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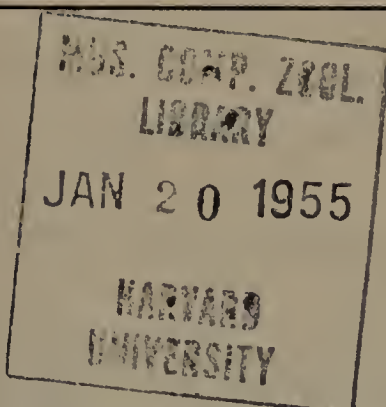
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THE HEMIPTERA-HETEROPTERA OF KENT

By A. M. MASSEE, O.B.E., D.Sc., F.R.E.S.

The first detailed account of the Hemiptera-Heteroptera of Kent was compiled by Edward Saunders entitled "A History of the Kent Hemiptera-Heteroptera," published in the Victoria Histories of the Counties of England (1908).

This admirable faunal list recorded three hundred and thirty species, an indication of the interest shown in this important Order and of the wealth of species noted nearly fifty years ago.

Since that time the number of species known to occur in Kent has steadily increased; details of many of them are given in Butler's classical work entitled "A Biology of the British Hemiptera-Heteroptera" (1923), Bedwell's County Distribution charts published twenty-two years later (1945), and the supplement by Masee (1946).

The writer has been studying the Hemiptera-Heteroptera of Kent and elsewhere since 1919, and records of their habits, host associations and localities have been kept since that time.

The number of species recorded in Kent is very considerable, numbering 416 or approximately eighty per cent. of the recorded British species. In fact, more species and varieties have been recorded in Kent than any other county. Hampshire and the Isle of Wight come next with 396 species and varieties, closely followed by Surrey with 388 representatives of the Order.

Of the hundred species not so far found in Kent, it is probable that some twenty or thirty more species will be added to the fauna when the county has been worked in detail district by district. It may be noted, however, that many of the unrecorded species are confined to the north of England and Scotland, and occur in conditions which do not exist in Kent. For example, many of the *Saldidae* are more prevalent in the northern counties and Scotland, and up to now have not been found in Kent.

The Kent fauna includes many rare and local species, amongst which the following may be noted. *Odontoscelis dorsalis* (Fab.); *Eurygaster austriacus austriacus* (Schr.); *Stollia aenea* (Scop.); *Holcostethus vernalis* (Wolff); *Carpocoris fuscispina* (Boh.); *Jalla dumosa* (L.); *Arenocoris waltlii* (H.-S.); *Bathysolen nubilus* (Fall.); *Ceraleptus lividus* Stein; *Stictopleurus pictus* (Fieb.); *Aradus aterrimus* Fieb.; *Lygaeus equestris* (L.); *Henestaris halophilus* (Burm.); *Pionosomus varius* (Wolff); *Lasiosomus enervis* (H.-S.); *Peritrechus gracilicornis* Puton; *Trapezonotus distinguendus* (Flor); *Aphanus rolandri* (L.); *Emblethis verbasci* (Fab.); *Eremocoris plebejus* (Fall.); *Tingis angustata* (H.-S.);

- Sciocoris cursitans* (Fab.). Common. Deal (D. and S.); Sandwich Bay, Pegwell Bay, New Hythe, Aylesford, Isle of Sheppey and East Malling (M.). Hibernates in adult state in moss. Seems to prefer sandy conditions, but by no means confined to such situations. 4-10.
- Aelia acuminata* (L.). Local. Darenth Wood (D. and S.); Huntingfield (Ch.); Bickley (J.); Deal (Bed.); Isle of Sheppey, Deal and East Malling (M.). Associated with dry, grassy conditions. Hibernates as adult in moss and leaves. 8-9.
- Neottiglossa pusilla* (Gmelin). Locally common and not rare. Sevenoaks, Maidstone, Ryarsh, Bekesbourne, Ham Street, Dungeness, Ditton, Wateringbury and East Malling (M.). Sweeping herbage in grassy situations. Female seems to be the more common of the sexes. Hibernates as adult in heaps of sticks, litter, rubbish, in cut grass, etc. 5-10.
- Stollia fabricii* Kirk. Generally distributed. Darenth Wood (D. and S.); Chatham (C.); Tonbridge (Bl.); Doddington (Ch.); Tunbridge Wells (B.); East Farleigh, Bredhurst, Birling (E.); Hawkhurst (But.); East Peckham, Cobham Wood, Gravesend (T.R.E.S.); Wateringbury, Ditton, Ryarsh and East Malling (M.). This species is associated with Woundwort, etc., and it is much more widespread these days than formerly. Hibernates in the adult state in moss, at roots of plants, etc. 5, 6, 8, 9, 10.
- S. aenea* (Scop.). Rare. Faversham (Wlk.). This appears to be the only Kent record, and the species cannot be traced in Walker's old locality. Its headquarters seems to be Wood Fidley, New Forest, Hants. Hibernates as an adult in moss. 5-9.
- Holcostethus vernalis* (Wolff). Local and rare. Brook (C. A. W. Duffield); Church Woods, Blean; Ham Street (M.). By sweeping cut-down vegetation in woods on very warm days in autumn. Late afternoon and evening August and September, also April and May. Nymphs mature second half of August. It has not been possible to trace host plant, but it is probably a low-growing species of woodland plant. 4, 5, 8, 9, 10.
- Palomena prasina* (L.). Generally common. East Malling (M.). This species is associated with Hazel and occurs wherever the plant grows. The so-called brown form which occurs in the autumn and winter (and has been described as a variety on the Continent) is merely the overwintering form of the insect, and turns green again in the spring soon after feeding starts. 4-10.
- Pitedia juniperina* (L.). Very rare. Tunbridge Wells (Power collection). This species has not been taken in Kent for very many years, or indeed anywhere in the country. The recent record from Salisbury, Wiltshire, proved to be erroneous. Hibernates under Juniper bushes upon which it feeds.
- Carpocoris fuscispina* (Boh.). Very rare. Wye (C. A. W. Duffield). Very little is known about this shield bug under English conditions, but it may turn up in some numbers when a thorough search is made for it in East Kent. On the Continent it overwinters in the adult stage. 8.
- Dolycoris baccarum* (L.). Very common. Dover (H.); Bickley (J.); Doddington (Ch.); Ightham (T.R.E.S.); Ryarsh, Mereworth, Aylesford, Darenth Wood, Ham Street, Blean, East Malling (M.). This species is known to local fruit growers by the name "Sloe Bug" and it feeds on green fly and

