (103).

Allen, J[oe]l A[saph]. 1. The name of the western sandpiper. *Auk*, Cambridge, Mass., N. Ser., **23**, 1906, (97–98).

Allen, J. A. 2. Subgenera and other matters. *Auk*, Cambridge, Mass., N. Ser., **23**, 1906, (122–125).

Allen, J. A. 3. The “elimination” and “first species” methods of fixing the types of genera. *Science*, New York, N.Y., N. Ser., **24**, 1906, (773–779). Correction. T.c. (858).

Allison, Andrew. 1. Notes on the winter birds of Hancock county, Mississippi. *Auk*, Cambridge, Mass., N. Ser., **23**, 1906, (44–47).

Allison, A. 2. Notes from Hancock county, Mississippi. [*Anthus spragueii* and *Ampelis cedrorum*.] *Auk*, Cambridge, Mass., N. Ser., **23**, 1906, (232–233).

Alphéraky, S. 1. Notes on some Palearctic Geese. *Ibis*, London, **1906**, (389–394).

Alphéraky, S. 2. A few words in reply to Mr. E. W. Oates' paper on the species of Bean-Geese. St. Peterburg, 1906, (7).

[**Alphéraky, S. N. J. 3.** Алфераки, С. Н. О малыхъ лебедяхъ. (*Cygnus bewicki*.) [Ueber den kleinen Schwan (*Cygnus bewicki*.)] *Prir. i ochota*, Moskva, **1906**, 2–3, Beil., (7–8).

[**Alphéraky, S. A. J. 4.** Алфераки, С. А. *Scops scops* L. Совка. [*Scops scops* L. Die Zwergohreule.] *Psov. i ruzejn. ochota*, Moskva, **12**, 1906, (398).

Alston, C. H. Occurrence of the Marsh-Titmouse in Argyll. *Ann. Scot. Nat. Hist.*, Edinburgh, **1906**, (51–52).

Ameghino, F. Enumeración de los impennes fósiles de Patagonia y de la isla Seymour. [Enumeration of the fossil impennes of Patagonia and of the Seymour Is.] *An. Mus.*, Buenos Aires, ser. 3, **6**, 1906, (97–167).

Andrews, F. W. Natural history notes in New Zealand. Burton-on-Trent, *Trans. Nat. Hist. Soc.*, **5**, Part 2, 1906, (172–190).

Angele. Neues über Winddruck und Vogelflug. Ulm, Jahreshfte Ver. Math., **12**, 1906, (21-39).

Angelini, Giovanni. Qualche osservazione sopra due uccelli neotropici, *Aphrastura fulra* n. sp.? (*Dendrocolapidae*) e *Creciscus melanophaeus* (Vieill.) (*Rallidae*). Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (96-99).

Annandale, N. On the wild swan of Seistan. Ibis, London, **1906**, (612-613).

Anne, M. d'. Albinisme chez la Perdrix grise et chez le Faisan. Feuille jeunes natural., Paris, **36**, 1906, (183).

Anthony, A[lfred] W[ebster]. **1.** Random notes on Pacific coast gulls. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (129-137).

Anthony, A. W. **2.** Where does the large-billed sparrow spend the summer? Auk, Cambridge, Mass., N. Ser., **23**, 1906, (149-152).

Anthony, A. W. **3.** Stray notes from Alaska. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (179-184).

Aplin, O. V. Notes on the ornithology of Oxfordshire. Zoologist, London, **10**, 1906, (410-418, 445-452).

Argaud. Sur la structure des artères chez les Oiseaux. Discussion: M. Suchard. C.-R. ass. anat., 6^e session (Toulouse), Nancy, **1904**, (90-95).

Arnow, Isaac F. The seaside sparrow [*Ammodramus maritimus macgillivraii*] nesting in bushes. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (226).

Arrighi Griffoli, Gius. **1.** Il *Turdus obscurus* e il *Colymbus adamsi* in Toscana. Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (83-84).

Arrighi Griffoli, G. **2.** Nuove contribuzioni alla Avifauna della Val di Chiana. Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (165-179).

Arrigoni degli Oddi, E. **1.** Deux mots sur la Buse féroce (*Buteo ferox*) tuée à Lyon en octobre 1902. Paris, Bul. soc. zool., **28**, 1903, (138-140).

Arrigoni degli Oddi, E. **2.** Nuove osservazioni sulla cattura della *Fuligula Homeyeri* Baed. nel Veneto. Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (123-132).

Arrigoni degli Oddi, E. **3.** Note sul IV congresso ornitologico internazionale tenutosi in Londra nel Giugno 1905. Venezia, Atti Ist. ven., **65**, Ser. 8, **8**, 1905-1906, (729-798).

Ashby, E. Northern Notes. Emu, Melbourne, **6**, 1906, (72-74).

Astley, H. D. **1.** Food for Nightingales and other delicate insectivorous birds. Avicult. Mag., Brighton, Ser. 2, **5**, 1906, (42-43).

Astley, H. D. **2.** Breeding of the Australian Peaceful Dove in Italy. Avicult. Mag., Brighton, Ser. 2, **5**, 1906, (58-59).

Auerbach, A[lfred]. Eine helle Spielart der Grau-Ammer, *Miliaria calandra* (Linn.). Gera, Jahresber. Ges. Natw., **46** **48**, (1903-1905), 1906, (168-169).

Austin, E. G. Southern range of Warbling Grass-Parrakeets. Emu, Melbourne, **5**, 1906, (204).

Azzolini, E. Budytes italiani (Otrisciaiole e Cutti) (Boarine). Rovereto, 1906, (i-vi, 1-55).

Bachmann, Alf. Meine zweite Reise nach Island im Sommer 1904. Ornith. Monatschr., Gera, **31**, 1906, (16-42, 97-105).

Bailey, Florence Merriam. **1.** Nesting sites of the desert sparrow. Condor, Santa Clara, Cal., **8**, 1906, (111-112).

Bailey, F. M. **2.** A nest of *Empidonax difficilis* in New Mexico. Condor, Santa Clara, Cal., **8**, 1906, (108).

Bailey, H[arold] H. Ornithological notes from western Mexico and the Tres Marias and Isabel^{ta} Islands. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (369-391, pl.).

Baker, E. C. Stuart. **1.** Notes on the nidification of Indian birds not mentioned in Hume's "Nests and Eggs." Part I. Ibis, London, **1906**, (84-113, 257-285).

Baker, E. C. S. **2.** . . . Part II. Ibis, London, **1906**, (257-285).

Baker, E. C. S. **3.** The Oology of Indian parasitic cuckoos. Bombay, J. Nat. Hist. Soc., **17**, 1906, (72-83, 1 pl.).

Baker, E. C. S. **4.** The Oology of Indian parasitic cuckoos. Bombay, J. Nat. Hist. Soc., **17**, 1906, (351-374, 1 pl.).

Baldelli, G. T. Avicultural notes from Florence: Tanagers breeding.

Avicult. Mag., Brighton, Ser. 2, 4, 1906, (179, 180).

Balducci, Enrico. Morfologia dello sterno degli uccelli italiani. Roma, Boll. Soc. zool. ital., Ser. 2, 6, 1906, (113-122, 1 tav.).

Balz, Karl. Unser Eisvogel (*Alcedo ispida*) als Naturdenkmal. Weidmann, Berlin, 37, 1906, (852-853).

Bamberg, Otto. 1. Nachrichten aus Turkestan. Zs. Oologie, Berlin, 15, 1905-06, (134-139, 152-155, 168-172, 183-186); 16, 1906, (3-7).

Bamberg, O. 2. Seltene Abnormitäten aus dem Tien-Schengebiet u. a. Ornith. Rdseh., Berlin, Jg 2, 1906, (58-64).

Banfield, E. J. 1. A Queensland Bird Sanctuary. Emu, Melbourne, 5, 1906, (204).

Banfield, E. J. 2. Dunk Island (N. Queensland), Notes. Emu, Melbourne, 6, 1906, (14, 15).

Banfield, E. J. 3. Sea Eagles and Tree-Snakes. Emu, Melbourne, 6, 1906, (16-17).

Bangs, Outram. 1. The names of the Passenger Pigeon [*Ectopistes macrourus* (Linn.)] and the Mourning Dove [*Zenaidura carolinensis* (Linn.)]. Washington, D.C., Proc. Biol. Soc., 19, 1906, (43-44).

Bangs, O. 2. Notes on birds from Costa Rica and Chiriqui, with descriptions of new forms and new records for Costa Rica. Washington, D.C., Proc. Biol. Soc., 19, 1906, (101-112).

Bangs, O. vide Thayer, John E.

Bankes, A. Knot (*Tringa canutus*) near Salisbury in Wiltshire. Zoologist, London, 10, 1906, (152).

Barbour, Robt. An Eskimo curlew captured at sea. Auk, Cambridge, Mass., N. Ser., 23, 1906, (459).

Barfod. Allerlei Naturkundliches aus Schleswig-Holstein. [Vorkommen v. *Pastor roseus*.] Kiel, Schr. natw. Ver., 13, 1906, (414-416).

Barrett, C. L. The origin and development of parasitical habits in *Cuculidae*. Emu, Melbourne, 6, 1906, (55-60, pls. 6 and 7).

Barrows, Walter B[radford]. Fact and fancy in bird migration. Lansing, Rep. Mich. Acad. Sci., 8, 1906, (13-25).

Bartels, M. Systematische Übersicht meiner Java-Vögel. J. Ornith., Leipzig, 54, 1906, (383-407, 497-519, map), with notes by Otto Finsch.

Bath, W. Die Geschmacksorgane der Vögel und Krokodile. Arch. Biont., Berlin, 1, 1906, (1-47, mit 5 Taf.).

Bather, F. A. "Elimination" in fixing genotypes. Science, New York, N.Y., N. Ser., 24, 1906, (809-810).

Bau, Alexander. Nest und Eier vom Berglaubvogel. Zs. Oologie, Berlin, 16, 1906, (65-68).

Beard, Dan. Long-eared owls resident at Flushing, Long Island, N.Y. Auk, Cambridge, Mass., N. Ser., 23, 1906, (337).

Bedford, [Duchess of]. 1. Black-throated Diver (*Colymbus arcticus*) at Woburn. Zoologist, London, 10, 1906, (36).

Bedford [Duchess of]. 2. Foreign birds at Woburn. Avicult. Mag., Brighton, Ser. 2, 4, 1906, (329-330).

Beebe, C. William. 1. The spring moult of *Larus atricilla* Linn. Auk, Cambridge, Mass., N. Ser., 23, 1906, (454-456, pl.).

Beebe, C. W. 2. How birds get their food. New York, N.Y., Zool. Soc. Bull., No. 23, 1906, (310-316, with illustr.).

Beebe, C. W. 3. Legs and feet of birds. Bird-Lore, Harrisburg, Pa., 8, 1906, (51-59).

Beebe, C. W. 4. The bird, its form and function. (American Nature Series. Group 2. The Functions of Nature.) New York (Holt), 1906, (xi + 496, with col. front. illustr.).

Beebe, C. W. 5. The European lapwing on Long Island, N.Y. Auk, Cambridge, Mass., N. Ser., 23, 1906, (221).

Beill, Alfred. Polski srebrniak. (Der galizische Silbertümmler.) [Tumbler argenté de Pologne.] Hod. drob., Lwów, 7, 1906, (37-39).

B[elcher], C. F. Falcons [in Victoria]. Emu, Melbourne, 6, 1906, (204).

Benham, W. B. 1. Carnivorous habits of the New Zealand Kea Parrot. Nature, London, 73, No. 1902, 1906, (559).

Benham, W. B. 2. The olfactory sense in *Apteryx*. Nature, London, **74**, No. 1914, 1906, (222-223).

Benson, C. W. Bird-notes in Switzerland and Germany in June and July, 1905. Zoologist, London, **10**, 1906, (65-68).

Berge, Robert. Aus dem westlichen Sachsen. Ornith. Monatsber., Berlin, **14**, 1906, (8-9, 63-64).

Bergtold, W. H. Concerning the thick-billed parrot [*Rhynchopsitta pachyrhyncha*]. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (425-428).

Berlepsch, Hans Graf von. 1. On a new form of *Oceanodroma* inhabiting San Benito island, off the coast of Lower California. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (185-186).

Berlepsch, H. Graf von. 2. On new species of Neotropical birds. London, Bull. Brit. Ornith. Cl., **16**, 1906, (97-99).

Berlepsch, H. Graf von und Stolzmann, J. Rapport sur les nouvelles collections ornithologiques faites au Pérou par M. Jean Kalinowski. Ornis, London, **13**, 1906, (63-133).—I. Oiseaux recueillis par M. J. Kalinowski dans le département d'Ayacucho, Pérou occidental, (66-73).—II. Liste des Oiseaux recueillis par M. J. Kalinowski dans le voisinage de la ville de Santa Ana, chef-lieu de la province de la Convencion au Pérou central oriental, (73-102).—III. Liste des Oiseaux recueillis par M. Jean Kalinowski dans la partie septentrionale du département de Cuzco, (103-105).—IV. Liste des Oiseaux recueillis par M. J. Kalinowski dans la vallée de Marcapata, département de Cuzco, (105-126).—V. Liste des Oiseaux recueillis par M. J. Kalinowski dans le département de Puno, Pérou du Sud, (126-133).

Bernard, Paul. Expulsion des œufs ou des petits des parents adoptifs du jeune Coucou. Monthéliard, Mém. soc. émul., **29**, 1902, (71-77).

Berney, F. L. 1. Eagles and Rats. Emu, Melbourne, **6**, 1906, (23).

Berney, F. L. 2. Drought and flood in Queensland, an ornithologist's experience. Emu, Melbourne, **6**, 1906, (267).

Berney, F. L. 3. Field notes on birds of the Richmond district, North Queensland. Part III. Emu, Melbourne, **6**, 1906, (41-47, pls. 5).

Bertelli, D[ante]. Sulla morfologia e sullo sviluppo della laringe degli uccelli. Nota preventiva. Mon. zool. ital., Firenze, **17**, 1906, (282-285).

Bertram, Karl. 1. Beobachtungen über *Apus apus* (L.). [Zugzeiten, Nistweise.] Ornith. Monatschr., Gera, **31**, 1906, (238-253, 257-260).

Bertram, K. 2. Witterungseinflüsse auf den Zug der Vögel. Ornith. Monatsber., Berlin, **14**, 1906, (137-143).

Bertram, K. 3. Von den Behemern [*Fringilla montifringilla*]. Pfälz. Heimatk., Kaiserslautern, **2**, 1906, (89-95).

Besserer, L[udwig] Freiherr von. 1. Ein Ausflug zu den Niststätten der *Sterna nilotica*. München, Verh. ornith. Ges., **6** (1905), 1906, (123-132).

Besserer, [L.] Freiherr von. 2. Die Zwergtrappe in Bayern. Bayr. Forstztg, Nürnberg, **13**, 1906, Nr. 13, (1-5).

Besserer, [L.] Freiherr von. 3. Ein Beitrag zur Bestimmung der Raubvögel im Fluge. Monatshefte Jagdschutzver., Berlin, **11**, 1906, (158-164, 178-183, 193-200).

Beyer, Geo[rge] E[ugene], Allison, Andrew and Kopman, Henry H. List of the birds of Louisiana. Preliminary sketch. Parts. i and ii. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (1-15, incl. map, 275-282).

Bézier. Anomalies de coloration chez la Perdrix grise, la Pie commune et le Geai glandivore. Nantes, Bul. soc. sci. nat., sér. 2, **6**, 1906, (viii-ix).

[Bianchi, V.] 1. Біанки, В. Дополнительныя замѣтки о палеарктическихъ жаворонкахъ (*Alaudidae*). [Notices supplémentaires sur les alouettes paléarctiques (*Alaudidae*).] St. Peterburg, Bull. Ac. Sc., Ser. 5, **23**, 3, 1905 [1906], (205-240).

[Bianchi, V.] 2. Біанки, В. *Kaznakowia*, gen. nov. и *Babax* David 1876, роды семейства *Crateropodidae*,

отр. Passeriformes. [*Kaznakowia* gen. nov. *Babax* David 1876, genres de la famille *Crateropodidae*, ordre Passeriformes.] St. Peterburg, Bull. Ac. Sc., Ser. 5, **23**, 1-2, 1905 [1906], (41-18).

[**Bianchi, V.**] **3.** Бианки, В. Обзоръ формъ родовъ *Cryptolopha*, *Abrornis* и *Tickellia* изъ сем. *Sylviidae*, отр. Passeriformes. [Revue des formes *Cryptolopha*, *Abrornis* et *Tickellia* de la famille *Sylviidae*, ordre Passeriformes.] St. Peterburg, Bull. Ac. Sc., Ser. 5, **23**, 1-2, 1905, [1906], (49-65).

[**Bianchi, V.**] **4.** Бианки, В. Новый видъ фазана, *Phasianus sühschanensis* sp. nov., изъ нагорной, западной части Китая. [Nouvelle espèce de faisan, *Phasianus sühschanensis* sp. nov. de la partie élevée de la Chine occidentale.] St. Peterburg, Bull. Ac. Sc., Ser. 5, **24**, 1-2, 1906, (83-92).

Bianchi, V. **5.** On five new subspecies of birds from South-eastern Tibet. London, Bull. Brit. Ornith. Cl., **16**, 1906, (68-71).

Bildersee, Isaac. **1.** Notes on the nesting of the Lawrence warbler. Bird Lore, Harrisburg, Pa., **6**, 1904, (131-132).

Bildersee, I. **2.** Bird notes from the vicinity of New York city, 1904. Bird Lore, Harrisburg, Pa., **6**, 1904, (167-168).

Bildersee, I. **3.** The European skylark near New York city. Bird Lore, Harrisburg, Pa., **6**, 1904, (204-205).

Bishop, Louis B[ennett]. **1.** The European turnstone [*Arenaria interpres*] in Massachusetts. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (335).

Bishop, L. B. **2.** *Uranomitra salvini* in Arizona. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (337-338).

Bishop, L. B. **3.** Notes from Connecticut. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (344-345).

Bishop, L. B. **4.** Notes on some Californian birds. Condor, Santa Clara, Cal., **8**, 1906, (29).

Bishop, L. B. **5.** Results of a gale at Pacific beach. Condor, Santa Clara, Cal., **8**, 1906, (75).

Bladen, W. W. Bird notes, (1903-5), chiefly taken at Stone. Stone, Rep. N. Staff. F. Cl., **40**, 1906, (53-65).

Blake, Francis G. Winter record for the robin in Hanover, N. H. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (229).

Blasi, J. B. **1.** La faune argentine. Le Tinamou. Aviculteur, Paris, **25**, 1905, (66-69, 77-78).

Blasi, J. B. **2.** La Faune argentine. Le Nandou. Aviculteur, Paris, **25**, 1905, (98-100).

Blasi, J. B. **3.** La Faune argentine. L'Oiseau-Mouche et les Inséparables. Aviculteur, Paris, **25**, 1905, (123-126).

Blasius, [Rudolf]. **1.** Streifzüge durch Irland. J. Ornith., Leipzig, **54**, 1906, (324-325).

Blasius, R. **2.** Die ornithologischen Tagebücher 1847-1887, von H. Gaetke. vide **Gaetke, H.**

Blasius, R. **3.** Joachim Rohweder†. Nachruf. Ornith. Monatschr., Gera, **31**, 1906, (289-297).

Blasius, R. **4.** Jean Frédéric Emile Oustalet†. Nachruf. Ornith. Monatschr., Gera, **31**, 1906, (297-302).

Blathwayt, F. L. Notes on the Kite (*Milvus icinus*) in Somerset. Zoologist, London, **10**, 1906, (377-379).

Boerner, Otto. **1.** Ein Beitrag zur anhaltischen Ornith. Zs. Oologie, Berlin, **16**, 1906, (24-27).

Boerner, O. **2.** Ueberwintern von *Coturnix coturnix* (L.). Ornith. Monatschr., Gera, **31**, 1906, (311-312).

[**Bogoljubov, N. F.**] Боголюбовъ, Н. Ф. Островъ Котлинъ въ зоологическомъ отношеніи. [Die Insel Kotlin in zoologischer Hinsicht]. Prir. i ochota, Moskva, **1906**, 10, (6-19), 11 (8-13), 12 (5-11).

Bolander, Louis. **1.** The nuttall sparrow around San Francisco. Condor, Santa Clara, Cal., **8**, 1906, (73-74).

Bolander, L. **2.** Whistling swans. Condor, Santa Clara, Cal., **8**, 1906, (75).

Bonhote, J. L. **1.** On an intermediate plumage in the Shoveler. London, Bull. Brit. Ornith. Cl., **16**, 1906, (64-65).

Bonhote, J. L. **2.** The square-tailed kite (*Lophoictinia isura*). Avicult. Mag., Brighton, Ser. 2, **4**, 1906, (195-196, cum fig.).

Bonhote, J. L. 3. Aviaries versus cages. *Avicult. Mag.*, Brighton, Ser. 2, **4**, 1906, (205-208).

Bonhote, J. L. 4. The colouration in mammals and birds. *Knowledge and Sci. News*, London, **1905-1906**, (293-294, 316-317, 343, 372-373, 402-404).

Boon, B. Zur Frage vom Vogelinstinkt. *Natur u. Schule*, Leipzig, **5**, 1906, (82-84).

Booth, H. B. Bird migration. *Naturalist*, London, **1906**, (164-166, pl. xii).

Botezat, Eugen. Die Nervenendapparate in den Mundteilen der Vögel und die einheitliche Endigungsweise der peripheren Nerven bei den Wirbeltieren. *Zs. wiss. Zool.*, Leipzig, **84**, 1906, (205-360, 5 Taf.).

Boughton-Leigh, H. A note on the breeding of *Palæornis magnirostris*. *Avicult. Mag.*, Brighton, ser. 2, **4**, 1906, (336).

Boussac, P. Hippolyte. L'Autruche dans la civilisation égyptienne. *Nature*, Paris, **1906**, (2^e sem.), (194-199).

Bouteiller, J. Bird migration, 1905. Observations made on Sable Island, Nova Scotia. *Ottawa Nat.*, **20**, 1906, (127-129).

Bowdish, B. S. Some breeding warblers of Demarest, N. J. *Auk*, Cambridge, Mass., N. Ser., **25**, 1906, (16-19).

Bowles, J. H. 1. The Kennicott screech owl. *Condor*, Santa Clara, Cal., **8**, 1906, (143-144).

Bowles, J. H. 2. The hermit warbler in Washington. *Condor*, Santa Clara, Cal., **8**, 1906, (40-42).

Bowles, J. H. 3. Pacific eider in Washington. *Condor*, Santa Clara, Cal., **8**, 1906, (57).

Bowles, J. H. 4. A list of the birds of Tacoma, Washington, and vicinity. *Auk*, Cambridge, Mass., N. Ser., **23**, 1906, (138-148).

Bowles, C. W. and Bowles, J. H. The Calaveras warbler in Western Washington. *Condor*, Santa Clara, Cal., **8**, 1906, (68-69).

Boxberger, Georg von. Brutnotizen zur Ornith. Marburgensis aus dem Jahre 1906. *Zs. Oologie*, Berlin, **16**, 1906, (68-75, 86-89, 99-103).

Boxberger, Leo von. 1. Die Skua. *Kosmos*, Stuttgart, **3**, 1906, (366-370).

Boxberger, L. v. 2. Ueber Eiermessungen. *Zs. Oologie*, Berlin, **15**, 1906, (145-148).

Boxberger, L. v. 3. Nachtrag, Februarbruten, grosse Raubmöve. *Zs. Oologie*, Berlin, **15**, 1906, (163).

Boxberger, L. v. 4. Was lässt sich zur Verhütung des Aussterbens gewisser Vogelarten in Deutschland tun? *Ornith. Monatschr.*, Gera, **31**, 1906, (129-133).—Bemerkung dazu v. P. Emmrich, *l.c.* (306-307).

Boyer, Jacques. L'île des Albatros [Laysan]. *Nature*, Paris, **34**, 1906, (2^e sem.), (387-389).

Bradlee, Thomas S. Audubon's shearwater and Peale's petrel breeding in Bermuda. *Auk*, Cambridge, Mass., N. Ser., **23**, 1906, (217).

Braislin, William C. The Florida gallinule nesting on Long island, New York. *Auk*, Cambridge, Mass., N. Ser., **23**, 1906, (189-194).

Branca, A. Sur les fibrilles épidermiques des productions cornées. *Nancy, C.-R. ass. anat.*, **8**, 1906, (143-144).

Brauer, A. Beobachtungen bei Grimma i. S. *Gefied. Welt*, Magdeburg, **35**, 1906, (135).

Braun, Fritz. 1. Zur Kenntnis des Rosenstares. *Gefied. Welt*, Magdeburg, **35**, 1906, (116-117).

Braun, F. 2. Noch einmal der Vogelgesang. *Gefied. Welt*, Magdeburg, **35**, 1906, (276-278, 283-284).

Braun, F. 3. Bemerkungen zum Vogelzuge. *Danzig, Ber. bot.-zool. Ver.*, **28**, 1906, (4-7).

Braun, F. 4. Ueber die Annern des Orients. *Natur. u. Haus*, Dresden, **14**, 1906, (309-312).

Braun, F. 5. Ueber Geselligkeit und Ungeselligkeit gefangener Vögel. *Ornith. Monatsber.*, Berlin, **14**, 1906, (153-157).

Braun, F. 6. Ornithologisches aus Konstantinopel. *Ornith. Monatsber.*, Berlin, **14**, 1906, (115-116).

Braun, F. 7. Zu den triebmässigen Ursachen des Vogelzuges. *Ornith. Monatsber.*, Berlin, **14**, 1906, (93-95).

Braun, F. 8. Bemerkungen zum Vogelzuge. Ornith. Monatschr., Gera, **31**, 1906, (214-224).

Braun, M[ax]. 1. Ueber ein Storch-nest auf ebener Erde. Königsberg, Schr. physik. Ges., **47**, 1906, (80-83).

Braun, M. 2. Ueber die Ankunftszeit der Störche und anderer Zugvögel in Ostpreussen. Königsberg, Schr., physik. Ges., **46**, (1905), 1906, (164-169).

Braun, M. 3. Pelikane in Alt-Preussen. Königsberg, Schr. physik. Ges., **46**, (1905), 1906, (180-181).

Braun, M. 4. Sammlung von Original-Abbildungen preussischer Vögel aus den Jahren 1655-1737. [Jac. Theod. Klein.] Königsberg, Schr. physik. Ges., **46**, (1905), 1906, (188-192).

Braun, M. 5. [Vorkommen v. *Otis tarda* in Preussen.] Königsberg, Schr. physik. Ges., **46**, (1905), 1906, (193).

Bray, J. S. Yellow Robins as Snake finders. Emu, Melbourne, **5**, 1906, (217).

Brent, A. E. Young Cuckoo fed by two pairs of Honey-eaters. Emu, Melbourne, **5**, 1906, (209, 210).

Brewster, William. Occurrence of the lapwing and the turkey buzzard in Newfoundland. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (221).

Briecke, W. Katze und Nebelkrähe. Natw. Wochenschr., Jena, **21**, 1906, (282).

Brook, E. J. Successful breeding of the White-eared Conure (*Pyrrhura leucotis*). Avicult. Mag., Brighton, Ser. 2, **5**, 1906, (59-60).

Broom, R. On the early development of the appendicular skeleton of the ostrich with remarks on the origin of birds. Cape Town, Trans. S. Afric. Phil. Soc., **16**, pt. 4, 1906, (355-369, pl. ix).

Brown, Herbert. The water turkey and tree ducks near Tucson, Arizona. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (217-218).

Brown, J. G. Notes on the water-birds of the Zwaartkops River, Port Elizabeth, Cape Colony. Pretoria, J. S. Afric. Ornith. Union, **1**, 1906, (39-48).

Brown, Nathan Clifford. 1. A ruffed grouse [*Bonasa umbellus*] near Camden, South Carolina. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (336).

Brown, N. C. 2. The titlark [*Anthus pensilvanicus*] at Portland, Maine, in spring. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (342).

Brown, N. C. 3. A great flight of robins and cedar-birds. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (342-343).

Brown, N. C. 4. A new song. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (461-462).

Brown, N. C. 5. The Maryland yellowthroat and Bachman's finch, near Camden, South Carolina, in winter. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (227-228).

Brown, R. A. A study of the birds of the Overflow, east of Ann Arbor, Mich. Lansing, Rep. Mich. Acad. Sci., **8**, 1906, (162-174).

Brückner, Ad. vide Lindner C.

Brünig, C. Besuch seltener Vögel in Ostfriesland. D. Forstztg, Neudamm, **21**, 1906, (944).

Buda, Ádám. 1. Madárvilágunk pusztulása az utolsó félszázad alatt. [Die Verminderung unserer Vogelwelt in den letzten 50 Jahren.] Aquila, Budapest, **13**, 1906, (162-168).

Buda, Á. 2. A *Cerchneis respertinus* (L.) fészkelése Réán. [Das Nisten von *Cerchneis respertinus* (L.) in Réa.] Aquila, Budapest, **13**, 1906, (169-170).

Bujard, Eug. Sur les villosités intestinales. Quelques types chez les Oiseaux. C.-R. ass. anat., 8^e session (Bordeaux), Nancy, **1906**, (128-132).

Bukowsky, J. W. Der Mageninhalt der Waldhühner und Zugvögel. [Magensteine.] Sanct Hubertus, Cöthen, **24**, 1906, (225-228).

Buller, Sir Walter L. Obituaries. Emu, Melbourne, **6**, 1906, (79, 81); Ibis, London, **1906**, (733-735).

Bunyard, P. F. 1. Nesting of *Motacilla borealis* in Kent. London, Bull. Brit. Ornith. Cl., **19**, 1906, (23, 24).

Bunyard, P. F. 2. An ornithological visit to the Faroes. Zoologist, London, **10**, 1906, (81-93, pl. i).

Bunyard, P. F. 3. Does the Black-bird eat snails? *Zoologist*, London, **10**, 1906, (390-391).

Bureau, L. Comte E. Arrigoni degli Oddi: Atlante ornitologico degli uccelli europei: Compte rendu bibliographique. Paris, Bul. soc. zool., **28**, 1903, (136-137).

Burg, G[ustav] von. 1. Anormale Färbung bei Vögeln. München, Verh. ornith. Ges., **6** (1905), 1906, (120-123).

Burg, G. von. 2. *Buteo ferox* in der Schweiz. Ornith. Monatsber., Berlin, **14**, 1906, (63).

Butler, A. G. 1. Aviaries versus cages. *Avicult. Mag.*, Brighton, Ser. 2, **4**, 1906, (145-150).

Butler, A. G. 2. The genus *Phonipara*. *Avicult. Mag.*, Brighton, Ser. 2, **4**, 1906, (153-154).

Butler, A. G. 3. Aviary experiences in 1905. *Avicult. Mag.*, Brighton, Ser. 2, **4**, 1906, (159-163).

Butler, A. G. 4. Notes on the American Starlings. *Avicult. Mag.*, Brighton, Ser. 2, **4**, 1906, (168-170).

Butler, A. G. 5. The Quail Finch (*Ortygospiza polyzona*). *Avicult. Mag.*, Brighton, **2**, **4**, 1906, (170-172).

Butler, A. G. 6. The Red-headed Troupial (*Amblyramphus holosericeus*). *Avicult. Mag.*, Brighton, **2**, **4**, (177).

Butler, A. G. 7. Instinct or imitation. *Avicult. Mag.*, Brighton, **2**, **4**, 1906, (178-179).

Butler, A. G. 8. Aviculture and science. *Avicult. Mag.*, Brighton, **2**, **4**, 1906, (241-242).

Butler, A. G. 9. Notes on the Maiden Dove (*Calopelia puella*). *Avicult. Mag.*, Brighton, **2**, **4**, 1906, (251-254, cum tab.).

Butler, A. G. 10. On breeding the Tambourine Dove (*Tympanistria tympanistria*). *Avicult. Mag.*, Brighton, **2**, **4**, 1906, (307-310).

Butler, A. G. 11. Further notes on the Grey-winged Ouzel (*Merula bouboul*). *Avicult. Mag.*, Brighton, **2**, **4**, 1906, (312-314).

Butler, A. G. 12. The mutation of the Gouldian Finch (*Poephila mirabilis*). *Avicult. Mag.*, Brighton, **2**, **4**, 1906, (326-329).

Butler, A. G. 13. Notes on hybrid *Phocidae*. *Avicult. Mag.*, Brighton, **2**, **4**, 1906, (345-354).

Butler, A. L. The Scrub-Tit (*Acanthornis magna*). *Emu*, Melbourne, **5**, 1906, (156-157).

Butler, Amos W[illiam]. Some notes on Indiana birds. *Auk*, Cambridge, Mass., N. Ser., **23**, 1906, (271-274).

Butterfield, W. R. 1. Occurrence of the Wall-Creeper in Sussex. London, Bull. Brit. Ornith. Cl., **16**, 1906, (44-45).

Butterfield, W. R. 2. On the occurrence of *Puffinus kuhl* in Sussex. London, Bull. Brit. Ornith. Cl., **16**, 1906, (71).

Butterfield, W. R. 3. Cuckoo's egg in nest of Twite. *Zoologist*, London, **10**, 1906, (31-33).

Butterfield, W. R. 4. A plea for the further recognition of subspecies in Ornithology. *Zoologist*, London, **10**, 1906, (62-64).

Buturlin, S. A. 1. The breeding-grounds of the Rosy Gull. *Ibis*, London, **1906**, (131-139, 333-337, 400, 661-666).

Buturlin, S. A. 2. On the birds collected in Transcaucasia by Mr. A. M. Kobylin. *Ibis*, London, **1906**, (407-427).

Buturlin. 3. Notes on some Palearctic birds. *Ibis*, London, **1906**, (736-737).

[Buturlin, S.] **4.** Бутурлинъ, С. Интересныя [орнитологическія] находки [Interessante [ornithologische] Funde]: Psov. i ruzejn. ochota, Moskva, **12**, 1906, (318).

[Buturlin, S.] **5.** Бутурлинъ, С. Птицы Закавказья по сборамъ А. М. Кобылина. [Die Vögel Transkaukasiens nach den Kollektionen von A. M. Kobylin.] Psov. i ruzejn. ochota, Moskva [Buchaug.] **1906**, **5**, (58-73).

[Buturlin, S.] **6.** Бутурлинъ, С. Последній отвѣтъ г. Мензбину. [Letzte Antwort an Herrn Mensbir.] Psov. i ruzejn. ochota, Moskva [Buchaug.] **1906**, **4**, (68-101).

[Buturlin, S.] **7.** Бутурлинъ, С. Скворцы. [Die Staare.] Psov. i ruzejn. ochota, Moskva [Buchaugabe], **1906**, **1**, (35-43), **2**, (33-39).

[Buturlin, S.] 8. Бутурлинъ, С. Почему птицы летятъ правильнымъ строемъ. [Warum die Vögel in regelmässig angeordneten Scharen fliegen.] Psov. i ružejn. ochota, Moskva [Buchausgabe], 1906, 1, (127-145).

[Buturlin, S. A.] 9. Бутурлинъ, С. А. Охотничьи птицы низовья Колымы. [Die jagdbaren Vögel am Unterlauf der Kolyma.] Psov. i ružejn. ochota, Moskva, 12, 1906, (12-13, 28-29).

Buturlin, S. A. *vide* Sarudny, N. A.

Buturlin, S. A. *vide* Žitkov, B. M.

Cabanis, J. Obituary. Ibis, London, 1906, (606-608).

Callender, J. P. The redpoll breeding on the Magdalen islands. Auk, Cambridge, Mass., N. Ser., 23, 1906, (102-103).

Cameron, E. S. Nesting of the Great Blue Heron in Montana. Auk, Cambridge, Mass., N. Ser., 23, 1906, (252-262, pl.).

Campbell, A. G. 1. Report on the birds of Kangaroo Island: a comparison with Melbourne forms. Emu, Melbourne, 5, 1906, (139-145).

Campbell, A. G. 2. The moult of the Blue Wren (*Malurus*). Emu, Melbourne, 5, 1906, (152-155).

Campbell, A. G. 3. A psalm of dawn. Emu, Melbourne, 5, 1906, (199-201).

Campbell, A. G. 4. Some Victorian winter notes. Emu, Melbourne, 6, 1906, (60-65).

Campbell, A. G. 5. Birds of the Grampians, Victoria. Emu, Melbourne, 6, 1906, (71-72).

Campbell, A. J. 1. Domestic Wildcats *v.* Native birds. Emu, Melbourne, 5, 1906, (201).

Campbell, A. J. 2. Oological notes and further description of new Fruit-Pigeon. Emu, Melbourne, 5, 1906, (195-199).

Campbell, A. J. 3. Annotations. Emu, Melbourne, 6, 1906, (15, 16).

Campbell, E. M. Birds new for Australia. Emu, Melbourne, 5, 1906, (155-156).

Campbell, H. Introduction of Australian Magpies to Ceylon. Emu, Melbourne, 5, 1906, (231-232).

Carlier, E. Wace. Note on the elastic tissue in the eye of Birds. Edinburgh, Proc. Scot. Microsc. Soc., 4, 1906, (70-92, pls. vii-x).

Carpenter, Frederick Walton. 1. The development of the oculomotor nerve, the ciliary ganglion, and the abducent nerve in the chick. Cambridge, Mass., Bull. Mus. Comp. Zool., Harvard Coll., 48, 1906, (139-230, 7 pls.).

Carpenter, Frederic W[alton]. 2. An astronomical determination of the heights of birds during nocturnal migration. Auk, Cambridge, Mass., N. Ser., 23, 1906, (210-217).

Carpenter, Nelson. A small egg. Condor, Santa Clara, Cal., 8, 1906, (57).

Castellain, A. List of birds and flowers of Bath and its neighbourhood. Bath, Proc. Nat. Hist. F. Cl., 11, 1906, (26-35).

Caster, Gustav. Entgegnung auf „Beiträge zur Monographie der Turteltaube (*Columba turtur* L.)“. Zool. Beob., Frankfurt a. M., 47, 1906, (53-55).—Erwiderung v. Willh. Schuster, ebenda, (201-202).—Weiteres dazu v. Paul Wemer, ebenda, (302-303).

Castle-Sloane, C. Notes on Doves. Avicult. Mag., Brighton, 2, 5, 1906, (41-42).

[Čerepova, V. A.] 1. Черепова, В. А. Дрофы въ неволѣ. [Die Trappen in der Gefangenschaft.] Psov. i ružejn. ochota, Moskva, 1905, 9, (128-137). (8vo).

[Čerepova, V.] 2. Черепова, В. О размноженіи дрофы въ неволѣ и способѣ ихъ ловли. [Ueber die Fortpflanzung der Trappen in Gefangenschaft und über die Art dieselben einzufangen.] Psov. i ružejn. ochota, Moskva, 11, 1905, (455-456). 4to.

Chaine, J. *vide* Künstler, J.

Chambers, C. E. S. Pallas's Sandgrouse in East Lothian. Field, London, 1906, (901).

Chapel, F. de. Note sur l'*Anhinga plotus*. Nimes, Bul. soc. étud. sci. nat., 31, 1903, [1904], (28-29).

Chapman, Frank M[ichler]. 1. Climatic variation in color and size of Song Sparrows. *Bird Lore*, Harrisburg, Pa., **6**, 1904, (164-165).

Chapman, F. M. 2. Young Flamingos. *Bird Lore*, Harrisburg, Pa., **6**, 1904, (193-198).

Chapman, F. M. 3. The birds of the vicinity of New York city. Guide Leaflet No. **22**. [*In*] *Amer. Mus. J.*, New York, N.Y., **6**, 1906, (80-102, 135-196).

Chapman, F. M. 4. An American's impressions of English bird life. *Scribner's Magazine*, New York, N.Y., **39**, 1906, (705-720).

Chapman, F. M. *vide* Seton, Ernest Thompson.

Chappellier. Œuf de poule domestique caché dans un vieux nid de merle. Feuille jeunes natural., Paris, (sér. 4), **36**, 1906, (77-78).

Chappellier, Albert *vide* Loisel, G.

Charlton, H. V. The Chiffchaff at Northumberland in December. *Zoologist*, London, **10**, 1906, (27).

Cherrie, Geo[rge] K[ruck]. Species of birds collected at St. Mathews cocoa estate, Heights of Aripo, Trinidad. Brooklyn, N.Y., *Mus. Inst. Arts Sci.*, Bull., **1**, 1906, (187-192).

Chiarini, P. Changements morphologiques que l'on observe dans la rétine des vertébrés par l'action de la lumière et de l'obscurité. Première partie; *Arch. ital. biol.*, Torino, **42**, [1904], (303-322); Deuxième partie. *op. cit.*, **45**, 1906, (337-352).

Chigi, Franc. *Passer domesticus* (Lin.). Roma, *Boll. Soc. zool. ital.*, Ser. 2, **6**, 1906, (49-50).

Cholodkowsky, N. Cestodes nouveaux ou peu connus (1^{re} série). *Arch. parasit.*, Paris, **10**, 1906, (331-345, av. fig.).

Christy, Bayard H. and **McClintock, Norman.** The Herring Gull on Lake Superior. *Bird Lore*, Harrisburg, Pa., **6**, 1904, (86-88).

Chubb, C. 1. List of birds observed or collected in Liberia by Herr Schweitzer, Dr. Büttikofer, Mr. R. P. Currie, and by Sir H. H. Johnston, Messrs. Harold Reynolds, Alexander Whyte, John Gow and J. Maitland Pye-Smith.

[*in*] Sir Harry Johnston [*q.v.*]. Liberia, 2, Appendix, **6**, 1906, (787-806).

Chubb, C. 2. On a new species of *Heleodytes* from Peru. London, *Bull. Brit. Ornith. Cl.*, **19**, 1906, (34).

Chubb, C. *vide* Sharpe, R. B.

Chudeau, René. Extinction de l'Autruche au Sahara. Paris, *C.-R. soc. biol.*, **60**, 1906, (114-115).

Ciaccio, Carmelo. Ricerche istologiche e citologiche sul timo degli uccelli. *Anat. Anz.*, Jena, **29**, 1906, (597-600).

Clark, Austin H[erbert]. The West Indian black forms of the genus *Coereba*. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (392-395).

Clark, Hubert Lyman. The feather tracts of swifts and humming-birds. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (68-91, 2 pls.).

Clark, J. and **Rodd, F. R.** The birds of Scilly. *Zoologist*, London, **10**, 1906, (242-252, 295-306, 335-346).

Clarke, W. Eagle. 1. Ornithological results of the Scottish National Antarctic Expedition. 1. On the Birds of the South Orkney Islands. *Ibis*, London, **1906**, (145-187, pls. iii-xiii).

Clarke, W. E. 2. Bird life at the South Orkney islands. *Nature*, London, **73**, 1906, (570-571).

Clarke, W. E. 3. The birds of Fair Isle, native and migratory. *Ann. Scot. Nat. Hist.*, Edinburgh, **1906**, (4-21, 69-80, pls. i, ii).

Clarke, W. E. 4. Some rare birds from Scottish stations. *Ann. Scot. Nat. Hist.*, Edinburgh, **1906**, (137-139).

Clarke, W. E. 5. On the occurrence of the Red-rumped Swallow (*Hirundo rufula*) at Fair Isle: a new bird to the British Fauna. *Ann. Scot. Nat. Hist.*, Edinburgh, **1906**, (205-207).

Clarke, W. E. 6. On the southern range of the Arctic Tern. London, *Bull. Brit. Ornith. Cl.*, **19**, 1906, (18).

Clarke, W. E. 7. The Siberian Chiffchaff on Suleskerry, and *Hirundo rufula* on Fair Isle. London, *Bull. Brit. Ornith. Cl.*, **19**, 1906, (18).

Clarke, W. E. and **Kinnear, N. B.** Rare birds at Fair Isle. *Ann. Scot. Nat. Hist.*, Edinburgh, **1906**, (236-237).

Cleave, H. P. O. 1. Breeding of the Hen-Harrier in Cornwall. *Zoologist*, London, **10**, 1906, (34-35).

Cleave, H. P. O. 2. Ornithological notes from Plymouth. *Zoologist*, London, **10**, 1906, (236-237).

Cleland, J. B. 1. Some bird observations. *Emu*, Melbourne, **5**, 1906, (189-192).

Cleland, J. B. 2. Mechanical advantages of the shape of swans for feeding. *Emu*, Melbourne, **5**, 1906, (206).

Cleland, J. B. 3. On the origin of the name "Petrel." *Emu*, Melbourne, **5**, 1906, (206-207).

Cleland, J. B. 4. Birds of Kangaroo Island. *Emu*, Melbourne, **5**, 1906, (207-208).

Cleland, J. B. 5. Do other birds beside the *Dicaeum* distribute mistletoes? *Emu*, Melbourne, **5**, 1906, (223-224).

Coburn, F. The Geese of Europe and Asia. *Zoologist*, London, **10**, 1906, (150-152).

Cocks, A. H. Pelicans reported in Oxfordshire. *Zoologist*, London, **10**, 1906, (193-194).

Cole, Leon J. *Aves.* (Vertebrata from Yucatan. 3.) Cambridge, Mass., *Bull. Mus. Comp. Zool.*, Harvard Coll., **50**, 1906, (109-146).

Collett, A. A handbook of British inland birds. With coloured and outline plates of eggs by Eric Parker. London, 1906, (xx + 289, 10 pls.). 8vo.

Collin, R. 1. Evolution du nucléole dans les neuroblastes de la moelle épinière chez l'embryon du poulet. C.-R. ass. anat., 8^e session, (Bordeaux), Nancy, **1906**, (71-74).

Collin, R. 2. Histolyse de certains neuroblastes au cours du développement du tube nerveux chez le poulet. Paris, C.-R. soc. biol., **60**, 1906, (1080-1081); Réunion biol., Nancy, **1906**, (32-33).

Cooke, Wells W. 1. Swallow-tailed flycatcher (*Muscivora forficata*) in New Brunswick. *Auk*, Cambridge, Mass., N. Ser. **23**, 1906, (460).

Cooke, W. W. 2. The birds of Wyoming; some corrections. *Auk*, Cambridge, Mass., N. Ser. **23**, 1906, (464-465).

Cooke, W. W. 3. The migration of warblers. *Bird Lore*, Harrisburg, Pa., **6**, 1904, (21-24, 57-60, 130-131, 162-163, 1 pl.).

Cooke, W. W. [compiler]. 4. The migration of warblers. *Bird Lore*, Harrisburg, Pa., **8**, 1906, (26-27, 61-62, 100-102, 134, 168-169, 203-204).

Cooke, W. W. 5. Distribution and migration of North American ducks, geese, and swans. Washington, D.C., *Bull. U. S. Dept. Agric., Biol. Surv.*, No. **26**, 1906, (1-90).

Coolidge, P. T. Notes on the screech owl. *Auk*, Cambridge, Mass., N. Ser. **23**, 1906, (48-55).

Corbin, C. B. 1. Notes from Ringwood, Hants. *Zoologist*, London, **10**, 1906, (190-191).

Corbin, G. B. 2. A small Sparrow Hawk (*Accipiter nisus*). *Zoologist*, London, **10**, 1906, (192-193).

Corti, Alfredo. I ciechi dell' intestino terminale di *Colymbus septentrionalis* con ragguagli comparativi e considerazioni. Milano, *Atti Soc. ital. sc. nat.*, **45**, 1906, (71-99).

Coward, T. A. 1. Shore-lark in Cheshire. *Zoologist*, London, **10**, 1906, (72).

Coward, T. A. 2. Kuot (*Tringa canutus*) inland in Cheshire. *Zoologist*, London, **10**, 1906, (76-77).

Coward, T. A. 3. Baillon's Crake (*Porzana bailloni*) near Stockport. *Zoologist*, London, **10**, 1906, (395-396).

Craigmile, Esther. Common birds of Whittier, California. *Wilson Bull.*, Oberlin, Ohio, **18**, N. Ser., **13**, 1906, (83-87).

Csiki, Ernő. Biztos adatok mada-raink táplálkozásáról. [Positive Daten über die Nahrung unserer Vögel.] *Aquila*, Budapest, **13**, 1906, (148-161).

Csörgy, Titus. A magyar ornisz néhány új alakja. [Einige neue Vertreter der ungarischen Ornis.] *Aquila*, Budapest, **13**, 1906, (171-179, 2 Taf.).

Cummings, B. F. 1. Winter ornithological notes from Barnstaple. *Zoologist*, London, **10**, 1906, (237-239).

Cummings, B. F. 2. Goldsmith as a Naturalist. *Zoologist*, London, **10**, 1906, (380-385, 471).

Cummings, S. G. 1. Cirl-bunting (*Emberiza cirlus*) in Cheshire. Zoologist, London, **10**, 1906, (71-72).

Cummings, S. G. 2. Late stay of Bramblings (*Fringilla montifringilla*) in Cheshire. Zoologist, London, **10**, 1906, (188-189).

Cummings, S. G. and Oldham, C. Anglesea bird-notes. Zoologist, London, **10**, 1906, (94-104).

Curtis, W. P. The Ringed Plover (*Aegialitis hiaticola*). Dorchester, Proc. Dorset. Nat. Hist. F. Cl., **27**, 1906, (189-213, pls. 4-15).

Dagliesh, G. 1. Ornithological notes from Surrey. Zoologist, London, **10**, 1906, (114-115).

Dagliesh, G. 2. Observational notes on the Wild Duck (*Anas boschas*) and the Little Grebe (*Podiceps fluvialis*). Zoologist, London, **10**, 1906, (281-284).

Dagliesh, G. 3. Notes on the Indian *Podicipedidae*. Avicult. Mag., Brighton, **2**, **5**, 1906, (65-72, 1 pl.).

Dankler, M. 1. Unsere Finken. Ein Herbst- und Winterbild aus der Vogelwelt. Natur u. Glaube, Leutkirch, **9**, 1906, (255-264).

Dankler, M. 2. Vogelleben in Holland und an der holl. Küste. Natur u. Offenb., Münster, **52**, 1906, (749-753).

Davenport, C[harles] B[enedict]. 1. On the imperfection of Mendelian dominance in poultry hybrids. [Abstract.] New York, N.Y., Proc. Soc. Exp. Biol. Med., **3**, 1906, (31-32).

Davenport, C. B. 2. Evolution without mutation. J. Exp. Zool., Baltimore, Md., **2**, 1905, (137-143).

Davenport, C. B. 3. Inheritance in poultry. Washington (Carnegie Institution), Publication No. 52, 1906, (v + 136, pl.).

Dawson, W. Leon. 1. November aspects in Spokane county, Washington. Wilson Bull., Oberlin, Ohio, **18**, N. Ser., **13**, 1906, (14-17).

Dawson, W. L. 2. *Chaetura vanxi*: a correction. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (224-225).

Deane, Ruthven. 1. Unusual abundance of the Snowy Owl (*Nyctea nyctea*). Auk, Cambridge, Mass., N. Ser., **23**, 1906, (283-298).

Deane, R. 2. Unpublished letters of John James Audubon and Spencer F. Baird. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (194-209, 318-334).

Deane, R. 3. A northern record for the swallow-tailed kite (*Elanoides forficatus*) in Wisconsin. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (100).

Deane, R. 4. Another large flight of snowy owls. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (100-101).

Deane, R. 5. Great gray owl (*Scotiaptex cinerea*) in Minnesota. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (222-223).

Denker, Alfred. 1. Die Membrana basilaris im Papageienohr und die Helmholtz'sche Resonanztheorie. Biol. Centralbl., Leipzig, **26**, 1906, (600-608).

Denker, A. 2. Zur Anatomie des Gehörorgans der Papageien. Erlangen, SitzBer. physik. Soc., **37**, (1905), 1906, (464-465).

Detmers, Erwin. 1. Die Feindschaft zwischen Krähe und Sperber. Zool. Beob., Frankfurt a. M., **47**, 1906, (110-113).

Detmers, E. 2. Ueberwinternde Reiher und Turmfalken. Zool. Beob., Frankfurt a. M., **47**, 1906, (116-117).

Detmers, E. 3. Die Raubvögel des Zoologischen Gartens in Hannover. Zool. Beob., Frankfurt a. M., **47**, 1906, (329-335, 2 Taf.).

Detmers, E. 4. Elstern beim Nestbau. Zs. Oologie, Berlin, **16**, 1906, (113-114).

Dewar, D. Bombay Ducks. An account of some of the every day birds and beasts found in a Naturalist's Eldorado. With numerous illustrations from photographs of living birds by Captain F. D. S. Fayrer, I.M.S. London, 1906, (xii + 303, 38 pls.). 8vo.

Dichtl, Adolf. Mein Wiedehopf. Gefied. Welt, Magdeburg, **35**, 1906, (61-62).

Dietrich, Fr. Ein Besuch der Gooseinseln im Eisfjord bei Spitzbergen. Zs. Oologie, Berlin, **16**, 1906, (129-132).

Dixon, Joseph. Land birds of San Onofre, California. Condor, Santa Clara, Cal., **8**, 1906, (91-98).

Dobey, Ladislaus von. Interessant gefärbte Gelege meiner Sammlung. Zs. Oologie, Berlin, **16**, 1906, (10-11, 20-24).

D'Ombrain, E. A. 1. Curious nests of Australian birds. Emu, Melbourne, **5**, 1906, (157-158, pl. xii).

D'Ombrain. 2. Visit to an Ibis rookery. Emu, Melbourne, **5**, 1906, (185-189, pl. xiv).

Dorrien-Smith, A. On the occurrences of the Greater Yellow-shanks in the Scilly Isles. London, Bull. Brit. Ornith. Cl., **19**, 1906, (7).

Douglass, [Hon.] A. 1. On Ostrich farming. London Rep. Brit. Ass., **1905**, (435-436).

Douglas, A. 2. Ostrich-farming in South Africa. Ibis, London, **1906**, (46-52).

Dove, H. S. 1. Feathered friends in New Zealand. Emu, Melbourne, **6**, 1906, (8-12).

Dove, H. S. 2. Spring in autumn. Emu, Melbourne, **6**, 1906, (19-21).

Dove, H. S. 3. The White-eye (*Zosterops coerulescens*). Emu, Melbourne, **6**, 1906, (53-55).

Dove, H. S. 4. The Gannet [in Tasmania]. Emu, Melbourne, **6**, 1906, (150-160).

Dresser, H. E. 1. Eggs of the birds of Europe, including all the species inhabiting the Western Palearctic area. Parts 3-6. London, 1906, 4to.

Dresser, H. E. 2. On some Palearctic Birds' eggs from Tibet. Ibis, London, **1906**, (337-347).

Dresser, H. E. 3. Note on the eggs of Ross' Rosy Gull. Ibis, London, **1906**, (610-611, pl. 20).

Dresser, H. E. 4. Exhibition of eggs of Ross' Gull. London, Bull. Brit. Ornith. Cl., **16**, 1906, (97).

Dubois, Alph. 1. Remarques au sujet de la "Convention pour la protection des Oiseaux utiles à l'agriculture." Paris, Bul. soc. zool., **31**, 1906, (90-97).

Dubois, A. 2. Nouvelles observations sur la faune ornithologique de Belgique. Ornith. London, **16**, 1906, (134-136).

Dubois, Raphaël. A propos d'une Note de M. François-Franck sur la discussion de la théorie classique du fonctionnement des sacs aériens des oiseaux (pigeons). Paris, C.-R. soc. biol., **61**, 1906, (591).

Dubuisson. Formation du vitellus chez le moineau. Paris, C.-R. Acad. sci., **141**, 1905, (776-777).

Dunbar, J. Brander. Jack Snipe in Elginshire. Field, London, **1906**, (Aug. 25), (342).

Duncan, O. Notes on the genus *Pyromelana* (Bishop Birds) with reference in particular to the seasonal changes of plumage and nidification in captivity of *P. oryx*. (Red Bishop bird). Pretoria, J. S. Afric. Ornith. Union, **1**, 1906, (57-61).

Dunlop, E. D. Whooper Swan (*Cygnus musicus*) at Carlisle. Zoologist, London, **10**, 1906, (193).

Dutt, W. A. Wild life in East Anglia. London: 1906 (370; pls. 1-16). Svo.

Dwight, Jonathan jun. 1. Status and plumages of the white-winged gulls of the genus *Larus*. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (26-43, 1 pl.).

Dwight, J. jun. 2. First capture of Townsend's solitaire on Long Island, New York. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (105-106).

Dyche, L[ewis] J[indsay]. The red phalarope, a new bird for the Kansas list. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (220).

Dyke, Arthur C[urtis]. Nest of saw-whet owl at Bridgewater, Mass. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (337).

Eastwood, G. H. Pied Flycatcher (*Muscicapa atricapilla*) in Surrey. Zoologist, London, **10**, 1906, (313).

Eberts. Der Star als Vertilger des Eichenwicklers, *Tortrix viridana*. Allg. Forstztg, Frankfurt a. M., **82**, 1906, (36).

Eckardt, Wilhelm. Die Entstehung des Vogelzuges auf Grund geographischer Tatsachen. Gaea, Leipzig, **42**, 1906, (36-41).

Eckstein, Karl. Die Vogelsammlung der Schule. Natur u. Schule, Leipzig, **5**, 1906, (311-313).

Eifrig, C. W. G. 1. Notes on some northern birds. *Auk*, Cambridge, Mass., N. Ser., **23**, 1906, (313-318).

Eifrig, C. W. G. 2. The Great Gray Owl. *Ottawa Nat.*, **20**, 1906, (79-81).

Eifrig, C. W. G. 3. The spring migration of birds at Ottawa of the year 1906, compared with that of other seasons. *Ottawa Nat.*, **20**, 1906, (144-148).

Ellison, A. 1. The Cuckoo and its foster-parents. *Zoologist*, London, **10**, 1906, (72-74).

Ellison, A. 2. The breeding range of the Twite (*Linota flavirostris*). *Zoologist*, London, **10**, 1906, (150).

Elms, E. F. M. 1. Economical nesting habits of the Willow-Warbler (*Phylloscopus trochilus*) and the Wren (*Troglodytes parrulus*). *Zoologist*, London, **10**, 1906, (27-28).

Elms, E. F. M. 2. Curious nesting habit of the Long-tailed Tit (*Acredula caudata*). *Zoologist*, London, **10**, 1906, (28).

Elms, E. F. M. 3. A pocket book of British birds.

Elwes, H. J. Blanford, W. T. [the late.] An appreciation. *Ibis*, London, **1906**, (215-216).

Emerson, W. Otto. 1. Red phase of the California screech owl? [*Megascops asio bendirei*.] *Condor*, Santa Clara, Cal., **8**, 1906, (29).

Emerson, W. O. 2. *Oceanodroma leucorhoa* and its relatives on the Pacific coast. *Condor*, Santa Clara, Cal., **8**, 1906, (53-55).

Emerson, W. O. 3. The habits of a mocking bird. *Condor*, Santa Clara, Cal., **8**, 1906, (51-52).

Emmrich, P. *vide* Boxberger, Leo von.

Enjalbert, J. Fidélité conjugale de certains animaux. Feuille jeunes natural., Paris, Sér. 4, **35**, 1905, (125-129).

Eustis, R. S. Nesting of the junco in eastern Massachusetts. *Auk*, Cambridge, Mass., N. Ser., **23**, 1906, (103).

Evans, A. H. 1. Bird-notes from South Africa. *Ibis*, London, **1906**, (347-361).

(N-972)g

Evans, A. H. 2. The ostrich and its allies. London, Rep. Brit. Ass., **1905**, (435).

Evans, A. H. 3. The ostrich and its allies. London, Rep. Brit. Ass., **3**, (special volumes), 1906, (51-56).

Exner, Sigm. Ueber das „Schweben“ der Raubvögel. *Arch. ges. Physiol.*, Bonn, **114**, 1906, (109).

Falconieri di Carpegna, Guido. Una *Nyctea scandiaca* (Linn.), due *Carpodacus rubricilla* (Güldenst.) e un *Tetraogallus caspius* (Gm.) donati al Museo zool. di Roma da V. Campanari. Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (100-103).

Fassbender, Jean. Mein Mönchsittig. Geflügelzüchter, Leipzig, **11**, 1906, (386-387).

Fath, Edward A. *vide* Stebbins, J.

Fatio, V. 1. Sur le Waldrapp "*Corvus sylvaticus*" de Gesner. *Ibis*, London, **1906**, (139-144).

Fatio, V. 2. On some species of Swiss birds. *Ibis*, London, **1906**, (217-220).

Fatio V. Obituary. *vide* *Ibis*, London, **1906**, (608-610).

[**Faussek, V.**] Фаусекъ, В. Биологическія изслѣдованія въ Закаспійской Области. [Biologische Untersuchungen in Transkaspien.] St. Petersburg, Zap. Russ. Geogr. Obsč., **27**, 2, 1906. (1 + 1-192 + 1 mit 64 Abb. i. T. u. 4 Taf.).

Favette, J. et Trouessart, E. Monographie du genre *Protolichus* et revision des Sarcoptides plumicoles (*Analgesinae*) qui vivent sur les Perroquets. Paris, Mém. soc. zool., **17**, 1905, (120-166, av. pl.).

Fayrer, F. D. S. *vide* Dewar, D.

Ferret, P. et Weber, A. Une monstruosité rare chez des embryons d'Oiseau (l'ourentérie). C.-R. ass. anat., 6^e session, (Toulouse), Nancy, **1904**, (38-41).

Feustel, Karl. Seltene Vögel in der Umgegend von Gera. Gera, Jahresber. Ges. Natw., **46-48**, (1903-1905), 1906, (169).

Filmer, H. R. Aviculture and science. *Avicult. Mag.*, Brighton, 2, **4**, 1906, (213-216).

Finley, William L[ovell]. 1. Heron at home. Condor, Santa Clara, Cal., **8**, 1906, (35-40, pl.).

Finley, W. L. 2. The barn owl and its economic value. Condor, Santa Clara, Cal., **8**, 1906, (83-88, pl.).

Finley, W. L. 3. Life history of the californian condor. Part 1. Finding a condor's nest. Condor, Santa Clara, Cal., **8**, 1906, (135-142, pl.).

Finley, W. L. 4. The chickadee at home. Condor, Santa Clara, Cal., **8**, 1906, (63-67, pl.).

Finley, W. L. 5. The golden eagle. Condor, Santa Clara, Cal., **8**, 1906, (5-11, pl.).

Finn, F. 1. Garden and aviary birds of India. London, 1906, (xii + 201, 6 pls.). 8vo.

Finn, F. 2. Aviaries *versus* cages. Avicult. Mag., Brighton, **2**, **4**, 1906, (151-153).

Finn, F. 3. Eclipse plumage and flightlessness. Avicult. Mag., Brighton, **24**, 1906, (259-263).

Finsch, O. 1. On a new species of owl from Western Java. London, Bull. Brit. Ornith. Cl., **16**, 1906, (63).

Finsch, O. 2. List of known Javan Owls. Ibis, London, **1906**, (404-407).

Finsch, O. 3. On a new Owl from Java. Ibis, London, **1906**, (402-404, pl. xvii).

Finsch, O. 4. Zur Erforschungsgeschichte der ornith. Javas. J. Ornith., Leipzig, **54**, 1906, (301-321).

Fischer, Anton. 1. Oologisches vom Lech. Zs. Oologie, Berlin, **16**, 1906, (18-20, 60).

Fischer, A. 2. Ueber die Brutkolonien der Lachseeschwalben am Lech. Zs. Oologie, Berlin, **16**, 1906, (97-98).

Fischer-Sigwart, H. 1. Das Storch-nest auf dem Chordach in Zofingen (Kt. Aargau) im elften Jahre (1905). Zool. Beob., Frankfurt a. M., **47**, 1906, (105-110).

Fischer-Sigwart, H. 2. Die Lachmöve in der Schweiz (*Larus ridibundus* L. 1766). Zool. Beob., Frankfurt a. M., **47**, 1906, (202-212, 229-238).

Fisher, Walter K[enrick]. An acorn store-house of the California woodpecker. Condor, Santa Clara, Cal., **8**, 1906, (107, pl.).

Fleming, James H. 1. An arctic record for the American white pelican. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (218).

Fleming, J. H. 2. Chuck-will's-widow and Mocking-bird in Ontario. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (343-344).

Fleming, J. H. 3. Birds of Toronto, Ontario. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (437-453).

Fletcher, J. A. Swallows and Robins. Emu, Melbourne, **6**, 1906, (18-19).

[Fletcher, Price. Obituary notice. Emu, Melbourne, **5**, 1906, (226-230).]

Floericke, Kurt. Deutsches Vogelbuch. Lief. 1-5. Stuttgart (Kosmos) [1906], (1-152).

Flower, S. S. What is the "Ben-galee"? Avicult. Mag., Brighton, **2**, **5**, 1906, (60-64).

Foerster, F. and Rothschild, W. Two new Birds of Paradise. Tring, 1906, (1-3). 8vo.

Ford, F. B. C. Longreach (Queensland) notes. Emu, Melbourne, **5**, 1906, (158).

Forel, A[ugust]. Zur Aesthetik als sexuelles (!) Zuchtwahlmoment. Zool. Jahrb., Jena, Abt. f. Syst., **23**, 1906, (319-320).

Forgó, György. Az alibunári nádasok madárbirodalma. [Das Vogelreich der Alibunarer Röhrichte.] Délmagy. Term. Fü., Temesvár, **30**, 1906, (217-224).

Forrest, H. E. Birds of Shropshire. Shrewsbury, Rec. (or Trans.) Caradoc F. Cl., **16**, 1906, (23-29).

Foster, N. H. On the nesting of the Tree-Sparrow in Co. Derry. Irish Nat., Dublin, **15**, 1906, (221-223).

Fowler, Henry W[illiam]. Birds observed in the Florida Keys. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (396-400).

Fowler, W. Warde. 1. Two days with the birds of the Somme. Zoologist, London, **10**, 1906, (266-270).

Fowler, W. W. 2. *Acrocephalus palustris*. A breeding record of fourteen years. Zoologist, London, **10**, 1906, (401-409).

François-Franck, Ch. A. 1. Etude de mécanique respiratoire comparée. Analyse graphique des mouvements du sternum, des côtes et de l'abdomen chez les Oiseaux (3^e Note). Paris, C.-R. soc. biol., **61**, 1906, (370-372).

François-Franck, [Ch. A.] 2. Études graphiques et photographiques de mécanique respiratoire comparée. Discussion de la théorie classique du fonctionnement des sacs aériens du Pigeon. Paris, C.-R. soc. biol., **61**, 1906, (174-176).

François-Franck, [Ch. A.] 3. Réponse à la Note de M. Raphaël Dubois au sujet du fonctionnement des sacs aériens des Oiseaux. Paris, C.-R. soc. biol., **61**, 1906, (609).

Frisch, Karl von. Aus dem Leben eines Sittichs. Natur und Haus, Dresden, **15**, 1906, (90-92).

Fritze, [Adolf] 1. Abnorm gefärbte einheimische Säugetiere und Vögel in der Sammlung des Provinzial-Museums zu Hannover. Hannover, Jahrb. Prov.-Mus., **1904-1905**, 1905, (20-23).

Fritze, A. 2. Bastard von Birkhuhn und Fasan. Hannover, Jahrb. Prov.-Mus., **1901-1904**, 1904, (26-28, 1 Taf.).

Frothingham, Earl H. Notes on the birds of the Michigan forest reserve. Lansing, Rep. Mich. Acad. Sci., **8**, 1906, (157-161).

Fuchs, H. [Schwalbenbrut bei Berlin im December.] Wild u. Hund, Berlin, **12**, 1906, (796).

Fuhrmann, O. 1. Die Tänien der Raubvögel. Centralbl. Bakt., Jena, Abt. I, **41**, Originale, 1906, (79-89, 212-221).

Fuhrmann, O. 2. Die *Hymenolepis*-Arten der Vögel. Centralbl. Bakt., Jena, Abt. I, **41**, Originale, 1906, (352-358, 440-452); op. cit., **42**, (620-628, 730-755).

Fussell, Linnaeus and Omensetter, Sanford. List of winter birds. Media, Pa., Proc. Delaware Co. Inst. Sci., **1**, 1906, (1-2).

Gadeau de Kerville, Henri. 1. Les œufs anormaux du Musée d'Histoire (N-9720 g)

naturelle d'Elbeuf. Elbeuf, Bul. soc. étud. sci. nat., **23**, 1905, (103-105, pl.).

Gadeau de Kerville, H. 2. Sur les moyens employés par les oiseaux pour se faire comprendre de l'homme. Paris, Bul. Soc. zool., **28**, 1903, (47-57).

Gadow, H. Monotremes and birds. Nature, London, **73**, 1906, (222).

Gaetke, Heinrich. Die ornithologischen Tagebücher 1847-1887, von H. Gaetke. Hrsg. v. Rudolf Blasius. J. Ornith., Leipzig, **54**, 1906, Sonderheft, (1-163).

Gallenkamp, Wilh. 1. Die Ankunft der Rauchschnalbe im Frühjahr 1905 in Bayern. Auf Grund einer angestellten Massenbeobachtung bearb. München, Verh. ornith. Ges., **6**, (1905), 1906, (41-100, Taf.).

Gallenkamp, W. 2. Wetterlage und Vogelzug. Vortrag . . . München, Verh. ornith. Ges., **6**, (1905), 1906, (106-120, 1 Taf.).

Garrett, P. Notes on the eggs of the Solitary Sandpiper. Ottawa Nat., **20**, 1906, (52).

Geisenheyner, Ludwig. Kreuznacher Wintergäste. Zool. Beob., Frankfurt a. M., **47**, 1906, (45-48).

Gengler, Joseph. 1. *Phylloscopus bonelli* (Vieill.) in Franken. Ein Beitrag zur Verbreitung des Berglaubvogels. Zool. Beob., Frankfurt a. M., **47**, 1906, (273-275).

Gengler, J. 2. *Ciconia ciconia* (L.) als Brutvogel in Bayern. Ein Beitrag zur einstigen und jetzigen Verbreitung des Storchs in Deutschland. III. München, Verh. ornith. Ges., **6**, (1905), 1906, (133-146).

Gengler, J. 3. Beitrag zur Ornithologie von Füßen und Umgebung. Natur u. Offenb., Münster, **52**, 1906, (478-489).

Gengler, J. 4. Einige Farbenvarietäten bei Vögeln. Ornith. Monatsber., Berlin, **14**, 1906, (78-81).

Gengler, J. 5. Einige Worte über den Charakter von Bastarden. Gefied. Welt, Magdeburg, **35**, 1906, (182-183).

Gengler, J. 6. Die Vögel des Regnitztales und seiner Nebentäler von Fürth bis Bamberg, mit Einschluss von Nürnberg und Umgebung. Nürnberg (U. E. Sebald), 1906, (xv + 191, 12 Taf.). 22 cm.

Gentès, L. Recherches sur le développement des noyaux centraux du cervelet chez le Poulet. C.-R. ass. anat., 8^e session (Bordeaux), **1906**, (28-32).

Gérardini, Léon. Le Pigeon dit "Voyageur" au XX^e siècle. Paris, (Bornemann), **1905**, (107).

Geyr von Schweppenburg, H. Frh. 2. Untersuchungen über die Nahrung einiger Eulen. J. Ornith., Leipzig, **54**, **1906**, (534-557).

Geyr von Schweppenburg, H. Frh. 3. Altes und Neues von *Gallinula chloropus*. Ornith. Monatsber., Berlin, **14**, **1906**, (41-46).

(**Ghigi, Alessandro.** Revisione del genere *Guttera* Wagler. Bologna, Mem. Acc. sc., Ser. 6, **2**, **1905**, (189-197).)

Gigalski, [Bernard]. Unsere Vogelwelt im Winter. Königsberg, Schr. physik. Ges., **46** (1905), **1906**, (181-187).

Girard, P. *vide* Lapicque, L.

Gladstone, H. S. Notes on some birds seen in North Uist. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (113-114).

Goebel, H. 1. Ueber Rohrdommelgelege. Zs. Oologie, Berlin, **16**, **1906**, (1-3).

Goebel, H. 2. Sammelbericht 1906 von der Murmanküste, Zip Nawolok und Alexandrowsk. Zs. Oologie, Berlin, **16**, **1906**, (90-91).

Goebel, H. 3. Sonderbare Niststätten u. a. m. Zs. Oologie, Berlin, **16**, **1906**, (33-38, 49-51, 104-105).

Goebel, Oswald. Le nagana chez la poule. Paris, C.-R. soc. biol., **61**, **1906**, (321-323).

Goodfellow, W. Notes on Mrs. Johnstone's Lorikeet. Avicult. Mag., Brighton, **2**, **4**, **1906**, (83-87).

Gordon, S. P. Scottish Ptarmigan. Field, London, **1906**, (April 7th), (569).

Göring, Anton. Obituary *vide* Koepert, O.

Graeser, Kurt. Zum Vogelzuge. Ornith. Monatsber., Berlin, **14**, **1906**, (38-40).

Grant, W. R. Ogilvie. 1. Index to the Bulletin of the British Ornithologists' Club. Volumes 1-15, 1892-1905. London, **1906**, 8vo., (1-108). [Forms vol. **18** of the series.]

Grant, W. R. O. 2. On new species of birds from Formosa. London, Bull. Brit. Ornith. Cl., **16**, **1906**, (118-123). Cf. *op. cit.* **19**, (14).

Grant, W. R. O. 3. Occurrence of the Fire-crest at Abbey Wood, Kent. London, Bull. Brit. Ornith. Cl., **16**, **1906**, (45).

Grant, W. R. O. 4. On a new species of Tree-Partridge from the Chin Hills, Burma. London, Bull. Brit. Ornith. Cl., **16**, **1906**, (68).

Grant, W. R. O. 5. On a new species of Nuthatch from Corea. London, Bull. Brit. Ornith. Cl., **16**, **1906**, (87-88).

Grant, W. R. O. 6. On two new species of birds from Mindanao. London, Bull. Brit. Ornith. Cl., **16**, **1906**, (99-100).

Grant, W. R. O. 7. On new species from Ruwenzori. London, Bull. Brit. Ornith. Cl., **16**, **1906**, (110-118).

Grant, W. R. O. 8. On a new species of *Proparus* from the Manipur Hills. London, Bull. Brit. Ornith. Cl., **16**, **1906**, (123).

Grant, W. R. O. 9. On new species of birds from Pahang, Malay Peninsula. London, Bull. Brit. Ornith. Cl., **19**, **1906**, (9-12).

Grant, W. R. O. 10. On new species of birds from Annam. London, Bull. Brit. Ornith. Cl., **19**, **1906**, (12-14).

Grant, W. R. O. 11. A new species of Chat-Thrush from Somali Land. London, Bull. Brit. Ornith. Cl., **19**, **1906**, (24).

Grant, W. R. O. 12. On new species from Equatorial Africa. London, Bull. Brit. Ornith. Cl., **19**, **1906**, (24-26).

Grant, W. R. O. 13. On a new species of *Chloropeta*. London, Bull. Brit. Ornith. Cl., **19**, **1906**, (32).

Grant, W. R. O. 14. On new species of birds from the Ruwenzori range. London, Bull. Brit. Ornith. Cl., **19**, **1906**, (32-33).

Grant, W. R. O. 15. On the birds collected by Mr. Walter Goodfellow on the volcano of Apo and its vicinity; in South-east Mindanao, Philippine Islands. Ibis, London, **1906**, (465, pls. xviii, xix).

Grant, W. R. O. 16. On an unnamed species of owl from South Africa. *Ibis*, London, **1906**, (660).

Green, J. F. Birds of "The Cedars," Lee. Blackheath, Trans. West Kent Nat. Hist. Soc., **1903-1904**, (12-31).

Greene, W. T. Aviaries versus cages. *Avicult. Mag.*, Brighton, **2**, **4**, 1906, (150-151).

Gregory, [Mrs]. Some garden pets. *Avicult. Mag.*, Brighton, **2**, **4**, 1906, (263-265, cum tab.).

Grieg, James A. 1. Aarhøne med overtallige tær. [Heath-hen with supernumerary toes.] *Kristiania, Norsk. Jægerf. Tidssk.*, **35**, 1906, (22-23).

Grieg, J. A. 2. Gjør erfuglen skade paa fiskebestanden? [Do eider ducks damage the fish supply.] *Bergen, Norsk Fisket.*, **25**, 1906, (179-182).

Grinnell, Elizabeth. A large phoebe's nest. *Bird Lore*, Harrisburg, Pa., **6**, 1904, (68).

Grinnell, J[oseph]. 1. Foolish introduction of foreign birds. *Condor*, Santa Clara, Cal., **8**, 1906, (57).

Grinnell, J. 2. The oberholser vireo. *Condor*, Santa Clara, Cal., **8**, 1906, (148-149).

Grinnell, J. 3. Pacific kittiwake in Southern California. *Condor*, Santa Clara, Cal., **8**, 1906, (57).

Grinnell, J. 4. The wood duck in Southern California. *Condor*, Santa Clara, Cal., **8**, 1906, (29).

Grinnell, J. 5. The *Empidonax* from Santa Catalina island. *Condor*, Santa Clara, Cal., **8**, 1906, (74).

Grinnell, J. 6. The Catalina island quail. *Auk*, Cambridge, Mass., N. Ser., **23**, 1906, (262-265).

Grinnell, J. 7. Questionable records. *Auk*, Cambridge, Mass., N. Ser., **23**, 1906, (229-231).

Grinnell, J. 8. The status of the "San Francisco titmouse." *Auk*, Cambridge, Mass., N. Ser., **23**, 1906, (186-188).

Grote, Georg August. *Alcedo ispida*. *Zs. Oologie*, Berlin, **16**, 1906, (57-59).

Grynfeldt, Ed. 1. Recherches sur l'épithélium postérieur de l'iris chez quelques Oiseaux. Discussion: Waldeyer, Marceau, Renaut. *C.-R. ass. anat.*,

7^e session (Genève), **1905**, Nancy, 1906, (37-45).

Grynfeldt, E. 2. Sur la structure des fibres du sphincter de l'iris chez les Oiseaux. Paris, *Bull. ass. franç. avanc. sci.*, **1905**, (340-341).

Günther, Adolf. 1. Aus dem Seelenleben der Vögel. Gefied. Welt, Magdeburg, **35**, 1906, (340-341, 348-349, 355-356, 361-365).

Günther, Albert C. L. G. 2. On the breeding in captivity of the Red-backed Shrike. *Avicult. Mag.*, Brighton, **2**, **5**, 1906, (40).

Guenther, Konrad. Erhaltet unserer Heimat die Vogelwelt! Freiburg i. B. (F. E. Fehsenfeld), [1906], (96). 23 cm. 0,50 M.

Gurney, J. H. 1. Breeding of the Jackal Buzzard (*Buteo jackal*). *Avicult. Mag.*, Brighton, **2**, **5**, 1906, (57).

Gurney, J. H. 2. Ornithological report for Norfolk (1905). *Zoologist*, London, **10**, 1906, (121-138, pl. 2).

Gyngell, W. Late Martin's nest. *Zoologist*, London, **10**, 1906, (28-29).

Haagner, A. K. 1. A further contribution to the Ornithology of Modderfontein, Transvaal. Pretoria, J. S. Afric. Ornith. Union, **1**, 1906, (48-56).

Haagner, A. 2. On rare eggs from South Africa. London, *Bull. Brit. Ornith. Cl.*, **19**, 1906, (22-23).

Haagner, A. 3. Description of a hybrid between the Cape Canary (*Serinus canicollis*) and the Mountain Canary or Alario Finch (*Alario alario*). *Avicult. Mag.*, Brighton, **2**, **4**, 1906, (134).

Haase, O. Ein Besuch zweier Vogel-Freistätten in Dänemark. *Ornith. Monatsber.*, Berlin, **14**, 1906, (17-27).

Hachet-Souplet. Expérience sur un Perroquet. Observations de MM. Giard, Perrier. *Bul. Inst. psych. internat.*, Paris, **4**, 1904, (255-258).

Hagen, W. Eigenartiger Schwalbenzug in der Umgebung von Lübeck. *Ornith. Monatsber.*, Berlin, **14**, 1906, (No. 10: 151-153).

Hagendefeldt, Meinert B. 1. Die Brandente oder Brandgans auf Sylt. *Tadorna tadorna* L.—*Anas tadorna* Naum.—*Tadorna damiatica* Rehw. *Zs. Ornith. Stettin*, **30**, 1906, (121-125).

Hagendefeldt, M. B. 2. Die Eiderente (*Somateria mollissima* L.). Zs. Ornith., Stettin, **30**, 1906, (161-164).

Hagmann, Gottfried. Ornithologisches von der Insel Mexiana, Amazonasstrom. Ornith. Monatsber., Berlin, **14**, 1906, (105-111).

Haldane, R. C. Supposed breeding of the Jack Snipe in Sletland. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (239).

Hale, J. R. On the nesting of the Merlin in a tree. London, Bull. Brit. Ornith. Cl., **19**, 1906, (21).

Hales, Henry. An unusual nest of the cliff swallow. Bird Lore, Harrisburg, Pa., **6**, 1904, (67).

Hall, F. H. Some western Adirondack birds. Wilson Bull., Oberlin, Ohio, **18**, N. Ser., **13**, 1906, (120-127).

Hall, R. A key to the birds of Australia, with their geographical distribution. Second edition. Melbourne and London, 1906, (xii + 124). Svo.

Hantzsch, Bernhard. 1. *Corvus corax islandicus* subsp. n. Ornith. Monatsber., Berlin, **14**, 1906, (130-131).

Hantzsch, B. 2. Über das Wiegen der Vögel im Fleische. Ornith. Monatsber., Berlin, **14**, 1906, (128-130).

Harke und Stahl. Die den Jagden in Schlesien schädlichen Vögel. Inwieweit genießen dieselben zum Nachteil der Jagd gesetzlichen Schutz? Jahrb. schles. Forstver., Breslau, **1905**, 1906, (69-91).

Hartert, Ernst J. O. 1. On a new subspecies of Gold-crest from Corsica and Sardinia. London, Bull. Brit. Ornith. Cl., **16**, 1906, (45-46).

Hartert, E. J. O. 2. *Dioptrornis brunnea* (Cab.) in Northern Angola. London, Bull. Brit. Ornith. Cl., **16**, 1906, (46).

Hartert, E. J. O. 3. On a new species of *Calamocichla* from N. Angola. London, Bull. Brit. Ornith. Cl., **16**, 1906, (52-53).

Hartert, E. J. O. 4. On a new species of *Zosterops* from Amboina. London, Bull. Brit. Ornith. Cl., **16**, 1906, (81-82).

Hartert, E. J. O. 5. On a new Cormorant from Morocco. London, Bull. Brit. Ornith. Cl., **16**, 1906, (110-111).

Hartert, E. J. O. 6. On the correct name of the Pied Flycatcher. Ibis, London, **1906**, (571-573).

Hartert, E. J. O. 7. Berichtigung. Ornith. Monatsber., Berlin, **14**, 1906, (81-82).

Hartert, E. J. O. 8. On the birds of the island of Babber. Nov. Zool., Tring, **13**, 1906, (288-302).

Hartert, E. J. O. 9. On the birds of Luang. Nov. Zool., Tring, **13**, 1906, (302-304).

Hartert, E. J. O. 10. Miscellanea ornithologica. Critical, nomenclatorial, and other notes, mostly on Palearctic birds and their allies. Nov. Zool., Tring, **13**, 1906, (386-405).

Hartert, E. J. O. 11. Additional notes on birds from N.W. Australia. Nov. Zool., Tring, **13**, 1906, (754-755, pl. i).

Hartert, E. J. O. 12. Notes on birds from the Philippine Islands. Nov. Zool., Tring, **13**, 1906, (755-758, pl. ii).

Hartert, E. J. O. 13. On the criticism of Heft 3 of "Die Vögel der paläarktischen Fauna." Auk, Cambridge, Mass., N. Ser., **23**, 1906, (120-122).

Harting, J. E. Occurrence of the Baikal Teal (*Nettion formosum*) in Essex. London, Bull. Brit. Ornith. Cl., **16**, 1906, (80-81).

Harvie-Brown, J. A. 1. A Fauna of the Tay Basin and Strathmore. Edinburgh, 1906, (lxxxvi + 377). Svo. Aves (59-354, Appendix A. 361-363).

Harvie-Brown, J. A. 2. On *Larus kumlieni* from Cumberland Inlet. Ibis, London, **1906**, (388-389).

Harvie-Brown, J. A. 3. Identification of Wild Ducks' Downs. Zoologist, London, **10**, 1906, (370-374).

Hathaway, Harry S. The Water-Thrush (*Seiurus noveboracensis*) nesting in Rhode Island. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (463-464).

Head, Anna. 1. Observations on the notes and ways of two western vireos. Condor, Santa Clara, Cal., **8**, 1906, (149-150).

Head, A. 2. The note of the golden-crowned sparrow. Condor, Santa Clara, Cal., **8**, 1906, (130, with illustr.).

Headley, F. W. Life and Evolution. London, 1906, (xvi + 272). Svo.

Hecht, E. 1. Les Cigognes en Lorraine en 1902 et 1903. Paris, Bul. soc. zool., **28**, 1903, (159-164).

Hecht, E. 2. La diminution des Cigognes en Lorraine en 1904. Paris, Bull. soc. zool., **29**, 1904, (164-167).

Hegyfoky, J. Die Frühlingsankunft der Vögel und die Witterung in Ungarn im Zeitraume 1894-1903. Met. Zs., Braunschweig, **23**, 1906, (419-421).

Hegyfoky, Kabos. 1. A levegő hőmérséklete Magyarországon 32 madárfaj megérkezése idején. [Die Lufttemperatur in Ungarn zur Zeit der Ankunft von 32 Vogelarten.] Aquila, Budapest, **13**, 1906, (1-8).

Hegyfoky, K. 2. Az 1904. évi tavaszi madárvonulás és az időjárása. [Der Vogelzug und die Witterung im Frühling des Jahres 1904.] Aquila, Budapest, **13**, 1906, (67-82).

Hegyfoky, K. 3. Az 1905. évi tavaszi madárvonulás és az időjárása. [Der Vogelzug und die Witterung im Frühling des Jahres 1905.] Aquila, Budapest, **13**, 1906, (142-147).

Heindl, P. Emmeram. Ornithologische Beobachtungen zu Andechs in den Jahren 1904 und 1905. Natur u. Offenb., Münster, **52**, 1906, (618-628, 681-691).

Heinrich, Paul. Ornithologische Beobachtungen bei Dobritz i. S. Gefied. Welt, Magdeburg, **35**, 1906, (119, 135).

Heinroth, O. 1. Beobachtungen über die Schnelligkeit des Federwachstums. Ornith. Monatsber., Berlin, **14**, 1906, (111-115).

Heinroth, [O.] 2. [Grüne Färbung von Kanarienvogeln.] J. Ornith., Leipzig, **54**, 1906, (152-153).

Heinroth, O. 3. Beobachtungen an Entenmischlingen. (Vorl. Mitt.) Berlin, Sitzber. Ges. natf. Freunde, **1906**, (3-4).

Held, O. *Oceanodroma leucorhoa* (Vieill.) in Mecklenburg. Ornith. Monatschr., Gera, **31**, 1906, (180-182).

Hellmayr, C. E. 1. A revision of the species of the genus *Pipra*. London, Ibis, **1906**, (1-46, pl. vi).

Hellmayr, C. E. 2. Revision der Spix'schen Typen brasilianischer Vögel. München, Abh. Ak. Wiss., math.-phys. Kl., **22**, 1906, (561-726).

Hellmayr, C. E. 3. [Jahresbericht über] Aves für 1893. Arch. Natg.,

Berlin, **66**, Bd 2, H. 1, 1900, [1906], (67-182).

Hellmayr, C. E. 4. On a new subspecies of *Thamnomanes* from Para. London, Bull. Brit. Ornith. Cl., **16**, 1906, (53-54).

Hellmayr, C. E. 5. On *Hypocnemis pacilonota* and its allies. London, Bull. Brit. Ornith. Cl., **16**, 1906, (54).

Hellmayr, C. E. 6. On some new species of South American Birds. London, Bull. Brit. Ornith. Cl., **16**, 1906, (82-86).

Hellmayr, C. E. 7. On a new subspecies of *Hypocnemis*. London, Bull. Brit. Ornith. Cl., **16**, 1906, (109-110).

Hellmayr, C. E. 8. On new species of South American birds. London, Bull. Brit. Ornith. Cl., **19**, 1906, (8-9).

Hellmayr, C. E. 9. On a new species of Bunting from Chiriqui. London, Bull. Brit. Ornith. Cl., **19**, 1906, (28-29).

Hellmayr, C. E. 10. On *Leucuria phalerata* Bangs. London, Bull. Brit. Ornith. Cl., **19**, 1906, (29).

Hellmayr, C. E. 11. On the habitat of *Coccycolius iris*. London, Bull. Brit. Ornith. Cl., **19**, 1906, (29).

Hellmayr, C. E. 12. On the birds of the island of Trinidad. Nov. Zool., Tring, **13**, 1906, (1-60).

Hellmayr, C. E. 13. ii. List of the species occurring on the islands of Monos and Chacachacare, but not found on Trinidad. Nov. Zool., Tring, **13**, 1906, (55-56). iii. Hypothetical list, (56-60).

Hellmayr, C. E. 14. Critical notes on the types of little-known species of Neotropical birds. Nov. Zool., Tring, **13**, 1906, (305-352).

Hellmayr, C. E. 15. Notes on a second collection of birds from the district of Pará, Brazil. Nov. Zool., Tring, **13**, 1906, (353-385).

Hellmayr, C. E. 16. Emile Oustalet, Nachruf. Ornith. Monatsber., Berlin, **14**, 1906, (57-59).

Hellmayr, C. E. vide Ménégaux, A.

Hémery. Note sur quelques cas d'albinisme constatés chez le Merle noir, *Turdus merula* Linn. Nantes,

Bul. soc. sci. nat., sér. 2, **6**, 1906, (vii-viii).

Henderson, Junius. With the birds in north-eastern Colorado. Wilson Bull., Oberlin, Ohio, **18**, N. Ser., **13**, 1906, (105-110).

Henderson, J. I. Uncommon birds in Lochbroom. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (114-115).

Hennemann, W. 1. Ornithologische Beobachtungen im Sauerlande im Jahre 1904. Ornith. Monatschr., Gera, **31**, 1906, (224-234).

Hennemann, W. 2. Ornithologisches von Borkum 1905. Ornith. Monatschr., Gera, **31**, 1906, (302-306).

Hennemann, W. 3. Aus dem Starenleben im Jahre 1906. Ornith. Monatschr., Gera, **31**, 1906, (545-547).

Hennemann, W. 4. Sauerländische Vogelnamen. Münster, Jahresber. ProvVer. Wiss., **34**, (1905/06), 1906, (42-44).

Hennemann, W. 5. Fremde ornithologische Mitteilungen aus dem Sauerlande aus vergangener Zeit. Münster, Jahresber. ProvVer. Wiss., **34**, (1905-06), 1906, (131-132).

Hennicke, Carl R. 1. Die Fänge der Raubvögel. [Forts.] Ornith. Monatschr., Gera, **31**, 1906, (77-78, Taf.).

Hennicke, C. R. 2. Frühzeitiges Amselgelege. [15. Jan.] Ornith. Monatschr., Gera, **31**, 1906, (124).

Hennicke, C. R. 3. Paul Leverkus. Nachruf. Ornith. Monatschr., Gera, **31**, 1906, (164-168, 1 Taf.).

Henninger, W. F. 1. A new record for the prairie warbler in Ohio. Wilson Bull., Oberlin, Ohio, **18**, N. Ser., **13**, 1906, (72).

Henninger, W. F. 2. A preliminary list of the birds of Seneca county, Ohio. Wilson Bull., Oberlin, Ohio, **18**, N. Ser., **13**, 1906, (47-60).

Herlofson, N. B. Fasaner i det trondhjemske. [Fasanen im Drontheimischen, Norwegen.] Kristiania, Norsk Jægerf. Tidssk., **35**, 1906, (233-235).

Herman, Ottó A. 1. M. O. K. ornithophaenologiai anyaga. [Ornithophenological Materials of the Hungarian Central Ornithological Bureau.] Aquila, Budapest, **13**, 1906, (xx-xxiv).

Herman, O. A. 2. „The Ibis“ és az ornithophaenologia. [„The Ibis“ and Ornithophenology.] Aquila, Budapest, **13**, 1906, (xi-xix).

Herman, O. A. 3. Alakkörök és ornithophaenologia. [Formenkreis und Ornithophaenologie.] Aquila, Budapest, **13**, 1906, (i-x).

Hermann, Rudolf. 1. Der rot-rückige Würger (*Lanius collurio* L.). Natur u. Haus, Dresden, **15**, 1906, (58-62).

Hermann, R. 2. Albinos. Gefied. Welt, Magdeburg, **35**, 1906, (292-293).

Herrick, Francis H. Red-eyed vireos awake and asleep. Bird Lore, Harrisburg, Pa., **6**, 1904, (113-116).

Heyder, R. 1. *Dryoscopus martius* (L.) und seine Zunahme im Königreich Sachsen. Ornith. Monatsber., Berlin, **14**, 1906, (167-171, 183-189).

Heyder, R. 2. Allerlei vom *Dryoscopus martius* (L.). Ornith. Rdsch., Berlin, Jg 2, 1906, (52-53).

Heyder, R. 3. Ueber Spechthöhlen. Zs. Oologie, Berlin, **16**, 1906, (51-53).

Hine, James S[tewart]. The purple gallinule in Ohio. Ohio Nat., Columbus, Ohio, **6**, 1906, (553).

Hocke, H. 1. Aus dem Leben unserer Grasmücken. Gefied. Welt, Magdeburg, **35**, 1906, (281-282, 289-290).

Hocke, H. 2. Aus dem Leben unserer Hohltaube, *Columba oenas* Linn. Natur u. Haus, Dresden, **15**, 1906, (38-40).

Hodge, C[lifton] F[remont]. Drumming of the ruffed grouse. Amer. Ornith., Worcester, Mass., **6**, 1906, (99-102).

Höpfner, Max. Seltene Vögel in der Rochlitzer Gegend. Ornith. Monatschr., Gera, **31**, 1906, (66-67).

Hollander, F. G. L. d'. Recherches sur l'oogenèse et sur la structure et la signification du noyau vitellin de Balbiani chez les Oiseaux. Arch. anat. microsc., Paris, **7**, 1904, (117-183).

Hollrung, M[ax]. Beiträge zur Bewertung der Saatkrähe auf Grund von 11jährigen Magenuntersuchungen. Landw. Jahrb., Berlin, **35**, 1906, (579-620).

Hopkins, F. H. The Bobolink in Colorado. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (461).

Hopkins, May Agnes. On the relative dimensions of the osseous semi-circular canals of birds. [Cont. Zool. Lab. Univ. Tex., No. 74.] Wood's Holl, Mass., Mar. Biol. Lab. Bull., **11**, 1906, (253-264).

Hornung, Victor. Weitere Mitteilungen über die Schwarzamsel (*Turdus merula*). Zool. Beob., Frankfurt a. M., **47**, 1906, (176-178).

Horsbrugh, B. R. Aviculture in South Africa. Avicult. Mag., Brighton, **2**, **4**, 1906, (222-226).

Houghton, C. O. The masked duck in Maryland. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (335).

Howard, O. W. The English sparrow in the south-west. Condor, Santa Clara, Cal., **8**, 1906, (67-68).

Howe, Carlton D. A tame Ruffed Grouse. Bird Lore, Harrisburg, Pa., **6**, 1904, (81-85).

Howell, Arthur H. Birds that eat the cotton boll weevil. Washington, D.C., Bull. U. S. Dept. Agric., Biol. Surv., No. **25**, 1906, (1-32).

Hudson, W. H. Aves of Royal Botanic Gardens. London, Kew Bull., London, add., Ser., **5**, pp. 2-10.

Hugues, Albert. 1. De l'adoption des œufs étrangers chez les Oiseaux. Nîmes, Bul. soc. étud. sci. nat., **31**, 1903, [1904], (44-47); **32**, 1905, (65-67).

Hugues, A. 2. Les Oiseaux sont-ils attachés au pays natal? Nîmes, Bul. soc. étud. sci. nat., **33**, 1906, (97-101).

Hunn, John T. Sharpless. Notes on birds of Silver City, New Mexico. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (418-425).

Hunt, Chreswell J. Change of location of a crow roost. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (429-431).

Hutton, F. W. Obituary, with portrait. Emu, Melbourne, **5**, 1906, (178-181).

Hutton, F. W. Obituary. Ibis, London, **1906**, (361-362).

Ingram, C. A. 1. Guacharo cave. Avicult. Mag., Brighton, **2**, **4**, 1906, (236-239).

Ingram, C. 2. The breeding of Humming birds in Trinidad. Avicult. Mag., Brighton, **2**, **4**, 1906, (311-312).

Ingram, C. 3. On new species of birds from the Northern Territory of South Australia. London, Bull. Brit. Ornith. Cl., **16**, 1906, (115-116).

Ingram, [Sir William]. The breeding of the Red Mountain Partridge Dove (*Geotrygon montana*). Avicult. Mag., Brighton, **2**, **4**, 1906, (357-358).

Iserbyt, E. H. J. Vogels. Yper, 1906, (291). Svo.

Jackson, A. Notes on the nesting of *Tringa alpina*. Zoologist, London, **10**, 1906, (21-25).

Jackson, F. J. 1. On a new species of *Callene*. London, Bull. Brit. Ornith. Cl., **16**, 1906, (46-47).

Jackson, F. J. 2. On a new species of Flycatcher from Toro. London, Bull. Brit. Ornith. Cl., **16**, 1906, (87).

Jackson, F. J. 3. On a new species of bird from Equatorial Africa. London, Bull. Brit. Ornith. Cl., **16**, 1906, (89).

Jackson, F. J. 4. On four new species from Equatorial Africa. London, Bull. Brit. Ornith. Cl., **19**, 1906, (19, 20).

Jackson, F. J. 5. On a collection of Birds made by Mr. Geoffrey Archer during a journey to the Ruwenzori Range, with notes by R. Bowdler Sharpe, Ibis, London, **1906**, (505-570).

Jenkins, Hubert O. 1. Variation in the hairy woodpecker (*Dryobates villosus* and subspecies). Auk, Cambridge, Mass., N. Ser., **23**, 1906, (161-171).

Jenkins, H. O. 2. A list of birds collected between Monterey and San Simeon in the Coast Range of California. Condor, Santa Clara, Cal., **8**, 1906, (122-130).

Johnson, Roswell H[ill]. The birds of Cheney, Washington. Condor, Santa Clara, Cal., **8**, 1906, (25-28).

Johnston [Sir Harry H]. Liberia. 2 Vols. London, 1906, (xxviii, 520 : xvi, 521-1183). Svo. Birds. Vol. **2**, (758-786).

Johnstone, E. J. The nesting of *Trichoglossus johnstoniae*. Avicult. Mag., Brighton, **2**, **5**, 1906, (44-46).

Johnstone, M. A. 1. Aviaries versus Cages. *Avicult. Mag.*, Brighton, 2, 4, 1906, (187-189).