other insects of plums and damson. It also occurs on thistle heads in late August and September. Hibernates as adult at the roots of plants. 4, 5, 9, 10.

Eurydema oleraceum (L.). Widely distributed and common. Dover (H.); Deal (S.); Huntingfield (Ch.); Kingsdown, near St. Margaret's Bay (Bed.); Ryarsh, Boughton Monchelsea, Cuxton, Sandwich Bay, Aylesford, Otford, Birling and East Malling (M.). Several colour forms, including the black form, also occurred at East Malling in September, 1945. Overwinters in the adult state in moss. This species is associated with Wild Radish and other Cruciferous plants. 5, 6, 7, 8, 9.

E. dominulus (Scop.). Local and not common. Kingswood, Sutton Valence (E.); Doddington (Ch.); Otford (P. Harwood); Teston, Maidstone, West Malling and East Malling (M.). This shield bug is associated with the Cuckoo Flower and other Cruciferous plants. Overwinters in moss in the adult state, and occurs in cut-down chestnut woods where the Cuckoo Flower grows. The insect moves on readily when the situation in which it lives becomes untenable. 4, 5, 8, 9.

Piezodorus lituratus (Fab.). Locally common. Dover (H.); Plumstead, Brockley, Abbey Wood (W.); West Malling (E.); Ryarsh, Wrotham Heath, Ham Street, East Malling (M.). Overwinters on the bushes and in the debris under furze bushes in the adult state. 4, 5, 8, 9, 10.

Pentatoma rufipes (L.). Generally common in suitable situations. Dover (H.); Shooters Hill (W.); Huntingfield (Ch.); Ham Street, Sevenoaks, Ide Hill, Tenterden, Marden, Chatham, Rochester, East Malling (M.). Although this predacious species is usually associated with oak, it sometimes occurs on cherry in June and causes much annoyance to cherry pickers. The Forest Bug overwinters in the second and third instars. It is predacious on Lepidopterous larvae of the Winter moth group, hence its presence on cherry and other fruit trees. One adult captured at the end of October and another in April. 4, 5, 6, 7, 8, 9, 10.

Acanthosoma haemorrhoidale (L.). Common. Abbey Wood, Lewisham (W.); Deal (H.); Barming (E.); Doddington (Ch.); Cobham Park, Snodland, Teston, Sevenoaks, Tonbridge, East Malling (M.). Other localities too numerous to enumerate. This shield bug is associated with hawthorn and other trees, and occurs more commonly on hawthorns carrying berries. Hibernates in the adult state, but this very common shield bug is rarely noted in the winter months. 1-12.

Elasmotethus interstinctus (L.). Generally distributed in suitable localities. Plumstead (B.); Shooter's Hill, on oak (W.); Ham Street, Sevenoaks, Cobham Park, Ryarsh Roughettes, Mereworth Woods, Charing, Hothfield, West Malling and East Malling (M.). This species would appear to breed exclusively on birch bushes which are fruiting. The nymphs feed on the developing catkins. Hibernates in adult state in leaves and moss, but like the former species is rarely seen. 1-12.

Elasmucha grisea (L.). Generally common in suitable localities. Shooter's Hill (W.); Herne Bay (But.); Doddington (Ch.); Cobham Park, Hothfield, Maidstone, Rochester, Sevenoaks and East Malling (M.). Associated with birch and usually occurs on the fruiting bushes. Overwinters in the adult stage. 2-11.

Cyphostethus tristriatus (Fab.). Rare. Pilgrim's Way, Ryarsh (M.). On Juniper. 9.

Picromerus bidens (L.). Generally common. Folkestone (W.); Boxley (E.); Deal (N.); Sevenoaks, Ham Street, Tonbridge, East Malling (M.). This species is predacious and the nymphs stalk about amongst the foliage of many trees and bushes in search of Lepidopterous larvae. A specimen on willow was noted feeding on three specimens of the larvae of the Willow beetle, *Phyllodecta vitellinae* (L.). This shield bug overwinters in the nymphal state in moss; adults seen in November and April. 3-11.

Troilus luridus (Fab.). Generally distributed in Kent. Darenth (C.); Abbey Wood (W.); Maidstone, Tonbridge, Sevenoaks, Rochester, Ham Street, Southfleet, Faversham, East Malling (M.). The species is predacious on Lepidopterous and Coleopterous larvae, and the nymphs are found on a wide variety of trees. The species usually hibernates in the adult state, but may occasionally overwinter in the nymphal form also. 3-10.

Eysarcoris punctatus (L.). Very local and rare. Darenth (C.); Abbey Wood (W.); Hothfield, East Malling (M.). This species overwinters in the adult state. In September, 1948, the adult of this species occurred in numbers in sphagnum moss in Hothfield Bog. It is a little difficult to say how the shield bugs manage to hibernate in sphagnum moss under water. A number were seen coming out of hibernation from Hothfield Bog in April, 1939. 1-12.

Jalla dumosa (L.). Very rare. One larva in July. Deal (S.). This species has not been taken in the county for many years, and must be regarded as doubtfully British. The larva was found whilst beating Sea Buckthorn according to the late G. C. Champion.

Zicrona caerulea (L.). Not common in Kent. Chatham, Canterbury, Higham (C.); Wye (Bed.); Ham Street, East Malling (M.). Hibernates in the adult state in moss under Conifer trees. 4-9.

COREIDAE

Enoplops scapha (Fab.). Not common. Folkestone (D. and S.); St. Margaret's Bay (H., Bed.); Sandwich Bay (B.); Dover (N.). Hibernates at the roots of Marram grass in sandy situations in the adult state. 4, 5, 7, 9.

Coreus marginatus (L.). Locally common. Dover (H.); Deal, Blean Woods (Ch.); Wrotham Heath, Bekesbourne, East Malling (M.). This species is associated with dock. Both adult and nymphal forms are gregarious on the flower and seed heads of the plant. It overwinters in the adult state at the roots of dock and suitable adjacent situations. 8-10.

Syromastus rhombeus (L.). Local and not common. Deal (D. and S.); Darenth (C.); East Malling (M.). It would seem that this species is associated in some way with Bladder Champion. It lives amongst plants growing in sandy situations, and hibernates in the adult state in the soil, at the roots of plants. 5-9.

Spathocera dahlmannii (Sch.). Rare. Deal (But.). This insect occurs on bare and arid tracts of land sparsely studded with plants of sorrel. It is very partial to areas which have been burnt. The adults mature in August, and the species overwinters in the adult state. 4, 5, 8, 9.

Arenocoris fallenii (Sch.). Locally common in coastal areas. Deal (D. and S.); Greatstone, Littlestone (M.). This insect occurs in sandy situations and is associated with *Erodium*, *Ononis*, etc. It overwinters in the adult state, at the roots of plants. 5-9.

A. walthii (H.-S.). Very rare. Deal (H. W. Daltry).

Bathysolen nubilus (Fall.). Very local and rare. Deal (Scott); Plumstead (A. A. Allen); Aylesford, New Hythe, Darenth, Ditton, Eccles, Cuxton and East Malling (M.). This species does not appear to be associated with plants growing in particular soil associations, since it occurs on chalk, sand, clay and even a pathway made of ashes. However, it prefers ground where plants grow very sparsely. It may be associated with Black Medick, but this remains to be proved. Hibernates in the adult state. This species had been found only once in Kent at Deal, until Dr. G. H. L. Dicker and I found it again simultaneously one week-end in July, 1945. 7, 8, 9.

Ceraleptus lividus Stein. Local and rare. Deal (Power, Bed.); Chattenden (C.); Darenth, Sandwich Bay, Bekesbourne, Aylesford, New Hythe, East Malling (M.). This species is found in various situations such as amongst Marram grass on sand dunes, sand pits, chalk pits. At Darenth and Aylesford it was always associated with Black Medick and trifolium, but this may have been a coincidence, because nymphs could not be reared on these plants. Hibernates in the adult state at the roots of plants. 7, 8, 9.

Coriomeris denticulatus (Scop.). Common and generally distributed. Darenth, Folkestone, Eltham (D. and S.); Plumstead (C.); Tonbridge (Bl.); Margate (B.); Lee (W.); Deal (N.); Doddington (Ch.); New Hythe, Bekesbourne, Aylesford, Cobham Park, East Malling (M.). Particularly associated with Hare's-foot Trefoil, and is most abundant in August. A specimen was found at East Malling in May, 1945, on a dead squirrel, with proboscis embedded in the flesh, and apparently feeding. Hibernates in soil, and in moss in the adult state. 4, 5, 8, 9, 10.

Dicranomerus medius (M. and R.). Local and rare. Barming (E.); Darenth Wood (C.); Aylesford, Blean, East Malling (M.). This species has only recently been separated from *D. agilis* (Scop.) thus some of the earlier records are likely to be confused. These have been omitted. This species is usually associated with Wood Spurge, but at Aylesford it occurs on *Euphorbia esula* L. The species is considered to be predacious, the only purpose of the host plant is for oviposition. Hibernates in the adult state. 4, 5, 6, 8, 9.

D. agilis (Scop.). Rare. Folkestone (H.). There does not appear to be an up-to-date record of this species in Kent. It is associated with Sea Spurge, but this plant is not very plentiful in Kent these days. The insect does not occur on the Sea Spurge at Deal. Hibernates in the adult state. 8.