Johnstone, M. A. 2. The Bald-headed Starling (*Sarcops calurus*). *Avicult. Mag.*, Brighton, 2, 4, 1906, (191-192).

Jones, Lynds. 1. Two birds new to Lorain county, Ohio. *Wilson Bull.*, Oberlin, Ohio, 18, N. Ser., 13, 1906, (130-131).

Jones, L. 2. Some migration records along the Cedar point sand spit, Erie county, Ohio, 1906. *Wilson Bull.*, Oberlin, Ohio, 18, N. Ser., 13, 1906, (128-130).

Jones, L. 3. A contribution to the life history of the common and roseate terns. *Wilson Bull.*, Oberlin, Ohio, 18, N. Ser., 13, 1906, (35-47, pl.).

Jones, L. 4. Two all-day records in northern Ohio. *Wilson Bull.*, Oberlin, Ohio, 18, N. Ser., 13, 1906, (68-72).

Jones, L. 5. Additional records of Ohio birds. *Ohio Nat.*, Columbus, Ohio, 4, 1904, (112-113).

Jourdain, F. C. R. 1. The eggs of European birds. Part 1. London, 1906. Svo.

Jourdain, F. C. R. 2. Birds of Derbyshire. *Victoria Hist. Derbyshire*, 1906.

Jourdain, F. C. R. 3. On hybrids between Black Game and Pheasants. London, *Bull. Brit. Ornith. Cl.*, 16, 1906, (76).

Jourdain, F. C. R. 4. Rough notes on Derbyshire ornithology, 1904-1905. *Zoologist*, London, 10, 1906, (139-142).

Jourdain, F. C. R. 5. Hybrid Black-game and Pheasant. *Zoologist*, London, 10, 1906, (433-434).

Jourdain, F. C. R. 6. On the hybrids which have occurred in Great Britain between Black-game and Pheasant. *Zoologist*, London, 10, 1906, (321-330, pl. 4).

Jourdain, F. C. R. 7. Hybrids between Black Game and Pheasants in Scotland. *Ann. Scot. Nat. Hist.*, Edinburgh, 1906, (238-239).

Joy, N. H. Mimical song of the Blackcap (*Sylvia atricapilla*). *Zoologist*, London, 10, 1906, (108-109).

Kaeding, Geo. L. New bird for Amador county. *Condor*, Santa Clara, Cal., 8, 1906, (57).

Kaestner, S[ándor]. 1. Studien an omphalocephalen Vogelembryonen. *Arch. Anat. Physiol.*, Leipzig, Anat. Abt., 1906, (344-398, 4 Taf.).

Kaestner, S. 2. Ueber Wesen und Entstehung der omphalocephalen Missbildungen bei Vogelembryonen. *Anat. Anz.*, Jena, 29, 1906, (82-90).

[Kaïdalov, D.] Каїдаловъ, Д. Утки озера Неро, Ростовскаго уѣзда, Ярославской губерніи. [Die Enten des Nero-Sees, Gouv. Jaroslavl.] *Psov. i ružejn. ochota*, Moskva, 12, 1906, (318-320).

Kaiser, Josef. Einiges aus dem Vogelleben des Fichtelgebirges. *Gefied. Welt*, Magdeburg, 35, 1906, (342-343, 349-351).

Kallius, E[rich]. Beiträge zur Entwicklung der Zunge. *TI 2. Vögel.* 3. *Melopsittacus undulatus*. *Anat. Hefte*, Wiesbaden, Abt. 1, 31, 1906, (603-651, with Taf.).

Kamon, K. Zur Entwicklungsgeschichte des Gehirns des Hühnchens. *Anat. Hefte*, Wiesbaden, Abt. 1, 30, 1906, (559-650, 4 [2] Taf.).

[Kapell'kin, V.] Капелькинъ, В. Къ вопросу о покровительственной окраскѣ. [Ein Beitrag zur Frage über die Schutzfärbung.] *Psov. i ružejn. ochota*, Moskva, 11, 1905, (470-471). 4to.

Kearton frères. L'art de surprendre et de photographier les Oiseaux et les Insectes. Paris (Dumoulin), 1906, (268). 22 em. 5, 8 fr.

Kells, W. L. Nesting of Wilson's Snipe. *Ottawa, Nat.*, 20, 1906, (53-55).

Kerr, G. W. The birds of the district of Staines. *Zoologist*, London, 10, 1906, (179-184, 230-234, 307-310, 386-389).

Killermann, [Seb.] 1. Können die Tiere, insbesondere die Vögel, zählen? *Natw. Wochenschr.*, Jena, 21, 1906, (373-377).

Killermann, [Seb.] 2. Amsel und Singdrossel in den Städten. *Natw. Wochenschr.*, Jena, 21, 1906, (321-325).

Kitson, A. E. Notes on the Victoria lyre bird (*Menura victorica*). [Reprinted by permission, with the author's corrections, from the Emu, 1905.] Washington, D.C., Smithsonian Inst., Rep., **1905**, 1906, (363-374, pl.).

[**Kittlitz**, *Freiherr* F. H. von.] Ungedruckte Tagebücher des Frhr. F. H. von Kittlitz aus den Jahren 1817-24. Textlich wiedergegeben und mit erläuternden Zusätzen versehen v. Jakob Moyat und Wilhelm Schuster. J. Ornith., Leipzig, **54**, 1906, (359-383, 481-497).

Klein, Jac[ob] Th[eodor]. Aviarium prussicum, hrsg. u. erläutert v. M[ax] Braum. Zool. Ann., Würzburg, **2**, 1906, (77-134, 4 Taf.).

Kleinschmidt, O. 1. Beiträge zur Vogelfauna Nordostafrikas mit besonderer Berücksichtigung der Zoogeographie. Bearbeitung der von Carlo Freiherr von Erlanger auf seiner letzten Forschungsreise gesammelten Arten der Gattung „*Corvus*“. J. Ornith., Leipzig, **54**, 1906, (78-99, Taf. i-iv).

Kleinschmidt, O. 2. Ueber *Pratincola maura* und *Pratincola hemprichi*. J. Ornith., Leipzig, **54**, 1906, (526-527).

[**Klemenz**, V. A.] 1. Клеменцъ, В. А. Воспитаніе и содержаніе птицъ въ неволѣ. [Das Aufziehen und Halten von Vögeln in der Gefangenschaft.] Psov. i ružejn. ochota, Moskva, **12**, 1906, (146-147, 162-163).

[**Klemenz**, V. A.] 2. Клеменцъ, В. А. Истребъ тетеревиныи. [Der Hühnerhabicht (*Astur palumbarius*).] Psov. i ružejn. ochota, Moskva, **12**, 1906, (200-212, 226-228, 242-244).

[**Klemenz**, V. A.] 3. Клеменцъ, В. А. Воспитаніе и содержаніе пѣвчихъ птицъ въ неволѣ. Скворецъ. *Sturnus vulgaris*. [Ueber das Aufziehen und Halten von Singvögeln in der Gefangenschaft. Der Staar. *Sturnus vulgaris*.] Psov. i ružejn. ochota, Moskva, **12**, 1906, (540-542).

Klugh, N. B. 1. A third record for the prairie warbler in Canada. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (105).

Klugh, N. B. 2. The Carolina wren, a summer resident of Ontario. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (105).

Knauer, Friedrich. Zur Amselfrage. Umschau, Frankfurt a. M., **10**, 1906, (966-969).

Knight, Ora W. 1. Contributions to the life history of the Nashville warbler. *Helminthophila rubricapilla* (Wils.). J. Maine Ornith. Soc., Portland, **8**, 1906, (8-11).

Knight, O. W. 2. Contributions to the life history of the black-throated blue warbler. *Dendroica caerulescens* (Gmel.). J. Maine Ornith. Soc., Portland, **8**, 1906, (33-34).

Knights, J. E. Crane (*Grus communis*) near Great Yarmouth. Zoologist, London, **10**, 1906, (194).

Knotek. Abnorm gefärbter Rebhahn. Wild und Hund, Berlin, **12**, 1906, (186).

Koch, Rudolf. Rackelwild in Westfalen. Münster, Jahresber. Prov. Ver. Wiss., **34**, (1905-06), 1906, (132).

Koepert, O. Anton Göring†. Nachruf. Ornith. Monatschr., Gera, **31**, 1906, (168-171, 1 Taf.).

Köhn, Peter C. Vom Vogelzug auf Helgoland im Monat März. Gefied. Welt, Magdeburg, **35**, 1906, (151).

Koenigswald, Gustav von. Ornithologia Paulista. J. Ornith., Leipzig, **54**, 1906, (144-145).

König-Warthaussen, R. Baron. Ornithologisches . . . [Zahl der Staarenbruten.] Ornith. Monatschr., Gera, **31**, 1906, (510).

Kollibay, Paul. 1. Die Vögel der preussischen Provinz Schlesien. Breslau (W. G. Korn), 1906, (370, 1 Taf.).

Kollibay, P. 2. Einige bemerkenswerte Vorkommnisse in Preussisch-Schlesien. Ornith. Monatsber., Berlin, **14**, 1906, (1-4).

Kollibay, P. 3. *Otis tetrax* L. und *Nycticorax nycticorax* (L.). [Berichtigung zu: Kollibay, Einige bemerkenswerte Vorkommnisse in Preuss.-Schlesien.] Ornith. Monatsber., Berlin, **14**, 1906, (97).

Kopman, H. *vide* Beyer, G. E.

Koreiev, B. P. *vide* Zarudny, N. A.

Koske, F. Ornithologischer Jahresbericht über Pommern für 1905. Zs. Ornith., Stettin, **30**, 1906, [Beilagen u. Haupttext], (1-4, 77-78, 97-102, 110-118, 128-134, 177-184, 201-208).

Kothe, K. *Dryocopus martius reichenowi* subsp. n. Ornith. Monatsber., Berlin, **14**, 1906, (95).

Krause, Georg. Oologia universalis palaearectica. Lfg. 1. Stuttgart, [1906], (4 Taf. mit je 2 S. Text in engl. u. deutscher Spr.).

Krettek. Sind Bastarde fortpflanzungsfähig? Gefied. Welt, Magdeburg, **35**, 1906, (334).

Künstler, J. Le mécanisme des pontes anormales. Bordeaux, Mém. soc. sci. phys. nat., sér. 6, **3**, 1903, (65-72).

Künstler, J. et Chaine, J. 1. La Bernache à cou roux (*Bernicla ruficollis* Pall) dans le sud-ouest de la France. Bordeaux, Pr.-verb. soc. sci. phys. nat., **1906**, (19-21).

Künstler, J. et Chaine, J. 2. La Brante roussâtre (*Branta rufina* Boie) dans le Gironde. Bordeaux, Pr.-verb. soc. sci. Phys. nat., **1906**, (21-26).

Küster, Ernst. Die Innervation und Entwicklung der Tastfeder. Morph. Jahrb., Leipzig, **34**, 1905, (126-148, 4 Taf.).

Kullmann, K. Vom Blaukehlchen. Gefied. Welt, Magdeburg, **35**, 1906, (183) -- Bemerkung dazu v. Josef Wagner. l.c. (200).

Lampe, Ed[ward]. Katalog der Vogelsammlung des naturhistorischen Museums zu Wiesbaden. N. 3: Gallinae, Hemipodii, Fulicariae et Alektorides. Wiesbaden, Jahrb. Ver. Natk., **59**, 106, (213-248).

Lapicque, L. et Girard, P. Poids des diverses parties de l'encéphale chez les Oiseaux. Paris, C.-R. soc. biol., **61**, 1906, (30-33).

La Touche, J. D. Field-notes on the birds of Chinkiang, Lower Yangtze Basin. Ibis, London, **1906**, Part I, (427-450); Part II. (617-641).

Leege, O. 1. *Saxicola ananthe leucorrhoea* auf den ostfriesischen Inseln. Ornith. Monatsber., Berlin, **14**, 1906, (4-5). Bemerkung dazu v. C. Parrot, T.c. (62).

Leege, O. 2. Bericht über das Brutgeschäft der Vögel auf den ostfriesischen Inseln für 1904-05. Ornith.

Monatschr., Gera, **31**, 1906, (277-289, 396-113).

Leege, O. 3. Nachtrag zu den „Vögeln der ostfriesischen Inseln.“ Ornith. Monatschr., Gera, **31**, 1906, (146-148).

Leisewitz, W[ilhelm]. Untersuchungen über die Nahrung einiger land- und forstwirtschaftlich wichtigen Vogelarten. [Tag- u. Nachtraubvögel.] München, Verh. ornith. Ges., **6**, (1905), 1906, (194-203).

Lemmon, Isabella McC. A blue jay household. Bird Lore, Harrisburg, Pa., **6**, 1904, (89-90).

Leone, De, Nicola. Sopra la cattura di tre individui di *Merops persicus* Pallas nell' Abruzzo ultra primo. Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (180-183).

Lesmüller, August. Ueber die Mechanik des Vogelkörpers. München, Verh. ornith. Ges., **6**, (1905), 1906, (147-149).

Le Souef, A. S. Nest of *Menura superba* (Lyre Bird). Emu, Melbourne, **6**, 1906, (68-69, pl. ix).

Letacq, A. L. 1. Sur les Mammifères, les Oiseaux et les Poissons disparus ou en voie de disparition de la faune de l'Orne. Caen, Bul. Soc. linn., **5**, **9**, 1906, (52-73).

Letacq. 2. Le grand Corbeau (*Corvus corax*) dans la forêt de Perseigne (Sarthe). Mans (le), Bul. soc. agricult., sci., **40**, 1905, (200-204).

[Levčuk, V.] Левчукъ, В. Замѣтки изъ поѣздки на островъ Челекенъ въ 1902 г. [Notizen von einer Reise auf die Insel Čeleken.] Mater. faun. flor. Ross., Moskva, Zool., **7**, 1906, (302-324).

Leverkülm, Paul. Obituary. Ibis, London, **1906**, (364-366).] Ornist. Monatsber., Berlin. xiv (17).

Lewek, [Th.]. Die Zucht der Rotkopfamandine — *Amadina erythrocephala*. Gefied. Welt, Magdeburg, **35**, 1906, (220-221).

Lewis, Evans. The nesting habits of the white-tailed ptarmigan in Colorado. Bird Lore, Harrisburg, Pa., **6**, 1904, (117-121).

Lewis, S. 1. Bittern (*Botaurus stellaris*) in Somerset. Zoologist, London, **10**, 1906, (314-315).

Lewis, S. 2. Unusual clutches of eggs. Zoologist, London, **10**, 1906, (315-316).

Lewis, S. 3. Late stay of the Swift, and notes on the species. Zoologist, London, **10**, 1906, (30-31).

Lewis, S. 4. Cuckoos' eggs in Finches' nests. Zoologist, London, **10**, 1906, (33-34).

Lie-Pettersen, O. J. Ederfüglén (*Somateria mollissima*). [Der Eider-vogel.] Bergen, Naturen, **30**, 1906, (161-172).

Lindner, Adolf. Meine ornithologischen Beobachtungen im Jahre 1905. [Breslau.] Gefied. Welt, Magdeburg, **35**, 1906, (162-164, 170-172).

Lindner, C. Ein Beitrag zur Biologie des Steinsperlings (*Petronia petronia* L.). Ornith. Monatschr., Gera, **31**, 1906, (46-65, 105-121, 1 Taf.); Bemerkung dazu v. O[tto] Taschenberg, T.e. (186-188); v. Ad. Brückner, (188).

Lindner, Fr[iedrich]. 1. Ornithologisches Vademekum. Taschenkalender und Notizbuch für ornithologische Exkursionen. 2. verm. u. verb. Ausgabe. Neudamm (J. Neumann), 1906, (iv + 286, einschl. 200 weisse Bl.). 17 cm. Kart. 2 M.

Linder, F. 2. Der diesjährige Frühjahrsschnepfenzug im Fallstein. D. Jägerztg, Neudamm, **47**, 1906, (362-364).

Link, J. A. Der europäische Kuckuck. (Forts.) [VII-XII.] München, Verh. ornith. Ges., **6**, (1905), 1906, (150-193).

Lister, G. Fire-crested Wren (*Regulus ignicapillus*) in Dorset. Zoologist, London, **10**, 1906, (149).

Livini, Ferdinando. 1. Intorno ad alcune formazioni accessorie della volta del proencefalo in embrioni di Uccelli (*Columba livia dom.* e *Gallus dom.*). Anat. Anz., Jena, **28**, 1906, (241-255).

Livini, F. 2. Formazioni della volta del proencefalo in alcuni uccelli. Archivio ital. Anat. Embriol., Firenze, **5**, 1906, (377-417, 7 tav.).

Loat, W. L. S. On a small collection of Birds from the vicinity of Lake Menzalah, in the Delta of Egypt. Ibis, London, **1906**, (113-124).

Looy, William A. The fifth and sixth aortic arches in chick embryos with comments on the condition of the same vessels in other vertebrates. Anat. Anz., Jena, **29**, 1906, (287-300).

Lodge, R. B. 1. Exhibition of photographs of the nesting of Dalmatian Pelicans. London, Bull. Brit. Ornith. Cl., **19**, 1906, (23).

Lodge, R. B. 2. How does the Osprey carry its prey? Zoologist, London, **10**, 1906, (35).

Lodge, R. B. 3. Pelicans as observed in Eastern Europe. Zoologist, London, **10**, 1906, (361-369, pl. 5).

Lodge, R. B. 4. The Great White Heron (*Ardea alba*). Zoologist, London, **10**, 1906, (441-444, pl. vi).

Lönnberg, Einar. 1. Einige Nomenklaturfragen. J. Ornith., Leipzig, **54**, 1906, (528-533).

Lönnberg, E. 2. On a remarkable capercaillie (*Tetrao urogallus lugens*). Ibis, London, **1906**, (317-326, pl. xvi).

Löns, H[ermann]. 1. Der Gesang des Pirols. Ornith. Monatsber., Berlin, **14**, 1906, (150-151).

Löns, H. 2. Hannovers Gastvögel. J. Ornith., Leipzig, **54**, 1906, (220-228, 476).

Löns, H. 3. Die Gebirgsbachstelze als Brutvogel der Ebene. Ornith. Monatschr., Gera, **31**, 1906, (504-505).

Loisel, Gustave. 1. Expériences sur la toxicité des œufs. Paris, C.-R. Acad. sci., **141**, 1905, (730-731).

Loisel, G. 2. Expériences sur l'hérédité. Paris, C.-R. Ass. franç. avanc. sci., **34**, (Cherbourg, 1905, 2^e Partie), 1906, (560-562): Bull. Ass. franç. avanc. Sci., **1905**, (337).

Loisel, G. 3. L'hérédité de la pigmentation chez les Pigeons. Paris, Bull. Ass. franç. avanc. Sci., **1904**, (262-263).

Loisel, Gustave et Chappellier, Albert. Les ouvrages de détermination d'animaux. Rev. sci., Paris, sér. 5, **6**, 1906, (365-366).

Lomont. Les oiseaux sont-ils attachés au sol natal? Feuille jeunes natural., Paris, Sér. I, **35**, 1905, (163-165).

Loomis, F[rederic] B[rewster]. A fossil bird from the Wasatch. Amer. J. Sci., New Haven, Conn., Ser. 4, **22**, 1906, (481-482).

Loos, Kurt. Der Uhu in Böhmen nebst einigen Notizen über die Verbreitung dieser Eule in einigen andern Ländern. Nach zahlreichen Berichten u. literarischen Notizen, sowie auf Grund eigener Erfahrungen zsgest. u. bearb. Berlin (R. Friedländer & S.), [1906], (73, 8 Taf.). 26 cm. 4 M.

[Lorenz, F.] Лоренцъ, Ф. Еще о новомъ глухарѣ. [Weiteres über den neuen Auerhahn]. Psov. i ružeju. ochota, Moskva, **12**, 1906, (354-355).

Loudon, Harald. Ueber das Vorkommen des Steinkauzes *Carine noctua* (Retz.) in den Ostseeprovinzen. Ornith. Monatsber., Berlin, **14**, 1906, (190-191).

Loudon, H. *vide* Sarudny, N.

Lowe, P. R. On a new Finch from Blanquilla Island. London, Bull. Brit. Ornith. Cl., **19**, 1906, (6, 7).

Lucas, F[rederick] A[ugustus]. 1. The speed of birds. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (479).

Lucas, F. A. 2. The penguins. Science, New York, N.Y., N. Ser., **24**, 1906, (316-317).

Lüders, Gustav. Unser dankbarster gefiederter Sänger. [*Sylvia atricapilla*]. Gefied. Welt, Magdeburg, **35**, 1906, (315-316, 324-325).

Lunghetti, Bernardino. Konformation, Struktur und Entwicklung der Bürzeldrüse bei verschiedenen Vogelarten. Arch. mikr. Anat., Bonn, **69**, 1906, (264-321, 2 Taf.).

Lurje, Mira. Über die Pneumatisation des Taubenschädels. Anat. Hefte, Wiesbaden, Abt. 1, **31**, 1906, (1-6, 10 Taf.).

McAtee, W[aldo] L[ee]. 1. Virginia creeper as a winter food for birds. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (346-347).

McAtee, W. L. 2. The shedding of the stomach lining by birds. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (346).

McAtee, W. L. 3. A buried treasure of economic ornithology. Science, New York, N.Y., N. Ser., **24**, 1906, (308-312).

McClintock, Norman *vide* Christy, Bayard H.

McClymont, J. R. 1. Birds observed and bird's skins examined in 1905. Emu, Melbourne, **5**, 1906, (161-162).

McClymont, J. R. 2. Birds and their names and dwelling-places in the "Nouveau Voyage à la Mer du Sud." Emu, Melbourne, **5**, 1906, (163-165).

McClymont, J. R. 3. Australian birds in the "Journal wegens een Voyagie na het onbekende Zuid-Land." Emu, Melbourne, **5**, 1906, (211-214).

McClymont, J. R. 4. Names of birds of uncertain origin or meaning. Zoologist, London, **10**, 1906, (271-273).

McCreary, Otto. The ecological distribution of the birds in the Porcupine mountains, Michigan. Michigan, Rep. Geol. Surv., Lansing, **1905**, 1906, (56-57).

McCreary, O[tto] *vide* Wood, N. A.

Macdonald, D. Movements of Robins. Emu, Melbourne, **5**, 1906, (21 pl.).

Macdonald, K. C. A list of birds found in the Myingayan dist. of Burma. Bombay, J. Nat. Hist. Soc., **17**, 1906, (184-194, 492-504).

McGregor, P. J. C. Notes on birds observed at Monastir, Turkey in Europe. Ibis, London, **1906**, (285-307).

McGregor, Richard C. 1. Birds observed in the Krenitzin islands, Alaska. Condor, Santa Clara, Cal., **8**, 1906, (114-122).

McGregor, R. C. 2. Notes on birds observed while travelling from Yokohama to Manila. Condor, Santa Clara, Cal., **8**, 1906, (98-100).

McGregor, R. C. 3. Papers on Philippine birds, 2. The routine of a collector's work. Condor, Santa Clara, Cal., **8**, 1906, (70-73).

McGregor, R. C. 4. *Siphia erithacus* Sharpe, preoccupied. Condor, Santa Clara, Cal., **8**, 1906, (29).

McGregor, R. C. 5. Papers on Philippine birds I.—A collecting trip to Calayan and Fuga. Condor, Santa Clara, Cal., **8**, 1906, (12-16).

McGregor, R. C. 6. Notes on birds collected in Mindoro and in small adjacent islands. Philippine J. Sci., Manila, **1**, 1906, (697-704).

McGregor, K. C. 7. Notes on four birds from Luzon and on a species of doubtful occurrence in the Philippines. Philippine J. Sci., Manila, **1**, 1906, (765-766).

McGregor, R. C. 8. Notes on birds from Apo Island. Philippine J. Sci., Manila, **1**, 1906, (767).

McGregor, R. C. 9. Notes on a collection of birds from Banton. Philippine J. Sci., Manila, **1**, 1906, (768-770).

McGregor, R. C. 10. Notes on a collection of birds from the island of Tablas. Philippine J. Sci., Manila, **1**, 1906, (771-777, pl.).

McGregor, R. C. 11. Notes on a collection of birds from Palawan island, Philippine J. Sci., Manila, **1**, 1906, (903-908).

McGregor, Richard C. and Worcester, Dean C[onant]. A hand-list of the birds of the Philippine islands. Manila, P.I., Dept. Int., Bur. Gov. Lab., No. **36**, 1906, (1-122). 22.3 cm.

McKeehn, F[rederick] B[ridgman]. A late spring record for the yellow rail (*Porzana noveboracensis*) in Massachusetts, with remarks on the 'Ornithological mystery.' Auk, Cambridge, Mass., N. Ser., **23**, 1906, (457-458).

Mackeith, J. Thornton. Are birds' eggs destroyed by wasps? Ann. Scot. Nat. Hist., Edinburgh, **1906**, (118).

Maclaine, J. D. Clarke Islands (Bass Strait) Notes. Emu, Melbourne, **6**, 1906, (67, 68, and 208, 209).

McLean, J. C. 1. The Fern-bird of New Zealand (*Sphenæacus punctatus*, Quoy et Gaim.). Emu, Melbourne, **6**, 1906, (1-7, pls. i-iv).

McLean, J. C. 2. On birds of the East Coast of the North Island, New Zealand. Emu, Melbourne, **6**, 1906, (35).

McLennan, C. Mallee (Victoria) Notes. Emu, Melbourne, **6**, 1906, (67).

McMahon, Henry. On the supposed occurrence of the Whooper Swans in Seistan. Ibis, London, **1906**, (397-399).

Madarász, Julius von. Ueber bisher unbekannte Eier zweier Vogelarten Ostafrikas. [*Pomatorhynchus minor*, *Euprinodes golzi*.] Zs. Oologie, Berlin, **15**, 1906, (178-179).

Madden, F. Notes on *Gymnorhina leuconota*. Emu, Melbourne, **6**, 1906, (205-206).

Magaud d'Aubusson. A propos de la capture d'un Petrel glacial sur les côtes de la Normandie. Naturaliste, Paris, **28**, 1906, (7-8).

Magrath, H. A. F. On some species from Kohat. London, Bull. Brit. Ornith. Cl., **19**, 1906, (7).

Mailliard, Joseph. 1. *Buteo albi-caudatus sennetti* seen in San Francisco, Cal. Condor, Santa Clara, Cal., **8**, 1906, (29).

Mailliard, J. 2. Summer notes from a Santa Barbara garden. Condor, Santa Clara, Cal., **8**, 1906, (45-50).

Mangold, Ernst. Der Muskelmagen der körnerfressenden Vögel, seine motorischen Funktionen und ihre Abhängigkeit vom Nervensystem. Arch. ges. Physiol., Bonn, **111**, 1906, (163-240).

Manis, Silvio. Contributo alla conoscenza morfologica, anatomica ed istologica della lingua del Fenicottero. Biologica, Torino, **1**, 1906, (147-156, 1 tav.).

Mankowsky, A. Zwei seltene Fälle von Doppel-Missbildung beim Hühner-Embryo. Arch. mikr. Anat., Bonn, **67**, 1906, (773-782, 2 Taf.).

Manno, Andrea. Sopra il modo come si perfora e scompare la membrana faringea negli embrioni di pollo. Roma, Ric. Lab. anat. norm., **9**, fasc. 3, 1903, (233-243, 1 tav.).

Marody, L. 1. Reflexionen aus des Nestlings Lied und anderen Erscheinungen im Vogelleben. Gefied. Welt, Magdeburg, **35**, 1906, (181-182, 188-190, 196-197, 203-205, 258-260, 266-268).

Marody, L. 2. Gründe für die Vermutung, dass die Vögel in ihren Winterquartieren singen. Gefied. Welt, Magdeburg, **35**, 1906, (333-334).

Marshall, H. B. Gadwall nesting in Peeblesshire. Field, London, **1906**, (July 28), (196).

Marshall, M. E. A study of the anatomy of *Phalacroptilus*, Ridgway. Philadelphia, Pa., Proc. Amer. Phil. Soc., **44**, (213-240).

Martens, G. H. 1. Eine neue Amerarart aus Südost China. Ornith. Monatsber., Berlin, **14**, 1906, (192-194).

Martens, G. H. 2. Merkmale für die Diagnose von *Hamatopus longirostris*, V. und *H. finschi*, Martens. Ornith. Monatsber., Berlin, **14**, 1906, (90-93).

Martin, G. *vide* Mesnil, F.

Martin, H. C. Some notes on the "Urraca" Jay and other South American birds. Avicult. Mag., Brighton, **2**, **5**, 1906, (33-39).

Martorelli, Giacinto. 1. Sulla comparsa nel Mediterraneo del Gabbiano polare di Ross, *Rhodostethia rosea*. Milano, Rend. Ist. lomb., Ser. **2**, **39**, 1906, (181-192).

Martorelli, G. 2. *H. Dendrocopus maior* (Linn.) e le sue variazioni. Milano, Atti Soc. ital. sc. nat., **44**, 1906, (153-164).

Martorelli, G. 3. On the occurrence of *Rhodostethia rosea* in the Mediterranean. Ibis, London, **1906**, (395).

Masefield, J. R. B. White-tailed Eagle (*Haliaeetus albicilla*) in Staffordshire. Zoologist, London, **10**, 1906, (74).

Mattingley, A. H. E. 1. Principles of Migration. Emu, Melbourne, **6**, 1906, (33-34).

Mattingley, A. H. E. 2. Principles governing movement in Cuckoos and migration in birds. Emu, Melbourne, **5**, 1906, (145-152).

Mattingley, A. 3. Birds new for Australia. Emu, Melbourne, **5**, 1906, (155-156).

Mattingley, A. H. E. 4. The Coach-whip Bird. Emu, Melbourne, **5**, 1906, (192-195, pls. xv, xvi).

Meade-Waldo, E. G. B. 1. On birds observed during the cruise of the "Valhalla" (1905-1906). London, Bull. Brit. Ornith. Cl., **16**, 1906, (95-96).

Meade-Waldo, E. G. B. 2. Some remarks on birds seen during the cruise of the "Valhalla," R.Y.S., 1905-1906. Avicult. Mag., Brighton, **2**, **4**, 1906, (337-340).

Meade-Waldo, E. G. B. 3. Greater Pin-tailed Sand-grouse (*Pteroclorus pyrenaicus*). Avicult. Mag., Brighton, **2**, **4**, 1906, (219-222, cum tab.).

Medland, L. M. *vide* Stonham, C.

Meeker, Jesse C. A. A male golden-winged warbler mated with a female blue-winged warbler at Bethel, Conn. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (104).

Mégnin, Pierre. Sangsues parasites des Palmipèdes. Arch. parasit., Paris, **10**, 1906, [1905], (71-76, av. fig.).

Meiklejohn, M. J. C. Peculiar habits of *Gallinula chloropus*. Zoologist, London, **10**, 1906, (76).

Ménégaux, A. et Hellmayr, C. E. 1. Étude des espèces critiques et des types de groupe de Passereaux trachéophones de l'Amérique tropicale, appartenant aux collections du Muséum. Paris, Bul. soc. philom., sér. **9**, **8**, 1906, (24-58).

Ménégaux, A. and Hellmayr, C. E. 2. The supposed types in the Lafresnaye collection. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (480-483).

Mesnil, F. et Martin, G. Sur la réceptivité des Oiseaux aux Trypanosomes pathogènes pour les Mammifères. Paris, C.-R. soc. biol., **60**, 1906, (739-741).

Metchnikoff, Elie. Recherches sur le blanchissement hivernal des poils et des plumes. Paris, C.-R. Acad. sci., **142**, 1906, (1024-1028).

Meyer, Otto. Die Vögel der Insel Vuatom. Beitrag zur Ornithologie des Bismarckarchipel. Natur u. Offenb., Münster, **52**, 1906, (513-536, 577-604, 641-657).

Millais, J. G. 1. On hybrids between the Black-cock and Common Pheasant. London, Bull. Brit. Ornith. Cl., **16**, 1906, (55-56).

Millais, J. G. 2. On the eclipse plumage of the common poehard. London, Bull. Brit. Ornith. Cl., **16**, 1906, (80).

Millais, J. G. 3. Honey Buzzard (*Pernis apivorus*). "Field" 1906, Feb. 24. Avicult. Mag., Brighton, 2, 4, 1906, (208-209).

Miller, Waldron De Witt. 1. List of birds collected in north-western Durango, Mexico, by J. H. Batty, during 1903. New York, N.Y., Bull. Amer. Mus. Nat. Hist., 22, 1906, (161-183).

Miller, W. De W. 2. Breeding of the Savanna sparrow (*Passerculus sandwichensis savanna*) in southern New Jersey. Auk, Cambridge, Mass., N. Ser., 23, 1906, (340).

Miller, W. De W. 3. Occurrence of *Progne chalybea* in Texas. Auk, Cambridge, Mass., N. Ser., 23, 1906, (226-227).

Mingaud, Galien. Note sur la capture d'un Eider vulgaire en Camargue. Nîmes, Bul. soc. étud. sci. nat., 33, 1906, (170-171).

Moehring, Paulus Henricus Gerardus. Geslachten der Vogelen. Uit het Latyn vertaald en met Aantekeningen vermeerderd door Cornelius Nozeman, en naar die Vertaaling uitgegeeven en met eene Voorreden, Aantekeningen . . . vermeerderd door Arnout Vosmaer. Amsterdam 1758. (Facsimile-Edition. Ed. W. Junk. No. 9.) Berlin (W. Junk), 1906, (XXX + 100, 2 Taf.). 26 cm. 15 M.

[**Molčanov, L. A.**] Молчановъ, Л. А. Списокъ птицъ Естественнo-Историческаго Музея Таврическаго Губернскаго Земства. [Verzeichnis der Vögel im naturhistorischen Museum der taurischen Gouvernementslandbehörde.] Mater. faun. flor. Ross., Moskva, Zool. 7, 1906, (248-301).

[**Molleson, M. I.**] Моллессонъ, М. И. Списокъ Коллекціи Музея Троицко-Кяхтинскаго Отдѣленія Приамурскаго Отдѣла Императорскаго Русскаго Географическаго Общества. [Liste des collections du Muséum de la Sous-Section de Troitzkossawsk-Kiakhta. Section du pays d'Amour de la Société Impériale Russe de Géographie. 1. Section ornithologique.] Trd. Troick-Kiacht. Otd. Russ. Geogr. Obsč., Moskva, 8, 2, 1905 [1906], (41-60).

Montgomery, Tho[ma]s H[arrison], jun. The protection of our native birds. Austin, Bull. Univ. Tex., Sci. Ser., No. 8, 1906, (1-30).

(x-9720 g)

Moore, W. H. A May morning with the birds in New Brunswick. Ottawa Nat., 20, 1906, (22-24).

Morgan, A. M. 1. Where Swallows build. Emu, Melbourne, 5, 1906, (205).

Morgan, A. M. 2. The Birds of Kangaroo Island. Emu, Melbourne, 5, 1906, (224-225).

Morris, R. Fire-crest (*Regulus ignicapillus*) in Sussex. Zoologist, London, 10, 1906, (188).

Morris, Robert O. 1. The rough winged swallow (*Stelgidopteryx serripennis*) breeding near Springfield, Mass. Auk, Cambridge, Mass., N. Ser., 23, 1906, (463).

Morris, R. O. 2. The rough-winged swallow and duck hawk near Springfield, Mass. Auk, Cambridge, Mass., N. Ser., 23, 1906, (341).

Moser, E. Die Haut des Vogels. [In] Handbuch der vergl. mikr. Anatomie der Haustiere, hrsg. v. W. Ellenberger. Bd 1.] Berlin (P. Parey), 1906, (192-232).

Mosley, S. L. Arctic birds with black or brown under parts. Naturalist, London, 1906, (358-359).

[**Mošnin, K. V.**] Мошнянъ, К. В. Воспитаніе тетеревей въ неволѣ. [Aufzucht von Birkwild in der Gefangenschaft.] Psov. i. ružejn. oehota, Moskva, 11, 1905, (487-488, 503-506). 4to.

Mouritz, L. B. 1. Richmond Park notes (September-December, 1905). Zoologist, London, 10, 1906, (434-435).

Mouritz, L. B. 2. *Upupa epops* in Norfolk. Zoologist, London, 10, 1906, (191).

Moyat, J. und Schuster, W. Ungedruckte Tagebücher des Frhr. F. H. von Kittlitz aus den Jahren 1817-24. vide Kittlitz, F. H. von.

Müller, Adolf. 1. Die Zigeuner unter unseren heimischen Vögeln. [*Loxia curvirostra*.] Gefied. Welt, Magdeburg, 35, 1906, (148-150, 157-158).

Müller, A. 2. Aphorismen über die Bastardzüchtung zwischen dem Kanarienvogel und einigen verwandten Finkenvögeln. Gefied. Welt, Magdeburg, 35, 1906, (285-286, 293-294, 301-302).

Murie, J. Supposed Flamingo near Aldeburgh, Suffolk. Zoologist, London, **10**, 1906, (393-394).

Musters, P. C. Occurrence of *Turdus dubius* in Nottinghamshire. London, Bull. Brit. Ornith. Cl., **16**, 1906, (45).

Nehrkorn, A. Berichtigung. J. Ornith., Leipzig, **54**, 1906, (321).

Nehrling, H. Der weissköpfige Seeadler. *Haliaeetus leucocephalus* Boie. (Bald eagle.) Natur u. Haus, Dresden, **14**, 1906, (276-278, 290-293).

Nelson, T. H. Nesting of the Ruff in Yorkshire. Ibis, London, **1906**, (735-736).

Neumann, Oscar. 1. Weiteres über *Crateropus*. Ornith. Monatsber., Berlin, **14**, 1906, (144-149).

Neumann, O. 2. On the adults of *Lophotriorehis lucani* and *Hieractus spilogaster*. London, Bull. Brit. Ornith. Cl., **16**, 1906, (112-113).

Neumann, O. 3. On the Bee-Eaters of the genus *Dierocercus*. London, Bull. Brit. Ornith. Cl., **16**, 1906, (113-114).

Neumann, O. 4. On a new species of *Cisticola* from Angola. London, Bull. Ornith. Cl., **16**, 1906, (114-115).

Neumann, O. 5. Diagnosen neuer afrikanischer Formen. Ornith. Monatsber., Berlin, **14**, 1906, (6-8).

Neumann, [O.] 6. [Ueber *Malaconotus poliocephalus*.] J. Ornith., Leipzig, **54**, 1906, (155-156).

Neumann, O. 7. Vögel von Schoa und Süd Äthiopien. J. Ornith., Leipzig, **54**, 1906, (229-300).

Neumann. 8. On *Sterna microptera*. J. Ornith., Leipzig, **54**, 1906, (558).

Neunzig, K[arl]. Singen unsere Sommervögel in ihren Winterquartieren? Gefied. Welt, Magdeburg, **35**, 1906, (307-309).

Newman, T. H. The Burmese collared Turtle Dove. Avicult. Mag., Brighton, **2**, **4**, 1906, (321-326, tab.).

Newton, E. T. The exploration of the caves of county Clare. Being the second report from the committee appointed to explore Irish Caves. Dublin, Trans. R. Irish Acad., **33**, Birds, (53-60).

Nicholson, F. Notes on the Palaearctic species of Coal-Tits. Manchester, Mem. Lit. Phil. Soc., **50**, No. **13**, 1906, (1-21, tab.).

Nicoll, M. J. 1. Account of the voyage of the R.Y.S. "Valhalla." Ibis, London, **1906**, (211, 394-396).

Nicoll, M. J. 2. On the birds collected and observed during the Voyage of the "Valhalla" R.Y.S., from November, 1905, to May, 1906. Ibis, London, **1906**, (666).

Nicoll, M. J. 3. On the birds collected during the cruise of the "Valhalla" (1905-1906). London, Bull. Brit. Ornith. Cl., **16**, 1906, (92-95).

Nicholl, M. J. 4. On some birds collected during the voyage of the "Valhalla" (1905-1906). London, Bull. Brit. Ornith. Cl., **16**, 1906, (102-106).

Nicoll, M. J. 5. On species observed in Egypt in November. London, Bull. Brit. Ornith. Cl., **19**, 1906, (31).

Nicoll, M. J. 6. Some notes on the Sacred Ibis (*Ibis aethiopica*). Avicult. Mag., Brighton, **2**, **4**, (275-276).

Nicoll, M. J. 7. The Water-Pipit (*Anthus spipoletta*) as a visitor to England. Zoologist, London, **10**, 1906, (463-467).

[**Nikol'skij, N.**] Никольскій, Н. Пзъ охотничьихъ наблюдений на нашемъ Дальнемъ Северѣ. Гара. [Beobachtungen eines Jägers in unserem hohen Norden. Die Königsente.]. Psov. i ružejn. ochota, Moskva, **12**, 1906, (413-415).

Noël, Paul. *L'Argas reflexus*. Naturaliste, Paris, ser. 2, **28**, 1906, (132-133).

Noorduijn, C[ornelis] I[laurens] W[illem]. 1. Die Kanarien mit roten Augen und ihre Erblichkeit. Gefl-Züchter, Leipzig, **11**, 1906, (351).

Noorduijn, C. L. W. 2. Een tegenspraak van Mendel's wet der erfelijkheid. [An exception to Mendel's law of heredity.] Album der Natuur, Haarlem, **1906**, (320-323).

North, A. J. [*Cracticus leucopterus* Gould.] Zool. Anz., Leipzig, **30**, 1906, (861-862).

North, Alfred J[ohn]. 1. Nest and Eggs of Birds found breeding in Aus-

tralia and Tasmania. Austr. Mus. Special Catalogue, **2**, pt. 1, 1906, (1-105, Pls. A. 9, A. 10, A. 11, B. viii, B. ix).

North, A. J. 2. Remarks on the names of some Australian Birds. Ibis, London, **1906**, (53-57).

(North, A. J. 3. On an insular form of *Melithreptus brevirostris*, Vigors and Horsfield. Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (20-21, 1 pl.)

(North, A. J. 4. Notes on the Varied Honey-Eater (*Ptilotis versicolor* Gould). Sydney, N.S.W., Rec. Austr. Mus., **6**, 1905, (29-30, 1 pl.)

North, A. J. 5. On two early Australian Ornithologists (Lewin and Gilbert). Sydney, N.S.W., Rec. Austr. Mus., **6**, 1906, (121-128, pl.).

North, A. J. 6. On a variety of *Goura coronata*. Sydney, N.S.W., Rec. Austr. Mus., **6**, 1906, (230).

(North, A. J. 7. Insectivorous birds. A new genus of the order Passeres [*Orcoscopus*]. Agric. Gaz., Sydney, N.S.W., **16**, 1905, (227-250).)

(North, A. J. 8. A list of the insectivorous birds of New South Wales. Agric. Gaz., Sydney, N.S.W., **16**, 1905, (1011-1021).)

Norton, Arthur H. 1. The eastern distribution of the prairie horned lark: a question of evidence. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (225-226).

Norton, A. H. 2. Occurrence of the titlark (*Anthus pensilvanicus*) in Maine, in spring. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (311-312).

Norton, A. H. 3. A second yellow-crowned night heron (*Nycticorax violaceus*) at Portland, Maine. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (457).

Nozeman, Cornelius *vide* Moehring, Paulus Henricus Gerardus.

Oates, E[ugene] W. 1. On some new species of silver-pheasants from Burma. Bombay, J. Nat. Hist. Soc., **17**, 1906, (10-12).

Oates, E. W. 2. On the species of bean-geese. Bombay, J. Nat. Hist. Soc., **17**, 1906, (38-50, 1 pl.).

Oberbeck, R. Brutverhältnisse in der Saale-Niederung um Bernburg. (N-9720 g)

Ornith. Monatsber., Berlin, **14**, 1906, (121-127).

Oberholser, Harry C[hurch]. 1. Description of a new *Querquedula*. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (93-94).

Oberholser, H. C. 2. An earlier name for *Melospiza lincolni striata*. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (42).

Oberholser, H. C. 3. The specific name of the hawk owls. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (42-43).

Oberholser, H. C. 4. The status of the generic name *Hemiprocne* Nitzsch. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (67-69).

Oberholser, H. C. 5. Notes on birds from German and British East Africa. Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc., **30**, 1906, (801-811).

Oberholser, H. C. 6. The North American eagles and their economic relations. Washington, D.C., Bull. U. S. Dept. Agric., Biol. Surv., No. **27**, 1906, (1-31).

Oberholser, H. C. 7. The proper generic name for the nightingale. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (228-229).

Oberholser, H. C. 8. Description of two new birds from British East Africa. Pittsburg, Pa., Ann. Carnegie Mus., **3**, 1906, (495-497).

Oberholser, H. C. 9. A monograph of the genus *Collocalia*. Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, 1906, (177-212).

Ogawa, Mitsunori. 1. Taiwan Menkwatō nite etaru Sūshu no Chōrui. [On some birds obtained on the island of Menkwatō, N. of Kilung in Formosa.] Dobuts. Z., Tokyo, **18**, 1906, (125-131).

Ogawa, M. 2. Shizuoka nite etaru Chinchō 2 Shu. [On two rare species of birds obtained in Shizuoka.] Dobuts. Z., Tokyo, **18**, 1906, (157-160).

[Ogawa, M. 3. Notes on Mr. Alan Owston's collection of birds from the islands lying between Kinsin and Formosa. Annot. Zool. Jap., Tokyo, **5**, part 4, 1905, (175-232, pls. ix, x, xi).]

Ogilby, J. Douglas. The principles of migration. Emu, Melbourne, **5**, 1906, (225-226).

Oldham, C. 1. Eider (*Somateria mollissima*) in Cheshire. Zoologist, London, **10**, 1906, (76).

Oldham, C. 2. Notes on the Little Grebe (*Podiceps fluitans*). Zoologist, London, **10**, 1906, (351-353).

Omensetter, Sanford *vide* Fussell, L.

Oort, E. D. van. 1. On a new bird of paradise. Leiden, Notes Mus., Jentink, **28**, 1906, (129-130).

Oort, E. D. van. 2. *Somateria mollissima* Brutvogel in Holland. Ornith. Monatsber., Berlin, **14**, 1906, (173-174).

Oppel, Albert. 1. Verdauungsapparat. Anat. Hefte, Wiesbaden, Abth. **15**, Abt. 2, 1906, [*Aves*], (238).

Oppel, A. 2. Atmungsapparat. Anat. Hefte, Wiesbaden, **15**, Abt. 2, 1906, [*Aves*], (310).

Osgood, Fletcher. 1. The towhee nesting in bushes. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (462-463).

Osgood, F. 2. A robin's nest without mud. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (464).

Osmaston, B. B. Notes on Andaman birds, with accounts of the nidification of several species whose nests and eggs have not been hitherto described. Bombay, J. Nat. Hist. Soc., **17**, 1906, (156-163, 486-491).

Otto, Benno. Aus dem Räuberleben des *Lanius collurio*. Ornith. Monatsber., Berlin, **14**, 1906, (172-173).

Otto, Hugo. Zwei seltsame Erscheinungen in der Vogelwelt. Zs. Oologie, Berlin, **16**, 1906, (81-86).

Ottosson, O. Ueber die Eier der Rosenmöve, *Rhodostethia rosea* (Macg.). Zs. Oologie, Berlin, **16**, 1906, (133).

Oustalet, Emil. Obituary; *vide* Hellmayr, **17**.

[P., G. I.] 1. П., Г. II. Помѣсь или выродокъ? [Bastard oder Spielart?] Psov. i ruzejn. ochota, Moskva, **12**, 1906, (337).

[P., G. I.] 2. П., Г. II. Морянка въ Московской губернии. [*Fuligula glacialis* im Gouv. Moskau.] Psov. i ruzejn. ochota, Moskva, **12**, 1906, (355).

[P., G. I.] 3. П., Г. II. Объ опереніи самки чернети хохлатой. [Ueber das Gefieder der Reiherente.] Psov. i ruzejn. ochota, Moskva, **12**, 1906, (531-533).

[Pačoskij, I.] 1. Пачоскій, II. Вальдшнепъ-альбиносъ. [Ein Waldschneppen-Albino.] Psov. i ruzejn. ochota, Moskva, **12**, 1906, (40).

[Pačoskij, I.] 2. Пачоскій, II. Перелеты утокъ. [Der Flug der Enten.] Psov. i ruzejn. ochota, Moskva, [Buchausgabe], **1906**, 1, (156-160).

Paddock, G. H. Colour of the eyes in *Coccothraustes vulgaris*. Zoologist, London, **10**, 1906, (109).

Paessler. Ein Ausflug bei Coronol in Chile. Zs. Oologie, Berlin, **16**, 1906, (27-30).

Palmer, T[hodore] S[herman]. Additional American records of the ruff. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (98-99).

[Pangalo, K. I.] Пангало, К. II. О строеніи гребня у куръ. [Ueber den Bau des Kammes bei den Hähnen.] Moskva, Ann. Inst. agron., **12**, 1906, 1, (15-19).

Paris, Paul. 1. Oiseaux d'Europe. Paris, Bul. ass. franç. avanc. sci., **1904**, (263).

Paris, P. 2. Sur la glande uropygienne des Oiseaux. Paris, Bul. soc. zool., **31**, 1906, (101-107, fig.).

Parker, E. *vide* Collett, A.

Parker, G[eorge] H[oward]. Double hens' eggs. [Cont. Mus. Comp. Zool., Harvard Coll., No. **173**.] Amer. Nat., Boston, Mass., **40**, 1906, (13-25).

Parkin, T. 1. Lecture on extinct birds. Hastings, Ann. Rep. Nat. Hist. Soc., **1**, 1906, (1-3, pls.).

Parkin, T. 2. Visit to the heronry at Alder Shaw, Beckley, Sussex. Hastings, Ann. Rep. Nat. Hist. Soc., **1**, 1906, (12-13, pl. v).

Parona, Corrado. Sdoppiamento del vessillo in due penne di pollo. Genova, Atti Soc. ligustica sc. nat. geogr., **17**, 1906, (97-98).

Parrot, [Carl]. 1. [*Certhia familiaris* u. *brachydactyla*.] München, Verh. ornith. Ges., **6**, (1905), 1906, (12).

Parrot, C. 2. Zur Systematik der paläarktischen Corviden. I. Zool. Jahrb., Jena, Abt. f. Syst., **23**, 1906, (257-294).

Parrot, C. 3. Beobachtungen über den Vogelzug. [In] Anleitung zu wiss. Beobachtungen auf Reisen. 3. Aufl. Bd 2. Hannover (M. Jänecke), 1906, (836-839).

Parrot, C. 4. Vogelzugsbeobachtungen auf Reisen. Globus, Braunschweig, **89**, 1906, (123-126).

Parrot, C. *vide* Leege, Otto.

Passig, Hans. Freilebender Mischling von Haus- und Feldsperling. Gefied. Welt, Magdeburg, **35**, 1906, (373-374).

Paszlavszky, József. A kakuk szavának hangmagassága. [Die Tonhöhe des Kukuksrufs.] Term. Közl., Budapest, **38**, 1906, (412-413).

Paterson, J. Report on Scottish Ornithology for 1905. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (140-150, 196-205).

Patrizi Montoro, Filippo. Sopra una *Chettusia gregaria* (Pallas) o *Pavoncella gregaria* colta nell'Agro Romano. Roma, Boll. Soc. zool. ital., Ser. 2, **6**, 1906, (70-71).

Patterson, A. H. 1. Interesting hybrid Duck. Zoologist, London, **10**, 1906, (75).

Patterson, A. H. 2. Sea-going Pigeons. Zoologist, London, **10**, 1906, (76).

Patterson, A. H. 3. Interesting birds in Yarmouth Market. Zoologist, London, **10**, 1906, (115-116).

Patterson, A. H. 4. Red-crested Pochard at Yarmouth. Zoologist, London, **10**, 1906, (394-395).

Patterson, A. H. 5. Nature in Eastern Norfolk. London, 1906.

Patterson, R. Lloyd Obituary, *vide* Ibis, London, **1906**, (366-367).

Patterson, R. The birds of Ireland and the Isle of Man. Irish Nat., Dublin, **15**, 1906, (159-170).

Pavesi, Pietro. E sempre il Merlo bianco. Milano, Rend. Ist. Lomb., Ser. 2, **36**, 1903, (278-290).

Pawsey, C. F. Bird census of Restawell district [Victoria]. Emu, Melbourne, **6**, 1906, (70).

Peacock, M. The birds of North-west Lindsey. Naturalist, London, **1906**, (42-47).

Pearson, H. J. Exhibition of photographs of groups of birds in the American Museum of Natural History, New York. London, Bull. Brit. Ornith. Cl., **16**, 1906, (47).

Peebles, Florence. The location of the chick embryo upon the blastoderm. J. Exp. Zool., Baltimore, Md., **1**, 1904, (369-383, 2 pl.).

Peet, Max M. *vide* Wood, N. A.

Peignon, E. Notices ornithologiques. Paris, Bul. soc. zool., **30**, 1905, (144-145).

Péju, G. *vide* Rajat, H.

Pellegrin, Jacques. Sur un cas d'albinisme chez le Foulque (*Fulica atra* Linné). Paris, Bull. soc. zool., **31**, 1906, (62-64, av. fig.).

Pelt Lechner, A. A. van. Bijdrage tot de Oologie der in Nederland broedende Vogelsoorten. [Beitrag zur Oologie der in den Niederlanden brütenden Vogelarten.] Amsterdam, Versl. Med. Ned. Ornith. Ver., **3**, 1906, (10-25, 1 Taf.).

Pennetier, G. Collection générale. Oiseaux. Actes Muséum hist. nat., Rouen, **10**, 1906, (18).

Penrose, F. Migration report of the British Ornithologists' Club. London, Bull. Brit. Ornith. Cl., **16**, 1906, (52).

Percival, W. G. 1. A few notes on birds in the Atbara in Soudan. Avicult. Mag., Brighton, **2**, **4**, 1906, (282-283).

Percival, W. G. 2. A morning's bird-nesting on the Nile. Avicult. Mag., Brighton, **2**, **4**, 1906, (227-228).

Perrier, E. Observations sur les Oiseaux parleurs. Bul. Inst. psych. internat., Paris, **3**, 1903, (11-12).

Petit, L. 1. Chouettes et Grands-ducs articulés pour la chasse. Paris, Bul. soc. zool., **30**, 1905, (48-51).

Petit, L. 2. Note sur la Mouette de Sabine. Paris, Bul. soc. zool., **28**, 1903, (196).

Pflugk, Albert von. Ueber die Akkommodation des Auges der Taube nebst Bemerkungen über die Akkommodation des Affen (*Macacus cynomolgus*) und des Menschen. Wiesbaden (J. F. Bergmann), 1906, (46, 3 Taf.). 27 cm. 3,60 M.

Phillipps, R. 1. The Regent-bird (*Sericulus melinus*). Avicult. Mag., Brighton, 2, 4, 1906, (88-96, 123-131).

Phillipps, R. 2. Aviaries versus cages. Avicult. Mag., Brighton, 2, 4, 1906, (139-145, 203-205).

Phillipps, R. 3. Further notes on the Blue Wren (*Malurus cyaneus*). Avicult. Mag., Brighton, 2, 4, 1906, (228-235).

Phillipps, R. 4. Old friends—a reminiscence. Avicult. Mag., Brighton, 2, 4, 1906, (255-259).

Phillipps, R. 5. The Violet-eared Waxbill (*Granatina granatina*). Avicult. Mag., Brighton, 2, 4, 1906, (295-306, tab.).

Phillott, D[ouglas] C[raven]. 1. Note on the Common Kestrel (*Tinnunculus alaudarius*). Calcutta, J. As. Soc. Beng., 2, 1906, (527-528).

Phillott, D. C. 2. Note on the Huma or Lammergeyer (*Gypaëtus barbatus*). Calcutta, J. As. Soc. Beng., 2, 1906, (532-533).

Phillott, D. C. 3. Note on the Houbara or Bastard Bustard (*Houbara Macqueenii*). Calcutta, J. As. Soc. Beng., 2, 1906, (449-454).

Pichler, A. Beiträge zur Kenntnis der Avifauna der Umgebung von Mostar. Ornith. Monatschr., Gera, 31, 1906, (378-396, 425-438, 462-474, 487-503, 531-545, 559-572).

Pierce, Wright M. The bell sparrow. Condor, Santa Clara, Cal., 8, 1906, (152-153).

Piettre et Vila, A. Sur le noyau des hématies des Oiseaux. Paris, C.-R. Acad. sci., 142, 1906, (908-910).

Pocci, Franz Graf von. Der Fasan in Bayern, eine historische und zoologische Darstellung. München (E. Hirsch in Komm.), 1906, (xv + 225, Taf.). 25 cm.

Pocock, R. 1. Aviaries versus cages. Avicult. Mag., Brighton, 2, 4, 1906, (131-139).

Poll, H. Der Geschlechtsapparat der Mischlinge von *Cairina moschata* (L.) ♂ und *Anas boschas* var. dom. L. ♀. Berlin, SitzBer. Ges. natf. Freunde, 1906, (4-7).

Pratt, A. E. Two years among New Guinea cannibals, a Naturalist's sojourn among the Aborigines of unexplored New Guinea. London, 1906, (+). Svo.

Pringle, M. Some Western district notes. Emu, Melbourne, 6, 1906, (66-67).

Pycraft, W. P. 1. Contributions to the osteology of birds. Part viii. The Tracheophone Passeres: with remarks on families allied thereto. London, Proc. Zool. Soc., 1906, (133-159).

Pycraft, W. P. 2. Notes on a skeleton of the Musk Duck (*Biziura lobata*), with special reference to the skeletal characters evolved in relation to the diving habits of this bird. London, J. Linn. Soc. Zool., 29, 1906, (396).

Pycraft, W. P. 3. On a hybrid between a male Black cock and a hen Pheasant. London, Bull. Brit. Ornith. Cl., 16, 1906, (54-55).

Pycraft, W. P. 4. The origin of birds. Knowledge and Sci. News, London, 1906, (531-532).

Quistorp, O. *Otis tetrax* Brutvogel in Neuvorpommern. Ornith. Monatsber., Berlin, 14, 1906, (31).

Rabaud. Observations sur les manifestations mentales chez les Oiseaux. Observations de MM. Perrier, Giard, Hachet-Souplet, Bouvier. Bul. Inst. psych. internat., Paris, 4, 1901, (438-443).

Rabl, Hans. 1. Die Entwicklung der Arterien der vorderen Extremitäten bei der Ente. Anat. Anz., Jena, 29, ErgH., 1906, (142-144).

Rabl, H. 2. Die erste Anlage der Arterien der vorderen Extremitäten bei den Vögeln. Arch. mikr. Anat., Bonn, 69, 1906, (310-388, 3 Taf.).

Radloff, K. Einiges über die Vogelwelt der beiden Ostseebäder Carlshagen und Heiligenhafen. Natur u. Haus, Dresden, 14, 1906, (313-315).

Raja, H. et **Péju**, G. A propos d'un *Taenia* trouvé vivant dans un œuf de poule. Paris, C.-R. soc. biol., 61, 1906, (564-565).

Ralfe, P. G. 1. The birds of the Isle of Man. Edinburgh, 1906, (xiii + 321). Svo.

Ralfe, P. G. 2. Leach's Fork-tailed Petrel (*Procellaria leucorrhoa*) in the Isle of Man. Zoologist, London, **10**, 1906, (194).

Ralfe, P. G. 3. White Wagtail and Common Redstart in the Isle of Man. Zoologist, London, **10**, 1906, (275).

Ralfe, P. G. 4. Blackbird laying twice in the same nest. Zoologist, London, **10**, 1906, (390).

Raspail, Xavier. 1. Une station ornithologique dans l'Oise. Paris, Mém. soc. zool., **18**, 1905, (32).

Raspail, X. 2. La légende de Jenner sur l'isolement du jeune Coucou dans le nid. Paris, Bul. soc. zool., **30**, 1905, (29-39).

Raspail, X. 3. Développement asymétrique d'un crâne de poulet. Paris, Bul. soc. zool., **29**, 1904, (60-63).

Raspail, X. 4. Durée de l'incubation et de l'éducation des jeunes chez le Bruante zizi. Paris, Bul. soc. zool., **28**, 1903, (154-158).

Raspail, X. 5. Sur les moyens employés par les Oiseaux pour se faire comprendre de l'homme. Paris, Bul. soc. zool., **28**, 1903, (151-153).

Raspail, X. 6. Durée de l'incubation et de l'éducation des jeunes dans le nid chez le *Butalis* gris. Paris, Bul. soc. zool., **28**, 1903, (186-188).

Raspail, X. 7. Durée de l'incubation et de l'éducation des jeunes dans le nid chez le Mouchet chanteur. Paris, Bul. soc. zool., **28**, 1903, (181-184).

Raspail, X. 8. Durée de l'incubation chez le Verdier ordinaire. Paris, Bul. soc. zool., **29**, 1904, (187-188).

Raspail, X. 9. Durée de l'incubation et de l'éducation des jeunes dans le nid chez la Linotte vulgaire. Paris, Bul. soc. zool., **29**, 1904, (198-201).

Rattray, R. H. Birds nesting in the Murree hills and gullies. Bombay, J. Nat. Hist. Soc., **16**, 1905, (657-663, pls. C. D. E.).

Rausch, Mathias. Einiges zur Klarstellung des Sprosser-Wirrwarr. Gefied. Welt, Magdeburg, **35**, 1906, (290-292, 298-300, 306-307, 314-315).

Ray, Milton S. 1. A-birding in an auto. Auk, Cambridge, Mass., **23**, 1906, (400-418).

Ray, M. S. 2. Summer birds of San Francisco county, California. Condor, Santa Clara, Cal., **8**, 1906, (42-44).

Read, R. H. 1. Birds nesting in August. Zoologist, London, **10**, 1906, (353-354).

Read, R. H. 2. On a Cuckoo's egg in a Gold-crest's nest. London, Bull. Brit. Ornith. Cl., **19**, 1906, (21-22).

Read, R. H. 3. On a nest of the Long-tailed Tit. London, Bull. Brit. Ornith. Cl., **19**, 1906, (22).

Reed, Chester A[lbert]. Bird guide. Part I. Water birds, game birds and birds of prey east of the Rockies. Worcester, Mass., (C. K. Reed), 1906, (254). 8.5 × 14.5 cm.

Reeker, H. 1. Nochmals die Stinkdrüse des Wiedelhofes. NatCab., Grünberg, **1906**, (216).

Reeker, H. 2. Die Zunahme des Schwarzspechtes in Westfalen. Münster, Jahresber. ProvVer. Wiss., **34**, (1905-06), 1906, (38-40).

Reeker, H. 3. Wie oft im Jahre brüten unsere Stare? Münster, Jahresber. ProvVer. Wiss., **34**, (1905-06), 1906, (126-127).—Nachträge dazu v. B. Wigger, T.c. (159-160), v. Paul Wemer, (160).

Reichenow, A. 1. Neue afrikanische Arten. Ornith. Monatsber, Berlin, **14**, 1906, (10).

Reichenow, [A.]. 2. Neue Arten aus Afrika. Ornith. Mon., Berlin, **14**, 1906, (171-172).

Reichenow, A. 3. Bemerkung über *Diomedea platei*. Ornith. Monatsber., Berlin, **14**, 1906, (51).

Reichenow, A. 4. *Grus niediecki*, sp. n. von Ornadyr Gulf, E. Siberia. Ornith. Monatsber., Berlin, **14**, 1906, (190).

Reichenow, A. 5. Erklärung. Nov. Zool., Tring, **13**, 1906, (762).

Reichenow, [A.]. 6. [*Gervaisia altera* n. sp.] J. Ornith., Leipzig, **54**, 1906, (153).

Reichenow, [A.]. 7. [*Erithacus rubecula microrhynchus* von Madeira.] J. Ornith., Leipzig, **54**, 1906, (153).

Reichenow, A. 8. Bemerkungen zu der Abhandlung „Vögel von Schoa und Süd-Äthiopien von O. Neumann.“ J. Ornith., Leipzig, **54**, 1906, (322–323).

Reichenow, A. 9. *Podica jacobi*, sp. n. J. Ornith., Leipzig, **54**, 1906, (325).

Reichenow, A. 10. Ueber *Garrulus lidhi*. J. Ornith., Leipzig, **54**, 1906, (478).

Reichenow, A. 11. Sammeln und Beobachten von Vögeln. [In: Anleitung zu wiss. Beobachtungen auf Reisen. 3. Aufl. Bd 2.] Hannover (M. Jänecké), 1906, (527–560).

Reichenow, Anton v. Neumann, Oscar.

Reiser, O. Materialien zu einer Ornis Balcanica. III. Griechenland und die griechischen Inseln (mit Ausnahme von Creta). Wien, 1905, (590). Roy. 8vo.

Renaut, W. E. Occurrence of the Fire-crest at Wimbledon, Surrey. London, Bull. Brit. Ornith. Cl., **16**, 1906, (45).

Rendle, Max. Zum Kapitel der Vogel- und Bienenschädlichkeit des rotrückigen Würgers—*Lanius collurio*, L. Gefied. Welt, Magdeburg, **35**, 1906, (105–106, 113–114, 121–122, 130–131, 137–138).

Renshaw, G. The Pigeon Hollandais. Zoologist, London, **10**, 1906, (49–52).

Rey, E[ugen]. 1. Ueber die Eier von *Balcarica chrysopelargus* (Licht). Zs. Oologie, Berlin, **16**, 1906, (93, 94, 99, 119).

Rey, E. 2. Beobachtungen aus der Avifauna von Klinga. Ornith. Monatschr., Gera, **31**, 1906, (133–145, 171–180).

Rey, E. 3. Sonderbare Niststätten. Zs. Oologie, Berlin, **15**, 1906, (161–162).

Reynaud. L'orientation des Pigeons voyageurs. Le colombier mobile. Discussion: MM. Perrier, Hachet-Souplet, Ménégau, Artault, Barrier, Giard. Bul. Inst. psych. internat., Paris, **3**, 1903, (119–128).

Rheinen, C. Der Kranich im Geflügelhofe. Ornith. Monatsber., Berlin, **14**, 1906, (96–97).

Richardson, C. H., jun. 1. Birds whose notes are imitated by the western mockingbird. Condor, Santa Clara, Cal., **8**, 1906, (56).

Richardson, C. H., jun. 2. Cannibalism in owls. Condor, Santa Clara, Cal., **8**, 1906, (57).

Richardson, C. H., jun. 3. A correction. Condor, Santa Clara, Cal., **8**, 1906, (57).

Ridgway, Robert. 1. Some observations concerning the American families of oligomyodian passerines. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (7–16).

Ridgway, R. 2. Descriptions of some forms of oligomyodian birds. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (115–120).

Ridgway, R. 3. “*Atratus* versus *megalonyx*.” Condor, Santa Clara, Cal., **8**, 1906, (53, 100).

Riegler, W. 1. Ein denkwürdiger Gimpelzug. Wild u. Hund, Berlin, **12**, 1906, (793).

Riegler, W. 2. Wie die Schwalben ziehen. Wild u. Hund, Berlin, **12**, 1906, (636–637).

Ries, A[lois]. Beobachtungen über den Frühjahrszug 1906 von *Hirundo rustica* L. und verwandten Arten bei Bamberg. München, Verh. ornith. Ges., **6** (1905), 1906, (100–106).

Riley, J. H. A new subspecies of Ground Dove from Mona Island, Porto Rico. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **29**, 1906, (171–172).

Rippon, G. 1. On three new species from Western Yun-nan. London, Bull. Brit. Ornith. Cl., **19**, 1906, (19).

Rippon, G. 2. Further new species of birds from Western Yun-nan. London, Bull. Brit. Ornith. Cl., **19**, 1906, (31–32).

Rippon, G. 3. On new species from the South Chin Hills. London, Bull. Brit. Ornith. Cl., **16**, 1906, (47).

Rippon, G. 4. On two new species from Mt. Victoria, S. Chin Hills, Burma. London, Bull. Brit. Ornith. Cl., **16**, 1906, (87).

Roberts, Mary C. Additional notes on the nesting of *Phaps chalcoptera* and *Ocyphaps lophotes*. Emu, Melbourne, **5**, 1906, (159).

Robinson, H. C. On a specimen of *Idiopsar brachyurus* from La Paz, Bolivia, in the Liverpool Museum. Ibis, London, **1906** (387–388).

Rörig, G[eorg]. 1. Untersuchungen über die Verdauung verschiedener Nahrungsstoffe im Krähenmagen. Berlin, Arb. biol. Anst., **5**, 1906, (266-278).

Rörig, G. 2. Magenuntersuchungen heimischer Raubvögel. Berlin, Arb. biol. Anst., **5**, 1906, (237-265).

Rogers, J. B. Do Emus migrate? Emu, Melbourne, **6**, 1906, (13-14).

Romano-Prestia, Francesco. Alcune ricerche citologiche sul nevrasso del Colombo. Napoli, Boll. Soc. nat., **19**, (1905), 1906, (248-283, 3 tav.).

Ross, J. A. Some Bird-life on the Murray frontage. Emu, Melbourne, **6**, 1906, (48-53, pl. vi).

[**Rossikov, K. N.**] 1. Россиковъ, К. Н. Очерки изъ жизни животныхъ. I. Ковыльный или степной орелъ (*Aquila orientalis* Cab.). [Skizzen aus dem Leben der Thiere. I. Der Steppenadler (*Aquila orientalis* Cab.).] Naturfreund, St. Petersburg, **1**, 1906, (23-28, 1 Taf.).

[**Rossikov, K. N.**] 2. Россиковъ, К. Н. Очерки изъ жизни животныхъ. II. Чеглокъ или соколъ бѣлогорликъ (*Falco subbuteo* L.). Skizzen aus dem Leben der Thiere. II. Der Baumfalk (*Falco subbuteo* L.).] Naturfreund, St. Petersburg, **1**, 1906, (80-85, 1 Taf.).

[**Rossikov, K. N.**] 3. Россиковъ, К. Н. Очерки изъ жизни животныхъ. III. Орелъ-звѣздъ или Крачунъ голубоногий (*Circætos gallicus*). [Skizzen aus dem Leben der Thiere. III. Der Schlangennadler (*Circætos gallicus*).] Naturfreund, St. Petersburg, **1**, 1906, (191-198, 1 Taf.).

Rothschild, W. 1. On a new species of Parrot from German New Guinea. London, Bull. Brit. Ornith. Cl., **19**, 1906, (27-28).

Rothschild, W. 2. Description of two new species of birds. London, Bull. Brit. Ornith. Cl., **16**, 1906, (81).

Rothschild, W. 3. On a new species of *Polyplectron* from Hainan. London, Bull. Brit. Ornith. Cl., **16**, 1906, (111-112).

Rothschild, W. and Hartert, E. On a new species of Pigeon from New Britain. London, Bull. Brit. Ornith. Cl., **19**, 1906, (28).

Rothschild, W. vide Foerster, F.

Rouse, John E. The mental life of the domestic pigeon. An experimental study of certain emotional and associative processes. Harvard Psych. Stud., Boston, Mass., **2**, 1906, (581-613).

Roux, Wilhelm. Ueber die funktionelle Anpassung des Muskelmagens der Gans. Arch. EntwMech., Leipzig, **21**, 1906, (461-499).

Rüdiger sen. Vom Schreiadlerhorst. Zs. Oologie, Berlin, **16**, 1906, (133-135).

Rüdiger. Brüten der Waldschnepfe in der Mark. Zs. Oologie, Berlin, **16**, 1906, (45-46).

Russell, F. Whoopers in Islay. Zoologist, London, **10**, 1906, (74-75).

Russell, H. Brambling in Surrey. Zoologist, London, **10**, 1906, (110).

Russow, R. E. Beobachtungen über den Vogelzug in Nikolsk-Ussurisk in Ost-Sibirien im Jahre 1905. Ornith. Monatschr., Gera, **31**, 1906, (202-214).

Rzehak, E. 1. Notiz über *Cornix cornix* (Linne). Ornith. Monatsber., Berlin, **14**, 1906, (189-190).

Rzehak, E. 2. *Serinus canarius serinus* (L.) und sein Vorkommen in Serbien. Ornith. Monatsber., Berlin, **14**, 1906, (49-50).

Rzehak, E. 3. Ornithologische Reminiscenzen aus Serbien. Ornith. Monatsber., Berlin, **14**, 1906, (116-121).

Rzehak, E. 4. Das Vorkommen und die Verbreitung des Mauerläufers (*Tichodroma muraria* (L.)) in Serbien. Ornith. Monatschr., Gera, **31**, 1906, (121-124).

Rzehak, E. 5. Der Eichelhäher, *Garrulus glandarius* (L.) als Schlangenvertilger. Ornith. Monatschr., Gera, **31**, 1906, (417-418).

Rzehak, E. 6. Wie transportiert die Waldschnepfe ihre Jungen? Ornith. Monatschr., Gera, **31**, 1906, (506-508).

St. Quintin, W. H. 1. Breeding notes for 1905. Avicult. Mag., Brighton, **2**, **4**, 1906, (192-194).

St. Quintin, W. H. 2. Rough notes on the birds at Scampston Hall. Avicult. Mag., Brighton, **2**, **4**, 1906, (284-285).

St. Quintin, W. H. 3. Breeding of the Pine Grosbeak in captivity. Avicult. Mag., Brighton, **5**, 1906, (55-56).

Sala, Gaido. 1. Sulla fina struttura dei centri ottici degli Uccelli. Nota prima. Il Ganglio dell'Istmo. Milano, Mem. Ist. lomb., **20**, Ser. 3, 11, fasc. 5, 1905, (157-162, 2 tav.).

Sala, G. 2. Sulla fina struttura dei centri ottici degli Uccelli. Nota ii. Il Nucleus lateralis mesencephali e le sue adiacenze; Il Ganglio del dutto ottico. Milano, Mem. Ist. lomb., **20**, Ser. 3, **11**, 1906, (183-190, 2 tav.).

Salvadori, T[ommaso]. 1. Spedizione al Ruwenzori di S. A. Luigi di Savoia. Nuove specie d'Uccelli. Torino, Boll. Musei zool. anat., **21**, No. 542, 1906, (1-2).

Salvadori, T. 2. Note intorno ai passerii italiani. Torino, Atti Acc. sc., **41**, (1905-6), 1906, (961-970).

Salvadori, T. 3-6. Notes on the parrots. Part III. Ibis, London, **1906**, (124-131); Part IV, (326-337). Part V, (451-465). Part VI, (642).

Salvadori, T. 7-9. Contribuzioni alla Ornitologia delle Isole del Golfo di Guinea. Parte I: Uccelli dell'Isola del Principe; Parte II: Uccelli di San Thomé; Parte III: Uccelli di Anno-Bom e di Fernando Po. Torino, Mem. Acc. sc., Ser. 2, **53**, 1903, (1-45; 93-125).

Salzmann, E. 1. Amselalbino. Ornith. Monatschr., Gera, **31**, 1906, (85).

Salzmann, E. 2. Brutplätze des Steinsperlings (*Petronia petronia* (L.)) in Mittelthüringen. Ornith. Monatschr., Gera, **31**, 1906, (182-186).

Salzmann, E. 3. Zum Kranichzug. Ornith. Monatschr., Gera, **31**, 1906, (253-254).

Salzmann, E. 4. Kropf- und Mageninhalt vom Baumfalken (*Falco subbuteo* L.). Ornith. Monatschr., Gera, **31**, 1906, (511).

Sarudny, N. 1. Über zwei neue Arten des Stieglitzes (*Carduelis*) aus Persien. Ornith. Monatsber., Berlin, **14**, 1906, (47-49).

Sarudny, N. 2. *Francolinus orientalis bogdanovi* subsp. nov. Ornith. Monatsber., Berlin, **14**, 1906, (151-152).

Sarudny und Buturlin. *Sitta dresseri* n. sp. Ornith. Monatsber., Berlin, **14**, 1906, (132).

Sarudny, N. [A.] und Loudon, H. 1. Zum Material über die asiatischen *Pterocles* und *Columba*. Ornith. Monatsber., Berlin, **14**, 1906, (132-134).

Sarudny, N. und Loudon, H. 2. *Asio accipitrinus pallidus* subsp. nov. Ornith. Monatsber., Berlin, **14**, 1906, (151).

Sarudny, N. vide etiam Zarudny, N. A.

Saunders, H. On a remarkable specimen of an Eider-Duck from the Orkneys. London, Bull. Brit. Ornith. Cl., **16**, 1906, (44).

Saunders, W. E. Birds new to Ontario. Ottawa Nat., **19**, 1906, (205-207).

Saxby, T. E. Bird notes from Shetland (May to November, 1905). Zoologist, London, **10**, 1906, (35-36).

Scaffidi, Vittorio. Sul decorso delle fibre nervose nel segmento anteriore delle vie ottiche del pollo. Roma, Ric. Lab. anat. norm., **12**, 1906, (87-99, 1 tav.).

Schalow, Hermann. 1. Jean Cabanis†. Gedächtnisrede . . . [nebst Verzeichnis der ornitholog. Schriften.] J. Ornith., Leipzig, **54**, 1906, (329-358).

Schalow, H. 2. Beiträge zu einer ornithologischen Bibliographie des Atlasgebietes. J. Ornith., Leipzig, **54**, 1906, (100-143).

Schalow, H. 3. Über *Lanius excubitoes*. J. Ornith., Leipzig, **54**, 1906, (558).

Scheel, O. Eine Storchmahlzeit. Zs. Ornith., Stettin, **30**, 1906, (212-213).

Schein, Ed. Würger, Goldammer und Kuckuck. Gera, Jahresber. Ges. Natw., **46-48** (1903-1905), 1906, (174-175).

Schenk, Jakab. 1. A madárvonulás Magyarországon az 1905. év tavaszán. [Der Vogelzug in Ungarn im Frühjahr 1905.] Aquila, Budapest, **13**, 1906, (83-145).

Schenk, J. 2. A madárvonulás Magyarországon az 1904. év tavaszán. [Der Vogelzug in Ungarn im Frühjahr 1904.]

1904.] *Aquila*, Budapest, **13**, 1906, (9-66, mit 5 Zugskarten).

Schenk, J. 3. Jelentés az 1906. évi tanulmányi kirándulásokról. [Bericht über die Studienexcursionen im Jahre 1906.] *Aquila*, Budapest, **13**, 1906, (180-206).

Schepelmann, Emil. Ueber die gestaltende Wirkung verschiedener Ernährung auf die Organe der Gans, insbesondere über die funktionelle Anpassung an die Nahrung. Kritische und experimentelle Untersuchung. [I. Allgemeines, Speiseröhre u. Magen.] *Arch. Entw.Mech.*, Leipzig, **21**, 1906, (500-595).

Schiebel, G. Die Phylogenese der *Lanius*-Arten. Untersuchungen über die gegenseitige Abstammung sämtlicher Arten der echten Würger auf Grund der Zeichnungsentwicklung des Federkleides. *J. Ornith.*, Leipzig, **54**, 1906, (1-77, 163-219, Taf. A--N).

Schinziuger. Die Kramtsvogelfrage. Vortrag. Monatshefte Jagdschutzver., Berlin, **11**, 1906, (330-338, 348-359).

Schmidt, Wilhelm. Das Vogelleben im Schönbug [Württemberg]. *Gefied. Welt*, Magdeburg, **35**, 1906, (268-269).

Schmitz, Ernesto. Abnorme Hühnerierei. *Zs. Oologie*, Berlin, **16**, 1906, (38-41).

Schmitz, E. Aufzeichnung aus Funchal. *Ornith. Monatsber.*, Berlin, **14**, 1906, (175).

Schnee. Ein nordischer Vogelberg. *Aus d. Natur.*, Stuttgart, **2**, 1906, (44-49).

Schürer, Johannes. Der extranuptiale Gesang der Vögel. *Ornith. Monatschr.*, Gera, **31**, 1906, (148-153).

Schulz, G. Ferienbeobachtungen 1905. [Mark Brandenburg.] *Zs. Oologie*, Berlin, **15**, 1906, (148-151).

Schuster, Ludwig. 1. Ueber die Abzugszeit des Pirols (*Oriolus galbula*). *Ornith. Monatschr.*, Gera, **31**, 1906, (416-417).

Schuster, L. 2. Die Wahner Heide. *Zs. Ornith.*, Stettin, **30**, 1906, (210-212).

Schuster, L. 3. Das Nest der Nachtigall. *Zool. Beob.*, Frankfurt a. M., **47**, 1906, (276-279).

Schuster, Wilhelm. 1. Ornithologische Tagesnotizen von der Küste der irischen See (Westliches England, Wales). *Aus Januar—Juni 1906*. Wiesbaden, *Jahrb. Ver. Natk.*, **59**, 1906, (173-184).

Schuster, W. 2. Ornithologisches aus dem Mainzer Becken 1906. *Zool. Beob.*, Frankfurt a. M., **47**, 1906, (314-315).

Schuster, W. 3. Beiträge zur Geschichte der Vogelkunde. Eine Studie . . . zur Würdigung der älteren hessischen Ornithologie. [Biographisches.] *Zool. Beob.*, Frankfurt a. M., **47**, 1906, (298-301).

Schuster, W. 4. Musikalische Würdigung des Kuckucksrufs. (Nach Erfahrungen u. Feststellungen in Deutschland u. England.) *Münster, Jahresber. ProvVer. Wiss.*, **34** (1905-06), 1906, (133-146).

Schuster, W. 5. Möwen als Nachtvögel. *Zool. Beob.*, Frankfurt a. M., **47**, 1906, (79).

Schuster, W. 6. Ab- und Zunahme, periodisch stärkeres und schwächeres Auftreten der einheimischen Vögel, für verschiedene Landesteile Deutschlands, Oesterreichs und der Schweiz statistisch festgelegt (III). *Zool. Garten*, Frankfurt a. M., **47**, 1906, (7-14).

Schuster, W. 7. Neues aus dem Mövenstaat. *Ornith. Rdsch.*, Berlin, Jg **2**, 1906, (49-51).

Schuster, W. 8. Nidologisches und Oologisches aus Wales. *Ornith. Rdsch.*, Berlin, Jg **2**, 1906, (65-68).

Schuster, W. 9. Die Verbreitung der Blauracke . . . *Natur u. Haus*, Dresden, **14**, 1906, (264-265).

Schuster, W. vide Moyat, J.

Schwartz, Martin. Der Knocheninhalt eines Waldohreulengewölles. *Berlin, Arb. biol. Anst.*, **5**, 1906, (279-281, 1 Taf.).

Schwarz, L. Etwas über Krähen. [Zur Psychologie.] *Gefied. Welt*, Magdeburg, **35**, 1906, (99-101).

Slater, P. L. 1. Nesting of *Irrisor viridis* in Natal. London, Bull. Brit. Ornith. Cl., **16**, 1906, (48, 63).

Slater, P. L. 2. On the capture of fish by tame Cormorants. London, Bull. Brit. Ornith. Cl., **16**, 1906, (48-49).

Slater, P. L. 3. Chairman's Address to the British Ornithologists' Club. London, Bull. Brit. Ornith. Cl., **19**, 1906, (2-6).

Slater, P. L. 4. Occurrence of the Red-breasted Goose in Holland. London, Bull. Brit. Ornith. Cl., **19**, 1906, (21).

Slater, P. L. 5. On birds from S.E. Rhodesia. London, Bull. Brit. Ornith. Cl., **19**, 1906, (29-31).

Slater, P. L. 6. On some birds collected by Mr. Douglas Carruthers in the Syrian Desert. Ibis, London, **1906**, (307-317, pl. xv).

Slater, P. L. 7. Note on *Emberiza citriniventris*. Ibis, London, **1906**, (612).

Slater, P. L. 8. Obituary notice of Jean Cabanis. Ibis, London, **1906**, (606-608).

Slater, W. L. 1. On a new species of *Agapornis*. London, Bull. Brit. ornith. Cl. **16**, 1906, (61-62).

Slater, W. L. 2. The Birds of South Africa. Vol. **4**. London, (xviii + 546). 8vo.

Slater, W. L. 3. The migration of birds in South Africa. London, Rep. Brit. Ass., **3**, (special vols.) 1906, (40-48).

Slater, W. L. 4. On the occurrence of *Thalassogeron layardi* off the Knysna Heads, S. Africa. Ibis, London, **1906**, (212, 213).

Scott, E. The first Australian Bird observer [Dampier]. Emu, Melbourne, **6**, 1906, (21-25).

Seeger, J. H. Willy. 1. Ornithologisches aus dem Winter 1905-06. (Frankfurt a. M.) Ornith. Rdsch., Berlin, Jg **2**, 1906, (54-55).

Seeger, J. H. W. 2. Gefiederte Wintergäste. Zool. Beob., Frankfurt a. M., **47**, 1906, (79-81, 218).

Selous, E. Observations tending to throw light on the question of sexual

selection in birds, including a day-to-day diary on the breeding habits of the Ruff (*Machetes pugnax*). Zoologist, London, **10**, 1906, (201-219, 285-291, 419-428).

Sergent, Edmond et Sergent, Etienne. Sur le second hôte de *Phaenoproetus* (*Halteridium*) du Pigeon. Paris, C.-R. soc. biol., **61**, 1906, (494-496).

Service, R. The *Sylviidae* of Solway Glasgow, Trans. Nat. Hist. Soc., **2**, **7**, 1906, (137-147).

Seth-Smith, D. 1. Humming-birds at the Zoological Gardens. Avicult. Mag., Brighton, **2**, **4**, 1906, (109-111).

Seth-Smith, D. 2. The Red-mantled Parrakeet (*Platycecus erythropeplus*. Avicult. Mag., Brighton, **2**, **4**, 1906, (132).

Seth-Smith, D. 3. The colour of young Pennant Parrakeets. Avicult. Mag., Brighton, **2**, **4**, 1906, (157-158).

Seth-Smith, D. 4. The American Bobwhite. (*Colinus virginianus*.) Avicult. Mag., Brighton, **2**, **4**, 1906, (164-167).

Seth-Smith, D. 5. The Crystal Palace bird show. Avicult. Mag., Brighton, **2**, **4**, 1906, (172-174).

Seth-Smith, D. 6. The vernacular names of birds. Avicult. Mag., Brighton, **2**, **4**, 1906, (216-218).

Seth-Smith, D. 7. Bird notes from the Zoological Gardens. Avicult. Mag., Brighton, **2**, **4**, 1906, (265-266, 285, 286).

Seth-Smith, D. 8. The Green-winged Pigeons of the genus *Chalcophaps*. Avicult. Mag., Brighton, **2**, **4**, 1906, (277-280).

Seth-Smith, D. 9. The breeding of the Yellowish Finch. Avicult. Mag., Brighton, **2**, **4**, 1906, (340-341).

Seth-Smith, D. 10. Notes on the Quails of the genus *Coturnix*. Avicult. Mag. Brighton, **2**, **5**, 1906, (23-30, cum tab.).

Seth-Smith, D. 11. The management and rearing of Quails in captivity. Avicult. Mag., Brighton, **2**, **5**, 1906, (30-33).

Seth-Smith, D. 12. Notes on the Plumed Doves. Avicult. Mag., Brighton, **2**, **5**, (51-54 cum tab.).

Seth-Smith, L. M. Notes on a trip in Uganda. Avicult. Mag., Brighton, **2**, **4**, 1906, (119-123).

Seton, Ernest Thompson. How to study a bird. Bird Lore, Harrisburg, Pa., **6**, 1904, (181-184).

Seton, E. T. and Chapman, Frank M. The black tern at home. Bird Lore, Harrisburg, Pa., **6**, 1901, (1-5).

Sharp, C. S. 1. Nesting of the Red-bellied Hawk. Condor, Santa Clara, Cal., **8**, 1906, (144-148).

Sharp, C. S. 2. Unusual breeding records at Escondido. Condor, Santa Clara, Cal., **8**, 1906, (75).

Sharpe, R. Bowdler. 1. On the Banksian collection of drawings in the British Museum. London, Bull. Brit. Ornith. Cl., **16**, 1903, (86).

Sharpe, R. B. 2. On a new species of Swallow from Uganda. London, Bull. Brit. Ornith. Cl., **16**, 1906, (86).

Sharpe, R. B. 3. On a new species of *Pentholwa* from N. E. Africa. London, Bull. Brit. Ornith. Cl., **16**, 1906, (126).

Sharpe, R. B. 4. On two new species from the Camaroons hinter-land. London, Bull. Brit. Ornith. Cl., **19**, 1906, (18).

Sharpe, R. B. vide Jackson, F. J.

Sharples, R. P. The downy woodpecker. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (101).

Shaw, W. A. The birds of Northamptonshire and neighbourhood. Report for 1905. Northampton, J. Nat. Hist. Soc., **13**, 1906, (173-177).

Shelley, G. E. 1. The birds of Africa, comprising all the species which occur in the Ethiopian Region. Vol. **5**, part 1. London, 1906, (vi + 164, pls. xliii-xlix). Svo.

Shelley, G. E. 2. On two new species of birds from Gaza Land. London, Bull. Brit. Ornith. Cl., **16**, 1906, (125-126).

Shufeldt, R[obert] W[ilson]. 1. On the osteology of the pigeons (*Columbae*). J. Morph., Boston, Mass., **17**, 1901, (487-516).

Shufeldt, R. W. 2. Bird photography in Norway. Pop. Sci. Mon., New York, N.Y., **63**, 1906, (464-472).

Silloway, P[erley] M[ilton]. Among the flathead birds. Condor, Santa Clara, Cal., **8**, 1906, (109-110).

Smallbones, G. 1. *Surnia ulula tianschanica* n. sp. Ornith. Monatsber., Berlin, **14**, 1906, (27-29).

Smallbones, G. 2. Ein Beitrag zur Ornithologie des Tianschan. J. Ornith., Leipzig, **54**, 1906, (411-428).

Smalley, F. King-Eider ♀ (*Somateria spectabilis*) in Orkney. Zoologist, London, **10**, 1906, (113-114).

Smith, A. F. Cairns (N. Queensland) Notes. Emu, Melbourne, **5**, 1906, (210-211).

Smith, S. Yorkshire notes on the Tufted Duck (*Fuligula cristata*). Zoologist, London, **10**, 1906, (432-433).

Smyth, Ellison A[dger], jun. Bachman's finch in Montgomery County, Virginia. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (341).

Snethlage, E. 1. Über unteramazonische Vögel. J. Ornith., Leipzig, **54**, 1906, (407-411, 519-526).

Snethlage, E. 2. Ueber brasilianische Vögel. Briefliche Mitteilung. Ornith. Monatsber., Berlin, **14**, 1906, (9-10).

Snethlage, E. 3. Einige Bemerkungen über *Hypocnemis vidua* Hellm. und *Phlogopsis paraensis* Hellm. Ornith. Monatsber., Berlin, **14**, 1906, (29-31).

Snethlage, E. 4. Ein neuer Zwergspecht. Ornith. Monatsber., Berlin, **14**, 1906, (59-60).

Snouckaert van Schauburg, [René] baron. 1. Ornithologie van Nederland 1 Mei, 1905-30 April, 1906. [Ornithologie der Nederlanden 1 Mai, 1905-30 April, 1906.] Amsterdam, Versl. Med. Ned. Ornith. Ver., **3**, 1906, (25-43).

Snouckaert van Schauburg, R. 2. Over de in Nederland voorkomende vormen van Zwartkopmees en Boomkruiper. [Ueber die in den Niederlanden vorkommenden Formen von Sumpfeisen und Baumläufer.] Amsterdam, Versl. Med. Ned. Ornith. Ver., **3**, 1906, (3-10).

Snouckaert van Schauburg, baron R. 3. Ornithologie van Nederland. [Ornithologie of the Netherlands.] Helder, Tydschr. Ned. Dierk. Ver., Ser. 2, **10**, 1906, (204-218).

Snouckaert van Schauburg. 4. Ornithologische Notizen aus Holland vom

1 Mai 1904 bis 30 April 1905. Ornith. Monatsber., Berlin, **14**, 1906, (73-78).

Snouckaert van Schanburg, R. **5**. [*Turdus merula* singt am 17. Jan.] Ornith. Monatsber., Berlin, **14**, 1906, (62).

Snow, Francis H[untington]. Two birds new to the avifauna of Kansas. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (106).

Soli, Ugo. Sulla struttura delle fibre muscolari lisce dello stomaco degli uccelli. Comunicazione riassuntiva. Anat. Anz., Jena, **29**, 1906, (586-591).

Soprana, F. Examen microscopique du système nerveux et du système musculaire d'un pigeon chez lequel l'ablation des canaux demi-circulaires avait été suivie d'une très grave atrophie musculaire. Arch. ital. biol., Torino, **45**, 1906, (135-114).

Southwell, J. Hybrid black-game. Zoologist, London, **10**, 1906, (395).

Sprenger, A. Die Trabanten des Frühlings im Katschtal (Oberkärnten). Ornith. Monatschr., Gera, **31**, 1906, (513-514).

Stahl vide Harke.

Stebbins, Joel and **Fath**, Edward A. The use of astronomical telescopes in determining the speeds of migrating birds. Science, New York, N.Y., N. Ser., **24**, 1906, (49-51).

Steele-Elliott, J. **1**. Some notes on birds of Donegal. Zoologist, London, **10**, 1906, (153-154).

Steele-Elliott, J. **2**. Extracts from Churchwardens' accounts of Bedfordshire. Zoologist, London, **10**, 1906, (161-167, 253-265).

Stefani (De) Perez, T. **1**. Importante cattura ornitologica (*Haliëtus leucorhynchus*) fatta in Sicilia. Naturalista sicil., Palermo, **18**, 1905, (51-52).

Stefani (De) [Perez], T. **2**. Note ornitologiche. Naturalista sicil., Palermo, **18**, 1905, (116-118).

Stejneger, Leonhard. Isolation versus natural selection. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (265-270).

Stephan, P. **1**. Sur le degré de développement des organes génitaux des hybrides. Paris, C.-R. soc. biol., **60**, 1906, (598-599); Réunion biologique de Marseille, 1906, (14-15).

Stephan, P. **2**. Modifications du syncytium nourricier dans le tube séminifère des hybrides. Paris, C.-R. soc. biol., **60**, 1906, (892-893).

Stephens, Kate. **1**. Some items in the diet of California Shrikes. Condor, Santa Clara, Cal., **8**, 1906, (130).

Stephens, K. **2**. Scott Orioles at San Diego. Condor, Santa Clara, Cal., **8**, 1906, (130).

Sterzi, Andrea Ippolito. **1**. I gruppi midollari periferici degli uccelli. Archivio zool., Napoli, **2**, 1906, (465-514, 2 tav.).

Sterzi, I. **2**. I gruppi midollari periferici degli uccelli. C.-R. ass. anat., 7^e session, (Genève), 1905, Nancy, 1906, (134-135).

Stolzmann, J. vide Berlepsch, H. von.

Stone, Witmer. **1**. The percentage of error in bird migration records. Condor, Santa Clara, Cal., **8**, 1906, (88-90).

Stone, W. **2**. The relative merits of the "elimination" and "first species" method in fixing the types of genera—with special reference to ornithology. Science, New York, N.Y., N. Ser., **24**, 1906, (560-565).

Stone, W. **3**. Some light on night migration. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (249-252).

Stone, W. **4**. A bibliography and nomenclator of the ornithological works of John James Audubon. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (298-312).

Stone, W. **5**. Some unpublished letters of Alexander Wilson and John Abbot. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (361-368).

Stone, W. **6**. On a collection of birds from British East Africa obtained by Mr. George L. Harrison, jr. Philadelphia, Pa., Proc. Acad. Nat. Sci., **57**, (1905), 1906, (755-782).

Stonham, C. The birds of the British Islands. With illustrations by L. M. Medland. Parts 1-4. London, 1906, 8vo.

Storer, J. H., jun. The black vulture again in eastern Massachusetts. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (222).

Strasser, H. Zur Entwicklung und Pneumatisation des Taubenschädels. C.-R. ass. anat., 7^e session, (Genève), 1905, Nancy, 1906, (165-174).

Stresemann. [Paarung von *Acanthis linaria* ♂ mit *Carduelis carduelis* ♀.] Ornith. Monatschr., Gera, 31, 1906, (308-309).

Sushkin, P. On new birds from Central Asia. London, Bull. Brit. Ornith. Cl., 16, 1906, (56-61).

Swain, J. Merton. Contributions to the life history of the pine warbler. *Dendroica vigorsii* (Aud.). J. Maine Ornith. Soc., Portland, 8, 1906, (88-89).

Swainson, E. A. Distribution of the Corn Bunting (*Emberiza miliaria*) in Wales. Zoologist, London, 10, 1906, (350).

Swales, Bradshaw H[all]. 1. The Carolina Chickadee in southern Michigan. Auk, Cambridge, Mass., N. Ser., 23, 1906, (342).

Swales, B. H. 2. Three Michigan records. Auk, Cambridge, Mass., N. Ser., 23, 1906, (100).

Swales, H. B. and Taverner, P. A. Remarks on the summer birds of Lake Muskoka, Ontario. Wilson Bull., Oberlin, Ohio, 18, N. Ser., 13, 1906, (60-68).

Swales, B. H. vide Taverner, P. A.

Swenk, Myron H. Some Nebraska bird notes. Auk, Cambridge, Mass., N. Ser., 23, 1906, (108-109).

Szielasko, Alfred. Untersuchungen über die Gestalt und die Bildung der Vögeleier. Diss. Königsberg i. Pr. (Druck v. O. Kummel), 1904, (30). 21 cm.

Szily, Aurel von. Ueber Amnion-einstülpung ins Linsenbläschen der Vögel. Anat. Anz., Jena, 28, 1906, (231-234).

[**Tarnani, I.**] Тарнапи, И. Уродства животныхъ. [Monstruosités chez les animaux.] Novo-Aleksandrija, Zap. Inst. selisk. choz., 18, 1906, 1, (106-134).

Taschenberg, Otto vide Lindner, C.

Taverner, P[ercey] A. 1. The yellow-breasted chat in Michigan. Wilson Bull., Oberlin, Ohio, 18, 1905, (17-21).

Taverner, P. A. 2. Hudsonian godwit (*Limosa haemastica*) in Ontario.

Auk, Cambridge, Mass., N. Ser., 23, 1906, (335).

Taverner, P. A. 3. South-eastern Michigan records. Auk, Cambridge, Mass., N. Ser., 23, 1906, (335).

Taverner, P. A. 4. Some new Michigan records. Auk, Cambridge, Mass., N. Ser., 23, 1906, (106-108).

Taverner, P. A. and Swales, B. H. Lesser snow geese in Michigan and Ontario. Auk, Cambridge, Mass., N. Ser., 23, 1906, (219-220).

Taverner, P. A. vide Swales, B. H.

Teiche, A. Weshalb singt der Vogel? Gefied. Welt, Magdeburg, 35, 1906, (209-211).

Tepe, R. vide Thysse, Jac[obus] P[ieter].

Teschemaker, W. E. 1. Nesting of the Yellow-rumped Finch (*Munia flaviprymna*). Avicult. Mag., Brighton, 2, 4, 1906, (97-99).

Teschemaker, W. E. 2. The nesting of the Black Tanager (*Tachyphonus melaleucus*). Avicult. Mag., Brighton, 2, 4, 1906, (331-336, cum tab.).