Alydus calcaratus (L.). Local. Plumstead Common, Folkestone (D. and S.); Isle of Sheppey, Wrotham Heath, Aylesford (M.). This species is associated with the Wood Ant and other species, and is usually found in sandy situations. Hibernation stage not known to writer. 7, 8, 9.

Rhopalus maculatus (Fieb.). Rare. Sandwich Bay (B.). This is the only locality in Kent where it is known to occur. Hibernates in the adult state.

R. subrufus (Gmelin). Generally distributed. Isle of Sheppey, Chatham (C.); Herne Bay (S.); Barming (E.); Huntingfield (Ch.); Wrotham, East

- Peckham (T.R.E.S.); Maidstone, Sevenoaks, Ham Street, Cuxton, Dartford, East Malling (M.). Sweeping mixed herbage in woodland situations, such as recently cut-down areas. Grassy banks, etc. This is the common Kent species. Hibernates in the adult state. 4, 5, 6, 7, 8, 9.
- R. parumpunctatus* Sch. Local. Deal (D. and S.); Chatham (C.); Huntingfield (Ch.); Abbey Wood (W.). Associated with grassy situations in dry places. Also partial to *Erodium*. Hibernation in the adult form. Eggs laid in spring months. 8, 9.
- Stictopleurus punctatonervosus* (Goeze). Rare. Deal (C.). Sand dunes.
- S. pictus* (Fieb.). Rare. Deal (C.). This species was captured by Champion while sweeping mixed herbage. No further information is available. The species overwinters in moss in the adult stage according to Continental authorities. 8.
- Myrmus miriformis* (Fall.). Very common in suitable situations. Dartford Brent (D. and S.); Folkestone, Deal (H.); Swalecliffe (But.); Kidbrook (W.); Doddington (Ch.); Otford, West Malling, Sevenoaks, Tenterden, Marden, Rochester, East Malling (M.). Generally common in grassy situations. Macropterous forms locally common in the East Malling district and elsewhere, but probably overlooked. Overwinters in the egg state on *Erica*. 7, 8, 9.
- Chorosoma schillingii* (Sch.). Local. Deal (D. and S.); Margate (B.); Swalecliffe (But.); Sandwich Bay and Deal (M.). Common on flower and seed heads of Marram grass in August and September. Overwinters in the egg state. 8, 9.

ARADIDAE

- Aradus depressus* (Fab.). Locally common. Bromley (S.); Darenth Wood (Mar.); Tonbridge (Bl.); Doddington (Ch.); Blackheath (A. A. Allen); Chatham, Sevenoaks (C.); Mereworth, West Malling, East Malling (M.). This species occurs under the bark of oak, apple, beech, etc. Overwinters in the adult state under bark. 1-12.
- A. aterrimus* Fieb. Locally common in a few districts. Darenth Wood, one specimen, 30th May, 1861 (D. and S.); Mereworth, Offham, Teston, Higham, Ham Street, West Malling and East Malling (M.). When this species was re-discovered in a pile of wood chips in Oaken Wood, East Malling, on 4th October, 1936, it had not been found for seventy-five years. It occurs in piles of chestnut wood chips, made by woodcutters during the course of felling the chestnut woods of Kent. All stages of the bug occur in the piles of chips, and it is believed to be associated with mould growing on the decaying chips. Adults occur all the year round. The species moves from one part of a wood to another as suitable conditions occur. 1-12.
- A. corticalis* (L.). The only Kent record is West Wickham, where it was found by Douglas and Scott under the bark of firs. It has not been found in the county for very many years.

BRACHYRHYNCHIDAE

- Aneurys laevis* (Fab.). Common in mid-Kent and elsewhere. Bromley (S.); Darenth Wood (Mar.); Chatham (C.); Seal Chart (T.R.E.S.); Westerham, Maidstone, West Malling, Rochester, Ham Street, Sevenoaks, Tonbridge, East Malling (M.). Under bark of many kinds of trees, oak, ash, beech,

elder, etc. Adults occur all the year round, and the eggs and nymphal stages are found in most months. 1-12.

A. avenius (Dufour). Very local and rare. Chatham (C.); Wye, Ashford (Bed.); Ryarsh, Blean, Sandwich Bay, Birling (M.). Under loose bark of dead privet stems, elder, spindle and wayfaring tree. Would appear to feed on fungus growing under the bark. Adults occur all the year round, and immature forms in most months. 1-12.

NEIDIDAE

Neides tipularius (L.). Not common. Deal, Folkestone (D. and S.); Sandwich Bay, Bekesbourne, Maidstone, Sevenoaks, East Malling (M.). This species occurs in a number of situations such as sand dunes, dry situations in woods and even in dry leaves. Hibernation occurs in the adult state in hay and corn stacks, dry grass, leaves, and in moss on sand dunes. 5, 6, 7, 8, 9.

Berytinus clavipes (Fab.). Not common in Kent. Darenth Wood, Folkestone (D. and S.); Whitstable (C.). This species is associated with *Ononis*. It has not been recorded in Kent for many years, but most certainly occurs in many parts of the county. Hibernates in the adult state at roots of *Ononis*. 8, 9.

B. minor (H.-S.). Common in all parts of Kent. Lee (W.); Charlton, Deal (D. and S.); Aylesford, Otford, Wrotham Heath, East Malling (M.). Common on waste ground at the roots of plants. Particularly on ground with sparse vegetation. Macropterous form occurs at Aylesford, East Malling and elsewhere. Commonly associated with Black Medick and Yarrow. Host plant White Clover. Hibernates in the adult state in moss, and at the roots of plants. 4-9.

B. montivagus (Mey.-D.). Common in suitable situations. Folkestone, Charlton (D. and S.); Isle of Sheppey, Chatham (C.); Doddington (Ch.); St. Margaret's Bay (Bed.); Aylesford, Southfleet, Eccles, East Malling (M.). All stages of this species associated with Black Medick, upon which it feeds. It overwinters in the adult state under its host plant. 4, 5, 7, 8, 9, 10.

B. signoreti (Fieber). Very common in many parts of Kent. West Wickham, Deal (D. and S.); Dover (H.); Isle of Sheppey, New Hythe, Cliffe, Birling, East Malling (M.). Macropterous form collected at New Hythe in sandy situation. The species is plentiful in moss, but also occurs about the roots of many kinds of low plants. Hibernates as adult in moss, dry leaves and hedge bottoms. 4, 5, 7, 8, 9.

B. crassipes (H.-S.). Local and not common. Bexley (D. and S.); Deal (Bed.); New Hythe, Otford, Sandwich Bay, Aylesford, East Malling (M.). This species is found at roots of various kinds of grass, including Meadow Grass, and is usually found singly or at most in small numbers. Some seasons the macropterous form is not uncommon, as for example, in 1952 it was common in a sandy situation at Aylesford. Hibernates in the adult stage at the roots of grass. 5, 6, 8, 9, 10.

Metatropis rufescens (H.-S.). Very local. Sevenoaks, Teston, Wateringbury, East Malling (M.). This stilt bug is associated with Enchanter's Nightshade, but by no means occurs wherever the plant grows. Overwinters in

adult state in moss. Large number found in moss in January at Teston. 1, 5, 6, 7, 8, 9.

Gampsocoris punctipes (Germar). Common in suitable situations where its host plant occurs. Folkestone, Deal (D. and S.); Sandwich Bay, St. Margaret's Bay, Dover, Isle of Sheppey, Greatstone, Littlestone (M.). Associated with *Ononis* and frequently present in numbers where the plant grows in sandy places. Adults overwinter in moss and at the root of its host plant. 8, 9, 10.

LYGAEIDAE

Lygaeus equestris (L.). Very rare, probably not indigenous. 7th September, 1886, Dover (H.); 22nd September, 1906, Sheerness, Isle of Sheppey (Jacobs); 29th August, 1907, St. Margaret's Bay (Hudson Beare). There do not appear to be any recent records of the capture of this beautiful Lygaeid.

Macroparius thymi (Wolff). Very common in suitable localities. Deal (D. and S.); Swalecliffe (But.); Blackheath (A. A. Allen); New Hythe, Sandwich Bay, Greatstone, Littlestone, Dungeness, Darenth chalk pit, East Malling (M.). This species usually occurs in sandy situations, not necessarily near the sea. It rests and runs about in the sand where clover, trifolium and *Erodium* grow. Hibernates in the adult state at roots of low plants. 8-9.

The var. *maculatus* D. and S. occurs with the type form, but does not appear to be very common in Kent. Deal and Sandwich Bay (M.).

M. helveticus (H.-S.). Rare. Plumstead (W.). Heather. 8, 9.

Cymus clavicolus (Fall.). Common. Dartford, Lewisham (D. and S.); Plumstead Marshes (W.); Deal, Sandwich Bay, Aylesford, Dungeness, East Malling (M.). Associated with *Polygonum* and other plants. It is at home in wet conditions, but occurs in dry situations also. Overwinters in adult state at roots of plants. 6, 7, 8, 9, 10.

C. melanocephalus Fieb. Rare. Lynstead (M.). Sweeping rushes in damp situations at the edge of streams. 9, 10.

C. glandicolor Hahn. Generally distributed. Lee (D. and S.); Grove Park (W.); Snodland, New Hythe, Marden, East Malling (M.). Associated with species of sedge, and probably occurs in most situations where these plants grow. Hibernates as adult. 1-12.

Kleidocerys resedae (Panz.). Generally distributed where birch grows. Deal (But.); Darenth (C.); Doddington (Ch.); East Malling (M.). The chief host plant of this insect in Kent is birch, although it has been recorded on many other hosts in addition. For example, it sometimes occurs on apple foliage in the spring months—but in captivity will not live on this host. It hibernates in the adult state, under bark, etc. Occasionally under apple bark. 8, 9, 10.

K. ericae Hor. Common in healthy situations. Plumstead (W.); Tunbridge Wells, Tonbridge, Sevenoaks, Hothfield, East Malling (M.). Sweeping heather. Hibernates at the roots of the plant in the adult state. 8, 9.

Ischnodemus sabuleti (Fall.). Very local. Folkestone (Lewis); Woolwich (A. A. Allen); Blean (M.). Usually occurs in damp situations, and is found at the roots of many plants, and it is partial to rushes. This species is gradually spreading into new districts in the South of England, and will

probably turn up in many new Kentish localities. Adults and nymphs have been found at the end of March, thus the insect probably hibernates in all stages. Macropterous form occurs at Blean. 5, 6, 8, 9, 10.

Henestaris laticeps (Curtis). Very local and rare. Deal (B.); Isle of Sheppey (Bed.); Faversham (M.). This species likes dry conditions and occurs on hard, dry ground sparsely studded with plantain and fine grass. Hibernates in adult state at the roots of low plants. 8, 9.