Teschemaker, W. E. 3. The breeding of the Red-headed Finch (*Amadina erythrocephala*). Avicult. Mag., Brighton, 2, 4, 1906, (354-357).

Thallwitz, J. Die Tierwelt. Einiges über die Wirbeltierfauna der Ufer und des Wassers. Ann. Biol. Lacustre, Bruxelles, 1, 1906, (256-258).

Thayer, Gerald. H. 1. A brief general classification of the songs of eastern North American wood warblers. Bird-Lore, Harrisburg, Pa., 8, 1906, (64-65).

Thayer, G. H. 2. A Massachusetts duck hawk aery. Bird-Lore, Harrisburg, Pa., 6, 1904, (47-53).

Thayer, John E[liot]. 1. Nests and eggs of the beardless flycatcher. Auk, Cambridge, Mass., N. Ser., 23, 1906, (460-461).

Thayer, J. E. 2. Leach's petrel inland in Massachusetts. Auk, Cambridge, Mass., N. Ser., 23, 1906, (97).

Thayer, J. E. 3. Eggs and nests of the thick-billed parrot (*Rhynchopsitta pachyrhyncha*). Auk, Cambridge, Mass., N. Ser., 23, 1906, (223-224).

Thayer, J. E. 4. Richardson's owl in eastern Massachusetts. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (222).

Thayer, J. E. and **Bangs, Outram.** 1. Aves. [Vertebrata from the Savanna of Panama. Papers from the John E. Thayer Expedition of 1904, No. 3.] Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**, 1906, (213-224).

Thayer, J. E. and **Bangs, O.** 2. Breeding birds of the Sierra de Antonez, north central Sonora. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (17-22).

Thienemann, J. 1. Vogelwarte Rossitten. Ornith. Monatsber., Berlin, **14**, 1906, (5-6, 46, 64, 89-90, 157-159, 190).

Thienemann, J. 2. V. Jahresbericht (1905) der Vogelwarte Rossitten der Deutschen Ornithologischen Gesellschaft. J. Ornith., Leipzig, **54**, 1906, (429-476, mit 1 Karte).

Thienemann, [J.] 3. Farben- und Formvarietäten der Eier der Lachmöve (*Larus ridibundus*). Königsberg, Schr. physik. Ges., **46**, (1905), 1906, (173-174).

Thienemann, [J.] 4. Der Vogelzug auf der kurischen Nehrung. Königsberg, Schr. physik. Ges., **46**, (1905), 1906, (104-112).

Thienemann, [J.] 5. Charakterformen der preussischen Ornith. Königsberg, Schr. physik. Ges., **46**, (1905), 1906, (157-161).

Thienemann, J. 6. Vogelzug auf der kurischen Nehrung. Danzig, Ber. bot.-zool. Ver., **28**, 1906, (111-115).

Thienemann, [J.] 7. Ueber Saatkrähen-Kolonien in Ostpreussen. Königsberg, Schr. physik. Ges., **47**, 1906, (64-70).

Thienemann, J. 8. Vogelwarte Rossitten. (Vogelzugversuch, Vorkommen von *Phylloscopus viridanus* Blyth.) Königsberger landw. Ztg, **42**, 1906, (193).

Thomas, Fr[iedrich]. Die Mannigfaltigkeit im Kuckucksrufe. Eine Anregung zu weiteren Beobachtungen. Thür. Monatsbl., Eisenach, **14**, 1906, (17-20, 29-31).

Thomas, J. L. Hybridization experiments with the Ceylon Jungle Fowl. Spolia Zeylan., Colombo, **4**, 1906, (19-28).

Thysse, Jac[obus] P[ieter] en Tepe, R. Het intieme leven der vogels. [Das intime Leben der Vögel.] Haarlem (Vincent Loosjes), 1906, (vii + 239, 50 Taf.). 23 cm.

Ticehurst, C. B. 1. On the occurrence of the Pine Grosbeak in Sussex. London, Bull. Brit. Ornith. Cl., **16**, 1906, (48).

Ticehurst, C. B. 2. On the occurrence of the Black-throated Wheatear in Kent. London, Bull. Brit. Ornith. Cl., **16**, 1906, (124-125).

Ticehurst, N. F. 1. On the occurrence of *Oceanodroma castro* at Hythe. London, Bull. Brit. Ornith. Cl., **19**, 1906, (20).

Ticehurst, N. F. 2. On a hybrid between *Phasianus colchicus* and *hrysolophus pictus*. London, Bull. Brit. Ornith. Cl., **19**, 1906, (34).

Tischler, F. 1. *Parus salicarius* (Bz.) in Schlesien und Ostpreussen. Ornith. Monatsber., Berlin, **14**, 1906, (61).

Tischler, F. 2. Die Vogelwelt des Kinkeimer Sees. Ein Beitrag zur Ornith. des mittleren Ostpreussen. Ornith. Monatschr., Gera, **31**, 1906, (260-277).

Toogood, C. Ornithological notes from Lewes. Zoologist, London, **10**, 1906, (153).

Townsend, Charles W[endell]. 1. Note on the crop contents of a nestling mourning dove (*Zenaidura macroura*). Auk, Cambridge, N. Ser., **23**, 1906, (336-337).

Townsend, C. W. 2. Notes on the birds of Cape Breton island. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (172-179).

Townsend, C. W. 3. The lark sparrow in Massachusetts. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (103-104).

Trendelenburg, Wilhelm. 1. Ueber die Bewegung der Vögel nach Durchschneidung hinterer Rückenmarkswurzeln. Ein Beitrag zur Physiologie des Zentralnervensystems der Vögel (nach Untersuchungen an *Columba domestica*). Arch. Anat. Physiol., Leipzig, Physiol. Abt., **1906**, (1-126).

Trendelenburg, W. 2. Weitere Untersuch. üb. d. Bewegung der Vögel. Arch. Anat. Physiol., Leipzig,

Physiol. Abt., **1906**, Supp. Bd., II. Hälfte. (231).

Tristram, H. B. Obituary, *vide* Zoologist, London, **10**, 1906, (155-156); and Ibis, London, **1906**, (602-606); and Avicult. Mag., Brighton, **4**, 1906, (194).

Trouessart, E. *vide* Favette, J.

Trowbridge, C[harles] C[hristopher]. On the interlocking of emarginate primary feathers in flight. Amer. J. Sci., New Haven, Conn., Ser. 4, **21**, 1906, (145-169).

Tschusi zu Schmidhoffen, Viktor Ritter v. **1**. Der Seidenschwanz (*Bombycilla garrula* L.) im Winter 1905-06. Zool. Beob., Frankfurt a. M., **47**, 1906, (142-146).

Tschusi zu Schmidhoffen, V. Ritter v. **2**. Ornithologische Kollektaneen aus Oesterreich-Ungarn und dem Okkupations-Gebiete. Ornith. Monatschr., Gera, **31**, 1906, (438-452).

Tschusi v. Schmidhoffen, V. Ritter v. **3**. Zu: „Ansammlungen von Staren zur Brutzeit.“ Ornith. Monatsber., Berlin, **14**, 1906, (8).

Tschusi zu Schmidhoffen, V. Ritter v. **4**. Beobachtung an *Apus apus* (L.). Ornith. Monatschr., Gera, **31**, 1906, (577-578).

Tschusi zu Schmidhoffen, V. Ritter v. **5**. Ankunfts- und Abzugsdaten bei Hallein (1905), II. Ornith. Monatschr., Gera, **31**, 1906, (573-577).

Tschusi zu Schmidhoffen, V. Ritter v. **6**. Ornithologische Kollektaneen aus Oesterreich-Ungarn und dem Okkupations-Gebiete. XIV (1905). Zool. Beob., Frankfurt a. M., **47**, 1906, (303-311, 337-345).

Tuck, J. G. **1**. Great Crested Grebe (*Podiceps cristatus*) breeding in Essex. Zoologist, London, **10**, 1906, (315).

Tuck, J. G. **2**. Notes on Nest-boxes. Zoologist, London, **10**, 1906, (316-317).

Tufts, Harold F. Nesting of cross-bills in Nova Scotia. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (339-340).

Tulloch, J. S. Occurrence of the Bullfinch in Shetland. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (50-51).

Tur, Jean. **1**. Sur le développement anormal du parablaste dans les embryons de poule, (parablaste sous-germinal). (N-9720 g)

Paris, Bul. soc. philom., sér. 9, **8**, 1906, (177-192).

[Tur, I. J.] **2**. Туръ, II. Я. О въздѣйствіи лучей радія на начальное развитіе куриныхъ зародышей. Предвар. сообщ. [Ueber die Einwirkung von Radium-Strahlen auf die ersten Entwicklungsstadien von Hühnerembryonen. Vorl. Mitth.] Varšava, Trd. Obsč. jest., **15**, 1904 [1905], (1-11).

[Tur, I. J.] **3**. Туръ, II. Я. Къ вопросу объ эмбриональныхъ включеніяхъ („Foetus in foetu“). [Ein Beitrag zur Frage über die embryonalen Einschlüsse (Foetus in foetu“).] Varšava, Trd. Obsč. jest., **15**, 1904 [1905], (1-11).

Twining, Granville H. The embryonic history of carotid arteries in the chick. Anat. Anz., Jena, **29**, 1906, (650-663).

Ufer, Willibald. **1**. Der Sperlingspapagei. Natur u. Haus, Dresden, **14**, 1906, (166-168).

Ufer, W. **2**. Vögel als Pflegemütter. Natur u. Haus., Dresden, **14**, 1906, (363-365).

Uhde, von. Räuberisches Benehmen des Wendehals (*Jynx torquilla*). Ornith. Monatschr., Gera, **31**, 1906, (124-125).

[Ušakov, V. E.] **1**. Ушаковъ, В. Е. О гнѣздовѣхъ сѣрой вороны. [Ueber das Nisten der Nebelkrähe.] Psov. i ružejn. ochota, Moskva, **12**, 1906, (152-153).

[Ušakov, V.] **2**. Ушаковъ, В. Особенность тетеревинныхъ токовъ. [Eigenthümlichkeiten beim Balzen der Birkhähne.] Prov. i ružejn. ochota, Moskva, **12**, 1906, (353-354).

[Ušakov, V.] **3**. Ушаковъ, В. Хищныя птицы въ Тарскомъ районѣ. [Die Raubvögel der Umgegend der Stadt Tary.] Psov. i ružejn. ochota, Moskva, **12**, 1906, (382-384).

Vallon, G. Fauna ornitologica friulana (Parte II). Triest, Boll. Soc. Adriat. Sci. Nat., **22**, 1905, (1-138).

Vaucher, A. Note sur *Falco eleonorae* Gén. Fenille jeunes natural., Paris, sér. 4, **36**, 1906, (99-100).

Van Kempen, Charles. **1**. Intéressante capture ornithologique auprès de Saint-Omer (Pas-de-Calais). Paris, Bul. soc. zool., **30**, 1906, (150).

Vau Kempen, C. 2. Remarque sur une incubation des Buses vulgaires (*Buteo vulgaris* Linn.). Paris, Bul. soc. zool., **30**, 1906, (151).

Van Kempen, C. 3. Flamant rose (*Phanicopterus roseus* Pall) tué près de Dunkerque. Paris, Bul. soc. zool., **30**, 1906, (151).

Van Kempen, C. 4. Deux notices ornithologiques inédites de Gerbe concernant la Bretagne. Nantes, Bul. soc. sci. nat., sér. 2, **6**, 1906, (177).

Van Kempen, C. 5. Note sur les Hirondelles. Paris, Bul. soc. zool., **27**, 1902, (206).

Vigorita, Domenico. Sulla costituzione e genesi dello strato cuticolare dello stomaco muscoloso degli uccelli. Napoli, Boll. Soc. nat., **19**, (1905), 1906, (193-216, 2 tav.).

Viguié, Louis. Note sur un hybride obtenu à l'école de Saint-Genès par le croisement d'un pigeon paon mâle avec une femelle de tourterelle. Bordeaux, Actes soc. linn., sér. 6, **10**, **60**, 1905, (Pr.-verb., xxxiii-xxxv).

Vila, A. vide Piettre.

Voigt, Alwin. 1. Gebirgsbachstelze und Sperbergrasmücke in der Umgebung Leipzigs. Ornith. Monatsber., Berlin, **14**, 1906, (174-175).

Voigt, A. 2. Dorndreher und Vogelschutz. Ornith. Monatschr., Gera, **31**, 1906, (14-16).

Voigt, A. 3. Exkursionsbuch zum Studium der Vogelstimmen. Praktische Anleitung zum Bestimmen der Vögel nach ihrem Gesange. 4. verm. u. verb. Aufl. Dresden (H. Schultze), 1906, (312). 19 cm. Geb. 3 M.

Voit, E[rwin]. Versuche an Tauben über die Bedeutung des Federkleides. München, SitzBer. Ges. Morph., **19**, (1903), H. 2, 1904, (39).

Vollnhofer, Pál. A vizirigó (*Cinclus cinclus* L.) halgazdasági jelentőségéről. [Über die fischwirtschaftliche Bedeutung der Wasserramsel (*Cinclus cinclus* L.).] Erd. kis., Selmeczbánya, **8**, 1906, (1-81).

Vosmaer, Arnout vide Moehring, P.

Wagner, Josef vide Kullmann, K.

Wallenberg, Adolf. Die basalen Aeste des Scheidewandbündels der Vögel (Rami basales tractus septomes-

encephalici). Anat. Anz., Jena, **28**, 1906, (394-400).

Wallis, H. M. Bone-breaking habits of the Laemmergeier. London, Bull. Brit. Ornith. Cl., **16**, 1906, (97).

Walton, H. J. 1. On the birds of Southern Tibet. Ibis, London, **1906**, (57-81 and 226-256, pls. ii, xiv).

Ward, A. E. Birds of the Provinces of Kashmir and Jammu and adjacent Districts. Bombay, J. Nat. Hist. Soc., **17**, 1906, (479-485).

Ward, Henry L[evi]. 1. Notes of the herring gull and the Caspian tern (*Larus argentatus* and *Sterna caspia*). Milwaukee, Bull. Wis. Nat. Hist. Soc., N. Ser., **4**, 1906, (113-134, pl.).

Ward, H. L. 2. Why do herring gulls kill their young? Science, New York, N.Y., N. Ser., **24**, 1906, (593-594).

Warde, D. F. Spring arrivals near Canterbury. Zoologist, London, **10**, 1906, (195-196).

Warren, Edward R. 1. *Contopus virens* in Colorado. Condor, Santa Clara, Cal., **8**, 1906, (130).

Warren, E. R. 2. A collecting trip to southeastern Colorado. Condor, Santa Clara, Cal., **8**, 1906, (18-24).

Warren, R. 1. White Wagtails in Co. Mayo. Zoologist, London, **10**, 1906, (275).

Warren, R. 2. A new Irish breeding haunt of the Sandwich Terns. Zoologist, London, **10**, 1906, (277-278).

Warren, R. 3. Disappearance of many of our home-bred birds in Autumn. Zoologist, London, **10**, 1906, (459-462).

Wayne, Arthur T. 1. A contribution to the ornithology of South Carolina, chiefly the coast region. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (56-68).

Wayne, A. T. 2. Moults of the snowflake (*Passerina nivalis*). Auk, Cambridge, Mass., N. Ser., **23**, 1906, (102).

Wayne, A. T. 3. The American scoter, limpkin, and Ipswich sparrow in South Carolina. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (231-232).

Wayne, A. T. 4. The date of discovery of Swainson's warbler (*Helinaia swainsonii*). Auk, Cambridge, Mass., N. Ser., **23**, 1906, (227).

Weber, A. L'origine du feuillet moyen dans un blastoderme de canard sans embryon. Arch. zool., Paris, sér. 4, **5**, 1906, (Notes et revues, lxxxi-xc).

Weber, A. *vide* Ferret, P.

Weber, Ernst. Über ein Zentrum auf der Grosshirnrinde . . . bei Vögeln für die glatten Muskeln der Federn. Centralbl. Physiol., Berlin, **20**, 1906, (265).

Weber, J. A. **1.** The American egret (*Herodias egretta*) in the Catskill mountains. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (457).

Weber, J. A. **2.** Contents of the crop and gizzard of a young ruffed grouse (*Bonasa umbellus*). Ank, Cambridge, Mass., N. Ser., **23**, 1906, (459-460).

Wemer, Paul. **1.** Die Schlafstätten unserer Vögel. NatCab., Grünberg, **1906**, (1-4, 17-19, 33-35).

Wemer, P. **2.** Anpassung der Uferschwalbe. Umschau, Frankfurt a. M., **10**, 1906, (96).

Wemer, P. **3.** Vollziehung der Begattung unter Wasser bei der Gebirgsstelze. Zool. Beob., Frankfurt a. M., **47**, 1906, (180-181).

Wemer, P. **4.** Späte Bruten von Schwalben. Zool. Beob., Frankfurt a. M., **47**, 1906, (58-59).

Wemer, P. **5.** Eichhörnchenester als Schlafstätten der Meisen. Zool. Beob., Frankfurt a. M., **47**, 1906, (153-154).

Wemer, P. **6.** Ornithologische Notizen aus Westfalen. Zool. Beob., Frankfurt a. M., **47**, 1906, (212-216).

Wemer, P. **7.** Merkwürdige Nester und Neststandorte. Zs. Oologie, Berlin, **16**, 1906, (41-44).

Wemer, P. **8.** Verlorene Eier. Zs. Oologie, Berlin, **15**, 1906, (166-167).

Wemer, P. **9.** Waldkauzgelege. Zs. Oologie, Berlin, **16**, 1906, (117-119).

Wemer, P. **10.** Etwas über die Gefräßigkeit des Sperbers. Ornith. Rdsch., Berlin, **2**, 1906, (78).

Wemer, P. **11.** Aus der Kinderstube des Kuckucks. Zool. Beob., Frankfurt a. M., **47**, 1906, (238-241).

(N-9720 g)

Wemer, P. **12.** Anpassung der Uferschwalbe. NatCab., Grünberg, **1906**, (132-133).

Wemer, P. **13.** Ankunft und Fortzug der Mauersegler *Apus apus* (L.). Zool. Beob., Frankfurt a. M., **47**, 1906, (373-376).

Wemer, P. **14.** Verlorene und verschleppte Eier. Münster, Jahresber. ProvVer. Wiss., **34**, (1905-1906), 1906, (116-125).

Wemer, P. **15.** Ein Bastard zwischen der Nebelkrähe, *Corvus cornix* L., und der Rabenkrähe *Corvus corone* L. Münster, Jahresber. Prov. Ver. Wiss., **34**, (1905-1906), 1906, (113-115).

Wemer, P. **16.** Beiträge zur westfälischen Vogelfauna. Münster, Jahresber. ProvVer. Wiss., **34**, (1905-1906), 1906, (58-89).

Wemer, P. **17.** Zur Fortpflanzung des Kuckucks. Münster, Jahresber. ProvVer. Wiss., **34**, (1905-1906), 1906, (42).

Wemer, P. **18.** Unsere Rohrsänger. Münster, Jahresber. ProvVer. Wiss., **34**, (1905-1906), 1906, (90-101).

Wemer, P. **19.** Unsere Schwalben. Münster, Jahresber. ProvVer. Wiss., **34**, (1905-1906), 1906, (101-112).

Wesché, W. Notes on habits of some caged birds. Zoologist, London, **10**, 1906, (220-229).

Wessel, B. A. Ornithologische meddelelser fra Sydvaranger. [The ornithology of Syd-Varanger (Norway)]. Tromsø Mus. Aarsh., **27**, 1904, (1905-1906, (20-126, pl.).

Westell, W. P. Lesser Spotted Woodpecker and Winchat in Herts. Zoologist, London, **10**, 1906, (31).

Wheelock, Irene G. Nesting habits of the green heron. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (432-436, pl.).

Whistler, H. Variety of Common Wren (*Troglodytes paroulus*). Zoologist, London, **10**, 1906, (391-392).

Whiteaves, J. F. Some new Canadian records for Gyrfalcons. Ottawa Nat., **19**, 1906, (208-209).

Wiener, A. F. **1.** The size of aviaries and cages. Avicult. Mag., Brighton, **2**, **4**, 1906, (99-109).

Wiener, A. F. 2. Aviaries versus Cages. *Avicult. Mag.*, Brighton, 2, 4, 1906, (180-187).

Wiener, A. F. 3. Aviaries and cage-birds. *Avicult. Mag.*, Brighton, 2, 4, 1906, (244-250).

Wiener, A. F. 4. Obituary. *Avicult. Mag.*, Brighton, 2, 4, 1906, (314-315).

Wigger, B. Ein bisher noch nicht beobachtetes Organ unseres Wiedehopfes. *Münster, Jahresber. ProvVer. Wiss.*, 34, (1905-1906), 1906, (128-130).

Willard, B. G. Exceptional eggs of the bald eagle. *Auk, Cambridge, Mass., N. Ser.*, 23, 1906, (222).

Willett, G. 1. Eggs of the sage grouse. *Condor, Santa Clara, Cal.*, 8, 1906, (75).

Willett, G. 2. The southern California clapper rail breeding on fresh water. *Condor, Santa Clara, Cal.*, 8, 1906, (151).

Willett, G. 3. Peculiarities of ducks in nesting. *Condor, Santa Clara, Cal.*, 8, 1906, (75).

Williams, J. B. The yellow-crowned heron near Toronto. *Auk., Cambridge, Mass., N. Ser.*, 23, 1906, (220).

Williams, R. W., jun. Further notes on the birds of Leon county, Florida. *Auk, Cambridge, Mass., N. Ser.*, 23, 1906, (153-161).

Williams, W. J. Snowy Owl (*Nyctea scandiaca*) in Ireland. *Zoologist, London*, 10, 1906, (351).

Wilson, Burtis H. The birds of Scott county, Iowa. *Wilson Bull., Oberlin, Ohio*, 18, *N. Ser.*, 13, 1906, (1-11).

Wilson, W. Migratory notes from Aberdeen. *Zoologist, London*, 10, 1906, (196).

Winge, Herluf. 1. Fuglene ved de danske Fyr i 1905, 23de Aarsberetning om danske Fugle. [The birds at the Danish lighthouses in 1905, 23rd annual report.] *Kjöbenhavn, Natl. Medd.*, 1906, (187-251).

Winge, H. 2. Great Skua (*Stercorarius catarrhactes*) at the Faeroes. *Zoologist, London*, 10, 1906, (152).

Witherby, H. F. 1. On filo-plumes in a species of Bunting from Somali Land. *London, Bull. Brit. Ornith. Cl.*, 16, 1906, (63-64).

Witherby, H. F. 2. On a new species of Dipper from Persia. *London, Bull. Ornith. Cl.*, 16, 1906, (71-72).

Wood, J. Claire. 1. Wayne county, Michigan, notes. *Auk, Cambridge, Mass., N. Ser.*, 23, 1906, (344).

Wood, J. C. 2. The white-rumped sandpiper in Wayne co., Michigan. *Auk, Cambridge, Mass., N. Ser.*, 23, 1906, (458-459).

Wood, J. C. 3. Autumn warbler hunting [in Michigan]. *Auk, Cambridge, Mass., N. Ser.*, 23, 1906, (20-25).

Wood, Norman A. Twenty-five years of bird migration at Ann Arbor, Michigan. *Lansing, Rep. Mich. Acad. Sci.*, 8, 1906, (151-156).

Wood, N. A., Peet, Max M. and McCreary, O[tt]o. Annotated list of the birds of the Porcupine mountains and Isle Royale, Michigan. *Michigan, Rep. Geol. Surv., Lansing*, 1905, 1906, (113-127).

Woodruff, E. Seymour. 1. The prairie horned lark, a summer resident in Connecticut. *Auk, Cambridge, Mass., N. Ser.*, 23, 1906, (461).

Woodruff, E. S. 2. The Cape May warbler in Litchfield county, Conn. *Auk, Cambridge, Mass., N. Ser.*, 23, 1906, (105).

Woodruff, E. Seymour, jun. Probable breeding of the white throated sparrow in Connecticut. *Auk, Cambridge, Mass., N. Ser.*, 23, 1906, (461).

Workman, W. H. 1. Greenland Falcon (*Falco Candicans*) in Co. Antrim. *Zoologist, London*, 10, 1906, (112-113).

Workman, W. H. 2. Occurrence of the Glossy Ibis (*Plegadis falcinellus*) in Ireland. *Avicult. Mag., Brighton*, 2, 4, 1906, (363).

Wormald, H. The Tufted Duck (*Fuligula cristata*). *Avicult. Mag., Brighton*, 2, 4, 1906, (280-212, tab.).

Worthen, Chas. K. Swainson's warbler in Nebraska. *Auk, Cambridge, Mass., N. Ser.*, 23, 1906, (227).

Wright, W. C. Glossy ibis (*Plegadis falcinellus*). *Zoologist, London*, 10, 1906, (393).

Wünn, Hermann. Vom Vogelzug am Gardasee. *Gefied. Welt, Magdeburg*, 35, 1906, (199).

Wyman, Carl. Wissenschaftliche Ergebnisse der Schwedischen Südpolar-Expedition. **3.**

Yerbury, J. W. Migration of Swifts and Swallows in Devonshire. London, Bull. Brit. Ornith. Cl., **16**, 1906, (96-97).

Zagaja, Józef. Kury olbrzymie. [Poules gigantesques.] Hod. drob., Łwów, **7**, 1906, (25-26, 53-54, 73-74).

[**Zarudny, N. A. u. Koreiev, B. P.**] Зарудный, Н. А. и Кореевъ, Б. П. Орнитологическая фауна Семиреченского Края. [Die ornithologische Fauna des Semirëčje-Gebiets.] Mat. faun. flor. Ross., Moskva, Zool. **7**, 1906, (146-247).

Zarudny, N. A. *vide etiam* Sarudny.

Zimmermann, E. R. Beiträge zum Vogelzug in der Umgebung Mannheims. Mannheim, Jahresber. Ver. Natk., **71-72**, (1904-1905), 1906, (73-92).

Zimmermann, Rud. Zur Nahrung des Grünspechtes. Ornith. Rdsch., Berlin **2**, 1906, (86-87).

Zimmermann, Rud. und Heyder, R. Brutnotizen zur Rochlitzer Ornith. Zs. Oologie, Berlin, **16**, 1906, (105-110, 124-127, 135-139).

[**Žitkov, B. M. u. Buturlin, S. A.**] Житковъ, Б. М. и Бутурлинъ, С. А. Материалы для орнитофауны Симбирской губернии. [Beiträge zur Ornithofauna des Gouv. Simbirsk]. St. Peterburg, Zap. Russ. Geogr. Obsč., **41** 2, 1906, (2+1-275).

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Oustalet, E. Liste des ouvrages et mémoires. Nouv. Arch. muséum, Paris, (4), **8**, Bull. (1-18).

Twenty-third congress of the American ornithologists' union. Auk, Cambridge, Mass., N. Ser., **23**, 1906, (92-96).

Annual report of the National association of Audubon societies for 1906. Bird Lore, Harrisburg, Pa., **8**, 1906, (224-284).

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Wilsonia canadensis. Amer. Ornith., Worcester, Mass., 6, 1906, (117–118).

Astragalinus tristis. Amer. Ornith., Worcester, Mass., 6, 1906, (26-30).

Ectopistes migratorius. Amer. Ornith., Worcester, Mass., 6, 1906, (122-124).

Sphyrapicus varius. Amer. Ornith., Worcester, Mass., 6, 1906, (38-39).

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Southeastern Colorado; **Warren**, Edward R., 2.

Colorado, *Contopus virens*; **Warren**, Edward R., 1.

Scott county, Iowa; **Wilson**, Burtis H.

Helinaia swainsonii in Nebraska; **Worthen**.

North American, Sonoran. gl

Sierra de Antonez, Sonora; **Thayer** and **Bangs**, 2.

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Revision der Spix'schen Typen brasilianischer Vögel, HELLMAYR, München, Abh. Ak. Wiss., math.-phys. Kl., 22, (561-726, mit 2 Taf.).

ORDER STRUTHIONIFORMES.

L'Autruche dans la civilisation égyptienne, BOUSSAC, Nature, Paris, 1906, (2^e sem.), (194-199, av. fig.).

Struthio australis in Cape Colony. DOUGLAS, London, Ibis, **1905**, (46-52); notes on, DOUGLAS, London Rep. Brit. Ass. special vols., **3**, (49-53).

ORDER CASUARIIFORMES.

Dromaeus nova hollandiae, supposed migration, ROGERS, Emu, **6**, (13, 14).

ORDER PTERYGIFORMES.

Apteryx, The olfactory sense, Benham, Nature, London, **74**, (222-223).

ORDER TINAMIFORMES.

Le Tinamou, BLASI, Aviculteur, Paris, **25**, (66-69, 77-78).

Nothura maculosa peruviana subsp. n. Santa Ana, BERLEPSCH and STOLZMANN, J. Ornith., **13**, (101).

ORDER GALLIFORMES.

Albinisme chez la Perdrix grise et chez le Faisan, ANNE, Feuille jeunes natural., Paris, **36**, (183).

Développement asymétrique d'un crâne de Poulet, RASPAIL, Paris, Bul. soc. zool., **29**, 1904, (60-63, av. fig.).

Arboricola graydoni sp. n. Sandakan, SHARPE and CHUBB, Ornith., **13**, (133, 134). — *A. batemani* sp. n. Chin Hills, OGILVIE-GRANT, Bull. Brit. Ornith. Cl., **16**, (68).

Argusianus argus, Warnfärbung, FAUSSEK, St. Petersburg, Zap. Russ. Geogr. Obsč., **27**, (I + I-192 + 1, mit 64 Abt. i. T. u. 4 Taf.).

Bonasa umbellus, HOWE, Bird Lore, Harrisburg, Pa., **6**, 1904, (81-85); Drumming-habit, HODGE, Amer. Ornith., **6**, (99-102).

Calophasis mikado sp. n. Formosa, OGILVIE-GRANT, Bull. Brit. Ornith. Cl., **16**, (122, 123).

Cathetus lathamii, breeding in confinement; LE SOUËF, Avicult. Mag., Brighton, (2), **4**, (240).

Centrocerus urophasianus eggs, WILLET, Condor, **8**, 1906, (75).

Colinus virginianus, notes on the species; SETH-SMITH, Avicult. Mag., Brighton, (2), **4**, (164-167).

Coturnix, review of the species with notes on management; SETH-SMITH, Avicult. Mag., Brighton, (2), **5**, (23-33, tab.).

Coturnix coturnix, winter range, BOERNER, Ornith. Monatschr., **31**, (311-312); from Usti-Kamenogorsk, BUTURLIN, Psov. i ružejn. ochota, **12**, (318).

Francolinus orientalis bogdanovi subsp. n. Mesopotamia, SARUDNY, Ornith. Monatsber., **14**, (151, 152). — *F. castaneicollis gofannus* = *F. c. bottegii*; Eggs described, NEUMANN, J. Ornith., **54**, (299, 300).

Gallus domesticus, Morphologie, TARNANI, Novo - Aleksandrija, Zap. Inst. selisk. choz., **18**, (106-134); Experimental Embryology, TUR, Varšava, Trd. Obsč. jest., **15**, (1-11); Embryonaler Einschluss, TUR, Varšava, Trd. Obsč. jest., **15**, (1-11); abnormal embryo: TUR, Paris, Bul. Soc. philom., **1906**, (177-192); abnormal eggs, SCHMITZ, Zs. Oologie, Berlin, **16**, (38-41); Histology, PANGALO, Moskva, Ann. Inst. agron., **12**, (15-19). — *G. lafayetii*, hybridization experiments; THOMAS, Spolia Zeylan, **4**, (19-28).

Polyplectron Katsumatae sp. n. Hainan, ROTHSCHILD, Bull. Brit. Ornith. Cl., **16**, (111, 112).

Gennaeus albicristatus, nesting at above 6,000 feet, RATTRAY, Bombay, J. Nat. Hist. Soc., **16**, 1905, (663). — *G. prendergasti*, *macdonaldi*, (10), *batemani* (11), Burma, OATES, J. Bombay Nat. Hist. Soc., **17**; *G. annamensis*, Annam, OGILVIE-GRANT, Bull. Brit. Ornith. Cl., **19**, (13, 14): spp. n.

(*Guttera*, revision of the genus, *G. barbata*, Madagascar, *lividicollis*, Zambesi, spp. n., GINGI, Bologna, Mem. Acc. sc., **2**, 1905, (189-197, 1 tav.).)

Lagopus leucurus, Nesting habits in Colorado, LEWIS, Bird Lore, Harrisburg, Pa., **6**, 1904, (117-121).

Lophortyx catalinensis sp. n. Catalina Islands, GRINNELL, Auk, **23**, (262-265).

Lyrurus tetrix × *Phasianus colchicus*. PYCRAFT, London, Bull. Brit. Ornith. Cl., **16**, (54, 55); MILLAIS, T.c. (55, 56); JOURDAIN, T.c. (76).

Megapodius duperreyi, flight of young, BANFIELD, EMU, **6**, (15); Chicks deserted, CAMPBELL, T.C. (15).

Meleagris gallopavo, Histology of wattles, PANGALO, Moskva, Ann. Instit. agron., **12**, (15-19).

Numida ptilorhyncha macroceras, Supposed Eggs, NEUMANN, J. Ornith., **54**, (299).

Ortalis squamata (Less.), HELLMAYR, Nov. Zool., **13**, (350-351).

Perdix cinerea var., KNOTEK, Wild und Hund, Berlin, **12**, 1906, (186).—*P. perdix canescens* **subsp. n.** Transcaucasia, BUTURLIN, Ibis, London, **1906**, (411, 412).

Phasianus, Acclimatisation in Norway, HERLOFSON, Kristiania, Norsk Jægerf. Tidssk., **35**, (233-235).—*P. colchicus* in Bavaria, POCCHI, Fasan in Bayern, München, (xv+225). Svo.—*P. süchshanensis* **sp. n.** Highlands of Western China, BIANCHI, St. Petersburg, Bull. Ac. Sc., **24**, (83-92).

Pipile, Key to the species, HELLMAYR, Nov. Zool., **13**, (49).

Tetrao tetrix, Eigenthümlichkeiten des Balzens, (Russ.) UŠAKOV, Psov. i ružejn. ochota, Moskva, **12**, (353-351); Histologie der nackten Stelle über dem Auge, PANGALO, Moskva, Ann. Inst. agron., **12**, (15-19); Aufzucht in der Gefangenschaft, MOŠNIN, Psov. i ružejn. ochota, **11**, (487-488, 503-506).—*T. tetrix* × *P. colchicus*, FRITZE, Hannover, Jahrb. Prov. Mus., **1901-1904**, (26-28, mit 1 Taf.).—*T. urogallus*, note on its occurrence in Ayrshire, GLADSTONE, Ann. Scot. Nat. Hist., **1906**, (116); in Renfrewshire, CAMPBELL, T.C. (186).—*T. urogallus lugens* figure, LÖNNBERG, Ibis, London, **1906**, (317-328, pl. xvi).—*T. u. lugens* Lönnberg is *T. urogallus* with the genital organs injured, LORENZ, Psov. i ružejn. ochota, **12**, (354-355).—*T. medius* in Westphalia, KOCH, Münster, Jahresber. ProvVer. Wiss., **34**, (132).

ORDER PTEROCLIDIFORMES.

Pterocles alchata bogdanowi **subsp. n.** S.W. Persia; Notes on *P. a. severzovi*; SARUDNY and LOUDON, Ornith. Monatsber., **14**, (132-134).

Pteroclorus pyrenaicus, notes on in confinement, MEADE-WALDO, Avicult. Mag., Brighton, (2), **4**, (219-222, tab.).

ORDER COLUMBIFORMES.

Alectrenas minor, NICOLL, Ibis, London, **1906**, (700, 701).

Alectrenas nitidissima, the supposed extinction, RENSCHAW, Zoologist, London, **10**, (49-52).

Calopelia puella, in captivity, BUTLER, Avicult. Mag., Brighton, (2), **4**, (251-254, tab.).

Carpophaga oenea, Eggs, OSMASTON, (488) Bombay, J. Nat. Hist. Soc., **17**.

Chalcophaps chrysochlora, breeding in confinement, notes on the species, SETH-SMITH, Avicult. Mag., Brighton, 2, **4**, (277-280).

Columba pallida, Lath. = *Lopholaelmus antarcticus*, SHARPE, Hist. Coll. Brit. Mus. **2**, (145).—*C. domestica*, notes on, TRENDLENBURG, Arch. Anat. Physiol., Physiol. Abt., **1906**, (1-126).—*C. oenas*, HÖCKE, Natur u. Haus, Dresden, **15**, (38-40).—*C. turtur*, notes on, CASTER, Zool. Beob., Frankfurt a. M., **47**, 1906, (53-55); Erwiderung v. Wilh. Schuster, T.C. (201-202); Weiteres dazu v. Paul Wemer, T.C. (302-303).—*C. livia gaddi* **subsp. n.** Karun River, Persia, SARUDNY and LOUDON, Ornith. Monatsber. **14**, (133, 152).—*C. livia korejewi* **subsp. n.** Semiretsch district Turkestan. iid. T.C. (133, 134).

Columbigallina passerina exigua **subsp. n.**, Mona Island, Porto Rico, RILEY, Washington, D.C., Nation. Mus. Proc., **29**, (171-172).

Ectopistes macrurus, nomenclature, BANGS, Washington, D.C. Proc. Biol. Soc. **19**, (43, 44).—*E. migratorius*, Amer. Ornith., Worcester, Mass., **6**, (122-124).

Geopelia tranquilla, breeding in captivity, ASTLEY, Avicult. Mag., Brighton, 2, **5**, (58-59).

Geotrygon montana, breeding of the species in captivity, INGRAM, Avicult. Mag., Brighton, 2, **4**, (357, 358).

Goura coronata var., NORTH, Sydney, N.S.W., Rec. Austr. Mus., **6**, (230).

Haplopelia hypoleuca **sp. n.** Anno Bom. SALVADORI, Torino, Mem. Acc. sc., **53**, 1903, (96, 97).

Henicophaps foersteri **sp. n.** New Britain. ROTHSCILD and HARTERT, Bull., Brit. Ornith. Cl., **19**, (28).

Histiophaps histrionica in Central Queensland, FORD, Emu, **5**, (158); Habits, FLETCHER, Emu, **5**, (229, 230).

Leptoptila insularis, Richmond = *L. verreauxi*, Bp., HELLMAYR, Nov. Zool., **32**, (47).

Lophophaps leucogaster, in captivity. SETH-SMITH, Avicult. Mag., Brighton, **2**, **5**, (51-54, tab.).

Myristicivora spilorrhoa breeding on the Frankland Islands N. Queensland, SMITH, Emu, **5**, (210).

Ocyphaps lophotes nesting in confinement, ROBERTS, Emu, **5**, (159).

Phaps chalcoptera nesting in confinement, ROBERTS, *l.c.*

Ptilopus minimus **sp. n.** N. Queensland, CAMPBELL, Emu, **5**, (155, 198, 199).

Sphenocercus robinsoni **sp. n.** Malay Peninsula, OGILVIE-GRANT. London, Bull. Brit. Ornith. Cl., **19**, (12).

Vinago waalia, Egg described, NEUMANN, J. Ornith., **1906**, (299).

Turtur decaocta xanthocyclus **subsp. n.** Burma, NEWMAN, Avicult. Mag., Brighton, **2**, **4**, (321-326, tab.).—*T. assumptionis* **sp. n.** Assumption Isl., NICOLL, Bull. Brit. Ornith. Cl., **16**, (105, 106): Notes on habits, *id.* Ibis, **1906**, (693, 694).

Tympanistria tympanistria, breeding in confinement, BUTLER, Avicult. Mag., Brighton, **2**, **4**, (307-310).

Zenaida maculata breeding on Mexiana Island, HAGMANN, Ornith. Monatsber., **14**, (110).

Zenaidura carolinensis, nomenclature, BANGS, Washington, D.C., Proc. Biol. Soc., **10**, (43, 44).

ORDER RALLIFORMES.

Oreiscus melanophaeus, notes, ANGELINI, Boll. Soc. zool. ital., **6**, (96-99).

Eulabeornis castaneiventris sharpei **subsp. n.** Aru Isl., ROTHSCILD, Bull. Brit. Ornith. Cl., **16**, (81).

Microtribonyx ventralis in Central Queensland, FORD, Emu, **5**, (158).

Fulica atra, albinisme, PELLEGRIN, Paris, Bul. soc. zool., **31**, (62-64).

Gallinula chloropus, habits. GEYR VON SCHWEPPENBURG, Ornith. Monatsber.,

14, (41-46); habits, MEIKLEJOHN, Zoologist, **10**, (76).—*G. galeata*, nesting on Long Island, BRAISLIN, Auk, **23**, (189-194).

†*Gallinuloides prentici* **sp. n.**, LOOMIS, Amer. J. Sci., **22**, (181).

Podica jacobii **sp. n.** Kamerun, REICHENOW, J. Ornith., **54**, (325).

Porphyrio porphyrio, Eggs described, NEUMANN, J. Ornith., **54**, (298).

Porzana bailloni, near Stockport, COWARD, Zoologist, **10**, (395, 396).

Rallus longirostris cypereti, Tacz., from West Ecuador and N.W. Peru; notes on allied subspecies; HELLMAYR, Nov. Zool., **13**, (52).—*R. abbotti*, NICOLL, Ibis, **1906**, (694, 695).—*R. levipes*, breeding on fresh water, WILLETT, Condor, **8**, (151).

Rougetius rougeti, Eggs described, NEUMANN, J. Ornith., **54**, (298).

ORDER PODICIPEDIFORMES.

Podiceps, Notes on the Indian species, DALGLIESH, Avicult. Mag., Brighton, **2**, **5**, (65-72, tab.).—*P. fluriatilis*, notes on, DALGLIESH, T. c. (282-284) and OLDHAM, T. c. (351-353); number of eggs, DALGLIESH, T. c. (396).—*P. nigricollis*, breeding in Great Britain, APLIN, Zoologist, **10**, (315).—*P. cristatus*, breeding in Essex, TUCK, Zoologist, **10**, (315).

ORDER COLYMBIFORMES.

Colymbus arcticus, at Woburn, BEDFORD, [Duchess of], Zoologist, **10**, (36).—*C. adamsi* in Toscana, ARRIGHI (GRIFFOLI, Boll. Soc. zool. ital., Ser. 2, **6**, (83-84).—*C. septentrionalis*, Intestines, CORTI, Milano, Atti Soc. ital. sc. nat., **45**, (73-99).

ORDER SPHENISCIFORMES.

Penguins of the South Orkney islands, CLARKE, Nature, London, **73**, (570-571).

The *Penguins*, LUCAS, Science, New York, N.Y., **24**, (316, 317).

Aptenodytes forsteri, probably occurs in the South Orkney Islands, CLARKE, Ibis, **1904**, (166).

†*Anthropornis* **gen. n.**, Seymour Island Antarctic Seas, WYMAN, Wiss. Ergebn. Schwed. Südpolar-Exped., **3**.

†*Argyrodypetes* gen. n., *A. microtar-sus* sp. n., Seymour island, Patagonia, AMEGHINO, An. Mus., Buenos Aires, 6, (121-123).

Arthrodytes gen. n., type *A. grandis*, AMEGHINO, T.c., (143-144).

Catarrhaetes chrysolophus in the South Orkney Islands, CLARKE, Ibis, 1906, (164-166).

†*Delphinornis* gen. n., Seymour Island, Antarctic Seas, WYMAN, Wiss. Ergebn. Schwed. Südpolar-Exped., 3.

†*Eospheniscus* gen. n., Seymour Island, Antarctic Seas, WYMAN, Wiss. Ergebn. Schwed. Südpolar-Exped., 3.

Eudyptula minor, downy plumage, McClymont, Emu, 5, (162).

†*Iethyopteryx*, gen. n., type. Seymour Island, Antarctic Seas, WYMAN, Wiss. Ergebn. Schwed. Südpolar-Exped., 3.

Isotremornis gen. n., type *I. nordenskjoldi* sp. n. Seymour Island, AMEGHINO, An. Mus., Buenos Aires, 6, (134-138).

†*Metancylornis* gen. n., type *M. curtus* (Amegh), AMEGHINO, An. Mus., Buenos Aires, ser. 3, 6, (129).

†*Neeulus* gen. n., *N. rothi* sp. n., Seymour island, Patagonia, AMEGHINO, An. Mus., Buenos Aires, 3 ser., 6, (127-128).

†*Palaeoapterodytes* nom. nov. pro *Apterodytes*, AMEGHINO (nec Scop.), id. T.c. (120).

†*Palaeospheniscus interruptus* sp. n., Seymour island, AMEGHINO, An. Mus., Buenos Aires, 3 ser., 6, (104).—*P. medianus*, *P. planus*, *P. rothi*, *P. intermedius*, *P. affinis* spp. n., id. T.c. (108-114).

†*Paraspheniscus* gen. n., type *P. bergi* (Moreno and Mercerat), AMEGHINO, An. Mus., Buenos Aires, 3 ser., 6, (115).

†*Perispheniscus* gen. n., type *P. wimani* sp. n., Seymour island, Patagonia, AMEGHINO, An. Mus., Buenos Aires, 3 ser., 6, (117-120).

†*Pseudospheniscus* gen. n., type *P. interplanus* sp. n., Seymour island, Patagonia, AMEGHINO, An. Mus., Buenos Aires, 3 ser., 6, (123-124).—*P. concavus* sp. n., l.c. id. T.c. (124-125).

Pygoscelis antarctica, *adeliæ*, *papua*, breeding in the South Orkney Islands, nesting habits described, CLARKE, Ibis, London, 1906, (152-164, pls. iv-ix).

Treleudytes, gen. n., type *T. crassa* sp. n., Seymour Island, AMEGHINO, An. Mus., Buenos Aires, 6, (156-158).

ORDER PROCELLARIIFORMES.

Daption capensis, nesting in the South Orkney Islands, EAGLE CLARKE, Ibis, 1906, (174-177, pl. x, fig. 1).

Diomedea platei, REICHENOW, Ornith. Monatsber., 14, (51).—*D. immutabilis* in Laysan, BOYER, Nature, Paris, 34, (387-389).

Fregetta melanogaster nesting on the South Orkney Islands, CLARKE, Ibis, 1906, (168, 169).

Fulmarus glacialis, nesting, HARVIE-BROWN, Ann. Scot. Nat. Hist., 1906, (239, 240); at Whalsay and Yell, Shetland, TULLOCH, T.c. (240); on the coast of Normandy, MAGAUD d'AUBUSSON, Naturaliste, Paris, 28, (7-8).

Oceanites oceanicus, nesting in the South Orkney Islands, CLARKE, Ibis, 1906, (166-168, pl. x, fig. 2).

Oceanodroma leucorhoa in Massachusetts, THAYER, Auk, Cambridge, Mass., 23, (97); in Co. Fermanagh, LANGHAM, Irish Nat., 15, (45); in Mecklenburg, HELD, Ornith. Monatschr., Gera, 31, (180-182).—*O. castro* in Kent, TICEHURST, Bull. Brit. Ornith. Cl., 19, (20).—*O. beali* Alaska, *O. beldingi* Oregon, EMERSON, (54), Condor, 8; spp. n.

Ossifraga gigantea, nesting on the South Orkney Islands, CLARKE, Ibis, 1906, (172, 173, pl. xi, fig. 2).

Ostrelata wilsoni, Sharpe, = *O. arminjoniana*, Gigl. and Salvad, NICOLL, Ibis, London, 1906, (671, 672).—*O. arminjoniana*, *O. wilsoni* and *O. trinitatis*, Notes, NICOLL, Bull. Brit. Ornith. Cl., 16, (102, 103).

Pogodroma nivea nesting on the South Orkney Islands, CLARKE, Ibis, 1906, (170-172, pl. iii, fig. 1, pl. xi, fig. 1).

Pelecanoides dacunhae sp. n. Tristan da Cunha. NICOLL, Bull. Brit. Ornith. Club, 16, (103).

Pharvetria cornicoides in the Antarctic Seas, CLARKE, Ibis, 1906, (177).

Prion banksi in the South Orkney Islands, CLARKE, Ibis, 1906, (177).

Puffinus kuhli in Sussex, Remarks on *P. flavirostris* and *P. gravis*, BUTTERFIELD, Bull. Brit. Ornith. Cl., 16, (71).—*P. gravis* off Tristan da Cunha, probably breeding there, NICOLL, Bull. Brit. Ornith. Cl., 16, (103, 104).—*P. gravis*, at Lochbroom, HENDERSON, Ann. Scot. Nat. Hist., 1906, (114-115).—*Puffinus tenuirostris* on Phillip Island, CAMPBELL, Emu, 6, (16).

Thalassogeron layardi, Salvin may be *T. caufus* (Gould). SCLATER, W. L., Ibis, 1906, (212, 213).

ORDER LARIFORMES.

Pacific coast Gulls, ANTHONY, Auk, Cambridge, Mass., 23, (129-137).

Status and plumages of the white-winged *Larus*; DWIGHT, Auk, Cambridge, Mass., 23, (26-43, 1 pl.).

Laridae.

Möwen als Nachtvögel; SCHUSTER, W., Zool. Beob., Frankfurt a. M., 47, (79).

Neues aus dem Mövenstaat, SCHUSTER, W., Ornith. Rdsch., Berlin, Jg., 2, (49-51).

Notes *Larus argentatus* and *Sterna caspia*, with bibliography; WARD, Milwaukee, Bull. Wis. Nat. Hist. Soc., 4, (113-134, pl.).

Gelochelidon anglica breeding on Mexiana Island, HAGMANN, Ornith. Monatsber., 14, (106, 107).

Gygis erawfordi sp. n. S. Trinidad Island, NICOLL, Bull. Brit. Ornith. Cl., 16, (102); further notes on, *id.* Ibis, 1906, (669, 670).

Hydrochelidon nigra surinamensis, habits, SETON and CHAPMAN, Bird Lore, Harrisburg, Pa., 6, 1904, (1-5).

Larus kumlien from Cumberland Inlet, HARVIE-BROWN, Ibis, 1906, (388-389).—*L. argentatus*, habits, COLGAN, Irish Nat., 15, (14-16).—*L. argentatus* on Lake Superior, CHRISTY and MCCLINTOCK, Bird Lore, Harrisburg, Pa., 6, 1904,

(86-88).—*L. dominicanus* nesting on the South Orkney Islands, CLARKE, Ibis, 1906, (178-179).—*L. marinus* breeding on North Devon Island, 75° N. Lat., EIFRIG, Auk, 23. — *L. ridibundus* in Switzerland, FISCHER-SIGWART, Zool. Beob., 47, (202-212, 229-238); variation in colour of eggs, THIENEMANN. Königsberg, Schr. physik. Ges., 46, (173, 174).

Megalestris antarctica breeding in the South Orkney Islands, EAGLE CLARKE, Ibis, 1906, (180-182).—*M. maccormicki* in the South Orkney Islands, *id.* T.c. (182).—*M. catarrhactes*, BOXBERGER, Kosmos, Stuttgart, 3, (336-370).

[*Nannocnus ijimai* sp. n. Japan, OGAWA, Annot. Zool., Jap. 5, 1905, (215-216, pl. xi).]

Rhodostethia rosea breeding in the Kolymá Delta, E. Siberia, BUTURLIN, Ibis, 1906, (131-139, 333-337); in the Mediterranean, MARTORELLI, T. c. (395); description of the plumages, BUTURLIN, T.c. (664-666); OTTOSON, Zs. Oologie, 16, (133) and DRESSER, Bull. Brit. Ornith. Cl., 16, (97); eggs figured, DRESSER, Ibis, 1906, (610, 611, pl. xx).

Stereorarius catarrhactes at the Færoes, WINGE, Zoologist, 10, (152).—*S. crepidatus*, at Tanera island, Scotland: HENDERSON, Ann. Scot. Nat. Hist., 1906, (115); at Kincardine-on-Forth: HARVIE-BROWN, T.c. (118); BONAR, T.c. (186, 187).—*S. parasiticus*, in Argyll, BISSHOFF, Ann. Scot. Nat. Hist., 1906, (186); on Clare Island, BARRINGTON, Irish Nat., 15, (193).—*S. pomatorhinus* from Loop Head, Co. Clare, BARRINGTON, *l.c.* (193).

Sterna minuta from the Irtysch district, BUTURLIN, Psov. i ruzejn. ochota, 12, (318).—*S. arctica* in 74° S. Lat., CLARKE, Bull. Brit. Ornith. Cl., 19, (18).—*S. hirundinaea* nesting on the South Orkney Islands, CLARKE, 1906, (177, 178).—*S. hirundo* and *S. dougalli*, notes on; JONES, Wilson Bull., Oberlin, Ohio, 18, (35-47).—*Sterna macroptera* is the winter plumage of *S. fluvialis*, NEUMANN, J. Ornith., 54, (558).—*S. cantiaea*, breeding on Lough Conn., WARREN, Zoologist, 10, (277, 278); breeding in Co. Down, PATTERSON, Irish Nat., 15, (192).—*S. nilotica*, Nesting, BESSERER, München, Verh. ornith. Ges., 6, (123-132), and FISCHER, Zs. Oologie, Berlin, 16, (97, 98).

Xema sabinei, note on, PETIT, Paris, Bul. Soc. zool., **28**, 1903, (196).

ORDER CHARADRIIFORMES.

Aegialitis pyrrhothorax vom Issyk-Kul, BUTURLIN, Psov. i ružejn. ochota, **12**, (318).—*A. hiaticola*, habits, CURTIS, Dorchester, Proc. Dorset. Nat. Hist. F. Cl., **27**, (189–213, pls. 4–15).

Arocetta recurvirostra, near Rye, ALEXANDER, Zoologist, **10**, (152).

Belonopterus cayennensis, Eggs described, HAGMANN, Ornith. Monatsber., **14**, (106).

Burhinus grallarius, habits, CLELAND, Emu, **5**, (191, 192).

Charadrius fultus aus Tomsk und Usti-Kamenogorsk, BUTURLIN, Psov. i ružejn. ochota, Moskva, **12**, (318).

Chettusia gregaria in the Campagna, PATRIZI MONTORO, Boll. Soc. zool. ital., Ser. 2, **6**, (70–71).

Chionis alba, nesting habits in the South Orkney Islands, CLARKE, Ibis, **1906**, (182–184, pls. iii., fig. 2, xii, xiii, fig. 1).

Ereunetes occidentalis Lawr. = *E. mauri* Gundlach (ex Bp.), ALLEN, Ank, **23**, (97, 98).

Gallinago gallinago, weights of, HALDANE, Ann. Scot. Nat. Hist., **1906**, (53, 54).—*G. megala*, from Barnaul, BUTURLIN, Psov. i ružejn. ochota, Moskva, **12**, (318).—*G. major*, occurrence in Orkney, BELL, Ann. Scot. Nat. Hist., **1906**, (54).—*G. major* and *G. gallinula*, breeding in Switzerland, FATTO, Ibis, **1906**, (218).—*G. gallinula*, supposed breeding in Shetland, HALDANE, Ann. Scot. Nat. Hist., **1906**, (239).

Gallinago delicata, nesting of, KELLS, Ottawa Nat., **20**, (53–55).

Haematopus finschi distinct from *H. longirostris*, Remarks on, and on *H. reischeki*, MARTENS, Ornith. Monatsber., **14**, (90–93).

Helodromus solitarius, eggs of, GARRETT, Ottawa Nat., **20**, (50).

Limonites, Kaup = *Pisobia* Billberg, LÖNNBERG, J. Ornith., **54**, (532).

Machetes pugnax, breeding habits, SELOUS, Zoologist, **10**, (201–219, 285–

294, 419–428); nesting in Yorkshire. NELSON, Ibis, **1906**, (735, 736).

Numenius tenuirostris, from Barnaul, BUTURLIN, Psov. i ružejn. ochota, **12**, (318).

Otis tarda, Fortpflanzung in der Gefangenschaft, (Russ.), ČEREPOVA, V. Psov. i ružejn. ochota, Moskva, **9**, 1905, (128–137); **11**, 1905, (455–456); in Prussia, BRAUN, Königsberg, Schr. physik. Ges., **46**, (193).—*O. tetrax* in Prussia and Silesia, KOLLIBAY, Ornith. Monatsber., **14**, (2) Wrongly identified, id. T.c. (97): in Bavaria. BESSERER, Bayr. Forstztg, Nürnberg, **13**, (1–5); breeding in N.E. Germany, QUISTORP, Ornith. Monatsber., **14**, (31).

Paroncella pugnax in Spanish Guiana, West Indies and New England, PALMER, Auk, **23**, (98–99).

Prosobonia ellisi sp. n. Eimeo Island, SHARPE, Bull. Brit. Ornith. Cl., **16**, (86).

Scolopax, LINDNER, D. Jägerztg, Neudamm, **47**, (362–364).—*S. rusticula*, weights of, HALDANE, Ann. Scot. Nat. Hist., **1906**, (53–54); nesting habits, RATTRAY, Bombay, J. Nat. Hist. Soc., **16**, 1905, (663); Albino, PAČOSKIJ, Psov i ružejn. ochota, Moskva, **12**, (40); carrying its young, RZEHAČ, Ornith. Monatschr., Gera, **31**, (506–508); breeding in N. Germany, RÜDIGER, Zs. Oologie, **16**, (45–46).

Totanus melanoleucus in the Scilly Isles, DORRIEN-SMITH, Bull. Brit. Ornith. Cl. **19**, (7) and GRANT, Zoologist, **10**, (470).—*T. calidris*, in Bedfordshire, BEDFORD [Duchess of], T.c. (169).—*T. ochropus* on Fair Island, CLARKE, Ann. Scot. Nat. Hist., **1906**, (76, 77).

Tringa [potius *Rhyacophilus*] *glareola* in Australia, MATTINGLEY, Emu, **5**, (156, 157).—*T. canutus* in Cheshire, COWARD, Zoologist, **10**, (76, 77); near Salisbury, BANKES, T.c. (152).—*T. alpina*, nesting in Lancashire, JACKSON, T.c. (21–25).

ORDER GRUIFORMES.

Anthropoides virgo in captivity, RHEINEN, Ornith. Monatsber., **14**, (96, 97).

Balearica chrysopelargus, REY, Zs. Oologie, **16**, (93–94, 99, 119).

Grus cinerea, migration, SALZMANN, Ornith. Monatschr., Gera, **31**, (253-254).—*G. nigricollis*, eggs described, DRESSER, Ibis, **1906**, (347).—*G. niediecki* sp. n. E. Siberia, REICHENOW, Ornith. Monatsber., **14**, (190).

ORDER ARDEIFORMES.

Hérons at home, *Nycticorax naevius* and *Ardea herodias*; FINLEY, Condor, **8**, (35-40 pl.).

Ardea melanocephala, eggs described, NEUMANN, J. Ornith., **54**, (298, 299).—*A. cinerea*, its speed, MAXWELL, Ann. Scot. Nat. Hist., **1906**, (52-53).—*A. herodias*, nesting in Montana, CAMERON, Auk, **23**, (252-262, pl.).—*A. alba*, in Albania, LODGE, Zoologist, **10**, (441-444, pl. vi).

Ardetta Gray = *Ixobrychus* Billberg, LÖNNBERG, J. Ornith., **54**, (533).

Butorides virescens, nesting habits, WHELOCK, Auk, **23**, (432-436 pl.).—*B. crawfordi* sp. n., Assumption Isl. Indian Ocean, NICOLL, Bull. Brit. Ornith. Cl., **16**, (105), figured, Ibis, **1906**, (696, pl. xxi).

Carphibis spinicollis and *Ibis molucca*, notes on nesting, D'OMBRAIN, Emu, **5**, (185-189, pl. xiv).

Ciconia alba in Lorraine in 1902 et 1903, HECHT, E., Paris, Bull. soc. zool., **28**, 1903, (159-164, av. fig.) in 1904, op. cit. **29**, (164-167); in East Prussia, BRAUN, Königsberg, Schr. physik. Ges., **46**, (164-169); breeding in Bavaria, GENGLER, München, Verh. ornith. Ges., **6**, (133-146); nesting on the ground, BRAUN, Königsberg, Schr. physik. Ges., **47**, (80-83); food, SCHEEL, Zs. Ornith., Stettin, **30**, (212-213).

Comatibis eremita, notes on, FATIO, Ibis, **1906**, (139-144).

Geronticus eremita, supposed former habits in Switzerland, FATIO, T.c. (217), and SCIATER, T.c. (316).

Hydranassa tricolor rufimentum, subsp. n. Trinidad, notes on allied species; HELLMAYR, Nov. Zool., **13**, (50).

Ibis aethiopica from Dassen Island, South Africa, NICOLL, Avicult. Mag., Brighton, (2), **4**, (275-276).

Myeteria americana, eggs described, HAGMANN, Ornith. Monatsber., **14**, (105).

Nycticorax griseus, eggs, GOEBEL, Zs. Oologie, **16**, (1-3).

Plegadis Kaup = *Egatheus* Billberg, LÖNNBERG, J. Ornith., **54**, (533).—*P. falcinellus*, on Belfast Lough, WRIGHT, Zoologist, **10**, (393); occurrence in Ireland, WORKMAN, Avicult. Mag. Brighton (2), **4**, (363); at Limbourg, Belgium, DUBOIS, Ornith., **13**, (136).

Theristicus melanopsis, egg described, HAGMANN, Ornith. Monatsber., **14**, (165).

ORDER PHOENICOPTERIFORMES.

Phoenicopterus roseus near Dunkirk, VAN KEMPEN, Paris, Bull. soc. zool., **30**, (151); supposed occurrence near Aldeburgh, MURIE, Zoologist, **10**, (393, 394) and GURNEY, T.c. (432); Tongue, MANIS, Biologica, Torino, **1**, (147-156, 1 Tav.).—*P. ruber*, young described, CHAPMAN, Bird Lore, Harrisburg, Pa., **6**, 1904, (193-198).

ORDER ANSERIFORMES.

A few words in reply to Mr. E. W. Oates' paper on the species of bean-geese, ALPHÉRAKY, St. Peterburg, 1906, (7).

Distribution and migration of North American ducks, geese, and swans, COOKE, Washington, D.C., U. S. Dept. Agric., Biol. Surv., Bull., No. **26**, (1-90).

Eclipse plumage and flightlessness. *Anatidae*, FINN, Avicult. Mag. Brighton, (2), **4**, (259-263).

Entenmischlingen, HEINROTH, Berlin, SitzBer. Ges. natf. Freunde, **1906**, (3-4).

Die Enten des Nero-Sees, Gouv. Jaroslavl' (Russ.), KAIDALOV, Psov. i ružejn. ochota, Moskva, **12**, (318-320).

Der Flug der Enten, PAČOSKIJ, (Russ.), Psov. i ružejn. ochota, Moskva, [Buchausgabe], **1906**, I, (156-160).

Der Geschlechtsapparat der Mischlinge von *Cairina moschata* (L.) ♂ und *Anas boschas* var. *dom.* L. ♀, POLL, Berlin, SitzBer. Ges. natf. Freunde, **1906**, (4-7).

Notes on species of *Anser* and *Melanonyx*, ALPHÉRAKY, Ibis, **1906**, (389-394).

Anser albifrons in Madeira, SCHMITZ, Ornith. Monatsber., **14**, (175).—*A. anser*, nesting in the Tay area, LAIDLAW, Ann. Scot. Nat. Hist., **1906**, (237).—*Anas boscas*, notes, DALGLEISH, Zoologist, **10**, (281–284).—*Anas domestica*, Morphologie zweiköpfiger und dreifüssiger Abnormitäten, (Russ.), TARNANI, Novo-Aleksandrija, Zap. Inst. sel'sk. choz., **18**, (106–134).—*A. platyrhynchos*, Linn. 1758, is the name for the Wild Duck *A. boscas*, LÖNNBERG, J. Ornith., **54**, (529).

Anser; notes on East Indian species, OATES, Bombay, J. Nat. Hist. Soc., **17**, (43–60 cum tab figs. 1–8).—*A. erythropus* in the Kurisches Nehrung, THIENEMANN, Ornith. Monatsber., **14**, (5, 6, 159).

Bernicla ruficollis in south-western France, KÜNSTLER et CHAINE, Bordeaux, Pr.-verb. soc. sci. phys. nat., **1906**, (19–21); in Holland, SCLATER, Bull. Brit. Ornith. Cl., **19**, (21).

Branta rufina in the Gironde. KÜNSTLER et CHAINE, Bordeaux, Pr.-verb. soc. sci. Phys. nat., **1906**, (21–26).

Chen hyperborea, in Michigan and Ontario, TAVERNER and SWALES, Auk, **23**, (219–220).

Cygnus olor, nests in Seistan, *C. musicus* only a winter visitant in that country, BUTURLIN, Ibis, **1906**, (737).—*C. musicus* said to breed in Seistan, McMAHON, Ibis, **1906**, (397–399), and ANNANDALE, T.c. (612, 613); occurrence at Carlisle, DUNLOP, Zoologist, **10**, (193).—*C. bewicki*, occurrence in N.-W. Mull, MACDONALD, Ann. Scot. Nat. Hist., **1906**, (186).—*C. bewicki* and *C. musicus*, migration in Finland, ALPHERAKY, Prir. i ochota, Moskva, **1906**, Beil., (7–8).

Dafila acuta, breeding in Shetland, HENDERSON, Ann. Scot. Nat. Hist., **1906**, (53).

Dendrocygna javanica from the Andaman Islands, OSMASTON, Bombay, J. Nat. Hist. soc., **17**, (491).—*D. discolor*, eggs described, HAGMANN, Ornith. Monatsber., **14**, (107).

Erismatura australis, nesting habits, CAMPBELL, Emu, **5**, (198).

Fuligula ferina, near Yarmouth, PATTERSON, Zoologist, **10**, (394, 395); Eclipse plumage, MILLAIS, Bull. Brit. Ornith. Cl., **16**, (80).—*F. homeyeri* in Venice, ARRIGONI DEGLI ODDI, Boll. Soc. zool. ital., Ser. 2, **6**, (123–132).—*F.*

fuligula, changes of feathers, P., Psov. i ružejn. ochota, Moskva, **12**, (531–533).—*F. nyroca*, colour of eyes, BIRD, Zoologist, **10**, (75), SMALLEY, T.c. (112, 113), NICHOLS, T.c. (113), CORBIN, T.c. (194, 195).—*F. glacialis* in Government of Moscow, P., Psov. i ružejn. ochota, Moskva, **12**, (355).—*F. cristata*, breeding habits in confinement, WORMALD, Avicult. Mag., Brighton, (2), **4**, (280–282 cum tab).—*F. cristata* + *F. nyroca*, P., Psov. i ružejn. ochota, **12**, (337).

Mergus merganser, in the Forth, HARVIE-BROWN, Ann. Scot. Nat. Hist., **1906**, (117); in the Outer Hebrides, ELFRISH, T.c. (53).

Nettion albigulare, Port Blair OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (491).—*N. formosum* at Maldon, Essex (probably an escaped individual), HARTING, Bull. Brit. Ornith. Cl., **16**, (80, 81).

Nedemia nigra, in Cheshire, OLDHAM, Zoologist, **10**, (277); in the Outer Hebrides, ELFRISH, Ann. Scot. Nat. Hist., **1906**, (53).—*N. perspicillata*, at Stromness Harbour, ROBINSOON, T.c. (116–117).

Querquedula crinomus sp. n. Peru, OBERHOLSER, Washington, D.C., Proc. Biol. Soc., **19**, (93).

Somateria mollissima, notes, HAGEN-DEFELDT, Zs. Ornith., Stettin, **30**, (161–164); from Stromness, Orkneys, with a V-shaped mark on the throat, like *S. v-nigrum*, HOWARD SAUNDERS, Bull. Brit. Ornith. Cl., **16**, (44); notes on plumage, KAPELÍKIN, Psov. i ružejn. ochota, Moskva, **11**, (470–471); in Cheshire, OLDHAM, Zoologist, **10**, (75); in the Camargue, MINGAUD, Nîmes, Bul. soc. étud. sci. nat., **33**, (170–171); breeding in Holland, VAN OORT, Ornith. Monatsber., **14**, (173, 174); habits, LIE-PETERSEN, Bergen, Naturen, **30**, (161–172).—*S. spectabilis*, in Orkney, SMALLEY, Zoologist, **10**, (113–114); on the Murman coast, NIKOLÍSKIJ, Psov. i ružejn. ochota, Moskva, **12**, (413–415).

Spatula clypeata, intermediate plumage described, BONNOTE, Bull. Brit. Ornith. Cl., **16**, (64, 65), ROTHSCILD, T.c., (65), MILLAIS, T.c. (65, 76).

Tadorna tadorna on Sylt, HAGEN-DEFELDT, Zs. Ornith., Stettin, **30**, (121–125).

ORDER PELECANIFORMES.

Ambigua plotus, notes, CHAPEL, Nîmes, Bul. soc. étud. sci. nat., **31**, [1901], (28-29).

Pelecanus onocrotalus in Prussia, BRAUN, Königsberg, Schr. physik. Ges., **46**, (180-181); occurrence in Oxfordshire, COCKS, Zoologist, **10**, (193-194); near Whitstable, SAUNDERS, T.c. (431-432).—*P. crispus*, Eastern Europe, LODGE, T.c. (361-369, pl. 1); photographs of nests, LODGE, London, Bull. Brit. Ornith. Cl., **19**, (23).

Phalacrocorax carbo maroccanus, **subsp. n.** Morocco, HARTERT, Bull. Brit. Ornith. Cl., **16**, (110-111).—*P. atriceps*, nesting in the South Orkney Islands, CLARKE, Ibis, **1906**, (184-186, pl. xiii, fig. 2).

Sula sula, habits in Tasmania, DORE, Emu, **5**, (159, 160).

ORDER CATHARTIDIFORMES.

Catharistes atratus breeding on Mexiana Island, HAGMANN, Ornith. Monatsber., Berlin, **14**, (110, 111).

Gymnogyps californianus, life history, FINLEY, Condor, **8**, (135-142, pl.).

ORDER ACCIPITRIFORMES.

Beitrag zur Bestimmung der Raubvögel im Fluge, BESSERER, Monatshefte Jagdschutzver., Berlin, **11**, (158-164, 178-183, 193-200).

Die Fänge der Raubvögel, HENNICKE, Ornith. Monatschr., Gera, **31**, (77-78, mit Taf.).

North American eagles and their economic relations; OBERHOLSER, Washington, D.C., Bull., U. S. Dept. Agric., Biol. Surv., No. **27**, (1-31), pl. .

Die Raubvögel der Umgegend der Stadt Tary, UŠAKOV, (Russ.), Psov. i ružejn. ochota, Moskva, **12**, (382-384).

Accipiter nisus, habits, CORBIN, Zoologist, **10**, (192, 193); habits, WEMER, Ornith. Rdsch., Berlin, **2**, (78); *A. nisus lodygini*, **subsp. n.** Kham, S. E. Tibet, BIANCHI, Bull. Brit. Ornith. Cl., **16**, (70).—*A. bicolor schistoehlamys*, **subsp. n.** W. Ecuador, HELLMAYR, T.c. (82).—*A. virgatus*, habits, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (488).

Aquila chrysaëtos, notes, FINLEY, Condor, **8**, (5-11), pl.—*A. orientalis*, habits, ROSSIKOV, Naturfreund, **1**, (23-28, mit 1 Taf.).—*A. hastata*, nesting habits, RATTRAY, Bombay, J. Nat. Hist. Soc., **16**, 1905, (662).—*A. naevia*, nesting habits, RÜDIGER, Zs. Oologie, **16**, (133-135).

Archibuteo hemiptilopus, nest and eggs, DRESSER, Ibis, **1906**, (344, 345).

Astur gentilis (Linn. 1758), the name of the Goshawk, *A. palumbarius*, LÖNNBERG, J. Ornith., **54**, (528).—*A. palumbarius*, notes on, KLEMENZ, Psov. i ružejn. ochota, Moskva, **12**, (210-212, 226-228, 242-244); *A. palumbarius khamensis* **subsp. n.** Kham S. E. Tibet, BIANCHI, Bull. Brit. Ornith. Cl., **16**, (70, 71).—*A. tachiro orienticola* **sp. n.** E. Africa, OBERHOLSER, Pittsburgh, Pa., Ann. Carnegie, Mus., **3**, (195).—*A. brevipes*, in Hungary, CSÖRGEY, Aquila, **13**, (171-179, 2 Taf.).

Baza magnirostris from Mindanao. GRANT, Ibis, **1906**, (497, 498).

Busarellus nigricollis, eggs, HAGMANN, Ornith. Monatsber., **14**, (108, 109).

Buteo albicaudatus albicaudatus, Trinidad, HELLMAYR, Nov. Zool., **13**, (46).—*B. jackal*, breeding in captivity, plumage of young, GURNEY, Avicult. Mag., Brighton, (2), **5**, (360).—*B. ferox* in Switzerland, BURG, Ornith. Monatsber., **14**, (63); in the Netherlands, SNOUCKAERT VAN SCHAUURG, Amsterdam, Versl. Med. Ned. Ornith. Ver., **3**, (25-43); near Lyon, ARRIGONI DEGLI ODDI, Paris, Bul. soc. zool., **28**, 1903, (131-140).—*B. menetriesi*, in Hungary, CSÖRGEY, Aquila, **13**, (171-179, 2 Taf.).—*B. vulgaris*, nests, VAN KEMPEN, Paris, Bul. soc. zool., **30**, (151).—*B. lineatus elegans*, notes, SHARP, Condor, **8**, (144-148).—*B. lagopus*, in Somerset, MEYRICK, Zoologist, **10**, (469).—*B. melanosternus* **sp. n.** Cuzco Peru, BERLEPSCH and STOLZMANN, Ornith., **13**, (104).

Circus reserptinus, Nisten, BUDA, Aquila, **13**, (169).

Circus gallicus, habits, ROSSIKOV, Naturfreund, St. Petersburg, **1**, (191-198, mit 1 Taf.).

Circus cyaneus, breeding in Cornwall, CLEAVE, Zoologist, **10**, (34, 35).

Falco peregrinus, at the Sanda Light-house, MACEWEN, Ann. Scot. Nat. Hist.,

1906, (116).—*F. peregrinus anatum*, habits, THAYER, Bird Lore, Harrisburg, Pa., **6**, 1904, (47-53).—*F. subniger*, habits, FLETCHER, Emu, **5**, (227, 228).—*F. subniger, lunulatus*, and *melanogenys* in Victoria, B[ELCHER], Emu **5**, (204).—*F. subbuteo*, SALZMANN, Ornith., Monatschr., **31**, (511); Aufzucht, Lebensgewohnheiten, ROSSIKOV, Naturfreund, **1**, (80-85, mit 1 Taf.).—*F. eleonorae*, VAUCHER, Feuille jeunes natural., Paris, **36**, (99-100).—*F. asalon* nesting in a tree, HALL, Bull. Brit. Ornith. Cl., **19**, (21).—*F. fusco-caruleseens*, eggs, HAGMANN, Ornith. Monatsber., **14**, (109).—*F. candicans*, in Barra, MACGILLIVRAY, Ann. Scot. Nat. Hist., **1906**, (237).—*F. islandus*, on the Eye Peninsula, Lewis, HARVIE-BROWN, T.c. (185).

Gypaëtus barbatus, habits, PHILLOTT, Calcutta, J. As. Soc. Beng., **2**, (523); in Algeria, bone-breaking habits, WALLIS, Bull. Brit. Ornith. Cl., **16**, (97).

Haliaëtus albicilla in Staffordshire, MASEFIELD, Zoologist, **10**, (74).—*H. leucocephalus*, habits, NEHRLING, Natur n. Haus, Dresden, **14**, (276-278, 290-293); eggs, WILLARD, Auk, **23**, (222).—*H. leucoryphus* in Sicily, STEFANI PEREZ, Naturalista sicil., **18**, 1905, (51-52); *H. a. chrysaëtus*, T.c. (116-118).

Haliastur girrenera feeding on snakes, BANFIELD, Emu, **6**, (16, 17).

Heterospizias meridionalis eggs, HAGMANN, Ornith. Monatsber., **14**, (108).

Hierofaleo eandicans in Belgium, DUBOIS, Ornith., **13**, (134).

Ietinaetus malayensis, nesting habits, RATTRAY, Bombay, J. Nat. Hist. Soc., **16**, 1905, (662).

Lophoictinia isura in confinement, BONNOTE, Avicult. Mag., Brighton, (2), **4**, (195-196).

Lophotriorehis lucani, adult male, comparison with adult of *Hieraëtus spilogaster*, NEUMANN, Bull. Brit. Ornith. Cl., **16**, (112, 113).

Milvus iclinus in Somerset, BLATHWAYT, Zoologist, **10**, (377-379).

Neophron perenopterus, breeding, RATTRAY, Bombay, J. Nat. Hist. Soc., **16**, 1905, (662).

Pandion haliaëtus, mode of carrying its prey, LODGE, Zoologist, **10**, (35).

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Pernis apivorus in captivity, MILLAIS, Field, Feb. 24, 1906, and Avicult. Mag., Brighton, (2), **4**, (208, 209).

Polyborus tharus, eggs, HAGMANN, Ornith. Monatsber., **14**, (109).

Spilornis cheela, egg, RATTRAY, Bombay, J. Nat. Hist. Soc., **16**, 1905, (662).

Tinnunculus alaudarius, habits, PHILLOTT, Calcutta, J. As. Soc. Beng., **2**, (527).

Uroaetus audax feeding on rats, BERNEY, Emu, **6**, (13).

Urubitinga zonura, eggs, HAGMANN, Ornith. Monatsber., **14**, (108).

ORDER STRIGIFORMES.

Nahrung einiger Eulen, GEYR VON SCHWEPPEBURG, J. Ornith., Leipzig, **54**, (534-557).

Asio otus, SCHWARTZ, Berlin, Arb. biol. Anst., **5**, (279-281, mit 1 Taf.).—*A. accipitrinus*, early breeding, GYNGELI, Zoologist, **10**, (35).—*A. accipitrinus pallidus* **subsp. n.** in Russia, W. Siberia, Turkestan and Persia, SARUDNY and LOUDON, Ornith. Monatsber., **14**, (151).—*A. leucotis nigrovertex*, Erl. = the true *Scops leucotis* (Temm.).—*S. erlangeri*, nom. nov. pro *Asio leucotis*, Erl. (nec Temm.). GRANT, Ibis, **1906**, (660).

Bubo ignarus u. *B. maximus*, in Böhmen, Loos, Berlin, 1906, (73, mit 8 Taf.).—*B. bubo tibetanus* **subsp. n.** Kham S.E. Tibet, BIANCHI, Bull. Brit. Ornith. Cl., **16**, (69).—*B. ascalaphus trothae* **subsp. n.** German S.W. Africa, REICHENOW, Ornith. Monatsber., **14**, (10).

Carine noctua in E. Prussia, LOUDON, Ornith. Monatsber., **14**, (190-191).

Cryptoglaux ridgwayi **sp. n.** Costa Rica, ALVARO, Washington, D.C., Proc. Biol. Soc., **18**, (217).

Glaucidium brodiei, nesting, RATTRAY, Bombay, J. Nat. Hist. Soc., **16**, 1905, (662).

Heterosops vulpes **sp. n.** Gynong Tahan Malay Peninsula, GRANT, Bull. Brit. Ornith. Cl., **19**, (11, 12).

Megascops asio, notes on, COOLIDGE, Auk, **23**, (48-55).—*M. a. bendirei*, red plumage, EMERSON, Condor, **8**, (29).

Ninox boobook cinnamomina **subsp. n.** Tapa Island of Babber, HARTERT, Nov. Zool., **13**, (293).

Nyctala funerea (Linn. 1758) vice *N. tengmalmi* (Gm.), LÖNNBERG, J. Ornith., **54**, (531).

Nyctea scandiaca, in Ireland, WILLIAMS, Zoologist, **10**, (351).—*N. nivea*, large flights, DEANE, Auk, **23**, (100-101, 283-298).

Otus cholibathompsoni **subsp. n.**, COLE, Cambridge, Mass., Bull. Mus. Comp. Zool., Harvard Coll., **50**, (109-146).

Pisorhina scops, specimen from Hamburg = *P. choliba* (V.), HARTERT, Ornith. Monatsber., **14**, (81).

Pseudopteryx mindanensis **sp. n.** Davao Mindanao, GRANT, Bull. Brit. Ornith. Cl., **16**, (99), and Ibis, **1906**, (496).

Scops scops, breeding in, St. Petersburg, Government, ALPHERAKY, Psov. i ružejn. ochota, Moskva, **12**, (398).—*S. balli*, notes on, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (487).—*S. asio kennicotti*, BOWLES, Condor, **8**, (143-144).

(*Scops faec*, **sp. n.** Anno Bom. Isl., SALVADORI, Torino, Mem. Acc. sc., **53**, 1903, (95-96).)

Scotiaptex cinerea, note EIFRIG, Ottawa Nat., **20**, (79-81).

Surnia funerea (Linn.) = *S. ulula*, OBERHOLSER, Washington, D.C., Proc. Biol. Soc., **19**, (42-43).—*S. ulula* in der kurischen Nehrung, THIENEMANN, Ornith. Monatsber., **16**, (6, 190).—*S. ulula tianshanica*, **subsp. n.** Tianshan Mts, SMALL-BONES, Ornith. Monatsber., **14**, (27-29).

Syrnium aluco, early breeding, GYNGELL, Zoologist, **10**, (35); nesting, WEMER, Zs. Oologie, **16**, (117-119); eggs, OTTO, T.c. (81-86).—*S. aluco* and *S. stridula*, notes on Linnaeus, diagnoses, LÖNNBERG, J. Ornith., **54**, (530); *S. bartelsi* **sp. n.** Java, FINSCH, Ibis, **1906**, (402-401, pl. xvii), and Bull. Brit. Ornith. Cl., **16**, (63).

ORDER PSITTACIFORMES.

Vide SALVADORI, **3**.

Agapornis nigrigenis **sp. n.** Muquazi River, N. W. Rhodesia, W. L. SCLATER, Bull. Brit. Ornith. Cl., **16**, (61-62).

Bolborhynchus monachus, habits, FASSBENDER, Geflügelzüchter, Leipzig, **11**, 386-387).

Brotogeterys viridissima, FRISCH, Natur und Haus, Dresden, **15**, (90-92).

Cacatua sanguinea, habits, FLETCHER, Emu, **5**, (228, 229).

Charmosyna stellae walnesi **sp. n.**, German New Guinea, ROTHSCILD, Bull. Brit. Ornith. Cl., **19**, (27, 28).

Comercus aureus breeding on Mexiano Island, HAGMANN, Ornith. Monatsber., **14**, (110).

Loriculus vernalis, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (487).—*L. philippensis doherityi* **subsp. n.**, Basilan Philippine islands, HARTERT, Nov. Zool., **13**, (757-758).

Melopsittacus undulatus in Central Queensland, FORD, Emu, **5**, (158); in Western district of Victoria, AUSTIN, Emu, **5**, (204).

Nestor notabilis carnivorous habits, BENHAM, Nature, London, **73**, 1902, (559), and Ibis, **1906**, (742).

Palacornis magnirostris, breeding in captivity, BOUGHTON-LEIGH, Avicult. Mag., Brighton, (2), **4**, (336).

Platyceercus elegans immature plumage, SETH-SMITH, Avicult. Mag., Brighton, (2), **4**, (157-158).—*P. erythropeplus*, Salvad. = *P. elegans* × *P. eximius*, SETH-SMITH, Avicult. Mag., (2), **4**, (132).—*P. melanoptera* **sp. n.**, Kangaroo Island, NORTH, Emu, **6**, (78).

Psittacula passerina, habits, UFER, Natur u. Haus, **14**, (166-168).

Pyrrhura leucotis, breeding in confinement, BROOK, Avicult. Mag., Brighton, (2), **5**, (59, 60).—*P. picta amazonum* **subsp. n.**, Lower Amazonia, HELLMAYR, Bull. Brit. Ornith. Cl., **19**, (8).—*P. hoffmanni*, **subsp. n.**, *gaudens*, Chiriqui BANGS, Washington, D.C., Proc. Biol. Soc., **19**, (103).

Rhiphopsitta pachyrhyncha, nest and eggs, THAYER, Auk, **23**, (223-224).

Trichoglossus johnstoniae, GOODFELLOW, Avicult. Mag., Brighton, (2), **4**, (83-88, tab.); Nesting in captivity, JOHNSTONE, op. cit. **5**, (44-46).

ORDER CORACIFORMES.

Sub-Order Steatornithes.

Steatornis caripensis, notes, INGRAM, Avicult. Mag., Brighton, (2), **4**, (236-239, tab.).

Sub-Order Podargi.

Batrachostomus septimus, nest, GRANT, Ibis, **1906**, (489, 190).

Coracias garrulus, range. SCHUSTER, Natur. u. Haus, Dresden, **14**, (264-265); in Sutherlandshire, GUNNIS, Ann. Scot. Nat. Hist., **1906**, (185).

Sub-Order Halcyones.

Alcedo ispida, BALZ, Weidmann, Berlin, **37**, (852-853); habits, GROTE, Zs. Oologie, **16**, (57-59).—*A. beavani*, eggs, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (162).

Ceyx basilanica distinct from *mindanensis*, GRANT, Ibis, **1906**, (191, 492).—*C. goodfellowi* described, id. l.c.

Dacelo gigas devouring small birds, MACDONALD, Emu, **6**, (74).

Halcyon smyrnensis, eggs, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (162).—*H. senegalensis fuscopileus* "consp. n" Camaroons, REICHENOW, Ornith. Monatsber., Berlin, **14**, (171, 163).

Sauropatis chloris, eggs, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (163).

Sub-Order Bucerotes.

Bycanistes aloysii sp. n., Uganda, SALVADORI, Boll. Mus. Torino, **21**, No. 542, (1).

Sub-Order Upupae.

Irrisor viridis, nesting. SOLATER, Bull. Brit. Ornith. Cl., **16**, (48, 63); eggs, HAAGNER, op. cit., **19**, (23).—*O. erythrorhynchus marwitzi* subsp. n. Weinbere Steppes E. Africa, REICHENOW, Ornith. Monatsber., **14**, (171).

Upupa epops, in Argyllshire, CAMPBELL, Ann. Scot. Nat. Hist., **1906**, (52); on Lundy Island, JOY, Zoologist, **10**, (285); in Norfolk, MOURITZ, T.c. (191); in confinement, DICHTL, Gefied. Welt, Magdeburg, **35**, (61-62); notes, REEKER, NatCab., Grünberg, **1906**, (216); WIGGER, Münster, Jahresber. ProvVer Wiss., **34**, (128-130).

Sub-Order Meropes.

Dicrocerous hirundineus heuglini subsp. n., Upper White Nile and (N-9720 q)

Gazelle River, *D. h. omoensis*, subsp. n., Omo River district, NEUMANN, Bull. Brit. Ornith. Cl., **16**, (113, 114).

Melittophagus swinhoii, eggs, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (162).

Merops furcatus Stanley = *hirundineus* Licht., NEUMANN, Bull. Brit. Ornith. Cl., **16**, (113).—*M. apiaster*, in the Scilly Isles, GRANT, Zoologist, **10**, (470); in Holland, SNOUCKAERT VAN SCHAUBURG, Amsterdam, Versl. Med. Ned. Ornith. Ver., **3**, (25-43).—*M. persicus*, in Italy, LEONE, Boll. Soc. zool. ital., Ser. 2, **6**, (180-183).

Sub-Order Momoti.

Eumomota superciliaris subsp. n. *australis*, BANGS, Washington, D.C., Proc. Biol. Soc., **19**, (104).

Momotus connexus sp. n., Panama. THAYER and BANGS, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**, (215).

Sub-Order Caprimulgi.

Caprimulgus manillensis, eggs, GRANT, Ibis, **1906**, (488).—*C. andamanicus*, notes, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (486).—*C. europæus*, nesting habits, eggs, RATTRAY, op. cit. **16**, (660).—*C. indieus*, nesting habits, RATTRAY, l.c.—*C. apatellus*, Notes, SHARPE, Ibis, **1906**, (519).—*C. batesi* sp. n. River Ja, Camaroons, SHARPE, Bull. Brit. Ornith. Cl., **19**, (18, 19).

Macropsalis lyra peruana subsp. n. Cuzco Peru, BERLEPSCH and STOLZMANN, Ornith. London, **13**, (121).

Macrodipteryx macrodipterus, Egg, NEUMANN, J. Ornith., **54**, (300).

Nyetidromus albicollis, breeding on Mexiana Island, Eggs, HAGMANN, Ornith. Monatsber., Berlin, **14**, (110).

Phalaenoptilus, Anatomy, MARSHALL, Philadelphia, Pa., Proc. Amer. Phil. Soc., **44**, (213-240).

Sub-Order Cypseli.

Aerodramus subgen. n. of *Collocalia*, OBERHOLSER, Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**.

Apus roehli (172), *A. apus marwitzi* (171), E. Africa. REICHENOW, Ornith. Monatsber., **14**, (171), spp. n.

Chaetura poliura (Temm.) = *pelagica* (Linn.), HELLMAYR, Nov. Zool., **13**, (37).—*C. vauxi*, DAWSON, Auk, **23**, (224-225).—*C. cinereiventris phaeopygos* **subsp. n.** Costa Rica, HELLMAYR, Bull. Brit. Ornith. Cl., **16**, (83).—*C. stietilema marwitszi* **subsp. n.** Inkalama, E. Africa, REICHENOW, Ornith. Monatsber., **14**, (171).

Collocalia agnota, *ocista*, *origenis*, *thespesia*, **spp. n.**; *fuciphaga elaphra*, *unicolor amelis*, *francica townsendi*, *linchi cyanoptila*, *linchi elachyptera*, *linchi isonota*, **subsp. n.**; OBERHOLSER, Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**.—*C. francica*, *linchi*, notes, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (486).

Cypselus melba, nesting habits, RAT-TRAY, Bombay, J. Nat. Hist. Soc., **16**, 1905, (660).—*C. apus*, notes, Tschusi zu Schmidhoffen, Ornith. Monatschr., Gera, **31**, (577-578); habits, BERTRAM, T.c. (238-253, 257-260); migration, WEMER, Zool. Beob., **47**, (373-376); migration Devonshire, YERBURY, Bull. Brit. Ornith. Cl., **16**, (96, 97); late breeding, LEWIS, Zoologist, **1906**, (30, 31).—*C. mayottensis* **sp. n.**, Mayotte Isl., NICOLL, Bull. Brit. Ornith. Cl., **16**, (104), and notes on, *id.*, Ibis, **1906**, (681).

Hemiproene Nitzsch = *Macropteryx* Swainson, OBERHOLSER, Washington, D.C., Proc. Biol. Soc., **19**, (67-70).

Macropteryx cornata major Hartert, not separable from *M. cornata*, GRANT, Ibis, **1906**, (487, 488).

Streptoprocne **gen. n.** for *Hirundo zonaris* Shaw, OBERHOLSER, Washington, D.C., Proc. Biol. Soc., **19**, (69).

Sub-Order Trochili.

La Faune argentine. L'Oiseau-Mouche et les Inséparables. BLASI, Aviculteur, Paris, **25**, 1905, (123-126).

Arocettula recurvirostris from Pará, HELLMAYR, Nov. Zool., **13**, (377).

Calliphlox amethystina, at Pará, HELLMAYR, T.c. (379).

Calypte costae, eggs, CARPENTER, Condor, **8**, (57).

Discosura longicauda, from Pará, HELLMAYR, Nov. Zool., **13**, (379).

Glauis lanceolata, Gould = *G. hirsuta* (Gm.), HELLMAYR, T.c. (374).

Hylonympha macrocerca, Gould, is from Venezuela, not Brazil, HELLMAYR, T.c.

Leuceria phalerata Bangs is a *Helianthea*, HELLMAYR, Bull. Brit. Ornith. Cl., **19**, (29).

Petasophora iolata in confinement, SETH-SMITH, Avicult. Mag., Brighton, **2**, **4**, (109-111).

Phaethornis rufurumi amazonicus **subsp. n.** Santarem Lower Amazonia, HELLMAYR, Bull. Brit. Ornith. Cl., **16**, (83).—*P. guianensis*, Bourc. = *affinis* Pelz., HELLMAYR, Nov. Zool., **13**, (374), the form from British Guiana should stand as *P. ruber episcopus*, Gould, *id.* T.c. (375).

Saucerottia cyanura impatiens **subsp. n.**, Costa Rica, BANGS, Washington, D.C., Proc. Biol. Soc., **19**, (104).

Thalurania simoni, forma nov. Rio Solimões Brazil, HELLMAYR, Bull. Brit. Ornith. Cl., **19**, (8, 9).

Threnetes cerrinicauda Gould, from Pará, HELLMAYR, Nov. Zool., **13**, (374).

Trochilus reginae. Schreibers = *Lophornis gouldii* (Less), HELLMAYR, T.c. (379).

ORDER TROGONES.

Trogon curucui and allies. Notes, HELLMAYR, Nov. Zool., **13**, (41).

ORDER COCCYGES.

Eggs of Indian Parasitic Cuckoos. BAKER, Bombay J. Nat. Hist. Soc., **17**, (351-374, with 1 pl.).

Parasitic habits of four Australian Cuckoos, CAMPBELL, Emu, **5**, (196-198).

La légende de Jenner sur l'isolement du jeune Coucou dans le nid, RASPAIL, Paris, Bul. Soc. zool., **30**, 1905, (29-39).

Centropus assumptionis **sp. n.** Assumption Isld. Indian Ocean, NICOLL, Bull. Brit. Ornith. Cl., **16**, (105); Note, NICOLL, Ibis., **1906**, (694).—*C. andamanensis*, Note, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (487).

Chaleococcyx plagosus laying in mid-winter near Sydney, MATTINGLEY, Emu, **6**, (66).—*C. lueidus* with *Malurus cyaneus* as foster parent, BARRETT, T.c. (pl. viii).—*C. plagosus*, jur. figured. *id.* T.c. (pl. vii).

Cuculus: Notes on Australian species, NORTH, Ibis, **1906**, (53-55), HARRISON, Emu, **6**, (27).—*Cuculus pallidus* in New South Wales, HARRISON, T.c. (65); in Victoria, CAMPBELL, T.c. (65); in Tasmania, DORE, T.c. (65, 66); young fed by two pairs of Honey-eaters, BRENT, op. cit. **5**, (209, 210); foster-parents, CAMPBELL, op. cit. **6**, (16).—*C. flabelliformis*, auct. (nec Lath.) must be called *C. rufulus*, Vieill.; NORTH, Ibis, **1906**, (53-55); Latham's name founded on Watling's Drawings, SHARPE, London, Hist. Coll. Brit. Mus., (120).—*C. intermedius* in New South Wales, NORTH, Proc. Linn. Soc. N.S.W., **30**, 1905, (260); in Northern Territory of S. Australia, ASHBY, Emu, **6**, (72).—*C. micropterus*, parasitic on *Trochalopteron lineatum*, and *Larvivora brunnea*, RATTRAY, Bombay J. Nat. Hist. Soc., **16**, 1905, (661).—*C. canorus*, cry, PASZLAWSZKY, Terint. Közl., **38**, (412-413); song at night, RAMSBOTHAM, Zoologist, **10**, (285); cry, SCHUSTER, Münster, Jahresber. ProvVer. Wiss., **34**, (133-146); cry, THOMAS, Thür. Monatsbl., **14**, (17-20, 29-31); notes on, LINK, München, Verh. ornith. Ges., **6**, (150-193); habits, WEMER, Münster, Jahresber. ProvVer. Wiss., **34**, (42); habits, WEMER, Zool. Beob., **47**, (238-241); breeding habits, ELLISON, Zoologist, **10**, (72-74); BUTTERFIELD, T.c. (110-112); parasitic on *Linota flavivestris*, BUTTERFIELD, T.c. (31-33); remarkable clutch of eggs, BUNYARD, T.c. (430, 431) and BUTLER, T.c. (469, 470); three eggs in one nest, TUCK, (276); curious egg in nest of *Regulus cristatus*, READ, Bull. Brit. Ornith. Cl., **19**, (21-22).

Piaya cayana insulana **subsp. n.** Trinidad, Notes on allied species, HELLMAYR, Nov. Zool., **13**, (43-44).

Surniculus lugubris, eggs found in the nest of Ashy Drongo, RATTRAY, Bombay, J. Nat. Hist. Soc., **16**, 1905, (661).

ORDER SCANSORES.

Indicator narokensis **sp. n.** Doinyo Narok Int. Brit. E. Africa, JACKSON, Bull. Brit. Ornith. Cl., **19**, (20).

Capito punctatus **subsp. n.** Rio Cadena, Peru, BERLEPSCH and STOLZMANN, Ornith. **13**, (123).—*C. versicolor*, *C. glaucogularis*, iid. T.c. (98).

Xylobucco aloysii **sp. n.** Uganda, SALVADORI, Boll. Mus. Torino, **21**, No. 542, (2).

ORDER PICIFORMES.

Campophilus melanoleucus eggs from Mexiana Island, HAGMANN, Ornith. Monatsber., **14**, (110).

Celens elegans and allies, *C. léotaudi* **sp. n.** Trinidad, HELLMAYR, Nov. Zool., **13**, (39).

Chysoptilus **sp. n.** Para, SNETHLAGE, J. Ornith., **54**, (499).

Deudrocopus major and its races, MARTORELLI, Milano, Atti Soc. ital. Sc. nat., **46**, (1-14).—*D. major tenuirostris* **subsp. n.**, Transcaucasia, BUTURLIN, Ibis, **1906**, (412, 414); *D. leuconotus lilfordi* and *D. medino caucasicus*, notes on, BUTURLIN, T.c., (413, 414).—*D. minor* in Hertfordshire, WESTELL, Zoologist, **10**, (31).

Dryobates pubescens, habits, SHARPLES, Auk, **23**, (101).—*D. villosus* and allies *plumage*, JENKINS, Auk, **23**, (161-171).

Dryocopus martius, HEYDER, Ornith. Rdsch., Berlin, **2**, (52-53); in Saxony, HEYDER, Ornith. Monatsber., **14**, (167-171, 183-189); in Belgium, DUBOIS, Ornith. **13**, (134); *D. martius reichenovi*, **subsp. n.**, Ussuri River, KOTHE, Ornith. Monatsber., **14**, (95).

Gecinus canus in Belgium, DUBOIS, Ornith. **13**, (134).—*G. gucerini kogo* **subsp. n.**, S.E. Tibet, BIANCHI, Bull. Brit. Ornith. Cl., **16**, (69).—*G. sordidior* **sp. n.**, W. Yun-nan, RIPPON, Bull. Brit. Ornith. Cl., **19**, (32).—*G. robinsoni* **sp. n.** Malay Peninsula, GRANT, Bull. Brit. Ornith. Cl., **19**, (11).

Hypopicus hyperythrus, nesting habits, RATTRAY, Bombay J. Nat. Hist. Soc., **16**, 1905, (659-660).

Tynx torquilla in Lewis, HARVIE-BROWN, Ann. Scot. Nat. Hist., **1906**, (185); in the Forth, EVANS, T.c.; habits, UHDE, Ornith. Monatschr., Gera, **31**, (124-125).

Melanerpes formicivorus bairdi, habits, FISHER, Condor, **8**, (107, pl. x); also Amer. Ornith., Worcester, Mass., **6**, (80-82).

Picummus amazonicus **sp. n.** Lower Amazonia, SNETHLAGE, Ornith. Monatsber., **14**, (59, 60).—*P. amazonicus* = *P. macconelli*, Sharpe, HELLMAYR, Nov. Zool., **13**, (349), *macconelli* a subspecies of *cirrhatatus*, id. l.c.

Picus martius in Westphalia, REEKER, Münster, Jahresber. Prov. Ver. Wiss., **34**, (38-40).—*P. viridis*, food, ZIMMERMANN, Ornith. Rdsch., Berlin, **2**, (86-87).—*P. owstoni* **sp. n.** Omani-Oshima Island, OGAWA, Annot. Zool. Jap., **5**, 1905, (203-205, pl. x).

Sphyrapicus varius, Amer. Ornith., Worcester, Mass., **6**, 1906, (38, 39).

Thriponax hodgei eggs, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (162).

Veniliornis kirkii continentalis **subsp. n.**, Venezuela, HELLMAYR, Nov. Zool., **13**, (39).

ORDER MENURIFORMES.

Menura victoriac, KITSON, Washington, D.C., Smithsonian Inst., Rep., **1905**, (363-374, pl. x).—*M. superba*, nest figured, LE SOUEF, Emu, **6**, (68, pl. ix).

ORDER PASSERIFORMES.

Étude des espèces critiques et des types de groupe de Passereaux trachéophones de l'Amérique tropicale, appartenant aux collections du Muséum: MÉNÉGAUX et HELLMAYR, Paris, Bul. soc. philom., sér. 9, **8**, (24-58).

CONOPOPIAGIDAE.

Conopophaga ardesiaca saturata **subsp. n.**, Cuzco Peru, BERLEPSCH and STOLZMANN, Ornith., **13**, (119).—*C. roberti* ♀ described, SNETHLAGE, Ornith. Monatsber., **14**, (8).

FORMICARIIDAE.

Cercomacra hypomelacna ScL. = *sera* (ScL.), HELLMAYR, Nov. Zool., **13**, (343, 344).

Chamaeza olivacea **subsp.** described, Cuzco, Peru, BERLEPSCH and STOLZMANN, Ornith., **13**, (118).—*C. turdina chionogaster* **subsp. n.**, Venezuela, HELLMAYR, London, Bull. Brit. Ornith. Cl., **16**, (91).—*C. brevicauda* **subsp. n. venezuelana** Caracas, MÉNÉGAUX et HELLMAYR, Paris, Bul. soc. philom., **8**, (54, 55).

Diechrozona, cf. *Hypocnemis*.

Dysithamnus subplumbens ScL. and Salv., *Hypocnemis schistacea* ScL., *Heterocnemis leucostigma* (Pelz.) and *H.*

saturata Salvin, referred to *Scelateria*: HELLMAYR, Nov. Zool., **13**, (341-347).—*D. affinis andrei* **subsp. n.**, Trinidad, and notes on allies, HELLMAYR, Tc. (31).—*D. fuliginosus* (Lafr. et D'Orb.) = *schistaceus* (D'Orb.), MÉNÉGAUX and HELLMAYR, Paris, Bul. soc. philom., **8**, (28-29).

Formicarius amazonicus Hellmayr = *ruficeps* (Spix), HELLMAYR, Nov. Zool., **13**, (373).

Formicivora rufater (Lafr. et D'Orb.) = *rufa* Wied), MÉNÉGAUX and HELLMAYR, Paris, Bul. soc. philom., **8**, (37).—*F. devillei* **sp. n.** N.E. Peru, MÉNÉGAUX et HELLMAYR, Paris, Bul. soc. philom., **8**, (38-40).

Grallaria regulus **subsp.** described from Cuzco, Peru, BERLEPSCH and STOLZMANN, Ornith., **13**, (219).

Gymnopathys bicolor dagnae **subsp. n.**, Dagua River Valley, Colombia, HELLMAYR, Bull. Brit. Ornith. Cl., **16**, (83, 84).

Hypocnemis myotherina ochrolaema **subsp. n.**, Santarem, Lower Amazons, HELLMAYR, Tc. (109, 110).—*H. paccilonota* and allies, notes on, HELLMAYR, Tc. (5).—*Hypocnemis vidua* Hellmayr, note, SNETHLAGE, Ornith. Monatsber., **14**, (29); REICHENOW, Tc. (30, nota).—*H. navioides* **subsp. n. capitis**, BANGS, Washington, D.C., Proc. Biol. Soc., **19**, (107).—*H. stellata* ScL. and Salv. = *Diechrozona cineta* (Pelz.), *D. zononota*, Ridgway is identical with *D. cineta*, HELLMAYR, Nov. Zool., **13**, (348, 349).

Myrmecisa longipes albiventris, Chapman = *M. swainsoni* Berl. = *M. longipes* (Swains.), HELLMAYR, Tc. (33).—*M. stictoptera*, Lawrence = *laemosticta* Salvin, HELLMAYR, Tc. (342-343).—*M. cinna-nomea* (Gm.) and *M. albicollis* (Vieill.) = *ferruginea* (P.L.S. Muller), MÉNÉGAUX and HELLMAYR, Paris, Bul. soc. philom., **1906**, (36).

Myrmelastes plumbeus, ScLATER = *M. hyperythrus* (Gould), MÉNÉGAUX and HELLMAYR, Tc. (29).—*M. exul* (ScL.) and allies; *M. immaculata* (ScL. and Salv.) and *intermedia* (Cherrie) = *exul* (ScL.); *M. exul maculifer*, nom. nov. for the form which comes from Western Ecuador, HELLMAYR, Nov. Zool., **13**, (340-342).—*M. corrinus* (Gould): *M. nigerri-mus*, ScLATER *M. leuconotus*, Auct. (nec Spix) = *M. melanoceps* (Spix): MÉNÉGAUX and HELLMAYR, Paris, Bul. soc. philom., **8**, (29, 30).—*M. melas*

(Puch.) = *luctuosus* (Licht.), MÉNÉGAUX and HELLMAYR, T.c. (32, 33).—*M. moestus* (Pelz.); *M. camiopiensis* = *melanothorax* (Scl.); MÉNÉGAUX and HELLMAYR, T.c. (32–33).—*M. cryptoleucus* sp. n. Pebas, MÉNÉGAUX et HELLMAYR, (30–32).

Myrmotherula nigrorufa, Boucard = *schisticolor* (Lawr.); MÉNÉGAUX and HELLMAYR, T.c. (50).—*M. pusilla* (Puch. ex Cuv.) = *longipennis*, Pelz.: MÉNÉGAUX and HELLMAYR, T.c. (51).—*M. pusilla* (Puch. ex Cuv.) = *surinamensis* (Gm.); MÉNÉGAUX and HELLMAYR, T.c. (48).—*M. guayambae* Sharpe = *atrogularis* Tacz.; HELLMAYR, Nov. Zool., **13**, (349).—*M. ornata hoffmannsi* subsp. n. Santarem, HELLMAYR, Bull. Brit. Ornith. Cl., **16**, (84).—*M. hauxwelli hellmayri* subsp. n. Para, SNETHLAGE, Ornith. Monatsber., **14**, (8, 9).—*Myrmotherula* vide etiam *Thamnophilus*.

Perenostola funebris (Licht.); *P. caesi* (Puch.) = *P. rufus* (Bodd.); MÉNÉGAUX and HELLMAYR, Paris, Bul. soc. philom., **8**, (35).

Phlogopsis paraensis Hellmayr, Note, SNETHLAGE, Ornith. Monatsber., **14**, (30, 31).

Pyriglena notodelos (Puch. ex Cuv. Ms.) *P. leucopterus* (Vieill.); MÉNÉGAUX and HELLMAYR, Paris, Bul. soc. philom., **8**, (35).

Rhamphocænus trinitatis, notes, HELLMAYR, Nov. Zool., **13**, (32).

Sclateria schistocæca caurensis subsp. n. Caura River, Venezuela, HELLMAYR, Bull. Brit. Ornith. Cl., **19**, (9).

Sclateria albiventris (Pelz.) = *S. argentatus* (De Murs); MÉNÉGAUX and HELLMAYR, Paris, Bul. soc. philom., **8**, (35).

Ternura melanoleuca, Pelz. and *Myrmochanes hypoleucus* Allen = *Hypoenemis hemileuca*, Scl. and Salv., HELLMAYR, Nov. Zool., **13**, (348).

Thamnomanes caesi *hoffmannsi* subsp. n. Para, HELLMAYR, Bull. Brit. Ornith. Cl., **16**, (53, 54).

Thamnophilus poecilurus (Pucher) = *cristatus* Wied. (26, 27).—*T. ruficeps* (Puch.) = *capistratus* Less. (27), *T. atropileus*, Lafr. et D. Orb. = *torquatus* Swains, (28); MÉNÉGAUX and HELLMAYR, Paris, Bul. soc. philom., **8**.—*T. doliatus* *fralereulus* = *T. doliatus* (30).—*T.*

trinitatis Ridgway = *canadensis* (Linn.) (31).—*T. tristis*, Scl. and Salv. = *polionotus*, Pelz. (338, 339).—*T. maculipennis* Scl. = *Pygiptila stellaris* (Spix) (367).—*T. melanogaster* Spix. = *Myrmotherula axillaris* Vieill. (368, 369), *M. hauxwelli*, is nearly allied to *M. guttata*, Vieill. (369); HELLMAYR, Nov. Zool. **13**.—*T. dinellii* sp. n. Tucuman, BERLEPSCH, Bull. Brit. Ornith. Cl., **16**, (99).

DENDROCOLAPTIDÆ.

Automolus vide *Philydor*.

Dendrocincla meruloides aphant, Oberholser = *meruloides* (Lafr.), HELLMAYR, Nov. Zool., **13**, (29).—Key to the species of the genus *Dendrocincla* id. T.c. (337, 338).—*Dendrocolaptes atri-rostris*, Lafr. and d'Orb. referred to *Dendrocincla*; *D. minor* Pelz. and *fumigata*, Pelz. = *D. atri-rostris*; HELLMAYR, T.c. (336).

Dendromis consobrinus, Dulmas = *susurrans*, Jard., (29).—*D. nasica albi-squama* = *D. susurrans*, (29–30)—*D. susurrans jardinei* Dalm. is distinct (30); HELLMAYR, T.c.

Leptasthenura vide *Synallaxis*.

Philydor cervicalis, Scl. should stand as *Automolus infuscatus cervicalis* (Scl.); *A. sclateri*, Salv. = *A. cervicalis* (Scl.); HELLMAYR T.c. (335).

Phlæocryptes melanops schænobœnus from Puno S. Peru, BERLEPSCH and STOLZMAN, Ornith. London **13**, (128).

Sclerurus canigularis is distinct from *abligularis*; HELLMAYR, Nov. Zool., **13**, (28); *S. carii*, notes on: id. T.c. (29).

Siptornis sordida affinis subsp. n. Tucuman, BERLEPSCH, Bull. Brit. Ornith. Cl. **16**, (98).—*S. baeri*, sp. n. Tucuman, id. T.c. (99).

Synallaxis curtata debilis subsp. n. Peru, BERLEPSCH and STOLZMAN, Ornith. London, **13**, (115, 116).—*S. frenata* sp. n. Amazons, SNETHLAGE, J. Ornith., **54**, (523).—*S. occipitalis* Madarasz = *abligularis* Sclater, (28).—*S. paucalensis* Tacz. and *S. subspeciosa*, Salvad. and Festa = *elegans*, Less., (334).—*S. speciosa*, Salv. is a subspecies of *S. elegans*, Less. (335).—*S. setaria*, Temm. and *S. striolata* Pelz. referred to *Leptasthenura* (332–333): HELLMAYR, Nov. Zool. **13**.

Uruceuthia bridgesi, ScL. = *andaecola*, Lafr. and d'Orb.; HELLMAYR, T.c. (331).—*U. serrana* is distinct, id. l.e.

Xenicopsis variegaticeps subsp. n. *idoneus*, BANGS, Washington, D.C., Proc. Biol. Soc., **19**, (108).

TYRANNIDAE.

Anaeretes selateri, Oust. referred to *Hapalocercus*, (320-321).—*H. hollandi*, ScL. = *H. selateri*, Oust.—*H. striaticeps*, Salv. is a subspecies of *H. selateri*.—*Pseudocolopteryx dinellianus*, Lillo is a *Hapalocercus*, l.e. HELLMAYR, Nov. Zool. Tring, **13**.—*A. flavirostris* subsp. S. Peru, BERLEPSCH and STOLZMAN, Ornith., **13**, (69).

Atalotriccus pilaris subsp. n. *venezuelensis*, RIDGWAY, Washington, D.C., Proc. Biol. Soc., **19**, (115).

Calopteryx inornatus, Ridgway = *galeatus* (Bodd.), Pará; HELLMAYR, Nov. Zool. **13**, (360).

Capsiempis caudata, Salv. referred to *Serpophaga*, (323).—*S. orenocensis*, Berlepsch and Hartert = *S. caudata* (Salv.) l.e.; HELLMAYR T.c.—*Capsiempis* vide etiam *Muscicapa*.

Knipolegus vide *Knipolegus*.

Coryphotriccus gen. n., RIDGWAY, Washington, D.C., Proc. Biol. Soc., **19**, (115).

Elaenia frantzii subsp. n. *stolzmanni*, RIDGWAY, T.c. (116).

Empidonax pusillus trailli in C. Peru, BERLEPSCH and STOLZMAN, Ornith., **13**, (90).—*E. difficilis*, BAILEY, Condor, **8**, (108).—*E. insulicola* = *E. difficilis*, GRINNELL, Condor, **8**, (74).

Hapalocercus vide *Anaeretes*.

Heterocercus, Key; HELLMAYR, Nov. Zool., **13**, (327).

Knipolegus unicolor, Kaup = *K. cyanostris* (Vieill.) (318).—*K. selateri*, nom. nov. pro *unicolor*, Pelz. (nec. Kaup.) (318).—*Muscicapa cristata*, Less. = *K. cyanostris* (Vieill.) (318).—*Muscisaxicola striaticeps*, Lafr. and d'Orb. referred to *Knipolegus* (318-319).—*K. cinereus*, ScL. = *K. striaticeps* (319); HELLMAYR, T.c.

Leptopogon tristis, ScL. and Salv. = *Phylloscartes ventralis angustirostris* (Lafr. et d'Orb.) (321-322).—*L. god-*

mani, ScL. = *Pogonotriccus ophthalmicus*, Tacz. (322-323); HELLMAYR T.c.

Lophotriccus squamieristatus hypochlorus subsp. n. BERLEPSCH and STOLZMAN, Ornith., **13** (85).

Megarhynchus pitangua, *M. caniceps*, spp. n., RIDGWAY, Washington, D.C., Proc. Biol. Soc., **19**, (116).

Mionectes oleagineus pallidirentis subsp. n. Trinidad and Tobago; notes on the genus; HELLMAYR, Nov. Zool., **13**, (22).—*M. olivaceus* subsp. n. *renezuensis*, RIDGWAY, Washington, D.C., Proc. Biol. Soc., **19**, (116).

Muscicapa luteocephala Less. referred to *Heterocercus*.—*M. luteocephala*, Lafr. = *Neopelma arifrons* (Wied), (327).—*M. uropygiata* Wied. is a subspecies of *Attila brasiliensis*, and comes from S.E. Brazil, (330)—*A. validus* Pelz. = *A. bolivianus* Lafr.: *Lanius unirufus*, Puch. = *A. thamnophiloides* (Spix) (330); id. T.c.—*M. ventralis*, Lafr. and d'Orb. = *Capsiempis flaveola* (Licht.) (322); HELLMAYR, Nov. Zool., **13**.—*Muscicapa cristata* vide *Knipolegus*.

Muscisaxicola vide *Knipolegus*.

Myiarchus pelzelni from Itaparica Island, Bahia, notes on, NICOLL, Ibis. **1906**, (668).—*M. ferox* subsp. n. *actiosus* RIDGWAY, Washington, D.C., Proc. Biol. Soc., **19**, (116).—*Myiarchus tuberculifer* and *nigricaps*, distribution, HELLMAYR, Nov. Zool., **13**, (26).—*Myiarchus* vide etiam *Tyrannus*.

Myiobius merius saturatus subsp. n. Peru, BERLEPSCH and STOLZMAN, Ornith., **13**, (88).

Myiotheretes striaticollis pallidus subsp. n. Tucuman, BERLEPSCH, Bull. Brit. Ornith. Cl., **16**, (98).

Ochthoeca leucophrys tucumana subsp. n. Tucuman, BERLEPSCH, l.e.

Orchilus vide *Perissotriccus*.

Ornithium pusillum subflavum, validity, HELLMAYR, Nov. Zool., **13**, (23).—*Ornithion imberbe*, nests and eggs, THAYER, Auk, **23**, (460-461).

Perissotriccus Oberholser = *Orchilus*, HELLMAYR, Nov. Zool., **13**, (22).

Pitangus sulphuratus trinitatis subsp. n. Trinidad; notes on allies; HELLMAYR, T.c. (24).

Pogonotriccus ophthalmicus vide *Leptopogon*.

Pseudocolopteryx dinellianus vide *Anaeretes*.

Rhynchocyclus klagesi **sp. n.**, RIDGWAY, Washington, D.C., Proc. Biol. Soc., **19**, (115).

Serpophaga vide *Capsiempsis*.

Todirostrum cinereum **subsp. n.** *colorum*, RIDGWAY, Washington, D.C., Proc. Biol. Soc., **19**, (115).

Tyrannulus reguloides panamensis **subsp. n.** THAYER and BANGS, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**.

Tyrannus tuberculifer, Lafr. and d'Orb. referred to *Myiarchus*.—*M. coalci*, Ridgw., *M. tricolor*, Pelz, and *M. gracilirostris*, Pelz. = *tuberculifer* (Lafr. and d'Orb.); HELLMAYR, Nov. Zool., **13**, (323–324).

PIPRIDÆ.

Chloromachæris manacus purus, note on; HELLMAYR, T.c. (27).

Corapipo leucorrhœa altera **subsp. n.** Costa Rica to Chiriqui, HELLMAYR, Bull. Brit. Ornith. Cl., **16**, (84, 85).

Neopelma vide *Muscicapa*.

Pipra; Revision of the species. HELLMAYR, Ibis, **1906**, (1–46 pl. i).—*P. gutturalis* and *leucorrhœa* referred to *corapipo* (1).—*P. dubia* Madar = *aureola* L. (6).—*P. fasciicauda*, nom. n. pro *P. fasciata*, Lafr. and d'Orb. (nec Thunb.), (9).—*P. exquisita* figured (pl i), *P. stolzmanni* **sp. n.**, Upper Amazonia (44).

P. erythrocephala berlepschi, *P. pipra bahia*, *P. pipra anthracina* **subsp. n.**; RIDGWAY, Washington, D.C., Proc. Biol. Soc., **19**.

Scotothorus olivaceus, furvus, RIDGWAY, T.c. **spp. n.**

Xenopipo subalaris Godm. = *Chloropipo unicolor* Tacz.—*C. holochlora litae* **subsp. n.** Lita. N. Ecuador, (325); Key of *Chloropipo*, (326); HELLMAYR, Nov. Zool., **13**.

COTINGIDÆ.

Atila tephrocephala **sp. n.** *A. citreopyga salvini*, and *A. citreopyga luteola* **subsp. n.** RIDGWAY, Washington, D.C., Proc. Biol. Soc., **19**, (118, 119).—*A. wighti* **sp. n.** CHERRIE, Brooklyn, N.Y., Mus. Inst. Arts. Sci., Bull., **1**.—*Atila* vide etiam *Muscicapa* in *Tyrannidae*.

Dasycephala uropygialis? = *Atila spadicea* (Gm.); HELLMAYR, Nov. Zool., **13** (330).

Laniocera hypopyrra from Para; id. T.c. (364).

Lathria unirufa elara, *L. fuseocinerea guayaquilensis*, **subsp. n.** RIDGWAY, Washington, D.C., Proc. Biol. Soc., **19**, (120).

Pachyrhamphus cinereiventris = *P. niger*, HELLMAYR, Nov. Zool., **13**, (27–28).

Ptatypharus aglaiae **subsp. n.** *yacata-nensis*, RIDGWAY, Washington, D.C., Proc. Biol. Soc., **19**, (120).

Psaris erythrogenys Selby should stand as *Tityra inquisitor erythrogenys* (Selby); HELLMAYR, Nov. Zool., **13**, (327–328).

Tityra semifasciata, columbiana and *costaricensis* **subsp. n.** RIDGWAY, Washington, D.C., Proc. Biol. Soc., **19**, (119).

HIRUNDINIDÆ.

Note sur les Hirondelles; VAN KEMPEN, Paris, Bul. soc. zool., **27**, 1902, (206).

Schwalbenbrut bei Berlin im December; FUCHS, Wild u. Hund, Berlin, **12**, 1906, (796).

Eigenartiger Schwalbenzug in der Umgebung von Lübeck; HAGEN, Ornith. Monatsber., **14**, (151–153).

Wie die Schwalben ziehen; RIEGLER, Wild u. Hund, Berlin, **12**, (636–637).

Unsere Schwalben; WEMER, Münster Jahresber. ProvVer. Wiss., **34**, (101–112).

Späte Bruten von Schwalben; WEMER, Zool. Beob., Frankfurt-a-M., **47**, (58–59).

Chelidon urbeia, lateness of breeding; GYNGELL, Zoologist, **10**, (28, 29).—*C. dasypus* in Java; BARTELS, J. Ornith. **54**, (497).

Cotile riparia, eggs and wasps; MACKEITH, Ann. Scot. Nat. Hist., **1906**, (118).

Hirundo riparia, WEMER, Umschau, Frankfurt-a-M., **10**, (90), and NatCab., Grünberg, **1906**, (132–133).—*H. rustica*, migration at Torcross, Devonshire. YERBURY, Bull. Brit. Ornith. Cl., **16**, (96, 97); in Bayern; GALLENKAMP, München, Verh. ornith. Ges., **6**, (41–100, mit Taf.); bei Bamberg; RIES, (100–106).—

H. neoarena, nesting habits, female walled in on nest by other Swallows, FLETCHER, Emu, **6**, (18, 19).—*H. rufula*, occurrence at Fair Isle: CLARKE, Ann. Scot. Nat. Hist., **1906**, (205-207), and Bull. Brit. Ornith. Cl., **19**, (18).—*H. nepalensis*, nesting habits, RATTRAY, Bombay, J. Nat. Hist. Soc., **16**, 1905, (659); nests and eggs, LA TOUCHE, Ibis, **1906**, (638, 639).—*H. christyi* sp. n. Uganda. SHARPE, Bull. Brit. Ornith. Cl., **16**, (80).

Petrochelidon lunifrons, HALES, Bird Lore, Harrisburg, Pa., **6**, 1904, (67).

Ptyonoprogne rupestris, nesting habits, RATTRAY, Bombay, J. Nat. Hist. Soc., **16**, 1905, (659).

Stelgidopteryx ruficollis and allies; HELLMAYR, Nov. Zool., **13**, (13).

MUSCICAPIDÆ.

On the correct name of the Pied Flycatcher; HARTERT, Ibis, **1906**, (571-573).

Abrornis (Hodgs.) Oates; Uebersicht und Verbreitung der Formen, BIANCHI, St. Peterburg, Bull. Ac. Sc., **23**, (49-65).

Alseonax subadusta from S.E. Rhodesia, SCLATER, P. L., Bull. Brit. Ornith. Cl., **19**, (31).—*A. griseigularis* sp. n. Toro and Uganda, JACKSON, T.c. (19, 20).—*A. melanoptera* sp. n. Toro Equatorial Africa, JACKSON, T.c. (89).

Batis diops has the sexes alike in colour, SHARPE, Ibis, **1906**, (535).

Bias feminina sp. n. Toro Equatorial Africa, JACKSON, Bull. Brit. Ornith. Cl., **16**, (87).

Butolis grisola, time of incubation; RASPAIL, Paris, Bul. soc. zool., **28**, (186-188).

Chloropeta storeyi sp. n. Chedaro E. Africa.—*C. umbriniceps* Neum. = *C. massaica* F. and R.; GRANT, Bull. Brit. Ornith. Cl., **19**, (32).—*C. graeilirostris* sp. n. S.E. Ruwenzori, id. T.c. (33).

Cryptolopha Swainson, Uebersicht und Verbreitung der Formen, BIANCHI, St. Peterburg, Bull. Ac. Sc., **23**, (49-65).—*C. affinis*, *C. castaneiceps* and *C. cantator*, nests and eggs. STUART BAKER, Ibis, **1906**, (261-263).—*C. alpina* sp. n. E. Ruwenzori Mts. Equatorial Africa, GRANT, Bull. Brit. Ornith. Cl., **16**, (117).

Cyornis cyaneus, *C. melanoleucus* and *C. sapphira*, eggs, STUART BAKER, Ibis, **1906**, (271-275).—*C. paraguayae* nom. n. pro *Siphia erithacus* Sharpe (nec Blyth), MCGREGOR, Condor, **8**, (29).

Dioptrornis brunnea in Northern Angola, HARTERT, Bull. Brit. Ornith. Cl., **16**, (46).

Gerygone kisserensis Finsch = *fulvescens* Meyer; HARTERT, Nov. Zool., **13**, (297).

Hypothymistytleri, eggs of, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (159).

Muscicapa, *Hemichelidon*, *Hedymela*, *Siphia*, *Zanthopygia*, and *Arielomyia* are not generically distinct; HARTERT, Nov. Zool., **13**, (388). *Muscicapa* vide etiam *Tyrannidae*.

Muscicapa atricapilla in Surrey; EASTWOOD, Zoologist, **10**, (313).—*M. parva* at Cairo in November, NICOLL, Bull. Brit. Ornith. Cl., **19**, (31).—*M. eollaris* in Toro Equatorial Africa, in February and March, JACKSON, Ibis, **1906**, (533, 534).—*M. grisola* must be called *M. ficedula*, Linn 1758, LÖNNBERG, J. Ornith., **1906**, (529).—*M. atricapilla*, not to be called *Ficedula ficedula*, HARTERT, Ibis, **1906**, (571-573).

Muscicapula hyperythra audacis subsp. n. Island of Babber; HARTERT, Nov. Zool., **13**, (296-297).—*M. malayana* sp. n. Malay Peninsula, GRANT, London, Bull. Brit. Ornith. Cl., **19**, (10, 11).

Petræa phorcea, migration from Australia to Tasmania, MACDONALD, Emu, **5**, (216).

Petræa leggii var. on. Kangaroo Island, CAMPBELL, T.c. (141).—*P. vittata* and *leggei*, nesting habits, FLETCHER, op. cit., **6**, (18, 19).—*P. goodenovi* near Longreach, Queensland, FORD, op. cit., **5**, (158).

Polioptila lactea Sharpe is valid; HELLMAYR, Nov. Zool., **13**, (316-317).

Pseudogerygone brunneipectus, nest and eggs, CAMPBELL, Emu, **5**, (195, 196).

Rhinomyias goodfellowi, figured, GRANT, Ibis, **1906**, (482, pl. xviii, fig. 2).

Rhipidura nigrocinnamomea, figured; HARTERT, Nov. Zool., **13**, (pl. ii, fig. 1).

Rhipidura reichenowii Finsch is a subspecies of *elegantula*; HARTERT, T.c. (297, 298).

Siphia vordermani = *Digenea* (i.e. *Erythromyias*) *dumetoria*, BARTELS, J. Ornith., **54**, (393).

Terpsiphone illex Bangs is a subspecies = *T. princeps illex*; HARTERT, Nov. Zool., **13**, (388-389).—*T. lindsayi* sp. n. Mayotte Isl., NICOLL, Bull. Brit. Ornith. Cl., **16**, (104); Ibis, **1906**, (678).

Tickellia Jerd. and Blyth, Uebersicht und Verbreitung der Arten, BIANCHI, St. Petersburg, Bull. Ac. Sc., **23**, (49-65).

Trochocercus toroensis sp. n. Equatorial Africa, JACKSON, Bull. Brit. Ornith. Cl., **19**, (20).

Xanthopygia affinis sp. n. Formosa, GRANT, op. cit. **16**, (118).—*X. tricolor*, nests and eggs, LA TOUCHE, Ibis, **1906**, (622-624).

CAMPOPHAGIDAE.

Perierocetus peregrinus, eggs, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (157).—*P. albifrons*, nest and eggs, STUART BAKER, Ibis, **1906**, (266, 267).—*P. johnstoniae* figured, GRANT, T.c. (pl. xix).

PYCNONOTIDAE.

Ixocincla madagascariensis from Mayotte Isl., NICOLL, Ibis, **1906**, (679).

Pycnonotus, characters and distribution of the African forms; HARTERT, Nov. Zool., **13**, (389-392), and REICHENOW, T.c. (762).—*P. barbatus* and its allies, NEUMANN, J. Ornith., **54**, (241).

Spizixus semitorques, nesting at Chinkiang Lower Yangtze, LA TOUCHE, Ibis, **1906**, (440, 441).

Stelgidillus hypochloris sp. n. Toro Equatorial Africa, JACKSON, Bull. Brit. Ornith. Cl., **19**, (20).

TIMELIIDAE.

Actinodura morrisoniana sp. n. Formosa, GRANT, Bull. Brit. Ornith. Cl., **16**, (119-120).

Alcippe; Notes on the African species, SHARPE, Ibis, **1906**, (541, 542).—*A. pyrr. optera* from Java, synonymy, FINSCH, O., J. Ornith., **54**, (403).—*A. obscurior* sp. n. Formosa, GRANT, London, Bull. Brit. Ornith. Cl., **16**, (121), but *Schorniparus brunneus* (GOULD),

id. op. cit. **19**, (14); the latter distinct from *S. superciliaris* (David) from Accria, id. T.c. (14).—*Alcippe kilimensis* = *A. abyssinica*, NEUMANN, J. Ornith., **54**, (281).

Argya longirostris, nests and eggs, STUART BAKER, Ibis, **1906**, (92, 93).

Babax David; dessen Formen und ihre Verbreitung, BIANCHI, St. Petersburg, Bull. Ac. Sc., **23**, (41-48).—*B. waddelli* Dresser, vide Kasnakowia.—Eggs, DRESSER Ibis, **1906**, (339).

Bathmedonia fuscipennis (Sharpe) = *B. rufa* (Reichen) S. juv., notes on *B. jacksoni*; SHARPE, T.c. (542).

Brachypteryx wrayi sp. n. Malay Peninsula, GRANT, London, Bull. Brit. Ornith. Cl., **19**, (10).

Crateropus plebeius kikuyuensis, subsp. n. Equat. Africa, NEUMANN Ornith. Monatsber. Berlin, **14**, (7).—*Crateropus*; further notes on, i.d. T.c. (144-149); *C. cordofanicus*, Butler = *plebeius* (Rüpp.) (144); notes on *C. hypostictus emini affinis platycircus* etc. (144-147); *C. plebeius permistus* sp. n. ? Senegal (146, 147); key to the species of *Crateropus* (149).—*Drymocotaphus assamensis*, nests and eggs, STUART BAKER, Ibis, **1906**, (98-100).

Dryonastes vassali sp. n. Int. of Annam. GRANT, London, Bull. Brit. Ornith. Cl., **19**, (13).

Gampsorhynchus rufulus, nests and eggs, STUART BAKER, Ibis, **1906**, (96, 97).

Ianthocincla victoriae sp. n. S. Chin Hills Burma, RIPPON, London, Bull. Brit. Ornith. Cl., **16**, (47).

Itaphidia rufigenis, nest and eggs, STUART BAKER, Ibis, **1906**, (110, 111).

Kaznakowia gen. n. *kozlori* sp. n. und *Babax waddelli* Dresser, BIANCHI, St. Petersburg, Bull. Ac. Sc., **23**, (41-48).

Mixornis erythroptera, note on, FINSCH, J. Ornith., **54**, (403).

Pomatorhinus; difference in nests of Indian and Australian species, CAMPBELL, Emu, **6**, (27).

Proparus formosanus sp. n. Mt. Morrison, GRANT, London Bull. Brit. Ornith. Cl., **16**, (120, 121).

Pseudotharrhaleus griseipectus Mearns = *P. unicolor* Hartert; GRANT Ibis, **1906**, (479).

Pseuloxenicus (olim *oligura*) referred *Xeniscidae*; BARTELS, J. Ornith., **54**, (501).

Psophodes crepitans, nest, eggs and young, MATTINGLEY, Emu, **5**, (192-195, pls. xv, xvi).

Rimator malacoptilus, nest and eggs, STUART BAKER, Ibis, **1906**, (104-106).

Schoeniparus rufigularis, nest and eggs id., T.c. (102-104).

Sphenaeacus punctatus, nesting-habits, notes on allied species, McLEANE, Emu, **6**, (1-7, pls. i-iv).

Thringorhina oglei, nests and eggs, STUART BAKER, Ibis, **1906**, (100, 101).

Trochalopteron morrisonianum sp. n. Formosa, GRANT, London, Bull. Brit. Ornith. Cl., **16**, (120).—*T. yunnanense*, sp. n. Yangtze River W. Yun-nan, RIPPON, op. cit. **19**, (32).

Turdinus stictigula sp. n. Usambara REICHENOW, Ornith. Monatsber. Berlin, **14**, (10).—*Turdinus atriceps* referred to *Aleippe*, near *T. abyssinicus*, SHARPE, Ibis, **1906**, (541, 542).—*Turdinus barakae*, sp. n. Toro Equatorial Africa, JACKSON, London, Bull. Brit. Ornith. Cl., **16**, (90).

Yuhina brunneiceps sp. n. Formosa, GRANT, London, Bull. Brit. Ornith. Cl., **16**, (121, 122).

PARADOXORNITHIDAE.

Panurus should be placed with the *Paradoxornithinae*, HARTERT, Nov. Zool., **13**, (387).

Paradoxornis heudei near *Chin-kiang*, LA TOUCHE, Ibis, **1906**, (438).

Suthora morrisoniana sp. n. Formosa, GRANT, London, Bull. Brit. Ornith. Cl., **16**, (119).—*S. nebbiana* near *Chin-kiang*, LA TOUCHE, Ibis, **1906**, (437, 438).

TROGLODYTIDAE.

Anorthura Rennie, = *Nannus* Billberg, LONNBERG, J. Ornith., **54**, (532).—*A. tarbagataica* sp. n. Central Asia, SUSHKIN, London, Bull. Brit. Ornith. Cl., **16**, (57, 58).

Heleodytes simonsi sp. n. Peru, CHUBB, op. cit. **19**, (34).

Heteroenemis bicolor Des Murs = *Microcerculus marginatus* (Scl.); HELLMAYR, Nov. Zool., **13**, (354); first record from Para id. l.c. *M. marginatus occidentalis* subsp. n. N. W. Ecuador, id. T.c. (354, 355).

Orthocichla subulata advena subsp. n. Island of Babber; HARTERT, T.c. (298, 299).

Thryorchilus ridgwayi sp. n. BANGS, Washington, D.C., Proc. Biol. Soc., **19**, (108).

Troglodytes parvulus, nesting habits, ELMS, Zoologist, **10**, (27, 28); notes on a var., WHISTLER, T.c. (391, 392).

CINCLIDAE.

Cinclus; Arten aus dem Geb. Semi-palatinsk, BUTURLIN. Prov. i ruzejn. ochota, Moskva, **12**, (318).—*C. cinclus*, fischwirtschaftliche Bedeutung, VOLLNHOFFER, Erd. kis., Selmeczbánya, **8**, (1-81); *C. cinclus persicus* subsp. n. S. W. Persia, WITHERBY, London, Bull. Brit. Ornith. Cl., **16**, (71, 72).—*C. rufiventris* from the Caucasus. BUTURLIN, Ibis, **1906**, (414, 415).

MIMIDAE.

Mimus polyglottos leucopterus, habits, EMERSON, Condor, **8**, (51, 52) and RICHARDSON, T.c. (56).

TURDIDAE.

Amsel und Singdrossel in den Städten. KILLERMANN, Natw. Wochenschr., **21**, (321-325).

Die Kramtsvogelfrage. SCHINZINGER, Monatshefte Jagdschutzver., **11**, (330-338, 348-359).

Accentor talifuensis sp. n. W. Yun-nan, RIPPON, London, Bull. Brit. Ornith. Cl., **19**, (19).

Alethe woosnami sp. n. N.W. Ruwenzori Mts. GRANT, T.c. (24, 25).—*A. carruthersi* sp. n. Entebbe to W. Ruwenzori. T.c. (25).

Callene aequatorialis sp. n. Lumbwa Equatorial Africa, JACKSON, op. cit. **16**, (46, 47).

Cittocinclu albirentis, eggs, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (160).

Cossypha semirufa saturator subsp. n. Lakes of S. Ethiopia and Orno Region, NEUMANN, Ornith. Monatsber.,

14, (87); also Remarks on, *id.* J. Ornith., **54**, (283).—*C. bicolor*, eggs, HAAGNER, London, Bull. Brit. Ornith. Cl., **19**, (23).

Ephthiamura tricolor near Longreach, Queensland, FORD, Emu, **5**, (158).

Erithacus rubecula microrhynchus von Maderia. REICHENOW, J. Ornith., **54**, (153).—*Erythacus swynnertoni* **sp. n.** Gaza Land, SHELLEY, London, Bull. Brit. Ornith. Cl., **16**, (125).

Erythropygia hamertoni **sp. n.** Somali Land, GRANT, *op. cit.* **19**, (24).

Cyanecula suecica on Fair Island: CLARKE, Ann. Scot. Nat. Hist., **1906**, (21), and CLARKE and KINNEAR, T.c. (327); in Egypt, LOAT, Ibis, **1906**, (115, 116).—*C. suecica*, KULLMANN, Gefied. Welt, Magdeburg, **35**, (183); Bemerkung dazu v. Josef Wagner, T.c. (200).

Geocichla andromeda from Mt. Apo Mindanao, GRANT, Ibis, **1906**, (477, 478).—*G. lunulata* on Kangaroo Island. CAMPBELL, Emu, **5**, (141).—*G. andamanensis*, eggs, OSMASTON, Bombay, Nat. Hist. Soc., **17**, (160).

Ianthia johnstoniae **sp. n.** Formosa, GRANT, London, Bull. Brit. Ornith. Cl. **16**, (118, 119).

Merula vulgaris, Aufzucht und Pflege, KLEMENZ, Psov. i ružejn. ochota, Moskva, **12**, (146, 147, 162, 163).—*Merula merula*, laying twice in the same nest, RALFE, Zoologist, **10**, (390).—*M. relictæ* **sp. n.** Semirěčje-Gebiet, ZARUDNY und KOREIEV, Mat. faun. flor. Ross., Zool., **7**, (146-247).—*M. barakæ* probably = *M. abyssinica*; *M. johnstoni* **sp. n.** Entebbe, SHARPE, Ibis, **1906**, (543).—*M. ruficollis atrigularis* in Semirěčje-Gebiet, ZARUDNY u. KOREIEV, Mat. faun. flor. Ross., Zool., **7**, (146-247).—*M. boulboul*, breeding in confinement, BUTLER, Avicult. Mag. Brighton, **2**, **4**, (312-314).—*M. castanea*, nest. RATTRAY, Bombay, J. Nat. Hist. Soc. **16**, 1905, (657).—*M. celaeenops yakushimensis* **subsp. n.** Yakushima, OGAWA, Annot. Zool., Jap., **5**, (1905) (180-182).

Monticola cyana, breeding in Belgium, record untrustworthy. DU BOIS, Ornith. London, **13**, (135).—*M. explorator*, eggs. HAAGNER, London, Bull. Brit. Ornith. Cl., **19**, (23).

Neocossyphus praepectoralis **sp. n.** Equatorial Africa, JACKSON, *op. cit.* **16**, (90).

Oreocinclæ dauma, nesting, RATTRAY, Bombay J. Nat. Hist. Soc., **16**, 1905, (657).

Oreicolæ jerdoni, nest and eggs described, STUART BAKER, Ibis, **1906**, (280-283).

Pentholæa albifrons pachyrhyncha **subsp. n.** NEUMANN, Ornith. Monatsber., **14**, (6-8) and J. Ornith., **54**, (289).—*P. macmillani* **sp. n.** Omo River, N.E. Africa, SHARPE, London, Bull. Brit. Ornith. Cl., **16**, (126).

Petrophila erythrogastra, nesting habits, RATTRAY, Bombay, J. Nat. Hist. Soc., **16**, 1905, (657).

Pinarochroa; List of species. NEUMANN, J. Ornith., **54**, (291-293).—*P. sordida djamdjamensis* **subsp. n.** S. Ethiopia. *id.* T.c. (291).

Pratincola; notes on *P. maura* in N. E. Africa and other African species, NEUMANN, T.c. (295-297).—*P. maura* nesting in the Caucasus, BUTURLIN, Ibis, **1906**, (415, 416).—*P. rubetra*, in Herts, WESTELL, Zoologist, **10**, (31).—*P. variegata* (Gm.) distinct from *P. maura*; *P. hemprichii*, notes on, KLEINSCHMIDT, J. Ornith., **54**, (526, 527).

Ruticilla phœnicurus bonapartii. Remarks on, NEUMANN, T.c. (294).—*Ruticilla titys*, in Orkney; COWAN, Ann. Scot. Nat. Hist., **1906**, (51).

Saxicola oenanthe leucorrhœa (Gm.) auf den ostfriesischen Inseln, LEEGE, Ornith. Monatsber., **14**, (4, 5); PARROT, T.c. (62).—*S.*, at Pentland Skerries, CLARKE, Ann. Scot. Nat. Hist., **1906**, (138, 139).—*S. stapazina* in Kent, TICEHURST, London, Bull. Brit. Ornith. Cl., **19**, (124, 125).—*S. borealis*, Phaenologie, HERMAN, Aquila, **13**, (i-x).

Tarsiger johnstoni montanus **subsp. n.** Usambara, REICHENOW, Ornith. Monatsber., Berlin, **14**, (172).—*T. ruwenzorii* **sp. n.** E. Ruwenzori, GRANT, London, Bull. Brit. Ornith. Cl., **19**, (33).

Thamnolæa claudi from Pettia, E. Soudan. ALEXANDER, *op. cit.* **16**, (124).

Turdus gurneyi and allies, NEUMANN, J. Ornith., **54**, (286, 287).—*T. pilaris* at Cairo in November, NICOLL, London, Bull. Brit. Ornith. Cl., **19**, (31).—*T. dubius* in Nottinghamshire, MUSTERS,

op. cit. **16**, (45).—*T. fuscata ockendeni* **subsp. n.** S.E. Peru, HELLMAYR, T.c. (91); *T. fuscater* and its allies, id. T.c. (92).—*T. musicus*, Aufzucht und Pflege, KLEMENZ, Psov. i ružejn. ochota, Moskva, **12**, (146, 147, 162, 163).—*T. obscurus* in Toscana, ARRIGHI GRIFOLI, Boll. Soc. zool. ital., Ser. 2, **6**, (83, 81).—*T. obscurus, sibiricus, atrigularis, varius, migratorius*, in Belgium, DUBOIS, Ornith., **13**, (131, 135).—*T. merula*, laying twice in same nest, WORKMAN, Zoologist, **10**, (235), MORRIS, T.c. (274, 275), APLIN, T.c. (312), STEELE-ELLIOTT, l.c.—frühzeitig, HENNICKE, Ornith. Monatschr., Gera, **31**, (124); SNOUCKAERT VAN SCHAUURG, Ornith. Monatsber., **14**, (62); HORNUNG, Zool. Beob., Frankfurt a. M., **47**, (176–178); KNAUER, Umschau, Frankfurt a. M., **10**, (966–969); Albino, SALZMANN, Ornith. Monatschr., Gera, **31**, (85), and HÉMERY, Nantes, Bul. soc. sci. nat., **6**, 1906, (vii–viii).

SYLVIIDAE.

Sylviidae of Solway, SERVICE, Glasgow, Trans. Nat. Hist. Soc., Ser. 2, **7**, (137–147).

Aus dem Leben unserer Grasmücken, HÖCKE, Gefied. Welt, **35**, (281, 282, 289, 290).

Acanthiza zietzi **sp. n.** Kangaroo Island, NORTH, Emu, **6**, (78).—*A. halmaturina* **sp. n.** Kangaroo Island, CAMPBELL, op. cit. **5**, (141, 142); nest and eggs, (196).

Acanthornis magna, habits, BUTLER, T.c. (156, 157).

Acrocephalus palustris, a breeding record, FOWLER, Zoologist, **10**, (401–409).—*A. streperus*, at Fair Isle; CLARKE and KINNAER, Ann. Scot. Nat. Hist., **1906**, (236).—*A. bostrigiceps* and *agricola* in China, notes on, LA TOUCHE, Ibis, **1906**, (444–445).—*A.*, WEMER, Münster, Jahresber. ProvVer. Wiss., **34**, (90–101).

Amytornis woodwardi, adult male figured; HARTERT, Nov. Zool., **13**, (pl. i., fig. 1).

Apalis flava malensis **subsp. n.** Male Land, S. Ethiopia, NEUMANN, J. Ornith., Leipzig, **54**, (278).—*A. chirindensis* **sp. n.** Chirinda Forest, SHELLEY, London, Bull. Brit. Ornith. Cl., **16**, (126).—*A. affinis* **sp. n.** Ruwenzori Mts., GRANT, T.c. (116, 117).

Bradypterus barakae, nom. n. pro *B. rufescens* (Sharpe 1902, nec Sharpe 1876), SHARPE, Ibis, **1906**, (546).

Calamocichla ansorgei **sp. n.** N. Angola, HARTERT, London, Bull. Brit. Ornith. Cl., **16**, (52, 53).

Calamodus aquaticus, aus dem Gouv. Pensa, BUTURLIN, Psov. i. ružejn. ochota, Moskva, **12**, (318).

Cettia minuta (Sw.) is the female of *C. canturiens* (Sw.), nests and eggs described, LA TOUCHE, Ibis, **1906**, (447–450).

Cisticola robusta and its allies, notes, NEUMANN, J. Ornith., Leipzig, **54**, (264–266).—*C. r. schroderi*, **subsp. n.** N. Abyssinia, id. T.c. (265).—*C. natalensis inexpectata* **subsp. n.** Shoa and S. Ethiopia, id. T.c. (268, 269); Cf. REICHENOW, T.c. (322).—*C. blanfordi sobatensis* = *C. lugubris blanfordi*, id. T.c. (270).—*C. lugubris* and its allies, id. T.c. (270–274).—*C. lugubris suahelica* **subsp. n.** German E. Africa, id. T.c. (272).—*C. calamoherde* = *C. hypoxantha*, id. T.c. (276); Distinct, REICHENOW, T.c. (276).—*C. schillingsi* = *C. fischerii*, NEUMANN, T.c. (208); is distinct, REICHENOW, T.c. (322).—*C. hypoxantha* probably = *C. rufa*, REICHENOW, T.c. (322).—*C. ansorgei* **sp. n.** Benguela, NEUMANN, London, Bull. Brit. Ornith. Cl., **16**, (114, 115).—*C. heterophrys* **sp. n.**, OBERHOLSER, Pittsburg, Pa., Ann. Carnegie Mus., **3**, (496).—*C. harri-soni* **sp. n.**, STONE, Philadelphia, Pa., Proc. Acad. Nat. Sci., **57**, (771).

Euprinodes nigrescens **sp. n.** Equatorial Africa, JACKSON, London, Bull. Brit. Ornith. Cl., **16**, (90).

Locustella naevia, occurrence in Midlothian; WHYTE, Zoologist, **10**, (468).—*L. lanceolata, certhiola*, and *fasciolata*, near Chinkiang, LA TOUCHE, Ibis, **1906**, (442, 443).—*L. lanceolata* in Java, BARTELS, J. Ornith., Leipzig, **54**, (519).

Luscinia, nomenclatorial, OBERHOLSER, Auk, **23**, (228–229); Klarstellung des Sprosser-Wirrwarr, RAUSCH, Gefied. Welt, **35**, (290–292, 298–300, 306–307, 314–315).—*L. luscinia*, SCHUSTER, Zool. Beob., **47**, (276–279).

Malurus; notes on the moulting, CAMPBELL, Emu, **5**, (152–155).—*M. cyaneus*, breeding in captivity; PHILLIPS,

R. Avicult. Mag., Brighton, Ser. 2, 4, (228-235).

Motacilla hippolais Linn. 1758 is the type of Schäffer's genus *Ficedula*, LÖNNBERG, *J. Ornith.*, **54**, (530).

(*Orcoscopus* **gen. n.** (for *Sericornis gutturalis*, De Vis), NORTH, *Agric. Gaz.*, Sydney, N.S.W., **16**, (247-250).

Phylloscopus rufus, date of singing, GYNGELL, *Zoologist*, **10**, (35); occurrence in Northumberland in December, CHARLTON, *T.c.* (27).—*P. rufus* and *P. trochilus*, migration in Ireland, WILLIAMS, *Irish Nat.*, **15**, (194).—*P. superciliosus*, on Fair island, CLARKE, *Ann. Scot. Nat. Hist.*, **1906**, (21, 237).—*P. trochilus*, nesting habits, ELMS, *Zoologist*, **10**, (27-28).—*P. tristis* from Suliskerry, W. of Orkney, CLARKE, London, *Bull. Brit. Ornith. Cl.*, **16**, (18).—*P. viridanus*, THIENEMANN, *Ornith. Monatsber.*, **14**, (89-90).—*P. bonellii*, GENGLE, *Zool. Beob.*, Frankfurt a M., **47**, (273-275); BAU, *Zs. Oologie*, **16**, (65-68).

Sylvia atricapilla, LÜDERS, *Gefied. Welt*, **35**, (315-316, 324-325); on the mimical song, JOY, *Zoologist*, **10**, (108, 109); in West Ross-shire, FOWLER, *Ann. Scot. Nat. Hist.*, **1906**, (51).—*S. curruca*, von Ust'-Kamenogorsk, BUTURLIN, *Prov. i. ružejn. ochota, Moskva*, **12**, (318).—*S. nisoria* near Leipzig, VOIGT, *Ornith. Monatsber.*, **14**, (174-175).

Sylviella major different from *S. jacksoni*, *id. T.c.*, (286).—*S. micrura* and *S. leucopsis*, notes on, REICHENOW, (322, 323).—*S. denti* **sp. n.** Ruwenzori Mts., GRANT, W. R. O., London, *Bull. Brit. Ornith. Cl.*, **19**, (25).

Sylvietta brachyura **subsp. n. nilotica**, NEUMANN, *J. Ornith.*, **54**, (279).

Sphenura broadbenti, nesting, BELCHER, *Geelong Nat.*, **1906**, Cf. *Emu*, **6**, (26).

Stipiturus, notes on the three species known; **sp. n.** from the Mallee; *Emu*, **6**, (38).

VIREONIDÆ.

Curruca olivacea, Less. = *Vireo chiri* (Vieill.), HELLMAYR, *Nov. Zool.*, **13**, (317).

Cylorhis flavipectus canticus Bangs is inseparable from *flavipectus*, Scl., *id. T.c.* (10).

Pachysylvia aurantiifrons saturata nom. nov., review of allied species, *id. T.c.* (12).

Vireo gilvus swainsoni and *V. solitarius cassini*, habits, HEAD, *Condor*, **8**, (149-150).—*V. olivaceus*, habits, HERBICK, *Bird Lore*, Harrisburg, Pa., **6**, 1904, (113-116).—*V. huttoni oberholseri*, notes on, GRINNELL, *Condor*, **8**, 1906, (148-149).—*V. chiri?* a subspecies, HELLMAYR, *Nov. Zool.*, **13**, (11).

ARTAMIDÆ.

Artamus phœus, gracilis, florencise, **spp. n.** Northern Territory of South Australia, INGRAM, London, *Bull. Brit. Ornith. Cl.*, **16**, (115-116).—*A. leucogaster*, eggs, OSMASTON, Bombay, *J. Nat. Hist. Soc.*, **17**, (157).

PRIONOPIDÆ.

Colluricincla woodwardii, male figured, HARTERT, *Nov. Zool.*, **13**, (pl. i, fig. 2).

Grallina picata on Luang island, *id. T.c.* (304).

LANIDÆ.

Craeticus quoyi and *rufescens*, moulting, CORNWALL, *Emu*, **6** (83), Le Souef, *l.c.*—*C. leucopterus*, NORTH, *Zool. Anz.*, **30**, (861-862).

Dryoscopus alboblagatus **sp. n.** Doinyo Narok Mt. E. Africa, JACKSON London, *Bull. Brit. Ornith. Cl.*, **16**, (90).—*D. holomelas* **sp. n.** Mt. Ruwenzori. *id. T.c.* (90).

Enneoctonus colluris kobylini **subsp. n.** Caucasus, BUTURLIN, *Ibis*, **1906**, (416).

Eopsaltria australis as a snake-finder, BRAY, *Emu*, **5**, (217).

Gymnorhina tibicen longirostris Milligan, priority; HARTERT, *Nov. Zool.*, **13**, (755).—*G. leuconota*, song, MADDEN, *Emu*, **5**, (205, 206).

Hyloterpe apoensis from Samar, Leyte, Dinagat, Basilan, and Mindanao, GRANT, *Ibis*, **1906**, (475, 476).

Lanius, notes on many species. SCHIEBEL, *J. Ornith.*, **54**, (1-77, Taf. A-N.).—*L. cristatus* (Taf. B, fig. 1), *darwinii*, *L. c. superciliosus* (Taf. B, figs. 2-4), *L. phaenicuroides romanowi* (fig. 5), *L. p. karelini*, *isabellinus* (Taf. B, fig. 6), *L. lucionensis* (Taf. F, fig. 4),

tigrinus (Taf. C, fig. 1), *collurio* (Taf. F, figs. 5-6, Taf. C, fig. 2), *gubernater vittatus* (Taf. F, fig. 7), *hypoleucus, bucephalus* (Taf. C, fig. 4 and Taf. D, fig. 1), *excubitor (borealis)* (Taf. D, figs. 2, 3), *L. e. (major)*, *L. e. (excubitor)*, *L. e. homeyeri*, *L. e. (leucopterus)*, *L. meridionalis meridionalis*, *L. m. algeriensis*, *L. m. uncinatus*, *L. m. dodsoni*, *L. m. koenigi*, *L. m. (elegans)*, *L. m. assimilis*, *L. m. fallax*, *L. sphenocercus, giganteus, lübberti, ludoricianus* (Taf. D, fig. 4), and allies; remarks on all these species and allied forms. SCHIEBEL, J. Ornith., **1906**, (1-77, pls. A-H).—*L. tephronotus* (Taf. E, fig. 1), *L. schaeh caniceps* and *L. s. erythronotus* (Taf. E, fig. 2), *L. s. schaeh* (Taf. E, fig. 3), *L. nasutus* (Taf. E, fig. 5), *L. n. nigriceps* (Taf. E, fig. 5), *L. n. cephalomelas*, *L. minor* (Taf. F, figs. 2, 3), *L. fuscatus* (Taf. F, fig. 6), *L. excubitoricus* (Taf. G, fig. 2), *L. böhmi*, *L. caudatus* (Taf. G, fig. 3, and Taf. E, fig. 7), *L. corvinus corvinus*, *L. e. affinis* (Taf. G, fig. 4), *L. e. togoensis*, *L. subcoronatus* (Taf. H, fig. 2), *L. collaris humeralis* (Taf. H, fig. 3 and Taf. G, fig. 5), *L. Mackinmoni* (Taf. H, fig. 1, and Taf. G, fig. 6), *L. souzse* (Taf. G, fig. 1), *L. pomeranus badius* (Taf. H, figs. 4, 5), *L. nubicus* (Taf. C, fig. 3, and Taf. H, figs. 6, 7); descriptions of all species. SCHIEBEL, T.c. (161-219).—*L. phoenicuroides* and allies, SUSHKIN, London, Bull. Brit. Ornith. Cl., **16**, (58-61).—*L. raddei*, breeding on the W. Altai Mts. and the Northern slopes of the Tarbagatai Mts. (58); *L. raddei*, *L. infuscatus*, *L. eleagni* = *L. phoenicuroides*, (58, 59), *L. romanowi* Bogd. = *L. phoenicuroides*, *L. varius*, Sarudny = *L. bogdanowi*, (59), *L. phoenicuroides*, **ab. n. analogus**, (60), *L. pseudocollurio* **subsp. n.** W. Altai Mts. and Tarbagatai Mts., (60 & 61), *L. dichrurus*, Menzb. = *L. rodlei*, (61).—*L.*, critical notes; *L. cabanisi*, **nom. n. pro caudatus** Cabanis (nec Brehm), (404); HARTERT, Nov. Zool., **13**, (392-405).—*L. excubitor* and allies, note, SCHALOW, J. Ornith., **54**, (558).—*L. ludoricianus gambeli*, food, STEPHENS, Condor, **8**, (130).—*L. major*, occurrence in Ireland; FOSTER, Irish Nat., **15**, (156).—*L. collurio*, breeding in captivity; GUNTHER, Avicult. Mag., Brighton, ser. 2, **5**; *L. collurio*, HERMANN, Natur u. Haus, Dresden, **15**, (58-62); OTTO, Ornith. Monatsber., **14**, (172-173); SCHEIN, Gera, Jahresber. Ges.

Natw., **46-48**, (174-175); RENDLE, Gefied. Welt, **35**, (105-106, 113-114, 121-122, 130-131, 137-138); VOIGT, Ornith. Monatschr., Gera, **31**, (14-16).

Malacocephalus poliocephalus, NEUMANN, J. Ornith., **54**, (155-156).

Pachycephala melanura tepa **subsp. n.**, Island of Babber; *P. melanura arthuri* **subsp. n.**, Island of Wetter; HARTERT, Nov. Zool., **13**, (299).—*P. intermedia*? on Kangaroo Island; CAMPBELL, Emu, **5**, (142).

Pomatorhynchus senegalus **subsp. n. armenus**, OBERHOLSER, Washington, D.C., U. S. Nation. Mus. Proc., **30**, (809).

Strepera melanoptera on Kangaroo Island, CAMPBELL, Emu, **5**, (141, pl. xiii).—*S. graeculina*, introduced into Ceylon. *id.* T.c. (231-232).

Telephonus tschagra, and *T. australis*, eggs, HAAGNER, A., London, Bull. Brit. Ornith. Cl., **19**, (22, 23).

PARIDE.

Eichhörnchenmester als Schlafstätten der Meisen; WEMER, Zool. Beob., Frankfurt a. M., **47**, (153-154).

Aeredula caudata, nesting habit; ELMS, Zoologist, **10**, (28).—*A. caudata major* from the Caucasus; BUTURLIN, Ibis, **1906**, (420).—*A. rinacea* (Verr.) appears to be the young of *glaucoocularis* Gould; LA TOUCHE, T.c. (436).

Egithalus caudatus, Nahrung, CSIKI, Aquila, **13**, (148-161).—*E. roseus*, feathers in nest; READ, Bull. Brit. Ornith. Cl., **19**, (22).—*E. consobrinus* near Chiakiang, LA TOUCHE, Ibis, **1906**, (436-437).

Anthoscopus, review of species; HARTERT, Nov. Zool., **13**, (386-387).—*A. roccatii* **sp. n.** Entebbe, SALVADORI, Boll. Mus. Torino, **21**, No. 542, (2).

Baeolophus inornatus, status, GRINNELL, Auk, **23**, (186-188).

Cyanistes caeruleus, *C. persicus*, *C. caeruleus orientalis*, notes, BUTURLIN, Ibis, **1906**, (419).

Parus, the species of Coal-Tits of the palaearctic region; *P. vieirae* **sp. n.** Coimbra; NICHOLSON, Manchester Mem. Lit. Phil. Soc., **50**, No. **13**, (16 pl. 1, fig. 1).—*P. britannicus*, figured, (pl. i, fig. 2).—*P. palustris* in Argyll; ALSTON, Ann. Scot. Nat. Hist.,

1906, (51, 52); at Chinkiang, LA TOUCHE, Ibis, **1906**, (435).—*P. palustris longirostris*, *P. atricapillus rhenanus* und *P. a. borealis*, in den Niederlanden, SNOUCKAERT VAN SCHAUBURG, Amsterdam, Versl. Med. Ned. Ornith. Ver., **3**, (3-10).—*P. salicarius* in Silesia, TISCHLER, Ornith. Monatsber., **14**, (61).—*P. atricapillus occidentalis*, habits, FINLAY, Condor, **8**, (63-67, pl.).—*P. ater* Food, CSIKI, Aquila, **13**, (148-161).—*P. niger lacuum* subsp. n., Shoa; NEUMANN, J. Ornith., **54**, (260).

Psaltiriparus plumbeus cecaumenorum subsp. n., C. SONORA. THAYER and BANGS, Washington, D.C., Proc. Biol. Soc., **19**, (17-22).

Remiza pendulina, nesting, in Prussian Silesia, KOLLIBAY, Ornith. Monatsber., **14**, (3); Food, CSIKI, Aquila, **13**, (148-161).

REGULIDÆ.

Regulus regulus interni subsp. n. Corsica and Sardinia, HARTERT, Bull. Brit. Ornith. Cl., **16**, (45).—*R. ignicapillus*, in Dorset, LESTER, Zoologist, **10**, (149); near Tonbridge, ALEXANDER, T.c. (149); at Wimbledon, RENAUT, London, Bull. Brit. Ornith. Cl., **16**, (45); in Kent, GRANT, T.c. (45); in Sussex, MORRIS, Zoologist, **10**, (188).—*R. goodfellowi* sp. n. Formosa, GRANT, Bull. Brit. Ornith. Cl., **16**, (122).—*R. yunnanensis* sp. n. W. Yun-nan, RIPPON, op. cit. **19**, (19).

Sylviparus saturator sp. n. S. Chin Hills, RIPPON, op. cit. **16**, (87).

SITTIDÆ.

Sitta corea sp. n. Corea, GRANT, London, Bull. Brit. Ornith. Cl., **16**, (87-88).—*S. europaea caucasica* from Transcaucasia, BUTURLIN, Ibis, **1906**, (417).—*S. syriaca parva* subsp. n. Transcaucasia. *id.* T.c. (417).—*S. dresseri* sp. n. E. Persia, SARUNY and BUTURLIN, Ornith. Monatsber., **14**, (132).

Sittella striata, female. CAMPBELL, Emu, **6**, (15-16).

CERTHIDÆ.

Certhia familiaris u. *C. brachydactyla*, PARROT, München, Verh. ornith. Ges., **6**, (12).—*C. familiaris* from Transcaucasia, BUTURLIN, Ibis, **1906**, (420).—*C. brachydactyla brachydactyla* in den Niederlanden, *C. familiaris*, SNOUCKAERT VAN (N-9720 g)

SCHAUBURG, Amsterdam, Versl. Med. Ned. Ornith. Ver., **3**, (3-10).—*C. victorie* sp. n. S. Chin Hills, RIPPON, Bull. Brit. Ornith. Cl., **16**, (87).

Salpornis; Notes on the African species; NEUMANN, J. Ornith., **54**, (259).

Tichodroma muraria in Serbien, RZEHA, Ornith. Monatschr., Gera, **31**, (122-124); at Eastbourne; its occurrences in England, BUTTERFIELD, Bull. Brit. Ornith. Cl., **16**, (44).—*T. muraria*, N. W. Kiangsu, LA TOUCHE, Ibis, **1906**, (442).

ZOSTEROPIDÆ.

Hypocryptadius cinnamomeus, figured, GRANT, Ibis, **1906**, (473, pl. xviii, fig. 1).

Zosterops cerulescens, habits, nesting. etc., DORE, Emu, **6**, (53-55).—*Z. palpebrosa*, eggs, OSMASTON (156), J. Bombay, Nat. Hist. Soc., **17**.—*Z. japonica insularis* subsp. n. Yakushima; OGAWA, Annot. Zool. Jap., **5**, (186-188).—*Z. tahanensis* sp. n. Malay Peninsula, GRANT, London, Bull. Brit. Ornith. Cl., **19**, (10).—*Z. kühni* sp. n. Amboina, HARTERT, op. cit. **16**, (81).—*Z. halimaturina* sp. n. Kangaroo Island, CAMPBELL, Emu, **5**, (143).

DICÆIDÆ.

Dicaeum mackloti romae subsp. n. Island of Roma; HARTERT, Nov. Zool., **13**, (300).

NECTARINIIDÆ.

Anthreptes longmari haussarum subsp. n. Togoland, *A. l. angolensis* subsp. n. Angola, etc., *A. l. nyassæ* subsp. n. E. and S. Nyasa Lake to Mashona Land; NEUMANN, Ornith. Monatsber., **14**, (67).—*A. longmari* and its allies; *A. l. orientalis*, *haussarum*, *angolensis*, *nyassæ*, subsp. n., NEUMANN, J. Ornith., **54**, (244-247).

Arachnechthra andamanica, eggs, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (161).

Cinnyris obscurus and allies, Note on, NEUMANN, J. Ornith., **54**, (249).—*C. senegalensis* and allies. *id.* T.c. (252-256).—*C. niassæ* from S.E. Rhodesia, SCLATER, London, Bull. Brit. Ornith. Cl., **19**, (31).—*C. coquereli*, female described, NICOLL, Ibis, **1906**, (679).—*C. habessinicus alter*, subsp. n. N. Somali Land to Harar, NEUMANN, Ornith. Monatsber., **14**,

(7).—*C. mahei* sp. n. Mahé Isl., Seychelles, NICOLL, London, Bull. Brit. Ornith. Cl., **16**, (106).

Nectarinia tokazze, *N. t. jacksoni* and *N. t. unisplendens*, notes on, NEUMANN, J. Ornith., **54**, (257-258).—*N. takazze*, eggs, NEUMANN, T.c. (300).—*N. dartmouthi* sp. n. E. Ruwenzori Mts., GRANT, London, Bull. Brit. Ornith. Cl., **16**, (117).—*N. arturi* sp. n. S.E. Rhodesia, SCLATER, op. cit., **19**, (30).—*N. chloronota* sp. n. Ruwenzori Mt. JACKSON, op. cit. **16**, (90).

MELIPHAGIDÆ.

Anthochaera paradoxa (Lath.), *Corvus paradoxus* (Latham) is a Honey-eater, and = *Anthochaera inauris* Gould; NORTH, Ibis, **1906**, (57).

Acanthorhynchus halmaturina sp. n. Kangaroo Island, CAMPBELL, Emu, **5**, (142, 143).

Lichmera halmaturina sp. n. Kangaroo Island, CAMPBELL, T.c. (143).

Meliornis novae hollandiae var., Kangaroo Island. *id.* T.c. (144).

Melithreptus lunulatus Shaw is *M. atricapillus* (Lath.), NORTH, Ibis, **1906**, (55); Latham's name founded on Watling's Drawings No. 105, SHARPE, London, Hist. Coll. Brit. Mus., **2**, (128).—*M. albicularis*, nesting on the Clarence River, NORTH, Proc. Linn. Soc. N.S.W., **30**, (395).—*M. melanocepalus* Gould = *M. affinis* (Less.), NORTH, Ibis, **1906**, (56).—*M. magnirostris* sp. n. Kangaroo Isl., NORTH, Sydney, N.S.W., Rec. Austr. Mus., **6**, (20-21, 1 pl.).

Ptilotis forresti sp. n. Northern Territory of South Australia, INGRAM, London, Bull. Brit. Ornith. Cl., **16**, (116).—*P. versicolor*, nesting on Frankland Is., N. Queensland, SMITH, Emu, **5**, (210, 211); (*P. versicolor*, Gould, nest and eggs, NORTH, Sydney, N.S.W., Rec. Austr. Mus., **6**, (29-30, 1 pl.).)

DREPANIDÆ.

Heterorhynchus wilsoni egg of this species erroneously noted as that of *Loxioides bailleui*. (J. Ornith. 1905, p. 419), NEHRKORN, J. Ornith., **54**, (321).

Loxioides bailleui, NEHRKORN, T.c. (321).

AMPELIDÆ.

Bombycilla garrula, TSCHUSI zu SCHMIDHOFFEN, Zool. Beob., Frankfurt a. M., **47**, (142-146).

MNIOTILTIDÆ.

Breeding warblers of Demarest, N.J.; BOWDISH, Auk, **23**, (16-19).

Migration of warblers; COOKE, Bird-Lore, Harrisburg, Pa., **8**, 1906, (26-27, 61-62, 100-102, 134, 168-169, 203-204).

Autumn warbler in Michigan; WOOD, Auk, **23**, (20-25).

Basileuterus bivittatus, from Cuzco, Peru, probably different from the Bolivian species, BERLEPSCH and STOLZMANN, Ornith. London, **13**, (106, 107).—*B. signatus* sp. n. E.C. Peru and N.E. Bolivia, BERLEPSCH and STOLZMANN, T.c. (74, 75).

Dendroica caerulescens, life history, KNIGHT, J. Maine Ornith. Soc., **8**, (33-34).—*D. discolor* in Ohio; HENNINGER, Wilson Bull., Oberlin, Ohio, **18**, (72).—*D. occidentalis* in Washington, BOWLES, Condor, **8**, (40-42).—*D. vigorsii*, life history, SWAIN, J. Maine Ornith. Soc., **8**, (88-89).

Geothlypis canicapilla assimilis sp. n. E. Peru. BERLEPSCH and STOLZMANN, Ornith. London, **13**, (75, 76).

Granatellus pelzelni paraensis subsp. n. Para, ROTHSCHILD, London, Bull. Brit. Ornith. Cl., **16**, (81); notes on, HELLMAYR, Nov. Zool., **13**, (355).

Helinaia swainsonii, date of discovery; WAYNE, Auk, **23**, (227).

Helminthophila; hybrid mating, MEEKER, T.c. (104).—*H. rubricapilla*, life history, KNIGHT, J. Maine Ornith. Soc., **8**, (8-11).—*H. rubricapilla gutturalis*, notes on; BOWLES, Condor, **8**, (68-69).—*H. lawrencei*, notes on, habits; BILDERSEE, Bird Lore, Harrisburg, Pa., **6**, 1904, (131-132).

MOTACILLIDÆ.

Anthus, Formenkreis und Phänologie, HERMAN, Aquila, **13**, (i-v).—*A. lutescens* Puch., and allies; HELLMAYR, Nov. Zool., **13**, (307).—*A. spipoletta* in England; NICOLL, Zoologist, **10**, (463-467).—*A. maculatus*, said to have been shot near

Hamburg is an Indian specimen, HARTERT, Ornith. Monatsber., **14**, (82).—*A. richardi* von Barnaul, BUTURLIN, Psov. i ružejn. ochota, Moskva, **12**, (318).—*A. infuscatus* Blyth, a small dark form of *A. richardi*; *A. kiangsinensis* Dav. = *Oreocorys sylvanus* (Hodgs.), LA TOUCHE, Ibis, **1906**, (640).—*A. rufulus* and its allies, NEUMANN, J. Ornith., **54**, (231–232).—*A. nicholsoni longirostris* note on, (232).—*A. n. hararensis* subsp. n. Mts. of Harar, *A. n. nyassae* subsp. n. Nyasa Lake to Uhehe, (233); *A. leucophrys sordidus* notes on (234); *A. l. omoensis* subsp. n. Omo River, S. Ethiopia, *A. l. zaphiroi* subsp. n. Mts. of Harar., (235); *A. l. zenkeri* subsp. n. Kamerun (235); *A. l. angolensis* subsp. n. Angola, Nyasa Land and German E. Africa (236); *A. l. bohndorffi* subsp. n. Upper Congo, (236); *A. leggei* sp. n. S.E. Ruwenzori, GRANT, London, Bull. Brit. Ornith. Cl., **19**, (26).

Motacilla alba, in Co. Mayo; WARREN, Zoologist, **10**, (275); in the Isle of Man, RALFE, L.c.; *M. alba dukhunensis* in S. Ethiopia, NEUMANN, J. Ornith., **54**, (229).—*M. boarula* near Leipzig, VOIGT, Ornith. Monatsber., **14**, (174).—*M. boarula*, LÖNS, Ornith. Monatschr., Gera, **31**, (501–505) and WEMER, Zool. Beob., Frankfurt a. M., **47**, (180–181).—*M. raii* Bonap., continental allies, TICEHURST, Hastings, Ann. Rep. Nat. Hist., **1**, (38–41, pl. iv).—*M. flava* its status in Sussex, id. T.c.—*M. borealis* Sundev. is *M. thunbergi* Billberg, LÖNNBERG, J. Ornith., **54**, (531).—*M. barnardi* sp. n. Dawson River Queensland, NORTH, Proc. Linn. Soc. N.S.W., **30**, (578).

Oreocorys sylvanus, eggs of *Cuculus canorus* in nest of, RATTRAY, Bombay J. Nat. Hist. Soc., **16**, 1905, (659).

ALAUDIDAE.

Notices sur les *Alaudidae*. (Russ.) BIANCHI, St. Peterburg, Bull. Ac. Sci., **23**, (205–240).

Alauda arvensis near New York, BILDERSEE, Bird Lore, Harrisburg, Pa., **6**, 1904, (204–205).—*A. arvensis cinerea*, at Flannan Islands lighthouse; CLARKE, Ann. Scot. Nat. Hist., **1906**, (139).—*A. inopinata* in S. Tibet, Eggs, DRESSER, Ibis, **1906**, (343).—*A. brachydactyla* aus Ungarn, CSÖRGEY, Aquila, **13**, (171–179).

Melanocoryphoides gen. n. für *Melanocorypha maxima*, BIANCHI, St. Peterburg, Bull. Ac. Sci., **23**, (205–240).

Mirafra secunda, nest figured, BERNEY, Emu, **6**, (pl. v).—*M. javanica pallida*, correction, HARTERT, Nov. Zool., **13**, (755).—*M. rufescens* sp. n. Northern Territory of South Australia, INGRAM, London, Bull. Brit. Ornith. Cl., **16**, (116).

Otocorys alpestris, near Herne Bay, CLARK, Zoologist, **10**, (430); occurrence in Cheshire, COWARD, T.c. (72).—*O. alpestris pratensis*, breeding in eastern Massachusetts, ALLEN, Auk, **23**, (101–102), and Eastern distribution of, NORTON, T.c. (225–226).

Pseudalaudula gen. n. für *Alauda pispoletta* Pall., BIANCHI, St. Peterburg, Bull. Ac. Sci., **23**, (205–240).

Rhazocorys gen. n. für *Spizocorys razae* Alexander, BIANCHI, L.c.

Tephrocorys cinerea erlangeri subsp. n. S. Ethiopia, NEUMANN, J. Ornith., **54**, (239).

FRINGILLIDAE.

Acanthis hornemanni on Fair island, CLARKE, Ann. Scot. Nat. Hist., **1906**, (17).—*Acanthis linaria*, breeding on the Magdalen islands, CALLENDER, Auk, **23**, (102–123).

Amphispiza belli, note, PIERCE, Condor, **8**, (152–153).—*A. bilineata deserticola*, note, BAILEY, T.c. (111–112).

Astragalinus tristis, note; Amer. Ornith., Worcester, Mass., **6**, (26–30).

Calcarius lapponicus, at Fair island, CLARKE, Ann. Scot. Nat. Hist., **1906**, (18–19); in Brussels market, DUBOIS, Ornith., London, **13**, (135).

Carduelis carduelis, in Midlothian, CAMPBELL, Ann. Scot. Nat. Hist., **1906**, (50); in Transcaucasia, notes on, BUTURLIN, Ibis, **1906**, (423).—*C. e. volgensis* subsp. n. C. and E. Russia, (424); Saura River, Isimbirsk to the Ural, id. T.c. (736).—*C. carduelis minor* subsp. n. Ispahan and Sagrosch Mts., *C. e. loudoni* subsp. n. Prov. Shilan and Kaswin, Persia, SARUDNY, Ornith. Monatsber., **14**, (47).—*C. volgensis, loudoni, brevirostris*, notes on, BUTURLIN, Ibis, **1906**, (736).—*C. caniceps*, breeds in Kashmir, RATTRAY, Bombay, J. Nat. Hist. Soc., **16**, 1905, (658).

Carpodacus erythrinus at Fair Isle, CLARKE and KINNEAR, Ann. Scot. Nat. Hist., 1906, (236).—*C. femininus* sp. n. Yangtze River, RIPPON, London, Bull. Brit. Ornith. Cl., 19, (31).—*C. incertus* sp. n. Formosa, GRANT, op. cit. 16, (122).

Chloris sinica, nest and eggs, LA TOUCHE, Ibis, 1906, (630).

Coccothraustes vulgaris, colour of eyes, PADDOCK, Zoologist, 10, (109).

Crithagra kilarii Bp. = *Sicalis arvensis* (Kittl.), HELLMAYR, Nov. Zool., 13, (309).

Emberiza, die Ammern des Orients; BRAUN, Natur u. Haus, Dresden, 14, (309-312).—*E. miliaria*, late breeding, BELL, Ann. Scot. Nat. Hist., 1906, (51); distribution in Wales, SWAINSON, Zoologist, 10, (350) and APLIN, T.e. (430).—*E. pusilla*, on Fair island, CLARKE, Ann. Scot. Nat. Hist., 1906, (18, 236); in Shizuoka, Japan, OGAWA, Dobuts. Z., Tokyo, 18, (157-160).—*E. rustica*, at Cape Wrath, CLARKE, Ann. Scot. Nat. Hist., 1906, (138).—*E. fucata* and *E. cioides*, nest and eggs, LA TOUCHE, Ibis, London, 1906, (631-635).—*E. citrinella*, *E. leucocephala*, im Semirëčje-Gebiet., ZARUDNY u. KOREIEV, Mat. faun. flor. Ross., Zool. 7, (146-247).—*E. cirrus*, in Cheshire, CUMMINGS, Zoologist, 10, (71).—*E. citriniventris*, figured, SCLATER, Ibis, 1906, (pl. xv); *E. citriniventris*, Sel. = *semenowi* Sarudn., SCLATER, T.e. (612).—*E. hortulana*, at Fair Isle, CLARKE, Ann. Scot. Nat. Hist., 1906, (139).—*E. poliopleura*, filoplumes on the nape, WITHERBY, London, Bull. Brit. Ornith. Cl., 16, (63) and PYCRAFT, T.e. (64).—*E. calandra* Linn. 1758, is the name for *E. miliaria*, LÖNNBERG, J. Ornith., 54, (529).—*E. pyrrhuloides harterti* subsp. n. Lake Saissan-noor, SUSHKIN, London, Bull. Brit. Ornith. Cl., 16, (56).

Emberizoides macrourus hypochondriacus subsp. n. Chiriqui, HELLMAYR, op. cit., 19, (28).

Eophona melanura, nest and eggs described, LA TOUCHE, Ibis, 1906, (627-629).

Eutheia johnstonei sp. n. Blanquilla Island, Venezuela, LOWE, London, Bull. Brit. Ornith. Cl., 19, (6).

Fringilla montifringilla, in Tiree, ANDERSON, Ann. Scot. Nat. Hist., 1906, (50); in Surrey, RUSSELL, Zoologist, 10,

(110); late stay in Cheshire, CUMMINGS, T.e. (188); in South Oxfordshire, April, APLIN, T.e. (313); note on, BERTRAM, Pfälz. Heimat., Kaiserslautern, 2, (89-95).—*F. caelebs* at Kobat N.W. India, MAGRATH, London, Bull. Brit. Ornith. Cl., 19, (7).

Fringillaria goslingi sp. n. River Welle, ALEXANDER, op. cit., 16, (124).

Glycispina buehanani var. n. *obscura* Semirëčje-Gebiet, ZARUDNY u. KOREIEV, Mat. faun. flor. Ross., Zool. 7, (146-247).

Haplospiza uniformis referred to *Spodiornis*, HELLMAYR, Nov. Zool., 13, (308).

Hypacanthus spinoides, nesting habits, eggs, RATTRAY, Bombay, J. Nat. Hist. Soc., 16, 1905, (658).

Idiopsar brachyurus from La Paz Bolivia, ROBINSON, Ibis, 1906, (387).

Junco hyemalis, in Essex County, Mass. ALLEN, Auk, 23, (103), also EUSTIS, T.e. (103); in Ireland, BARRINGTON, Irish Nat., 15, (137).—*J. siemsseni* sp. n. Fokien, MARTENS, Ornith. Monatsber., 14, (192).

Leucosticte annae sp. n. E. Tarbagatai Mts., SUSHKIN, London, Bull. Brit. Ornith. Cl., 16, (56).

Linota flavirostris, breeding haunts, ELLISON, Zoologist, 10, (29) and again (150), also BUTTERFIELD, (189); in Derbyshire, PEARSON, T.e. (71).—*L. cannabina* at Kobat N.W. India, MAGRATH, London, Bull. Brit. Ornith. Cl., 19, (7).—*L. rufescens*, breeding in Ross-shire, WHYTE, Zoologist, 10, (468).

Loxia curvirostra, note on, MÜLLER, Gefied. Welt, 35, (148-150, 157-158).

Melospiza lincolni gracilis (Kittlitz) = *M. l. striata* Brewster, OBERHOLSER, Washington, D.C., Proc. Biol. Soc., 19, (42).—*M. cinerea*, variation, CHAPMAN, Bird Lore, Harrisburg, Pa., 6, 1904, (164-165).

Miliaria calandra, note on, AUERBACH, Gera, Jahresber. Ges. Natw., 46 48, (168-169).

Mycerobas carneipes von Kaschka-su, BUTURLIN, Psov. i ružejn. ochota, Moskva, 12, (318).

Oryzoborus specularis, Finsch distinguished from *oangolensis*, HELLMAYR, Nov. Zool., 13, (19).

Passer domesticus, HOWARD, Condor, **8**, (67-68); CHIGI, Boll. Soc. zool. ital., Ser. 2, **6** (49).—*P. montanus*, in West Lothian, BROCK, Ann. Scot. Nat. Hist., **1906**, (50); occurrence in Fife, BARBOUR, *l.c.*; breeding in West Lothian, BROCK, T.c. (185); in Bute, ROBERTSON, T.c. (237); nesting in Co. Dublin, FOSTER, Irish Nat., **15**, (221).—*P. montanus transcaucasicus* n. subsp. Transcaucasia, BUTURLIN, Ibis, **1906**, (423).—*P. italiae* and allies, SALVADORI, Torino, Atti Acc. Sc., **41**, (961-970).—*P. griseus swainsoni*, eggs, NEUMANN, J. Ornith., **54**, (300).

Passerculus rostratus, habits, ANTHONY, Auk, **23**, (149-152).

Passerina nivalis, Moulton, WAYNE, T.c. (102).

Petronia petronia, notes on, LINDNER, Ornith. Monatschr., Gera, **31**, (46-65, 105-121, mit 1 Taf.); Bemerkung dazu, TASCHENBERG, T.c. (186-188); and BRÜCKNER, *l.c.*; notes on breeding, SALZMANN, T.c. (182-186).

Phonipara, notes on, BUTLER, Avicult. Mag., Brighton, **4**, (153).—*P. fumosa* Lawr. = *Euthia fuliginosa* Wied., HELLMAYR, Nov. Zool., **13**, (18).

Pinicola enucleator, breeding in captivity, ST. QUINTIN, Avicult. Mag., Brighton, **5**, (55); in Sussex, TICEHURST, London, Bull. Brit. Ornith. Cl., **16**, (48).

Pipilo maculatus varr., RIDGWAY, Condor, **8**, (53, 100).

Pogonospiza gen. n. type, *P. mystacalis* (Tacz.), BERLEPSCH and STOLZMANN, Ornith. London, **13**, (67).—*P. m. brunneiceps* subsp. n. Prov. Ayacucho, Peru. *id. l.c.*

Poospiza hypochondriaca affinis subsp. n. Tucumau, BERLEPSCH, London, Bull. Brit. Ornith. Cl., **16**, (97).

Propasser waltoni, figured, WALTON, Ibis, **1906**, (226, pl. xiv).

Pyenorkhamphus icteroides, nesting, RATTRAY, Bombay J. Nat. Hist. Soc., **16**, 1905, (658).

Pyrrhula major, occurrence in Shetland, TULLOCH, Ann. Scot. Nat. Hist., **1906**, (50) and CLARKE, (115-116).—*P. vulgaris*, note on, RIEGLER, Wild u. Hund, Berlin, **12**, (793).—*P. pyrrhula rossikowi* Derj. and Bianchi, from the Caucasus, notes on, BUTURLIN, Ibis, **1906**, (420-423).—*P. aurantiaca*, nesting,

RATTRAY, Bombay, J. Nat. Hist. Soc., **16**, 1905, (658).—*P. altera* sp. n. W. Yun-nan, RIPPON, London, Bull. Brit. Ornith. Cl., **19**, (19).—*P. victorice* sp. n. S. Chin Hills, RIPPON, op. cit. **16**, (47).

Rhodopechys sanguinea aus Przevalsk, BUTURLIN, Psov. i ružejn. ochota, Moskva, **12**, (318).

Serinus canarius serinus in Servia, RZEHA, Ornith. Monatsber., **14**, (49); Crossings, an exception to Mendel's law, NOORDUYN, Album der Natuur, Haarlem, **1906**, (320-323).—*S. canicollis* × *Alario alario*, hybrid described HAAGNER, Avicult. Mag., Brighton, **4** (134).

Spodiornis, allied to *Phrygilus*, HELLMAYR, Nov. Zool., **13**, (308); *Spodiornis* vide etiam *Haplospiza*.

Sporophila gutturalis inconspicua subsp. n. E. Peru, BERLEPSCH and STOLZMANN, Ornith. London, **13**, (84).

Sycalis arvensis, breeding in captivity, SETH-SMITH, Avicult. Mag., Brighton, **4**, (340).—*S. columbiana leopoldinae* subsp. n. Rio Araguay, HELLMAYR, London, Bull. Brit. Ornith. Cl., **16**, (85).—*S. goeldii* sp. n. Santarem, BERLEPSCH, T.c. (97).

Tiaris olivacea dissita subsp. n., THAYER and BANGS, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **46**.

Zonotrichia leucophrys nuttalli, note on, BOLANDER, Condor, **8**, (73-74).—*Z. coronata*, note on, HEAD, T.c. (130).

COEREBIDÆ.

Cerēba luteola and allies, HELLMAYR, Nov. Zool., **13**, (7); The West Indian black forms, CLARK, Auk, **23**, (392-395).

Cyanerpes, review of the species, HELLMAYR, Nov. Zool., **13**, (8-10).

TANAGRIDÆ.

Arremon callistus Oberholser = *A. polionotus* Bp., (311-312), and *A. devillii* Des Murs, is a subspecies (312); *A. wuchereri* Sel. and Salv. = *A. flavirostris*, Swains., (313-314); HELLMAYR, Nov. Zool., **13**.

Buarremon bacri referred to *Compsospiza*, HELLMAYR, T.c. (309).

Buthraupis cucullata saturata subsp. n. C. Peru, BERLEPSCH and HOLZMANN, Ornith. London, **13**, (80).

Calospiza argentea fulvigula subsp. n. N. Peru and Ecuador; *C. viridicollis* (Scl.) = true *C. argentea* (Tsch.), iid. T.c. (79, 80).

Chlorophanes pulcherrima stigmatura, iid., T.c., (77).

Chlorophonia leotaudi Chapman = *Tachyphonus luctuosus* ♀, HELLMAYR, Nov. Zool., **13**, (17).

Chlorospingus regionalis sp. n., Costa Rica, BANGS, Washington, D.C., Proc. Biol. Soc., **19**, (112).

Daonis salmoni Scl. referred to *Nemosia*, HELLMAYR, Nov. Zool., **13**, (317).

Euphonia violacea and *E. viridis* in captivity, BALDELLI, Avicult. Mag., Brighton, (2) **4**, (179).—*E. violacea lichtensteini* and *E. violacea*, notes on, HELLMAYR, Nov. Zool., **13**, (14).—*E. lanirostris peruviana* subsp. n. C. Peru, BERLEPSCH and STOLZMANN, Ornith. London, **13**, (77).

Nemosia chrysopsis Scl. and Salv. = *Thlypopsis sordida* (Lafr. et D'Orb.), and is two subsp., *T. sordida sordida* (Lafr. et D'Orb.) and *T. sordida amazonum*, Scl., geographical distribution; HELLMAYR, Nov. Zool., **13**, (310-311).

Orthogonys vide *Tachyphonus*.

Piranga mexicana (L.) = *erythromelas*, OBERHOLSER, Washington, D.C., Proc. Biol. Soc., **19**, (43).

Rhamphocelus jacapa and allies, HELLMAYR, Nov. Zool., **13**, (15).

Saltator azarae d'Orb. is subsp. of *S. caeruleus* Vieill., notes on allies; *S. guadeloupensis* Lafr. is identical with *S. albicollis* Vieill.; *S. striatipectus* Lafr. distribution, HELLMAYR, T.c. (314-316).

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Tanagra darwini lacta subsp. n. C. E. Peru, BERLEPSCH and STOLZMANN, Ornith. London, **13**, (81).

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Notes on hybrids of *Ploceidae*, BUTLER, Avicult. Mag., Brighton, **4**, (345-354, tab.).

Amadina erythrocephala, breeding in captivity, TESCHEMAKER, T.c. (354-357); Zucht, LEWEK, Gefied. Welt, Magdeburg, **35**, (220-221).

Granatina granatina, notes on the species, PHILLIPPS, Avicult. Mag., Brighton, **4**, (295-306, tab.).

Lagonosticta ngandae sp. n. Toro Equat. Africa, SALVADORI, Boll. Mus. Torino, **21**, No. 542, (2).

Malimbus coronatus sp. n. River Ja Camaroons, SHARPE, London, Bull. Brit. Ornith. Cl., **19**, (18).

Munia flaviprymna, in confinement, TESCHEMAKER, Avicult. Mag., Brighton, **4**, (97-99).

Neisna minima sp. n. E. Ruwenzori Mts., GRANT, London, Bull. Brit. Ornith. Club, **16**, (117).

(*Neospiza* gen. n. type *Amblyospiza concolor* Boc., SALVADORI, Torino, Mem. Acc. sc., **53**, 1903, (26).)

Ortygospiza polyzona in the Zoological Gardens, BUTLER, Avicult. Mag., Brighton, **4**, (170-172).

Plocens baglaffeicht, eggs, NEUMANN, J. Ornith., **54**, (300).

Poephila gouldiae, the red-headed and black-headed forms, BUTLER, Avicult. Mag., **5**, (326).—*P. mirabilis*, in confinement, BUTLER, op. cit. **4**, (326-329).—*P. aurantirostris*, NORTH, Proc. Linn. Soc., N.S.W., **1905**, (101).—*P. heci*, Heinroth, Ornith. Monatsber., v-vi, (22).

Pyromelana oryx, seasonal changes of plumage and nidification in captivity, DUNCAN, Pretoria, J. S. Afric. Ornith. Union, **1**, (57-61).—*P. marwitszi*, sp. n. Inkalamu, E. Africa, REICHENOW, Ornith. Monatsber., **14**, (171).

Pytelia lopezi sp. n. Banda, ALEXANDER, London, Bull. Brit. Ornith. Cl., **16**, (121).

Spermospiza poliogenys sp. n. W. Ruwenzori, GRANT, op. cit. **19**, (32).

Steganopleura guttata ♂ × *Tœniopygia castanotis* ♀ figured, BUTLER, Avicult. Mag., Brighton, **4**, (345).

Uroloneka fumigata, eggs, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (160).

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Molothrus minimus Dalmas = *M. atronitens* Cab., HELLMAYR, Nov. Zool., **13**, (20).

Ostinops decumanus insularis Dalmas, not valid, HELLMAYR, T.c. (19).

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Oriolus galbula, song, LÖNS, Ornith. Monatsber., **14**, (150); Abzugszeit, SCHUSTER, Ornith. Monatschr., Gera, **31**, (416–417). — *O. andamanensis*, eggs, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (158).

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Dicrurus annectens, *D. nigrescens*, eggs, STUART BAKER, Ibis, **1906**, (257).

Dissemuroides andamanensis, eggs, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (156).

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Coccycolius iris is from French Guinea, HELLMAYR, London, Bull. Brit. Ornith. Cl., **19**, (29).

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Sturnia andamanensis, eggs, OSMASTON, Bombay, J. Nat. Hist. Soc., **17**, (158).

Sturnus; Klassifikation und Verbreitung der Arten, BUTURLIN, Psov. i ružejn. ochota, Moskva, **1906**, **1**, (35–43),

2, (33–39). — *S. vulgaris*, Aufzucht, Gesang, Benahmen, KLEMENZ, op. cit. **12**, (540–542); as useful, EBERTS, Allg. Forstztg, Frankfurt a. M., **82**, (36); note, HENNEMANN, Ornith. Monatschr., Gera, **31**, (545–547); notes on the breeding, KÖNIG-WARTHAUSEN, T.c. (510); REEKER, Wie oft im Jahre bruten unsere Stare? Münster, Jahresber. ProvVer. Wiss., **34**, (126–127); Nachträge dazu v. B. WIGGER, T.c. (159–160), and Paul WEMER, (160); TSCHUSI zu SCHMIDHOFFEN, Ornith. Monatsber., **14**, (8).

PTILONORHYNCHIDÆ.

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Sericulus melinus in captivity. PHILLIPS, Avicult. Mag., Brighton, **4**, (88–96, 123–131).

PARADISEIDÆ.

Astrapia rothschildi sp. n. German New Guinea, FOERSTER, on two new Birds of Paradise. Tring, 1906, (2); ROTHSCHILD, London, Bull. Brit. Ornith. Cl., **19**, (7).

Neoparadisea gen. n. *ruysi* sp. n. Geelvinck Bay, allied to *Paradisea* and *Diphyllodes*, OORT, Leiden, Notes Mus. **28**, (129–130).

Parotia wahnesi sp. n. German New Guinea, ROTHSCHILD, on two new Birds of Paradise. Tring, 1906, (2–3); id; London, Bull. Brit. Ornith. Cl., **19**, (7).

CORVIDÆ.

Zur Systematik der paläarktischen Corviden; PARROT, Zool. Jahrb., Syst., **23**, (257–294).

Cissa gabriellæ sp. n. Mts. of Annam, GRANT, Bull. Brit. Ornith. Cl., **19**, (12). — *C. robinsoni* sp. n. Malay Peninsula, GRANT, T.c. (9).

Coloeus, characters, HARTERT, Nov. Zool., **13**, (388). — *C. dauricus khamensis* subsp. n. S.E. Tibet, BIANCHI, London, Bull. Brit. Ornith. Cl., **16**, (68).

Corvus, geographical, KLEINSCHMIDT, O., J. Ornith., **54**, (78–99, 4 Taf.); digestion, RÖRIG, Berlin, Arb. biol. Aust., **5**, (266–278); psychology, SCHWARZ, Gefied. Welt, Magdeburg, **35**, (99–101); bastard, WEMER, Münster, Jahresber. ProvVer.

Wiss., **34**, (113-115); note, FISCHER-SIGWART, Zool. Beob., Frankfurt a. M., **47**, (105-110).—Notes on African species, KLEINSCHMIDT, J. Ornith., **54**, (81-99).—*C. corax edithae* (Taf. i), *C. scapulatus* (Taf. ii), *Corvus* ? (Taf. iii), *C. phaeocephalus* (Taf. iv, figs. 1-3); *C. frugilegus*, in Ostpreussen, THIENEMANN, Königsberg, Schr. physik. Ges., **47**, (64-70); utility, HOLLRUNG, Landw. Jahrb., Berlin, **35**, (579-620).

Corvus corax, in Sartre, LETACQ, Mans (le), Bull. soc. agricult. sci., **40**, 1905, (200-204); *C. corax islandicus* **subsp. n.** Iceland, HANTZSCH, Ornith. Monatsber., **14**, (130).—*C. cornix*, migration in der kurischen Nehrung, THIENEMANN, J. Ornith., **54**, (450-464); notes on, RZEHA, Ornith. Monatsber., **14**, (189-190); *C. cornix balcanicus* **subsp. n.** Servia, Roumania, id. T.c. (189); Nisten, UŠAKOV, Psov. i ružejn. ochota, Moskva, **12**, (152-153); note on, RZEHA, Ornith. Monatsber., **14**, (189); *C. cornix* × *C. corone* im Semirěčje-Gebiet (Russ.), ZARUDNY, u. KOREIEV, Mat. faun. flor. Ross., Zool. **7**, (146-247).—*C. macrorhynchus osai* **subsp. n.** Japan, OGAWA, Annot. Zool. Jap., **5**, (196).—*C. sylvaticus* Gesner, notes on, FATIO, Ibis, **1906**, (139-144).

Cyanocorax heckeli Pelz. and *C. inexpectatus* Elliot = *C. caeruleus* (Vieill.), HELLMAYR, Nov. Zool., **13**, (305-307).

Cyanolyca blandita **sp. n.** BANGS, Washington, D.C., Proc. Biol. Soc., **19**.

Cyanocitta cristata, habits, LEMMON, Bird Lore, Harrisburg, Pa., **6**, 1904, (89-90).

Garrulus glandarius, food-habits, RZEHA, Ornith. Monatschr., Gera, **31**, (417-418).—*G. nigrifrons* = ♀ et juv. *G. Krynickii*, BUTURLIN, Ibis, **1906**, (736).—*G. lidthi* figured, OGAWA, Annot. Zool. Jap., **5**, (198, pl. ix).—*G. krynickii* from Transcaucasia, *G. caspius* and *G. anatoliae*, notes on, BUTURLIN, Ibis, **1906**, (425, 426).—*G. nigrifrons* **sp. n.** Armenia, id. T.c. (426); Key to *G. cervicalis* and allies, id. T.c. (426, 427).

Heterocorax = *Trypanocorax*, KLEINSCHMIDT, J. Ornith., **54**, (79).

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Lalocitta **gen. n.** for *Garrulus lidthi*, REICHENOW, *l.c.*

Pica caudata, DETMERS, Zs. Oologie, **16**, (113-114).

Podoces humilis, lays white eggs; habits, DRESSER, Ibis, **1906**, (344).

INCERTAE SEDIS.

† *Alabamornis* **gen. n.**, *gigantea* **sp. n.**, Eocän von Alabama, ABEL, Centralbl. Min., **1906**, (450-458).

XVIII. MAMMALIA

ARRANGED BY

R. LYDEKKER.

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I.—TITLES.

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Abel, O. 1. Ueber den als Beckengürtel von *Zeuglodon* beschriebenen Schultergürtel eines Vogels aus dem Eocän von Alabama. *Centralbl. Min.*, Stuttgart, **1906**, (450-458).

Abel, O. 2. Die Milchmolaren der Sirenen. *N. Jahrb. Min.*, Stuttgart, **1906**, **2**, (50-60).

Abel, O. 3. Les Odontocètes du Boldérien (Miocène Supérieur) d'Anvers. *Mém. Mus. Belgique*, Bruxelles, **3**, 1905, (1-155).

Abelsdorff, G[eorg]. Bemerkungen über das Auge der neugeborenen Katze, im Besonderen die retinale Sehzellschicht. *Arch. Augenheilk.*, Wiesbaden, **53**, 1905, (257-262).