H. halophilus (Burm.). Very local and rare. Hampton, near Herne Bay (S.); Whitstable, Isle of Sheppey (C.); Swalecliffe (But.); Doddington (Ch.); Higham Salt Marshes (M.). Sweeping Sea Purslane (*Atriplex portulacoides* L.) in very wet situations. It is not known in which stage or where the insect hibernates, but adults have been found in the salt marsh at Higham in late October, and again at the same place early in April. It is thought, therefore, that it overwinters in the adult state. 4, 8, 9, 10.

Chilacis typhae (Perr.). Not common. Deal (S.); Marden, Headcorn, East Malling (M.). In the heads of reedmace. The species overwinters in the adult state in the "bullrush" or in leaves at the edge of the pond where the plant grows. 3, 4, 8, 9, 10.

Heterogaster urticae (Fab.). Common and generally distributed in Kent. Localities too numerous to record in detail. Deal, Charlton (D. and S.); Abbey Wood (W.); Tunbridge Wells, Sevenoaks, Southfleet, Maidstone, Medway Towns, Tenterden, Canterbury, Faversham, Marden, East Malling (M.). Usually associated with nettle. Hibernates in the adult state in grass, nettle beds, weeds, etc. 1-12.

Pachybrachius fracticollis (Sch.). Rare. Hothfield (Bed.). Marshy situations.

P. luridus Hahn. Rare. Hothfield (Bed.). Sphagnum in marshy localities.

Megalonotus antennatus (Sch.). Local. Sheerness, Isle of Sheppey, Whitstable, Chatham (C.); Herne Bay (S.); Blean, Ham Street (M.). In damp litter and under dead rushes in young fir plantations and woods. Seems to prefer damp situations, but is found occasionally on dry bare ground in August. Overwinters in adult state in cut grass, rushes, etc. 4, 8, 9, 10.

M. praetextatus (H.-S.). Local. Deal (D. and S.); Sandwich Bay, Greatstone, Littlestone, Dungeness, Margate, East Malling (M.). The species prefers light sandy conditions, and it is very plentiful on the sand dunes at Deal and Sandwich Bay. However, it occurs inland as well. The form in which it hibernates is not known, but since adults have been seen at Deal in March, it probably overwinters in the adult state. 3-9.

M. dilatatus (H.-S.). Very local and rare. Shooter's Hill, Blackheath (W.); Faversham (Ch.); Wrotham Heath (M.). This insect is associated with sandy, heathy areas, and is often plentiful where it occurs. Winter is spent in the adult state. 8, 9.

M. chiragra (Fab.). Common. Herne Bay (S.); Doddington (Ch.); New Hythe, Ryarsh, Deal, Sandwich Bay, Pegwell Bay, East Malling (M.). Sandy ground, covered with low plants, such as clover, Medick, etc. Hibernates in the adult state. 3, 4, 8, 9. Var. *nigricornis* Doug. New Hythe (M.). Var. *sabiculticola* Thms. New Hythe (M.).

Tropistethus holosericeus (Sch.). Very rare in Kent. Dungeness (M.). This species has been recorded only from half a dozen counties. It occurred at

- Dungeness in June, 1952, in moss growing amongst shingle. Hibernates in the adult state in moss. 6 (Kent), 8, 9, 10.
- Ischnocoris angustulus* (Boh.). Rare. Dartford, Tunbridge Wells (D. and S.) (M.). Occurs on heathy land under heather, frequently in association with ants. Hibernates in the adult state. 4, 8, 9.
- Macrodema micropterum* (Curtis). Rare. Plumstead, Tunbridge Wells (D. and S.); Westerham (M.). Under heather on heathy ground. Hibernates in the adult state. 4, 8, 9, 10, 11.
- Pionosomus varius* (Wolff). Rare. Deal (Wlk.) (M.); Sandwich Bay (Curtis, Wlk., M.); Littlestone (M.). Sandy conditions, under *Erodium*, etc. Rediscovered at Sandwich Bay in September, 1950, in the same locality where it was found originally very many years ago by Parfitt. Hibernates in the adult state. 5, 9.
- Plinthisus brevipennis* (Lat.). Local. Dartford (D. and S.); Sheerness, Isle of Sheppey, Chatham (C.); Doddington (Ch.); Folkestone (W.); Dover (H.); Greatstone, Wrotham Heath, Deal, Dungeness, East Malling (M.). Inhabits sandy places where it is often common. Hibernation takes place in adult state in leaves and moss. 5, 6, 7, 8, 9.
- Lasiosomus enervis* (H.-S.). Rare. Chatham (C.); Huntingfield (Ch.); Ham Street (M.). Found in dry, rush litter, piled up in little heaps, by the side of channels cut to drain off water from young conifer plantation at Ham Street. Also by sweeping in the same locality. Hibernates in the adult state in moss, litter, etc. Said to resemble *Stygnocoris pedestris* Fall., but was recognized at once in the field. 5, 9, 10.
- Acompus rufipes* (Wolff). Rare. Snodland, Chatham (C.). This species inhabits marshy places and frequently occurs in very wet conditions. Hibernates in the adult state. 1-12.
- Stygnocoris rusticus* (Fall.). Very local. Lee, Beckenham (D. and S.); Swalecliffe (But.); New Hythe, Bekesbourne, Eccles, East Malling, (M.). This species is associated with self-heal and occurs in woodland situations, sand pits, and even open ground. It hibernates as an adult in dead leaves, moss and hedge bottoms. The developed form has been noted on two occasions at East Malling. 7, 8, 9, 10. The species is less common in Kent now than it was thirty years ago.
- S. pedestris* (Fall.). Very common. Dartford Brent (D. and S.); Deal, Dover (H.); Tolehurst (Ch.); Lee (West); Ryarsh, Pegwell Bay, Sandwich Bay, Wrotham Heath, Bekesbourne, Ham Street, East Malling (M.). Associated with low plants. Abundant wherever vegetation grows. Hibernates in the adult state. 1-12.
- S. fuliginus* (Geoff.). Common and generally distributed. Deal, Dover (H.); Lee (W.); Swalecliffe (But.); Doddington (Ch.); New Hythe, Sandwich Bay, Isle of Sheppey, Ryarsh, Sevenoaks, Higham, Dungeness, East Malling (M.). Generally common amongst coarse vegetation and low plants. Adult hibernates in leaves and moss. 1-12.
- Peritrechus sylvestris* (Fab.). Common in suitable situations. Darenth, Bexley (D. and S.); Deal (S.); Dover (H.); Shooter's Hill (W.); Hothfield (E.); New Hythe, West Malling, Ryarsh, Bekesbourne, East Malling (M.). Common in woodland situations. Hibernates in the adult state in leaves and moss. 4, 8, 9.