Achalme, P. Sur la tuberculose pulmonaire du tigre et la néoformation d'un épithélium pavimenteux stratifié aux dépens de l'épithélium des terminaisons bronchiques. *Paris, C.-R. Acad. sci.*, **142**, 1906, (1296-1299).

Acuna vide Zolly, Z.

Adams, Charles C[hristopher]. Notes on the Mammals of the Porcupine Mountains and Isle Royale, Michigan. *Michigan, Rep. Geol. Surv.*, Lansing, **1905**, 1906, (128-133).

Adams, Lionel E. Observations on a captive mole (*Talpa europæa*). *Manchester, Mem. Lit. Phil. Soc.*, **50**, No. 9, 1906, (1-7).

Adolphi, H[ermann]. Berichtigung [zu d. Arbeit des Verf.: Die Spermatozoen d. Säugetiere schwimmen gegen den Strom]. *Anat. Anz.*, Jena, **26**, 1905, (664); Bemerkung dazu, A. Roth, *l.e.*

Aggazzotti, Alberto. Aus dem Leben eines Orang-Utans. *Umschau*, Frankfurt a. M., **10**, 1906, (441-446).

Aimé, Paul. Les cellules interstitielles de l'ovaire chez le cheval. *Paris, C.-R. soc. biol.*, **61**, 1906, (250-252); et Réunion biologique de Nancy, **1906**, (50-52).

Albini, G. La fisiogenia del letargo, considerazioni [su un lavoro del Dr. G. Brunelli]. *Napoli, Rend. Acc. sc.*, ser. 3, **9**, 1903, (12-15).

Alexander, G[ustav]. Anatomisch-physiologische Untersuchungen an Thieren mit angeborenen Labyrinthanomalien. *Monatschr. Ohrenheilk.*, Berlin, **37**, 1903, (173-181).

Alexander, G. und Kreidl, A[lois]. Zur Physiologie des Labyrinthes der Tanzmaus. *Monatschr. Ohrenheilk.*, Berlin, **35**, 1901, (78-85).

Alezais et Peyron. L'organe parasympathique de Zuckerkandl chez le chien. *Paris, C.-R. soc. biol.*, **60**, 1906, (1161-1163); Réunion biologique de Marseille, **1906**, (47-49).

Allen, Glover M. 1. Mammalia from Yucatan. *Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll.*, **50**, 1906, (106-109).

Allen, G. M. 2. Sowerby's Whale on the American Coast. *Amer. Nat.*, Boston, Mass., **40**, 1906, (356-367).

Allen, J. A. 1. Mammals from the States of Sinaloa and Jalisco, Mexico, collected by J. H. Batty during 1904 and 1905. *New York, N.Y., Bull. Amer. Mus. Nat. Hist.*, **22**, 1906, (191-262).

Allen, J. A. 2. Mammals from the Island of Hainan, China. *New York, N.Y., Bull. Amer. Mus. Nat. Hist.*, **22**, 1906, (463-490).

Allen, J. A. 3. The proper name of the Mexican Tamandua. *Washington, D.C., Proc. Biol. Soc.*, **19**, 1906, (200).

Ameghino, Florentino. Les formations sédimentaires du Crétacé supérieur et du Tertiaire de Patagonie. An. Mus. Nac., Buenos Aires, **15**, ser. 3, 8, 1906, (1-568, 3 pls.)

Ancel, P. et Bouin, P. Sur les relations qui existent entre le développement du tractus génital et celui de la glande interstitielle chez le porc. C.-R. ass. anat., 6^e session, (Toulouse), Nancy, **1904**, (47-48).

Ancel, P. vide Bouin, P.

Andersen, Knud. 1. On some bats of the genus *Rhinolophus*, collected by Dr. W. L. Abbott in the islands of Nias and Engano. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **29**, 1906, (657-659).

Andersen, K. 2. On some new or little-known Bats of the genus *Rhinolophus* in the collection of the Museo Civico, Genoa. Genova, Ann. Museo civ. st. nat., ser. 3, **2**, 1906, (173-195, pl. iii).

Andersen, K. 3. On the Bats of the *Hipposiderus armiger* and *commersoni* types. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (35-48).

Andersen, K. 4. On *Hipposiderus caffer*, Sund., and its closest allies; with some notes on *H. fuliginosus*, Temm. Ann. Mag. Nat. Hist. London, ser. 7, **17**, 1906, (269-282).

Andersen, K. 5. On the Bats of the genera *Micronycteris* and *Glyphoncteris*. Ann. Mag. Nat. Hist., London, ser. 7, **18**, 1906, (50-65).

Andersen, K. 6. Brief diagnoses of a new genus and ten new forms of Stenodermatous Bats. Ann. Mag. Nat. Hist., London, ser. 7, **18**, 1906, (419-423).

Andersson, K. A. Das höhere Tierleben im Antarktischen Gebiete. Wissenschaft. Ergeb. Schwed. Südpolar-Exped., Stockholm, pt. 2, 1905, (1-57, pls.).

Andrée, Richard. Zum Haustieralter des Pferdes. Globus, Braunschweig, **90**, 1906, (224).

Andrews, Charles W. A descriptive catalogue of the Tertiary Vertebrata of the Fayum, Egypt. London (British Museum), 1906, (xxxvii + 324, plates).

Anglas, J. Les animaux de laboratoire; la Souris (anatomie et description). Paris, 1906, (17, pls.).

Annandale, Nelson. 1. Notes on the species, external characters, and habits of the Dugong. Calcutta, J. As. Soc. Beng., ser. 2, **1**, 1906, (238-243).

Annandale, N. 2. Notes on the fauna of a desert tract in Southern India, with a list of a small collection of Mammals from Ramanad by R. C. Wroughton. Calcutta, Mem. As. Soc. Beng., **1**, 1905, (221-222).

Annandale, N. 3. Lacteal tract of Oriental *Lorisinae*. Spolia Zeylanica, Colombo, **3**, 1906, (196).

Anne, M. d'. 1. Albinisme chez l'écureuil. Feuille jeunes natural., Paris, **36**, 1906, (182-183).

Anne, M. d'. 2. Dégâts causés aux pommiers par les écureuils. Feuille jeunes natural., Paris, **36**, 1906, (183).

[**Anon.**] **1.** An African Elephant at the British Museum. The Times, August 2nd, 1906.

[**Anon.**] **2.** Abnormal Antlers of Chital. Field, London, **108**, 1906, (579).

[**Anon.**] **3.** Distribution of Flying-Squirrels in Ceylon. Spolia Zeylanica, Colombo, **3**, 1906, (239).

[**Anon.**] **4.** Ekornredet. Bergen Naturen, 1906, (229-231).

[**Anon.**] **5.** Monstruosidades. Broteria, Berlin, **4**, 1906, (230-231, figg.).

[**Anthony, R. 1.** Note préliminaire sur les attitudes et les caractères d'adaptation des Edentés de la famille des *Bradypodidae*. Bul. Muséum, Paris, **1905**, (385-388).]

Anthony, R. 2. Les coupures génériques de la famille des *Bradypodidae* (le genre *Hemibradypus*). Paris, C.-R. Acad. sci., **142**, 1906, (292-294, fig.).

Anthony, R. 3. Les conditions mécaniques du développement de l'encéphale chez les Carnassiers et les Primates, et l'évolution de la forme humaine. Revue des Idées, Paris, **3**, 1906, (700-704).

Anthony, R. 4. Le rôle du muscle crotaphyte dans la morphogénie du crâne des Mammifères. Paris, C.-R. ass. franç. avanc. sci., **33**, (Grenoble, 1904, 2^e partie), 1905, (853-855).

- Anthony, R.** 5. Du rôle des muscles crotaphytes dans le développement du crâne et du cerveau. *Bul. Inst. psych. internat.*, Paris, **4**, 1904, (84-88). [Observations de MM. Artault, Rabaud, Perrier.]
- (**Anthony, R.** et **Calvet, L.** Recherches faites sur le Cétacé capturé à Cette le 6 octobre 1904. (*Balenoptera physalus* Linné). Paris, *Bul. soc. philom.*, sér. 9, **7**, 1905, (75-85, fig.).)
- Antoni, Nils** und **Björk, Adolf.** Beobachtungen im Trapezkern des Kaninchens. *Anat. Anz.*, Jena, **29**, 1906, (300-307, fig.).
- Artault.** Des actes raisonnés chez le chat. *Bul. Inst. psych. internat.*, Paris, **3**, 1903, (12-24). [Discussion: MM. Oustalet, Desvaux, Oppenheimer, Perrier, Ménégaux].
- Aschoff, Ludwig** und **Tawara, S.** Demonstration von Präparaten des Reizleitungssystems im Säugetierherzen, *Verh. D. Zool. Ges.*, Leipzig, **1906**, (263).
- Aschoff, L.** *vide* Tawara, S.
- Assheton, R.** The morphology of the Ungulate placenta, particularly the development of that organ in the Sheep, and notes upon the development of the placenta of the Elephant and Hyrax. *London, Phil. Trans. R. Soc., B*, **193**, 1906, (143-220, pls. ix-xiii).
- Backman, L.** L'action de l'urée sur le cœur isolé et survivant des Mammifères. Paris, *C.-R. soc. biol.*, **61**, 1906, (3-4).
- Bächler, Emil.** Die prähistorische Kulturstätte in der Wildkirchli Ebenalp-höhle. *Verh. Schweiz. natf. Ges.*, Aarau, **89**, 1906, (347-420, pls.).
- Baer, Julius.** Untersuchungen über Acidose II. Ueber das Verhalten verschiedener Säugetierklassen bei Kohlehydratentziehung. *Arch. exper. Path.*, Leipzig, **54**, 1906, (153-167).
- Bailey, Vernon.** 1. Identity of *Thomomys umbrinus* (Richardson). Washington, D.C., *Proc. Biol. Soc.*, **19**, 1906, (3-6).
- Bailey, V.** 2. A new White-footed Mouse from Texas. Washington, D.C., *Proc. Biol. Soc.*, **19**, 1906, (57-58).
- Baldwin, E. T.** The Pine-Marten in Lakeland. *Naturalist*, London, **1906**, (221-222).
- Ballowitz, E[mil].** 1. Ueber Syzygie der Spermien bei den Gürteltieren, ein Beitrag zur Kenntnis der Edentaten-Spermien. *Anat. Anz.*, Jena, **29**, 1906, (321-324).
- Ballowitz, E.** 2. Zur Kenntniss der Eifurchung bei den Insectivoren. *Anat. Anz.*, Jena, **29**, 1906, (674-678, Fig.).
- Bangs, Outram.** 1. Pearl Islands Mammalia. Cambridge, Mass., *Bull. Mus. Comp. Zool.*, Harvard Coll., **46**, 1906, (139-140).
- Bangs, O.** 2. Mammalia from the Savanna of Panama. Cambridge, Mass., *Bull. Mus. Comp. Zool.* Harvard Coll., **46**, 1906, (212-213).
- Barbi, Ugo.** Contributo alla conoscenza dei vasi aberranti del fegato in alcuni animali domestici. *Mon. zool. ital.*, Firenze, **17**, 1906, (235-241).
- Barbieri, Ciro.** Intorno alla placenta del *Tragulus meminna* Erxl. *Anat. Anz.*, Jena, **28**, 1906, (327-336).
- Barbieri, N. A.** Origine concreta et très précise des nerfs. Paris, *C.-R. Acad. sci.*, **142**, 1906, (803-805).
- Barbour, Erwin Hineckley.** Notice of a new Miocene rhinoceros, *Diceratherium arikarense*. Science, New York, N.Y., **24**, 1906, (780-781).
- Barnabò, Valentino.** 1. Sui rapporti delle cellule interstiziali del testicolo colle glandule a secrezione interna. *Comunicaz. preventiva.* Roma, *Boll. Soc. zool. ital.*, ser. 2, **6**, 1906, (229-230).
- Barnabò, V.** 2. Contributo allo studio della struttura della glandula interstiziale del testicolo nella Cavia. Roma, *Boll. Soc. zool. ital.*, ser. 2, **6**, 1906, (275-281).
- Barnabò, V.** 3. La glandula interstiziale del testicolo. Storia Morfologia, etc. Roma, *Boll. Soc. zool. ital.*, ser. 2, **6**, 1906, (289-302).
- Baron.** De la bêtise du chien et de la haute intelligence du mouton, (éthologie et psychologie comparées). *Bul. Inst. psych. internat.*, Paris, **4**, 1904, (75-81).
- Barpi, Ugo.** Contributo alla conoscenza dei vasi aberranti del fegato in alcuni animali domestici. Seconda nota. *Mon. zool. ital.*, Firenze, **17**, 1906, (235-241).

Barrett-Hamilton, G. E. H. 1. Descriptions of two new species of *Pterygistes*. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (98-100).

Barrett-Hamilton, G. E. H. 2. On a collection of Mice (*Mus hirtensis* and *M. muralis*) from St. Kilda. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (1-4).

Barrington, A. and Pearson, K. On the inheritance of coat-colour in Cattle, pt. 1. Biometrika, Cambridge, **4**, 1906, (427-464).

Bartels, Paul. Ueber die Lymphgefäße des Pankreas. II. Das feinere Verhalten der lymphatischen Verbindungen zwischen Pankreas und Duodenum. Arch. Anat. Physiol., Leipzig, Anat. Abt., **1906**, (250-287, 2 pls.).

Bate, Dorothea M. A. 1. The Pigmy Hippopotamus of Cyprus. Geol. Mag. London, dec. 5, **3**, 1906, (241-245, pl. xv).

Bate, D. M. A. 2. On the Mammals of Crete. London, Proc. Zool. Soc., **1905**, 2, (315-323).

Baum, [Hermann] und Dobers, [Richard Ludwig Gotthart]. Die Entwicklung des äusseren Ohres bei Schwein und Schaf. D. tierärztl. Wochenschr., Hannover, **13**, 1905, (460-464).

Baum, H. vide Ellenberger, W.

Beck, H. Abnormal dentition in Capybara. London, Proc. Zool. Soc., **1906**, 1907, (761).

Beck, Richard. *Mastodon* in the Pleistocene of South Africa. Geol. Mag., London, dec. 5, **3**, 1906, (47-50, fig.).

Beddard, F. E. Description of the external characters of an unborn foetus of a Giraffe (*Giraffa camelopardalis uardi*). London, Proc. Zool. Soc., **1906**, (626-631, figg.).

Behlen, H. 1. Zur Gehörnentwicklung des Rehbocks im besonderen und der Cerviden in allgemeinen. Zool. Beob., Frankfurt a. M., **47**, 1906, (262-269, 289-287).

Behlen, H. 2. Zur Gehörnentwicklung des Rehbocks. Wild u. Hund, Berlin, **12**, 1906, (281-284, 296-298).

Behlen, H. 3. Das Erstlingsgehörn des Rehbockes. D. Jägerztg. Neudamm, **47**, 1906, (290-296, 311-316).

Behlen, H. 4. Ueber das Milchgebiss der Paarhufer. Eine literaturgeschichtlich-vergleichende Studie in 2 Thn. Th. I: Literaturgeschichtliches. Wiesbaden, Jahrb. Ver. Natk., **59**, 1906, (185-212).

Beiling, Karl. Beiträge zur makroskopischen und mikroskopischen Anatomie der Vagina und des Uterus der Säugetiere. Arch. mikr. Anat., Bonn, **67**, 1906, (573-637, pl. xxx).

Benoit-Gonin vide Lafite-Dupont.

Bensley, B. The homologies of the styler cusps in the upper molars of the *Didelphyidae*. Toronto, Stud. Univ. Biol. Ser., No. **5**, 1906, (1-13).

Bernstorff, E. Graf. Wo gibt es in Nordamerika noch Büffel (*Bison americanus*)? Wild u. Hund, Berlin, **12**, 1906, (52-54, 68-70).

Berry, Charles Scott. The imitative tendency of White Rats. J. Comp. Neur. Psych., Granville, Ohio, **16**, 1906, (333-361).

Berry, E. W. and Gregory, W. K. *Prorosmarus allenii*, a new genus and species of Walrus from the Upper Miocene of Yorktown, Virginia. Amer. J. Sci., New Haven, Conn., ser. **4**, **21**, 1906, (444-450, fig.).

Besskó, József. A honfoglaló magyar nemzet lovaról. Craniometria tanulmány. [Über die Pferde der ungarischen Nation aus der Landeseroberungszeit. Craniometrische Studie]. Budapest, 1906, (176, 3 pls.).

(**Bianchi, Vincenzo.** Il mantello cerebrale del Delfino (*Delphinus delphis*), ricerche istologiche. Napoli, Atti Acc. Sci., ser. 2, **12**, 1905, Mem. **14**^a, (1-18, con 3 tav.).)

Bidder, Alfred. Osteobiologie. Arch. mikr. Anat., Bonn, **68**, 1906, (137-213, 5 Taf.).

Bikeles, G[ustav] und Zaluska, Jan. Zur Herkunft der sensiblen Nervenfasern der Quadricepssehne und der Achillessehne beim Hund. Arch. ges. Physiol., Bonn, **111**, 1906, (376-390).

Bizzozero, E[nzo]. 1. Sulla membrana propria dei canalicoli uriniferi. Archivio sc. med., Torino, **25**, 1901, (97-100, fig.).

Bizzozero, E. 2. Sulle cellule cromatofore e di Langerhans nella pelle. *Archivio sc. med.*, Torino, **30**, 1906, (611-633, 1 pl.).

Björk, Adolf *vide* Antoni, Nils.

Blanchard, R. Les suites d'un combat de Rennes, hommage funèbre au Dr. Bunge. Paris, *Bul. Soc. zool.*, **29**, 1904, (230-231, fig.).

Bluntschli, Hans. Die Arteria femoralis und ihre Aeste bei den niederen catarrhinen Affen. Eine vergleichend-anatomische Untersuchung. *Morph. Jahrb.*, Leipzig, **36**, 1906, (276-461).

Boas, J. E. V. Fehlen der Pleurahöhlen beim indischen Elephanten. *Morph. Jahrb.*, Leipzig, **35**, 1906, (494-495).

Böhm, Jos. 1. Normale und anormale Bildung der äusseren Geschlechtsteile. *Arch. Tierheilk.*, Berlin, **32**, 1906, (618-627, 1 pl.).

(Böhm, J. 2. Die äusseren Genitalien des Schafes. (Morphologische Studien über Kloake und Phallus der Amnioten v. Albert Fleischmann. IX.) *Morph. Jahrb.*, Leipzig, **34**, 1905, (248-320, 2 Taf.).)

Boettger, O. Bastarde zwischen Löwe und Tiger. *Zool. Beob.*, Frankfurt a. M., **47**, 1906, (246-247).

[**Bogoljubov, N. F.**] Боголюбовъ, Н. Ф. Островъ Котлинъ въ зоологическомъ отношеніи. [Die Insel Kotlin in Zoologischer Hinsicht.] *Prir. i. ochota*, Moskva, **1906**, 10, (6-19), 11, (8-13), 12, (5-11).

[**Bolau, Heinrich.**] Fang lebender Säugetiere. [In] Anleitung zu wiss. Beobachtungen auf Reisen. 3. Aufl. 2. Hannover (M. Jänecke), 1906, (520-526).

Bolk, Louis. 1. Ein Fall von Rückenmarksdoppelung mit Heterotopia bei einem Beuteltier. *Anat. Anz.*, Jena, **29**, 1906, (497-501).

Bolk, L. 2. De betrekking tusschen de tandformulen der platyrrhine en katarrhine Primaten. [On the relation between the dental formulæ of the platyrrhine and catarrhine Primates.] Amsterdam, *Versl. Wis. Nat. Afd. K. Akad. Wet.*, **14**, 1906, (751-763).

Bolk, L. 3. Beiträge zur Affenanatomie. V. Die Differenzierung des Primatengebisses. *Petrus Camper*,

Bijdr. Anat., Haarlem, **4**, 1906, (103-114).

Bolk, L. 4. On the relation between the dental formulæ of the Platyrrhine and Catarrhine *Primates*. Amsterdam, *Proc. Sci. K. Akad. Wet.*, **8**, 1906, (781-793).

Bolk, L. 5. Das Cerebellum der Säugetiere; eine vergleichend anatomische Untersuchung. Haarlem (Erven F. Bohn), Jena (Fischer), 1905, (338, 3 pls.).

Bolognesi, Giuseppe. Di una particolare disposizione dei vasi renali in un caso di anomalia di sviluppo nell'apparato genitourinario di un coniglio. *Mon. zool. ital.*, Firenze, **17**, 1906, (193-200, 1 fig.).

Bond, C. J. An inquiry into some points in uterine and ovarian physiology and pathology in Rabbits. *Brit. Med. J.*, London, **1906**, 2, (121-127, 2 pls.).

Bonhote, J. Lewis. 1. The coloration of Mammals and Birds. *Knowledge and Sci. News*, London, **3**, 1906 (316, 317, 343, 372, 373, 402-404).

Bonhote, J. L. 2. On a new race of Squirrel from Burma. *Ann. Mag. Nat. Hist.*, London, ser. 7, **18**, 1906, (337-338).

Bonhote, J. L. 3. On a collection of Mammals brought home by the Tibet frontier commission. London, *Proc. Zool. Soc.*, **1905**, 2, 1906, (302-308).

Bonhote, J. L. 4. The Mammalian fauna of China: Part i. *Murinae*, London, *Proc. Zool. Soc.*, **1905**, 2, 1906, (384-397).

Bonhote, J. L. 5. On Mammals collected from South Johore and Singapore. London, *Proc. Zool. Soc.*, **1906**, (4-11, pl. i.).

Bonnamour, S. Étude histologique des phénomènes de sécrétion de la capsule surrénale chez les Mammifères. Lyon, 1905, (112, 1 pl.).

Borden, Spencer. The Arab Horse. [With preface by Henry Fairfield Osborn]. New York (Doubleday, Page), 1906, (xx+104, pl.). 20 cm.

(Bouin, P. et Ancel, P.) La glande interstitielle du testicule chez le cheval. *Arch. zool.*, Paris, sér. 4, **3**, 1905, (391-433, pl.).

Bouin, P., Ancel, P. et Villemain, F. Sur la physiologie du corps jaune de l'ovaire. Recherches faites à l'aide des rayons X. Paris, C.-R. soc. biol., **61**, 1906, (417-419).

Bouin, P. *vide* Ancel, P.

Boule, Marcellin. Les grands chats des Cavernes. Ann. Palaeont., Paris, **1**, pt. 2, 1906, (1-27, 4 pls.).

Boussac, P. Hippolyte. 1. La lièvre d'Égypte. Naturaliste, Paris, **28**, 1906, (53-55, 66-68, 84-86, figg.).

(**Boussac, P. H.** 2. Le Chacal dans l'Égypte pharaonique. Naturaliste, Paris, sér. 2, **26**, 1904, (245-248).)

Bovero, Alfonso. 1. Gliandole sebacee libere. Nota di morfologia comparata. Archivio sc. med., Torino, **28**, 1904, (541-556).

Bovero, A. 2. Morfologia delle arterie della glandula mammaria. Torino, Giorn. Acc. med., **69**, 1906, (173-178).

Bovero, A. 3. Intorno ad un gruppo di singolari canali vascolari del postsfenoidé negli *Sciuromorpha*. C.-R. ass. anat., 7^e session, (Genève), **1905**, Nancy, 1906, (114-119, fig.); Torino, Giorn. Acc. med., **68**, 1905, (709-716, pl.).

Bradley, O. Charnock. 1. A contribution to the development of the interphalangeal sesamoid bone. Anat. Anz., Jena, **28**, 1906, (528-536).

Bradley, O. C. 2. On the development of the hind-brain of the Pig. J. Anat. Physiol., London, **40**, 1906, (133-152).

Brandt, Karl. Das Fegen und die Farbe des Gehörns. Wild u. Hund, Berlin, **12**, 1906, (1-4).

Braun, Max. 1. Bemerkungen über das Zungenbein von *Mustela martes*. Zool. Anz., Leipzig, **29**, 1906, (674-675, figs.).

Braun, M. 2. Die Ausführungsgänge der Milchdrüse von *Phocaena communis*. Zool. Anz., Leipzig, **29**, 1906, (702-703, fig.).

Braun, M. 3. Ein Blasengeweih vom Reh. Königsberg, Schr. physik. Ges., **47**, 1906, (84-86).

Braun, M. 4. Anatomisches und Biologisches über den Tümmler. Königsberg, Schr. physik. Ges., **46**, (1905), 1906, (136-141, 146).

Braun, M. 5. Die Seehundsarten der Ostsee. Königsberg, Schr. physik. Ges., **46**, (1905), 1906, (196-200, pls.); Ber. Fischereiver. Ostpr., Königsberg, **1906-07**, 1906, (6-7).

Brébion, Ant. Un Quadrupède non-déterminé: Le Cou-gain-heo. Chalon-sur-Saône, Biol. soc. sci. nat., **12**, Nos. 11 & 12, 1906, (xxxix-xl).

Bresslau, E. Präparate zur Entwicklung des Mammarapparates und des Beutels von *Echidna aculeata*. Verh. D. zool. Ges., Leipzig, **1906**, (261-262).

Bretscher, K. Zur Geschichte des Wolfes in der Schweiz. Zürich, Neu-jahrbl natf. Ges., **1906**, (1-39).

[**British Museum.**] 1. The History of the Collections contained in the Natural History Departments of the British Museum. Vol. 2, Collections in the Department of Zoology, 1906. [The history of the Mammal Collection is by O. Thomas, while R. Lydekker treats of Domesticated Mammals.]

[**British Museum.**] 2. Guide to the Galleries of Mammals (exclusive of *Ungulata*). 1906, (1-101). [R. Lydekker.]

Broek *vide* Van den Broek.

Brooks, Harlow. The Idaho Moose. New York, N.Y., Rep. Zool. Soc., **10**, 1906, (201-216, figg.).

Broom, R. 1. On some little known bones of the mammalian skull. Cape Town, Trans. S. Afric. Phil. Soc., **16**, 1906, (369-372, pls.).

Broom, R. 2. On the origin of mammals. Johannesburg, Addresses, Cape Town, Rep. S. Afric. Ass., **3**, (1905), 1906, (1-12, figg.); London, Rep. Brit. Ass., **1905**, (437-438).

Broom, R. 3. On the arrangement of the epiphyses of the mammalian metacarpals and metatarsals. Anat. Anz., Jena, **28**, 1906, (106-108).

Brown, R. N. R. [and Others]. The Voyage of the Scotia. Edinburgh, 1906, (xxiv + 375, illustr.).

Brumpt, E. Anomalies viscérales chez un veau bicéphale du *Bos indicus*. Paris, Bul. soc. zool., **27**, 1902, (209-211, fig.).

Brunelli, G. Sulla origine della letargia nei Mammiferi. *Mon. zool. ital.*, Firenze, **17**, 1906, (111-144).

Bütow, A. 1. Wie lange versorgt die Häsinn ihre Jungen? *Wild u. Hund*, Berlin, **12**, 1906, (393-394).

Bütow, A. 2. Das Familienleben der Füchse. *Sanct Hubertus*, Cöthen, **24**, 1906, (213).

Büttikofer, J. Das neue Affenhaus des zoologischen Gartens in Rotterdam. *Zool. Beob.*, Frankfurt a. M., **47**, 1906, (33-42).

Burckhardt, R. 1. Demonstration eines Okapi-Embryo. *Verh. D. zool. Ges.*, Leipzig, **1906**, (262-263).

Burckhardt, R. 2. On the embryo of the Okapi. London, *Proc. Zool. Soc.*, **1906**, (762-763).

Cabrera, Angel. 1. Sobre el Chimpancé llamado "engana" por los pámulos del Muni. [On the Chimpanzee known as Engana to the natives of Muni.] Madrid, *Bol. Soc. esp. Hist. Nat.*, **6**, 1906, (183-185).

Cabrera, A. 2. Mamíferos de Mogador. [Mammals of Mogador.] Madrid, *Bol. Soc. esp. Hist. Nat.*, **6**, 1906, (357-368).

Cabrera, A. 3. Sobre la nomenclatura de algunos géneros del orden Primates. [On the nomenclature of several genera of the order Primates.] Madrid, *Bol. Soc. esp. Hist. Nat.*, **6**, 1906, (467-471).

Calvet, L. *vide* Anthony, R.

Camerano, Lorenzo. 1. Osservazioni intorno alla *Talpa caeca*. Torino, *Boll. Musei zool. anat.*, **21**, No. 530, 1906, (1-8).

Camerano, L. 2. Ricerche intorno allo Stambecco delle Alpi. Torino, *Mem. Acc. sc.*, ser. 2, **16**, 1906, (283-358, pls. i-v); **17**, 1906, (1-70, pls. i, ii).

Camerano, L. 3. Spedizione al Ruwenzori di S. A. Luigi di Savoia. *Felis pardus ruwenzorii* n. subsp. Nota preventiva. Torino, *Boll. Musei zool. anat.*, **21**, No. 545, 1906, (1-6).

Camerano, L. 4. Ricerche intorno alla *Talpa romana* e ad altre forme di talpe europee. Torino, *Mem. Acc. sc.*, Ser. 2, **54**, 1904, (81-128, 1 tav.).

Cameron, A. Gordon. Typical Stags, V. Field, London, **107**, 1906, (119).

Capellini, G. Balene Fossili Toscane; iii, *Idiocetus guicciardinii*. Bologna, *Mem. Ac. Sc.*, ser. 6, **2**, 1906, (15-24, pls. i, ii).

Capobianco, Francesco. Sulla rigenerazione sperimentale del parenchima ovarico. Napoli, *Boll. Soc. nat.*, **19**, (1905), 1906, (54-60, 1 tav.).

Carraro, Arturo. Le modificazioni dell'epitelio uterino durante la gravidanza in alcuni animali. *Archivio sc. med.*, Torino, **30**, 1906, (364-394).

Carrueio, A. Sopra un raro Delfino (*Grampus griseus* G. Cuv.) di recente catturato presso la spiaggia di S. Vincenzo. Roma, *Boll. Soc. zool. ital.*, ser. 2, **7**, 1906, (207-214, 241-245).

Cartolari, Enrico. Ermafroditismo spurio negli Ovini. *Riv. ital. sc. nat.*, Siena, **26**, 1906, (12-14).

Carus, Paul. Anthropoid apes; Man's nearest kin in the animal world. The Open Court, Chicago, Ill., **20**, 1906, (6-25, illustr.).

Cary, Merritt. Identity of *Eutamias pallidus* (Allen), with a description of a related form from the S. Dakota Bad Lands. Washington, D.C., *Proc. Biol. Soc.*, **19**, 1906, (87-90).

Castillo, Luis. La Caza de la Ballena en la Isla Santa Maria. [Whaling in the Island of Santa Maria.] Santiago de Chile, 1906, (1-8).

Castle, W[illiam] E[rnest]. 1. Yellow mice and gametic purity. *Science*, New York, N.Y., **24**, 1906, (275-281).

Castle, W. E. 2. Origin of a polydactylous race of guinea-pigs. Brooklyn, N.Y., Cold Spring Harbor *Evolut. Papers*, No. **6**, 1906, (1-29); Washington, D.C., *Publ. Carnegie Inst.*, **49**, 1906, (15-29).

Castle, W. E. 3. Heredity of coat-characters in guinea-pigs and rabbits. Washington, D.C., *Publ. Carnegie Inst.*, No. **23**, 1905, (1-78). 8vo.

Castle, W. E. and Forbes, A. Heredity of hair-lengths in guinea-pigs, and its bearing on the theory of pure gametes. Brooklyn, N.Y., Cold Spring Harbor *Evolut. Papers*, No. **5**, 1906, (1-14, figg.); Washington, D.C., *Publ. Carnegie Inst.*, **49**, 1906, (1-14).

Cattaneo, Giacomo. Intorno alle cripte glandulari e alla mucosa gastrica dei Denticeti. Milano, Rend. Ist. lomb., ser. 2, **36**, 1903, (943-948, fig.).

Cesa-Bianchi, Domenico. 1. Di una particolarità di struttura della cellula nervosa dei gangli spinali. Mon. zool. ital., Firenze, **17**, 1906, (6-16, figg.).

Cesa-Bianchi, D. 2. Über das Vorkommen besonderer Gebilde in den Eiern mancher Säugetiere. Arch. mikr. Anat., Bonn, **67**, 1906, (647-679, pl. xxxii).

Cesaris-Demel, A. Sulla particolare struttura di alcuni grossi leucociti mononucleati della Cavia colorati a fresco. Archivio sc. med., Torino, **29**, 1905, (288-303).

Chaine, J. vide Künstler, J.

Chapman, Henry G. Note on cerebral localization in the Bandicoot (*Perameles*). Sydney, N.S.W., Proc. Linn. Soc., **31**, 1906, (493-494, fig.).

Chiò, Mario. Il sangue dell' Urangutan è più affine al sangue dell'uomo che non a quello delle scimmie non antropoidi. Torino, Atti Acc. sc., **41**, 1905-6, (1093-1097).

Church, Morton L. vide Copeland, Manton.

Claypon, J. E. Lane- and Starling, E. H. An experimental enquiry into the factors which determine the growth and activity of the mammary glands. London, Proc. R. Soc., B, **77**, 1906, (505-552).

Cobbett, H. H. Pleistocene Mammalian remains near Doncaster. Naturalist, London, **1906**, (109).

Cocks, A. Heneage. Bats in Berkshire. Zoologist, London, ser. 4, **10**, 1906, (185-187).

Collett, R. Nogle meddelelser om næbkvalen (*Hyperoodon*) og hvidfisken (*Delphinapterus*). [Some notes on Bottle-nosed (*Hyperoodon*) and White Whales (*Delphinapterus*).] Bergens Mus. Aarb., **1906**, art. 6, (1-25).

Comes, S. Sulla struttura e sulla costituzione chimica della zona pellucida dell'uovo di alcuni Mammiferi. Catania, Boll. Acc. Gioenia, ser. 2, fasc. **87**, 1906, (28-33, figg.).

Comes, S. vide Polara, G.

Condon, Thomas. A new fossil Pinniped (*Dermatophoca oregonensis*) from the Miocene of the Oregon coast. Oregon Univ. Bulletin, **3**, Suppl. No. 3, 1906, (1-14).

Copeland, Manton and Church, Morton L. Notes on the Mammals of Grand Manan, N.B., with a description of a new subspecies of white-footed mouse. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (121-126).

Coraini, E. L'articolazione bigemina del bregma comparativamente studiata negli animali attuali. Roma, Atti Soc. romana antrop., **7**, 1901, (49-66, figg.).

Corbin, G. B. Stoats in winter dress in Hampshire. Zoologist, London, ser. 4, **10**, 1906, (187-188).

Corti, Alfredo. 1. Per la genesi endoteliale e la natura degenerativa dei globuli bianchi mononucleati del sangue. Mon. zool. ital., Firenze, **17**, 1906, (322-325).

Corti, A. 2. Su i globuli bianchi del sangue dei Mammiferi. Mon. zool. ital., Firenze, **17**, 1906, (124-138).

Coward, T. A. On some habits of the Lesser Horseshoe Bat (*Rhinolophus hipposiderus*). London, Proc. Zool. Soc., **1906**, (849-855).

Cross, H. H. How the Antelope protects its young. The Century Magazine, New York, N.Y., **71**, 1906, (783-788, illustr.).

Cuénot, L. Hérité et mutation chez les souris. Paris, C.-R. Ass. franç. avanc. sci., **34**, (Cherbourg, 1905, 2^e Partie), 1906, (593-597).

Cunningham, D. J. 1. The varying form of the stomach in Man and the Anthropoid Ape. Edinburgh, Trans. R. Soc., **45**, 1906, (9-104, figg.).

Cunningham, J. T. 2. On a Horse bearing horn-like structures. London, Proc. Zool. Soc., **1905**, 2, 1906, (323, 324).

Cutore, Gaetano. Ghiandole intraepiteliali pluricellulari nella cistifellea del cane e sulla loro affermata presenza nella mucosa uretrale muliebre. Archivio ital. Anat. Embriol., Firenze, **5**, 1906, (454-465, 1 pl.).

Cuvier, G. Lettre autographe. Bordeaux, Actes soc. linn., sér. 6, **10**, 1905, frontispice.

Czékus. Okapija, *Ocapia johnstoni*, Ray Lankester. Glasnik. Naravosl. druzt., Zagreb, **14**, 1902, (1-5, fig.)

Dale, T. B. "The Fox" (Fur, Feather and Fin series). London, 1906, (xiii + 238).

(**Daleau.** La *Genetta vulgaris* dans le département de la Gironde. Bordeaux, Actes soc. linn., sér. 6, **10**, 1905, Proc. verb. (lvi-lvii).)

Dalgliesh, Gordon. 1. Field-notes on the smaller British Mammals. Zoologist, London, ser. 4, **10**, 1906, (168-173).

Dalgliesh, G. 2. Notes and observations on Mammals collected and observed in the Darjeeling district, India. Bombay, J. Nat. Hist. Soc., **17**, 1906, (122-127).

Damant, G. C. C. The normal temperature of the Goat. Proc. Physiol. Soc., J. Physiol., Cambridge, **35**, 1906, (v).

Davies, C. J. Colour-inheritance in Guinea-Pigs. Field, London, **108**, 1906, (511).

Davis, William T. The drumming habit of the White-footed, or Deer-Mouse. New Brighton, N.Y., Proc. Nat. Sci. Ass. Staten Is., **9**, 1903, (3).

Dechambre, P. Les Bovins de l'Indo-Chine. Rev. colon., Paris, **1906**, (506-516).

Deimler, Konrad. Vergleichende Untersuchungen über die Pylorusdrüsenzzone des Magens und die Duodenaldrüsenzzone des Darmkanals der Haussäugetiere. Intern. Monatschr. Anat., Leipzig, **22**, 1905, (209-229).

Delage, Yves. Capture d'un Cachalot du genre *Kogia* Gray, sur les côtes de la Manche à Roscoff. Paris, C.-R. Acad. sci., **142**, 1906, (258-260, figg.).

Denker, Alfred. 1. Das Monotremenohr in phylogenetischer Beziehung. Verh. D. otol. Ges., Jena, **10**, 1901, (147-153).

Denker, A. 2. Die Eustachische Röhre des Ameisenfressers. Verh. D. otol. Ges., Jena, **13**, 1904, (73-75).

Dennhardt. Ueber die Form des Uterus des Rindes. D. tierärztl. Wochenschr., Hannover, **14**, 1906, (64).

De Pauw, L. et Willemsen, G. Note sur les Cétacés échoués dans l'Escaut en 1577. Saint-Nicolas, Ann. Cercle

archéolog. du pays de Waes, **33**, livr. 2, 1905, (1-11, figg.).

Dennys, F. O. B. How Tigers kill their prey, with supplemental note by F. C. Selous. Bombay, J. Nat. Hist. Soc., **17**, 1906, (245-247).

Depéret, Charles. 1. L'évolution des Mammifères tertiaires; importance des migrations. Paris, C.-R. Acad. sci., **142**, 1906, (618-620); **143**, 1906, (1120-1123).

Depéret, C. 2. Los Vertebrados del Oligocene Inferior de Tarrega (Prov. de Lérida). [Vertebrates of the Lower Oligocene of Tarrega (Prov. of Lerida).] Barcelona, Mem. R. Ac. Cs., ser. 3, **5**, 1906, (401-451, pls. i-v).

(**Depéret, C.** 3. L'évolution des Mammifères tertiaires, importance des migrations. Paris, C.-R. Acad. sci., **141**, 1905, (702-705).)

Derocque, P. et Gadeau de Kerville, Henri. Note sur un tout jeune chien monstrueux. (Célosomien hémimèle anoure). Rouen, Bul. soc. amis sci. nat., sér. 4, **40**, 1905, (201-203, av. pl.). [6203]

Detmers, Erwin. Einiges über die Waldmaus (*Mus sylvaticus*). Zool. Beob., Frankfurt a. M., **47**, 1906, (101-104).

Dexler, H. und Freund, L. 1. Zur Biologie und Morphologie von *Halicore dugong*. Arch. Natg., Berlin, **72**, Bd. 1, 1906, (77-106, 3 pls.).

Dexler, H. and Freund, L. 2. Contributions to the physiology and anatomy of the Dugong. Amer. Nat., Boston, Mass., **40**, 1906, (49-72).

Dexler, H. and Freund, L. 3. External morphology of the Dugong. Amer. Nat., Boston, Mass., **40**, 1906, (567-582).

Dexler, H. and Marjulier, A. Über die Pyramidenbahn des Schafes und der Ziege. Morph., Jahrb. Leipzig, **35**, 1906, (413-449).

Dieulafé et Herpin. Chevreau ectromèle adapté à la station verticale. Nature, Paris, **1906**, 2^e sem., (79-80, fig.).

Dimpfi, H. Die Teilung der Kloaka bei *Cavia cobaya*. Morph. Jahrb., Leipzig, **35**, 1906, (17-64, pls. ii, iii).

Disse, J. 1. Die Eikammer . . . Anat. Hefte, Wiesbaden, 2nd sect., **15**, 1906, (530).

Disse, J. 2. Die Vergrößerung der Eikammer bei der Feldmaus (*Arvicola arvalis*). Arch. mikr. Anat., Bonn, **68**, 1906, (215-251, pls. xv-xviii).

Disselhorst, Rudolf. 1. Die Anatomie und Physiologie der grossen Haussäugetiere mit besonderer Berücksichtigung der Beurteilungslehre des Pferdes. Für Landwirte u. Tierzüchter bearb. Berlin (P. Parey), 1906, (xii + 386). 25 cm. Geb. 12 M.

Disselhorst, R. 2. Zur Morphologie und Anatomie der Halsanhänge beim Menschen und den Ungulaten. Anat. Anz., Jena, **28**, 1906, (321-327).

Dittrich, Hermann *vide* Ellenberger, W[ilhelm].

Dobers, Richard Ludwig Gotthart *vide* Baum, Hermann.

Dogiel, A. S. Die Endigungen der sensiblen Nerven in den Augenmuskeln und deren Sehnen beim Menschen und den Säugetieren. Arch. mikr. Anat., Bonn, **68**, 1906, (501-526, pls. xxxii-xxxiv).

Dollfus, Adrien. Les rois des rats. Feuille jeunes natural., Paris, **36**, 1906, (174-175, 185-189, fig.).

Dollo, Louis. Le pied de l'*Amphiproteron* et l'origine arboricole des Marsupiaux. Bruxelles, Bul. Soc. géol., **20**, 1906, (1-3).

Doncaster, L. On the inheritance of coat-colour in Rats. Cambridge, Proc. Phil. Soc., **13**, 1906, (215-221).

Dorello, Primo. Osservazioni macroscopiche e microscopiche sullo sviluppo del corpo calloso e dell' arco marginale nel *Sus scrofa*. Roma, Ric. Lab. anat. norm., **9**, pt. 3, 1903, (177-215, 2 pls.).

Douglass, Earl. 1. Generic names of Merycoidodonts. Science, New York, N.Y., **29**, 1906, (565-567).

[**Douglass, Earl. 2.** The Tertiary of Montana. Pts. i and ii. Pittsburg, Pa., Mem. Carnegie Mus., **2**, 1905, (203-233, pl. xxii).]

Douglass, Earl. 3. A Cretaceous and Lower Tertiary Section in South Central Montana. Washington, D.C., Proc.

Phil. Soc., **41**, 1902, (207-224, pl. xxix). [6027 gb.]

Dupreuil, G. *vide* Regaud, Cl.

Duerst, J. Ulrich. Ein Beitrag zur Erforschung der Geschichte der ältesten Haustiere auf Grund der neuesten amerikanischen Ausgrabungen in Zentralasien. D. landw. Tierzucht, Leipzig, **10**, 1906, (385-387, 401-403).

Duffo, A. Contribution à l'étude de la polydactylie. Paris, 1905, (67, figs.).

Dugés, A. 1. Apuntes para una monografía de *Desmodus rufus*, Wied. [Notes for a monograph of *Desmodus rufus*, Wied.] Mexico, Mem. Soc. Ant. Alzate, **23**, 1906, (65-72, 3 pls.).

Dugés, A. 2. Murcielego del genero *Ichnoglossa*. [Notes on the genus *Ichnoglossa*.] Mexico, Mem. Soc. Ant. Alzate, **24**, 1906, (117-119, fig.).

Dutt, William A. Wild Life in East Anglia. London, 1906, (370).

Dyakowski, B[ohdan]. Świstak. [La Marmotte de Tatra.] Wszechświat, Warszawa, **25**, 1906, (113-117, 137-141, 151-155).

Dybowski, B[enedykt]. 1. Zęby zwierząt ssących. Część II i III. [Les dents des Mammifères. Parties I, II.] Kosmos, Lwów, **31**, 1906, (1-20, 84-107, 169-185).

Dybowski, B. 2. Zęby zwierząt ssących. Część III. [Sur les dents des Mammifères. III Partie.] Kosmos, Lwów, **31**, 1906, (264-291, 313-333).

Dzerżgovskij, S. K. *vide* Dzerżgovskij, V. S.

[**Dzerżgovskij, V. S., Dzerżgovskij, S. K. und Súmova, N. O.**] Держговский, В. С., Держговский, С. К. и Шумова, Н. О. О влиянии никелевых солей на животный организм. [Ueber die Wirkung der Nickelsalze auf den thierischen Organismus.] Arch. sc. biol., St. Peterburg, **12**, 1906, (327-350).

Eastman, C[harles] R[ochester]. 1. The real Unicorn. [Asiatic ruminant.] Science, New York, N.Y., **23**, 1906, (195).

(**Eastman, C. R. 2.** Sharks' teeth and cetacean bones. [Reports on the Scientific Results of the Expedition to the Eastern Tropical Pacific.] Cam-

bridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **50**, 1906, (73-98, 4 pl.)

Eggeling, H[einrich]. Nochmals zur Morphologie der Augenlider. Anat. Anz., Jena, **29**, 1906, (35-41).

Ehrmann, Rud. Zur Physiologie und experimentellen Pathologie der Adrenalinsekretion. Arch. exper. Path., Leipzig, **55**, 1906, (39-46).

Ellenberger, Wilhelm. Handbuch der vergl. mikr. Anatomie der Haustiere vol. **1**. Berlin, 1906, with contributions by specialists.

Ellenberger, W., **Baum**, Hermann und **Dittrich**, Hermann. Handbuch der Anatomie der Tiere für Künstler. I. Pferd. 2. Aufl. Leipzig, 1906, (48, 24 pls.).

[**Elliot**, D. G. **1**. Descriptions of apparently new species and subspecies of Mammals from Mexico and San Domingo. Washington, D.C., Proc. Biol. Soc., **18**, 1905, (233-236).]

[**Elliot**, D. G. **2**. Description of an apparently new species of *Microgale* from Madagascar. Washington, D.C., Proc. Biol. Soc., **18**, 1905, (237).]

Elliot, D. G. **3**. Description of an apparently new species of Monkey of the genus *Presbytis* from Sumatra and of a Bat of the genus *Dermoptera* from Mexico. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (49-50).

Elliot, D. G. **4**. On *Mephitis olida*, Boitard. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (95).

Elliott, T. R. Degenerative section of the nerves to the cat's bladder. Proc. Physiol. Soc., J. Physiol., Cambridge, **33**, 1906, (xxix-xxxi).

Endrey, Elemér. **1**. Ismeretlen emlősök Délmagyarország területén. [Unbekannte Säugetiere in Südungarn.] Délmagy. Term. Füz., Temesvár, **30**, 1906, (132-134).

Endrey, E. **2**. A merei poczokról (*Microtus arvalis* Pall.) és az úgynevezett egérjávról. [Über die Feldmaus (*Microtus arvalis* Pall.) und über den sogenannten Mausgang.] Délmagy. Term. Füz., Temesvár, **30**, 1906, (237-235).

Engelien, Adolf. Das dritte Augenlid des Hundes und einige pathologische

Veränderungen desselben mit besonderer Berücksichtigung der Neubildungen. Diss. Giessen, 1906, (32, pls.).

Entz, Géza. A patkányok bevándorlásának kérdése. [Über die Einwanderung der Ratten.] Állatt. Közlem., Budapest, **5**, 1906, (1-25, fig.).

Erdheim, J. Zur Anatomie der Kiemenderivate bei Ratte, Kaninchen und Igel. Anat. Anz., Jena, **29**, 1906, (609-623, figg.).

Evans, G. H. **1**. Notes on the Goral found in Burma. London, Proc. Zool. Soc., **1905**, 2, (311-314).

(**Evans**, G. H. **2**. Traité sur les Éléphants, leurs soins habituels et leur traitement dans les maladies. Traduit de l'anglais par J. Claine. Paris (Schleicher), 1904, (xiii + 342, figs. et pl.).)

Evans, G. H. **3**. Notes on Rhinoceroses in Burma; *R. sondaicus* and *sumatrensis*. Bombay, J. Nat. Hist. Soc., **16**, 1905, (555-561).

Evans, W. The Mammals of the Edinburgh or Forth area. Edinburgh, Proc. R. Physic. Soc., **16**, 1906, (387-405).

Evatt, Evelyn J. The development and evolution of the "papillary" ridges and patterns on the volar surface of the hand. J. Anat. Physiol., London, **41**, 1906, (66-71, figg.).

Ewart, J. Cossar. The Tarpan and its relationships with wild and domestic Horses. Edinburgh, Proc. R. Soc., **26**, 1906, (7-21).

Fairchild, David. Cats as plant investigators. Science, New York, N.Y., **24**, 1906, (498-499).

Fano, da Corrado. Osservazioni sulla fine struttura della nevroglia. Roma, Ric. Lab. anat. norm., **12**, 1906, (101-176, 5 pls.).

[**Faussek**, V.] Фаусекъ, В. Биологическія изслѣдованія въ Закаспійской Области. [Biologische Untersuchungen in Transkaspien.] St. Peterburg, Zap. Russ. Geogr. Obsč., **27**, 2, 1906, (1-192, 4 pls.).

Féré, Ch. Les portées noires de deux souris blanches. Paris, C.-R. soc. biol., **61**, 1906, (117-118).

Ferrata, Adolfo. Sui globuli bianchi mononucleati. Archivio sc. med., Torino, **30**, 1906, (217-249, 2 pls.).

Ferris, W. B. Note on the Malay Tapir in captivity. Bombay, J. Nat. Hist. Soc., **17**, 1906, (242-243).

Festa, E. Viaggio nel Darien, nell'Ecuador e regioni vicine: Mammiferi. e Chiroterii. Torino, Boll. Musei zool. anat., **21**, No. 524, 1906, (1-8).

[**Fischer, Eugen.** Primordialcranium von *Talpa europaea*; ein Beitrag zur Morphologie des Säugethierschädels. Anat. Hefte, Wiesbaden, **17**, 1901, (539-548).]

Fischer, Johannes. Vergleichend-anatomische Untersuchungen über den Nervus sympathicus einiger Tiere, insbesondere der Katze. Arch. Thierheilk., Berlin, **32**, 1906, (89-106, 3 Taf.).

Fitzgerald, (Miss) M. P. The structure of the lumbo-sacral cord of the Macaque Monkey (*Macacus sinicus*). London, Proc. R. Soc., B, **78**, 1906, (88-147).

Fleischmann, Leo. Die Entwicklung der Zahnscheiden; gleichzeitig ein Beitrag zur Entwicklung der Zahnbein-grundsubstanz. Arch. mikr. Anat., Bonn, **68**, 1906, (297-310, pl.).

Flint, J. M. 1. The development of the lungs in the pig. Anat. Anz., Jena, **29**, 1906, (24-35).

Flint, J. M. 2. The growth of the bronchial tree; preliminary note. Anat. Anz., Jena, **28**, 1906, (272-286).

Flower, Stanley S. Report on Mission to Europe, 1905. Cairo, Public Works Dept., 1906, (1-43).

Földvály, Dezső. A csúcsosnyergű patkósdenevér (*Rhinolophus blasii* Ptrs.) Magyarországon. [*Rhinolophus blasii* Ptrs. in Ungarn.] Állatt. Közlem., Budapest, **5**, 1906, (140-146, Taf. vi).

Forbes, A. vide Castle, W. E.

Forgeot, Eugène Henri. 1. Sur la composition histologique de la lymphe des Ruminants. Paris, C.-R. Acad. sci., **143**, 1906, (190-192).

Forgeot, E. H. 2. Composition histologique de la lymphe des Ruminants. Paris, C.-R. Ass. franç. avanc. sci., **35**, (Lyon, 1906, 1^{re} Partie), 1906, (103-104).

Forgeot, E. H. vide Lesbre, F. X.

Forrest, H. E. Mammals of Shrewsbury District. Shrewsbury, Rec. Caradoc. F. Cl., **16**, 1906, (23-24).

Fox, W. Storrs. On some bones of the Lynx from Cales Dale, Derbyshire. London, Proc. Zool. Soc., **1906**, (65-72).

Frasetto, F[abio]. Le forme craniche degli Antropoidi (*Simiidae*) in rapporto alle umane. Roma, Atti Soc. romana antrop., **10**, 1904, (43-71, figg.).

Frédéric, J. Nachtrag zu den „Untersuchungen über die Sinushaare der Affen.“ Zs. Morph., Stuttgart, **9**, 1906, (327-330).

Freitag, Fritz. Zur Entwicklung und Einteilung des Kleinhirnes der Haussäuger. Diss. Giessen, 1906, (72, 2 pls.).

Freund, L. vide Dexler, H.

Fritze, [Adolf]. 1. *Saiga tatarica* aus der Kirgisen-Steppe. Hannover, Jahrb. ProvMus., **1905-1906**, 1906, (42-43, pl.).

Fritze, A. 2. Katalog der Säugetier-Sammlung des Provinzial-Museums zu Hannover. Hannover, Jahrb. ProvMus., **1905-1906**, 1906, (47-72).

Fritze, A. 3. Abnorm gefärbte einheimische Säugetiere und Vögel in der Sammlung des Provinzial-Museums zu Hannover. Hannover, Jahrb. ProvMus., **1904-1905**, 1905, (20-23).

Fuchs, Gilbert. Nagerschaden in den Karawanken im Jahre 1905. Natw. Zs. Landw., Stuttgart, **4**, 1906, (204-214).

Fuchs, Hugo. 1. Untersuchungen über die Entwicklung der Gehörknöchelchen, des Squamosums und des Kiefergelenkes der Säugetiere, nebst einigen vergleichend-anatomischen Betrachtungen über Articulare, Quadratum und Gehörknöchelchen. Arch. Anat. Physiol., Leipzig, anat. Abt., **1906**, SupplBd, (1-89, 6 pls.).

Fuchs, H. 2. Nachtrag zu meiner Arbeit: Bemerkungen über die Herkunft und Entwicklung der Gehörknöchelchen bei Kaninchen-Embryonen etc. Anat. Anz., Jena, **28**, 1906, (317-318).

Furlong, E. L. The exploration of Samwell Cave. Amer. J. Sci., New Haven, Conn., ser. 4, **22**, 1906, (235-247, figg.).

Gadeau de Kerville, Henri. Notes sur les lapins domestiques privés d'une ou des deux conques auriculaires. Paris, Bul. soc. zool., **31**, 1906, (71-74).

Gadeau de Kerville, H. v. Derocque, P.

Gaillard, Claude. Les musaraignes momifiées de l'ancienne Egypte. Paris, C.-R. ass. franç. avanc. sci., **35**, (Lyon, 1906, 1^{re} partie), 1906, (118).

Galien-Mingaud. Le castor du Rhône et ses parasites. Nature, Paris, **33**, 2^e sem., 1905, (118-119, fig.).

Galien-Mingaud *vide etiam* Mingaud, Galien.

Ganzer, Hugo. Die physiologische Injektion zum Studium der Histogenese des Zahnschmelzes. Anat. Anz., Jena, **28**, 1906, (436-442).

Gardiner, J. Stanley. The fauna and geography of the Maldive and Laccadive Archipelagoes. Cambridge, 2, suppl. 2, 1906, (1041-1079).

Gaudry, Albert. 1. Fossiles de Patagonie. Les attitudes de quelques animaux. Ann. Paléont., Paris, **1**, 1906, (1-42, figg.).

Gaudry, A. 2. Fossiles de Patagonie. Étude sur une portion du monde antarctique. Ann. Paléont., Paris, **1**, 1906, (101-143, figg.).

Gaup, E. Ueber allgemeine und specielle Fragen aus der Lehre vom Kopfskelett der Wirbeltiere. Anat. Anz., Jena, **29**, Suppl., 1906, (21-68, figg.).

Gaye, S. H. Glycogen in the nervous tissue of embryo Mammals. Science, New York, N.Y., **24**, 1906, (295-296).

Gebhart, [Walther]. Ein interessantes Bildungsgesetz (Elefantensto-zahn). Anat. Anz., Jena, **29**, 1906, ErgH., (218-256, Figg.).

Gemelli, Agostino. 1. I processi della secrezione dell' ipofisi dei Mammiferi. Archivio sc. med., Torino, **30**, 1906, (521-550).

Gemelli, A. 2. Nuove osservazioni sull' ipofisi delle Marmotte durante il letargo e nella stagione estiva. Biologica, Torino, **1**, 1906, (130-116).

Gemelli, A. 3. Sull' ipofisi delle Marmotte durante il letargo e nella stagione estiva. Milano, Rend. Ist. Lomb., ser. 2, **39**, 1906, (406-413); (N-9720 f)

Archivio sc. med., Torino, **30**, 1906, (341-349).

Gemelli, A. 4. Ulteriori osservazioni sulla struttura dell' ipofisi. Nota rias-suntiva. Anat. Anz., Jena, **28**, 1906, (613-628).

Gerhardt, Ulrich. 1. Studien über den Geschlechtsapparat der weiblichen Säugetiere. II. Ueber Wulstbildungen am Introitus vaginae der Ursiden. Jenaische Zs. Natw., **42**, 1906, (173-180).

Gerhardt, U. 2. Die Morphologie des Urogenitalsystems eines weiblichen Gorilla. (In: Beiträge zur Anatomie eines weiblichen Gorilla gesammelt v. W. Kükenthal.) Jenaische Zs. Natw., **41**, 1906, (632-654, 1 Taf.).

Gerhardt, U. 3. Zur Morphologie des Wiederkäuerpenis. Verh. D. Zool. Ges., Leipzig, **16**, 1906, (149-159).

Gerlach, L[eo]. Ueber die Bildung der Richtungskörper bei *Mus musculus*. Wiesbaden (J. F. Bergmann), 1906, (vii + 31, 2 Taf.). 33 cm. 7 M.

Gervais et Achalme. Contribution à l'étude de la tuberculose des grands Félinus. Bul. Muséum, Paris, **1906**, (344-349).

Gidley, J. Williams. 1. A fossil Raccoon from a California Pleistocene cave deposit. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **29**, 1906, (553-554).

Gidley, J. W. 2. A new Ruminant from the Pleistocene of New Mexico. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **30**, 1906, (165-167).

Gidley, J. W. 3. Evidence bearing on tooth-cusp development. Washington, D.C., Proc. Nation. Acad. Sci., **7**, 1906, (91-110, pls. iv, v).

Gidley, J. W. 4. A new genus of Horse from the Mascall beds, with notes on a small collection of equine teeth in the University of California. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, 1906, (385-388, fig.).

[**Giglioli**, E. 11. Il caso curioso della *Mus meridionalis*, O. Costa, e la scomparsa di quella specie. Napoli, Annuario Museo Zool., ser. 2, **1**, No. 9, 1903, (1-2).]

Gilmore, Charles W[hitney]. 1. Notes on a newly-mounted skeleton of *Merycoi-*

dodon, a fossil mammal. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **31**, 1906, (513-514, pl. xii).

Gilmore, C. W. 2. Additions to the series of vertebrate fossils. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **30**, 1906, (607-621, 3 pls.).

Gillmore, Gertrude A. The finer structure of the heart-muscle of the Dog. Lancaster, Pa., Trans. Amer. Microsc. Soc., **25**, 1906, (35-43, pls. iii-v).

Godfrey, R. The Black Rat in Orkney. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (49).

Göppert, Ernst. Säugetiere: Mammalia. [Forts.] (H. G. Bronn's Klassen u. Ordnungen des Tier-Reichs. Bd 6, Abt. 5, Lfg 71-75.) Leipzig, 1906, (1267-1330, pls.).

Gorjanović-Kramberger, Károly. 1. [in] O. Walkoff's Studien über die Entwicklungsmechanik des Primatenskelettes mit besonderer Berücksichtigung der Anthropologie und Descendenzlehre. Pt. 2. Mensch von Krapina, Wiesbaden, 1906, (i-xii, 59-279, 14 pls.).

Gorjanović-Kramberger, K. 2. Zur Altersfrage der diluvialen Lagerstätte von Krapina in Kroatien. Glasnik. Naravosl. druzt., Zagreb, **16**, 1904, (72-215, 377-381); **17**, 1905, (110-118).

Gorjanović-Kramberger, K. 3. A horvátországi krapinai diluviális ember. [Der diluviale Mensch von Krapina in Kroatien.] Földt. Közl., Budapest, **36**, 1906, (241-255, 307-322, Fig.).

Grabowsky, Fritz. Beitrag zur Biologie des Gorilla. [In] Beiträge zur Anatomie eines weiblichen Gorilla gesammelt v. W. Kükenthal. Jenaische Zs. Natw., **41**, 1906, (608-611, 1 Taf.).

Grandidier, G. Recherches sur les Lémuriens disparus. Nouv. Arch. Mus., Paris, sér. 4, **7**, 1905, (1-144, pl.); Thèse Fac. sci., Paris (Masson), 1905, (144, pl.).

Grandidier, G. et Neveu-Lemaire. Description d'une nouvelle espèce de Taton, type d'un genre nouvelle (*Tolyposides bicinctus*). Bul. Muséum, Paris, **1905**, (370-372).]

Granger, A. Catalogue des Mammifères sauvages et marines de la Charente-Inférieure, de la Gironde des Landes, et

des Basses-Pyrénées. Bordeaux, Actes Soc. linn., **61**, 1906, (205-216)

[**Grant, Madison.** Notes on Adirondack Mammals, with special reference to the Fur-Bearers, 8th and 9th Rep. Forest Fish and Game Com., New York, N.Y., **1906**, (319-331, illustr.)]

Gray, Albert A. Observations on the labyrinth of certain animals. London, Proc. R. Soc., B., **78**, 1906, (284-296, pls. xvi-xviii).

Gregory, J. W. The Dead Heart of Australia. London, 1906, (xvi + 371) [list of Mammals from Lake Eyre district].

Gregory, W. K. vide Berry, E. W.

Grevé, C. 1. Ausgestorbene und selten gewordene Tiere der Ostseeprovinzen Russlands. Riga, Korr.-blt. Naturf. Ver., **49**, 1906, (71-86).

Grevé, C. 2. Der kaukasische Wisent. Zool. Beo., Frankfurt a. M., **47**, 1906, (269-272).

Grevé, C. 3. Was wir über Stellers Seekuh wissen. Riga, Korr.-blt. Naturf. Ver., **48**, 1905, (145-156, Figg.).

Grieg, James. Nogle notiser fra et Spaekhuggerstacng ved Bildöstrømmen i januar 1904. [Some notes on 47 specimens of Killer-Whales captured at Bildöstrømmen, Jan. 1904.] Bergens Mus. Aarb., **1906**, art. 2, (1-28).

Gross, J. Über einige Beziehungen zwischen Vererbung und Variation. Biol. Centralbl., Berlin, **26**, 1906, (395-426, 508-524, 545-564).

Groyer, Friedrich. Ueber den Zusammenhang der Musculi tarsales (palpebrales) mit den geraden Augenmuskeln beim Menschen und einigen Säugetieren. Intern. Monatschr. Anat., Leipzig, **23**, 1906, (210-227, pl.).

Gruber, Carl. Bau und Entwicklung der äusseren Genitalien bei *Caria cobaya*. Morph. Jahrb., Leipzig, **36**, 1906, (3-26, pls. i, ii).

Gruber, W. Neue Fälle des Os intermetarsale. Morph. Jahrb., Leipzig, **36**, 1906, (82-89, pl. viii).

Grundmann, —. Oligodontie bei Ziegen. D. tierärztl. Wochenschr., Hannover, **12**, 1901, (161-162).

Güll, W. and others. Über die Agrogeologischen Verhältnisse des Ecsedi Láp. Budapest, Mitt. Ungar. geol. Anstalt, **14**, 1906, (283-332, figg. .)

Guiart, J. Le chimpanzé Consul. Paris, Bul. soc. zool., **28**, 1903, (189-194, 1 pl.).

Guthrie, C. C., Pike, F. H. and **Stewart, G. N.** The maintenance of cerebral activity in Mammals by artificial circulation. Amer. J. Physiol., Boston, Mass., **17**, 1906, (344-346).

(Haane, G[unnar]. Ueber die Cardiadrüsen und die Cardiadrüsenzzone des Magens der Haussäugethiere. Nachträgliche Bemerkung. Arch. Anat. Physiol., Leipzig, Anat. Abt., **1905**, (463-464).)

Hachet-Souplet. L'intelligence des chats. Bul. Inst. psych. internat., Paris, **3**, 1903, (128-136, 201-205). [Discussion: MM. Barrier, Artault, Pernier, Oppenheimer, Giard.]

Haerberlin, Arthur. Der anatomische Bau des Nervus recurrens beim Kaninchen. Arch. Laryng., Berlin, **18**, 1906, (20-38).

Hagemann, Oscar. Lehrbuch der Anatomie und Physiologie der Haus-Säugetiere. Gemeinfassliche Belehrung für Studierende der Landwirtschaft und der Veterinärmedizin, Landwirte, Tierärzte und Tierbesitzer. Tl 2: Physiologie der Haus-Säugetiere. Stuttgart (E. Ulmer), 1906, (xii + 460, 1 Taf.).

Hagmann, G. Anomalien im Gebiss brasilianischer Säugethiere. Verh. D. Zool. Ges., Leipzig, **16**, 1906, (274-276).

Haller, B. Beiträge zur Phylogenese des Gross-hirns der Säugetiere. Arch. mikr. Anat., Bonn, **69**, 1906, (117-222, pls. v-viii).

Hamy, E. F. 1. Sur la variété noire du *Mus decumanus* observée au Muséum de Paris. Bul. Muséum, Paris, **1906**, (87-89).

Hamy, E. F. 2. La légende du Singe chaussé. Nature, Paris, **1906**, (113-114, fig.).

Hamy, E. F. 3. Une lettre de Frédéric Cuvier à Richard Harlan, 1825. Bul. Muséum, Paris, **1906**, (133-136).

Hamy, E. F. 4. Le *Gulo borealis* dans la Grotte de la Grande Chambre à (n-9720 f)

Rinxert (Pas de Calais). Bul. Muséum, Paris, **1906**, (136-138).

(Harper, E. H. Studies in the inheritance of color in Percheron horses. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **9**, 1905, (265-280).)

Harting, J. E. A Whale at Mersey in 1299. Stratford, Essex Nat., **14**, 1906, (149-152).

Hartz, N. and **Winge, Herluf,** Om Uroxen pa Vig, saaret og dræbt med flint-vaaben [On Aurochs from Vig, killed and wounded with flint-weapons.] Aarbog f. Nordisk Oldkyndighed og Historie, Kjöbenhavn, 1906, (235-236, pl. i).

Harvie-Brown, J. A. A Fauna of the Tay Basin and Strathmore. Edinburgh (D. Douglas), 1906, (lxxxv + 377, pls. and maps).

Heiberg, K. A. Beiträge zur Kenntnis der Langerhansschen Inseln im Pankreas, nebst Darstellung einer neuen mikroskopischen Messungsmethode. Anat. Anz., Jena, **29**, 1906, (49-60).

Heidenhain, Martin. Ueber die gegenseitige Entsprechung von Epidermis- und Coriumleisten an der Beugefläche von Hand und Fuss beim Affen und Menschen. Anat. Hefte, Wiesbaden, Abt. I, **30**, 1906, (419-431, 1 pl.).

Heine, [Leopold]. Das Auge des Gorilla. [In] Beiträge zur Anatomie eines weiblichen Gorilla gesammelt v. W. Kükenthal. Jenaische Zs. Natw., **41**, 1906, (612-617, 1 Taf.).

Heitz. 1. Ueber den Bau der Kalbs-ovarien. Arch. Thierheilk., Berlin, **32**, 1906, (477-512, 1 pl.).

Heizer, Isidor. A pata mechanismusa és hibás patakézelése. [Mechanismus des Hufes und die Behandlung der fehlerhaften Hufe.] Allatorv. I., Budapest, **29**, 1906, (385-388, 398-402, 410-415).

Henderson, Y. The volume curve of the ventricles of the Mammalian heart, and the significance of this curve in respect to the mechanism of the heart-beat and the filling of the ventricles. Amer. J. Physiol., Boston, Mass., **16**, 1906, (325-367).

Hendrich, Arthur. Vergleichende makroskopische und mikroskopische Untersuchungen über die Samenblasen

und die Anpullen der Samenleiter bei den Haussäugetieren, mit Einschluss von Hirsch und Rehbock. Intern. Monatschr. Anat., Leipzig, **22**, 1905, (360-408, 2 pls.).

Hennicke, [Karl R.]. Ueber die Anpassung des Gehörorgans der Wasser-säugethiere an das Leben im Wasser. Monatschr. Ohrenheilk., Berlin, **36**, 1902, (157-163).

Herpin vide Dieulafé.

Hermann, — Zur Genese des Chorionepithels beim Meerschweinchen. Verh. D. Ges. Gynäk., Leipzig, **11**, (1905), 1906, (428-433).

Herter, C[hristian] A[rehibald]. Character of the bacterial flora of carnivorous and of herbivorous animals. Science, New York, N.Y., **24**, 1906, (859-861).

Herwerden vide Van Herwerden.

Heuer, G. T. The pancreatic ducts in the cat. Johns Hopkins Hosp. Bull., Baltimore, Md., **17**, 1906, (106-111, pls. iii-vi).

Hilber, V. Einen für die prähistorische Verbreitung des Rentiers. Wien, Mitt. Anthr. Ges., **36**, 1906, (163).

Hilzheimer, Max. 1. Die europäischen Hasen. Zool. Anz., Leipzig, **30**, 1906, (510-513).

Hilzheimer, M. 2. *Papio mundaensis*, *Felis deliensis*, *Canis reissii* und andere neue Säugetiere. Zool. Anz., Leipzig, **30**, 1906, (109-118, figg.).

Hilzheimer, M. 3. Eine kleine Sendung chinesischer Säugetiere. Magdeburg, Mus. Nat. Heimatkunde, Abh. u. Bericht, **1**, 1906, (165-184, pls. ii-iv).

Hilzheimer, M. 4. Eine zoologische Entdeckung, die in Europa noch zu machen ist. [Betr. den „Rohrwolf“ in Ungarn.] Kosmos, Stuttgart, **3**, 1906, (179-180).

Hilzheimer, M. 5. Gibt es Hasen-Kaninchenkreuzungen? Wild u. Hund, **12**, 1906, Berlin, (601-602).

Hilzheimer, M. 6. Die geographische Verbreitung der afrikanischen Grauschakale. Zool. Beob., Frankfurt a. M., **47**, 1906, (363-373).

Hilzheimer, M. 7. Das Vogesenrind und das Schlettstadter Pferd. Strassburg, Mitt. Philom. Ges. Elsass-Lothr., **3**, 1906, (368-380, pls. x-xi).

Hine, James S[tewart]. Notes on some Ohio mammals. Ohio Nat., Columbus, Ohio, **6**, 1906, (550-551).

Hinton, M. A. C. *Gazella daviesi*, a new Antelope from the Norwich Crag of Bramerton. London, Proc. Geol. Ass., **19**, 1906, (217-251).

Hirst, A. S. A new species of *Orycteropus*. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (383-384).

Hochstetter, F. Ueber das Vorkommen von Ductus pericardiacoperitoneales (ventrales) bei Kaninchenembryonen. Anat. Anz., Jena, **29**, 1906, (41-49).

[**Hofmann**, A. Säugetierreste von Wies. Wien, Jahrb. Geol. Reichsanst., **55**, 1905, (27-30, pl. xi).]

Hogg, A. J. Miteham gravels and their Mammalian remains. Croydon, Proc. Nat. Hist. Soc., **1905-6**, (133-140).

Holding, R. E. 1. On variation in Mammalian teeth. London, Proc. Zool. Soc., **1906**, (233-234).

Holding, R. E. 2. On the wild Irish Goat, etc. London, Proc. Zool. Soc., **1906**, (574-575).

Hornaday, W. T. Ungulates in the Zoological Park [New York]. New York, N.Y., Rep. Zool. Soc., **10**, 1906, (88-94).

Horusitzky, Henrik. A Tiszából kihalászott diluvialis gerincezesekről. [Über die aus der Tisza gezogenen diluvialen Wirbeltierreste.] Földt. Közl., Budapest, **36**, 1906, (418-423, 471-477).

Hossack, W. C. Preliminary notes on the Rats of Calcutta. J. As. Soc. Beng., ser. 2, **2**, 1906, (183-186).

Hotta, G. Das Auge der anthropoiden Affen. Beiträge zur vergleichenden Anatomie, mit besonderer Berücksichtigung der Irismuskulatur. Graefes Arch. Ophthalm., Leipzig, **62**, 1905, (250-274, 4 Taf.).

Howell, Arthur H. 1. The proper name for the White-backed Skunk of Colombia, the Eastern Skunk, the Striped Muisbond of South Africa, and the generic name *Zorilla*. Washington D.C., Proc. Biol. Soc., **19**, 1906, (45-46).

Howell, A. H. 2. Revision of the Skunks of the genus *Spilogale*. Washington, D.C., U. S. Dept. Agric., Div. Biol. Surv., N. Amer. Fauna, No. **26**, 1906, (1-45, x pls.).

Hrdlička, Alš. Anatomical observations on a collection of Orang skulls from Western Borneo. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **31**, 1906, (539-568, figg.).

Huber, G. C. 1. The arteriolar rectae of the Mammalian kidney. Brit. Med. J., London, **1906**, 2, (1700).

Huber, G. C. 2. On the arteriolar rectae of the Mammalian kidney. Baltimore, Md., Proc. Ass. Amer. Nat., 20th Sess., (xviii).

Hurst, C. C. On the inheritance of coat-colour in Horses. London, Proc. R. Soc., B, **77**, 1906, (383-394).

Iggulden, (Lt.-Col.), H. A. The geographical range of the Shou. Field, London, **108**, 1906, (736).

Ingersoll, E. The Life of Animals: the Mammalia. New York (The Macmillan Co.) and London, 1906, (xi + 555, illustr.).

Inverarity, J. D. Samber horns. Bombay, J. Nat. Hist. Soc., **17**, 1906, (23-26).

[**Ivanov, I. I.**] **Ивановъ, И. И.** Искусственное оплодотворение у млекопитающихъ. [Die künstliche Befruchtung bei Säugethieren] Arch. sc. biol., St. Peterburg, **12**, 1906, (376-509).

Jackson, Sheldon. Fifteenth annual report on introduction of domestic Reindeer into Alaska . . . 1905. Washington, 1906, (174, pl.).

Jenkinson, J. W. Notes on the histology and physiology of the placenta in Ungulata. London, Proc. Zool. Soc., **1906**, (73-96).

Jentink, F[redericus] A[nnà]. 1. On a new squirrel from Stanley Falls. Leiden, Notes Mus. Jentink, **28**, 1906, (139-140).

Jentink, F. A. 2. On a new Antelope, *Cephalophus coxi*, from N.W. Rhodesia. Leiden, Notes Mus. Jentink, **28**, 1906, (117-119).

Jiménez, Dnnie. Sobre la Geologia del Sudeste de España. [On the geology of the south-east of Spain.] Madrid, Bol. soc. esp. hist. nat., **6**, 1906, (103-110).

Johnston, J[ohn] B[lack]. The nervous system of Vertebrates. [With bibliography.] Philadelphia (Blakiston), 1906, (xx + 370, illustr.). 21 cm.

Johnston, Sir H. H. Liberia, London, 1906, 2 vols. illustr.

Joleaud, L. Description des Terrains Néogènes du Comtat et des abords; Mammifères Euthériens et Nectothériens. Avignon, Mém. Acad., sér. 2, **6**, 1906, (363-382).

Jolly, J. 1. Quelques remarques à propos de la forme de la structure et de la fixation des globules rouges des Mammifères. Folia haematologica, Berlin, **3**, 1906, (183-186).

Jolly, J. 2. Sur la phagocytose des noyaux expulsés des hématies des Mammifères. Paris, C.-R. soc. biol., **61**, 1906, (79-82).

Jolly, J. 3. Sur les cellules vasformatives et sur la prétendue formation intracellulaire des globules rouges des Mammifères. Paris, C.-R. soc. biol., **61**, 1906, (146-148).

Jolly, J. 4. Sur l'existence des globules rouges nucléés dans le sang de quelques espèces de Mammifères. Paris, C.-R. soc. biol., **61**, 1906, (393-395).

Jolly, J. 5. Sur la formation des globules rouges des Mammifères. C.-R. ass. anat., 7^e session, (Genève), **1905**, Nancy, 1906, (198-113).

Jolly, J. 6. Sur l'évolution des cellules de la moelle osseuse au cours du développement. Paris, C.-R. soc. biol., **60**, 1906, (634-636).

Jolly, J. vide Weidenreich, Franz.

Kadič, Ottokár. Über die Reste des diluvialen Menschen von Krapina. (Ungarisch) Földr. Közl., Budapest, **37**, 1906, (117-121, 259-279, pl. x).

(**Kampen, P. N. van.** Die Tympanal-egend des Säugetierschädels. Morph. Jahrb., Leipzig, **34**, 1905, (321-722).)

Kapherr, Egon Freiherr von. Eine dem Untergang geweihte Hochwildart. [Elch.] Weidmann, Berlin, **37**, 1906, (641-644, 657-659).

[**Kaščenko, N. I.**] **Кащенко, Н. И.** Обзоръ млекопитающихъ западной Сибири и Туркестана. [A review of the Mammals of Western Siberia and Turkestan.] Pt. I. *Chiroptera* and *Insectivora*. Tomsk, Rec. Tomsk Univ., 1905, (xvi + 102, maps).

Keibel, Franz. Die äussere Körperform und der Entwicklungsgrad der Organe bei Affenembryonen. (= Studien über Entwicklungsgesch. d. Tiere, hrsg. v. E. Selenka, H. 14 = Menschenaffen, hrsg. v. E. Selenka, Lfg 9.) Wiesbaden, 1906, (553-617).

Keibel, F. *vide* Sakurai, Tsunejiro.

Keil, R. Beiträge zur Entwicklungsgeschichte des Auges vom Schwein. Anat. Hefte, Wiesbaden, 1st sect., **32**, 1906, (1).

Kidd, Walter. The papillary ridges and papillary layer of the corium in the Mammalian hand and foot. J. Anat. Physiol., London, **41**, 1906, (35-44, figg.).

Kinnear, Norman B. On the Mammals of Fair Isle, with a description of a new subspecies of *Mus sylvaticus*. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (65-68).

Klein, Sidney. On the nature, etc., of granule cells of Mammals. Amer. J. Anat., Baltimore, Md., **5**, 1906, (315).

Kloss, C. Boden. The new Sumatran Pig. Singapore, J. Straits Asiatic Soc., **45**, 1906, (56-60).

Kösters, [Hub.]. Ueber den Mechanismus des Pferdehufes. Zs. Veterinärk., Berlin, **15**, 1903, (300-319, 337-350).

Kohlmeier, O. Topographie des elastischen Gewebes in der Gaumenschleimhaut der Wanderratte, *Mus decumanus*. Zs. wiss. Zool., Leipzig, **81**, 1906, (145-190).

Kolossoff, G. and Paukul, E. Versuch einer mathematischen Theorie der Hautleistenfiguren der Primaten-Palma und -Planta. Morph. Jahrb., Leipzig, **35**, 1906, (696-708).

Korff, K. von. Ueber die Entwicklung der Zahnbein- und Knochengrundsubstanz der Säugetiere. Anat. Anz., Jena, **29**, Suppl., 1906, (132-136).

Korljević, A. Popis sisera hrvatske fauna. [Observations on the Hungarian fauna.] Glasnik. Naravosl. druzt., Zagreb, **14**, 1902, (1-90, 2 pls.).

Korman, Bodo. 1. Vergleichende histologische Untersuchungen über den Nasenvorhof der Haussäugetiere und über die Nasentrompete des Pferdes. Anat. Anz., Jena, **28**, 1906, (5-16).

Kormann, B. 2. Ueber die Modifikationen der Haut und die subkutanen Drüsen in der Umgebung der Mund- und der Nasenöffnungen, die Formationes parorales und paranasales der Haussäugetiere. Anat. Anz., Jena, **28**, 1906, (113-137).

Kowatscheff, W. T. 1. Der Nordbulgarische *Spalax*. Wien, Verh. zool.-bot. Ges., **1906**, (601, fig.).

Kowatscheff, W. T. 2. Bercoo bozaynata fauna na Bulgaria. [On the mammal fauna of Bulgaria.] Rustshuk, Godishik Russ. derz. muzheaghinnazia "Knyaz Boris," 1905-6, (1-16).

Kraemer, [Hermann]. 1. Die Knochenstärke der Pferde. [III-V.] D. landw. Tierzucht, Leipzig, **10**, 1906, (5-9, 17-21, 30-33).

Kraemer, H. 2. Zur ältesten Geschichte der Pferde. Jahrb. wiss. Tierzucht, Leipzig, **1**, 1906, (37-62).

Kravetz, L. P. Entwicklungsgeschichte des Sternum und des Episternalapparats der Säugetiere. Moskva, Bull. Soc. Nat., ser. 2, **49**, 1906, (1-59).

Kreidl, Alois *vide* Alexander, Gustav.

Kükenthal, W[ilhelm]. Beiträge zur Anatomie eines weiblichen Gorilla. Jenaische Zs. Natw., Jena, **41**, 1906, (607-654, Taf.).

Künstler, J. Modifications anatomiques du Lièvre des marais de la Seugne. C.-R. Ass. anat., 7^e session, (Genève), **1905**, Nancy, 1906, (126).

Künstler, J. et Chaîne, J. 1. Variations de formules dentaires chez les Primates. Paris, C.-R. soc. biol., **60**, 1906, (99-101); Réunion biologique de Bordeaux, **1906**, (3-5).

Künstler, J. et Chaîne, J. 2. Anomalie dentaire du Chien. Bordeaux, Pr.-verb. soc. sci. phys. nat., **1906**, (26-27).

Künstler, J. et Chaîne, J. 3. Le Chat sauvage de Madagascar. Bordeaux, Pr.-verb. soc. sci. phys. nat., **1906**, (27-28).

Künstler, J. et Chaîne, J. 4. L'*Urra* et ses mœurs. Bordeaux, Pr.-verb. soc. sci. phys. nat., **1906**, (37).

Künstler, J. et Chaîne, J. 5. Remarques sur l'Hermine. Naturaliste, Paris, sér. 2, **28**, 1906, (129).

Küsthardt, G. Vom Okapi. Globus, Braunschweig, **89**, 1906, (108-110).

Kuhn, Gustav. Ein Beitrag zur Kenntnis vom feineren Bau des Eileiters der Haussäugetiere. Diss. Giessen, Berlin, 1906, (33, pls.).

Kukuljević, József. Mikrochelia vagy Brachyhelia. [Mikrochelié oder Brachyhelie beim Pferde.] Állatorv. L., Budapest, **29**, 1906, (353-355, Figg.).

Kunsemüller, Martin. Die Eifurchung des Igels (*Erinaceus europaeus* L.). Zs. Wiss. Zool., Leipzig, **85**, 1906, (74-106, pls. vi, vii).

Kupffer, — von. Morphogenie des Centralnervensystems der Säugetiere. [In] O. Hertwig "Handbuch vergleich. experiment. Entwicklungslehre Wirbelt." Jena, ii.

Lafite-Dupont et Benoit-Gonin. Influence de la station bipède et du développement du cerveau sur la topographie de l'oreille de l'Homme comparée à celle des Mammifères. Bordeaux, Proc.-verb. Soc. linn., **60**, 1906, (cv-cxi, pl.).

Lahille, F. El nombre científico de las Vizcachas. [The scientific name of the Vizcachas.] Buenos Aires, An. Soc. Cient. Argent., **62**, 1906, (39-47).

Lampert, Kurt. Das Tierreich: I. Säugetiere. Leipzig, 1906, (184). 16 cm. 0:50 M.

Langendorff. Die Bewegungen des überlebenden Säugetierherzens unter Einwirkung verschiedener Mittel. Anat. Anz., Jena, **29**, Suppl., 1906, (290).

Lantz, D[avid] E[rnest]. Meadow Mice in relation to agriculture and horticulture. Washington, D.C., Yearbook U. S. Dept. Agric., **1905**, 1906, (363-376, pl.).

Lauterborn, R. Faunistische und biologische Notizen. Dürkheim, Mitt. Pollichia, **60**, 1906, (63-130).

Lecco, Thomas M. Das Ganglion ciliare einiger Carnivoren. Ein Beitrag zur Lösung der Frage über die Natur des Ganglion ciliare. Jenaische Zs. Natw., **41**, 1906, (483-504).

Leche, W. Die Chorda dorsalis im Schädel erwachsener Säugetiere. Anat. Anz., Jena, **28**, 1906, (235-237).

Ledingham, J. C. G. On the vacuolated mononuclear cells in the blood of the Guinea-pig. Lancet, London, **1906**, **1**, (1675-1676, figg.).

[**Lehman, Harriet.** On the embryonic history of the aortic arches of Mammals. Zool. Jahrb., Jena, Abt. f. Anat., **22**, 1905, (387-434, p's. xxii-xxv).]

Leisewitz, W. Ein Steinbock aus dem zentralen Thian Shan. Zool. Anz., Leipzig, **29**, 1906, (654-656).

Lemoine, Paul. Études géologiques dans le Nord de Madagascar. Ann. Hébert, Paris, **3**, 1906, (1-320, 4 pls.).

Lesbre, F. X. 1. Étude sur le phénomène de la descente des testicules. Lyon, Ann. soc. agricult., sér. 8, **1**, 1904, (1-30, figg.).

(**Lesbre, F. X. 2.** Recherches anatomiques sur les Camélidés. Arch. Muséum hist. nat., Lyon, **8**, 1903, 1^{er} Mémoire, (195, fig.).)

Lesbre, F. X. et Forgeot, E. H. 1. Étude anatomique de deux Veaux achondroplases, suivie de considérations générales sur l'achondroplasie. Lyon, 1905, (39, figg.).

Lesbre et Forgeot. 2. Étude anatomique de deux Agneaux hypotognathes. (Interprétation de l'hypotognathie.) C.-R. ass. anat., 8^e session, (102-113, fig.).

[**Leshaft, P.**] Лешафтъ, П. Изучение суставовъ и мышцъ въ настоящее время. [Das Studium der Gelenke und Muskeln in gegenwärtiger Zeit. Schluss.] St. Petersburg, Bull. labor. biol., **8**, 1906, (68-106).

Letacq, A. L. Sur les Mammifères, etc., disparus ou en voie de disparition de la fauna de l'Orne. Caen, Bul. soc. linn., **5**, 1906, (52-73).

[**Levčuk, V.**] Левчукъ, В. Замѣтки изъ поездки на островъ Челекенъ въ 1902 г. [Notizen von einer Reise auf die Insel Čeleken i J. 1902.] Mater. faun. flor. Ross., Moskva. Zool., **7**, 1906, (302-324).

Levi, Giuseppe. Studi sulla grandezza delle cellule. I. Ricerche comparative sulla grandezza delle cellule dei Mammiferi. Archivio ital. Anat. Embriol., Firenze, **5**, 1906, (291-358, figg.).

Lewin, Leo. I. Das Vorkommen von Persistenz der Arteria stapedia beim Menschen und die vergleichend-anatomische und phylogenetische Bedeutung dieses Phänomens. II. Eigentümliche Excrezenzen am Trommelfelle und Follikelbildung in der Paukenschleimhaut. Arch. Ohrenheilk., Leipzig, **70**, 1906, (28-41).

Lewis, F. T. The 5th and 6th aortic arches and the related pharyngeal pouches in the Rabbit and the Pig. Anat. Anz., Jena, **28**, 1906, (506-513, fig.).

Liebl, [Sebastian]. Zwei Fälle von Vielträchtigkeit beim Rind. D. landw. Tierzucht, München, **1**, 1906, (244).

Livon, Ch. Note sur les cellules glandulaires de l'hypophyse du cheval. Paris, C.-R. soc. biol., **60**, 1906, (1159-1161); et Réunion biol. Marseille, **1906**, (45-47).

Lobenhoffer, Wilh. Ueber die Ergebnisse der Altmann-Schriddeschen Färbemethode beim Zentralnervensystem. Arch. mikr. Anat., Bonn, **68**, 1906, (491-500, I pl.).

Loder, Sir Edmund G. Note on the Cavies of the genus *Dolichotis* and on living specimens of *D. salinicola*. London, Proc. Zool. Soc., **1906**, (96-97, pl. iv).

Loeb, Leo. Ueber die Entwicklung des Corpus luteum beim Meerschweinchen. Anat. Anz., Jena, **28**, 1906, (102-106).

Lönnberg, Einar. 1. On a new *Orycteropus* from Northern Congo, and remarks on the dentition of the *Tubulidentata*. Ark. Zool., Stockholm, **3**, art. 3, 1906, (1-35).

Lönnberg, E. 2. Contributions to the fauna of South Georgia. i. Taxonomie and biological notes on Vertebrates. Stockholm, Vet. Ak. Handl., **40**, No. 5, 1906, (1-104, 12 pls.).

Lönnberg, E. 3. Which is the Taxonomic position of the Irish Giant Deer and allied races? Ark. Zool., Stockholm, **3**, No. 11, 1906, (1-8).

Lönnberg, E. 4. On the geographical races of the Red Deer in Scandinavia. Ark. Zool., Stockholm, **3**, No. 9, 1906, (1-19).

Lönnberg, E. 5. Notes on the geographical distribution of the Okapi.

London, Proc. Zool. Soc., **1905**, 2, 1906, (309-310).

Löns, Hermann. 1. Der Maulwurf als Tagtier. Zool. Beob., Frankfurt a. M., **47**, 1906, (336-337).

Löns, H. 2. Die Wildkatze in Nordwestdeutschland. Sanct Hubertus, Cöthen, **24**, 1906, (471-472).

Löns, H. 3. Die Wirbeltiere Hannover. Hannover, Jahresber. nat. hist. Ges., **50-54**, 1905, (247-264).

Lörenthey, Imre. Budapesti Pannoniái- és Levantei-Korú Rétegei es ezek Faunája. [Prepliocene and Lower Pliocene formations of Budapest and their fauna.] Math. Term. Ért., Budapest, **24**, 1906, (298-342).

Loghem, I. J. van. Over het Colon en Mesocolon der Primaten. [Ueber das Colon und Mesocolon der Primaten.] Haarlem, 1903, (111).]

Loisel, Gustave. 1. Recherches sur l'hérédité des caractères du pelage chez les Lapins. Paris, C.-R. soc. biol., **60**, 1906, (258-259).

Loisel, G. 2. La fasciculation des spermies dans le testicule. Paris, Bul. ass. franç. avanc. sci., **1905**, (335).

Loisel, G. 3. Relations entre les phénomènes du rut, de la lactation, de la mue et de l'amour maternel chez une Chienne hybride. Paris, C.-R. soc. biol., **60**, 1906, (255-258).

Lombard-Dumas, A. 1. Confusion par les auteurs modernes des noms d'Aurochs et de Bison. Nîmes, Bul. soc. étud. sci. nat., **33**, 1906, (65-68).

Lombard-Dumas, A. 2. Note sur la découverte de débris fossiles provenant d'un très grand Éléphant sur le territoire de Saint-Déséry, canton de Saint-Chaptes (Gard). Nîmes, Bul. soc. étud. sci. nat., **33**, 1906, (69-74).

Loomis, F. B. Wasatch and Wind River *Primates*. Amer. J. Sci., New Haven, Conn., ser. 4, **21**, (277-284).

Lorenz von Liburnau, Ludwig. 1. *Gazella salmi* n. sp. Wien, Sitz. Ber. Ak. Wiss., **105**, 1906, No. 18, (1-5).

Lorenz von Liburnau, L. 2. Über zwei neue Schakale aus Nordostafrika aus der Sammlung des Freiherrn C. von Erlanger. Wien, Sitz. Ber. Ak. Wiss., **105**, No. 18, 1906, (122).

Lorenz von Liburnau, L. 3. Zur Kenntniss der Steinböcke Innerasiens. Wien, Denkschr. Ak. Wiss., **80**, 1906, (83-105, pls. i, ii).

Lorenzen, A. Der grönländische Lemming (*Myodes torquatus* Pallas). Prometheus, Berlin, **17**, 1906, (456-458).

Low, A. P. The Cruise of the Neptune. Ottawa, 1906, (xvii + 353, illustr.).

Lubosch, Wilhelm. 1. Über Variationen am Tuberculum articulare des Kiefergelenks des Menschen und ihre morphologische Bedeutung. Morph. Jahrb., Leipzig, **35**, 1906, (322-353).

Lubosch, W. 2. Ueber das Kiefergelenk der Monotremen. (Zweite Folge einer Reihe von Untersuchungen über die vergleichende Anatomie der Gelenke.) Jenaische Zs. Natw., **41**, 1906, (549-606, 4 Taf.).

Lucas, D. R. Studies of the peristalsis of the ureter of Dogs. Amer. J. Physiol., Boston, Mass., **17**, 1906, (392-407).

Lucas, F[rederic]A[ugustus]. 1. Palaeontology of the Pleistocene deposits of Maryland. Mammalia. Maryland Geol. Surv., Baltimore, 1906, (157-169, pls. xxxv-xl).

Lucas, F. A. 2. The Elephants of the Pleistocene. Maryland Geol. Surv., Pliocene and Pleistocene, Baltimore, 1906, (149-152, pl.).

Lucifero, Armando. Mammalia Calabria (continuazione). Riv. ital. sc. nat., Siena, **26**, 1906, (53-56, 82-92, 127-134).

Lugaro, E. Ricerche sulla colorabilità primaria del tessuto nervoso. Archivio ital. Anat. Embriol., Firenze, **5**, 1906, (1-99, 4 pls.).

Lull, R. S. Volant adaptations in Vertebrates. Amer. Nat., Boston, Mass., **40**, 1906, (537-566).

Lund, Juel. Renen som skadedyr. [Reindeer harmful to forests.] Norsk Landm., Kristiania, **25**, 1906, (247-248).

Lunghetti, B. Sopra alcuni casi di "Ossiculum intermetatarsale dorsale" del Gruber. Anat. Anz., Jena, **28**, 1906, (479-492, figg.).

Luzzatto, A. M. Sulla colorazione a fresco della cellula nervosa. Archivio sc. med., Torino, **27**, 1903, (205-214).

[Lydekker, R.] 1. The Ibex of Central Asia. Ind. Field, Calcutta, **32**, 1906, (564).

Lydekker, R. 2. Hares and Rabbits. Country-Side., London, May, 1906, (358).

Lydekker, R. 3. The Albert Nyanza Elephant. Field, London, **107**, 1906, (1089).

Lydekker, R. 4. Four-horned Piebald Sheep. Field, London, **108**, 1906, (3).

Lydekker, R. 5. The production of pigment. Field, London, **108**, 1906, (138).

Lydekker, R. 6. The Pigmy Antelope of the Semliki Forest. Field, London, **108**, 1906, (510).

Lydekker, R. 7. The affinities of the Irish Elk. Field, London, **108**, 1906, (540).

Lydekker, R. 8. A remarkable Eland. Field, London, **108**, 1906, (579, 609).

Lydekker, R. 9. A new Sudanese Antelope. Field, London, **108**, 1906, (693).

Lydekker, R. 10. A live Takin. Field, London, **108**, 1906, (651).

Lydekker, R. 11. The habitat of the Shou. Field, London, **108**, 1906, (651).

Lydekker, R. 12. The range of the Redbuck. Field, London, **108**, 1906, (778).

Lydekker, R. 13. Variation in the horns of Markhor. Field, London, **108**, 1906, (778).

Lydekker, R. 14. Colour-evolution in Guerezu Monkeys. London, Proc. Zool. Soc., **1905**, **2**, 1906, (325-328).

Lydekker, R. 15. The White-maned Serow. London, Proc. Zool. Soc., **1905**, **2**, 1906, (329-331, pl. viii).

Lydekker, R. 16. On a Central African Ratel and Water-Chevrotain. London, Proc. Zool. Soc., **1906**, (112-113, pl. vii).

Lydekker, R. 17. Descriptions of two Mammals from the Ituri Forest [with a supplementary note on the Buffalo of the Semliki district]. London, Proc. Zool. Soc., **1906**, (992-996, pl. lxx).

- Lydekker, R. 18.** On the occurrence of the Bruang in the Tibetan province. London, Proc. Zool. Soc., **1906**, (997-999, fig.).
- Lydekker, R. vide** British Museum and Ward, Rowland.
- Lyell, D. D. vide** Stigand, C. H.
- Lyon, Goffrey A.** Alimentary parasites of *Felis domestica*. Science, New York, N.Y., **24**, 1906, (313-314).
- Lyon, Marcus W. 1.** The Pigmy Squirrels of the *Nannosciurus melanotis* group. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (51-56).
- Lyon, M. W. 2.** Type of the genus *Pronolagus*. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (95).
- Lyon, M. W. 3.** Type of the genus *Atherurus*, Brush-tailed Porcupines. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (199).
- Lyon, M. W. 4.** Notes on the Slow Lemurs. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **31**, 1906, (527-538, pl. xii).
- Lyon, M. W. 5.** Description of a new species of Great Anteater from Central America. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc. **31**, 1906, (567-571, pl. xiv).
- Lyon, M. W. 6.** Mammals of Banka, Mendanau, and Billiton Islands, between Sumatra and Borneo. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **31**, 1906, (575-612).
- Lyon, M. W. 7.** Mammal remains from two Prehistoric village sites in New Mexico and Arizona. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **31**, 1906, (647-649).
- Lyon, M. W. 8.** A peculiar mutation of the Pine-Marten. Science, New York, N.Y., **24**, 1906, (341-342).
- Lyon, M. W. 9.** Note on the type specimen of the Bat *Micronycteris microtis* Miller. Ann. Mag. Nat. Hist., London, ser. 7, **18**, 1906, (371-373).
- Maclaud, C.** Les Mammifères et les Oiseaux de l'Afrique Occidentale. Paris, 1906, (xiv + 352, pls.).
- McClure, C. F. W. 1.** A contribution to the anatomy and development of the venous system of *Didelphys marsupialis* (L.); pt 2. Development. Amer. J. Anat., Baltimore, Md., **5**, 1906, (163-226, 5 pls.).
- McClure, C. F. W. 2.** The postcava of an adult Indian Chevrotain (*Tragulus meminna*, Erxleben). Anat. Anz., Jena, **29**, 1906, (375-377, figg.).
- (Maggi, Leopoldo. 1.** Novità craniali equine. Milano, Rend. Ist. lomb. ser. 2, **37**, 1904, (792-801, 4 figg.).)
- (Maggi, L. 2.** Prefrontali nei Mammiferi, l'uomo compreso. Milano, Rend. Ist. lomb., ser. 2, **37**, 1904, (826-838, 1 tav.).)
- Makowsky, A[lexander].** Eine Sammlung fossiler Thierreste aus der Schwedentischgrotte bei Ochos. Brünn, Verh. Natf. Ver., **44**, (1905), 1906, (37-40).
- Mandoul, H.** Sur la coloration du "tapis" des Mammifères. Paris, C.-R. Soc. biol., **60**, 1906, (522-523).
- Manno, Andrea.** Arteriae plantares pedis Mammalium. Intern. Monatschr. Anat., Leipzig, **22**, 1905, (293-359, 2 pls.).
- Manouvrier.** Rapt de progéniture entre femelles du Rat blanc. Bul. Inst. psych. internat., Paris, **5**, 1905, (165-169). [Discussion: MM. Delage, Giard].
- Mansion, Arthur. 1.** Les Loirs. Rev. sci., Paris, sér. 5, **6**, 1906, (203-207).
- (Mansion, A. 2.** Les Soricidés. Rev. sci., Paris, sér. 5, **1**, 1904, (169-173).)
- Marchal, C.** Le cri du Blaireau. Feuille jeunes natural., Paris, ser. 4, **35**, 1905, (72).
- Marchesini, R.** Contributo allo studio della secrezione delle glandole salivari. Roma, Bol. Soc. zool. ital., ser. 2, **6**, 1906, (57-64, 1 pl.).
- Marjulies, A. vide** Dexler, H.
- Marrassini, A.** Sopra la minuta struttura dei vari elementi delle capsule soprarrenali e sul loro probabile valore funzionale. Mon. zool. ital., Firenze, **17**, 1906, (42-60).
- Martin, Ferdinand Paul.** Vergleichend - histologische Untersuchungen über den Bau der Darmwand der Haussäugetiere. Mitt. 1: Ueber Gestalt, Lage und Länge der Darmeigen- drüsen und der Zotten, sowie die Membrana propria. Arch. Thierheilk., Berlin, **32**, 1906, (197-336).

Martin, Rudolf. Revision der ober-eocänen und unteroligocänen Creodonten Europas. *Rev. Suisse Zool.*, Genève, **14**, 1906, (405–600, pls. xvi–xix).

Martinotti, Carlo. Contributo allo studio dell'apparato reticolare nei muscoli striati di alcuni Mammiferi. *Torino, Giorn. Acc. med.*, **67**, 1904, (48–52).

Mathis, C. Sensibilité des Ecureuils au nagana expérimental. *Paris, C.-R. soc. biol.*, **61**, 1906, (273–274).

Matschie, Paul. 1. Die zwölfte deutsche Geweihausstellung zu Berlin, 1906. *Weidwerk in Wort und Bild.* Berlin, 1906, (177–242).

Matschie, P. 2. Le Sanglier Noir de l'Ituri, *Hylochoerus ituriensis*. Études de la Faune Mammalogique du Congo (Ann. Mus. Congo, Brussels, — Zool. Ser. 5), **1**, art. 1, 1906 (19, 5 pls.).

Matschie, P. 3. Verbreitung der Säugetiere. [In] *Der Mensch und die Erde*, hrsg. v. H. Kraemer. Bd 1. Berlin, 1906, (79–164, pl.).

Matschie, P. 4. Das Beobachten und Sammeln von Säugetieren. [In] G. von Neumayer's „Anleitung zu wissenschaftlichen Beobachtungen auf Reisen“. Hannover, 1906, (489–512).

Matschie, P. 5. Einige noch nicht beschriebene Arten des afrikanischen Büffels. *Berlin, SitzBer. Ges. natf. Freunde*, **1906**, (161–179, figg.).

Matschie, P. 6. Eine Robbe von Laysan. *Berlin, SitzBer. Ges. natf. Freunde*, **1906**, (254–262).

Matschie, P. 7. Eine anscheinend neue Meerkatze. *Berlin, SitzBer. Ges. natf. Freunde*, **1906**, (262–276).

Matschie, P. 8. *Otolemur badius*, eine neue Art africanischer Halbaffen. *Berlin, SitzBer. Ges. natf. Freunde*, **1906**, (277–279).

Matschie, P. 9. Merkwürdige Gorilla-Schädel aus Kamerun. *Berlin, SitzBer. Ges. natf. Freunde*, **1906**, (279–283).

Matthew, W. Diller. 1. The osteology of *Sinopa*, a Creodont Mammal of the Middle Eocene. Washington, D.C., Smithsonian Inst., *Nation, Mus. Proc.*, **30**, 1906, (203–233).

Matthew, W. D. 2. Fossil *Chrysochloridae* in North America. *Science*, New York, N.Y., **24**, 1906, (786–788).

Matthew, W. D. and Gidley, J. W. New or little-known Mammals from the Miocene of South Dakota. New York, N.Y., *Bull. Amer. Mus. Nat. Hist.*, **22**, 1906, (135–153).

Mau. Kreuzung zwischen Wild- und Hausschwein. *Wild u. Hund*, Berlin, **12**, 1906, (391).

Mead, C. S. Adaptive modifications of occipital condyles in Mammalia. *Amer. Nat.*, Boston, Mass., **40**, 1906, (475–483).

Maurel. Rapport du poids de la rate au poids total et à la surface totale de l'animal. *Toulouse, Bul. Soc. hist. nat.* **36**, 1903, (23–28).

Mazzocchi, Vittorio. Sui processi rigenerativi nelle ghiandole sottomascolari del Coniglio imestate. *Archivio sc. med.*, Torino, **28**, 1904, (437–447, 1 pl.).

Meek, A. 1. On the post-embryonal history of voluntary muscles in Mammals. *Newcastle, Proc. Univ. Durham, Phil. Soc.*, **1**, 1906, (169–174).

Meek, A. 2. On post-embryonal development approached from a statistical study of the incisor teeth of the Horse. *Newcastle, Proc. Univ. Durham Phil. Soc.*, **1**, 1906, (45–48).

Meek, Walter J. A study of the choroid plexus. (Abstract.) *Des Moines, Proc. Iowa Acad. Sci.*, **13**, 1906, (245–249).

[**Ménégaux, A.** 1. Sur la présence de l'Okapi au Bahr-el-Gazal. *Bul. Muséum, Paris*, **1905**, (381–383).]

Ménégaux, A. 2. L'Okapi. *Paris, Rev. des Idées*, **2**, 1905, (831–838, 970–972, av. fig.).

[**Ménégaux, A.** 3. Sur la présence de *Paradoxurus larvatus* et de *Felis temminckii* au Tonkin. *Bul. Muséum, Paris*, **1905**, (384).]

Merriam, J. C. 1. On the occurrence of *Desmotylus*, Marsh. *Science*, New York, N.Y., **24**, 1906, (151–152).

Merriam, J. C. 2. Recent discoveries of Quaternary Mammals in Southern California. *Science*, New York, N.Y., **24**, 1906, (248–250).

Merriam, J. C. 3. Carnivora from the Tertiary formation of the John Day Region. Berkeley, Univ. Cal. Bull. Dept. Geol., **5**, 1906, (1-61, figg.).

Mertens, A. 1. Ein Schädelfragment von *Bos primigenius* mit Stirnhaaren aus Flusskiesen der Magdeburger Gegend. Berlin, Zs. geol. Ges., **57**, 1905, Monatsberichte (119-422).

Mertens, A. 2. Der Ur, *Bos primigenius*, Bojanus. Magdeburg, Abh. Mus. Nak., **1**, 1906, (45-119, Figg.).

Metchnikoff, Elie. Recherches sur le blanchissement hivernal des poils et des plumes. Paris, C.-R. Acad. sci., **142**, 1906, (1024-1028).

Meyer, A. W. An experimental study on the recurrence of lymphatic glands and the regeneration of lymphatics in the Dog. Johns Hopkins Hosp., Bull., Baltimore, Md., **17**, 1906, (185-192).

Meyer, W. Die Säuger Neu-Pommerns. Natur u. Offenb. Münster, **52**, 1906, (65-71).

Micq, M. Stations préhistoriques de Kleinkems (Grand-duché de Bade). Nancy, Bul. soc. sci., sér. 3, **5**, 1904, (14-23, fig.).

Micq, M. et Stehlin, H. J. Sur l'âge et la faune de la station préhistorique d'Istein (Grand-duché de Bade). Nancy, Bul. soc. sci., sér. 3, **4**, 1903, (1-19).

Millais, J. G. The Mammals of Great Britain and Ireland. iii, London, 1906, (xii + 384, illustr.).

Miller, Gerrit S. 1. Some Voles from the Tian Shan region. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (371-374).

[**Miller, G. S. 2.** A new Bat from German East Africa. Washington, D.C., Proc. Biol. Soc., **18**, 1905, (227-228).]

[**Miller, G. S. 3.** A new genus of Bats from Sumatra. Washington, D.C., Proc. Biol. Soc., **18**, 1905, (229-230).]

Miller, G. S. 4. Two new Carnivores from the Malay Peninsula. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (25-28).

Miller, G. S. 5. A new name for *Rhinolophus minutus*. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (11).

Miller, G. S. 6. The nomenclature of the Flying-Lemurs. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (41).

Miller, G. S. 7. A new genus of Sac-winged Bats. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (59-60).

Miller, G. S. 8. Seven new Malayan Bats. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (61-66).

Miller, G. S. 9. Twelve new genera of Bats. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (83-86).

Miller, G. S. 10. The Monkeys of the *Macaca nemestrina* group. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **29**, 1906, (555-563, pls. xiii-xx).

Miller, G. S. 11. Notes on Malayan Pigs. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **30**, 1906, (737-758, pls. xxxix-lxiv).

Miller, G. S. 12. The Mammals of Eugano Island, West Sumatra. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **30**, 1906, (819-825).

Miller, G. S. 13. Mammals collected by Dr. W. L. Abbott in the Karimata Islands, Dutch East Indies. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **31**, 1906, (55-66).

Miller, G. S. 14. The Mammals collected by Dr. W. L. Abbott in the Rhio-Linga Archipelago. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **31**, 1906, (247-286).

Miller, G. S., jun. 15. A Bat new to the United States. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (96).

Mingaud, Galien. 1. Le Castor du Rhône et ses parasites. Nîmes, Bul. Soc. étud. sci. nat., **33**, 1906, (74-77); Nature, Paris, **33**, 1905, (118-119).

Mingaud, G. 2. Sur un fœtus à terme de Castor. Nîmes, Bul. soc. étud. sci. nat., **33**, 1906, (83-84, fig.); (Paris, Bul. soc. zool., **30**, 1907, (112-113).)

Mingaud, G. vide etiam Galien-Mingaud.

Minot, C. S. and Taylor, E. Normal Plates of the Development of the Rabbit (*Lepus cuniculus*). Normen tafeln zur Entwicklungsgeschichte der Wirbeltiere. Jena, No. 5, 1905.

Mitchell, P. Chalmers. On Anthropoid Apes. London, Proc. R. Inst., **17**, 1906, (533-535).

Möbius, K. Die Säugetiere ästhetisch betrachtet. Zool. Beob., Frankfurt a. M., **47**, 1906, (161-172, 193-201).

(**Mollison**, Th. Die Rückendrüse von *Dendrohyrax teretica*. Morph. Jahrb., Leipzig, **34**, 1905, (240-245, mit 1 Taf.).)

Molz, E[mil]. Die Schermaus als Rebenfeind. Mitt. Weinbau, Geisenheim, **18**, 1906, (47-50).

Monaco, Prince of. Progress of Marine Biology. London, Proc. R. Inst., **17**, 1906, (547-551, figg.).

Monticelli, Fr. Sav. Per la storia di un Cetaceo arenato sulle coste d'Ischia nel 1770. Napoli, Annuario Museo zool., ser. 2, **2**, No. 13, 1906, (1-4).

Moore, J. E. S. and **Walker**, C. E. The maiotic process in Mammalia. Liverpool. Thompson-Yates Lab. Rep., **7**, 1906, (75-88, 7 pls.).

Morat, J[ean] P[ierre]. Physiology of the Nervous System. English ed., by H. W. Syers. Chicago, 1906, (xxviii + 680, illustr.).

Moreau, L. J. **1**. Un Ecureuil de l'est africain, le *Xerus rutilus*. Paris, Bul. Soc. zool., **27**, 1902, (221-222, fig.).

Moreau, L. J. **2**. Note sur le Daman d'Abyssinie. Paris, Bul. Soc. zool., **27**, 1902, (212-215, figg.).

Morel, Ch. et **Soulié**, A. Sur la présence d'éléments du tissu myéloïde dans la rate des Insectivores. C.-R. Ass. anat., 6^e session, (Toulouse), Nancy, **1904**, (86-89).

Morgera, A. **1**. Sullo sviluppo dei tubuli retti e della rete testis nella *Cavia cobaya*. Napoli, Boll. Soc. nat., **19**, 1906, (132-134).

Morgera, A. **2**. Sulla struttura intima degli organi annessi ad testicolo del Topo e della Cavia. Napoli, Boll. Soc. nat., **19**, 1906, (135-141).

Mori, M. Studien über Knorpel-regeneration, nach experimentellen Untersuchungen am Kaninchenohr. D. Zs. Chir., Leipzig, **76**, 1905, (220-234, 1 pl.).

Moseley, E[dwin] L[incoln]. Notes on the former occurrence of certain Mammals in northern Ohio. Ohio Nat., Columbus, Ohio, **6**, 1906, (504-505).

Mosso, A. Contributo alla fisiologia dei muscoli lisci. Roma, Mem. Ac. Lincei, ser. 5, **6**, 1906, art. 1, (1-26).

Müller, Adolf. Aufklärung über Irrtümer im Wesen und Wandel einheimischer Tiercharaktere. [Fuchs, Dachs, Hermelin.] Weidmann, Berlin, **37**, 1906, (561-564, 577-580, 593-594).

Müller, Josef. Zur vergleichenden Histologie der Lungen unserer Haus-säugetiere. Arch. mikr. Anat., Bonn, **69**, 1906, (1-62, pl. i).

Muller, F[rederik]. On the placentation of *Sciurus vulgaris*. Amsterdam, Proc. Sci. Akad. Wet., **9**, 1906, (380-389).

Mulon, P. Sur les cellules à corps sidérophiles de la capsule surrénale chez le Cobaye. C.-R. Ass. anat., 7^e session, (Genève), **1905**, Nancy, 1906, (18-21, fig.).

[**Munthe**, H. Om ett fynd of kvartär myskoxe vid No. 1, N.N.O. om Göteborg. [Discovery of Musk-ox bones in Quaternary of Göteborg.] Stockholm, Geol. För. Förh., **27**, 1905, (173-189, figg.).]

Nathusius, Simon von. **1**. Atlas der Rassen und Formen unserer Haustiere. Serie 4. Verschiedenheiten der Formen, verursacht durch Variabilität, Gebrauchszweck, Aufzucht, Alter, Geschlecht u. s. w. Stuttgart (E. Ulmer), 1906, (27, 35 pls.). 22 × 27 cm. In Mappe 6,50 M.

Nathusius, S. von. **2**. Einiges über Fohlengewichte. D. Pferdezucht, Stuttgart, **2**, 1906, (227-230, 243-246, 257-260).

Neumann, Oscar. Ueber einige Gazellen und Kuh-Antilopen. Berlin, SitzBer. Ges. natf. Freunde, **1906**, (237-247, 1 Taf.).

Neumayer, L. Ueber das Gehirn von *Adapis parisiensis*, Cuv. Stuttgart, N. Jahrb. Min., **1906**, **2**, (100-104, pl. v).

Neuville, H. vide Rothschild, Baron Maurice de.

Neveu Lemaire. Sur un Cobaye monstrueux syncéphalien. Paris, Bul. Soc. Zool., **31**, 1906, (68-71, figg.).

Neveu Lemaire vide Grandidier, G.

Nicola, Beniamino. Sulla muscolatura liscia del capezzolo e dell' areola mammaria nell' uomo ed in altri Mam-

miferi. Nota prelimin. Torino, Giorn. Acc. med., **66**, 1903, (793-798).

Nicolle, C. et Comte, C. Du sens de l'orientation chez une espèce de Chauve-Souris (*Vespertilio kühli*). Paris, C.-R. soc. biol., **60**, 1906, (738-739).

Niedeck, P. Mit der Büchse in fünf Weltteilen. Berlin, 1905, (vii + 427, illustr.).

Noack, T. Eine Zwergform des afrikanischen Elefanten. Zool. Anz., Leipzig, **29**, 1906, (631-633).

Nordang, P[eder] B[ritannus]. Vestlandshesten, dens Fortid og Fremtid. [Das westnorwegische Pferd, seine Vorzeit und seine Zukunft.] Kristiania, Tidssk. norsk Landb., **13**, 1906, (482-503, 563-564).

[**Nordmann, V.** Danmarks Pattedyr i Fortiden. [Fossil Mammals of Denmark.] Kjöbenhavn, Danm. Geol. Unders., **3**, 1905, No. 5, (1-133).]

Norris, H[arry] W[aldo]. The carotid arteries and their relation to the circle of Willis in the Cat. Des Moines, Proc. Iowa Acad. Sci., **13**, 1906, (251-255).

Nussbaum, H. Chr. Ist das Eichhörnchen ein Nesträuber? Wild u. Hund, Berlin, **12**, 1906, (110).

Oliver, F. W. Notice of a new Miocene Rhinoceros, *Diceratherium arikareense*. Science, New York, N.Y., **24**, 1906, (780-781, figg.).

Olivier, E. 1. Le Mammouth gelé de la Sibérie. Rev. Sci. Bourbon., Moulins, **1906**, (64-68); Nat. Canad., Quebec, **33**, 1906, (179-184).

Olivier, E. 2. Déformation pathologique d'un pied de Sanglier. Paris, Bul. soc. zool., **29**, 1904, (148-150, fig.).

Oppel, Albert. 1. Verdauungsapparat. Anat. Hefte, Wiesbaden, 2nd sect., **15**, 1906, (207).

Oppel, A. 2. Atmungsapparat. Anat. Hefte, Wiesbaden, 2nd sect., **15**, 1906, (289).

Osborn, H. F. 1. Recent Vertebrate Palaeontology: Extinct Mammals of Patagonia. Science, New York, ser. 2, **24**, 1906, (55-57).

Osborn, H. F. 2. Mountain Goat hunting with the camera, with observations on other Mammals of southern British Columbia. New York, N.Y.,

Rep. Zool. Soc., **10**, 1906, (217-233, figg.).

Osborn, H. F. 3. The causes of extinction of *Mammalia*. Amer. Nat., Boston, Mass., **40**, 1906, (767-795, 829-859).

Osborn, H. F. 4. Milk-dentition of the Hyracoid *Saghattherium* from the upper Eocene of Egypt. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, 1906, (263-266, fig.).

Osburn, Raymond C[arroll]. Adaptive modifications of the limb skeleton in aquatic Reptiles and Mammals. New York, N.Y., Ann. Acad. Sci., **16**, 1906, (417-482, pl.).

Osgood, Wilfred H. 1. A new Vole from Montague Island, Alaska. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (71-72).

Osgood, W. H. 2. Some names of American *Cervidae*. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (87-88).

Pacaut. L'amitose et les noyaux géminés dans les épithéliums stratifiés normaux des Mammifères. C.-R. Ass. anat., 7^e session, (Genève), **1905**, Nancy, 1906, (48-58, fig.).

Paladino, Giovanni. 1. Sulla rigenerazione del parenchima ovarico e sul tipo di struttura dell'ovaia di Delfina. Napoli, Rend. Acc. sc., ser. 3, **9**, 1903, (289-298, 2 pls.).

Paladino, G. 2. La mitosi nel corpo luteo e le recenti congetture sulla significazione di questo. Napoli, Rend. Acc. sc., ser. 3, **10**, 1904, (394-398, 1 pl.).

Paladino, G. 3. Il trofoblasto e la trofosfera non sono l'equivalente dell'embriotrofo. Napoli, Rend. Accad. sc., ser. 3, **12**, 1906, (498-501).

Palmer, T. S. *Amomys* and other compounds of *Mys*. Washington, D.C., Proc. Biol. Soc., **19**, 1906, (97).

Papin, Louis. Sur le revêtement corné de l'épithélium pharyngo-œsophagien chez le Cobaye. Paris, C.-R. soc. biol., **61**, 1906, (157-159).

Parat, A. Les grottes de la Vallée de l'Yonne. Auxerre, Bul. Soc. Sci. hist. nat., **58**, pt. 2, 1904, 1905, (57-121).

Pardi, F[rancesco]. Intorno alle cosiddette cellule vaso-formative e alla

origine intracellulare degli eritrociti. I. Ricerche sul grande omento dei Mammiferi. Intern. Monatschr. Anat., Leipzig, **22**, 1905, (233-264, 1 pl.).

Paukul, E. *vide* Kolossoff, G.

Pavlova, Marie. 1. Résumé de la description des Mammifères fossiles recueillis par l'expédition polaire du Baron E. Toll en 1900-1903. St. Peterburg, Bull. Ac. Sc., sér. 5, **24**, 1906, (199-203).

Pavlova, M. 2. Études sur l'histoire paléontologique des Ongulés; ix, Séléonodotes posttertiaires de la Russie. St. Peterburg, Mém. Ac. Sc., sér. 8, **20**, 1906, (96, 8 pls.).

[**Pavlova**, M.] 3. Павлова, Марія. *Rhinoceros schleiermacheri* Kauf. изъ окрестностей Апаньева. [*Rhinoceros schleiermacheri* Kauf. des environs d'Ananiew.] Ježeg. geol. i miner., St. Peterburg, **7**, 1905, (119-140, 1 Taf.).

[**Pavlova**, M.] 4. Павлова, М. Описание ископаемыхъ млекопитающихъ, собранныхъ Русскою Полярною Экспедиціей въ 1900-1903 г.г. [Descriptions des Mammifères fossiles recueillis durant l'Expédition Polaire Russe en 1900-1903.] Résultats Scientifiques de l'Expédition Polaire Russe en 1900-1903 sous la direction du Baron E. Toll. Géologie et Paléontologie. St. Peterburg, 1906, 2 + 40 + 1), 4 pls.

Pearson, K. *vide* Barrington, A.

Peiser, Julius. Ueber den Einfluss des Win erschlafes auf die Schilddrüse. Zs. Biol., München, **48**, 1906, (482-488).

Pellegrini, Enrico. Contributo allo studio della morfologia dell'organo parasimpatico dello Zuckerkanal. Mon. zool. ital., Firenze, **17**, 1906, (254-264, figg.).

Peltier. Les Loups dans le Châlonais. Chalon-sur-Saône, Bul. soc. sci. nat., **32**, n. sér. 12, 1906, (110-111).

Peterson, O. A. 1. Preliminary description of two new species of the genus *Diceratherium*, Marsh, from the Agate Spring fossil quarry. Science, New York, N.Y., ser. 2, **24**, 1906, (281-283).

Peterson, O. A. 2. The Miocene Beds of Western Nebraska and Eastern Wyoming and their Vertebrate fauna.

Pittsburg, Pa., Ann. Carnegie Mus., **4**, 1906, (21-72, pls. ix-xix).

Peterson, O. A. 3. New Suilline remains from the Miocene of Nebraska. Pittsburg, Pa., Mem. Carnegie Mus., **2**, 1906, (305-324, pls. xxiv, xxv).

Pettit, Auguste. Description des encéphales de *Grampus griseus*, Cuv., *Steno frontatus*, Cuv., et de *Globicephalus melas*, Traill. Rés. Camp. Sci., Monaco, No. **31**, 1905, (1-58, pls.).

Peyron *vide* Alezais.

Pfützenreuter, Erich. Ueber einen Fall eines rippenartigen Querfortsatzes am ersten Lendenwirbel bei *Camelus bactrianus* L. Diss. Königsberg i. Pr. (Druck v. H. Herrmann), 1904, (28, 2 Taf.). 21 cm.

Phillips, E[verett] F[ranklin] *vide* Rommel, G. M.

Pfizenmayer, E. Beitrag zur Morphologie von *Elephas primigenius* Blumenb. und Erklärung meines Reconstructionsversuches. St. Peterburg, Verh. Russ. mineral. Ges., **43**, 1905, (521-542, pl. 7.).

Pichler, A. Čigali (*Canis aureus*, L.) is Dalmaciji. [The Jackal in Dalmatia]. Glasnik. Naravosl. druzt., Zagreb, **18**, 1906, (1-5).

Pighini, Giacomo. Sulla struttura dei globuli rossi. Archivio sc. med., Torino, **29**, 1905, (49-69, 1 pl.).

Pike, F. H. *vide* Guthrie, C. C.

Pinkus, Felix. Zur Kenntnis der Hautsinnesorgane: die vergleichend anatomische Bedeutung der Haarscheiben. Verh. Ges. D. Natf., Leipzig, **76**, 2, pt., 2, 1905, (420-421).

Poche, F. Zur Nomenclatur der Mariden. Zool. Anz., Leipzig, **30**, 1906, (326).

Pocock, R. I. 1. Notes upon menstruation, gestation, and parturition of some Monkeys that have lived in the [Zoological] Society's gardens. London, Proc. Zool. Soc., **1906**, (558-570).

Pocock, R. I. 2. On the "rattle" of the Porcupine. London, Proc. Zool. Soc., **1906**, (902-903).

Pocock, R. I. 3. Description of a new species of Mangabey (*Cercocebus hamlyni*). Ann. Mag. Nat. Hist., London, ser. 7, **18**, 1906, (208-210, pl. vii).

Pocock, R. I. 4. On the genus *Cercocebus*, with a key to the known species. Ann. Mag. Nat. Hist., London, ser. 7, **18**, 1906, (279-286).

Pocock, R. I. 5. Description of a second new species of *Mangabey*. Ann. Mag. Nat. Hist., London, ser. 7, **18**, 1906, (454-455).

Pöschl, Károly. Az angol telivér lócsaládok hazánkban és azoknak hatása félvér tenyésztésünkre. [Die englischen Vollblutpferde in Ungarn und Einfluss derselben auf die ungarische Zucht.] Állatorv. L., Budapest, **29**, 1906, (517-519, 529-530).

Polara, G. e Comes, S. Sopra un mostro doppio di *Sus scrofa*: (Siccfalo-Sinoto). Catania, Atti Acc. Gioenia, ser. 4, **19**, 1906, Mem. xii, (1-16, figg.).

Pontier, G. 1. Sur nouveau gisement de l'*Elephas primigenius* dans la vallée de l'Aa. Naturaliste, Paris, **28**, 1906, (251).

Pontier, G. 2. Sur la presence du chevreuil (*C. capreolus*) dans la quaternaire de la vallée de l'Aa. Naturaliste, Paris, **28**, 1906, (263-264).

Pousargues, E. Mammifères de l'Indo-Chine. Mission Pavie, Paris, **3**, 1904, (510-549).

Powell-Cotton, P. H. G. The Okapi. Times, London, 1906, Sept. 26th; see also Nature, London, **74**, 1906, (578).

Prentiss, Charles W[illiam]. Extra digits and digital reductions. Pop. Sci. Mon., New York, N.Y., **68**, 1906, (336-348, fig.).

Proger, T. W. Bats. Cardiff, Trans. Nat. Soc., **38**, 1905, (67-73).

Punnett, A. H. The Mammals of Kew Gardens; in "The Wild Fauna and Flora of the Royal Botanical Gardens, Kew." Kew Bull., London, **1906**.

Quix, F[rançois] H[ubert]. Het gehoororgaan der Japansche dansmuis als type van doofstom dier. [Das Gehörorgan der japanischen Tanzmaus als Typus eines taubstummen Tieres.] Utrecht, Onderz. Physiol. Lab., ser. 5, **7**, 1906, (15-40, pl.); Ned. Tijdschr. Geneesk., Amsterdam, **42**, 2, 1906, (26-47, Fig.).

Rabaud, Etienne. Études anatomiques sur les monstres composés (Chat mono-céphalien déradelphe). Paris, Bul. soc. philom., sér. 9, **7**, 1905, (323-347).

Raesfeld, Ferdinand von. Das Rehwild. Naturbeschreibung, Hege und Jagd der Rehe in freier Wildbahn. Berlin (P. Parey), 1906, (v + 550). 25 cm. Geb. 15 M.

Ransom, S. Walter. Some new facts touching the architecture . . . in Mammals. Baltimore, Md., Proc. Ass. Amer. Anat., 20th Sess., (xiii).

Raspail, Xavier. Sur le transport d'œufs de poule par la Fouine. L'œuille jeunes natural., Paris, sér. 4, **36**, 1906, (100-101).

[Même sujet : BOUVET, G., *Ibid.*, (119); LOMOND, (119-120).]

Rautenberg, Max. Über *Pseudolestodon hexaspondylus*. Palæontographica, Stuttgart, **53**, 1906, (1-52, pls. i-vi).

Rawitz, Bernhard. 1. Beiträge zur mikroskopischen Anatomie der Cetaceen. [IV. Die vordere Hälfte des Bulbus oculi von *Phocaena communis* Cuv. und die Iris von *Balaenoptera musculus* Comp.] Intern. Monatsschr. Anat., Leipzig, **22**, 1905, (265-292, 2 pls.).

Rawitz, B. 2. Beiträge zur mikroskopischen Anatomie der Cetaceen. [V. Ueber d. feineren Bau d. Haare v. *Megaptera* u. *Phocaena*.] Intern. Monatsschr. Anat., Leipzig, **23**, 1906, (19-40, 1 Taf.).

Raymondaud. Monstre, cyclocéphalien rhinocéphale. Rev. sci. limous., Limoges, **14**, 1906, (353-355, fig.).

[Razevig, V. A.] 1. Разевигъ, В. А. Къ Краниологiи медвѣдя. Форма черепа бѣлаго медвѣдя (*Ursus arctos* L.) въ зависмости отъ возраста и породы. [Beiträge zur Craniologie des Bären. Die Schädelform des braunen Bären (*Ursus arctos* L.) in ihrer Abhängigkeit von dem Alter und der Rasse.] Psov. i ružejn. ochota, Moskva, **1906**, 4, (102-133, figg.).

[Razevig, V. A.] Разевигъ, В. А. 2. Новый видъ Кавказскаго тура. [Eine neue Art des kaukasischen Bergschafs (*Capra dinicki* Satunin)]. Psov. i ružejn. ochota, Moskva, **12**, 1905, (279-283).

[Razevig, V. A.] Разевигъ, В. А. 3. Кавказская серна. [Die kaukasische Gense]. Psov. i ružejn. ochota, Moskva, **1905**, 10, (86-102), 11-12 (136-165) (8°).

Read, Robert H. Natterer's Bat in Somersetshire. *Zoologist*, London, ser. 4, **10**, 1906, (312).

Reboul, J. Monstre double parasitaire, hétérotype, hétéradelphe. Nîmes, *Bul. soc. étud. sci. nat.*, **32**, 1905, (90-97).

Redlich, Karl A. Neue Beiträge zur Kenntnis der tertiären und diluvialen Wirbelthierfauna von Leoben. Wien, *Verh. Geol. Reichsanst.*, **1906**, (167-174).

Regalia, E. Nota osteologica sul l'Equide di Romanelli. Firenze, *Archivio Soc. it. Antrop. Etnol.*, **35**, 1905, (147-155).

Regaud, Cl. 1. Sur la fasciculation des spermies en voie de développement et la rétraction de leurs faisceaux vers les noyaux de Sertoli. Paris, *C.-R. soc. biol.*, **61**, 1906, (431-433).

Regaud, Cl. 2. État des cellules interstitielles du testicule chez la Taupe pendant la période de spermatogenèse et pendant l'état de repos des canalicules séminaux. *C.-R. Ass. anat.*, 6^e session, (Toulouse), Nancy, **1904**, (51-56).

Regaud, Ch. et Dubreuil, G. La constitution de la zone pellucide et les relations de l'épithélium folliculaire avec l'ovule, dans l'ovule de la Lapine. *C.-R. Ass. anat.*, 7^e session, (Genève), **1905**, Nancy, 1906, (22-32, fig.).

Reichenau, W. von. Beiträge sur näheren Kenntniss der Carnivoren aus den Sanden von Mauer und Mosbach. Darmstadt, *Abh. geol. Landesanst.*, **4**, 1906, (189-313, pls. i-xiv).

Reinhardt, Ludwig. Die Gewinnung der ältesten Haustiere. Prometheus, Berlin, **17**, 1906, (325-332, 341-345).

Reinhardt. Hunden i fortid og nutid. [Notes on *Canidae*]. Bergen, *Naturen*, **30**, 1903, (149-154).

Retterer, Ed. 1. Technique pour l'étude du tissu osseux rougi par l'alimentation garancée. Paris, *C.-R. soc. biol.*, **60**, 1906, (46-49).

Retterer, E. 2. Des hématies du Cha, et de leurs parties constituantes. *Parist C.-R. soc. biol.*, **61**, 1906, (9-11).

Retterer, E. 3. De la forme des hématies des Mammifères et de leurs parties constituantes. Paris, *C.-R. soc. biol.*, **60**, 1906, (1003-1006).

Retterer, E. 4. De la valeur cellulaire des hématies des Mammifères et de l'origine de leurs parties constituantes. Paris, *C.-R. soc. biol.*, **60**, 1906, (1102-1104).

Retterer, E. 5. Des hématies des Mammifères, de leur développement et de leur valeur cellulaire. *J. anat. physiol.*, Paris, **42**, 1906, (567-623).

Retzius, Gustaf. 1. Das Affenhirn in bildlicher Darstellung. (Cerebralia simiarum illustrata.) Jena (G. Fischer), 1906, (67 Taf. mit Text ohne Pag.) 39 cm. 50 M.

Retzius, G. 3. Die Spermien der Monotremen, Marsupialier, Edentaten, Vespertilionen. *In: Retzius, Biolog. Untersuchungen*, Stockholm & Jena (G. Fischer), ser. 2, **13**, 1903, (75-91, pls. xxix-xxxii).

Retzius, G. 4. Die Gaumenleisten des Menschen und der Tiere. *In: Retzius, Biolog. Untersuchungen*, Jena (G. Fischer), ser. 2, **13**, 1906, (117-168).

Reynolds, Sidney H. A Monograph of the British Pleistocene Mammalia, 2, pt. 2. The Bears. London, *Monogr. Palaeont. Soc.*, 1906, (1-35, pls. i-viii).

Ribeiro, A. de M. Vertebrados do Itatiaia. [Vertebrates of Itatiaia.] *Arch. Mus.*, Rio de Janeiro, **13**, 1906, (1-27).

Richter. Die sogenannten elastischen Organe des Hufes. *Zs. Veterinärk.*, Berlin, **17**, 1905, (289-305).

Ridgeway, R. The genealogy of the Thoroughbred Horse. *Cambridge Review*, **28**, 1906, (254-256).

Ridley, H. N. The menagerie at the Botanic Gardens. Singapore, *J. Straits Asiat. Soc.*, **1906**, (133-194).

Riegner. Beiträge zur Physiologie der Kiefebewegung: Zweiter Teil; Die Kiefermuskeln . . . bei Affen. *Arch. Anat. Physiol.*, Leipzig, *Anat. Abth.*, **1906**, (109).

Rörig, Adolf. 1. Altes und Neues vom Rehgeweih. *D. Jäger*, München, **28**, 1906, (225-226, 261-262).

Rörig, A. 2. Das Wachstum des Geweihes vom Edelhirsch. *D. Jäger*, München, **28**, 1906, (119-120, 131-132); *Arch. Entw. Mech.*, Leipzig, **20**, 1906, (507).

Rörig, A. 3. Das Wachstum des Geweihes von *Cervus elaphus*, *C. barbarus*, und *C. canadensis*. Zool. Beob., Frankfurt a. M., **47**, 1906, (134-142), and Arch. Entw.Mech., Leipzig, **20**, 1906, (507-536).

Rollinat et Trouessart, E. L. Sur l'atropie progressive de l'œil de la Taupe (*Talpa europaea*, Linné). Paris, C.-R. soc. biol., **61**, 1906, (602, 603).

Roman, F. La géologie des environs de Nîmes. Nîmes, Bul. Soc. étud. sci. nat., **33**, (1905), 1906, (1-64).

Rommel, Geo. M. and Phillips, E[verett] F[ranklin]. Inheritance in the female line of size of litter in Poland China Sows. Philadelphia, Pa., Proc. Amer. Phil. Soc., **45**, 1906, (245-254).

Roszbach, Edwin. [Bericht über die wissenschaftl. Leistungen im Gebiete der] Mammalia für 1896. Arch. Natg., Berlin, **65**, Bd 2, H. 1, 1899 [1906], (265-484).

Rostafiński, Jan. 1. Rasa a owłosienie bydła. (Ueber den Einfluss der Rasse auf die Behaarung des Rindes.) Kraków, Bull. Intern. Acad., **1906**, (693-716).

Rostafiński, Jan. 2. Rasa a owłosienie bydła. [Ueber den Einfluss der Rasse auf die Behaarung des Rindes]. Kraków, Rozpr. Akad., **46** B, 1906, (459-482).

Roth, A. vide Adolphi, H.

(Rothschild, Baron Maurice de. Exploration de l'Afrique orientale. Paris, C.-R. Acad. sci., **141**, 1905, (1039-1041).)

Rothschild, Baron M. de et Neuville, Henri. 1. Sur une Antilope nouvelle du Centre Africain (*Cephalophus leopoldi*). Paris, C.-R. Acad. sci., **143**, 1906, (1257-1259, figg.).

Rothschild, Baron M. de et Neuville, H. 2. L'*Hylochoerus meinertzhageni*, O. Thomas. Paris, C.-R. Acad. sci., **142**, 1906, (646-648); Paris, Bul. Soc. philom., sér. 9, **8**, 1906, (141-164, pls. i-xi).

Rothschild, (Hon.) Walter. 1. Zur Nomenclatur der Menschenaffen. C.-R. internat. Zool. Congress, 1904, (85-86); Berlin, SitzBer. Ges. natf. Freunde, **1906**, (85-87).

Rothschild, (Hon.) W. 2. Further notes on Anthropoid Apes. London, Proc. Zool. Soc., **1906**, (465-468).

Rothschild, (Hon.) W. 3. On African Forest-Pigs. London, Proc. Zool. Soc., **1906**, (632).

Rothschild, (Hon.) W. 4. Description of a new Zebra. London, Proc. Zool. Soc., **1906**, (691).

Rothschild, (Hon.) W. 5. Description of a new Bush-Buck. London, Proc. Zool. Soc., **1906**, (691-692).

Rubaschkin, W. Ueber die Veränderungen der Eier in den zugrunde gehenden Graaf'schen Follikeln. Anat. Hefte, Wiesbaden, Abt. 1, **32**, 1906, (255-278, pl.).

Ruge, Georg. 1. Die äusseren Formverhältnisse der Leber bei den Primaten. Morph. Jahrb., Leipzig, **35**, 1906, (75-239); **36**, 1906, (93-275, Figg.).

Ruge, G. 2. Form des Brustkorbes und Lagerung der Lungen im Brustkorbe beim indischen Elefanten. Morph. Jahrb., Leipzig, **35**, 1906, (496-505).

Russo, Achille. 1. Sulla funzione di assorbimento dell' epitelio germinativo dell' ovaia dei Mammiferi. Mon. zool. ital., Firenze, **17**, 1906, (275-282, figg.).

Russo, A. 2. Differenti stati dei corpi cromatici nell' ooplasma dei Mammiferi e loro riproduzione sperimentale. 2ª Nota prelimin. Catania, Boll. Acc. Gioenia, ser. 2, **89**, 1906, (3-13, figg.).

Russo, A. 3. Prime ricerche dirette a determinare la permeabilità e la struttura istochimica della zona pellucida nei Mammiferi. Nota prelimin. Catania, Boll. Acc. Gioenia, ser. 2, **88**, 1906, (2-10, figg.).

Ružička, Vladislav. Kritische Bemerkungen zur Frage der Membran und der inneren Struktur der Säugerythrocyten. Anat. Anz., Jena, **28**, 1906, (453-461).

Sacerdotti, C. 1. Sulle piastrine del sangue dei Mammiferi. Archivio sc. med., Torino, **25**, 1901, (483-507).

Sacerdotti, C. 2. Sugli eritrociti dei Mammiferi colorabili a fresco con l'azzurro di metilene. Archivio sc. med., Torino, **27**, 1903, (189-203).

Sacco, F. Resti fossili di Rinoceronti dell' Astigiana. Torino, Mem. Acc. Sc., ser. 2, **56**, 1906, (105–116, 1 pl.).

Sakurai, T. Normentafel zur Entwicklungsgeschichte des Rehes (*Cervus capreolus*). Normentafeln zur Entwicklungsgeschichte der Wirbeltiere, Keibel, Jena, No. 6, 1906.

Sarasin, P. und Sarasin, F. Versuch einer Anthropologie der Insel Celebes; Die Toala-Höhler von Lamontjong. Material zur Naturgeschichte. Celebes, Wiesbaden, 5, pt. 1, 1905, (1–62, pls.).

Sassi, Moriz. *Procarvia slatini* n. sp. Wien, SitzBer. Ak. Wiss., **115**, 1906, (995–1002, 2 pls.).

[**Satunin, K. A.**] Сатунинъ, К. А. 1. Млекопитающія Европейской Россіи и Кавказа. [Die Säugethiere des europäischen Russlands und des Kaukasus]. Prir. i ochota, Moskva, **34**, 1, 1906, Beilage, (33–48).

Satunin, K. A. Сатунинъ, К. А. 2. Алтайская рысь. [Der Altai-Luchs]. Prir. i ochota, Moskva, **1906**, 2–3, (1–3).

Satunin, K. A. 3. Ein neues Reh vom Tjan-schan. Zool. Anz., Leipzig, **30**, 1906, (527–528).

[**Satunin, K. A.** 4. Neue und wenig bekannte Säugetiere aus dem Kaukasus und aus Transkaspien, Tiflis, Mitt. Kaukas. Mus., **2**, 1905, (45–86, Fig.); Prir. i ochota, Moskva, **1906**, 10, (1–8), 11, (1–7), 12, (1–4).

Satunin, K. A. 5. Die Säugetiere des Talyschgebiets und der Mugansteppe, Tiflis, Mitt. Kavk. Mus., **2**, 1906, (87–402, 4 Taf.).

Satunin, K. A. 6. Dachs und Marder vom Ende der Bronzezeit im Kaukasus. Tiflis, Mitth. Kavk. Mus., **3**, 1906, (1–35, Taf. i–ii).

Satunin, K. A. vide Turkin, N. V.

Sauvinet, E. L'Oryctérope au Jardin des Plantes. Nature, Paris, **34**, 1906, 1^{er} sem., (401, fig.).

Scaffidi, Vittorio. Ricerche sulla esistenza e sulla fine struttura della valvola di Eustachio nel cuore di alcuni Mammiferi. Roma, Ric. Lab. anat. norm., **12**, 1906, (177–197, pl.).

Schaeck, F. de. Le Campagnol des Neiges. Naturaliste, Paris, sér. 2, **29**, 1903, (224–225).

(N-9720 f)

Scharff, R. F. 1. Polecat remains in a Clare kitchen-midden. Irish Nat., Dublin, **15**, 1906, (46).

Scharff, R. F. 2. On the former occurrence in Ireland of the African Wild Cat. Dublin, Proc. R. Irish Acad., B, **36**, 1906, (1–12, pl. i).

Scherren, H. Old pictures of Anthro-poid Apes. London, Proc. Zool. Soc., **1905**, 2, (298–302).

(**Schlaginhaufen, Otto.** Das Haut-leistensystem der Primatenplanta unter Mitberücksichtigung der Palma. [Forts.] Morph. Jahrb., Leipzig, **34**, 1905, (1–125).)

[**Schlater, G. G.**] Шлатеръ, Г. Г. Къ вопросу о филогенезѣ такъ наз. „зачатковаго пузыря“ млекопитающихъ. [Zur Phylogenie der Säugethier-Keimblase.] St. Peterburg, Trav. Soc. Nat., **37**, 1906, (255–269), deutsches Rés., (272–274).

Schmaltz, Reinhold. 1. Kreuzung zwischen Wild- und Hausschwein. Wild u. Hund, Berlin, **12**, 1906, (347).

Schmaltz, R. 2. Das Fehlen der Pleurahöhle beim indischen Elefanten. Morph. Jahrb., Leipzig, **36**, 1906, (92).

Schmaltz, R. 3. Anatomische Notizen. III. Ein Modell des Rindermagens. Berliner tierärztl. Wochenschr., **1905**, (453–455).

Schmaltz, [R.]. 4. Anatomische Notizen. IV. Warum stehen die Zehen des Pferdes schräg? Berliner tierärztl. Wochenschr., **1905**, (569–572).

Schmaltz, R. 5. Anatomische Notizen. Eine seltene Missbildung am Ebergebiss. Berliner tierärztl. Wochenschr., **1906**, (41).

Schmaltz, R. 6. Anatomische Notizen. Konstruktion und Grösse der Standwinkel an den Beinen des Pferdes. Berliner tierärztl. Wochenschr., **1906**, (257–261).

Schmidt, J. Die normale Temperatur des Rindes. Berliner tierärztl. Wochenschr., **1905**, (437–442).

Schmidtchen, Paul. Die Sehnen-scheiden und Schleimbeutel der Gliedmassen des Rindes. Monatshefte Tierheilk., Stuttgart, **18**, 1906, (1–60, 5 pls.).

Schmitt, J. Monographie de l'île d'Anticosti (Golfe St. Laurent). Paris, 1904, (vi + 370, illustr.).

Schoenbeck, Richard. Rassen-Typen des Pferdes. Ueberblick über die wichtigsten Pferderassen der Erde. Berlin (E. Eggelbrecht), 1906, (XII + 281, 40 pls.). Text 25 cm. Atl. 60 cm.

Schroeder, Henry. *Rhinoceros mercki*, Jäger, von Heggen im Saurland. Berlin, Jahrb. Geol. Landesanst., **31**, 1906, (212-239, pl. iv).

Schroeder, H. and **Stoller**, J. Wirbeltierskelette aus den Torfen von Klinge, bei Kottbus. Berlin, Jahrb. geol. Landesanst., **26**, 1906, (—).

Schütze, W. Der Elephant in Britisch-Ostafrika und Uganda. Globus, Braunschweig, **89**, 1906, (141-144).

Schulze, Franz Eilhard. **1.** Beiträge zur Anatomie der Säugetierlungen. Berlin, SitzBer. Ak. Wiss., **1906**, (225-243).

Schulze, F. E. **2.** Demonstration einiger stereoskopischer Diapositive und Dianegative, den Bau der Säugetierlungen betreffend. Verh. D. Zool. Ges., Leipzig, **1906**, (263-264).

Schumacher, Siegmund von. **1.** Ueber die Kehlkopfnerven beim Lama (*Auchenia lama*) und Vicunna (*Auchenia vicunna*). Anat. Anz., Jena, **28**, 1906, (156-160).

Schumacher, S. von. **2.** Über die Nerven der Schwänze der Säugetiere und der Menschen, mit besonderer Berücksichtigung des sympathischen Grenzstranges. Wien, Sitz. Ber. Ak. Wiss., **114**, 1906, (569).

Schuster, Wilhelm. Die Bedeutung des weissen Steissflecks beim Reh (*Capreolus caprea*). Natur u. Haus, Dresden, **14**, 1906, (383-384).

Schwalbe, G. Sulla sutura metopica nei Primati. Roma, Atti Soc. romana antrop., **10**, 1904, (159-181).

Schwalm, A. Amadé. A *Tachyoryetes annectens*, Ths., faji jogosultsága. [Über die Artberechtigung von *Tachyoryetes annectens*, Ths.] Állatt. Közlem., Budapest, **5**, 1906 (131-139, pl. y).

Schwann, Harold. A list of the Mammals obtained by Messrs. R. B. Woosnam and R. E. Dent in Bechuana-land. London, Proc. Zool. Soc., **1906**, (101-111, pl. vi).

Schwann, H. *vide* Thomas, Oldfield.

Schwarztrauber, J. Das Analrohr des Schafes. Morph. Jahrb., Leipzig, **35**, 1906, (65-71).

Schweder, G. Der Rentierfund in Olai und andere baltische Cervidenfunde. Riga, Korr.-blt. Naturf. Ver., **49**, 1906, (17-39).

Sclater, P. L. **1.** Note on the Okapi. London, Proc. Zool. Soc., **1906**, 1907, (760-761).

Sclater, P. L. **2.** Preservation of the Big Game of Africa. London, Soc. Preserv. Fauna of Empire, **2**, 1905, (46-50).

Scott, H. H. **1.** Memoir on *Macropus anak*, a fossil Kangaroo from King Island. Victoria Mus. Launceston, 1905, pamphl. (2, 3 plates).

Scott, H. H. **2.** Memoir on *Procoptodon rapha* Owen, from King Island. Victoria Mus., Launceston, 1906, pamphl., (2, 2 pls.).

Scott, W. B. Convergent evolution, as illustrated by the *Litopterna*, a group of fossil Ungulata in Patagonia. [Abstract.] London, Rep. Brit. Ass., **1905**, (443).

Seeger, J. H. W. Merkwürdige Zutraulichkeit eines jungen Eichkätzchens. Zool. Beob., Frankfurt a. M., **47**, 1906, (101-105).

Selous, H. C. *vide* Dennys, F. O. B.

Senna, Angelo. Appunti chiroterologici [*Rhinopoma microphyllum*]. Napoli, Annuario Museo zool., ser. 2, **2**, N. 14, 1906, (1-7, fig.).

Sergi, Sergio. Le variazioni dei solchi cerebrali e la loro origine segmentale nell' *Hylobates*. Roma, Ric. Lab. anat. norm., **10**, fasc. 3, 1904, (189-255, 2 tav.).

Seton, Ernest Thompson. **1.** The Wapiti and his antlers; a study of the Wapiti or Round-horned Elk of America (*Cervus canadensis*, Erxleben, 1777). Scribner's Magazine, New York, N.Y., **39**, 1906, (15-33, illustr.).

Seton, E. T. **2.** The Prong-horned Antelope, the Prong-Buck of America (*Antilocapra americana*, Ord. 1818). Scribner's Magazine, New York, N.Y., **40**, 1906, (33-49, illustr.).

Seton, E. T. **3.** The Moose and his antlers. Scribner's Magazine, New York, N.Y., **39**, 1906, (157-178, illustr.).

Seton, E. T. 4. The Caribou and his kindred. Scribner's Magazine, New York, N.Y., **39**, 1906, (126-143, illustr.).

Seton, E. T. 5. The American Bison or Buffalo. *Bison americanus* (Gmelin, 1788). Scribner's Magazine, New York, N.Y., **40**, 1906, (385-405, illustr.).

Seton, E. T. 6. The Whitetailed (Virginia) Deer and its kin, *Odocoileus americanus* (Erxleben, 1777). Scribner's Magazine, New York, N.Y., **40**, 1906, (321-341, illustr.).

Seton, E. T. 7. Animal Heroes: being the Histories of a Cat, a Dog, a Pigeon, a Lynx, two Wolves, and a Reindeer. London, 1906, (1-362, illustr.).

Sheppard, T. On a section in the post-glacial deposit at Hornsea. Naturalist, London, **1906**, (420-424).

Shiras, G. Photographing Wild Game with flashlight and camera. Nation. Geog. Mag., New York, **17**, 1906, (367-423, pls.).

Shortridge, G. C. v. Thomas, Oldfield.

[Šimkevič, V. M.] Шимкевичъ, В. М. Объ инстинктахъ у домашнихъ животныхъ [Ueber die Instinkte der Hausthiere.] St. Petersburg, Trav. Soc. nat., **35**, 4, 1906, (67-76).

Simroth, H. 1. Bemerkungen über die Tierwelt Sardinien's. Verh. D. zool. Ges., Leipzig, **1906**, (160-195).

Simroth, H. 2. Über den schwarzen Hamster als typische Mutation. Biol. Centralbl., Berlin, **26**, 1906, (334-340).

Sinclair, W. J. 1. Some Edentate-like remains from the Mascall beds of Oregon. Berkeley, Univ. Cal. Bull. Dept. Geol., **5**, 1906, (65-66).

Sinclair, W. J. 2. Mammalia of the Santa Cruz beds: Marsupialia. Rep. Princeton Univ. Exped. Patagonia, Princeton, N.Y., **4**, 1906, (334-459, pls. xli-xlv).

Sobotta, J. Über die Bildung des Corpus luteum beim Murchweinchchen. Anat. Hefte, Wiesbaden, 1st sect. **32**, 1906, (89-).

Soffel, Karl. Waldmaus (*Mus sylvaticus*). Zool. Beob., Frankfurt a. M., **47**, 1906, (56-58).

Sommer, Alfred. Das Muskelsystem des Gorilla. Jenaische Zs. Natw., **42**, 1906, (181-308, 4 Taf.).

Sonnenbrodt, Albert. Septumdefekt mit Persistenz des Foramen ovale am Herzen eines Kalbes. Berliner tierärztl. Wochenschr., **1906**, (45-16).

Soulié, A. vide Morel, Ch.

Southwell, Thomas. 1. Notes on the Arctic Whale-fishery from Yarmouth and Lynn. Norwich, Trans. Nat. Soc., **8**, 1906, (202-211).

Southwell, T. 2. The Newfoundland Whale fishery in 1905. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (193-195).

Southwell, T. 3. Newfoundland Sealing, 1906. Zoologist, London, ser. 4, **10**, 1906, (375-376).

Southwell, T. 4. Notes on the Arctic Whaling voyage of 1905. Zoologist, London, ser. 4, **10**, 1906, (41-80).

Spillman, W. J. Inheritance of colour-coat in Swine. Science, New York, N.Y., **24**, 1906, (441-443).

Spreadborough, W. Notes on some British Columbia Mammals. Ottawa Nat., **19**, 1906, (200-201).

Spurrell, H. G. F. The articulation of the Vertebrate jaw. London, Proc. Zool. Soc., **1906**, (114-123).

Stahr, Hermann. 1. Vergleichende Untersuchungen an den Geschmackspapillen der Orang-Utanzenge. Zs. Morph., Stuttgart, **9**, 1906, (341-360, 1 Taf.).

Stahr, H. 2. Ueber die Zungenpapillen des Breslauer Gorillaweibchens. [In] Beiträge zur Anatomie eines weiblichen Gorilla gesammelt v. W. Küken-thal. Jenaische Zs. Natw., **41**, 1906, (618-631).

Starling, E. H. vide Claypon, J. E. Lane.

Stegmann, Friedrich Percival. Russlands Rinderassen. Die Zucht, Haltung, Nutzung und phylogenetische Beziehung der Rinder im europäischen Russland. Tl 1: Die Schläge Nordrusslands. Diss., Jena. Riga, 1906, (57).

Stehlin, H. G. vide Mieg, M.

Stephens, F. California Mammals, San Diego, Cal., 1906, (351).

Sterzi, Giuseppe. Intorno alla struttura dell' ipofisi nei Vertebrati. Padova, Atti. Acc. Ven. trent., ser. 2, **1**, 1906, (70-141).

Stewart, G. N. (and others). The resuscitation of the central nervous system of Mammals. *J. Exp. Med.*, Baltimore, Md., **8**, 1906, (289).

Stewart, G. N. *vide* Guthrie, C. C.

Stigand, C. H. and **Lyell, D. D.** Central African Game and its Spoor. London, 1906, (xii + 315, pls.).

Stoll, F. E. Die Verbreitung des Flughörnchens in den Ostseeprovinzen. *Riga, Korr.-blt. Naturf. Ver.*, **49**, 1906, (61-70).

Stoller, J. *vide* Schroeder, H.

Strahl, H. 1. Placentarsynecytien. *Anat. Anz.*, Jena, **29**, Suppl., 1906, (69-73).

Strahl, H. 2. Der Uterus von *Erinaceus europaeus* L. nach dem Wurf. Amsterdam, *Versl. Wis.-Nat. Afd. K. Akad. Wet.*, **14**, 1906, (784-786).

Strahl, H. 3. The uterus of *Erinaceus europaeus* L. after parturition. Amsterdam, *Proc. Sci. Akad. Wet.*, **8**, 1906, (812-814).

Strahl, H. 4. Embryonalzellen der Säuger und der Placenta. [In] O. Hertwig Handbuch der vergleichenden und experimentellen Entwicklungslehre der Wirbeltiere. Jena, i.

Strahl, H. 5. Über die Semi-placenta multiplex von *Cervus elaphus*, L. *Anat. Hefte*, Wiesbaden, Abt. I, **31**, 1906, (199-218).

Strassberger, O. Jagdverbot auf Vikunas und Chinchillas. *Zool. Beob.*, Frankfurt a. M., **47**, 1906, (56).

Stratz, C. H. Zur Abstammung des Menschen. Nach einem Vortrag . . . Stuttgart (F. Enke), 1906, (27). 25 cm. 1,60 M.

Stromer, Ernst. 1. Neue Forschungen über das Mammut und seine Verwandten. Vortrag . . . *CorrBl. D. Ges. Anthr.*, Braunschweig, **37**, 1906, (48-50).

Stromer, E. 2. Über die Bedeutung der fossilen Wirbeltiere Africas für die Tiergeographie. *Verh. D. Zool. Ges.*, Leipzig, **1906**, (204-218).

Struve, J. Die Periodicität der Brunst bei den Haussäugetieren. *D. landw. Tierzucht*, Leipzig, **10**, 1906, (303-304).

[**Suchoručkin, I. I.**] Сухоручкинъ, И. И. Артерін и нервы лошади и артерін конечностей собаки (Атласъ). [Die Arterien und Nerven des Pferdes und die Arterien der Extremitäten des Hundes. (Ein Atlas).] 2 te Aufl. Jurjev, 1905, (79, 29 pls.).

Šumova-Sieber, N. O. *vide* Dzeržgovskij, V. S.

Sweet, Georgina. Contributions to our knowledge of the anatomy of *Notoryctes typhlops*, Stirling; Part 3. The Eye. *Q. J. Microsc. Sci.*, London, ser. 2, **50**, 1906, (547-571, pl. xxxi).

Syers, H. W. *vide* Murat, J. P.

Symington, R. Observations on the Cetacean flipper, with special reference to hyperphalangism and polydactylism. *J. Anat. Physiol.*, London, **40**, 1906, (100-109, 2 pls.).

[**Szakáll, J.** Das Auge der Blindmaus. *Math.-natw. Ber. Ungarn*, Leipzig, **20**, 1905, (272-288).]

Tandler, J. Zur Entwicklungsgeschichte der arteriellen Wandernetze. *Anat. Hefte*, Wiesbaden, Abt. I, **31**, 1906, (235-267, 4 pls.).

[**Tarnani, I.**] Тарнани, И. Уродства Животныхъ. [Monstruosités chez les animaux.] *Novo-Aleksandrija, Zap. Inst. sel'sk. choz.*, **18**, 1906, (106-134).

Tawara, S. Das Reizleitungssystem des Säugetierherzens. Eine anatomisch histologische Studie über das Atrio-ventrikulärbündel und die Purkinjeschen Fäden. Mit einem Vorwort von L[u]dwig Aschoff. Jena, 1906, (ix+200, 5 pls.).

Tawara *vide* Aschoff, L.

Taylor, E. *vide* Minot, C. S.

Tellyesniczky, K. Die Erklärung einer histologischen Täuschung, der sogenannten Kopulation der Spermien und der Sertolischen Elemente. *Arch. mikr. Anat.*, Bonn, **68**, 1906, (540-572, 1 pl.).

Thomas, Oldfield. 1. Note on *Limnomys*. Washington, D.C., *Proc. Biol. Soc.*, **19**, 1906, (199).

Thomas, O. 2. The Duke of Bedford's zoological exploration in Eastern Asia. 1. List of Mammals obtained by Mr. M. P. Anderson in Japan. London, *Proc. Zool. Soc.*, **1905**, 2, 1906, (331-363, pl. ix).

Thomas, O. 3. On a collection of Mammals from Persia and Armenia, presented to the British Museum by Col. A. C. Bailward. London, Proc. Zool. Soc., 1905, 2, 1906, (519-527, pl. xvi).

Thomas, O. 4. On a New Forest Pig. London, Proc. Zool. Soc., 1906, (2-3).

Thomas, O. 5. On a new form of Bear. London, Proc. Zool. Soc., 1906, (231-232).

Thomas, O. 6. A new species of Duiker. London, Proc. Zool. Soc., 1906, (463-464, pl. xxxv).

Thomas, O. 7. On Mammals collected in South-West Australia for Mr. W. E. Balston. London, Proc. Zool. Soc., 1906, (468-478).

Thomas, O. 8. On regeneration in the tails of Dormice. London, Proc. Zool. Soc., 1906, (491-494).

Thomas, O. 9. On Mammals from Northern Australia, presented to the National Museum by Sir Wm. Ingram, Bart., and the Hon. John Forrest. London, Proc. Zool. Soc., 1906, (536-543, pl. xxxvii).

Thomas, O. 10. List of further collections of Mammals from Western Australia, including a series from Bernier Island, obtained for Mr. W. E. Balston; with field-notes by the collector, Mr. G. C. Shortridge. London, Proc. Zool. Soc., 1906, 1907, (763-776).

Thomas, O. 11. The Duke of Bedford's zoological exploration in Eastern Asia. II. List of small Mammals from Korea and Quelpart. London, Proc. Zool. Soc., 1906, 1907, (853-865).

Thomas, O. 12. On the generic arrangement of the Australian Rats hitherto referred to *Conilurus*, with remarks on the structure and evolution of their molar cusps. Ann. Mag. Nat. Hist., London, ser. 7, 17, 1906, (81-85).

Thomas, O. 13. A new aquatic genus of *Muridae* discovered by Consul L. Soderström in Ecuador. Ann. Mag. Nat. Hist., London, ser. 7, 17, 1906, (86-88).

Thomas, O. 14. On a second species of *Lenothrix* from the Lin Kiu Islands. Ann. Mag. Nat. Hist., London, ser. 7, 17, 1906, (88-89).

Thomas, O. 15. New African Mammals of the genera *Cercopithecus*, *Scotophilus*, *Miniopterus*, *Crocidura*, *Georychus*, and *Heliophobius*. Ann. Mag. Nat. Hist., London, ser. 7, 17, 1906, (173-179).

Thomas, O. 16. New Mammals from the Australian region. Ann. Mag. Nat. Hist., London, ser. 7, 17, 1906, (324-332).

Thomas, O. 17. New Insectivores and Voles collected by Mr. A. Robert near Trebizond. Ann. Mag. Nat. Hist., London, ser. 7, 17, 1906, (415-421).

Thomas, O. 18. A third genus of the *Ichthyomys* group. Ann. Mag. Nat. Hist., London, ser. 7, 17, 1906, (421-423).

Thomas, O. 19. New Asiatic Mammals of the genera *Kerivoula*, *Eliomys*, and *Lepus*. Ann. Mag. Nat. Hist., London, ser. 7, 17, 1906, (423-426).

Thomas, O. 20. A new genus of Free-tailed Bat from N. E. Africa. Ann. Mag. Nat. Hist., London, ser. 7, 17, 1906, (499-501).

Thomas, O. 21. A new Vole from Spain. Ann. Mag. Nat. Hist., London, ser. 7, 17, 1906, (576-577).

Thomas, O. 22. Descriptions of new Mammals from Mount Ruwenzori. Ann. Mag. Nat. Hist., London, ser. 7, 18, 1906, (136-147).

Thomas, O. 23. On a new Pigmy Antelope obtained by Col. J. J. Harrison in the Semliki Forest. Ann. Mag. Nat. Hist., London, ser. 7, 18, 1906, (148-150).

Thomas, O. 24. Three new Palaearctic Mammals. Ann. Mag. Nat. Hist., London, ser. 7, 18, 1906, (220-222).

Thomas, O. 25. Two new genera of small Mammals discovered by Mrs. Holmes-Tarn in British East Africa. Ann. Mag. Nat. Hist., London, ser. 7, 18, 1906, (222-226).

Thomas, O. 26. On some African Bats and Rodents. Ann. Mag. Nat. Hist., London, ser. 7, 18, 1906, (294-299).

Thomas, O. 27. New Mammals collected in N.E. Africa by Mr. Zaphiro, and presented to the British Museum by

W. N. McMillan, Esq. *Ann. Mag. Nat. Hist.*, London, ser. 7, **18**, 1906, (300-306).

Thomas, O. **28.** Notes on South-American Rodents. *Ann. Mag. Nat. Hist.*, London, ser. 7, **18**, 1906, (441-448).

Thomas, O. and Schwann, Harold. **1.** The Rudd exploration of South Africa; iv. List of Mammals obtained by Mr. Grant at Knysna. London, *Proc. Zool. Soc.*, **1906**, (159-168).

Thomas, O. and Schwann, H. **2.** The Rudd exploration of South Africa; v. List of Mammals obtained by Mr. Grant in N. E. Transvaal. London, *Proc. Zool. Soc.*, **1906**, (575-591).

(**Thomas, O. et Trouessart, E.** Note sur les Rongeurs de Tunisie recueillis par M. Marius Blanc. Paris, *Bul. soc. zool.*, **28**, 1903, (171-174).)

Thro, W. C. Early stages in the development of the salivary glands in Sheep and Pig embryos. *Science*, New York, N.Y., ser. 2, **24**, 1906, (298, 299).

Thyng, F. W. Squamosal bone in Tetrapodous Vertebrata. Boston, Mass., *Proc. Soc. Nat. Hist.*, **32**, 1906, (387-425, pls. xxxix-xlii).

[**Tjeenk Willink, H. D.** Mammalia voorkomende in Nederlandsch-Indië. [Mammals of Dutch East Indies.] Batavia, *Nat. Tijdschr.*, **65**, 1905, (153-345).]

Tokunaga, S. Japanese Vertebrate Fossils. Tokyo, *J. Coll. Sci.*, **21**, art. 2, 1906, (72).

Toldt, Karl. **1.** Über das Haar- und Stachelkleid von *Zaglossus*, Gill (*Proechidna*, Gervais). Wien, *Ann. Nat.-Hist. Hofmus.*, **21**, 1906, (1-21, Taf. i-iii).

Toldt, K. **2.** Interessante Haarformen bei einem kurzschnabeligen Ameisenigel. *Zool. Anz.*, Leipzig, **30**, 1906, (305-319).

Tomes, Charles S. **1.** On the minute structure of the teeth of Creodonts, with especial reference to their suggested resemblance to Marsupials. London, *Proc. Zool. Soc.*, **1906**, (45-58).

Tomes, C. S. **2.** Manual of Dental Anatomy. Human and comparative. 6th Ed. London, 1904, (viii + 636, figg.).

Toula, Franz. Das Gebiss und Reste der Nasenbeine von *Rhinoceros* (*Cerato-*

rhinus, Osborn) *hundsheimensis*. Wien, *Abh. Geol. RelisAnst.*, **20**, H. 2, 1906, (38, 2 Taf.).

Tourneux, F. Hermaphroditisme de la glande génitale chez la Taupe femelle adulte et localisation des cellules interstitielles dans le segment spermatique. C.-R. Ass. anat. 6^e session, (Toulouse). Nancy, **1904**, (19-53).

Townsend, C[harles] H[askins]. Capture of the West Indian Seal (*Monachus tropicalis*) at Key West, Florida. *Science*, New York, N.Y., ser. 2, **23**, 1906, (583).

Tregarthen, J. C. **1.** The Life-story of a Fox. London, 1906.

Tregarthen, J. C. **2.** The survival of the Otter. *Mon. Rev.*, London, No. **69**, 1906, (81-93).

Trouessart, E. L. **1.** Sur la décoloration hivernale du pelage des Mammifères. Paris, C.-R. soc. biol., **56**, 1906, (271-273).

Trouessart, E. **2.** Sur la conformation de l'oreille moyenne des Lémuriens et sur les rapports des Lémuriens fossiles de France avec ceux de Madagascar. Paris, C.-R. soc. biol., **61**, 1906, (712-715, fig.).

Trouessart, E. **3.** Remarques au sujet de la note de M. Weinberg. Paris, C.-R. soc. biol., **60**, 1906, (845-846).

Trouessart, E. L. **4.** La distribution géographique des animaux vivants et fossiles. *Naturaliste*, Paris, **28**, 1906, (66-69, &c., &c.).

Trouessart, E. L. **5.** Methodes nouvelles pour réunir et conserver les collections de petits Mammifères. Paris, *Bul. soc. zool.*, **30**, 1906, (151-156, figg.).

Trouessart, E. L. **6.** Sur une espèce nouvelle du genre *Ictiocyon* (*Speothos*) provenant de l'Équateur. Paris, C.-R. Acad. sci., **143**, 1906, (1184-1186).

Trouessart, E. L. **7.** Note sur le Cheval sauvage (*Equus przewalskii*) actuellement vivant à la ménagerie. *Bul. Muséum*, Paris, **1906**, (359-360).

Trouessart, E. L. **8.** Sur les sous-espèces de l'Écureuil d'Europe. *Bul. Muséum*, Paris, **1906**, (360-366).

Trouessart, E. L. **9.** Description de Mammifères nouveaux d'Afrique et de Madagascar. *Bul. Muséum*, Paris, **1906**, (443-447).

Trouessart, E. L. 10. Le Couagga et le Zebra de la collection du Muséum. Bul. Muséum, Paris, **1906**, (449-451, pls. i, ii.).

Trouessart, E. L. vide Rollinat.

(**Trouessart, E. vide** Thomas, Oldfield.)

True, F. W. Description of a new genus and species of Fossil Seal from the Miocene of Maryland. Washington, D.C. Smithsonian Inst., Nation. Mus., Proc., **30**, 1906, (835-840, pls. lxxv, lxxvi).

Tschassownikow, S. Ueber die histologischen Veränderungen der Bauchspeicheldrüse nach Unterbindung des Ausführungsganges: Zur Frage ueber den Bau und die Bedeutung der Langerhansschen Inseln. Arch. Mikr. Anat., Bonn, **67**, 1906, (758-772, pl. xxxvi).

[**Tuchoff, W. N.**] Тюшовъ, В. Н. По западному берегу Камчатки. [Le long de la côte occidentale de Kamtschatka.] St. Peterburg, Zap. Russ. Geogr. Obsč., **37**, 2, 1906, (1-521, carte).

[**Turkin, N. V. und Satunin, K. A.**] Туркинъ, Н. В. и Сатунинъ, К. А. Звѣри Россіи. [Die jagdbaren Säugethiere Russlands. Forts.] Pri. i ochota, Moskva, **1906**, 11, (827-842), 12, (843-890).

Turner, Sir William. White-sided Dolphin (*Delphinus acutus*) from the coast of Scotland. Ann. Scot. Nat. Hist., Edinburgh, **1906**, (59).

Turquan, V. Extinction des Loups en France. Nature, Paris, **34**, 1906, (322-323, carte).

Ussher, R. J. The Hyæna-dens of the Mammoth cave near Doneraile, co. Cork. Irish Nat., Dublin, **15**, 1906, (237-249).

Vaeth, Josef. Die Urgeschichte des Pferdes. Karlsruhe, Mitt. Ver. Tierärzte, **4**, 1904, (124-126, 133-138, 149-153).

Van den Broek, A. J. P. 1. Eine Doppelbildung von *Talpa europaea*. Petrus Camper, Bijdr. Anat., Haarlem, **4**, 1906, (195-201).

Van den Broek, A. J. P. 2. Over de verhouding der geslachtsgangen tot de geslachtsklier bij buideldieren. [On the relation of the genital ducts to the genital gland in Marsupials.] Amsterdam, Versl. Wis. Nat. Afd. K. Akad. Wet., **15**, 1906, (335-341).

Van den Broek, A. J. P. 3. On the relation of the genital ducts to the genital gland in Marsupials. Amsterdam, Proc. sci. Akad. Wet., **9**, 1906, (396-402, figg.).

Van den Broek, A. J. P. 4. Zur Entwicklung der Geschlechtsstränge und Geschlechtsgänge bei den Beuteltieren. Anat. Anz., Jena, **28**, 1906, (579-594, Figg.).

Van der Stricht, O. 1. La structure de l'œuf de Chauve-Souris (*Vespertilio noctula*). C.-R. Ass. anat., 7^e session, (Genève), **1905**, Nancy, 1906, (6-12); Jena, Verh. Anat. Ges., 19. Versamml. in Genf, 1905, (1-8).

Van der Stricht, O. 2. Les mitoses de maturation de l'œuf de la Chauve-Souris (*V. noctula*). C.-R. Ass. anat., 8^e session (Bordeaux), Nancy, **1906**, (51-55).

Van der Vloet. Ueber den Verlauf der Pyramidenbahn bei niederen Säugetieren, Anat. Anz., Jena, **29**, 1906, (113-132, Figg.).

Van Herwerden, Maria. 1. Die puerperalen Vorgänge in der Mucosa uteri von *Tupaia javanica*. Anat. Hefte, Wiesbaden, Abt., **32**, 1906, (155-169, 1 Taf.).

Van Herwerden, M. 2. Bijdrage tot de kennis van den menstrueelen cyclus. [Beitrag zur Kenntnis des menstruellen Cyclus.] Helder, Tijdschr. Ned. Dierk. Ver., ser. 2, **10**, 1906, (1-140, 2 pls.).

Van Westrienen, Anna F. A. S. Das Kniegelenk der Primaten, mit besonderer Berücksichtigung der Anthropoiden. Petrus Camper, Bijdr. Anat., Haarlem, **4**, 1906, (1-60, 1 Taf.).

Vasse, G. Les dangers de la chasse au Buffle. Bul. Muséum, Paris, **1906**, (94-95).

Vidal, Luis M. y Depéret, C. Contribucion al Estudio del Oligocena in Cataluña. [Contribution à l'étude de l'Oligocène en Catalogne.] Barcelona, Mem. R. Ac. As., ser. 3, **5**, 1906, (313-345).

Villemin F. vide Bouin, P.

Virchow, Hans. Bemerkungen über den Lidapparat von *Balaenoptera musculus*. Berlin, SitzBer. Ges. natf. Freunde, **1906**, (190-197).

Vloet vide Van der Vloet.

Völsch, Max. Zur vergleichenden Anatomie des Mandelkerns und seiner Nachbargelände. Tl I. Arch. mikr. Anat., Bonn., **68**, 1906, (573-683, 4 Taf.).

Vogl, Josef. Das Eichhörnchen als Waldschädling. Allg. Forstztg, Frankfurt a. M., **82**, 1906, (178-180).

Vogt, Oskar. Ueber strukturelle Hirneentra, mit besonderer Berücksichtigung der strukturellen Feder des Cortex palli. Anat. Anz., Jena, **29**, Suppl., 1906, (74-114, Figg.).

Vram, Ugo. Un quarto molare in un cranio di un *Cercocebus*. Roma, Atti Soc. romana antrop., **11**, 1905, (47-48, fig.).

Walker, C. E. *vide* Moore, J. E. S.

Wallisch, Wilhelm. Das Kiefergelenk. Arch. Anat. Physiol., Leipzig, Anat. Abt., 1906, (303-310, Taf.).

Ward, A. E. Notes on small Mammals in Kashmir and adjacent districts. Bombay, J. Nat. Hist. Soc., **17**, 1906, (154-155).

Ward, H. L. Observations on a Pied Rat. Milwaukee, Bull. Wis. Nat. Hist. Soc., **4**, 1906, (37-38).

Ward, Rowland. Records of Big Game, 5th ed. London, 1907, [issued Dec., 1906], (xii + 526, illustr.) [descriptions by Lydekker, R.].

Warren, Edward R. The Mammals of Colorado. Colorado Springs, Pub. Colo. Coll. Sci. Ser., **11**, 1906, (225-274).

Warren, Ernest. Note on the abnormal hoof of a sheep. London, Ann. Natal Govt. Mus., **1**, 1906, (109-110).

Wasmuth, Paul. Die Hörner des *Dinoceras*. Riga, Korr-bl. Naturf. Ver., **48**, 1905, (61-63).

Watkin, Hugh R. The white winter coat of certain creatures. Torquay, 1906, (1-20).

Watson, E. R. Preliminary note on the chemical examination of the milk and butter-fat of the Indian Buffalo. Calcutta, J. As. soc. Beng., ser. 2, **2**, 1906, (293-297).

Watson, James. The Dog Book. London, 1906, 2 vols., illustrated.

[**Weber**, Max. Über tertiäre Rhinocerotiden von der Insel Samos, ii.

Moskva, Bul. Soc. Nat., **1904**, [1905], (314-363, Taf. viii-x).]

Wedemeyer, Kour. Ueber Hundemilch. Berliner tierärztl. Wochenschr., **1906**, (763).

Weidenreich, Franz. 1. Neue und alte Beobachtungen an roten Blutkörperchen der Säuger. Vorl. Mitt. Folia haematologica, Berlin, **3**, 1906, (186-189).

Weidenreich, F. 2. Einige Bemerkungen zu dem Aufsatze J. Jolly's über die Form, Struktur und Fixation der roten Blutkörperchen der Säugetiere in Folia haemat. III. Jg. No. 4. Folia haematologica. Berlin, **3**, 1906, (241-244). [Nebst Antwort von J. Jolly.]

Weinberg. De l'existence de l'appendice chez les Singes inférieurs. Paris, C.-R. soc. biol., **60**, 1906, (844-845).

Weissflog, [Eugen Willy]. Zwitterbildung bei der Ziege. D. tierärztl. Wochenschr., Hannover, **13**, 1905, (26-28).

Weldon, W. F. R. Note on the offspring of Thoroughbred Chestnut Mares. London, Proc. R. Soc., B, **77**, 1906, (374-378).

Westrienen *vide* Van Westrienen.

Whitaker, A. 1. The flight of Bats. Naturalist, London, **1906**, (349-353, 379-384).

Whitaker, A. 2. The development of the senses in Bats. Naturalist, London, **1906**, (145-151, pl. xiv).

Willemsen, G. *vide* de Pauw, L.

Wilson, J. T. 1. Observations on the development of *Ornithorhynchus*. [Abstract.] London, Proc. R. Soc., B, **78**, 1906, (313-315).

Wilson, J. T. 2. On the fate of the "tænia elino-orbitalis" (Gaupp) in *Echidna* and *Ornithorhynchus* respectively. J. Anat. Physiol., London, **40**, 1906, (85-90).

Winge, Herluf. Jordfundne og nulevende Hovdyr (*Ungulata*) fra Lagoa Santa, Minas Geraes, Brasilien. [Extinct and living Ungulates from Lagoa Santa]. Kjöbenhavn, E. Museo Lundii, **30**, 1906, (1-239, 8 pls.).

Winge, Herluf *vide* Hartz, N.

Woestyn, H. R. Les armures d'Animaux. Naturaliste, Paris, **28**, 1906, (129-130).

Worthmann, Fritz. Beiträge zur Kenntnis der Nervenausbreitung in Clitoris und Vagina. Arch. mikr. Anat., Bonn, **68**, 1906, (122-136, 2 Taf.).

Wortman, J. C. A new fossil Seal from the Marine Miocene of the Oregon Coast Region. Science, New York, N.Y., ser. 2, **24**, 1906, (89-92).

Wrangel, C. G. Graf. Die Rassen des Pferdes. Ihre Entstehung, geschichtliche Entwicklung und charakteristischen Kennzeichen. Lfg 1. Stuttgart (Schickhardt & Ebner), [1906], (1-80). 25 cm.

Wroughton, R. C. 1. On some Mammals collected by Mr. Robin Kemp in S. Nigeria. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (375-379).

Wroughton, R. C. 2. Notes on the genus *Tatera*, with descriptions of new species. Ann. Mag. Nat. Hist., London, ser. 7, **17**, 1906, (474-499).

Wroughton, R. C. 3. Notes on the genus *Otomys*. Ann. Mag. Nat. Hist., London, ser. 7, **18**, 1906, (264-278).

(**Wroughton, R. C.** 4 "The" Common Striped Palm-Squirrel. Bombay, J. Nat. Hist. Soc., **16**, 1905, (406-413, pl.).)

Wroughton, R. C. *vide* Annandale, Nelson.

[**Wrublewski, C.**] К. Врублевский. Туръ (*Bos primigenius* Bojan.) и его потомки живущие в настоящее время. Краиническія изслѣдованія. [*Bos primigenius* et ses descendants vivants à présent. Etudes crâniologiques.] St. Peterburg, Ann. Mus. zool. Ac. Sc., **10**, 1905, [1906], (82-118, figg.).

Zaluska, Jan. *vide* Bikeles, Gustav.

Zell, Th. Ein Viertelstündchen bei Missie [*Troglodytes niger* ♀]. Kosmos, Stuttgart, **3**, 1906, (5-8).

Zietz, A. A note on some modifications in the morphological structure of the Mammalian vertebræ. Adelaide, S. Austr., Trans. R. Soc., **30**, 1906, (325).

Zietzschmann, Otto. 1. Ueber die acidophilen Leukocyten (Körnerzellen) des Pferdes. Intern. Monatschr. Anat., Leipzig, **22**, 1905, (1-89, 1 Taf.).

Zietzschmann, O. 2. Vergleichend histologische Untersuchungen über den Bau der Augenlider der Haussäugetiere. Graefes Arch. Ophthalm., Leipzig, **58**, 1904, (61-122, 2 Taf.).

Zietzschmann, O. 3. Zur Frage des Vorkommens eines Tarsus im Lide der Haussäugetiere. Graefes Arch. Ophthalm., Leipzig, **59**, 1904, (166-170).

Zimmermann, Ágoston. A juhok körömcsovérol. [Über den Klauenschlauch der Schafe.] Pótf. Termt. Közl., Budapest, **38**, 1906 (137-140, Fig.).

Zimmermann, K. Der Siebenschläfer (*Myoxus glis*) im Königreich Sachsen. Zool. Beob., Frankfurt a. M., **47**, 1906, (311-314).

Zollz, Z. et Acuna. Les leucocytes du sang chez les embryons des Mammifères. Paris, Arch. anat. microsc., **7**, 1904, (257-269).

Zuckerkindl, E[mil]. 1. Ueber die Ohrtrumpete des Ameisenfressers. Monatschr. Ohrenheilk., Berlin, **38**, 1904, (1-7).

Zuckerkindl, E. 2. Ueber die palmaren Tastballen von *Myopotamus coypus*. Zs. Morph., Stuttgart, **10**, 1906, (98-105, 1 pl.).

Zürn, Ernst S. Die Hausziege . . . , ihre Naturgeschichte, Geschichte, Rassen, Schläge, Nutzverwertung, Haltung, Pflege, Fütterung und Zucht. 2. Aufl. Leipzig (R. Schmidt & Co.), 1906, (iv + 72).

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†France, Glutten in a cave; **Hamy**, 4.

France (S.), new race of Hare; **Hilzheimer**, 1.

†France, Mammoth and Roebuck, Pleistocene of Aa Valley; **Pontier**, 1.

†French caverns, Lion and other *Felidae*; **Boule**.

Pyrenees, new race of Hare; **Hilzheimer**, 1.

†Vaucluse (Constat), Tertiary Mammals; **Joleaud**.

(**Daleau**. La *Genetta vulgaris* dans le département de la Gironde.)

†Nîmes, Tertiary Mammals; **Roman**.

Charente-Inférieure, etc., Mammals; **Granger**.

†Yonne, caverns; **Parat**.

Normandy (Orne), exterminated Mammals; **Letacq**.

Spain. dj

Spain, new Bat (*Myotis bechsteini faronicus*); **Thomas**, 24.

†Spain, fossil Mammals; **Depéret**; **Vidal** and **Depéret**; **Jiménez**, 3.

Spain, *Microtus cuberæ* sp. n.; **Thomas**, 21.

Italy, Sardinia. db

†Italy, fossil Rhinoceroses; **Sacco**.

Calabria, *Erotomys nageri hallucalis*; **Thomas**, 24.

Calabria, Mammals; **Lucifero**.

Ischia, stranded Spermin-whale; **Monticelli**.

†Italy, *Idiocetus*; **Capellini**.

†Astigiani, Rhinoceroses; **Sacco**.

Italian coast, *Grampus griseus*; **Carucio**.

Sardinia, Mammals; **Simroth**.

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Bernese Alps, new race of Hare; **Hilzheimer**.

Alps, Ibex; **Camerano**.

†Alps, Pleistocene Mammals; **Bächler**.

Switzerland, Wolf; **Bretscher**.

Austria-Hungary. dk

†Austria, fossil Mammals; **Hofmann**.

†Hungary, Reindeer remains, Krain; **Hilber**.

†Hungary, Pliocene Mammals; **Lörenthey**; Pleistocene; **Güll**.

Hungary, Mammals; **Korljević**.

Hungary, *Phinolophus blasii*; **Földváy**.

†Hungary, Vertebrates; **Horusitzky**.

†Hungary, Diluvial Man; **Gorjanović-Kramberger, 3.**

Hungary, various Mammals; **Endrey, 1.**

†Ochos, Pleistocene Mammals; **Makowsky.**

†Croatia, Pleistocene Mammals; **Gorjanović-Kramberger, 2.**

†Leoben, Tertiary Vertebrata; **Redlich.**

Balkan Peninsula. *dl*

Bulgaria, new *Spalax*; **Kowatscheff, 1**; Mammals; **Kowatscheff, 2.**

[†Samos, Tertiary Rhinoceroses of, including new species of *Aceratherium*; **Weber.**]

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Crete, Mammals; **Bate,**

†Cyprus, fossil hippopotamus; **Bate, 1.**

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Kotlin Island and its climatic influences; **Bogoljubov.**

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Asia, new Bat (*Kerivoula*), Dormouse (*Eliomys*), and Hare (*Lepus*); **Thomas, 18.**

Asia, species of *Tatera* (*Gerbillus*); **Wroughton, 2.**

South-east Asia, Bats of genus *Hipposiderus* (*H. armiger debilis*, subsp. n.); **Andersen, 3.**

Persia and Armenia, Mammals; **Thomas, 3.**

Maldives and Laccadives, Mammals; **Gardiner.**

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Kamchatka, Mammals; **Tuchoff.**

Siberia, N., new Squirrel; **Trouesart, 9.**

West Siberia and Turkestan, *Chiroptera* and *Insectivora*; **Kaščenko.**

Central Asia, races of *Capra sibirica*; **Lorenz, 3.**

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Thian Shan, new *Capreolus*; **Satunin, 3.**

Thian Shan, new Ibex; **Leisewitz.**

Thian Shan, Voles (2 new); **Miller, 1.**

Tibet, Mammals; **Bonhote, 3.**

Tibet, race of Bruang; **Lydekker, 18.**

Korea and Quelpart, list; **Thomas, 11.**

China, *Nemorhaedus argyrochaetes*, described and figured; **Lydekker, 15.**

China, Mammals; **Hilzheimer, 3.**

China, *Murinae*; **Bonhote, 4.**

Hainan, new Mammals; **Allen, J. A., 2.**

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Japan, Mammals; **Thomas, 2.**

Liu Kiu Islands, *Lenothrix* sp. n.; **Thomas, 14.**

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Tonkin, *Paradoxurus larratus* and *Felis temminckii*; **Ménégaux, 2.**

Indo-China, Mammals; **Pousargues.**

Annam, new (?) Mammal; **Brébion.**

Indo-Chine, Bovins de; **Dechambre.**

Indo-Malaya, Macaque Monkeys; **Miller, 10.**

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Andamans, new Bat *Rhinolophus cognatus*; **Andersen, 2.**

Burma, notes on, *Urotragus evansi*; **Evans, 1.**

Burma, new Squirrel; **Bonhote, 2.**

Shan States, new Bear; **Thomas, 5.**

India, South, Mammals of a desert tract; **Annandale, 2** (**Wroughton**).

Calcutta, *Muridæ*; **Hossack**.

Himalaya, *Pterygistes* sp. n.; **Barrett-Hamilton, 1**,

Sikhim and Bhutan, *Cervus affinis*; **Lydekker, 10**.

Darjiling district, Mammals; **Dalgliesh, 2**.

Kashmir, notes on small Mammals; **Ward, A. E.**

Rhinoceroses in Burma; **Evans, 3**.

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Malaya, new Pigmy Squirrels; **Lyon, 1**.

Malaya, new Bats; **Miller, 8**.

Malaya, new Slow Lemurs (*Nycticebus*); **Lyon, 4**.

Malaya, Pigs, new species; **Miller, 11**.

Malay Peninsula, new Carnivora, *Aretogalidia major* and *Paradoxurus robustus*; **Miller, 4**.

Johore and Singapore, Mammals; **Bonhote, 5**.

Rhio Linga Archip., Mammals; **Miller, 14**.

Sumatra, notes on *Sus oi*; **Kloss**.

[Sumatra, new genus of Bat, *Phoniscus atrox*; **Miller, 3**.]

Sumatra, new *Felis*; **Hilzheimer, 2**.

Sumatra, new *Presbytis*; **Elliot, 3**.

Banka, Mendanau, and Billiton Ids., new Mammals; **Lyon, 6**.

Nias and Engano Islands, Bats (*Rhinolophus*); **Andersen, 1**.

Engano Id., W. Sumatra, Mammals; **Miller, 12**.

[Dutch East Indies, Mammals; **Tjeenk-Willink**.]

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†Celebes, Pleistocene Mammals; **Sarasin**.

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Arabia, two new subspecies of Gazelle; **Neumann**.

Trebizond, new *Insectivora* and *Muridae*; **Thomas, 19**.

Trebizond, new Dormouse, *Glis glis spoliatus*; **Thomas, 24**.

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†Distributional features of fossil fauna; **Stromer, 2**.

Mogador, Mammals, with 6 new species and subspecies; **Cabrera, 2**.

†Egypt (Fayum), Tertiary Mammals; **Andrews**.

Egypt, the Hare in ancient painting; **Boussac, 1**.

Egypt, Mummified Shrew-mice; **Gaillard**.

Africa, the species of *Cereocbus*, two new; **Pocock, 1**.

Africa, *Tatera* (*Gerbillus*); **Wroughton, 2**.

Hipposiderus, several new; **Andersen, 3**.

New Bat and Rodents; **Thomas, 26**.

New Buffaloes; **Matschie, 5**.

New Galago; **Matschie, 8**.

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Revision of *Otomys*, spp. n.; **Wroughton, 3**.

New Antelopes; **Neumann**.

Grey Jackals, spp. n.; **Hilzheimer, 6**.

N.E. Africa, new genus of Bat, *Platymops*; **Thomas, 20**.

N.E. Africa, 2 new Carnivores and 6 Rodents; **Thomas, 27**.

N.E. Africa, new Jackals; **Lorenz, 2**.

Central Africa, Great Game; **Stigand and Lyell**.

Central Africa, distribution of Okapi; **Lönnberg, 5**.

Central Africa, *Mellivora* and *Dorcatherium* spp. n.; **Lydekker, 16**.

- White Nile, Fashoda, new Gazelle; **Lorenz, 1.**
- Bahr-el-Ghazal, new Antelope; **Lydekker, 9.**
- [Bahr-el-Ghazal, Okapi in 1898; **Ménégaux, 1.**]
- Gondokoro district, new Hyrax; **Sassi.**
- Albert Nyanza, new Elephant; **Lydekker, 3.**
- Nigeria, S., Mammals, including new *Muridae*; **Wroughton, 1.**
- Muni, W. Africa, name of Chimpanzee; **Cabrera, 1.**
- Liberia, list; **Johnston.**
- Cameroons, new Ant-bear; **Hirst.**
- Cameroons, *Hylochoerus* sp. n.; **Thomas, 4.**
- Cameroons, *Gorilla jacobi* sp. n.; **Matschie, 9.**
- Congoland, N., new Ant-bear; **Lönnberg, 1.**
- Congo Territory, new Elephant; **Noack.**
- Stanley Falls, new Squirrel; **Jentink, 1.**
- Mundami, Central Africa, new *Papio*; **Hilzheimer, 2.**
- Ituri Forest, new Forest-Hog; **Matschie, 2.**
- Ituri Forest, new *Cephalophus*; **Rothschild and Neuville.**
- Ituri Forest and Semliki, new Mammals; **Lydekker, 17.**
- Semliki Forest, new Pigmy Antelope; **Thomas, 23.**
- Nandi Forest, *Hylochoerus meinertzhageni*; **Rothschild, Baron M. de and Neuville, 2.**
- Equatorial Africa, notes on Anthropoid Apes; **Rothschild, W., 2.**
- Ruwenzori, new Mammals; **Thomas, 22.**
- Ruwenzori, new race of Leopard; **Camerano, 3.**
- [German East Africa, *Lavia rex* sp. n.; **Miller, 2.**]
- British E. Africa, new genus of Shrew, *Surdisorax*, and Mouse, *Myiomys*; **Thomas, 25.**
- British East Africa, new Eland; **Lydekker, 8.**
- British E. Africa and Uganda, Elephants; **Schütze.**
- Portuguese E. Africa, new Antelope; **Rothschild, W., 5.**
- Nyasaland, Blantyre district, new Duikerbok; **Thomas, 6.**
- West Africa; **Maclaud.**
- (**Thomas, O. et Trouessart, E.** *Rongeurs de Tunisie, (171-174).*)
- (**Rothschild, M.** *Exploration de l'Afrique orientale.*)
- Rhodesia, N.E., new Antelope; **Jentink, 2.**
- Rhodesia, N.E., new Zebra; **Rothschild, W., 4.**
- †Barkley West, S. Africa, *Mastodon* tooth; **Beck.**
- Bechuanaland, Mammals; **Schwann.**
- Transvaal, N.E., new Mammals; **Thomas and Schwann, 2.**
- Cape Colony (Knysna), Mammals; **Thomas and Schwann, 1.**
- Africa and Madagascar, new Mammals; **Trouessart, 10; Thomas, 15.**
- Madagascar, Fossa; **Künstler and Chaine, 3.**
- [Madagascar, new *Microgale*; **Elliot, 2.**]
- †Madagascar, extinct fauna; **Lemoine, 2.**
- †(**Grandidier, G.** *Recherches sur les Lémuriens disparus.*)
- North America.**
- Alaska, *Microtus elymocetes* nov.; **Osgood, 2.**
- Alaska, Reindeer; **Jackson.**
- New Brunswick, Grand Manan Id., Mammals, including *Peromyscus*; **Cope-land and Church.**
- Newfoundland, sealing 1906; **Southwell, 3.**
- British Columbia, big game; **Osborn, 2.**
- Brit. Columbia, Mammals; **Spreadborough.**

Anticosti Id., Gulf of St. Lawrence, list; **Schmitt**.

†United States, *Chrysochloridae*; **Matthew, 2**.

Northern coast, Sowerby's Whale; **Allen, G. M., 2**.

†United States, *Primates* from Wasatch and Wind River beds; **Loomis**.

United States, Skunks of genus *Spilogale*, 2 new; **Howell**.

Colorado, Mammals; **Warren**.

[†Montana, Creodonts and Monotreme (?); **Douglass, 2**.]

†Montana, Puerco Mammals of Fort Union; **Douglass, 3**.

[Adirondacks, Mammals; **Grant**.]

†Oregon, new Seal; **Condon**.

†Nebraska and Wyoming, Miocene Mammals; **Peterson, 2, 3**.

†Nebraska, new Miocene *Rhinoceros*; **Barbour**.

Nebraska, Miocene *Rhinoceros*; **Oliver**.

†Nebraska, Miocene, *Thinohyus* sp. n.; **Peterson, 3**.

Texas, *Peromyscus* subsp. n.; **Bailey, 2**.

†Oregon, new Miocene Seal; **Wortman**.

†Oregon, Horse, gen. n.; **Gidley, 4**.

Idaho, Moose; **Brooks**.

†Maryland, *Proboscidea*; **Lucas, 2**.

†Maryland, new Miocene Seal; **True**.

†Maryland, Pleistocene Mammalia; **Lucas, 1**.

†Virginia, new Miocene Walrus; **Berry and Gregory**.

Dakota, *Eutamias* subsp. n.; **Cary**.

†Dakota, South, new Miocene *Equidae*; **Matthew and Gidley**.

†New Mexico, new Ruminant; **Gidley, 2**.

[New Mexico and Arizona, Prehistoric Mammals; **Lyon, 7**.

†John Day Miocene, *Carnivora*; **Merriam, 3**.

Michigan, Mammals; **Adams**.

Ohio, Mammals; **Hine, 1**.

Ohio, exterminated Mammals; **Moseley**.

†Ohio, Edentate-like remains; **Sinclair, 1**.

†California, new Pleistocene Raccoon; **Gidley, 1**.

†California, exploration of Samwel Cave, Mammals list; **Furlong**.

California, Mammals; **Stephens**.

†California, Pleistocene Mammals; **Merriam, 2**.

Arizona, *Choeronycteris mexicana*; **Miller, 15**.

Florida, *Monachus tropicalis*; **Townsend**.

Central and South America. h Antilles.

Mexico, new *Dermoptera*; **Elliot, 1**.

Sinaloa and Jalisco, Mammals; **Allen, J. A., 1**.

Central America, new *Myrmecophaga*; **Lyon, 5**.

Yucatan, Mammals; **Allen, G. M., 1**.

Costa Rica, *Muridae*, gen. n.; **Thomas, 19**.

Pearl Islands, Mammals; **Bangs, 1**.

Panama, Mammals of the Savanna; **Bangs, 2**.

[San Domingo, new *Phyllonycteris*; **Elliot, 1**.]

Darien and Ecuador, Bats; **Festa**.

Ecuador, *Muridae* gen. n.; **Thomas, 13**.

Ecuador, *Speothos* sp. n.; **Trouessart, 6**.

[South America, Armadillo, new; **Grandidier and Neveu-Lemaire**.]

Tropical America, new *Stenoderma* Bats; **Andersen, 6**.

South America, synopsis of Bats, *Micronycteris* and *Glyphonnycteris*; **Andersen, 5**.

South America, Rodents; **Thomas, 28**.

South America, *Dolichotis*, species of; **Loder**.

Quito, new *Canis*; **Hilzheimer, 2.**

Surinam, Bat gen. n.; **Miller, 7.**

Brazil, Itatiaya, Mammals; **Ribeiro.**

†Lagoa Santa, Ungulates; **Winge.**

†Argentina, *Pseudolestodon* sp. n.; **Rautenberg.**

†Patagonia; **Ameghino**; **Gaudry, 2, Osborn, 1.**

†Patagonia, Tertiary Marsupials and Marsupial-like Carnivores; **Sinclair, 2.**

Australasia and Southern Ocean. *i*

New Guinea, *Rhinolophus* sp. n.; **Andersen, 2.**

North Australia, including new Bat, Mouse, and Marsupials; **Thomas, 9.**

West Australia, Mammals; **Thomas, 10.**

Australasia, new Rodents and Marsupials; **Thomas, 12.**

Australia, Mammals of Lake Eyre district; **Gregory.**

South-East Australia, list inclusive of two new Bats and an *Echidna*; **Thomas, 7.**

†Australia, King Id., *Macropus* and *Procoptodon*; **Scott, 1, 2.**

Säuger Neu-Pommerns; **Meyer, W.**

Laysan, Id., *Monachus* sp. n.; **Matschie, 6.**

South Georgia, Pinnipeds and Cetaceans; **Lönnberg, 2.**

Antarctica, Seals; **Andersson.**

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Madeira, *Pterygistes* sp. n.; **Barrett-Hamilton 1.**

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PRIMATES.