- P. geniculatus* (Hahn). Widespread. Lee (W.); Swalecliffe (But.); Bickley (J.); Deal, Trottiscliffe, Old Wives Lees, Wrotham Heath, Bekesbourne, Ham Street, Otford, Sandwich Bay, Higham, Darenth Wood, Charing, East Malling (M.). This insect occurs on the ground amongst coarse vegetation, and is generally common in all parts of Kent. Hibernates in the adult state. 1-12.
- P. gracilicornis* Puton. Very local and rare. Deal (Bed.) (M.). Two specimens taken by the late E. C. Bedwell and one by myself on the sand dunes at Deal. This species occurs in company with the very common *P. geniculatus* Hahn and is doubtless overlooked in consequence. Superficially both species are very much alike. 9.
- P. nubilis* (Fall.). Very local and rare. Dartford (D. and S.); Whitstable, Deal (C.); Herne Bay (S.); Swalecliffe (But.); Bekesbourne, Iwade, St. Margaret's Bay, Higham (M.). This insect occurs both in woodland situations and in salt marshes, and seems equally at home under both sets of conditions. It hibernates in the adult state. 3, 7, 8, 9, 10.
- Trapezonotus distinguendus* (Flor). Very rare. Whitstable (C.); Doddington (Ch.). There are no recent records of the occurrence of this insect in Kent.
- T. arenarius* (L.). Common in suitable localities. Deal (D. and S.); Darenth Wood (Douglas); Swalecliffe (But.); Doddington (Ch.); Sandwich Bay, Mereworth Woods, East Malling (M.). On sand dunes among Marram grass. In woods under fir trees, amongst needles and cones. Also in low growing vegetation. Hibernates in the adult state. 5, 6, 8, 9. The dark variety of this species is sometimes prevalent at Deal.
- T. dispar* Stal. Not common and local. Wrotham Heath, Ham Street, Seal, Blean, East Malling (M.). Sandy conditions under heather; beating fir and pine, dead leaves under fir trees. Hibernates in the adult state. 4, 6, 8, 9. The dark variety occurs at East Malling and Wrotham Heath.
- Aphanus rolandri* (L.). Very local and rare. Darenth Wood (D. and S.); Plumstead and Dartford (C.); Darenth chalk pit, Blean, East Malling (M.). Edges of cultivated fields, in old pea haulm, cut grass, readily trapped in corrugated cardboard, old sacking and upturned boxes. Also attracted to paper cartons and brown paper bags placed at headlands of arable fields. The species overwinters in the adult state. 3, 4, 5, 7, 8, 9.
- Rhyparochromus alboacuminatus* (Goeze). Very local and rare. Lee (D. and S.); Ashford (Mar.); Gravesend (S.); Cobham, Darenth chalk pit, East Malling (M.). This insect is extremely agile during warm sunny weather. Under and about large piles of cut-down tree trunks in the corners of orchards. Also at the base of hedge bottoms, particularly where the hedge has gaps. Hibernates in the adult state. The macropterous form occurs in Kent, at Cobham (M.), but it is not very common. 3, 4, 5.
- R. pini* (L.). Local. Chatham, Darenth Wood (C.); Doddington (Ch.); Bekesbourne, Brook, Eccles, Ham Street, East Malling (M.). Often associated with fir and pine trees. In dead leaves in sandy situations, grass and brambles. Hibernates in the adult state. 4, 7, 8, 9, 10.
- R. lynceus* (Fab.). Very local. Dartford Heath (Scott); Deal (Douglas) (M.); Sandwich Bay (M.). In Kent this very local species seems to be mainly confined to the Deal and Sandwich Bay sand dunes, where it is frequently not uncommon. Hibernates in the adult form. 4, 7, 8, 9.