Creases in skin of hand and foot; **HEIDENHAIN**, Anat. Hefte, Wiesbaden, Abt. 1, **30**, (419).—Papillary ridges,

KOLOSSOFF and **PUNKUL**, Morph. Jahrb., Leipzig, **35**, (696).—Jaw-muscles; **RIEGNER** Arch. Anat. Physiol., Leipzig, Anat. Abth. (109).—Form of stomach, **CUNNINGHAM**, Edinburgh, Trans. Roy. Soc., **45**, (9).—Liver; **RUGE**, Morph. Jahrb., Leipzig, **35**, (75), and **36**, (93).—Colon, **LOGHEM**, Over h. colon en mesocolon der Primaten, Haarlem, 1903. Gestation, etc., **POCOCK**, London, Proc. Zool. Soc. **1906** (558). Femoral artery, **BLUNTSCHLI**, Morph. Jahrb., Leipzig, **36**, (276). Dentition, **BOLK**, Petrus Camper, Bijdr. Anat., Haarlem, **4**, (103), Amsterdam, Versl. bis. Nat. Afd. K. Akad. Wet., **14**, (751), and Amsterdam, Proc. Sci. K. Akad. Wet., **8**, (781). Knee-joint, **WESTRIENEN**, Petrus Camper, Bijdr. Anat., Haarlem, **4**, (1).—Mechanics of skeleton, *vide* **GORJANOVIĆ-KRAMBERGER**, I.—Cranial form, **FRASSETTO**, Roma, Atti Soc. romana antrop. **10**, 1904, (43).—Cranial sutures, **SCHWALBE**, T.c. (151–181). Blood of Apes, **CHIO**, Torino, Atti. Acc. sc., **41**, 1905–6 (1093); Variation in dental formula, **KÜNSTLER** and **CHAIÑE**, Paris, C.-R. soc. biol., **60**, (99), and Réunion biol. Bordeaux, **1906**, (3).

Embryos, **KEIBEL**, In Studien über Entwicklungsgesch. d. Tiere, hrsg. v. **Selenka**, H. 14 = Menschenaffen. Wiesbaden, 1906 (553).

Vermiform appendix; **WEINBERG**, Paris, C.-R. soc. biol., **60**, (844), **TROUESSART**, T.c. (845); brain, *vide* **Retzius**; Sinus-hairs, **FRÉDÉRIC**, Zs. Morph., Stuttgart, **9**, (327).

A.—Anthropoidea.

HOMINIDAE.

Anthropoid apes, Man's nearest kin, **CARUS**, The Open Court, Chicago, Ill., **20**, (6–25).

Homo, variation in mandibular articulation; **LUBOSCH**, Morph. Jahrb., Leipzig, **35**, (322).—Two cases of presence of an intermetatarsal, **GRÜBER**, Morph. Jahrb., Leipzig, **36**, (82).—*H. primigenius* (*krapinensis*)† in Croatia, **GORJANOVIĆ-KRAMBERGER**, Földt. Közl., **36**, (241); and **KADIĆ**, *ibid.*, **27**, (117, 259).—*H. pampeanus* sp. n., Pliocene, Argentina, **AMEGHINO**, An. Mus. Nac., Buenos Aires, **15**, (449).

SIMIIDAE.

Notes on *Simiidae*; MITCHELL, London, Proc. R. Inst., **17**, (547).

Nomenclature; ROTHSCHILD, W. Berlin, SitzBer. Ges. natf. Freunde, **1906**, (85).

"Singe chaussé," HAMY, Nature, Paris, **1906**, (113).

Chimpanzee "Consul"; GUIART, Paris, Bul. soc. zool., **28**, 1903, (189).

Anthropopithecus tsehego and *Troglo-dytes aubryi*, synonymy; CABRERA, Madrid, Bol. Soc. esp. Hist. Nat., **6**, (183).

Anthropopithecus gorilla, young figured; MITCHELL, London, Proc. Zool. Soc. **1906**, pl. lxiii, 1907.

Gorilla and *Simia* (= *Anthropopithecus*), notes on races and species; ROTHSCHILD, W. London, Proc. Zool. Soc., **1906**, (465-468).—*Gorilla*, nomenclature of species and subspecies; ROTHSCHILD, W., C.-R. Internat. Zool. Congress, 1904, (85).—*G. jacobii* sp.n. Cameroons, MATSCHIE, Berlin, SitzBer. Ges. Natf. Freunde, **1906**, (282).

Beitrag zur Biologie des Gorilla, GRABOWSKY, Jenaische Zs. Natw., **41**, (608-611, 1 Taf.).

Hylobates, cerebral sulci; SERGI, Roma, Ric. Lab. anat. norm., **10**, 1904, (189).

"*Satyrus indicus*," old picture; SCHERREN, London, Proc. Zool. Soc., **1905**, 2, (298-302).

Simia satyrus, craniology and dentition, HRDLÍČKA, Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **31**, (539).—*S. satyrus*, taste-papillæ, STAHR, Zs. Morph., Stuttgart, **9**, (344).—*S. satyrus*, in captivity; AGGAZZOTTI, Umschau, Frankfurt a. M., **10**, (441-446).

Troglo-dytes niger, notes on captive specimen; ZELL, Kosmos, Stuttgart, **3**, (5-8).

CERCOPITHECIDAE.

Cercocebus, species of (279).—*C. ham-lyni*, Up. Congo (208), *jamvachi*, Lake Mweru (454), sp.n.; Pocock, Ann. Mag. Nat. Hist., London, ser. 7, **18**.—*C. sp.* additional molar, VRAM, Roma, Atti Soc. romana antrop., **11**, 1905, (47).

Cercopithecus patas, abnormality in teeth, HOLDING, London, Proc. Zool. Soc., **1906**, (233).—*C. patas sannio*, subsp. n., Lake Chad; THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **17**, (173).—*C. thomasi*, Congoland (262), *kandti* Lake Kivu district (264), *neumannii* North Kavirondo (266), sp.n., MATSCHIE, Berlin, SitzBer. Ges. natf. Freunde, **1906**.

Colobus caudatus and allied species, colour-evolution in; LYDEKKER, London, Proc. Zool. Soc., **1905**, 2, (311).—*C. oustaleti* Youmba (444), *nigrimanus*, Liranga Congo (445); sp.n.; TROUES-SART, Bul. Muséum, Paris, **1906**.

Erythrocebus baumstarki Ihoma (273), *zechi* Togo (274), *kerstingi* Togo (274), *laugheldi* Kamerun (276), MATSCHIE, Berlin, SitzBer. Ges. natf. Freunde, **1906**, sp.n.

Macaca broca Borneo (558), *adusta* Malay Peninsula (559), *insulana* Chaneï Id. Mergui (560); MILLER, Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **29**, sp.n.

Macacus sinicus, lumbo-sacral cord; FITZGERALD, London, Proc. R. Soc., B, **78**, (88).

Papio mundamensis sp.n. Mundame; HILZHEIMER, Zool. Anz., Leipzig, **30**, (109).

Presbytis cana Pulo Kundur; MILLER, Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **31**, (275).—*P. carimatae* Karimata Id.; MILLER, (65), T.c.—*P. fusecomurina* Sumatra; ELLIOT, Washington, D.C., Proc. Biol. Soc., **19**, (49), sp.n.

B.—Lemuroidea.

(Recherches sur les Lémuriens disparus, GRANDIDIER, G., Nouv. Arch. Muséum, Paris, sér. 4, **7**, 1905, (1-144, av. pl.).)

†Of N. American Eocene; LOOMIS, Amer. J. Sci., New Haven, Conn., ser. 4, **21**, (277).

Ear of Malagasy and extinct European forms; TROUES-SART, Paris, C.-R. soc. biol., **61**, (712).

†*Adapis*, brain, NEUMAYER, N. Jahrb. Min., Stuttgart, **1906**, 2, (100).

†*Anaptomorphus abbotti, minimus* spp. n., Eocene, Wyoming. LOOMIS, Amer. J. Sci., New Haven, Conn., ser. 4, **21**, (278).

Lemur catta, mode of carrying young; Pocock, London, Proc. Zool. Soc., **1906**, (124).

Nycticebus tardigradus, four mammae in; ANNANDALE, Spolia Zeylanica, Colombo, **3**, (196).

†*Notharellus minutus, palmeri* (283), *cingulatus* (284), spp. n., Eocene, Wyoming; LOOMIS, Amer. J. Sci., New Haven, Conn., ser. 4, **21**.

Nycticebus borneanus. Borneo (535), *baneanus*, Banka I. (536), spp. n., LYON, Washington, D.C., Smithsonian Inst. Nation. Mus. Proc. **31**.

Otolemur badius sp. n., German E. Africa; MATSCHKE, Berlin, SitzBer. Ges. natf. Freunde, **1906**, (277).

CHIROPTERA.

Notes on; PROGER, Cardiff, Trans. Nat. Hist. Soc., **38**, 1905, (69).—Senses and flight; WHITTAKER, Naturalist, London, **1906**, (145, 349, 379).

Of W. Siberia and Turkestan; KAŠ-ČENKO, Tomsk, Rec. Tomsk Univ., 1905, (xvi + 102 c).

Of Berkshire; COCKS, Zoologist, London, Ser. 4, **10**, (185); of Darien and Ecuador; FESTA, Torino, Boll. Musei Zool. anat., **21**, No. 524 (1); Ovum; VAN DER STRICHT, Jena, Verh. Anat. Ges. neunzehnte Versammlung in Genf, 1905, (1); C.-R. Ass. anat. (Bordeaux), **1906**, (1).

Orientation; NICOLLE & COMTE, Paris, C.-R. soc. biol., **60**, (738).

PTEROPODIDAE.

Pteropus enganus sp. n. Engano Id.; MILLER, Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **30**, (823)—*P. baveanus* Bavian Id. (63), *niadicus* Nias Id. Sumatra (64), spp. n.; MILLER, Washington, D.C., Proc. Biol. Soc., **19**.

Cynocephalus princeps Sumatra (61), *major* (62), Nias Id, *pagensis* Pagi Id. Sumatra (62), *minutus* Nias Id. (63), spp. n.; MILLER, T.c.

Nadius gen. n. for *Cynocephalus princeps* Miller; MILLER, Washington, D.C., Proc. Biol. Soc., **19**, (83).

Sphaerias gen. n. for *Cynocephalus blanfordi* Thomas; MILLER, l.c.

Roussettus lanosus sp. n. Mt. Ruwenzori; THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **18**, (137).

RHINOLOPHIDAE.

Hipposiderus, Oriental and African forms; ANDERSEN, Ann. Mag. Nat. Hist., London, ser. 7, **17**, (35, 269)—*H. tephros* sp. n. Mogador; CABRERA, Madrid, Bol. Soc. esp. Hist. Nat., **6**, (358).—*H. poutensis* sp. n. Hainan; ALLEN, J. A., New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, (183).—*H. armiger debilis*, Malay Peninsula (37), *gigas gambiensis* Gambia (12), *caffer centralis* (277), *c. guineensis* Guinea (278), subspp. n. *H. beatus*, sp. n., Benito R. (280); ANDERSEN, Ann. Mag. Nat. Hist., London, ser. 7, **17**.

Rhinolophus ferrum-equinum in caves in Somerset; LEWIS, Zoologist, London, ser. 4, **10**, (69).—*R. blasii* in Hungary; FÖLDVÁRY, Állatt. Közlem., Budapest, **5**, (140).—*R. hipposiderus*, habits; COWARD, London, Proc. Zool. Soc., **1906**, (849), 1907.—*R. minutellus*, nom. n. for *minutus* Miller, nec *V. minutus* Montagu; MILLER, Washington, D.C., Proc. Biol. Soc., **19**, (41).—*R.* various species re-described (173), *fallax* Brit. New Guinea (173), *coynatus* Andamans (181), spp. n.; ANDERSEN, Genova, Ann. Museo Civ. st. nat., ser. 3, **2**.—*R. hainanus* sp. n. Hainan; ALLEN, J. A., New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, (182)—*R. eivae* sp. n. (657), *R. trifolius niasensis* subsp. n. (658), Nias Id.; ANDERSEN, Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **29**.

Tricynops fureulus sp. n. W. Madagascar; TROUESSART, Bul. Muséum Paris, **1906**, (146).

NYCTERIDAE.

Tarvia [= *Megaderma*] *rex* sp. n. German E. Africa; MILLER, Washington, D.C., Proc. Biol. Soc., **18**, 1905, (227).

Macroderma **gen. n.** for *Megaderma gigas* Dobson; MILLER, Washington, D.C., Proc. Biol. Soc., **19**, (81).

Megaderma carinatae **sp. n.** Karimata Id.; MILLER, Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **31**, (63).

VESPERTILIONIDAE.

Beodon **gen. n.** for *Rhogëssa allenii* Thomas; MILLER, Washington, D.C., Proc. Biol. Soc., **19**, (85).

Harpiocephalus leucogaster sibiricus **subsp. n.** W. Siberia; KAŠČENKO, Tomsk, Rec. Tomsk. Univ., 1905, (102^b).

Kerivoula muscilla **sp. n.** S. Cameroons; THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **18**, (294).—*K. depressa* **sp. n.**, S. Burma; MILLER, Washington, D.C., Proc. Biol. Soc., **19**, (64).—*K. cugana* **sp. n.** Engano Id.; MILLER, Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **30**, (825).—*K. picta bellissima* **subsp. n.** S. China; THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **17**, (423).

Miniopterus schreibersi japoniae **subsp. n.**; THOMAS, London, Proc. Zool. Soc., **1905**, 2, (338).—*M. fraterculus* **sp. n.** Cape Colony; THOMAS and SCHWANN, *op. cit.* **1906**, (162).—*M. majori*, (175), *manari*, (176), Madagascar, **spp. n.**; THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **17**.

Myotis bechsteini in Berks; COCKS, Zoologist, London, ser. 4, **10**, (185).—*M. nattereri* in Somersetshire; READ, T.c. (312).—*M. mystacinus* in Denbigh; OLDHAM, T.c. (70).—*Myotis nattereri bombinus* **subsp. n.** Japan; THOMAS, London, Proc. Zool. Soc., **1905**, 2, (337).—*M. myotis omari* **subsp. n.** Persia; THOMAS, T.c. (521).—*M. bechsteini favonicus* **subsp. n.** Central Spain; THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **18**, (220).—*M. carinatae* **sp. n.** Karimata Id.; MILLER, Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **31**, (62).

Odontonycteris meyeri, a second specimen, from Cagayan Sulu; MILLER, Washington, D.C., Proc. Biol. Soc., **18**, 1905, (253).

Phoniscus **gen. n.**, *atrox* **sp. n.** Sumatra; MILLER, Washington, D.C., Proc. Biol. Soc., **18**, 1905, (229).

Pipistrellus bactrianus **sp. n.** Transcaspiæ; SATUNIN, Tiflis, Mitt. Kavk. Mus., **2**, 1905, (67, 85).—*P. regulus* **sp. n.** S.E. Australia; THOMAS, London, Proc. Zool. Soc., **1906**, (470).—*P. portensis* **sp. n.** Hainan; ALLEN, J. A., New York, N.Y., Bull. Amer. Mus., **22**, (487).—*P. aladdin*, Persia, described; THOMAS, London, Proc. Zool. Soc., **1905**, 2, (521).

Pizonyx **gen. n.** for *Myotis rivesi*. Menegaux; MILLER, Washington, D.C., Proc. Biol. Soc., **19**, (85).

Pterygistes madeiræ **sp. n.** Madeira; BARRETT-HAMILTON, Ann. Mag. Nat. Hist., London, Ser. 7, **17**, (98).—*P. montanus* **sp. n.** Himalaya; id. T.c. (99).

Rhinoxycteris **gen. n.** for *Glauconycteris floweri* de Winton; MILLER, Washington, D.C., Proc. Biol. Soc., **19**, (85).

Scoteinus balstoni **sp. n.** S.E. Australia; THOMAS, London, Proc. Zool. Soc., **1906**, (472).

Scotophilus nigrita herero **subsp. n.** N. Damaraland (174); *S. damarensis* **sp. n.** N. Damaraland (175); THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **17**.—*S. kuhlii insularis*, *S. castaneus consobrinus* **subsp. n.** Hainan; ALLEN, J. A., New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, (485).

Vespertilio matschici pellucens **subsp. n.** Persia; THOMAS, London, Proc. Zool. Soc., **1905**, 2, (520).

EMBALLONEURIDAE.

Dirias **gen. n.** for *Noctilio albirenter* Spix; MILLER, Washington, D.C., Proc. Biol. Soc., **19**, (84).

Eumops **gen. n.** for *Molossus californicus* Merriam; MILLER, T.c. (85).

Molossus sinaloae **sp. n.** Mexico; ALLEN, J. A., New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, (236).

Myropteryx **gen. n.**, *pullus* **sp. n.** Surinam; MILLER, Washington, D.C., Proc. Biol. Soc., **19**, (59, 60).

Nyctinomus plicatus colonicus **subsp. n.** Australia; THOMAS, London, Proc. Zool. Soc., **1906**, (537).

Platymops **gen. n.**, *macmillani* **sp. n.** N.E. Africa; THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **17**, (499).

Rhinopoma microphyllum, note on; SENNA, Napoli, Annuario Museo zool., ser. 2, **2**, (1).

NATALIDAE.

Photodes **gen. n.** for *Natalus tumidirostris* Miller; MILLER, Washington, D.C., Proc. Biol. Soc., **19**, (85).

PHYLLOSTOMATIDAE.

Ardops **gen. n.** for *Stenoderma nicholsi* Thomas; MILLER, Washington, D.C., Proc. Biol. Soc., **19**, (84).

Artibeus planirostris trinitatis **subsp. n.** Trinidad; *A. p. grenadensis* **subsp. n.** Grenada; *A. hirsutus* **sp. n.** Mexico, (420); *A. jamaicensis equatorialis* **subsp. n.** Ecuador; *A. j. princeps* **subsp. n.** Guadalupe; *A. cinereus bogotensis* **subsp. n.** Bogota, (421); *A. aztecus Morelos, turpis* Tabasco, (422), *nanus* Mexico, (423), **spp. n.**; ANDERSEN, Ann. Mag. Nat. Hist., London, ser. 7, **18**.

Chaeronycteris mexicana in Arizona; MILLER, Washington, D.C., Proc. Biol. Soc., **19**, (96).

Dermoptera jucundum **sp. n.** Mexico; ELLIOT, T.c. (50).

Desmodus rufus, general account; DUGÈS, Mexico, Mem. Soc. Ant. Alzate, **23**, (65).

Dicemus **gen. n.** for *Desmodus youngi* Jentink; MILLER, Washington, D.C., Proc. Biol. Soc., **19**, (84).

Erophylla **gen. n.** for *Phyllonycteris bombifrons* Miller; MILLER, T.c. (84).

Enchisthenes **gen. n.** for *Artibeus harti* Thomas; ANDERSEN, Ann. Mag. Nat. Hist., London, ser. 7, **18**, (419).

Glyphonycteris, synopsis of species; ANDERSEN, T. c. (50).

Ischnoglossa **sp.**, notes on; DUGÈS, Mexico, Mem. Soc. Ant. Alzate, **24**, (117).

Micronycteris, synopsis of species; ANDERSEN, T.c. (50).—*M. microtis*, type specimen; LYON, Ann. Mag. Nat. Hist., London, ser. 7, **18**, (371).

Phyllonycteris sancta-cristobalensis **sp. n.** San Domingo; ELLIOT, Washington, D.C., Proc. Biol. Soc., **18**, 1905, (236).

Phyllostoma verrucosum **sp. n.** Mexico; ELLIOT, T.c. (236).

Uroderma thomasi **sp. n.** Bolivia; ANDERSEN, Ann. Mag. Nat. Hist., London, ser. 7, **18**, (419).

INSECTIVORA.

Insectivora of W. Siberia and Turkestan; KAŠČENKO, Tomsk, Rec. Tomsk Univ., 1905, (xvi + 102e).

GALEOPTHECIDAE.

Colugidae the family name, with the species *Colugo philippinensis* and *Cynocephalus rolans*, replaces *Galeopithecidae* and *Galeopithecus*, MILLER, Washington, D.C., Proc. Biol. Soc., **19**, 1906, (41).

TUPAIIDAE.

Tupaia ferruginea, habits; RIDLEY, Singapore, J. Straits Branch R. Asiatic Soc., **45**, (279).—*T. javanica*, placenta; VAN HERWERDEN, Anat. Hefte, Wiesbaden, Abth., **32**, (155).—*T. carinatae* Karimata Id., MILLER, Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **31**, (62).—*T. modesta* Hainan, ALLEN, J. A., New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, (481).—*T. inflata* (600), *discolor* (602), Banka, LYON, Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **31**, **spp. nn.**

MACROSCOLIDAE.

Elephantulus **gen. n.** for *Macroscelides rupestris*; THOMAS and SCHWANN, London, Proc. Zool. Soc., **1906**, (577).—*E. rupestris myurus* **subsp. n.** N. E. Transvaal; THOMAS and SCHWANN, T.c. (586).

Nasilio **gen. n.** for *Macroscelides brachyrhynchus*; THOMAS and SCHWANN, T.c. (578).

Rhynchocyon stuhlmanni nudicaudata **subsp. n.** Ituri Forest, LYDEKKER, London, Proc. Zool. Soc., **1906**, (995).

TALPIDAE.

Mogera wogura kanai **subsp. n.** Yakushima, THOMAS, London, Proc. Zool. Soc., **1905**, 2, (361).

Talpa europaea, habits in captivity, ADAMS, Manchester, Mem. Lit. Phil. Soc., **50**, No. 9; monstrosity, VAN DEN BROEK, Petrus Camper, Bijdr. Anat., Haarlem, **4**, (195); diurnal habits, LÖNS, Zool. Beob., Frankfurt a. M., **47**, (336); degeneration of eye, ROLLINAT and TROUESSART, Paris, C.-R. Soc. biol., **61**, (602).—*T. caeca*, notes on, CAMERANO, Torino, Boll. Musei zool. anat., **21**, No. 530, (1).—*T. caeca levantis* subsp. n. Trebizond, THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **17**, (416).

(*Talpa romana* e altre forme di talpe europee, CAMERANO, L., Torino, Mem. Acc. sc., ser. 2, **54**, 1904, (81–128, tav.).)

SORICIDAE.

Shrewmice mummified in Egypt, GAILLARD, Paris, C.-R. ass. franç. avanc. sci., **35**, (118).

(Les Soricidés, MANSION, Rev. sci., Paris, sér. 5, **1**, 1904, (169–173).)

Crocidura deserti Bechuanaland, SCHWANN, London, Proc. Zool. Soc., **1906**, (103).—*C. coreae* Korea, THOMAS, T.c. (860).—*C. sylvia* Woodbush N. E. Transvaal, THOMAS and SCHWANN, T.c. (587).—*C. goliath* Cameroons, THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **17**, (177): spp. n.—*C. niobe* sp. n., *C. fumosa montis* subsp. n. Mt. Ruwenzori, THOMAS, Op. cit. **18**, (138).—*C. leucodon lasius* (116), *C. russula monacha* (117), subsp. n. Trebizond, THOMAS, Op. cit. **17**.—*C. dsinezuma chisai* subsp. n. Japan, THOMAS, London, Proc. Zool. Soc., **1905**, 2, (340).

Myosorex blarina sp. n. Mt. Ruwenzori, THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **18**, (139).

Sorex minutus at Great Yarmouth, RUMBELOW, Zoologist, ser. 4, **10**, (429); in Surrey, DALGLEISH, T.c.—*S. araneus borealis* subsp. n. W. Siberia, KAŠČENKO, Tomsk, Rec. Tomsk Univ., **1905**, (85).—*S. shinto*, note on (338), *S. hawkeri* sp. n. Japan (339), THOMAS, London, Proc. Zool. Soc., **1905**, 2.—*S. annexus* sp. n. Korea, THOMAS, op. cit. **1906**, (859).

Surdisorex gen. n., *norae* sp. n. Brit. E. Africa, THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **18**, (223).

Sylvisorex lunaris sp. n. Mt. Ruwenzori, THOMAS, T.c. (139).

(N-9720 f)

ERINACEIDAE.

Erinaceus europaeus, egg-segmentation, KUNSEMÜLLER, Zs. wiss. zool., **85**, (74); uterus, STRAHL, Amsterdam, Proc. Sci. Akad. Wet., **1906**, (812), and Amsterdam, Versl. Wis. Nat. Afd. K. Akad. Wet., **14**, (784).—*E. europaeus nesioles* subsp. n. Crete, BATE, London, Proc. Zool. Soc., **1905**, 2, (316).—*E. albulus turanicus*, subsp. n. Transcaasia, **1905**, (45, 70); *E. europaeus transcaasicus*, Talish, subsp. n. **1906**, (166, 281), SATUNIN, Tiflis, Mitt. Kavk. Mus., **2**.

CENTETIDAE.

Microgale cowani nigrescens subsp. n. Madagascar, ELLIOT, Washington, D.C., Proc. Biol. Soc., **18**, 1905, (237).

CHRYSOCHLORIDAE.

†N. American Tertiary *Chrysochloridae* including *Apternodus* and the under-mentioned *Xenotherium*; MATTHEW, Science, New York, N.Y., **24**, (786).

Chrysochloris: molars not truly tritubercular; GIDLEY, Washington, D.C., Proc. Nation. Acad. Sci., **7**, (91).

† *Xenotherium* gen. n. *unicum* sp. n. Eocene Montana, DOUGLASS, Pittsburg, Mem. Carnegie Mus., **2**, 1905, (204), [referred by describer to *Monotremata*, but by] MATTHEW, Science, New York, N.Y., **24**, (786), to *Chrysochloridae*.

CARNIVORA.

A.—Carnassidentia.

†Fossil of Darmstadt, REICHENAU, Darmstadt, Abh. Geol. Landesanst., **4**, (189).

FELIDAE.

Tubercle in the larger species; GERVAIS and ACHALME, Bul. Muséum, Paris, **1906**, (344), and Paris, C.-R. Acad. sci., **149**, (1296).

Felis deliensis sp. n. Sumatra, HILZHEIMER, Zool. Anz., Leipzig, **30**, (112).—*F. catus*, in N. Germany, LÖNS, Sanct Hubertus, Cöthen, **24**, (471).—*F. catus caucasicus* subsp. n. Transcaasia, SATUNIN, Mitt. Kavk. Mus., **2**, (154,

316).—*F. domestica*, sympathetic nerve, FISCHER, Arch. Thierheilk. Berlin, **32**, (89); abnormal skull, HOLDING, London, Proc. Zool. Soc., **1906**, (574); pancreatic ducts, HEUER, Baltimore, Md., Johns Hopkins Hosp. Bull., **17**, (106); alimentary parasites, LYON, Science, New York, N.Y. **24**, (313); eye, ABELSDORF, Arch. Augenheilk., Wiesbaden, **53**, 1905 (257); monstrosities, RABAUD, Paris, Bul. soc. philom., sér. 9, **7**, 1905 (323); carotids, NORRIS, Des Moines, Proc. Iowa Acad. Sci., **13**, (251).—*F. leo spelaea*, dentition, osteology and distribution, BOULE, Ann. Paléont., Paris, **1**, pt. 2 (1).—*F. leo* and *F. tigris*, hybrids, BOETTGER, Zool. Beob., Frankfurt-a.-M., **47** (246).—*F. tigris*, mode of killing prey, DENNYS, Bombay, J. Nat. Hist. Soc., **17** (245), and SELOUS, T.c. (246).—*F. tigris septentrionalis* nom. (?) n., for *F. t. virgata*, SATUNIN, Priroda i Ochota, 1904, **7**, (5); Mitt. Kavk. Mus., **2**, (308).—*F. pardus*, black phase in captivity, FERRIS, Bombay, J. Nat. Hist. Soc., **17**, (234).—*F. pardus ruwenzorii* subsp. n., Ruwenzori, CAMERANO, Torino, Boll. Musei zool. anat., **21**, No. **545**.—*F. ocreata* in Ireland, SCHARFF, Dublin, Proc. R. Irish Acad., B, **26**, (1).—*F. ocreata agrius* subsp. n. Crete, BATE, London, Proc. Zool. Soc., **1905**, 2 (317).—*F. ocreata mauritanica* subsp. n. Mogador, CABRERA, Madrid, Bol. Soc. esp. Hist. Nat., **6**, (362).—*F. temmincki* in Tonkin, MENEGAUX, Bul. Muséum Paris, **1905** (384).—*F. chrysothrix cottoni* subsp. n. Ituri Forest, LYDEKKER, London, Proc. Zool. Soc., **1906**, (992).—*F. lynx*, bones from Cales Dale, Derbyshire, FOX, T.c. (65-72).

Lynx pardina orientalis subsp. n. Transcaucasia, SATUNIN, Mitt. Kavk. Mus., **2** (165 and 323).—*L.* of the Altai, SATUNIN, Pri. i ochota, Moskva, **1906**, 2-3, (1).

†*Pogonodon darwesi* sp. n. Miocene Oregon, MERRIAM, Berkeley, Univ. Cal. Bull. Dept. Geol., **5**, (33).

VIVERRIDAE.

Aretogalidia fusca sp. n. Pulo Kundur, MILLER, Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **31**, (269).—*A. minor* sp. n. Billiton, LYON,

T.c. (599).—*A. major* sp. n. Malay Peninsula, MILLER, Washington, D.C., Proc. Biol. Soc., **19**, (25).

Cryptoprocta, note on, KÜNSTLER and CHAINE, Bordeaux, Pr.-verb. soc. sci. phys. nat., **1906**, (27).

Cypriettis penicillata intensa subsp. n. Cape Colony, SCHWANN, London, Proc. Zool. Soc., **1906**, (104).

Genetta letabae (578, *ludia* (579), spp. n. Klein Letaba, N.E. Transvaal, THOMAS and SCHWANN, T.c.

Helogale macmillani sp. n. Konso, N.E. Africa, THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **18** (300).—*H. brunnula* sp. n. Klein Letaba, N.E. Transvaal, THOMAS and SCHWANN, London, Proc. Zool. Soc., **1906**, (581).

Herpestes albifer, nom. n., for *H. leucurus*, Hilzh. 1905, nec Ehrenberg, HILZHEIMER, Magdeburg, Abh. Mus. Natk., **1**, (177).

Paradoxurus canescens sp. n. Billiton, LYON, Washington, D.C., Smithsonian Inst., Nat. Mus. Proc., **31**, (597).—*P. brunneipes* sp. n. Pulo Kundur, MILLER, T.c. (269).—*P. robustus* sp. n. Malay Peninsula, MILLER, Washington, D.C., Proc. Biol. Soc., **19**, (26).—*P. larvatus* in Tonkin, MENEGAUX, Bul. Muséum Paris, **1905** (384).

Urva canerivora, note on, KÜNSTLER and CHAINE, Bordeaux, Pr.-verb. soc. sci. phys. nat., **1906**, (37).

CANIDAE.

Notes on *Canidae*; REINHARDT, Bergen, Naturen, **30**, (149).

†*Amphicyon superbus* sp. n. Wyoming-Nebraska Miocene, PETERSON, Pittsburg, Pa., Ann. Carnegie Mus., **4** (51).

Alopedon subgen. n. vide *Canis*.

Angusticeps subgen. n. vide *Canis*.

Canis (*Angusticeps* subg. n.) *reissi* Quito (114), *C. doderleini* Upper Egypt (116), spp. n., HILZHEIMER, Zool. Anz., **30**.—*C. (Alopedon* subgen. n.) *thooides* (364 and 365), *C. lupaster grayi* subsp. n.

(367), *C. studeri* **sp. n.** (368), *C. mengesi lamperti* **subsp. n.** (369), Africa, HILZHEIMER, Zool. Beob., Frankfurt-a-M. **47**, —*C. somaliensis* Somaliland (1), *gallaensis* Gallaland (2), **spp. n.**, LORENZ, Wien, SitzBer. Ak. Wiss., **1906** No. 18. —*C. familiaris*, breeds, WATSON, The Dog Book, London, **1906**; nerves, BIKELES and ZALUSKA, Arch. Ges. Physiol., Bonn, **111**, (376); 6-toed abnormality, TARNANI, Novo-Aleksandrija, Zap. Inst. sel'sk. choz., **18** (106); third eyelid, *vide* ENGELIEN; sexual functions, LOISEL, Paris, C.-R. soc. biol. **60**, (255); abnormal dentition, KÜNSTLER and CHAINE, Bordeaux, Pr. verb. soc. sci. phys. nat., **1906**, (26); milk, WEDEMAYER, Berliner tierärztl. Wochenschr., **1906**, (763); suprarenals, ALEZAIS and PEYRON, Paris, C.-R. soc. biol., **60**, (1161); arteries, SUCHOWŲKIN, Die Arterien und Nerven des Pferdes und die Arterien der Extremitäten des Hundes, (Russ.) Jurjev, **1905**. —*C. lupus*, in Europe, HILZHEIMER, Kosmos, Stuttgart, **3**, (179-180); in Switzerland, BRETSCHER, Zürich, Neu-Jahrbl. natf. Ges. **1906**, (1); in France, PELTIER, Chalon sur-Saône, Bul. soc. sci. nat., **32**, (110); and TURQUAN, Nature, Paris, **34** (322). —*C. aureus* in Dalmatia, PICHLER, Glasnik. Naravosl. druzt., Zagreb **18** (1). —*C. vulpes*, life-history and habits, DALE, The Fox, London, **1906**; TREGARTHEN, The Life Story of a Fox, London, **1906**; BUTOW, Sancti. Hubertus, Cöthen, **24** (213).

†*Cynodictis oregonensis* **sp. n.** Miocene Oregon, MERRIAM, Berkeley, Univ. Cal. Bull. Dept. Geol. **5** (11).

Lupullella, **gen. n.** for *Canis mesomelas*, HILZHEIMER, Zool. Beob. Frankfurt-a-M. **47** (363).

†*Mesocyon brachyops* **sp. n.** Miocene Oregon, MERRIAM, Berkeley, Univ. Cal. Bull. Dept. Geol. **5** (17).

Microcyon **subgen. n.** *vide* *Speothos*.

†*Nothocyon annectans* **sp. n.** Wyoming-Nebraska Miocene, PETERSON, Pittsburg, Pa., Ann. Carnegie Mus., **4**, (53). —*N. geismarianus mollis* **subsp. n.** Miocene Oregon, MERRIAM, Berkeley, Univ. Cal. Bull. Dept. Geol., **5**, (13).

†*Philotrox* **gen. n.**, *condoni* **sp. n.** Miocene Oregon, MERRIAM, T. c. (30).

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Schacffia **gen. n.** for *Canis adustus*, HILZHEIMER, Zool. Beob. Frankfurt-a-M. **47** (364).

Speothos (*Microcyon* **subgen. n.**) *rivetti* Equador **sp. n.**, TROUESSART, (1185), Paris, C.-R. Acad. sci., **143**.

Vulpes alpherakyi Transcaucasia (46, 71), *kurdistanica* Kurdistan (48, 73) **spp. n.**, SATUNIN, Tiflis, Mitt. Kavk. Mus., **2**, 1905. —*V. vulpes waddelli* Tibet, BONHOTE, London, Proc. Zool. Soc., **1905**, **2**, (303).

URSIDAE.

†British Pleistocene, *Ursidae*, REYNOLDS, Mon. Pal. Soc., **1906**.

Ursus aretos shanorum **subsp. n.** Shan States, THOMAS, London, Proc. Zool. Soc., **1906**, (231); †*U. deningeri* **sp. n.** Tertiary Darmstadt, REICHENAU, Darmstadt, Abh. geol. Landesanst., **4**, (208). —*U. malayanus wardi* **subsp. n.** E. Tibet, LYDEKKER, London, Proc. Zool. Soc., **1906**, (999). —*U. aretus*, craniology, RAZEVIK, Psov. i ružeju ochota, Moskva, **1906**, **4**, (102).

MUSTELIDAE.

†*Elurocyon* **gen. n.**, *brevisfacies* **sp. n.** Wyoming-Nebraska Miocene, PETERSON, Pittsburg, Ann. Carnegie Mus., **4**, (68).

Conepatus semistriatus (Boddaert) replaces *C. mapurito*, HOWELL, Washington, D.C., Proc. Biol. Soc., **19**, (45).

Ictonyx capensis replaces *Zorilla striata*, HOWELL, T. c. (46). —*I. capensis shooae* **subsp. n.** Adis Abbaba, THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **18**, (301).

Meles taxus, cry of, MARCHAL, Feuille-jeunes natural., Paris, ser. 4, **35**, 1905, (72). —*Meles meles minor* Transcaucasia (113, 288), *M. m. britannicus*, Gt. Britain (115, 270), **subsp. n.** SATUNIN, Tiflis, Mitt. Kavk. Mus., **2**. —†*M. urartuorum* **sp. n.** Bronze Age, Caucasus, SATUNIN, op. cit., **3**, (5, 27).

Mephitis ollida, note on, ELLIOT, Washington, D.C., Proc. Biol. Soc., **19**, (95). —*M. putida* (Cuvier), the proper name for the Eastern Skunk, HOWELL, Washington, D.C., Proc. Biol. Soc., **19**, (45).

Mustela martes, hyoid, BRAUN, Zool. Anz., **29**, (674); in North of England,

BALDWIN, Naturalist, London, 1906, (221).—*M. erminea*, notes on winter whitening, KÜNSTLER and CHAINE, Naturaliste, Paris, 28, (129).—*M. foetida*, stealing eggs, RASPAIL, Feuille jeunes natural., Paris, sér. 4, 36, (100), BOUVET, T. c. (119); LOMOND, T. c. (119).—*M. americana actiosa*, abnormal pelage, LYON, Science, New York, N.Y., 24, (341).—*M. melampus bedfordi*, Japan, described and figured, THOMAS, London, Proc. Zool. Soc., 1905, 2, (343).—*M. foina bunites* subsp. n. Crete, BATE, London, Proc. Zool. Soc., 1905, 2, (318).—*M. foina nehringi* subsp. n. Transcaucasia, SATUNIN, Tiflis, Mitt. Kavk. Mus., 2, (120, 292); given on page 292 as a species.—†*M. latifrons* sp. n. Bronze Age, Caucasus, SATUNIN, op. cit., 3, (14, 32).

Putorius vulgaris, remains from Irish kitchenmiddens, SCHARFF, Irish Nat., Dublin, 15, (46).—*P. ermineus* in winter dress in Hants, CORBIN, Zoologist, ser. 4, 10, (187); notes on, KÜNSTLER and CHAINE, Naturaliste, Paris, ser. 2, 28, (129).—*P. nivalis galinthias* subsp. n. Crete, BATE, London, Proc. Zool. Soc., 1905, 2, (319).—*P. macrophonus* sp. n. Mexico, ELLIOT, Washington, D.C., Proc. Biol. Soc., 18, 1905, (235).

Gulo borealis in French Cavern, HAMY, Bul. Muséum, Paris, 1906, (136).—*G. luscus*, in Kamchatka, TUCHOFF, St. Peterburg, Zap. Russ. Geogr. Obsč., 37, 2, (1).

Lutra vulgaris, in Britain, TREGARTHEN, Monthly Rev., London, No. 69, 1906, (81); in Kamchatka, TUCHOFF, St. Peterburg, Zap. Russ. Geogr. Obsč., 37, 2, (1).—*L. lutra splendida* subsp. n. Mogador, CABRERA, Madrid, Bol. Soc. esp. Hist. Nat., 6, (360).

Mellivora cottoni sp. n. Ituri forest, LYDEKKER, London, Proc. Zool. Soc., 1906, (112).

†*Plesictis filholi* sp. n. Oligocene Tarrega Spain, DÉFÉRET, Barcelona, Mem. R. Ac. Cs., ser. 3, 5, (421).

Spilogale, revision of species; *S. angustifrons elata* subsp. n. Chiapas (27), *S. microdon* sp. n. Low. California (34), HOWELL, N. Amer. Fauna, No. 26. Washington, D.C., Dept. Agric., 1906, (37).

PROCYONIDAE.

Aluropus, warning coloration, FAUSSEK, St. Peterburg, Zap. Russ. Geogr. Obsč., 27, 2.

†*Procyon simus* sp. n. Pleistocene California, GIDLEY, Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., 29, (553).

B.—Pinnipedia.

Seals of Baltic, BRAUN, Königsberg, Schr. physik. Ges., 46, (196); of Antarctic, ANDERSSON, Wissenschaft. Ergeb. Schwed. Südpolar-Exped., Stockholm, 5, pt. 2, 1905, (1); of South Georgia, especially *Macrorhinus* (or *Moringa*) *leonina*, LÖNNBERG, Stockholm, Vet. Ak. Handl., 40, No. 5, (1–104).

Observations, BOLAU, in Anleitung zu wiss. Beobachtungen auf Reisen. 3rd ed., (520–526).

Sealing in Newfoundland in 1906, SOUTHWELL, Zoologist, London, ser. 4, 10, (375).—Seals and sealing; Low, The Cruise of the Neptune, Ottawa; BRAUN, The Voyage of the Scotia, Edinburgh.

†*Desmatognathus* gen. n., *oregonensis* sp. n. Miocene Oregon, WORTMAN, Science, New York, N.Y., 23, (89).

Desmatophoca gen. n., *oregonensis* sp. n. Miocene Oregon, CONDON, Oregon Univ. Bulletin, 3, suppl. No. 3, (1).

†*Leptophoca* gen. n., *lewis* sp. n. Miocene Maryland, TRUE, Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., 30, (836).

Monachus schauinslandi sp. n. Laysan Id. S. Pacific, MATSCHIE, Berlin, Sitz. Ber. Ges. natf. Freunde, 1906, (258).—*M. tropicalis* in Florida, TOWNSEND, Science, New York, N.Y., 23, (583).

Phocaena communis, milk-glands, BRAUN, Zool. Anz., Leipzig, 29, (702); anatomy, etc., BRAUN, Königsberg, Schr. physik. Ges., 46, (136).

†*Prorosmarus* gen. n., *alleni* sp. n. Upp. Miocene Yorktown Virginia, BERRY and GREGORY, Amer. J. Sci., New Haven, Conn., ser. 4, 21, (117).

†C.—Creodontia.

†Revision of European Oligocene and Upper Eocene, MARTIN, Rev. Suisse Zool. Genève, **14**, (405); Montana species, DOUGLASS, Pittsburgh, Mem. Carnegie Mus., **2**, (203); Egyptian Eocene, ANDREWS, Descrip. Cat. Tertiary Vertebrata of Fayum.

†Histology of teeth, TOMES, London, Proc. Zool. Soc., **1906**, (45).

†*Amphiprovirerra*, foot-structure in relation to arboreal ancestry. DOLLO, Bruxelles, Bull. Soc., Géol., **20**, Oct. 16).

†*Cynohyæcnodon leenhardti* sp. n. Tertiary Europe, MARTIN, Rev. Suisse Zool., Genève, **14**, (420).

†*Hyæcnodon gervaisi* (491), *millouensis* (498), *ambiguus* (508), spp. n. Tertiary France, MARTIN, T.c.

†*Ictops montanus* (214), *intermedius* (217), *tenuis* (219), *major* (220), spp. n. Tertiary Montana, DOUGLASS, Pittsburgh, Mem. Carnegie Mus., 1905.

†*Paracynohyæcnodon* gen. n. (424), *schlosseri* sp. n. Tertiary Central France, MARTIN, Rev. Suisse Zool., Genève, **14**.

†*Sinopa*, osteology, MATTHEW, Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **30**, (203-233).—*S. ethiopica* sp. n. Eocene Egypt, ANDREWS, Descriptive Cat. Tertiary Vertebrata of the Fayum, Egypt, (233).

RODENTIA.

Damage by; FUCHS, Natw. Zs. Landw., Stuttgart, **4**, (204).

SCIURIDAE.

Vascular canals in post-sphenoid, BOVERO, C.-R. Ass. anat., 7^e session, (Genève), **1905**, Nancy, 1906, (114).

Arctomys marmotta, hibernation, GEMELLI, Milano, Rend. Ist. Lomb., ser. 2, **39**, (406), and Biologica, Torino, **1** (?).—A., sp. habits, DYAKOWSKI, Wszechświat, **25**, (113).

Eutamias pallidus, a valid species, *Eu. p. cacodemus* subsp. n. Dakota, CART, Washington, D.C., Proc. Biol. Soc., **19**, (87-90).

Funambulus rindonensis sp. n. Hainan, ALLEN, J. A., New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, (472).

(*Funambulus pennantii* sp. n. with subsp. *argentescens*; *F. palmarum comorinus* subsp. n., WROUGHTON, Bombay, J. Nat. Hist. Soc. **16**, 1905, (406-413).)

Funisciurus carruthersi sp. n. Mt. Ruwenzori, *pallidus lastii* subsp. n. Zanzibar, THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **18**, (297).

Nannosciurus sumatranus Sumatra (53), *borneanus* Borneo (54), *bancanus* Banka Id. Sumatra (55), spp. n., LYON, Washington, D.C., Proc. Biol. Soc., **19**.

Pteromys vulgaris, distribution in Baltic province, STOLL, Riga, Korr.-blt. Naturf. Ver., **49**, (61).—*P. oral* overlaps range of *Pteropus medius* in lowlands of Ceylon, ANON., Spolia Zeylanica, Colombo, **3**, (239).

Ratufa gigantea hainana subsp. n. Hainan, ALLEN, J. A., New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, (472).—*R. polia* sp. n. Billiten (585), *R. p. bancana* subsp. n. Banka (587), LYON, Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **31**.—*R. carimonensis* Great Karimon Id. (257), *condurensis* Pulo Kundur (258), *confinis* Sinkep Id. (259), spp. n., MILLER, Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **31**.

Sciuropterus momonga amygdali subsp. n. Japan, THOMAS, London, Proc. Zool. Soc., **1905**, 2, (344).—*S. amoenus* sp. n. Pulo Kundur, MILLER, Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **31**, (264).

Sciurus vulgaris, nest-robbing, NUSSBAUM, Wild. u. Hund, Berlin, **12**, (110); damage to forests, VOGL, Allg. Forstztg. Frankfurt-a.-M., **82**, (178); nests, ANON., Bergen, Naturen, **1906**, (229); habits, SEEGER, Zool. Beob., Frankfurt-a.-M., **47**, (104); placenta, MULLER, Amsterdam, Proc. Sci. Akad. Wet., **9**, (308); tameness of young, SEEGER, Zool. Beob., Frankfurt-a.-M., **47**, (104-105); albinism. ANNE, Feuille jeunes natural., Paris, **36**, (182); damage to orchards, ANNE, l.c.—*S. vulgaris*, subspecies, with *Sc. v. arcticus* subsp. n. N. Siberia, (365), TROUESSART, Bul. Muséum, Paris, **1906**, (360-366).—*S. vulgaris orientis* subsp. n. Japan, THOMAS, London, Proc. Zool. Soc., **1905**, 2, (345).—*S. lokroides mearsi*

subsp. n. Burma, BONHOTE, Ann. Mag. Nat. Hist., London, ser. 7, **18**, (337).—*S. erythraeus insularis* subsp. n. ALLEN, J. A., New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, (473).—*S. poliopus tepicanus* subsp. n. Jalisco, Mexico; ALLEN, J. A., T.c. (243).—*S. stangeri loandae* N. Angola, *S. st. nigeriae* Low. Niger (296), *S. st. centricola* Uganda (297) subspp. n., THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **18**.—*S. alphonsei* nom. n. for *S. roberti* THOMAS nec Bonhote, THOMAS, T.c. (441).—*S. condurensis* Pulo Kundur (260), *carimonensis* Gt. Karimon Id. (261), MILLER, Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **31**; *S. pooli* Stanley Falls, JENTINK, Leiden, Notes Mus. Jentink, **28**, (139); *S. mendanauus* Mendanau (589), *tedongus* Banka (591), *billitonus* Billiton (592), LYON, Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **31**; *S. curimatae* Karimata Id. (57), *serutus* Pulo Seruto (58), MILLER, T.c. spp. n.

Spermophilus, limb-structure, FAUSSEK, St. Petersburg, Zap. Russ. Geogr. Obsč., **27**, 2, (1).

Tamias nexus sp. n. Mexico, ELLIOT, Washington, D.C., Proc. Biol. Soc., **18**, 1905, (233).

Tamias gen. n. for *Sciurus macclellandi* Horsfield, ALLEN, J. A., New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, (475).—*T. macclellandi hainanus* (476), *T. m. rindoni* (477), subspp. n., Hainan, ALLEN, J. A., T.c.

Xerus rutilus, note on, MOREAU, Paris, Bul. soc. zool., **27**, 1902, (221); *X. rutilus stephanicus* subsp. n., district between Lakes Rudolf and Stephanie, THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **18**, (301).

†THERIDOMYIDAE.

†*Theridomys siderolithicus major* subsp. n. Oligocene Tarrega Spain, DEPÉRET, Barcelona, Mem. R. Ac. Cs., ser. 3, **5**, (415).

GLIRIDAE.

Elomys and *Graphiurus*, regeneration of tail in, THOMAS, London, Proc. Zool. Soc., **1905**, 2, (491).

Elomys (Dryomys) angelus sp. n. Thian Shan, THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **17**, (421).

Glirulus gen. n. for *Myoxus japonicus*. SCHINZ, THOMAS, London, Proc. Zool. Soc., **1905**, 2, (347).

Glis glis spoliatus subsp. n. Trebizond, THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **18**, (220).

Graphiurus griselda sp. n. Bechuanaand, SCHWANN, London, Proc. Zool. Soc., **1906**, (105).

Myoxus glis, habits, etc., ZIMMERMANN, Zool. Beob., Frankfurt-a.-M., **47**, 311.

CASTORIDAE AND JACULIDAE.

Castor fiber, in Rhone valley, MINGAUD, Nîmes, Bul. soc. étud. sci. nat., **36**, (74); Foetus, id., T.c. (83).

Ostocpera, F. Cuv., note on, HAMY, Bul. Muséum Paris, **1906**, (133).

Dipus, limb-structure, FAUSSEK, St. Petersburg, Zap. Russ. Geogr. Obsč., **27**, 2, (1).

MURIDAE.

Meadow-Mice and agriculture, LANTZ, Washington, D.C., Yearbook U. S. Dept. Agric., **1905**, (363).

"Les rois de Rats," DOLLÉES, Feuille jeunes natural., Paris, **36**, 1906, (174).

Murinae of China, BONHOTE, London, Proc. Zool. Soc., **1905**, 2, (384).—Of Calcutta, HOSSACK, Calcutta, J. As. Soc. Beng., ser. 2, **2**, (83).

Acodon serrensis leucogula subsp. n. Itatiaya, Brazil, RIBEIRO, Rio de Janeiro, Arch. Museu, **13**, (26).

Acomys dimidiatus minous subsp. n. Crete, BATE, London, Proc. Zool. Soc., **1905**, 2 (321).

Alticola worthingtoni sp. n. Thian Shan, MILLER, Ann. Mag. Nat. Hist., London, ser. 7, **17**, (372).

Ammomys gen. n. for *Conilurus hirsutus* Gould, THOMAS, T.c. (84), cf. *Mesembriomys*.

Anotomys gen. n., *leander* sp. n. Mt. Pichincha Ecuador, THOMAS, T.c. (81-85).

Arvicanthus rex sp. n. Charada Forest Kaffa, THOMAS, Op. cit. **18**, (304).—*A. occidentalis* Sierra Leone, *fasciatus* S. Nigeria, (377), *pulcher* (378), S. Nigeria, spp. n., WROUGHTON, op. cit. **17**.

Arvicola amphibius, notes on, MOLZ, Mitt. Weinbau, Geisenheim, **18**, (47).—*A. arralis*, ovum, DISSE, Arch. Mikr. Anat., Bonn, **68** (215).

Calomys americanus, drumming habit, DAVIS, New Brighton, N.Y., Proc. Nat. Sci. Ass. Staten Is., **9**, 1903, (3).

Conilurus, revision of groups usually included in, THOMAS, Ann. Mag. Nat. Hist., London, ser. **7**, **17**, (81-85), cf. *Ammomys* and *Leporillus*.

Craseomys regulus sp. n., Korea, THOMAS, London, Proc. Zool. Soc., **1906**, (863).

Cricetulus lama, Tibet, BONHOTE, T.c. (305).

Cricetus vulgaris niger subsp. n. SIMROTH (ex Schreber), Biol. Centralbl., Berlin, **31** (337).

Dasymys montanus, *medius*, Mt. Ruwenzori spp. n., THOMAS, Ann. Mag. Nat. Hist., London, ser. **7**, **18** (144).

Calomyscus bailwardi, Persia, described and figured, THOMAS, London, Proc. Zool. Soc., **1905**, **2** (525).

Drosomys nom. n. for *Limnomys*, THOMAS 1906 nec Mearns, 1905, THOMAS, Washington, D.C., Proc. Biol. Soc., **19** (199).

Ellobius woosnami, described, THOMAS, London, Proc. Zool. Soc., **1905**, **2** (526).

Evotomys mikado, *bedfordiae*, *andersoni*, described, THOMAS, T.c. (352-354).—*E. nageri hallucalis* subsp. n., THOMAS, Ann. Mag. Nat. Hist., London, ser. **7**, **18** (221).—*E. centralis* sp. n. Thian Shan, MILLER, op. cit. **17** (373).—*E. ponticus* sp. n. Trebizond, THOMAS, T.c. (417).

Gerbillus hirtipes hesperinus subsp. n. Mogador, CABRERA, Madrid, Bol. Soc. esp. Hist. Nat., **1906** (365).

Holochilus chaearius Paraguay (446), *balnearum*, Tucuman (447), spp. n., THOMAS, Ann. Mag. Nat. Hist., London, ser. **7**, **18**.

Hydromys esox sp. n. Brit. New Guinea, THOMAS, Op. cit. **17** (324).

Leggada bufo sp. n. Mt. Ruwenzori, THOMAS, Op. cit. **18** (145).

Lenothrix legata sp. n. Liu Kiu Islands, THOMAS, Op. cit. **17** (88).

Leporillus gen. n. for *Conilurus apicalis* Gould, THOMAS, T.c. (83).

Limnomys gen. n., *asper* sp. n. Brit. New Guinea, THOMAS, T.c. (324, 325), c.f. *Parahydromys*.

Lophuromys woosnami sp. n. Mt. Ruwenzori, THOMAS, Op. cit. **18** (145).—*L. zaphiri* sp. n. E. of Upper Omo (305), *L. aquilus brunneus* subsp. n. W. of Upper Omo (306), THOMAS, T.c.

Mesembriomys nom. n., to replace *Ammomys*, THOMAS, huj. ann. nec Bonaparte, PALMER, Washington, D.C., Proc. Biol. Soc., **19**, (97).

Micromys speciosus ainu (349), *geisha hokkaidi* (350), *minutus japonicus* (351), subsp. n. Japan, THOMAS, London, Proc. Zool. Soc. **1905**, **2**.—*M. geisha yakui* subsp. n. Yakushima, THOMAS, T.c. (362).—*M. speciosus navigator* (358), *geisha celatus* (359). Oki Islands, subsp. n., THOMAS, T.c. *M. speciosus peninsulae* subsp. n. Korea, THOMAS, op. cit. **1906** (862).

Microtus arralis, ENDREY, Délmagy. Term. Fü., Temesvár. **80**, (237).—*M. nivalis*, note on, DE SCHAECK, Naturaliste, Paris, ser. **2**, **25** (244).—*M. oreadenis sandayensis* subsp. n. Sanday Id. Orkney, MILLAIS, The Mammals of Great Britain and Ireland, **2**, 1905 (280).—*M. (Baionys) waltoni* described, BONHOTE, London, Proc. Zool. Soc., **1905**, **2** (306).

Microtus cabreræ Spain, THOMAS, Ann. Mag. Nat. Hist., London, ser. **7**, **17** (576).—*M. transcaspicus* Transcaspia, SATUNIN, Tiflis, Mitt. Kavk. Mus., **2**, 1905, (57, 78).—*M. elymocetes* Montague Id. Alaska, OSGOOD, Washington, D.C., Proc. Biol. Soc., **19**, (71).—*M. roberti* (418), *M. (Pitymys) majori* (419) Trebizond, THOMAS, Ann. Mag. Nat. Hist., London, ser. **7**, **17**, spp. n.

Mus decumanus, mucous membrane of mouth, KOHLMAYER, Zs. wiss. Zool., Leipzig, **81**, (145-190).—*M. decumanus niger*, note on, HAMY, Bul. Muséum, Paris, **1906** (87).

Mus rattus in Orkney, GODREY, Ann. Scot. Nat. Hist., **1906**, (49); inheritance of coat-colour, DONCASTER, Cambridge, Proc. Phil. Soc. **13** (215), pied breed, WARD, Milwaukee, Bull. Wis. Nat. Hist. Soc. **4** (37), habits, MAXOUVRIER, Bul. Inst. psych. internat., Paris, **5**, 1905, (165).—*M. rattus* and *M. norvegicus* migrations, ENTZ, Állatt. Közlem., Budapest, **5**, (1).—*M. musculus*, anatomy, ANGLAS, "Les animaux de laboratoire; La Souris," Paris, 1906, (17), Bildung der Richtungskörper, Gerlach, Wiesbaden, 1906, (vii + 31), heredity and mutation, CÉNOT, Paris, C.-R. Ass. franç. avanc. sci., **34**, (Cherbourg, 1905, 2 Part), 1906, (593), colour and gametic purity, CASTLE, Science, New York, N.Y., **24** (275), function of labyrinth in "Waltzing Mice," ALEXANDER and KREIDL, Monatsschr. Ohrenheilk, Berlin, **35**, 1901 (78).

Mus hirtensis and *M. myralis*. BARRETT-HAMILTON, Ann. Scot. Nat. Hist., **1906**, (1).

Mus sylvaticus, notes on, SOFFEL, Zool. Beob., Frankfurt-a-M., **47** (56), and DETMERS, T.c. (101).—*M. sylvaticus fridariensis* **subsp. n.** Fair Isle, Shetlands, KINNEAR, Ann. Scot. Nat. Hist., **1906**, (68).—*M. meridionalis*, affinities, etc., GIGLIOLI, Napoli, Annuario Museo. zool., ser. 2, **1**, No. 9 (1, 2).

Mus albocinereus squalorum **subsp. n.** N. Bernier J., THOMAS (766). London, Proc. Zool. Soc., **1906** [1907].—*M. univittatus lunaris* **subsp. n.** Mt. Ruwenzori, THOMAS (145), Ann. Mag. Nat. Hist., London, ser. 7, **18**.—*M. auricomis centralis* **subsp. n.** Cape Colony (107), *M. rooseum* **sp. n.**, Bechuanaland (108), SCHWANN, London, Proc. Zool. Soc., **1906**.—*M. brockmani* Brit. Somaliland, THOMAS, Ann. Mag. Nat. Hist., London, Ser. 7, **18**, (298).—*M. calopus* Mogador, CABRERA, Madrid, Bol. Soc. esp. Hist. Nat. **1906** (365).—*M. forresti*, Alexandria, N. Australia, THOMAS, London, Proc. Zool. Soc., **1906** (538).—*M. clabatus* Banka, LYON, Washington, D.C., Smithsonian Inst. Nation Mus. Proc. **31** (596).—*M. enganus* Engano Id., MILLER, op. cit. **30**, (821).—*M. klossi* Johore, inas Perak, BONHOTE, London, Proc. Zool. Soc. **1906** (9).—*M. shortridgei*, W. Aus-

tralia, THOMAS (765), T.c. [1907].—*M. sscrulu* Pulo Seruto, *earimatae* Karimata Id., MILLER, Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **31** (59).—*M. niobe* Brit. New Guiana, THOMAS, (327) Ann. Mag. Nat. Hist. **17**.—*M. demmiae* Mt. Ruwenzori id. op. cit. **18** (144): **spp. n.**

Mylomys **gen. n.**, *cunninghami* **sp. n.** Brit. E. Africa, THOMAS, T.c. (224, 225).

Myodes torquatus, notes on, LORENZEN, Prometheus, Berlin, **17** (456).

(*Ecomys*, **subgen. n.** for *Rhipidomys* *benerolens*, THOMAS, Ann. Mag. Nat. Hist. London, ser. 7, **18** (445).

Oryzomys (*Ecomys*) *mamorae* **sp. n.** Upper Mamoré Bolivia, THOMAS, T.c. (445).

Otomys dartmouthi (141), *denti* (142). **spp. n.**, Mt. Ruwenzori, THOMAS, T.c.—*O. typus fortior* **subsp. n.** Charada Kaffa, THOMAS, (302), T.c.—*O. irroratus auratus*, Mashonaland (272), *O. i. eupreus* Transvaal (273), *O. i. angoniensis* Brit. C. Africa (274), *O. i. nyikæ*, Nyika Plateau (276), **subsp. n.**, WROUGHTON, T.c.

Parahydromys **nom. n.** for *Limnomys*, Thomas huj. ann. nec Miller, Poche, Zool. Anz., **30** (326).

Peromyscus canadensis argentatus **subsp. n.** Grand Manan Id. Brit. Columbia, COPELAND and CHURCH, Washington, D.C. Proc. Biol. Soc., **19**, (122).—*P. pectoralis laevis* **subsp. n.** Texas, BAILEY, T.c. (57 and 58).

Rhcomys **gen. n.** *underwoodi* **sp. n.** Costa Rica, THOMAS, Ann. Mag. Nat. Hist. London, ser. 7, **17**, (421–423).

Rhipidomys cf. *Ecomys*.

Rhithrodontomys amaenus **sp. n.** Mexico, ELLIOT, Washington, D.C., Proc. Biol. Soc. **18** (235).

Saccostomus hilde **sp. n.** Bechuanaland, SCHWANN, London, Proc. Zool. Soc., **1906** (110).

Sigmodon vulcani **sp. n.** Mexico, ALLEN, New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22** (217).

Tatera kempii South Nigeria (376), *ruddi* Zululand (478), *draco* Transvaal (479), **spp. n.**—*T. lobengulae bechuanac*, Bechuanaland (482), *T. l. griqua*, Kuru-

man, *T. l. mashonae* Mashonaland (483), **subsp. n.**—*T. miliaria* **sp. n.**, Deelfontein (484); *T. m. salsa* **subsp. n.** Zoutpansberg (485).—*T. angolae* Angola (488), *giffardi* Gold Coast (489), *nyasae*, Nyasaland (490) **spp. n.**—*T. n. shirensis* **subsp. n.** Upper Shire (190).—*T. nigrita* Uganda (491), *shoanae* Abyssinia (492), *mombasae* Mombasa (493), *persica* Persia (496), **spp. n.**, *T. p. seansa*, **subsp. n.** (496).—*T. bairdardi* **sp. n.** Karun R. (498).—*T. bairdardi monticola* **subsp. n.** Mala Mir S.W. Persia (498).—*T. ceylonica*, **sp. n.** Ceylon (499); WROUGHTON, Ann. Mag. Nat. Hist. London, ser. 7, **17**. *T. harringtoni* **sp. n.** E. of Lake Rudolf, THOMAS, op. cit. **18** (303).

Thomasomys (Coeus, 1884), list of species, THOMAS, T.c. (442-444).

Uromys platyops (327), *gracilis* (328), **spp. n.** Brit. New Guinea, THOMAS op. cit. **17**.

SPALACIDAE.

Spalax typhlus, eye, SZAKÁLL, Leipzig, Math. Nat. Ber. Ungarn., **20**, 1905 (272-288).—*S. typhlus dolbrogeae*, note on, KOWATSCHEFF, Wien. Verh. zool. bot. Ges., **1906** (604).

Tachyoryetes annectens, specific characters, SCHWALM, Allatt. Közlem., Budapest, **5**, (131).

BATHYERGIDAE AND GEOMYIDAE.

Georychus capensis canescens (165), *hottentottus talpoides* (166), **subsp. n.**, Cape Colony, THOMAS and SCHWANN, London, Proc. Zool. Soc., **1906**.—*G. mellandi* **sp. n.** N.E. Rhodesia, THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **17** (178).

Heliofobius robustus **sp. n.** N.E. Rhodesia, THOMAS, T.c. (179).

Heterogeomys lanius **sp. n.** Mexico. ELLIOT, Washington, D.C., Proc. Biol. Soc., **18**, 1905 (235).

Orthogeomys cuniculus **sp. n.** Mexico, ELLIOT, T.c. (234).

Thomomys umbrinus (Richardson), identified, BAILEY, op. cit. **19** (3-6).

(N-9720 f)

HETEROMYIDAE AND HYSTRICIDAE.

Atherurus hainanus **sp. n.** ALLEN, New York, N.Y., Bull. Amer. Mus., **22** (470); *Atherurus* cf. *Hystrix*.

Heteromys pictus esquinapae **subsp. n.** Sinaloa (211).—*H. jaliscoensis* **sp. n.** Jalisco (251), ALLEN, T.c.

Hystrix macroura, Linn. (not *H. fasciculata*, Shaw) the type of *Atherurus*. F. Cuv., Lyon, Washington, D.C., Proc. Biol. Soc., **19** (199).—*H. cristata* "rattle." Pocock, London, Proc. Zool. Soc., **1906** (902) [1907].

OCTODONTIDAE.

Myopotamus coypus tactile corpuscles in feet, ZUCKERKANDL, Zs. Morph., **10**, (98).

CAVIIDAE AND CHINCHILLIDAE.

Caria cobaya; polydactylism, CASTLE, Brooklyn, N.Y., Cold Spring Harbor Evolut. Papers, No. 6 (1); corpus luteum, SOBOTTA, Anat. Hefte, Wiesbaden, Abth. **1**, **32** (89), and LOEB, Anat. Anz. Jena, **28** (102); cloaca, DIMFEL, Morph. Jahrb., Leipzig, **35** (17); blood-cells, LEDINGHAM, Lancet, London, **1906**, i (1675); colour-inheritance, DAVIES, Field, London, **108**, (511); heredity in hair-length, CASTLE and FORBES, Brooklyn, N.Y., Cold Spring Harbor Evolut. Papers, No. 5 (1); heredity of coat-characters, CASTLE, Pub. Carnegie Inst., Svo. No. 23, 1905 (1); reproductive organs, GRUBER, Morph. Jahrb., Leipzig, **36** (3); testis, BARNABO, Rome, Boll. Soc. Zool. Ital., ser. 2, **7** (275), and MORGERA, Napoli, Boll. Soc. nat. (132 and 135).

Chinchilla lanigera, protection of, STRASSBERGER, Zool. Beob., Frankfurt-a.-M., **47**, (56).

Dolichotis salinicola and allied species, note on, LODER, London, Proc. Zool. Soc. **1906**, (96).

Hydrochoerus capybara, abnormal dentition, BECK, T.c. [1907], (761).

Lagostomus maximus (de Blainville) stands for *L. trichodaetylus*, LAHILLE, Buenos Aires, An. Soc. Cient. Argent., **62**, (39).

Viscaccia viscacia (Molina) replaces *Lagidium peruvianum*, LAHILLE, T.c. (39).

LEPORIDAE AND OCHOTONIDAE.

Lepus, notes on British, LYDEKKER, Country-side, London, **1906**, (358).—*L. agyptiacus* in ancient painting, BOUSSAC, Naturaliste, Paris, **28**, (53).—*L. sherif* sp. n. Mogador, CABRERA, Madrid, Bol. Soc. esp. Hist. Nat., **1906**, (366).—*L. brachyurus oliensis* subsp. n. Oki, Idr., THOMAS, London, Proc. Zool. Soc., **1905**, 2, (359).—*L. rassali* sp. n. Annam, THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **17**, (425).—*L. cyrensis* sp. n. Elizabetpol, SATUNIX, Tiflis, Mitt. Kavk. Mus., **2**, 1905, (60).—*L. medius scotiens* Scotland, *L. m. brevicauritus* Bernese Alps (511), *L. europaeus pyreniens* Pyrenees, *L. eu. meridici* S. France (513), subsp. n., HILZHEIMER, Zool. Anz., **30**.—*L. europaeus*, period of gestation, BITOW, Wild u. Hund, Berlin, **12**, (393); hybrids, HILZHEIMER, T.c. (601); local modification, KÜNSTLER, C.-R. ass. anat., 7^e session, (Genève), **1905**, Nancy, 1906, (126).—*L. cuniculus*, nervus recurrens, HAEBERLIN, Arch. Laryng., Berlin, **18**, (20); development of auditory ossicles, FUCHS, Anat. Anz., Jena, **28**, (317); embryo, FUCHS, Arch. Anat. Physiol. Leipzig, Anat. Abth., **1906**, (117); heredity of coat-characters, CASTLE, Pittsburg, Pub. Carnegie Inst. (8vo.), No. 23, 1905, (1); abnormal incisors, SHEPPARD, Hull Mus. Publ., No. 35, 1906, (16); development, MINOT and TAYLOR, Normentafeln zur Entwicklungsgeschichte der Wirbeltiere, Keibel, Jena, No. 5, 1905; aortic arches, BRADLEY, Anat. Anz., Jena, **28**, (506); pericardio-peritoneal duct of embryo, HOCHSTETTER, op. cit. **29**, (41); trapezbern, ANTONI and BJORK, T.c. (300); earless breed, GADEAU DE KERVILLE, Paris, Bul. soc. zool. France, **31**, (71); heredity of coat, LOISEL, Paris, C.-R. soc. biol., **60**, (258).

Oryctolagus cuniculus enossius subsp. n. Crete, BATE, London, Proc. Zool. Soc., **1905**, 2, (322).

Ochotona, notes on Himalayan species, WARD, Bombay, J. Nat. Hist. Soc., **17**, (151).

Pronolagus ruddi (not *P. crassicaudatus*), the type of the genus, LYON, Washington, D.C. Proc. Biol. Soc., **19**, (95).

UNGULATA.

Representatives in New York Zoological Park, HORNADAY, New York, N.Y., 20th Rep. Zool. Soc., 1906, (88); measurements of appendages, WARD, Records of Big Game, London, 1907, (1906); cervical appendages, DISSELHORST, Anat. Anz., Jena, **28**, (321); anatomy of domesticated, DISSELHORST, Die Anatomie . . . der grossen Haussäugetiere, Berlin, 1906; Horn and Antler exhibition at Berlin, MATSCHKE, Weidwerk in Wort und Bild, Berlin, 1906, (197).

Placenta, ASSHETON, London, Phil. Trans. R. Soc., B, **198**, (143); placenta, histology and physiology, JENKINSON, London, Proc. Zool. Soc., **1906**, (73-96).

[Peisocene of Arctic Russia, etc., PAVLOW, Résultats Scientifiques de l'Expédition Polaire Russ., etc., Geol. & Pal., St. Peterburg, 1906, (2 + 40 + 1); St. Peterburg, Mem. Ac. Sci., ser. 8, **20**, 1906, (96), and Bul. Ac. Sci., ser. 5, **29**, 1906, (199).

[Of Lagoa Santa, with notes on the classification of the order generally, WINGE, Kjöbenhavn, E. Museo Lundii, **30**, (1-239); of Patagonian Tertiary, GAUDRY, Ann. Paléont., Paris, 1, 1906, pts. 1 and 3; AMEGHINO, An. Mus. Nac., Buenos Aires, **15**, (1).

Of Egyptian Eocene, ANDREWS, Descriptive Catalogue of the Tertiary Vertebrata of the Fayum, Egypt, London, (Brit. Mus.), 1906.

A.—Artiodactyla.

Ruminants, penis, GERHARDT, Verh. D. Zool. Ges., Leipzig, **1906**, (149); stomach, SCHMALTZ, Berliner, tierärztl. Wochenschr., **1905**, (453); colour, etc., of horns, BRANDT, Wild u. Hund, Berlin, **12**, (1); lymph, FORGEOT, Paris, C.-R. ass. franc. avanc. sci., **35**, (Lyon, 1906, 1 part.), 1906, (103); milk-dentition, BEHLEN, Wiesbaden, Jahrb. Ver. Natk., **59**, (185).

"Unicorn," an Asiatic Ruminant, EASTMAN, Science, New York, N.Y., **23**, (195).

BOVIDAE.

Temperature of Catle, SCHMIDT, Berliner tierärztl. Wochenschr., **1905**, (437-

442); Cattle of Indo-China, DECHAMBRE, Rev. colon., Paris, **1906**, (596); monstrosity, RAYMONDAUD, Rev. sci. limous., Limoges, **14**, (353); physiology of Cattle, SCHMIDTCHEN, Monatshefte Tierheilk., Stuttgart, **18**, (1).

Aurochs and Bison, confusion of names, LOMBARD-DUMAS, Nîmes, Bull. soc. étud. sci. nat., **33**, (65).

Bison bonasus caucasia subsp. n. Caucasus, GREVÉ, Zool. Beob., Frankfurt-a.-M., **47**, (270).

Bison americanus, SETON, Scribner's Magazine, **40**, (385-405).

Bos taurus, colour-inheritance, BARRINGTON and PEARSON, Biometrika, Cambridge, **4**, (427); ovary, HEITZ, Arch. Tierheilk., Berlin, **32**, (477); Russian breeds, STEGMANN, Russlands Rinderassen, Diss. Jena, Riga, 1906; two-headed calf, TARNANI, Novo-Aleksandrija, Zap. Inst. selisk. choz., **18**, (106); cattle of Voges, Alsace, HILZHEIMER, Strassburg, Mitt. Philom. Ges. Elsass. Lothr., **3**, (368); monstrous calves, LESBRE and FORGEOT, Étude anatomique de deux veaux achondroplases, Lyon, 1905; foramen ovale in calf, SONNENBRODT, Berliner tierärztl. Wochenschr., **1906**, (45); uterus, DENNHARDT, D. tierärztl. Wochenschr., Hannover, **14**, (64); reproduction, LIEBL, D. landw. Tierzucht, München, **1**, (244).

†*B. primigenius*, skeleton from Vig, Denmark, with flint weapons, HARTZ and WINGE, Aarbog f. Nordisk Oldkyndighed og Historie, Kjöbenhavn, 1906, (225); skull with hair and skin from Magdeburg district, MERTENS, Berlin, Zs. D. geol. Ges., **57**, 1905, Monatsberichte, (419); cranial osteology, WRUBLEWSKI, St. Peterburg, Ann. Mus. Zool. Ac. Sci., **10**, 1905, [1906], (82), history of, MERTENS, Magdeburg, Abh. Mus. Natk. **1**, 1906, (45). *B. indicus*, visceral abnormality, BRUMPT, Paris, Bul. soc. zool., **27**, 1902, (209).

Bos (Bison) bison, present state of herds, BERNSTOFF, Wild u. Hund, Berlin, **12**, (52-54, 68-70).

Bos (Bubalus) caffer cottoni subsp. n. Semliki district, LYDEKKER, Field, London, **109**, (87), 1907, and London, Proc. Zool. Soc., **1906**, (996), [1907].

Bubalis tora rahatensis subsp. n., Shunfar Abu, NEUMANN, Berlin, Sitz-Ber. Ges., natf. Freunde, **1906**, (246).--*B.*

niedecki sp. n. Sudan, NEUMANN, in P. Niedeck's Mit der Büchse in fünf Weltteilen, 1905, (301).

Bubalus gariepcensis Up. Gariep Riv. (166). *limpopoensis* Limpopo (167), *wiesci* north of Zambesi, near Loanga (168), *azrakensis* Bahr-el-Azrak, *neumannii* Chagwe, Uganda (169), *ruhhaensis* Upogoro, German E. Africa (170), *mayi* Loanda, W. Africa, *thierryi* Togoland, MATSCHE, Berlin, SitzBer. Ges. natf. Freunde, **1906**: spp. n.

Budorcas taxicolor, young specimen figured, LYDEKKER, Field, London, **108**, (651).

Capella rupicapra, in Caucasus, RAZEVIĆ, Psov. i ružejn. ochota, **1905**, 10, (86), 11-12, (136).

Capra hircus, general account, ZÜRN, Die Hausziege, Leipzig, 1906, (iv+6); skull of wild Irish breed, HOLDING, London, Proc. Zool. Soc., **1906**, (574); hermaphroditism, WEISSELOG, D. tierärztl. Wochenschr., Hannover, **13**, 1905, (26); oligodontism, GRUNDMANN, Op. cit. **12**, 1904 (161); monster, DIEULAFAÉ & HERPIN, Nature, Paris, **1906**, (79). *C. ibex*, external characters, osteology, etc., CAMERANO, Torino, Mem. R. Acc. Sci., ser. 2, **16**, (283), **17**, (284).

Capra sibirica, type locality, Sahan Mts (86); *C. s. almasyi* subsp. n. Thian Shan (89); *C. s. transalaina* subsp. n. Trausalai (90), *C. s. pedri* subsp. n. Gilgit (94); LORENZ, Wien, Denkschr. Ak. Wiss., **80**. See also [LYDEKKER] Ind. Field, Calcutta, **32**, (564).--*C. dinicki*, note on, RAZEVIĆ, Psov. i ružejn. ochota, **12**, (279).--*C. falconeri megaceros*, variation in horns from Chitral, LYDEKKER, Field, London, **108**, (778).

Cephalophus coxi sp. n. N.E. Rhodesia, JENTINK, Leiden, Notes Mus., Jentink, **28**, (117).--*C. leopoldi* sp. n. Ituri Forest, ROTHSCHILD and NEUVILLE, Paris, R. Acad. sci., **143**, (1257); *C. natalensis rassei* sp. n. Portuguese E. Africa, TROUSSART, Bul. Muséum, Paris, **1906** (445).--*C. robertsi* sp. n. Portuguese E. Africa, ROTHSCHILD, W., London, Proc. Zool. Soc., **1906** (691).--*C. walkeri* sp. n. Blantyre district, Nyasaland, THOMAS, T.c. (464).

Cervicapra arundinum northward range, LYDEKKER, Field, London, **108** (778).

Cobus leucotis, development of adult coloration, LYDEKKER, Field, London, **108** (138).—*C. ellipsiprymnus*, albino, BROUX, London, Proc. Zool. Soc., **1905**, 2, (296).—*C. adolfi-frederici* sp. n. German E. Africa, MATSCHIE, Weidwerk in Wort und Bild, Berlin, 1906, (234).—*C. vaughani* sp. n. Bahr-el-Ghazal, LYDEKKER, Field, London, **108**, (693).

Gazella dama permista Senegambia (239). *G. granti lacuum* Lake Suksuk (243). *G. arabica erlangeri* Lahash, N. of Aden, *G. a. rueppeli* Sinai (244), **subsp. n.**, NEUMANN, Berlin, SitzBer. Ges. Natf., **1906**.—†*G. salmi* sp. n. Fashoda, LORENZ, Wien, SitzBer. Ak. Wiss., **105**, (1).—†*G. daviesi* sp. n. Pliocene Norfolk, HINTON, London, Proc. Geol. Ass., **19**, (247-251).

Haploceros montanus, foot-structure and habits, OSBORN, New York, N.Y., Rep. Zool. Soc., **1906**, (217).

Hylarnus gen. n., for *Neotragus batesi*, de Winton, *H. harrisoni* sp. n. Semliki Forest, THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **18**, (149).

Hylarnus and *Nesotragus* may be included in *Neotragus*, LYDEKKER, Field, London, **108**, (510).

Ibex sibirica merzbacheri subsp. n. Central Thian Shan, LEISEWITZ, Zool. Anz., Leipzig, **39**, (655).

†*Liops* gen. n., *zuniensis* sp. n. Pleistocene, New Mexico, GIDLEY, Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **30**, (165-167).

Nemorhaedus sumatrensis swettenhami, note on, NORMAN, Singapore, J. Straits Branch R. Asiatic Soc., **45**, (279).—*N. argyrochactes*, figured, LYDEKKER, London, Proc. Zool. Soc., **1905**, 2, (329).

Nototragus gen. n. for *Raphiceros melanotis*, THOMAS and SCHWANN, London, Abs. Proc. Zool. Soc., **1906**, (10).

†*Oribos moschatus*, remains at Göteborg, Sweden, MUNTIE, Stockholm, Geol. For. Förh., **27**, (173).

Ovis aries, African four-horned piebald breed, LYDEKKER, Field, London, **108**, (3); placenta, ASSHETON, London, Phil. Trans. R. Soc., B, **198**, (143); anal tube, SCHWARZTRAUER, Morph. Jahrb., Leipzig, **35**, (65); development of salivary glands, THIRO, Science, New York, N.Y., **24**, (298); foot-glands,

ZIMMERMANN, Pötf. Termt. Közl., **38**, (137); monsters, LESBRE and FORCIOT, C.-R. ass. anat., '8^e session (Bordeaux), Nancy, **1906**, (102), abnormal hoofs, WARREN, London, Ann. Natal Govt. Mus., **1**, 1906, (109, 110).—*O. aries* and *Capra hircus*, pyramidal tract, DEXLER and MARJULIER, Morph. Jahrb., Leipzig, **35**, (413-449).—*O. matschiei* sp. n. Corsica and Sardinia, DUERST in Wilcken's Grundzuge der Naturgeschichte der Haustiere, Leipzig, 1905, (177, 180).

Raphiceros cf. *Nototragus*: *R. sharpei colonicus* subsp. n. (583), *R. neumanni capricornis* subsp. n. (584). N.E. Transvaal, THOMAS and SCHWANN, London, Proc. Zool. Soc., **1906**.

Saiga tatarica, from Kirghiz Steppe, FRITZE, Hannover, Jahrb. ProvMus., **1905-1906**, (42).

Taurotragus oryx pattersonianus subsp. n. British East Africa, LYDEKKER, Field, London, **108**, (579, 609).

Urotragus evansi, notes on, EVANS, London, Proc. Zool. Soc., **1905**, (311-314).

ANTILOCAPRIDAE AND GIRAFFIDAE.

Antilocapra americana, note on, SETON, Scribner's Magazine, New York, N.Y., **40**, (33).

Giraffa camelopardalis, foetus, BEDDARD, London, Proc. Zool. Soc., **1906**, (626).

Ocapia, distribution, LÖNNBERG, op. cit. **1905**, 2, (309); notes on, POWELL-COTTON, Times, London, 1906, Sept. 26 [see also Nature, London, **74**, 1906, (578)]; mounted specimens, KÜSTHARDT, Globus, Braunschweig, **89**, (108), figg.; embryo, BURCKHARDT, Verh. D. Zool. Ges., Leipzig, **1906**, (262), and London, Proc. Zool. Soc., **1906**, (762) [1907]; note on, CZÉKUS, Glasnik. Naravosl. družt., Zagreb, **14**, 1902, (1); in Bahr-el-Ghazal, MÉNÉGAUX, Bul. Muséum, Paris, **1905** (381); note on, SCLATER, London, Proc. Zool. Soc., **1906**, (760) [1907], MÉNÉGAUX, Paris, Rev. des Idées, **2**, 1905 (831, 970).

CERVIDAE.

British, MILLAIS, Mammals of Great Britain and Ireland, **3**; antler-growth,

RÖRIG, D. Jäger, München, **28** (119), Zool. Beob., Frankfurt-a.-M., **47**, (134).
BEULEN, T.c. (262).

†Fossil *Cervidae* of Ostsee province, SCHWEDER, Riga, Korr.-blt. Naturf. Ver., **49**, (17).

Alees machlis, notes on. KAPHERR, Weidmann, Berlin, **37**, (641); antlers, SETON, Scribner's Magazine, New York, N.Y., **39**, (157); Idaho Moose, probably distinct, BROOKS, New York, N.Y., Rep. Zool. Soc., **10**, (201); from Pleistocene of Olai, Russia (where such remains were described by E. Fischer in 1831 as *Cervus gallinus*), SCHWEDER, Riga, Korr.-blt. naturf. Ver., **49**, 1906, (17).—*A. americanus*, name given by Clinton in 1820, OSGOOD, Washington, D.C., Proc. Biol. Soc., **19**, (87).

Capreolus vulgaris, development, SAKURAI, Normentafeln zur Entwicklungsgeschichte der Wirbeltiere. Keibel, Jena, No. 6, 1906: sporting account, BAERFELD, Das Rehwild, Berlin, 1906; antler-growth, BEULEN, Wild u. Hund, Berlin, **12**, (281); antlers, RÖRIG, D. Jäger, München, **28**, (225), BRAUN, Königsberg, Schr. physik. Ges., **47**, (84); white rump-patch, SCHUSTER, Natur. u. Haus, Dresden, **14**, (383); †in Pleistocene of Aa Valley, PONTIER, Naturaliste, Paris, **28**, (263); first antlers, BEULEN, D. Jägerztg, Neudamm, **47**, (290).—*C. tianschanicus* sp. n. Thian-Shan, SATUNIN, Zool. Anz., Leipzig, **30**, (527).

Cervulus muntjac, albino at Muttra, CHARRINGTON, Field, London, **108**, (580): albino, MANNERS-SMITH, Bombay, J. Nat. Hist. Soc., **17**, (237).—*C. reevesi ping-shiangicus* subsp. n. Pinshiang, HILZHEIMER, Magdeburg, Abh. Mus. Natk., **1**, (169).

Cervus elaphus, races, with *C. e. atlanticus*, subsp. n. Norway (9), *C. e. scoticus* subsp. n. Scotland (11), LÖNNBERG, Ark. Zool., Stockholm, **3**, art. 9, CAMERON, Field, London, **107** (419); semiplacenta-multiplex, STRAILL, Anat. Hefte, Wiesbaden, Abth. i, **31** (199).—*C. affinis*, habitat, LYDEKKER, Field, London, **108**, (651), IGGULDEN, T.c. (736).—*C. canadensis*, antlers, SETON, Scribner's Magazine, New York, N.Y., **39**, (15).—*C. unicolor*, antlers, INVERARITY, Bombay, J. Nat. Hist. Soc., **17**, (23).—*C. axis*, abnormal antlers, Anon.,

Field, London, **108**, (579).—*C. [?] mexicanus*, type antlers, OSGOOD, Washington, D.C., Proc. Biol. Soc., **19**, (87).—†*C. (Megaceros) giganteus*, allied to *Rangifer*, LÖNNBERG, Stockholm, Ark. Zool., **3**, No. 14, (1-8); this conclusion disputed, LYDEKKER, Field, London, **108**, (540).

Hippocamelus pandora, this name given by G. M. Allen, Cambridge, Mass., Bull. Mus. Comp. Zool., Harvard Coll., **50**, (108), to *Mazama pandora*, Merriam, 1901.

Hydropotes kreyenbergi, skull figured, HILZHEIMER, Magdeburg, Abh. Mus. Natk., **1**, 1906, (171, pl. ii).

Muntiacus bancanus sp. n. Banka, LION, Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **31** (582).

Odocoileus americanus, SETON, Scribner's Magazine, New York, **40**, (321).

Rangifer tarandus, remains from Krain, Hungary, HILBER, Wien, Mt. Anthrop. Ges. **36** (136), from Pleistocene of Olai, Russia, SCHWEDER, Riga, Korr.-blt. naturf. Ver., **49**, (17); harmful to forests, LUND, Norsk. Landm., Kristiania, **25**, (247); fighting, BLANCHARD, Paris, Bul. soc. zool., **29**, 1904, (230); in Alaska, JACKSON, Fifteenth Report on introduction of Reindeer, Washington, 1906, (174); habits of Caribou, SETON, Scribner's Magazine, New York, **39**, (426).

CAMELIDAE AND TRAGULIDAE.

(Recherches anatomiques sur les Camélidés, LESBRE, F. X., Arch. Muséum hist. nat., Lyon, **8**, 1903, [1^{er} Mémoire], (195, av. fig.).)

Auchenia lama and *A. vicuna*, cephalic nerves. SCHUMACHER, Anat. Anz., Jena, **28**, (156).

†*Brachypsalis simplicidens* sp. n. Wyoming-Nebraska Miocene, PETERSON, Pittsburg, Pa., Ann. Carnegie Mus., **4**, (44).

Camelus bactrianus. Fall eines rippenartigen Querfortsatzes am ersten Lendenwirbel; PFÜTZENREUTER, Königsberg i. Pr., 1904, (28).

Dorcatherium aquaticum cottoni Ituri forest, *D. a. batesi* Cameroons, **subsp. n.**, LYDEKKER, London, Proc. Zool. Soc., **1906**, (113).

Lama ricina, protection of, STRASSBERGER, Zool. Beob. Frankfurt a.-M., **47**, (56).

†*Stenomylus* **gen. n.**, *gracilis* **sp. n.** Wyoming-Nebraska Miocene, PETERSON, Pittsburg, Pa., Ann. Carnegie Mus., **4**, (41).

Tragulus meminna, placenta, BARBIERI, Anat. Anz., Jena, **28**, (327); venous system, McCLURE, op. cit. **29**, (375).—*T. bancanus* Banka (576), *billitonis* Billiton (578), *luticeollis* Banka (579), LYON, Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **31**.—*T. carinatae* Karimata Id., MILLER, T.c. (55).—*T. nigrocinctus* Pulo Kundor (250), *perflarus* Batam Id. (251), *pretellus* Pulo Bakong (253), MILLER, T.c. **sp. n.**

SUIDAE AND DICOTYLIDAE.

Sus scrofa, development of brain, BRADLEY, J. Anat. Physiol., London, **40**, (133); of eye, KEIL, Anat. Hefte, Wiesbaden, Abth. 1, **32**, (1); interbreeding of wild and tame, SCHMALTZ, Wild u. Hund, Berlin, **12**, (346); Aortic arches, LEWIS, Anat. Anz., Jena, **28**, (506); development of lungs, FLINT, op. cit. **29**, (24); corpus collosum, DORELLO, Roma, Ric. Lab. anat. norm., **9**, pt. 3, 1903, (177); inheritance of coat-colour, SPILLMAN, Science, New York, N.Y., **24**, (441); development of salivary glands, THRO, T.c. (298); do. of genitalia, ANCEL and BOUX, C.-R. Ass. anat. 6th session (Toulouse), Nancy, 1904, (47); interbreeding of wild and domesticated races, MAU, Wild u. Hund, Berlin, **12**, (394); abnormality in foot, OLIVER, Paris, Bul. soc. zool., **29**, 1904, (148); dental abnormality, SCHMALTZ, Berliner tier-ärztl. Wochenschr., **1906**, (11).—*S. oi*, notes on, KLOSS, Singapore, J. Straits Branch of Asiatic Soc., **45**, (56).—*S. gargantua* S. Borneo (743), *jubatus* Trong Siam (745), *jubatus* Pulo Teratan (746), *rhionis* Rhio group (749), *peninsularis* Malay Peninsula (749), *niadensis* Nias Id. (751), *babi* Pulo Babi (752), *mimus* Simalur Id. (753); MILLER, Washington, D.C., Smithsonian

Inst., Nation. Mus. Proc., **30**, 1906, **sp. n.**

Potamochoerus and *Hylochoerus* notes on, ROTHSCILD, London, Proc. Zool. Soc., **1906**, (632).

Hylochoerus meinertzhageni description of specimens from the Nandi Forest, ROTHSCILD, M. and NEUVILLE, Bul. soc. philom., Paris, sér. 9, **8**, (141).—*H. rimator* Cameroons, THOMAS, London, Proc. Zool. Soc., **1906**, (2, 3).—*H. ituriensis* Ituri Forest, MATSCHKE, Etudes sur la Faune Mammalogique du Congo (Ann. Mus. Congo, Brussels, Zool. ser. 5), Oct. 1, 1906, (9), **sp. n.**

†*Thinohyus* (*Bothrolabis*) *siouxensis* **sp. n.** Miocene Nebraska, PETERSON, Pittsburg, Mem. Carnegie Mus., **2**, (308).

HIPPOPOTAMIDAE.

Hippotamus minutus, skeleton, BATE, Geol. Mag., London, decade 5, **3**, (241).

†ANTHRACOTHERIIDAE.

†*Brachyodus eluai* **sp. n.** Oligocene Tarrega, Spain, DEFÉRET, Barcelona, Mem. R. Ac. Cs., ser. 3, **5**, (402).

†*Ancodon parvus* **sp. n.** Eocene Egypt, ANDREWS Descriptive Cat. Tertiary Vertebrata of the Fayum, Egypt. (189).

†*Rhagatherium aegyptiacum* **sp. n.** ANDREWS, T.c. (192).

†MERYCOIDODONTIDAE.

†*Mesoreodon melagodon* [= *megulodon*] **sp. n.** Wyoming-Nebraska Miocene, PETERSON, Pittsburg, Pa., Ann. Carnegie Mus., **4**, (24).

†*Meryciododon culbertsoni* Leidy, the earliest name for the "Oreodont" group, DOUGLASS, Science, New York, N.Y., **24**, (565).—*M. gracilis* Oligocene Dakota, skeleton, GILMORE, Washington, D.C., Smithsonian Inst. U. S. Nation. Mus. Proc., **31**, (513).

†*Merychys harrisonensis* (37), *minus* (67), **sp. n.** Wyoming Nebraska Miocene, PETERSON, Pittsburg, Pa., Ann. Carnegie Mus., **4**.

†*Phenacocoelus* gen. n., *typus* sp. n. Wyoming-Nebraska Miocene, PETERSON, T.c. (24).

†*Promerychoerus carriheri* (26), *rantassensis* (36), Wyoming-Nebraska Miocene, spp. n., PETERSON, T.c.

B.—Perissodactyla.

EQUIDAE.

Miocene *Equidae* of S. Dakota, MATTHEW and GIDLEY, New York, N.Y. Bull. Amer. Mus. Nat. Hist., **22**, (135).

†*Archaeohippus* gen. n., Mascall beds, Oregon, GIDLEY, T.c. (385).

Equus caballus, horn-like structures, CUNNINGHAM, London, Proc. Zool. Soc., **1905**, **2**, (323); origin of Tarpan, EWART, Edinburgh, Proc. R. Soc., **26**, (7); colour-inheritance, HURST, London, Proc. R. Soc., B., **77**, (388), WELDON, T.c. (394); Weight of colts, NATHUSIUS, Pferdezucht, Stuttgart, **2**, (227); genealogy of Thoroughbred, RIDGEWAY, Cambridge Rev., **27**, (254); anatomy, ELLENBERGER, BAUM, und DITTRICH Handbuch d. Anat. d. Tiere für Künstler; 1. Pferd, Leipzig, 1906; histology of nose, KORMAN, Anat. Anz., Jena, **28**, (5); anatomy, DISSELHORST, Die Anatomie, etc.; incisors, development, MEEK, Newcastle, Proc. Univ. Durham, Phil. Soc., **1**, (45); strength of bones, KRAEMER, D. landw. Tierzucht, Leipzig, **10**, (5, 17, 30); domestication, KRAEMER, T.c. (37); leucocytes, ZIETZSCHMANN, Intern. Monatschr. Anat., Leipzig, **22**, 1905, (1); mechanism of hoof, KÖSTERS, Zs. Veterinärk., Berlin, **15**, 1903, (300, 337); microchelism, KUKULJEVIĆ, Állatorv. L., Budapest, **29**, (553); early history, VAETH, Karlsruhe, Mitt. Ver. Tierärzte, **4**, 1904, (124, 133, 149); Horse of Schlettstadt (Alsace), HILZHEIMER, Strassburg, Mitt. Philom. Ges. Elsass.-Lothr., **3**, (363); West Norwegian breed, NORDANG, Kristiania, Tidssk. norsk. Landb., **13**, (482, 563); breeds, WRANGEL, Die Rassen des Pferdes; ihre Entstehung, geschichtliche Entwicklung und charakteristische Kennzeichen, Lfg 1, Stuttgart 1906; SCHOENBECK, Rassen-Typen des Pferdes. Ueberblick über die wichtigsten Pferderassen der Erde. Berlin, 1906; skeleton, BESSKÓ,

Über die Pferde der ungarischen Nation aus der Landeseroberungszeit, Cranio-metrische Studie, Budapest, 1906; the Arab horse, BORDEN, New York (xx + 104); influence of English Thoroughbred in Hungary, PÖSCHL, Állatorv. L., Budapest, **29**, (517); mechanism of hoof, HEIZER, T.c. (385, 398, 410); mechanism of limb-bones, SCHMALTZ, Berliner tierärztl. Wochenschr., **1906**, (257); arteries and nerves, SUCHORUČKIN, Die Arterien etc., (Russ.), Jurjev, 1905; early domestication, ANDREE, Globus, Braunschweig, **90**, (224); cellules interstitielles de l'ovaire, AIMÉ, Paris, C.-R. soc. biol., **61**, (250), and Réunion biol., Nancy, **1906**, (50); hypophysis cerebri, LIVON, Paris, C.-R. soc. biol., **60**, (1159), and Réunion biol., Marseille, **1906**, (45); osteology of Italian breeds, REGUIA, Firenze, Archivio soc. it. Antrop. Etnol., **35**, 1905, (147).—*E. przewalskii* in Paris, TROCESSART, Bul. Muséum, Paris, **1906**, (359).—*E. annectans* sp. n. N. E. Rhodesia, ROTHSCHILD, W., London, Proc. Zool. Soc., **1906**, (691).—*E. quagga* and *E. burchelli*, Paris specimens, TROCESSART, Bul. Muséum, Paris, **1906**, (149).

Hippotigris muansae sp. n. German E. Africa, MATSCHIE, Weidwerk in Wort und Bild, Berlin, 1906, (235).

†*Neohipparion dolichops* Miocene, S. Dakota (148), N. (?) *neobrarense* Miocene Nebraska (151), spp. n. MATTHEW and GIDLEY, New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**.

†*Parahippus nebrascensis* sp. n. Nebraska Miocene, PETERSON, Pittsburg, Pa., Ann. Carnegie Mus., **4**, (57).

†*Protohippus simus* sp. n. Miocene S. Dakota, MATTHEW and GIDLEY, New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, (139).

RHINOCEROTIDAE.

†*Aceratherium schlosseri* (341), *samium* (354), spp. n. Tertiary Samos, WEBER, Moskva, Bull. Soc. Nat., **1904**, (1905).

†*Diceratherium arikarense* sp. n. Miocene Nebraska, BARBOUR, Science, New York, N.Y., **24**, (780).—*D. niobrarensis* (281), *cooki* (282), spp. n. Miocene Nebraska, PETERSON, T.c.

†*Rhinoceros mercki* in Saurland, SCHROEDER, Berlin, Jahrb. Preuss. Geol. Landesanst., **31**, (212).—*R.* sp. Italian Tertiary, SACCO, Torino, Mem. Acc. Sci., ser. 2, **56**, (105).—*R. hundsheimensis* dentition, TOULA, Wien, Abh. Geol. Rchs. Anst., **20**, art. 2.—*R. mercki heggenensis* Heggen Saurland (25), *schleiermacheri pikermiensis* Pikermi. s. *sanius*, Samos, *megarhinus brachycephala* Montpellier (34), **subsp. n.**; *R. lugdunensis* Lyons, *rousillonensis* Rousillon, *imolensis* Imola (35) **spp. n.**; *R. megarhinus giogoensis* Monte Giogo (36), *R. mercki jersheimensis* Jerxheim (37), *R. etruscus pakefieldensis* Pakefield Forest-bed (descrip. of pl. ii), **subsp. n.**; TOULA, Wien, Abh. Geol. Rchs. Anst., **20**, art. 2.

TAPIRIDAE AND †UINTATHERIIDAE.

Tapirus indicus, notes, figure, captive specimen, FERRIS, Bombay, J. Nat. Hist. Soc., **17**, (242).—*T. cristatellus* sp. n. Pleistocene Lagoa Santa, WINGE, Kjöbenhavn, E. Museo Lundii, **30**, (43).

Dinoceras, nature of horns, WASMUTH, Riga, Korr.-blt. Naturf. Ver., **48**, 1905, (61).

C.—Hyracoidea.

(*Dendrohyrax terricola*, MOLLISON, Morph. Jahrb., Leipzig, **34**, 1905, (240–245, mit 1 Taf.).)

Hyrax slatini sp. n. Gondokoro, SASSI, Wien, Sitz. Ber. Ak. Wiss., **115**, (995).

Procavia abyssinica, note on, MOREAU, Paris, Bul. soc. zool., **27**, 1902, (212).

†*Saghattherium majus* sp. n. Eocene, Egypt, ANDREWS, Descriptive Cat. Tertiary, Fayum, (91).—*S.* milk-dentition, OSBORN, New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, (263).

D.—Proboscidea.

Elephas, structure of ivory and specific differences in same, GEBHARDT, Anat. Anz., Jena, **29**, Suppl. 1906, (215).—*E.* spp., LUCAS, Maryland Geol. Surv., Pliocene and Pleistocene, Baltimore, 1906, (149).—*E.* (and *Procavia*), placenta, ASSHETON, London, Phil. Trans. R. Soc., B **198**, (143).—*E. maximus*, absence of pleural

cavity, BOAZ, Morph. Jahrb., Leipzig, **35**, (494), and SCHMALTZ, op. cit. **36**, (92); form of body-cavity, RUGE, op. cit. **35**, (496).—*E.*, tusks, GEBHARDT, Anat. Anz., Jena, **29**, 1906, (218).—†*E. primigenius*, in Aa Valley, France, PONTIER, Naturaliste, Paris, **28**, (251); osteology PFIZENMAYER, St. Petersburg, Verh. Russ. Mineral. Ges., **43**, 1905, (521); extinction, etc., STROMER, CorrBl. D. Ges. Anthr., **37**, (48); St. Petersburg specimen, OLIVIER, Rev. Sci. Bourbon., Moulins, (64), and Nat. Canad., Quebec, **33**, (179).—†*E. antiquus* in Japan, TOKUNAGA, Tokyo, J. Coll. Sci., **21**, art. 2, (72); in Gard., France, LOMBARD-DUMAS, Nîmes, Bul. soc. étud. sci. nat., **33**, (69).—*E. africanus*, mounted specimen at British Museum, ANON, Times, August 2nd, 1906; status of in Brit. E. Africa and Uganda, SCHÜTZE, Globus, Braunschweig, **89**, (141).—*E. africanus albertensis* subsp. n. Albert Nyanza district, LYDEKKER, Field, London, **107**, (1089).—*E. africanus pumilio* subsp. n. Congo Territory, NOACK, Zool. Anz., Leipzig, **29**, (631).—†*E.* and *Mastodon* from Maryland Pleistocene, LUCAS, Maryland Geol. Surv., Baltimore, **1906**, (149).

†*Mammut americanum*, mounted skeleton, GILMORE, Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **30**, (607–611).

†*Mastodon* sp., tooth from gravel at Barkly West S. Africa, BECK, Geol. Mag., London, decade 5, **3**, (49).

SIRENIA.

Observations on Sirenians, BOLAU, Anleitung etc., 1906, (520).

†Of Egyptian Eocene, ANDREWS, Descriptive Cat. Tertiary Fayum.

Milk-dentition, ABEL, N. Jahrb. Min., Stuttgart, Geol. u. Pal., **1906**, 2, (50).

†*Desmotylus*, distribution, MERRIAM, Science, New York, N.Y., **24**, (151).

Halicore dugong, morphology, habits, etc., DEXLER and FREUND, Amer. Nat., Boston. Mass., **40**, (49, 567), and Arch. Natg., Berlin, **72**, pt. 1, (77); ANNANDALE, Calcutta, J. As. Soc. Beng., ser. 2, **1**, (238).

Rhytina gigas, history, GREVÉ, Riga, Korr.-blt. Naturf. Ver., **48**, 1905, (145).

CETACEA.

Observations on, BOLAU, Anleitung zu wissenschaftlichen Beobachtungen etc., (520); MONACO, Prince of, London, Proc. R. Inst., **17**, (547); hyperphalangism and polydactylism, SYMINGTON, J. Anat. Physiol., London, **40**, (100); Cetaceans of S. Georgia, LÖNNBERG, Stockholm, Vet. Ak. Handl., **40**, No. 5; of Egyptian Eocene, ANDREWS, Descriptive Cat.; Whaling, CASTILLO, La Caza de la Ballena, etc.; LAW, The Cruise of the Neptune, (249-282); BROWN, The Voyage of the Scotia; SOUTHWELL, Norwich, Trans. Nat. Hist. Soc., **8**, (202), Zoologist, ser. 4, **10**, (41), Ann. Scot. Nat. Hist., Edinburgh, **1906**, (193).

British Cetaceans, MILLAIS, The Mammals of Great Britain and Ireland, **3**; Cetaceans stranded at Escaut, Belgium in 1577, DE PAUW and WILLEMSSEN, St. Nicolas, Ann. Circle archéol. du Pays de Waes, **33**, pt. 2, 1905; histology of eye, RAWITZ, Intern. Monatschr. Anat., Leipzig, **22**, 1905, (265); microscopic structure of hair, RAWITZ, Intern. Monatschr. Anat., Leipzig, **23**, (19).

(Cetacean bones, EASTMAN, Cambridge, Mass., Bull. Mus. Comp. Zool., **50**, (73).)

†Tertiary Cetaceans of Comtat, Vaucluse, JOLEAUD, Avignon Mém. Acad., ser. 2, **6**, (363).

A.—Mystacoceti.

Megaptera sp., captured at Mersey in 1299, HARTING, Essex Nat., Stratford, **14**, (149).

Balaenoptera musculus, structure, VIRCHOW, Berlin, SitzBer. Ges. natf. Freunde, **1906**, (190).

(*Balaenoptera physalus* à Cette, ANTHONY et CALVET, Paris, Bul. soc. philom., **7**, (75-85).)

B.—Odontoceti.

†*Odontoceti* of Antwerp Miocene, ABEL, Mém. Mus. Belgique, Bruxelles, **3**, 1905, (1).

Digestive tract, CATTANEO, Milano, Rend. Ist., Lomb., ser. 2, **36**, 1903, (943).

†*Aerodelphis macrospondylus* sp. n. Miocene Antwerp, ABEL, Mém. Mus. Belgique, Bruxelles, **3**, 1905, (135).

†*Cetorhynchus atarus* sp. n. Miocene Antwerp, ABEL, T.c. (96).

Delphinus delphis, regeneration in ovary, PALADINO, Napoli, Rend. Acc. sc., ser. 3, **9**, 1903, (12).—*D. (Lagenorhynchus) acutus* on Scottish Coast, TURNER, Ann. Scot. Nat. Hist. Soc., Edinburgh, **1906**, (59).

Grampus, *Steno*, *Globicephalus*, brain, PETTIT, Résult. Campagnes Scient. Prince Albert, Monaco, No. 31, 1905.

Grampus griseus on Italian coast, CARRUCCIO, Roma Boll. Soc. Zool. Ital., ser. 2, **7**, (207, 241).

Hyperödon and *Delphinapterus*, notes on, COLLETT, Bergens Mus. Aarb., **1906**, art. 6.

†*Idiocetus guicciardinii* described, CAPELLINI, Bologna, Mem. Ac. Sci., ser. 6, **2**, (15).

Kogia breviceps, capture at Roscoff, France, DELAGE, Paris, C.-R. Acad. sci., **142**, (558).

Mesoplodon bidens on N. American Coast, ALLEN, G. M., Amer. Nat., Boston, Mass., **40**, (356).

†*Mioziphius* gen. n., *belgicus*, sp. n. Miocene Antwerp, ABEL, Mém. Mus. Belgique, Bruxelles, **3**, 1905, (98, 102).

Orea gladiator, shoal taken at Bildöströmmen, Norway, Jan. 1904, GRIEG, Bergens Mus. Aarb., **1906**, art. 2, measurements and description of skeleton also given.

†*Palaeoziphius* gen. n. for *Champsodelphis scaldensis* du Bus, Miocene Antwerp, ABEL, Mém. Mus. Belgique, Bruxelles, **3**, 1905, (90).

Physeter macrocephalus, specimen stranded in Ischia in 1770, MONTICELLI, Napoli, Annuario Museo zool., ser. 2, No. 13, (1).

†*Pithanodelphis* gen. n. for *Phocopsis cornutus* du Bus, Miocene Antwerp, ABEL, Mém. Mus. Belgique, Bruxelles, **3**, 1905, (142).

Prophyseter dolloi sp. n. Miocene Antwerp, ABEL, T.c. (83).

†*Protophocæna* gen. n., *minima* sp. n. Miocene Antwerp, ABEL, T.c. (139).

†*Prozeuglodon* gen. n., *atrox* sp. n. Eocene Egypt, ANDREWS, Descriptive Cat., etc., (243, 255).

†*Thalassocetus antwerpensis* sp. n. Miocene Antwerp, ABEL, Mém. Mus. Belgique, Bruxelles, **3**, 1905, (70).

Tursiops tursio, female stranded between Bognor and Littlehampton in September, GUERMONPREZ, Zoologist, ser. 4, **10**, (390).

†*Zeuglodon* bone described as pelvis in an Avian coracoid, ABEL, Centralbl. Min., Stuttgart, **1906**, (450).

EDENTATA.

[Edentate-like remains from Oregon [? *Ancylopoda*], SINCLAIR, Berkeley, Univ. Cal. Bull. Dept. Geol., **5**, (65).

BRADYPODIDÆ.

Adaptive characters of *Bradypodidae*, ANTHONY, Bul. Muséum, Paris, **1905**, (385).

†*Hemibradypus* gen. n., ANTHONY, Paris, C.-R. Acad. sci., **142**, (292).

†MEGALOTHERIIDÆ.

†*Pseudolestodon hexaspondylus* sp. n. Pleistocene Argentina, RAUTENBERG, Palæontographica, Stuttgart, **53**, (2).

MYRMECOPHAGIDÆ.

Myrmecophaga jubata Ohrtrompete, ZUCKERKANDL, Monatschr. Ohrenheilk., Berlin, **38**, 1904, (1).—*M. centralis* sp. n. Costa Rica, LYON, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc., **31**, (570).

Tamandua tetradactyla mexicana, de SAUSSURE, 1860, stands for *T. lennirostris*, ALEX, J. A., Washington, D.C., Proc. Biol. Soc., **19**, (200).

DASYPODIDÆ.

Spermatozoa, BALLOWITZ, Anat. Anz., (321).

Tolypoides gen. n., *bicincter* sp. n. South America, GRANDIDIER and NEVEU-LEMAIRE, Bul. Muséum, Paris, **1905**, (370).

MANIDÆ AND ORYCTERGOPIDIDÆ.

Manis pusilla sp. n. Hainan, ALLEN, J. A., New York, N.Y., Bull. Amer. Mus. Nat. Hist., **22**, (165).

Orycteropus, nature of dentition, LÖNNBERG, Ark. zool., Stockholm, **3**, art. 3; specimen at Paris, SAUVINET, Nature, Paris, **34**, (401).—*O. erikssoni* sp. n. N. Congoland, LÖNNBERG, Ark. Zool., Stockholm, **3**, art. 3, (1).—*O. leptodon* sp. n. Cameroons, HIRST, Ann. Mag. Nat. Hist., London, ser. 7, **17**, (383).

MARSUPIALIA.

Development of sexual organs, VAN DER BROEK, Anat. Anz., Jena, **28**, (579): abnormality in spinal marrow, BOLD, op. cit. **29**, (497); genital gland, VAN DER BROEK, Amsterdam, Proc. Akad. Wet., **9**, (396), and Amsterdam, Versl. Wis. Nat. Afd. K. Akad. Wet., **15**, (335).

Antechinomys spenceri sp. n. Central Australia, THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **17**, (331).

Cynolestidae (= *Epanorthidae*), Santa Crucian representatives, SINCLAIR, Rep. Princeton Exped. Patagonia, Princeton, N.J., **4**, (416).

†*Cladosictis petersoni* sp. n. Santa Cruz beds Patagonia, SINCLAIR, T.c. (391).

Dasyuroides byrnei pallidior subsp. n. S. Australia, THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **17**, (330).

Didelphyidae, homologies of styler cusps in upper molars., BENSLEY, Toronto, Stud. Univ., Biol. ser., No. 5, 1906, (1).

Didelphys marsupialis, venous system, McCURE, Amer. J. Anat., Baltimore, Md., **5**, (163).

Lagorchestes hirsutus bernieri subsp. n. Bernier Id., THOMAS, London, Proc. Zool. Soc., **1906**, (775).

†*Macropus anak* and *Procoptodon rapha* from King Id., SCOTT, Victoria Mus. Launceston, 1905 and 1906, pamphlets.

Perameles cerebral localization, CHAPMAN, Sydney, N.S.W., Proc. Linn. Soc., **31**, (493).

†*Microbiotherium*, referred to the *Didelphidae* (408), although not an ancestral form; *M. gallegosense* **sp. n.** Santa Cruz beds, Patagonia (413); SINCLAIR, Rep. Princeton, Exped. Patagonia, Princeton, N.J., **4**.

Notoryctes typhlops, eye, SWEET, Q. J. Microsc. Sci., London, ser. 2, **50**, (517).

Peroryctes **gen. n.** for *Perameles raffrayana*, THOMAS, London, Proc. Zool. Soc., **1906**, (476).

Phascogale mimulus (510), *ingrami* (511), Alexandria N. Australia, **spp. n.**, THOMAS, F.C.

†*Prothylacinus* and allied genera from the Santa Cruz beds of Patagonia referred by SINCLAIR, Rep. Princeton Univ. Exped. Patagonia, Princeton, N.J., **4**, 1906, (334-459) to the same family (*Thylaciniidae*) as existing *Thylacine*.

Pseudochirus ararus **sp. n.** Brit. New Guinea, THOMAS, Ann. Mag. Nat. Hist., London, ser. 7, **17**, (329).

Sminthopsis stalkeri **sp. n.** Alroy dist. N. Australia, THOMAS, London, Proc. Zool. Soc., **1906**, (543).

MONOTREMATA.

Monotremenolir in phylogenetischer Beziehung, DENKER, Verh. D. otol. Ges., Jena, **10**, 1901, (147).

Ueber das Kiefergelenk der Monotremen, LUBOSCH, Jenaische Zs. Natw., **41**, (519-606, mit 4 Taf.).

Echidna, mammae and pouch, BRESSLAU, Verh. D. Zool. Ges., Leipzig, **1906**, (261).

Ornithorhynchus and *Echidna*, fate of "tornia clino-orbitalis," WILSON, J. Anat. Physiol., London, **40**, (85).—*Ornithorhynchus*, development, WILSON, London, Proc. R. Soc., B, **78**, (313).

Tachylossus aculeatus ineptus **subsp. n.**, S.E. Australia, THOMAS, London Proc. Zool. Soc., **1906**, (477).

Zaglossus, hair and spines, TOLDT, Wien, Ann. Nat. Hist. Hofmus., **21**, (1). and Zool. Anz., Leipzig, **30**, (305).

LIST OF ABBREVIATIONS WITH TITLES OF THE JOURNALS.

<i>Aarsb. Norges Fiskerier, Bergen</i>	Aarsberetning vedkommend Norges Fiskerier, Bergen.	2 Nor.
<i>Aarau, Mitt. Natf. Ges. ...</i>	Mitteilungen der aargauischen naturforschenden Gesellschaft. Aarau. 8vo.	1 Swi.
<i>Abeille, Paris ...</i>	Abeille (l'). Sec. Bedel, Paris. [irrégul.]	2 Fr.
<i>Abh. geol. Specialkarte Els.-Lothr., Strassburg</i>	Abhandlungen zur geologischen Specialkarte von Elsass-Lothringen. Strassburg. [2 3 H. jährl.]	1 Ger.
<i>Acireale, Rend. Mem. Acc. Zelanti</i>	Rendiconti e Memorie della R. Arcademia degli Zelanti, Acireale.	1 It.
<i>Actes Muséum hist. nat., Rouen</i>	Actes du Muséum d'histoire naturelle. Rouen (Seine-Inférieure). [irrégul.]	5 Fr.
<i>Adelaide, S. Aust., Mem. R. Soc.</i>	Memoirs of the Royal Society of South Australia.	3 S. Aus.
<i>Adelaide, S. Aust., Proc. R. Soc.</i>	Proceedings of the Royal Society of S. Australia, Adelaide.	5 S. Aus.
<i>Adelaide, S. Aust., Trans. R. Soc.</i>	Transactions of the Royal Society of S. Australia, Adelaide.	6 S. Aus.
<i>Agric. Exp. Sta., Arizona, Tucson, Bull.</i>	University of Arizona. Arizona Agricultural Experiment Station, Tucson. Bulletin.	— U.S.
<i>Agric. Exp. Sta., California, Sacramento, Bull.</i>	University of California Publications, College of Agriculture. Agricultural Experiment Station, Sacramento. Bulletin.	— U.S.
<i>Agric. Exp. Sta., California, Sacramento, Rep.</i>	University of California publications. Report of work of the Agricultural Experiment Station of the University of California, Sacramento.	— U.S.
<i>Agric. Exp. Sta., Colorado, Fort Collins, Bull.</i>	Agricultural Experiment Station of Colorado, Fort Collins. Bulletin.	— U.S.
<i>Agric. Exp. Sta., Colorado, Fort Collins, Rep.</i>	Agricultural Experiment Station of Colorado, Fort Collins. Report.	— U.S.
<i>Agric. Exp. Sta., Cornell Univ., Bull.</i>	Agricultural Experiment Station, Cornell University. Bulletin.	— U.S.
<i>Agric. Exp. Sta., Florida, Jacksonville, Bull.</i>	Bulletin of the Experiment Station of Florida at the State Agricultural College, Jacksonville.	— U.S.

<i>Agric. Exp. Sta., Illinois, Springfield, Bull.</i>	University of Illinois Agricultural Experiment Station, Springfield. Bulletin.	— U.S.
<i>Agric. Exp. Sta., Montana, Bozeman. Rep.</i>	Agricultural Experiment Station, Montana, Bozeman. Bulletin.	— U.S.
<i>Agric. Exp. Sta., New Mexico, Las Cruces, Bull.</i>	New Mexico College of Agriculture and the mechanic Arts. Agricultural Experiment Station, Las Cruces. Bulletin.	— U.S.
<i>Agric. Exp. Sta., New York, Ithaca, Bull.</i>	Bulletin of the Agricultural Experiment Station at Ithaca, New York.	— U.S.
<i>Agric. Exp. Sta., Ohio, Columbus, Bull.</i>	Bulletin of the Ohio Agricultural Experiment Station, Columbus. Technical Series.	— U.S.
<i>Agric. Exp. Sta., Washington, Pullman, Bull.</i>	Bulletin of the Agricultural Experiment Station at Pullman, Washington.	— U.S.
<i>Agric. Exp. Sta., West Virginia, Morgantown, Bull.</i>	Bulletin of the Agricultural Experiment Station at Morgantown, West Virginia.	— U.S.
<i>Agric. Gaz., Sydney, N.S.W.</i>	Agricultural Gazette, Sydney, N.S.W. ...	1 N.S.W.
<i>Agric. Led., Calcutta ...</i>	Agricultural Ledger, Calcutta ...	1 Ind.
<i>Alabama, Bull. Geol. Surv., University P.O.</i>	Bulletin of the Geological Survey of Alabama, University P.O.	1 U.S.
<i>Albany Univ., N.Y., Mem. St. Educ. Dept. Bull. Mus.</i>	Memoirs of the New York State Museum. University of the State of New York, Albany, N.Y.	5 U.S.
<i>Albany Univ., N.Y., St. Educ. Dept. Mus. Bull.</i>	New York State Education Department. New York, State Museum Bulletin, Albany, N.Y.	4 U.S.
<i>Albany, N.Y., St. Educ. Dept., Mus. Rep.</i>	New York State Education Department. New York State Museum Annual, Report, Albany, N.Y.	6 U.S.
<i>Albany, N.Y., Trans. Alb. Inst.</i>	Transactions of the Albany Institute, Albany, N.Y.	7 U.S.
<i>Állatorv. L., Budapest ...</i>	Akademiai Értesítő, Budapest. [Akademischer Anzeiger, Budapest.]	— Hun.
<i>Állatt. Közlem., Budapest ...</i>	Állattani Közlemények, Budapest. [Zoologische Mittheilungen, Budapest.]	32 Hun.
<i>Allg. Fischereiztg, München</i>	Allgemeine Fischerei-Zeitung, red. v. Hofer u. Weigelt. München. [$\frac{1}{2}$ monatl.]	24 Ger.
<i>Allg. Forstztg, Frankfurt a. M.</i>	Allgemeine Forst- und Jagd-Zeitung, hrsg. v. Lorey. Frankfurt a. M. [monatl.] Nebst Supplement: Jahresbericht über Veröffentlichungen und wichtigere Ereignisse im Gebiete des Forstwesens etc.	25 Ger.
<i>Allg. Zs. Ent., Neudamm</i>	Allgemeine Zeitschrift für Entomologie, hrsg. v. Schroeder u. Lehmann. Neudamm. [$\frac{1}{2}$ monatl.]	34 Ger.

<i>Alnwick, Proc. Berwicks. Nat. Cl.</i>	History and Proceedings of the Berwickshire Naturalists' Club, Alnwick. Etc., etc., etc.	2 U.K.
<i>Altenburg, Mitt. Osterland...</i>	Mittheilungen aus dem Osterlande, hrsg. v. d. naturforschenden Gesellschaft des Osterlandes zu Altenburg. Altenburg. [2 jährl.]	38 Ger.
<i>Amer. Geol., Minneapolis, Minn.</i>	American Geologist, Minneapolis, Minnesota.	13 U.S.
<i>Amer. J. Anat., Baltimore, Md.</i>	The American Journal of Anatomy, Baltimore, Md.	14 U.S.
<i>Amer. J. Physiol., Boston, Mass.</i>	American Journal of Physiology, Boston, Mass.	17 U.S.
<i>Amer. J. Sci., New Haven, Conn.</i>	American Journal of Science, New Haven, Conn.	19 U.S.
<i>Amer. Mus. J., New York, N.Y.</i>	The American Museum Journal. American Museum of Natural History. New York, N.Y.	554 U.S.
<i>Amer. Nat., Boston, Mass.</i>	The American Naturalist, Boston, Mass.	21 U.S.
<i>Amer. Ornith., Worcester, Mass.</i>	American Ornithology. For the Home and School. Worcester, Mass.	570 U.S.
<i>Amiens, Bul. soc. linn. ...</i>	Bulletin de la société linnéenne du nord de la France. Amiens (Somme). [mensuel.]	28 Fr.
<i>Amsterdam, Bijdr. Dierk.</i>	Bijdragen tot de dierkunde uitgegeven door het Koninklijk Zoölogisch genootschap. Natura Artis Magistra te Amsterdam, Leiden.	— Hol.
<i>Amsterdam, Proc. Sci. K. Akad. Wet.</i>	Proceedings of the Sections of Sciences, Koninklijke Akademie van Wetenschappen, Amsterdam. Svo.	3 Hol.
<i>Amsterdam, Verh. K. Akad. Wet., 2^e Sect.</i>	Verhandelingen der Koninklijke Akademie van Wetenschappen, 2 ^e Sectie (Natuurhistorische Geologische en Medische Wetenschappen), Amsterdam. Svo.	6 Hol.
<i>Amsterdam, Versl. Med. Ned. Ornith. Ver.</i>	Verslag en Mededeelingen der ornithologische Vereeniging, Wageningen.	— Hol.
<i>Amsterdam, Versl. Wis. Nat. Afd. K. Akad. Wet.</i>	Verslag der Vergaderingen van de Wis- en Natuurkundige Afdeeling der Koninklijke Akademie van Wetenschappen, Amsterdam. Svo.	7 Hol.
<i>Anat. Anz., Jena ...</i>	Anatomischer Anzeiger. Centralblatt für die gesammte wissenschaftliche Anatomie, hrsg. v. v. Bardeleben. Jena. [zwanglos.] Nebst Ergänzungsheften.	40 Ger.
<i>Anat. Hefte, Wiesbaden ...</i>	Anatomische Hefte, hrsg. v. Merkel u. Bonnet. Wiesbaden. I. Abth.: Arbeiten aus anatomischen Instituten. [5 H. jährl.] 2. Abth.: Ergebnisse der Anatomie und Entwicklungsgeschichte. [jährl.]	41 Ger.

<i>An. cient. Parag., Asuncion</i>	Anales científicos Paraguayas, Asuncion.	— Parag.
<i>An. Mus. Chile, Santiago ...</i>	Anales del Museo nacional de Chile. Publicados por orden del Gobierno de Chile. Primera Sección Zoológica. Santiago.	— Chile
<i>An. Mus. La Plata, Buenos Aires</i>	Anales del Museo de La Plata, Buenos Aires.	— Argent.
<i>An. Mus. Mexico ...</i>	Anales del Museo nacional de México ...	— Mex.
<i>An. Mus., Montevideo ...</i>	Anales del Museo nacional de Montevideo, Montevideo.	— Urug.
<i>An. Mus. Nac., Buenos Aires</i>	Memorias do Museu Goeldi (Museu paraense) de Historia Natural e ethnographia, Pará.	— Braz.
<i>An. Mus., San Salvador ...</i>	Anales del Museo nacional, organo oficial del Instituto del mismo nombre, San Salvador.	— Salvad.
<i>Angers, Bul. soc. étud. sci.</i>	Bulletin de la société d'études scientifiques d'Angers (Maine-et-Loire). [annuel.]	33 Fr.
<i>Ann. biol. lacustre, Bruxelles</i>	Annales de Biologie Lacustre, Bruxelles.	— Bel.
<i>Ann. Fac. Sci., Marseille ...</i>	Annales de la Faculté des Sciences de Marseille (Bouches du Rhône).	50 Fr.
<i>Ann. géol. Balkan., Belgrade</i>	Annales géologiques de la péninsule Balkanique, Belgrade.	— Servia
<i>Ann. Hist.-Nat. Mus. Nat. Hung., Budapest</i>	Annales Historico-Naturales Musei Nationalis Hungarici, Budapest.	34 Hun.
<i>Ann. hyg. colon., Paris ...</i>	Annales d'hygiène et de médecine coloniales. Paris. [trimestr.]	56 Fr.
<i>Ann. igiene, Roma... ..</i>	Annali d'Igiene sperimentale, Roma ...	11 It.
<i>Ann. Inst. Pasteur, Paris...</i>	Annales de l'Institut Pasteur. Dir. Duclaux. Paris. [mensuel.]	60 Fr.
<i>Ann. Mag. Nat. Hist., London</i>	Annals and Magazine of Natural History, London.	7 U.K.
<i>Ann. Mus. Congo, Bruxelles</i>	État indépendant du Congo. Annales du Musée du Congo, publiées par ordre du Secrétaire d'état. Série II. Zoologie. (Bruxelles. 4to.)	— Bel.
<i>Ann. Mus., Marseille ...</i>	Annales du Musée de Marseille, Marseille.	— Fr.
<i>Ann. Natal Govt. Mus., London</i>	Annals of the Natal Government Museum, London.	— S. Afr.
<i>Ann. Natphilos., Leipzig ...</i>	Annalen der Naturphilosophie. Leipzig.	1285 Ger.
<i>Ann. paléont., Paris ..</i>	Annales de Paléontologie publiées sous la direction de Marcellin Boule. Paris.	— Fr.
<i>Ann. Queensland Mus., Brisbane</i>	Annals of the Queensland Museum, Brisbane.	— Queens-land.
<i>Ann. Rep. Geol. Surv. Ind., Calcutta</i>	Annual Report of the Geological Survey of India, Calcutta.	2 Ind.

<i>Ann. sci. nat. (Zool.), Paris</i>	Annales des sciences naturelles, paraît en deux parties : 1 ^o Zoologie et Paléontologie, comprenant l'anatomie, la physiologie, la classification et l'histoire naturelle des animaux. Dir. E. Perrier. Paris. [12 numéros par an.]	77 Fr.
<i>Ann. Scot. Nat. Hist., Edinburgh</i>	Annals of Scottish Natural History, Edinburgh and London.	8 U.K.
<i>Ann. Univ. Grenoble, Paris</i>	Annales de l'Université de Grenoble, publiées par les Facultés de droit, des sciences et des lettres, et par l'école de médecine. Paris. [trois numéros par an.]	81 Fr.
<i>Ann. Univ., Lyon ...</i>	Annales de l'Université. Lyon (Rhône). [irrégul.]	82 Fr.
<i>Année biol., Paris ...</i>	Année biologique. Dir. Yves Delage. Paris. [annuel.] (bibliogr.)	84 Fr.
<i>Année psychol., Paris ...</i>	Année psychologique, pub. par A. Binet. Paris. [annuel.]	87 Fr.
<i>Annot. Zool. Jap., Tōkyō ...</i>	Annotationes Zoologicae Japonenses. European languages. Tōkyō, Japan.	1 Jap.
<i>Antanan. Ann. ...</i>	Antananarivo Annual and Madagascar Magazine, Antananarivo.	—
<i>Appalachia, Boston, Mass.</i>	Appalachia, Boston, Mass. ...	25 U.S.
<i>Aquila, Budapest ...</i>	Aquila, Budapest ...	3 Hun.
<i>Arb. hirnanat. Inst. Zürich, Wiesbaden</i>	Arbeiten aus dem hirnanatomischen Institut in Zürich. Hrsg. v. C. v. Monakow. Wiesbaden. [zwangl.]	— Ger.
<i>Arcachon, Trav. soc. sci. station biol.</i>	Société scientifique et Station biologique d'Arcachon (Gironde). Travaux des Laboratoires, Paris.	— Fr.
<i>Arcachon, Trav. soc. sci. station zool.</i>	Société scientifique et Station zoologique d'Arcachon (Gironde). Travaux des Laboratoires. Paris. [annuel.]	106 Fr.
<i>Arch. anat. microsc., Paris</i>	Archives d'anatomie microscopique. Dir. Ranvier et Henneguy. Paris. [trimestr.]	107 Fr.
<i>Arch. Anat. Physiol., Leipzig</i>	Archiv für Anatomie und Physiologie, hrsg. v. His und Engelmann. Leipzig. 1. Anatomische Abtheilung u. d. T.: Archiv für Anatomie und Entwicklungsgeschichte, hrsg. v. His. 2. Physiologische Abtheilung u. d. T.: Archiv für Physiologie, hrsg. v. Engelmann, [jede Abth. 2 monatl.]	52 Ger.
<i>Arch. Anthr., Braunschweig</i>	Archiv für Anthropologie, hrsg. v. Ranke. Braunschweig. [$\frac{1}{4}$ jährl.]	53 Ger.
<i>Arch. Anthr. Schlesw.-Holst., Kiel</i>	Archiv für Anthropologie und Geologie Schleswig-Holsteins und der benachbarten Gebiete, hrsg. v. Mestorf u. Haas. Kiel. [1 H. jährl.]	54 Ger.

<i>Arch. Augenheilk., Wiesbaden</i>	Archiv für Augenheilkunde, hrsg. v. Knapp u. Schweigger. Wiesbaden. [8 H. jährl.]	56 Ger.
<i>Arch. biol., Paris-Liège ...</i>	Archives de Biologie. Réd. E. Van Beneden et Ch. Van Bambeke. Paris-Liège. [trimestr.]	109 Fr.
<i>Arch. Biont., Berlin ...</i>	Archiv für Biontologie. Hrsg. v. d. Gesellschaft naturforschender Freunde in Berlin. Berlin. [zwangl.]	— Ger.
<i>Arch. EntwMech., Leipzig</i>	Archiv für Entwicklungsmechanik der Organismen, hrsg. v. Roux. Leipzig. [$\frac{1}{4}$ jährl.]	60 Ger.
<i>Arch. exper. Path., Leipzig</i>	Archiv für experimentelle Pathologie und Pharmakologie, red. v. Naunyn u. Schmiedeberg. Leipzig. [9–12 H. jährl.]	61 Ger.
<i>Arch. ges. Physiol., Bonn...</i>	Archiv für die gesammte Physiologie des Menschen und der Thiere, hrsg. v. Pflüger. Bonn. [48 H. jährl.]	63 Ger.
<i>Arch. Hydrobiol., Stuttgart</i>	Archiv für Hydrobiologie und Planktonkunde. (N. F. der Forschungsberichte a. d. biolog. Station zu Plön.) Hrsg. v. O. Zacharias. Stuttgart. [$\frac{1}{4}$ jährl.]	— Ger.
<i>Arch. ital. biol., Torino ...</i>	Archives italiennes de biologie, Torino...	16 It.
<i>Arch. Laryng., Berlin ...</i>	Archiv für Laryngologie und Rhinologie, hrsg. v. Fränkel. Berlin. [3–4 H. jährl.]	74 Ger.
<i>Arch. Math. Naturv., Kristiania</i>	Archiv for Mathematik og Naturvidenskab, Kristiania.	3 Nor.
<i>Arch. mikr. Anat., Bonn ...</i>	Archiv für mikroskopische Anatomie und Entwicklungsgeschichte, hrsg. v. Hertwig, la Valette St. George u. Waldeyer. Bonn. [4–8 H. jährl.]	77 Ger.
<i>Arch. miss. sci. litt., Paris</i>	Archives des missions scientifiques et littéraires. Paris. [irrégul.]	125 Fr.
<i>Arch. Muséum hist. nat., Lyon</i>	Archives du Muséum d'histoire naturelle. Lyon (Rhône).	126 Fr.
<i>Arch. Mus., Rio de Janeiro</i>	Archivos do Museu Nacional do Rio de Janeiro.	— Braz.
<i>Arch. Natg., Berlin ...</i>	Archiv für Naturgeschichte, hrsg. v. Hilgendorf. Berlin. [6 H. jährl.]	78 Ger.
<i>Arch. Natw. LdDurchf. Böhmen, Prag</i>	Archiv der Naturwissenschaftlichen Landesdurchforschung von Böhmen. Prag. [zwanglos.]	26 Aus.
<i>Arch. Ohrenheilk., Leipzig</i>	Archiv für Ohrenheilkunde, hrsg. v. Tröltzsch etc. Leipzig. [7 H. jährl.]	79 Ger.
<i>Arch. parasit., Paris ...</i>	Archives de parasitologie. Réd. R. Blanchard. Paris. [trimestr.]	129 Fr.
<i>Arch. Protistenkunde, Jena</i>	Archiv für Protistenkunde, hrsg. v. F. Schaudinn. Jena.	1284 Ger.
<i>Arch. R. Inst. Bact., Lisboa</i>	Archivos do real Instituto bacteriologico Camara Pestana, Lisboa.	— Por.

<i>Arch. Rassenbiol., Berlin ...</i>	Archiv für Rassen- und Gesellschafts- biologie einschliesslich Rassen- und Gesellschaftshygiene. Hrsg. v. A. Ploetz. Berlin. [2 monatl.]	— Ger.
<i>Arch. sc. biol., St. Peter- burg</i>	Архивъ біологическихъ наукъ. С.- Петербургъ [Archives des sciences biologiques. St.-Petersbourg].	4 Rus.
<i>Arch. Schiffshyg., Leipzig...</i>	Archiv für Schiffs- und Tropenhygiene, hrsg. v. Mense. Leipzig. [2 monatl.]	86 Ger.
<i>Arch. Sci. Phys., Genève ...</i>	Archives des sciences physiques et naturelles. Genève, Lausanne et Paris. Svo.	10 Swi.
<i>Arch. Thierheilk., Berlin ...</i>	Archiv für wissenschaftliche und praktische Thierheilkunde, hrsg. v. Danmann etc. Berlin. [2 monatl.]	87 Ger.
<i>Arch. zool., Paris ...</i>	Archives de zoologie expérimentale et générale. Fond. H. de Lacaze- Duthiers (avec "Notes et Revue"). Paris. [trimestr.]	136 Fr.
<i>Archives polon. biol. méd., Lwów</i>	Archives polonaises des Sciences biolo- giques et médicales, red. H. Kadyi, Lwów. Svo. [irregular.]	61 Pol.
<i>Archivio fisiol., Firenze ...</i>	Archivio di fisiologia, Firenze ...	272 It.
<i>Archivio ital. anat. em- briol., Firenze</i>	Archivio italiano d'anatomia e d'embrio- logia, Firenze.	273 It.
<i>Archivio sc. med., Torino...</i>	Archivio per le scienze mediche, Torino.	22 It.
<i>Archivio zool., Napoli ...</i>	Archivio zoologico, Napoli ...	275 It.
<i>Ark. Zool., Stockholm ...</i>	Arkiv för zoologie utgifvet af K. Svenska Vetenskapsakademien i Stockholm. Svo.	— Swe.
<i>Aschaffenburg, Mitt. natw. Ver.</i>	Mittheilungen des naturwissenschaft- lichen Vereins zu Aschaffenburg. Jena. [zwanglos.]	91 Ger.
<i>Augsburg, Ber. natw. Ver.</i>	Bericht des naturwissenschaftlichen Vereins für Schwaben und Neuburg, früher naturhistorischen Vereins in Augsburg. Augsburg. [mehrjähr.]	96 Ger.
<i>Auk, Cambridge, Mass. ...</i>	The Auk (American Ornithologists' Union), Cambridge, Mass.	29 U.S.
<i>Aus d. Heimat, Stuttgart...</i>	Aus der Heimat. Organ des deutschen Lehrer-Vereins für Naturkunde. Stuttgart. [2 monatl.] Nebst Beilage: Schriften des deutschen Lehrervereins für Naturkunde. [jähr.]	100 Ger.
<i>Aus d. Natur, Stuttgart ...</i>	Aus der Natur. Zeitschrift für alle Naturfreunde. Hrsg. v. W. Schoe- nichen. Stuttgart. [$\frac{1}{2}$ monatl.]	— Ger.
<i>Austin, Bull. Univ. Tex. ...</i>	Bulletin of the University of Texas. Austin, Texas.	— U.S.
<i>Austin, Cont. Zool. Lab. Univ. Tex.</i>	Contributions from the Zoological Laboratory of the University of Texas, Austin,	30 U.S.

<i>Austin, Trans. Texas Acad. Sci.</i>	Transactions of the Texas Academy of Science, Austin.	32 U.S.
<i>Autun, Bul. soc. hist. nat....</i>	Bulletin de la société d'histoire naturelle. Autun (Saône-et-Loire).	149 Fr.
<i>Auxerre, Bul. soc. sci. hist. nat.</i>	Bulletin de la société des sciences historiques et naturelles de l'Yonne. Auxerre (Yonne).	152 Fr.
<i>Avicula, Siena</i>	Avicula, giornale ornitologico italiano, Siena.	27 It.
<i>Avicult. Mag., Brighton ...</i>	The Avicultural Magazine, being the Journal of the Avicultural Society for the study of foreign and British birds, Brighton.	18 U.K.
<i>Aviculteur, Paris</i>	Aviculteur (l'). Dir. de Perpigna. Paris. [mensuel.]	156 Fr.
<i>Avignon, Mém. Acad. ...</i>	Mémoires de l'Académie de Vaucluse. Avignon (Vaucluse). [trimestr.]	157 Fr.
<i>Bagnères de Bigorre, Bul. soc. Ramond</i>	Bulletin de la société Ramond. Bagnères de Bigorre (Hautes-Pyrénées) Toulouse. [trimestr.]	159 Fr.
<i>Baltimore, Md., Johns Hopkins Univ. Cir.</i>	Johns Hopkins University Circulars, Baltimore, Md.	36 U.S.
<i>Baltimore, Md., Mem. Biol. Lab., Johns Hopkins Univ.</i>	Memoirs from the Biological Laboratory of the Johns Hopkins University, Baltimore, Md.	37 U.S.
<i>Baltimore, Md., Proc. Ass. Amer. Anat.</i>	Proceedings of the Association of American Anatomists. [Included in Amer. J. Anat., Baltimore, Md.]	556 U.S.
<i>Baltimore, Md., Stud. Biol. Lab., Johns Hopkins Univ.</i>	Studies from the Biological Laboratory, Johns Hopkins University, Baltimore, Md.	38 U.S.
<i>Baltimore, Trans. Md. Acad. Sci.</i>	Transactions of the Maryland Academy of Science, Baltimore.	39 U.S.
<i>Bamberg, Ber. natf. Ges. ...</i>	Bericht der naturforschenden Gesellschaft in Bamberg. [3 jähr.]	111 Ger.
<i>Barcelona, Bol. R. Ac. Cs.</i>	Boletín de la Real Academia de Ciencias y Artes de Barcelona. Barcelona.	— Spain
<i>Barcelona, Mem. R. Ac. Cs.</i>	Memorias de la Real Academia de Ciencias y Artes de Barcelona.	— Spain
<i>Barrow, Rep. Nat. F. Cl. ...</i>	Report and Proceedings of the Barrow Naturalists' Field Club, Barrow-in-Furness. 8vo.	21 U.K.
<i>Basel, Abh. Schweiz. Pal. Ges.</i>	Abhandlungen der schweizerischen paläontologischen Gesellschaft. Mémoires de la Société paléontologique suisse. Basel und Genf. 4to.	2 Swi.
<i>Basel, Verh. Natf. Ges. ...</i>	Verhandlungen der naturforschenden Gesellschaft in Basel. Basel. 8vo.	11 Swi.
<i>Batavia, Geneesk. Tijdschr. Ned. Ind.</i>	Geneeskundig Tijdschrift voor Nederlandsch-Indië uitgegeven door de Vereeniging ter bevordering der Geneeskundige Wetenschappen in Nederlandsch-Indië, Batavia. 8vo.	10 Hol.

<i>Batavia, Nat. Tijdschr.</i> ...	Natuurkundig Tijdschrift voor Nederlandsch-Indië uitgegeven door de Koninklijke natuurkundige Vereeniging, Batavia. 8vo.	11 Hol.
<i>Bath, Proc. Nat. Hist. F. Cl.</i>	Proceedings of the Bath Natural History and Antiquarian Field Club, Bath.	22 U.K.
<i>Bayr. Forstztg, Nürnberg...</i>	Bayerische Forst- und Jagd-Zeitung. Nürnberg. [36 H. jährl.]	118 Ger.
<i>Beitr. chem. Physiol., Braunschweig</i>	Beiträge zur chemischen Physiologie und Pathologie. Zeitschrift für die gesammte Biochemie, hrsg. von F. Hofmeister. Braunschweig. [zwanglos.]	1258 Ger.
<i>Beitr. Natk. Preussen, Königsberg</i>	Beiträge zur Naturkunde Preussens, hrsg. v. d. physikalisch-ökonomischen Gesellschaft zu Königsberg. Königsberg. [zwanglos.]	135 Ger.
<i>Beitr. path. Anat., Jena ...</i>	Beiträge zur pathologischen Anatomie und zur allgemeinen Pathologie, red. v. Ziegler. Jena. [6 H. jährl.]	137 Ger.
<i>Belfast, Rep. Nat. F. Cl. ..</i>	Report and Proceedings of the Belfast Naturalists' Field Club, Belfast.	24 U.K.
<i>Belfast, Rep. Nat. Hist. Phil. Soc.</i>	Report and Proceedings of the Belfast Natural History and Philosophical Society, Belfast.	26 U.K.
<i>Beograd, Spom. Srpska Ak.</i>	Srpska Kraljevska Akademija. Spomenik. Beograd.	— Servia
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<i>Grenoble, Bul. soc. stat. sci. nat. arts. ind.</i>	Bulletin de la société de statistique, des sciences naturelles et des arts industriels de l'Isère. Grenoble (Isère). [trimestr.]	367 Fr.
<i>Guernsey, Rep. Soc. Nat. Sci.</i>	Report and Transactions of the Guernsey Society of Natural Science, Guernsey.	146 U.K.
<i>Güstrow, Arch. Ver. Natg.</i>	Archiv des Vereins der Freunde der Naturgeschichte in Mecklenburg. Güstrow. [jähr.]	537 Ger.
<i>Haarlem, Arch. Mus. Teyler</i>	Archives du Musée Teyler, Haarlem. 8vo.	21 Hol.
<i>Haarlem, Arch. Néerl. Sci. Soc. Holl.</i>	Archives Néerlandaises des Sciences exactes et naturelles publiées par la Société Hollandaise des Sciences, Haarlem. 8vo.	22 Hol.
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<i>Habana, An. Ac. Cs.</i> ...	Anales de la real Academia de ciencias medicas, fisicas y naturales de la Habana.	— Havan
<i>Halifax Nat.</i> ...	The Halifax Naturalist and Record of the Scientific Society, Halifax.	147 U.K.
<i>Halifax, N.S., Proc. & Trans. Nova Scotian Inst. Sci.</i>	Proceedings and Transactions of the Nova Scotian Institute of Science, Halifax, N.S.	13 Can.
<i>Halle, Abh. natf. Ges.</i> ...	Abhandlungen der naturforschenden Gesellschaft zu Halle. Halle. [zwanglos.]	542 Ger.
<i>Halle, Leopoldina</i> ...	Leopoldina. Amtl. Organ der kais. Leopoldinisch-Carolinischen deutschen Akademie der Naturforscher, Halle. Leipzig. [15 Nrn jährl.]	546 Ger.
<i>Halle, Nova Acta Leop.</i> ...	Nova Acta academiae caesar. Leopoldino-Carolinae naturae curiosorum. Abhandlungen der kaiserl. Leopoldinisch-Carolinischen deutschen Akademie der Naturforscher, Halle. Leipzig. [jähr. in zwangl. H.]	548 Ger.
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<i>Hannover, Jahrb. Prov. Mus.</i>	Jahrbuch des Provinzial-Museums zu Hannover. Hannover. [jähr.]	— Ger.
<i>Hamburg, Jahrb. wiss. Anst.</i>	Jahrbuch der Hamburgischen wissenschaftlichen Anstalten. Hamburg. [jähr.] Nebst Beiheften.	553 Ger.
<i>Hamburg, Verh. natur. Ver.</i>	Verhandlungen des naturwissenschaftlichen Vereins in Hamburg-Altona. Hamburg. [jähr.]	559 Ger.
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<i>Harvard Psych. Stud., Boston, Mass.</i>	Harvard Psychological Studies. Ed. by Hugo Münsterberg. Boston and New York.	— U.S.
<i>Havre (Le), Bul. soc. géol...</i>	Bulletin de la société géologique de Normandie. Le Havre (Seine-Inférieure). [trimestr.]	371 Fr.
<i>Heidelberg, Mitt. geol. Landesanst.</i>	Mittheilungen der grossherzoglich badischen geologischen Landesanstalt, hrsg. im Auftr. des Ministeriums des Innern. Heidelberg. [jähr.]	574 Ger.
<i>Heidelberg, Verh. nathist. Ver.</i>	Verhandlungen des naturhistorisch-medizinischen Vereins zu Heidelberg. Heidelberg. [1-2 H. jährl.]	575 Ger.
<i>Helder, Jaarb. onderz. zee</i>	Jaarboek van het Rijksinstituut voor het onderzoek der zee. Helder.	— Hol.

<i>Helder, Tijdschr. Ned. Dierk. Ver.</i>	Tijdschrift der Nederlandsche Dierkundige Vereeniging, Leiden. 8vo.	27 Hol.
<i>Helder, Verh. Onderz. Zee...</i>	Verhandelingen uit het Rijksinstituut voor het onderzoek der zee, Helder.	— Hol.
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<i>Hod. Drob., Lwów ...</i>	Hodowca drobia, red. J. Szpilman, Lwów. 4to. [monthly.]	10 Pol.
<i>Hof, Ber. Ver. Natk. ...</i>	Bericht des nordoberfränkischen Vereins für Natur-, Geschichts- und Landeskunde. Hof. [mehrjährh.]	586 Ger.
<i>Holmesdale, Proc. Nat. Hist. Cl., London</i>	Proceedings of the Holmesdale Natural History Club, London. 4to.	149 U.K.
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<i>Hull Mus. Publ. ...</i>	Hull Museum Publications ...	— U.K.
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<i>J. Trop. Med., London ...</i>	Journal of Tropical Medicine, London...	181 U.K.
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<i>Jahresber. Anat., Jena ...</i>	Jahresberichte über die Fortschritte der Anatomie und Entwicklungsgeschichte, hrsg. v. Schwalbe. Jena. [referirend,jähr.]	622 Ger.
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<i>Jassy, Ann. Univ. ...</i>	Annales scientifiques de l'Université de Jassy, Jassy.	— Fr.
<i>Jena, Mitt. geogr. Ges. ...</i>	Mittheilungen der geographischen Gesellschaft für Thüringen zu Jena. Jena. [jähr.]	648 Ger.
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<i>Ježeg. geol. i miner., Varšava</i>	Ежегодникъ по геологii и минералогii Россii. Варшава [Annuaire de la géologie et de la minéralogie de Russie. Varsovie].	68 Rus.
<i>Johannesburg, Trans. Geol. Soc. S. Africa</i>	Transactions of the Geological Society of South Africa, Johannesburg.	8 S. Afr.
<i>Johns Hopkins Hosp. Bull. Baltimore, Md.</i>	The Johns Hopkins Hospital Bulletin. Baltimore, Md.	— U.S.
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<i>Jurjev, Arch. Naturk. L.-E.-u. Kurl.</i>	Archiv für die Naturkunde Liv-, Ehst- und Kurlands. Herausgegeben von der Dorpater Naturforscher-Gesellschaft. Jurjev. I. Mineralogische Wissenschaften, Chemie, Physik und Erdbeschreibung. II. Biologische Naturkunde.	74 Rus.
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<i>Kiev, Zap. Obšč. jest. ...</i>	Записки Кіевскаго Общества естествоиспытателей. Кіевъ [Mémoires de la Société des Naturalistes de Kiev].	100 Rus.

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<i>Münster, Jahresber. Prov.-Ver. Wiss.</i>	Jahresbericht des westfälischen Provinzialvereins für Wissenschaft und Kunst. Münster. [jährl.]	850 Ger.
<i>Museumskunde, Berlin</i> ...	Museumskunde. Zeitschrift für Verwaltung und Technik öffentlicher und privater Sammlungen. Hrsg. v. K. Koetschau. Berlin. [4 H. jährl.]	— Ger.
<i>Muzeum, Lwów</i> ...	Muzeum, czasopismo Towarzystwa Nauczycieli Szkół wyższych, red. B. Mańkowski, Lwów. Śvo. [monthly.]	26 Pol.
<i>N. Balmen, Leipzig</i> ...	Neue Balmen. Monatschrift für Haus-, Schul- und Gesellschafts-Erziehung. Zugleich Organ der Freien Vereinigung für philosophische Paedagogik. Hrsg. unter Mitwirkung namhafter Paedagogen v. H. Scherer. Leipzig (Emil Behrend).	1345 Ger.
<i>N. Denkschr. Schweiz. Ges. Natw., Zürich</i>	Neue Denkschriften der allgemeinen schweizerischen Gesellschaft für die gesammten Naturwissenschaften. Nouveaux Mémoires de la Société helvétique des sciences naturelles. Zürich, etc. 4to.	71 Swi.
<i>N. Jahrb. Min., Stuttgart</i> ...	Neues Jahrbuch für Mineralogie, Geologie und Paläontologie, hrsg. v. Bauer. Stuttgart. [2 monatl.] Nebst Beilage-Bänden.	854 Ger.
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<i>NatCab., Grünberg</i> ...	Das Naturalien-Cabinet. Grünberg i. Schl. [$\frac{1}{2}$ monatl.]	862 Ger.
<i>Nat. Canad., Quebec</i> ...	Naturaliste Canadien Cap Rouge, Chicoutimi, Quebec.	22 Can.

<i>Nat. Novit., Berlin...</i>	...	Naturae Novitates. Bibliographie neuer Erscheinungen aller Länder auf dem Gebiete der Naturgeschichte und der exacten Wissenschaften. Berlin. [Bibliographie, 26 Nrn jährl.]	861 Ger.
<i>Nation. Geog. Mag., New York, N.Y.</i>		National Geographic Magazine, New York, N.Y.	270 U.S.
<i>Natur u. Glaube, Leutkirch</i>		Natur und Glaube. Naturwissenschaftliche Monatsschrift, hrsg. v. Weiss. Leutkirch. [monatl.]	864 Ger.
<i>Natur u. Haus, Dresden ...</i>		Natur und Haus. Illustrierte Zeitschrift, hrsg. v. Hesdörffer. Dresden. [monatl.]	865 Ger.
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<i>Natur u. Offenb., Münster</i>		Natur und Offenbarung. Organ zur Vermittelung zwischen Naturforschung und Glauben für Gebildete aller Stände. Münster. [monatl.]	866 Ger.
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<i>Prag, Věstn. České Ak. Frant. Jos.</i>	Věstník České Akademie Císaře Františka Josefa pro Vědy, Slovesnost a Umění. Praha. [Anzeiger der Tschechischen Kaiser Franz Josefs-Akademie für Wissenschaft, Literatur und Kunst.] [9 H. jährl.]	312 Aus.
<i>Prakt. Bl. Pflanzenschutz, Stuttgart</i>	Praktische Blätter für Pflanzenschutz, hrsg. v. Weiss. Stuttgart. [monatl.]	931 Ger.
<i>Pretoria, J. S. Afric. Ornith. Union</i>	Journal of the South African Ornithologists' Union, Pretoria.	— S.A.
<i>Prir. i ochota, Moskva</i> ...	Природа и охота. Прилож. Охотничья газета). Москва [Nature et chasse. (avec suppl. "Journal cynégetique"). Moscou].	200 Rus.
<i>Proc. Amer. Ass. Adv. Sci., Washington, D.C. [formerly Easton, Pa.]</i>	Proceedings of the Amer. Ass. for the Advancement of Science. Washington, D.C.	138 U.S.
<i>Prometheus, Berlin</i> ..	Prometheus. Illustrierte Wochenschrift über die Fortschritte in Gewerbe, Industrie und Wissenschaft, hrsg. v. Witt. Berlin. [wöch.]	38 Ger.
<i>Prostějov, Věstn. Kl. Přír.</i>	Věstník klubu přírodovědeckého. [Mittheilungen des naturwissenschaftlichen Klubs. Prossnitz.]	535 Aus.
<i>Providence, R.I., Bull. Roger Williams Park Mus.</i>	Roger Williams Park Museum. Bulletin. Providence, R.I.	— U.S.
<i>Przegl. lek., Kraków</i> ...	Przegląd lekarski, red. A. Kwaśnicki, Kraków. 4to. [weekly.]	43 Pol.
<i>Psor. i ružejn. ochota, Tula</i>	Псовая и ружейная охота. Тула [La chasse à courre et à l'arrêt. Toulal].	204 Rus.
<i>Psyche, Boston, Mass.</i> ..	Psyche. (Entomological Club), Boston, Mass.	404 U.S.
<i>Q. J. Microsc. Sci., London</i>	Quarterly Journal of Microscopical Science, London. Svo.	381 U.K.
<i>Queensland Agric. J., Brisbane</i>	Queensland Agricultural Journal, Brisbane.	— Qnsl.
<i>Reading, Rep. Lit. Sci. Soc.</i>	Report and Proceedings of the Reading Literary and Scientific Society, Reading.	— U.K.
<i>Redia, Firenze</i>	Redia, Giornale d'Entomologia, Firenze.	297 It.
<i>Regensburg, Ber. nativ. Ver.</i>	Berichte des naturwissenschaftlichen (früher zoologisch-mineralogischen) Vereins zu Regensburg. (Forts. des Correspondenzblattes.) Regensburg. [2 jähr.]	949 Ger.
<i>Reims, Bul. soc. sci. nat.</i> ...	Bulletin de la société d'étude des sciences naturelles de Reims (Marne). [trimestr.]	654 Fr.

<i>Rennes, Bul. soc. sci. méd.</i>	Bulletin de la société scientifique et médicale de l'Ouest. Rennes (Ille-et-Vilaine). [trimestr.]	658 Fr.
<i>Rep. Austr. Ass., Sydney, N.S.W.</i>	Report of the Australasian Association for the advancement of science. Sydney, N.S.W.	— N.S.W.
<i>Rev. Argent., Buenos Aires</i>	Revista Argentina de Historia natural, Buenos Aires.	— Argent.
<i>Rev. chilena, Valparaiso ...</i>	Revista chilena de historia natural Organo del museo de Valparaiso. Valparaiso.	— Chile
<i>Rev. colon., Paris ...</i>	Revue coloniale. Ministère des colonies. Paris. [bimestr.]	675 Fr.
<i>Rev. crit. paléozool., Paris</i>	Revue critique de paléozoologie. Dir. Cossman. Paris. [trimestr.]	678 Fr.
<i>Rev. Ent., Caen ...</i>	Revue d'Entomologie. Réd. A. Fauvel. Caen (Calvados). [mensuel.]	683 Fr.
<i>Rev. gén. marine march., Paris</i>	Revue générale de la marine marchande, publication hebdomadaire illustrée. Dir. L. Muller. Paris.	690 Fr.
<i>Rev. gén. sci., Paris ...</i>	Revue générale des sciences pures et appliquées. Dir. L. Olivier. Paris. [bi-mensuel.]	693 Fr.
<i>Rev. Jard. zool., Buenos Aires</i>	Revista del Jardín Zoológico de Buenos Aires, Buenos Aires.	— Argent.
<i>Rev. Mus., La Plata, Buenos Aires</i>	Revista del Museo de la Plata, Buenos Aires.	— Argent.
<i>Rev. Mus., São Paulo ...</i>	Revista do Musai Paulista, publicada por H. von Ihering, São Paulo.	— Braz.
<i>Rev. russ. ent., St. Péterburg</i>	Русское Энтомологическое Обозрѣніе. С.-Петербургъ [Revue russe d'Entomologie. St. Pétersbourg].	209 Rus.
<i>Rev. sci., Bourbon., Moulins</i>	Revue scientifique du Bourbonnais et du Centre de la France. Moulins (Allier). [mensuel.]	750 Fr.
<i>Rev. sci. Limous., Limoges</i>	Revue scientifique du Limousin. Limoges (Haute-Vienne). [mensuel.]	752 Fr.
<i>Rev. sci. nat. ouest, Paris, Tours</i>	Revue des Sciences naturelles de l'Ouest. Paris, Tours. [trimestr.]	748 Fr.
<i>Rev. sci., Paris ...</i>	Revue scientifique de la France et de l'étranger. Dir. Ch. Richet. Paris. [hebdomad.]	749 Fr.
<i>Rev. Suisse Zool., Genève ...</i>	Revue suisse de Zoologie. Annales de la Société zoologique suisse et du Musée d'histoire naturelle de Genève. Genève. Svo.	83 Swi.
<i>Reykjavik, Andvari ...</i>	Andvari Timarit hins islenzka thjóðvinafjelags, Reykjavik.	35 Den.
<i>Riga, Arb. Naturf.-Ver. ...</i>	Arbeiten des Naturforscher-Vereins zu Riga.	210 Rus.
<i>Riga, Korr.-Ult. Naturf.-Ver.</i>	Korrespondenzblatt des Naturforscher-Vereins zu Riga.	213 Rus.

<i>Rio de Janeiro, Bol. Comm. geogr. Minas Geraes</i>	Boletim da Comissão geographica e geologica do Estado de Minas Geraes, Rio de Janeiro.	— Braz.
<i>Riv. colcettor. ital., Camerino</i>	Rivista colcettorologica italiana, Camerino.	299 It.
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<i>Riv. ital. sc. nat., Siena ...</i>	Rivista italiana di scienze naturali, Siena.	168 It.
<i>Rochdale, Trans. Lit. Sci. Soc.</i>	Transactions of the Rochdale Literary, etc., Society, Rochdale. Svo.	394 U.K.
<i>Rochelle (La), Ann. soc., sci. nat. Acad. bel.-let.</i>	Annales de la section des sciences naturelles de l'Académie des Belles-lettres, sciences et arts de la Rochelle (Charente-Inférieure). [annuel.]	770 Fr.
<i>Rochester, N.Y., Bull. Geol. Soc. Amer.</i>	Bulletin of the Geological Society of America, Rochester, N.Y.	410 U.S.
<i>Rochester Nat. ...</i>	Rochester Naturalist, Rochester ...	395 U.K.
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<i>Rouen, Bul. soc. amis. sci. nat.</i>	Bulletin de la société des amis des sciences naturelles de Rouen (Seine-Inférieure). [semestr.]	774 Fr.
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<i>Rugby, Rep. Sch. Nat. Hist. Soc.</i>	Report of the Rugby School Natural History Society, Rugby.	397 U.K.

<i>Russ. pčelovod. listok, St. Petersburg</i>	Русскій пчеловодный листокъ. С.-Петербургъ [Journal russe d'apiculture. St.-Pétersbourg].	227 Rus.
<i>Russ. sudochod., St. Petersburg</i>	Русское судходство. С.-Петербургъ [La navigation russe, St. Pétersbourg].	— Rus.
<i>S. E. Nat., Tunbridge Wells</i>	The South Eastern Naturalist, Tunbridge Wells. 8vo.	401 U.K.
<i>St. Dizier, Mém. soc. let. sci.</i>	Mémoires de la société des lettres, sciences, arts, de l'agriculture et de l'industrie de St. Dizier (Haute-Marne). [annuel.]	787 Fr.
<i>St. John's, N.B., Bull. Nat. Hist. Soc. New Brunsw.</i>	Bulletin of the Natural History Society of New Brunswick, St. John's, New Brunswick.	29 Can.
<i>St. Louis, Mo., Trans. Acad. Sci.</i>	Transactions of the Academy of Science of St. Louis, St. Louis, Mo.	414 U.S.
<i>St. Petersburg, Ann. Mus. zool. Ac. Sc.</i>	Ежегодникъ Зоологическаго музея Императорской Академіи Наукъ. С.-Петербургъ [Annuaire du Musée zoologique de l'Académie Impériale des Sciences. St.-Pétersbourg].	248 Rus.
<i>St. Petersburg, Ber. Süßwasserst. Naturf.-Ges.</i>	Труды прѣсноводной біологической станціи Императорскаго С.-Петербургскаго Общества естествоиспытателей. С.-Петербургъ [Berichte der biologischen Süßwasserstation der Kaiserlichen Naturforscher-Gesellschaft zu St.-Petersburg].	250 Rus.
<i>St. Petersburg, Bull. Ac. Sc.</i>	Извѣстія Императорской Академіи Наукъ. С.-Петербургъ [Bulletin de l'Académie Impériale des Sciences de St.-Pétersbourg].	251 Rus.
<i>St. Petersburg, Bull. Com. géol.</i>	Извѣстія Геологическаго Комитета. С.-Петербургъ [Bulletin du Comité géologique. St.-Pétersbourg].	252 Rus.
<i>St. Petersburg, Bull. labor. biol.</i>	Извѣстія С.-Петербургской біологической лабораторіи. С.-Петербургъ [Bulletin du laboratoire biologique de St.-Pétersbourg].	254 Rus.
<i>St. Petersburg, Hor. Soc. Ent. Ross.</i>	Труды русскаго энтомологическаго Общества въ С.-Петербургъ [Horae Societatis Entomologicae Rossicae. St.-Pétersbourg].	256 Rus.
<i>St. Petersburg, Mém. Ac. Sc.</i>	Записки Императорской Академіи Наукъ по физико-математическому отдѣленію. С.-Петербургъ [Mémoires de l'Académie Impériale des Sciences. Classe des sciences physiques et mathématiques. St.-Pétersbourg].	266 Rus.
<i>St. Petersburg, Mém. Com. géolog.</i>	Труды Геологическаго Комитета. С.-Петербургъ [Mémoires du Comité géologique. St.-Pétersbourg].	267 Rus.

<i>St. Peterburg, Trav. Soc. nat.</i>	Труды Императорскаго С.-Петербургскаго Общества естествоиспытателей. С.-Петербургъ [Travaux de la Société Impériale des naturalistes de St.-Petersbourg].	284 Rus.
<i>St. Peterburg, Verh. Russ. mineral. Ges.</i>	Записки Императорскаго С.-Петербургскаго минералогическаго общества. С.-Петербургъ [Verhandlungen der russischen Mineralogischen Gesellschaft. St.-Petersbourg].	290 Rus.
<i>St. Peterburg, Zap. Russ. Geogr. Obšč.</i>	Записки Императорскаго русскаго географическаго Общества. 3 серіи: 1) по общей географіи; 2) статистикѣ; 3) этнографіи. С.-Петербургъ [Mémoires de la Société Impériale russe de Géographie. En 3 séries: 1) géographie générale; 2) statistique; 3) ethnographie. St.-Petersbourg].	291 Rus.
<i>Salatiga, Bull. alg. Proefstat.</i>	Algemeen proefstation te Salatiga. Bulletin. Malang. A. T. Jahn. Svo.	— Hol.
<i>Sanct Hubertus, Cöthen ...</i>	Sanct Hubertus. Wöchentliche illustrierte Zeitschrift für Jagd, Hundezucht, Fischerei und Naturkunde, red. v. Scheffler. Cöthen. [wöch.]	977 Ger.
<i>San Francisco, Cal., Occ. Paprs. Acad. Sci.</i>	Occasional Papers of the California Academy of Sciences, San Francisco, Cal.	419 U.S.
<i>San Francisco, Mem. Cal. Acad. Sci.</i>	Memoirs of the California Academy of Sciences, San Francisco, Cal.	423 U.S.
<i>San Francisco, Proc. Cal. Acad. Sci., Zool.</i>	Proceedings of the California Academy of Sciences. Zoology. San Francisco, Cal.	-- U.S.
<i>Santiago, Act. Soc. Chile ...</i>	Actes de la Société scientifique du Chile, Santiago	Chile
<i>Santiago, Ann. Univ. Chile</i>	Anales de la Universidad de Chile, Santiago.	Chile
<i>Santiago, Verh. Ver. Chile</i>	Verhandlungen des deutschen wissenschaftlichen Vereins zu Santiago (Chile). Santiago.	— Chile
<i>São Paulo, Bol. Comm. geogr.</i>	Boletim da Comissão geographica e geologica da Provincia de S. Paulo.	— Braz.
<i>Sarajevo, Wiss. Mitt. Bosn. Herceg.</i>	Wissenschaftliche Mitteilungen aus Bosnien und der Hercegovina. Herausgegeben vom Bosnisch-Hercegovinischen Landes-Museum. Red. v. Moritz Hoernes. Wien. [jährlich.]	342 Aus.
<i>Saratov, Trd. Obšč. jest. ...</i>	Труды Саратовскаго Общества естествоиспытателей и любителей естествознанія. Саратовъ [Travaux de la Société des naturalistes de Saratov].	235 Rus.

<i>Schaffhausen, Mitt. Schweiz. Entomol. Ges.</i>	Mitteilungen der schweizerischen entomologischen Gesellschaft. Bulletin de la Société entomologique suisse. Schaffhausen. 8vo.	69 Swi.
<i>Schwalbe, Wien</i>	Die Schwalbe. Berichte des Komitees für ornithologische Beobachtungs-Stationen in Österreich. Herausgegeben von der Ornithologischen Sektion der k. k. Zoologisch-Botanischen Gesellschaft in Wien. Red. v. Ludwig Ritter Lorenz von Liburnau. Wien. [2 jährl.]	348 Aus.
<i>Sci. Mem. Med. Ind., Calcutta</i>	Scientific Memoirs by the Medical Officers of the Army of India, Calcutta.	27 Ind.
<i>Science, New York, N.Y.</i>	Science, New York, N.Y.	429 U.S.
<i>Semur, Bul. soc. sci. hist. nat.</i>	Bulletin de la société des sciences historiques et naturelles. Semur en Auxois (Côte d'Or). [annuel.]	803 Fr.
<i>'s Gravenhage, Ber. Ned. Ent. Ver.</i>	Entomologische Berichten uitgegeven door de Nederlandsche Entomologische Vereeniging.	— Hol.
<i>'s Gravenhage, Tijdschr. Ent.</i>	Tijdschrift voor Entomologie uitgegeven door de Nederlandsche entomologische Vereeniging, 's Gravenhage. 8vo.	49 Hol.
<i>Shanghai, J. China R. As. Soc.</i>	Journal of the China Branch of the Royal Asiatic Society, Shanghai.	— China
<i>Shrewsbury, Rec. (or Trans.) Caradoc F. Cl.</i>	Record of the Caradoc and Severn Valley Field Club, Shrewsbury.	403 U.K.
<i>Shrewsbury, Trans. Shropsh. Archæol. Nat. Hist. Soc.</i>	Transactions of the Shropshire Archæological and Natural History Society, Shrewsbury. 8vo.	404 U.K.
<i>Siena, Atti Acc. fisiocritici</i>	Atti dell' Accademia dei fisiocritici, Siena.	212 It.
<i>Singapore, J. Straits Asiat. Soc.</i>	Journal of the Straits Branch of the Royal Asiatic Society, Singapore.	— Ind.
<i>Southampton, Proc. Hants F. Cl.</i>	Proceedings of the Hampshire Field Club, Southampton	406 U.K.
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<i>Stavanger, Mus. Aarsb.</i>	Aarsberetning for Stavanger Museum, Stavanger	26 Nor.
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<i>Studi sassaresi, Sassari ...</i>	Studi sassaresi, Sassari	258 It.
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<i>Tobol'sk, Ježeg. Muz. ...</i>	Ежегодникъ Тобольскаго Музея. Тобольскъ [Annuaire du Musée de Tobolsk].	315 Russ.
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<i>Tōkyō, Mitt. ost. Ges. ...</i>	Mittheilungen der ostasiatischen Gesellschaft. <i>German language.</i> Tōkyō, Japan.	35 Jap.
<i>Tōkyō, Nip. Nō. Kw. Hō. ...</i>	Tōkyō, Dai Nippon Nō Kwai Hō. (Journal of the Agricultural Society of Japan).	— Jap.
<i>Tōkyō, Nip. Sanrin. Kw. Z.</i>	Dai Nippon Sanringaku Kwai Zasshi (Journal of the Society of Forestry of Japan). <i>Japanese language.</i> Tōkyō, Japan.	37 Jap.

<i>Tōkyō, Nip. Sanshi Kw. Hō.</i>	<i>Tōkyō, Dai Nippon Sanshi Kwai Hō.</i> (Journal of the Japanese Sericultural Association.)	— Jap.
<i>Tōkyō, Proc. Dept. Nat. Hist.</i>	<i>Tōkyō, Proceedings of the Department of Natural History, Tōkyō Imperial Museum.</i>	— Jap.
<i>Torino, Atti Acc. sc. ...</i>	<i>Atti della R. Accademia delle scienze, Torino.</i>	220 It.
<i>Torino, Boll. Musei zool. anat.</i>	<i>Bollettino dei Musei di zoologia e di anatomia comparata della R. Università, Torino.</i>	224 It.
<i>Torino, Giorn. Acc. med. ...</i>	<i>Giornale della R. Accademia di medicina, Torino.</i>	226 It.
<i>Torino, Mem. Acc. sc. ...</i>	<i>Memorie della R. Accademia delle scienze, Torino.</i>	228 It.
<i>Toronto, Proc. Canad. Inst.</i>	<i>Proceedings of the Canadian Institute, Toronto.</i>	33 Can.
<i>Toronto, Rep. Ent. Soc. Ont</i>	<i>Annual Report of the Entomological Society of Ontario, Toronto.</i>	— Can.
<i>Toronto, Stud. Univ. Biol. Ser.</i>	<i>Studies from the University of Toronto, Biological Series.</i>	36 Can.
<i>Toronto, Stud. Univ. Physiol. Ser.</i>	<i>Studies from the University of Toronto, Physiological Series.</i>	38 Can.
<i>Toronto, Stud. Univ. Psychol. Ser.</i>	<i>Studies from the University of Toronto, Psychological Series.</i>	37 Can.
<i>Toronto, Trans. Canad. Inst.</i>	<i>Transactions of the Canadian Institute, Toronto.</i>	40 Can.
<i>Toulouse, Bul. soc. hist. nat.</i>	<i>Bulletin de la société d'histoire naturelle de Toulouse (Haute-Garonne). [trimestr.]</i>	815 Fr.
<i>Toulouse, Bul. soc. sci. phys. nat.</i>	<i>Bulletin de la société des sciences physiques et naturelles de Toulouse (Haute-Garonne).</i>	817 Fr.
<i>Toulouse, Mém. Acad. sci. inscrip.</i>	<i>Mémoires de l'Académie des sciences, inscriptions et belles lettres de Toulouse (Haute-Garonne). [annuel.]</i>	822 Fr.
<i>Trar. Lab. géol., Grenoble</i>	<i>Travaux du laboratoire de géologie de l'Université de Grenoble, Grenoble.</i>	— Fr.
<i>Trar. Lab. étud. soie, Lyon</i>	<i>Travaux du Laboratoire d'études de la soie, fondé par la Chambre de commerce de Lyon par la commission administrative, Lyon.</i>	— Fr.
<i>Trav. mém. Fac. Lille ...</i>	<i>Travaux et mémoires des Facultés de Lille (Nord).</i>	834 Fr.
<i>Trav. Sect. géol. Cab. S. M. I., St. Peterburg</i>	<i>Труды геологической части кабинета Его Императорскаго Величества. С.-Петербургъ [Travaux de la Section géologique du Cabinet de Sa Majesté Impériale. St.-Petersbourg.]</i>	319 Rus.
<i>Trav. Univ., Rennes ...</i>	<i>Travaux scientifiques de l'Université de Rennes, Rennes. [Reprinted from Rennes Bull. soc. sci.]</i>	— Fr.

<i>Trd. B. entom. Učen. Kom. M. Zeml., St. Peterburg</i>	Труды Бюро по энтомологии Ученаго Комитета Министерства Земледѣлія и Государственныхъ Имуществъ. С.-Петербургъ [Travaux du Bureau entomologique du Comité scientifique du Ministère d'Agriculture et des Domaines. St.-Pétersbourg.]	444 Rus.
<i>Trd. Troick.-Kjacht. Otd. Russ. Geogr. Obšč., Moskva</i>	Труды Троицкосавско-Кяхтинскаго отдѣла. Приамурскаго отдѣла Императорскаго русскаго Географическаго Общества. Москва [Travaux de la subdivision de Troizkosavsk-Kjachta de la Section du territoire de l'Amour de la Société Impériale russe de Géographie. Moscou.]	155 Rus.
<i>Trencsén m. term. társ. évk.</i>	Trencsén megyei természettudományi társulat évkönyvei. Trencsén. [Jahrbuch des trencsiner naturwissenschaftlichen Vereins, Trencsén.]	17 Hun.
<i>Trieste, Boll. Soc. Adriat. Sci. Nat.</i>	Bollettino della Società Adriatica di Scienze Naturali in Trieste. Red. Antonio Valle. Trieste. [irregol.]	376 Aus.
<i>Tromsø Mus. Aarsb. ...</i>	Aarshefter fra Tromsø Museum, Tromsø.	27 Nor.
<i>Trondhjem, kgl. Vid. selsk. Skr.</i>	Det kongelige norske Videnskabernes Selskabs Skrifter, Trondhjem.	28 Nor.
<i>Truro, J. R. Inst. Cornwall</i>	Journal of the Royal Institution of Cornwall, Truro.	420 U.K.
<i>Tuft's College, Mass., Tuft's Coll. Stud.</i>	Tuft's College Studies. (Scientific Series.) Tuft's College, Mass.	— U.S.
<i>Turkest. Věd., Taškent. ...</i>	Туркестанскія Вѣдомости. ТАШКЕНТЪ [Bulletin de Turkestan. Tachkent].	328 Rus.
<i>Ulm, Jahreshefte Ver. Math.</i>	Jahreshefte der Vereins für Mathematik und Naturwissenschaften zu Ulm. [unbestimmt.]	1066 Ger.
<i>Umschau, Frankfurt a. M.</i>	Die Umschau. Uebersicht über die Fortschritte und Bewegungen auf dem Gesamtgebiet der Wissenschaft, Technik, Litteratur und Kunst, hrsg. v. Bechhold. Frankfurt a. M. [wöch.]	1068 Ger.
<i>Upsala, Bull. Geol. Inst. ...</i>	Bulletin of the Geological Institution of the University of Upsala. Edited by Hj. Sjögren. Upsala. 8vo.	55 Swe.
<i>Urbana, Bull. Ill. Lab. Nat. Hist.</i>	Bulletin of the Illinois State Laboratory of Natural History, Urbana and Champagne.	448 U.S.
<i>Urbana, Stud. Univ. Ill. ...</i>	University Studies. University of Illinois, Urbana.	451 U.S.
<i>Utrecht, Onderz. Physiol. Lab.</i>	Onderzoekingen gedaan in het physiologisch Laboratorium der Utrechtsche Hoogeschool. Utrecht. 8vo.	54 Hol.
<i>Varšava, Izv. Univ. ...</i>	Варшавскія университетскія извѣстія. Варшава [Bulletin de l'Université Impériale de Varsovie].	331 Rus.

<i>Varšava, Rab. zool. kab. Univ.</i>	Работы изъ зоологическаго кабинета Варшавскаго Университета. Варшава. [Travaux du cabinet zoologique de l'Université de Varsovie. Varsovie.]	— Rus.
<i>Varšava, Trav. soc. nat. Proc. verb. réun. gén.</i>	Труды Варшавскаго Общества естествоиспытателей. Протоколы общаго собранія. Варшава [Travaux de la société des naturalistes de Varsovie. Procès-verbaux de la réunion générale.]	336 Rus.
<i>Varšava, Trd. Obšč. jest. ...</i>	Труды Варшавскаго Общества естествоиспытателей. Варшава [Travaux de la Société des naturalistes de Varsovie].	336 Rus.
<i>Venezia, Atti Ist. ven. ...</i>	Atti del R. Istituto veneto di scienze, lettere ed arti, Venezia.	235 It.
<i>Venezia, Mem. Ist. ven. ...</i>	Memorie del R. Istituto veneto di scienze, lettere ed arti, Venezia.	236 It.
<i>Verh. D. KolKongr., Berlin</i>	Verhandlungen des deutschen Kolonialkongresses. Berlin.	— Ger.
<i>Verh. D. otol. Ges., Jena ...</i>	Verhandlungen der deutschen otologischen Gesellschaft. Jena. [jähr.]	1080 Ger.
<i>Verh. D. zool. Ges., Leipzig</i>	Verhandlungen der deutschen zoologischen Gesellschaft. Leipzig. [jähr.]	1082 Ger.
<i>Verh. Ges. D. Natf., Leipzig</i>	Verhandlungen der Gesellschaft deutscher Naturforscher und Aerzte. Leipzig. [jähr.]	1083 Ger.
<i>Vermont, Rep. Geol., Montpelier</i>	Report of the State Geologist on the Mineral Industries and Geology of certain areas of Vermont. Montpelier, Vt.	585 U.S.
<i>Versailles, Mém. soc. sci. nat.</i>	Mémoires de la société des sciences naturelles et médicales de Seine-et-Oise. Versailles (Seine-et-Oise). [trimestr.]	847 Fr.
<i>Versl. Staat Ned. Zeevissch., 's Gravenhage</i>	Verslag van den Staat der Nederlandsche Zeevisscherijen, 's Gravenhage. 4to.	56 Hol.
<i>Věst. Obšč. pčelorod., St. Petersburg</i>	Вѣстникъ русскаго общества пчеловодства. С.-Петербургъ [Messager de la Société russe d'apiculture. St.-Petersbourg].	344 Rus.
<i>Věst. rybopromyšl., St. Petersburg</i>	Вѣстникъ рыбопромышленности; органъ Русскаго Общества рыболовства и рыболовства. С.-Петербургъ [Messager du commerce de poissons; organe de la Société russe de pisciculture et de pêche. St.-Petersbourg].	354 Rus.
<i>Věst. sacharn. promyšl., Kier</i>	Вѣстникъ сахарной промышленности. Кіевъ [Messager de l'industrie du sucre. Kiev].	355 Rus.
<i>Vict. Dept. Mines, Bull. Geol. Surv., Melbourne</i>	Victoria, Department of Mines. Bulletins of the Geological Survey, Melbourne.	— Vict.

<i>Vict. Dept. Mines, Mem. Geol. Surv., Melbourne</i>	Victoria, Department of Mines. Memoirs of the Geological Survey of Victoria. Melbourne.	— Vict.
<i>Vict. Dept. Mines, Rec. Geol. Surv., Melbourne</i>	Victoria, Department of Mines. Records of the Geological Survey of Victoria, Melbourne.	— Vict.
<i>Vict. J. Dept. Agric., Melbourne</i>	Journal of the Department of Agriculture, Victoria. Melbourne.	23 Vict.
<i>Vict. Nat., Melbourne ...</i>	The Victorian Naturalist. Melbourne ...	19 Vict.
<i>W. Amer. Sci., San Diego, Cal.</i>	West American Scientist, San Diego, Cal.	454 U.S.
<i>Warwick, Proc. F. Cl. ...</i>	Proceedings of the Warwickshire Naturalists' and Archaeologists' Field Club, Warwick.	424 U.K.
<i>Washington, D.C., Bull. Phil. Soc.</i>	Bulletin of the Philosophical Society of Washington, Washington, D.C.	456 U.S.
<i>Washington, D.C., Bull. U. S. Dept. Agric. Bur. Anim. Indust.</i>	Bulletin. U. S. Department of Agriculture. Bureau of Animal Industry, Washington, D.C.	457 U.S.
<i>Washington, D.C., Bull. U. S. Dept. Agric. Div. Biol. Surv.</i>	Bulletin. U. S. Department of Agriculture. Division of Biological Survey, Washington, D.C.	459 U.S.
<i>Washington, D.C., Bull. U. S. Dept. Agric. Div. Ent.</i>	Bulletin. U. S. Department of Agriculture. Division of Entomology, Washington, D.C.	462 U.S.
<i>Washington, D.C., Bull. U. S. Fish Com.</i>	Bulletin of the U. S. Fish Commission, Washington, D.C.	467a U.S.
<i>Washington, D.C., Carnegie Inst., Year Book</i>	Carnegie Institution of Washington. Year Book, Washington, D.C.	468 U.S.
<i>Washington, D.C., Cir. U. S. Dept. Agric. Bur. Anim. Indust.</i>	Circular. U. S. Department of Agriculture. Bureau of Animal Industry, Washington, D.C.	469 U.S.
<i>Washington, D.C., Cir. U. S. Dept. Agric. Div. Ent.</i>	Circular. U. S. Department of Agriculture. Division of Entomology, Washington, D.C.	474 U.S.
<i>Washington, D.C., Dept. Int. Bull. U. S. Geol. Surv.</i>	Department of the Interior. Bulletin of the United States Geological Survey, Washington, D.C.	516 U.S.
<i>Washington, D.C., Dept. Int. Rep. U. S. Geol. Surv.</i>	Department of the Interior. Annual Report of the U. S. Geological Survey, Washington, D.C.	482 U.S.
<i>Washington, D.C., Dept. Int. U. S. Geol. Surv. Prof. Paprs.</i>	Professional Papers. Department of the Interior. U. S. Geological Survey, Washington, D.C.	— U.S.
<i>Washington, D.C., Dept. Int. U. S. Geol. Surv. Monogr.</i>	Department of the Interior. U. S. Geological Survey. Monographs, Washington, D.C.	483 U.S.
<i>Washington, D.C., George Washington Univ. Bull.</i>	The George Washington University Bulletin. Washington, D.C.	— U.S.
<i>Washington, D.C., Mem. Nation. Acad. Sci.</i>	Memoirs of the National Academy of Science, Washington, D.C.	486 U.S.
<i>Washington, D.C., Proc. Acad. Sci.</i>	Proceedings of the Washington Academy of Sciences, Washington, D.C.	486a U.S.

<i>Washington, D.C., Proc. Biol. Soc.</i>	Proceedings of the Biological Society of Washington, Washington, D.C.	488 U.S.
<i>Washington, D.C., Proc. Ent. Soc.</i>	Proceedings of the Entomological Society of Washington, Washington, D.C.	489 U.S.
<i>Washington, D.C., Rep. U. S. Com. Fish.</i>	U. S. Commission of Fish and Fisheries. Report of the Commissioner, Washington, D.C.	493 U.S.
<i>Washington, D.C., Smithsonian Inst., Cont. Knowl.</i>	Smithsonian Institution. Smithsonian Contributions to Knowledge, Washington, D.C.	496 U.S.
<i>Washington, D.C., Smithsonian Inst., Misc. Collect. Q.</i>	Smithsonian Institution. Smithsonian Miscellaneous Collections, Quarterly, Washington, D.C.	497 U.S.
<i>Washington, D.C., Smithsonian Inst., Nation. Mus. Bull.</i>	Smithsonian Institution. U. S. National Museum. Bulletin, Washington, D.C.	498 U.S.
<i>Washington, D.C., Smithsonian Inst., Nation. Mus. Proc.</i>	Smithsonian Institution. U. S. National Museum. Proceedings, Washington, D.C.	500 U.S.
<i>Washington, D.C., Smithsonian Inst., Nation. Mus. Rep.</i>	Smithsonian Institution. U. S. National Museum. Annual Report of the Board of Regents of the Smithsonian Institution, Washington, D.C.	492 U.S.
<i>Washington, D.C., Smithsonian Inst., Nation. Mus. Sp. Bull.</i>	Smithsonian Institution. U. S. National Museum. Special Bulletin, Washington, D.C.	501 U.S.
<i>Washington, D.C., Smithsonian Inst., Rep.</i>	Smithsonian Institution. Annual Report of the Board of Regents, Washington, D.C.	502 U.S.
<i>Washington, D.C., Tech. Ser. U. S. Dept. Agric. Div. Ent.</i>	Technical Series. U. S. Department of Agriculture. Division of Entomology, Washington, D.C.	505 U.S.
<i>Washington, D.C., Treas. Dept., Pub. Hlth. Mar. Hosp. Serv., Hyg. Lab. Bull.</i>	Treasury Department, U. S. Public Health and Marine Hospital Service. Bulletin. Washington, D.C.	— U.S.
<i>Washington, D.C., U. S. Dept. Agric., Div. Biol. Surv., N. Amer. Fauna</i>	U. S. Department of Agriculture. Division of Biological Survey, North American Fauna, Washington, D.C.	510 U.S.
<i>Washington, D.C., U. S. Dept. Agric. Farm. Bull.</i>	U. S. Department of Agriculture. Farmer's Bulletin, Washington, D.C.	508 U.S.
<i>Washington, D.C., U. S. Dept. Agric. Off. Exp. Sta. Rec.</i>	U. S. Department of Agriculture. Office of Experiment Stations. Experiment Station Record, Washington, D.C.	511 U.S.
<i>Washington, D.C., U. S. Dept. Agric. Rep. Bur. Anim. Indust.</i>	U. S. Department of Agriculture. Annual Report of the Bureau of Animal Industry, Washington, D.C.	512 U.S.
<i>Washington, D.C., U. S. Dept. Int. Geol. Atlas Geol. Surv.</i>	Department of the Interior. Geological Atlas of the United States. U. S. Geological Survey, Washington, D.C.	517 U.S.
<i>Washington, D.C., Yearbook U. S. Dept. Agric.</i>	Yearbook of the U. S. Department of Agriculture, Washington, D.C.	529 U.S.

<i>Watford, Trans. Herts. Nat. Hist. Soc.</i>	Transactions of the Hertfordshire Natural History Society and Field Club, Watford and St. Albans.	148 U.K.
<i>Weidmann, Berlin ...</i>	Der Weidmann. Blätter für Jäger und Jagdfreunde, red. v. Müller-Liebenwalde. Berlin-Charlottenburg. [wöch.]	1106 Ger.
<i>Wellington Coll., Ann. Rep. Nat. Sci. Soc.</i>	Annual Report of the Wellington College Natural Science Society, Wellington. Svo.	425 U.K.
<i>Wellington, Trans. and Proc. N.Zeal. Inst.</i>	Transactions and Proceedings of the New Zealand Institute, Wellington.	— N.Z.
<i>Wernigerode, Schr. natur. Ver.</i>	Schriften des naturwissenschaftlichen Vereins des Harzes in Wernigerode. Wernigerode. [zwanglos.]	1112 Ger.
<i>West Ind. Bull., Barbados</i>	West Indian Bulletin, the Journal of the Imperial Agricultural Department for the West Indies, Barbados.	— W. In.
<i>West Virginia, Morgantown, Pub. Geol. Surv.</i>	Publications of the West Virginian Geological Survey, Morgantown.	531 U.S.
<i>Wien, Abh. ZoolBot. Ges. ...</i>	Abhandlungen der k. k. Zoologisch-Botanischen Gesellschaft in Wien. Red. v. Anton Handlirsch. Wien. [zwanglos.]	405 Aus.
<i>Wien, Ann. NatHist. Hof-mus.</i>	Annalen des k. k. Naturhistorischen Hof-museums. Redig. von Franz Steindachner. Wien. [$\frac{1}{4}$ jährl.]	408 Aus.
<i>Wien, Anz. Ak. Wiss. ...</i>	Anzeiger der Kaiserlichen Akademie der Wissenschaften Mathematisch-Naturwissenschaftliche Klasse. [27 H. jährl.]	409 Aus.
<i>Wien, Arb. Zool. Inst. Univ.</i>	Arbeiten aus den Zoologischen-Instituten der Universität Wien und der Zoologischen Station in Triest. Herausgeg. v. Karl Grobben und Berthold Hatschek. Wien. [zwanglos.]	411 Aus.
<i>Wien, Beitr. Pal. Geol. ÖstUng.</i>	Beiträge zur Paläontologie und Geologie Österreich-Ungarns und des Orients. Mitteilungen des Paläontologischen und Geologischen Institutes der Universität Wien. Herausgegeben mit Unterstützung des hohen Ministeriums für Kultus und Unterricht von Viktor Uhlig und G[ustav] von Arthaber. Wien. [$\frac{1}{4}$ jährl.]	415 Aus.
<i>Wien, Denkschr. Ak. Wiss.</i>	Denkschriften der Kaiserlichen Akademie der Wissenschaften. Mathematisch - Naturwissenschaftliche Klasse. Wien. [zumindest jährl.]	420 Aus.
<i>Wien, JahrBer. Entom. Ver.</i>	Jahresbericht des Wiener Entomologischen Vereines. Wien. [jährl.]	430 Aus.
<i>Wien, JahrBer. Ver. Adria</i>	Jahresbericht des Vereines zur Förderung der naturwissenschaftlichen Erforschung der Adria. Wien. [jährl.]	— Aus.

Wien, <i>Jahrb. Geol. Reichs-Anst.</i>	Jahrbuch der k. k. Geologischen Reichs-Anstalt. Wien. [$\frac{1}{4}$ jährl.]	425 Aus.
Wien, <i>SitzBer. Ak. Wiss. ...</i>	Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Wien. [in 4 Abteilungen, zwanglos.]	472 Aus.
Wien, <i>Verh. Geol. Reichs-Anst.</i>	Verhandlungen der k. k. Geologischen Reichs-Anstalt. Wien. [18 H. jährl.]	477 Aus.
Wien, <i>Verh. ZoolBot. Ges. ...</i>	Verhandlungen der k. k. Zoologisch-Botanischen Gesellschaft in Wien. Red. v. Anton Handlirsch. Wien. [10 H. jährl.]	479 Aus.
Wiesbaden, <i>Jahrb. Ver. Natk.</i>	Jahrbücher des nassauischen Vereins für Naturkunde. Wiesbaden. [jährl.]	1121 Ger.
Wild u. Hund, Berlin ...	Wild und Hund, red. v. Stalhecker. Berlin. [wöch.]	1123 Ger.
Wilson Bull., Oberlin, Ohio, Ornith.	Wilson Bulletin. (Wilson Ornithological Club.) Oberlin, Ohio.	347 U.S.
Wiltsh. Archæol. Mag., Devizes	The Wiltshire Archæological and Natural History Magazine, Devizes.	426 U.K.
Wisconsin, Madison, Geol. Nat. Hist. Surv., Bull.	Wisconsin Geological and Natural History Survey. Bulletin. Madison.	534 U.S.
Wiss. Meeresunters., Kiel ...	Wissenschaftliche Meeresuntersuchungen, hrsg. v. d. Commission zur wissenschaftlichen Untersuchung der deutschen Meere in Kiel u. der Biologischen Anstalt auf Helgoland. Kiel. [zwanglos.]	1127 Ger.
Wochenschr. Aquarienkunde, Braunschweig	Wochenschrift für Aquarien- und Terrarienkunde. Hrsg. v. W. Wolterstorff. Braunschweig. [wöch.]	— Ger.
Wochenschr. Thierheilk., München	Wochenschrift für Thierheilkunde und Viehzucht, hrsg. v. Albrecht und Göring. München. [wöch.]	1136 Ger.
Wood's Holl, Mass., Mar. Biol. Lab. Bull.	Marine Biological Laboratory. Biological Bulletin, Wood's Holl, Mass.	535 U.S.
Wood's Holl, Mass., Mar. Biol. Lab. Lect.	Marine Biological Laboratory. Biological Lectures, Wood's Holl, Mass.	536 U.S.
Woolhope, Trans. Nat. F. Cl.	Transactions of the Woolhope Naturalists' Field Club, Hereford. 8vo.	427 U.K.
Worcester, Trans. Nat. Cl.	Worcester. The transactions of the Worcestershire Naturalists' Club. [Established 1847.]	— U.K.
Wr EntomolZtg, Wien ...	Wiener Entomologische Zeitung. Red. v. Alfred Hetschko und Edmund Reitter. Wien. [10 H. jährl.]	493 Aus.
Wr Klin. Rdsch., Wien ...	Wiener Klinische Rundschau. Organ für die gesamte praktische Heilkunde sowie für die Interessen des ärztlichen Standes. Red. v. F. Obermayer und Karl Kunn. Wien. [wöchentl.]	495 Aus.

<i>Wszechświat, Warszawa ...</i>	Wszechświat, tygodnik poświęcony naukom przyrodniczym, red. Br. Znawca, Warszawa. 4to. [weekly.]	57 Pol.
<i>Würzburg, SitzBer. physik. Ges.</i>	Sitzungsberichte der physikalisch-medizinischen Gesellschaft zu Würzburg. Würzburg. [jährlich in zwangl. H.]	1140 Ger.
<i>Würzburg, Verh. physik. Ges.</i>	Verhandlungen der physikalisch-medizinischen Gesellschaft zu Würzburg. Würzburg. [jährlich in zwangl. H.]	1141 Ger.
<i>Yorks. Proc. Geol. Poly. Soc.</i>	Proceedings of the Yorkshire Geological and Polytechnic Society, Halifax.	430 U.K.
<i>York, Rep. Phil. Soc. ...</i>	Annual Report of the Council of the Yorkshire Philosophical Society, York. 8vo.	431 U.K.
<i>Zaragoza, Bol. Soc. Arag...</i>	Boletín de la Sociedad Aragonesa de Ciencias Naturales, Zaragoza.	— Spain.
<i>Zagreb, Rad. Jugoslav. Ak.</i>	Rad Jugoslavenske akademije znanosti i umjetnosti. [Transactions of the South Slav Academy of Art and Science.] Zagreb.	— Croat.
<i>Zap. Obšč. sel'sk. choz. Južn. Ross., Odessa</i>	Записки Императорскаго общества сельскаго хозяйства Южной Россіи. Одесса [Mémoires de la Société Impériale d'Agronomes de la Russie méridionale. Odessa].	380 Rus.
<i>ZentrBl. Forstwes., Wien ...</i>	Zentralblatt für das gesamte Forstwesen. Organ der k. k. Forstlichen Versuchsanstalt. Herausgegeben von Josef Friedrich. Wien. [monatl.]	506 Aus.
<i>ZentrBl. Physiol., Wien ...</i>	Zentralblatt für Physiologie. Unter Mitwirkung der Physiologischen Gesellschaft zu Berlin und der Morphologisch-Physiologischen Gesellschaft zu Wien herausgegeben von Siegmund Fuchs und J. Munk. Wien und Leipzig. [2 wöchentl.]	510 Aus.
<i>Zool. Anz., Leipzig... ...</i>	Zoologischer Anzeiger, hrsg. v. Carus. Leipzig. [2-3 Nrn monatl.]	1148 Ger.
<i>Zool. Anz., Würzburg ...</i>	Zoologische Annalen. Zeitschrift für Geschichte der Zoologie. Hrsg. von Max Braun. Würzburg.	-- Ger.
<i>Zool. Beob., Frankfurt a. M.</i>	Zoologischer Beobachter. Organ der zoologischen Gärten Deutschlands. Hrsg. v. d. Neuen zoologischen Gesellschaft. Frankfurt a. M. [monatl.]	— Ger.
<i>Zool. Centralbl., Leipzig ...</i>	Zoologisches Centralblatt, hrsg. v. Schuberg. Leipzig. [referierend, 26 Nrn jährl.]	1149 Ger.
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<i>Zs. Natur., Stuttgart</i> ...	Zeitschrift für Naturwissenschaften. Organ des naturwissenschaftlichen Vereins für Sachsen und Thüringen. Stuttgart. [2 monatl.]	1214 Ger.
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<i>Zs. wiss. Insektenbiol., Husum</i>	Zeitschrift für wissenschaftliche Insektenbiologie. Früher: Allg. Zs. Ent. Hrsg. v. C. Schröder. Husum. [monatl.]	— Ger.
<i>Zs. wiss. Mikrosk., Leipzig</i>	Zeitschrift für wissenschaftliche Mikroskopie und mikroskopische Technik, hrsg. v. Behrens. Leipzig. [$\frac{1}{4}$ jährl.]	1218 Ger.
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<i>Zürich, Vierteljahrsch. Natf. Ges.</i>	Vierteljahrschrift der naturforschenden Gesellschaft in Zürich. Zürich und München. 8vo.	125 Swi.
<i>Zwickau, Jahresber. Ver. Natk.</i>	Jahresbericht des Vereins für Naturkunde zu Zwickau. Zwickau. [jähr.]	1253 Ger.

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CORRIGENDA.

- XII. Insecta p. 262 col. 1 line 18, for *Oberco* read *Oberca*.
 „ „ p. 271 col. 2 line 18, for *Glaphyoptertula* read *Glaphyopterula*.
 XVII. Aves p. 85 col. 2 line 8, for *Chysoytilus* read *Chrysopilus*.
 „ „ p. 85 col. 2 line 10, for *Deudrocopus* read *Dendrocopus*.
 „ „ p. 97 col. 2 line 9 from bottom, for *Cimypis* read *Cimypis*.
 XVIII. Mam. p. 75 col. 2 line 10 from bottom, for **sp. n.** read **subsp. n.**
 XV. Pisces p. 43 col. 1 line 24, for **19**, () read **19**, (SI).

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