- Beosus maritimus* (Scop.). Local. Deal, Sandwich Bay, Littlestone (M.). At and about the roots of Marram grass. The dark form of the species occurs at Deal. Adult hibernates at the roots of Marram grass. 4, 5.
- Emblethis verbasci* (Fab.). Very local and rare. Sandwich Bay (Duffield); Deal (S.) (M.). The very local species may be found occasionally amongst the Marram grass on the sand dunes of Deal and Sandwich. Hibernates in the adult state at the roots of Marram grass. 4, 9.
- Drymus pilipes* Fieber. Rare. St. Margaret's Bay (Bed.); Trottiscliffe (M.). In moss at the roots of grass. Hibernates in the adult state. 9, 11.
- D. pilicornis* (Muls.). Rare. Isle of Sheppey (C.). This appears to be the only Kent record. Hibernates in the adult state. 6, 9.
- D. confusus* Hor. Rare. St. Margaret's Bay (Bed.). The late Mr. E. C. Bedwell took three specimens in moss on a hedge bank in September, 1921, and another at the same place and time two years later. 9.
- D. sylvaticus* (Fab.). Generally common and widely distributed. Dover (H.); Lee (W.); Swalecliffe (But.); Doddington (Ch.); East Malling (M.), and other localities throughout Kent. Hibernates in the adult state in grass, sticks, moss, vegetation, etc. 1-12. The variety *ryei* D. and S. is common at Otford and East Malling and many other Kentish localities. 1-12.
- D. brunneus* (Sahl.). Generally distributed. Doddington (Ch.); East Malling (M.). Localities far too numerous to give in full. Hibernates in moss, leaves, vegetation, etc., in the adult state. 1-12.
- D. piceus* (Flor.). Very local and rare. Tunbridge Wells (S.). This appears to be the only Kent record. The writer has failed to find the species in apparently suitable conditions. Hibernates in the adult state in sphagnum moss growing in very wet conditions. 8, 9, 10.
- Eremocoris plebejus* (Fall.). Rare. St. Margaret's Bay (P. Harwood, M.). In thick moss under fir trees about one mile from coast. This species hibernates in the adult state in moss. 4, 5.
- E. podagricus* (Fab.). Very local. Cobham Park, Ryarsh, Darenth and Trottiscliffe (M.). Associated with vegetation in chalky situations. Amongst dry leaves under hawthorn trees in August and September. The species runs about freely on bare ground under the bushes. Hibernates in the adult state. 4, 9, 10, 11.
- E. fenestratus* (H.-S.). Very local. Chatham (C.); Blue Bell Hill, Otford (M.). In heaps of hedge brushings in autumn months; also in moss. Under heather, etc. Hibernates in the adult state. 4, 6.
- Scolopostethus pictus* (Sch.). Very rare in Kent. East Malling (M.). One specimen taken by sweeping in grassy lane. Overwinters in the adult stage in corn stacks. 6.
- S. grandis* Hor. Very local. Tunbridge Wells (S.); Wrotham Heath, Ryarsh, Ham Street (M.). In leaves, under heather, in sand pit, and under trees in woods. Hibernates in adult state. 3, 6, 8, 9, 10.
- S. affinis* (Sch.). Very common and widely distributed. Dover (H.); Lee, Lewisham, Kidbrook, West Wickham (W.); Huntingfield (Ch.); East Malling (M.). Records too numerous to outline in detail. In moss, grass, hay and corn stacks, refuse, nettles. Hibernates in adult state, which occurs all the year round. The macropterous form occurs at East Malling and New Hythe and many other localities. 1-12.

- S. thomsoni* Reut. Local. Dover (H.); Lee, Lewisham, Kidbrook (W.); St. Margaret's Bay (S.); Trottiscliffe, Ryarsh, Otford, Ham Street, East Malling (M.). In rough herbage, leaves, moss, and it is very partial to nettle. The adult occurs all the year round. 1-12. The macropterous form occurs at East Malling.
- S. decoratus* (Hahn). Common. Dover (H.); Plumstead (W.); Tolehurst (Ch.); Ham Street, East Malling (M.). Localities too numerous to record. Generally associated with heather, but by no means confined to this situation. It hibernates in the adult state, which occurs all the year round. 1-12.
- S. puberulus* Hor. Rare. Brook and Wye (M.). This species is found in moss on the slopes of the Downs in wooded areas. Hibernates in moss in the adult state. 3, 4, 5, 9.
- Taphropeltus contractus* (H.-S.). Generally distributed. Otford, Deal, Ham Street, Tilmanstone, Dungeness, East Malling (M.). In leaves, moss, rubbish, grass, etc. Overwinters in the adult state in hedge bottoms, moss, leaves, etc. 3, 4, 8, 10, 11.
- Gastrodes grossipes* (Degeer). Locally common. Birch wood (Mar.); Ham Street, Sevenoaks, East Malling (M.). Beating Scots pine. Adult found all the year round, and it overwinters in this form. 1-12.

PIESMIDAE

- Piesma maculata* (Cast.). Generally distributed. Lee, Bickley (D. and S.); Dover (H.); Deal (N.); Doddington (Ch.); Otford, Darenth Wood, Ham Street, East Malling (M.). In moss, litter, refuse, grass, faggots, etc. Hibernates in adult state which occurs all the year round. 1-12. Macropterous form occurs at East Malling (M.).
- P. quadrata* (Fieb.). Common in suitable localities. Plumstead Marshes (W.); Dover (N.); Swalecliffe (But.); Isle of Sheppey, Higham, Iwade, Gillingham, New Hythe (M.). Associated with *Chenopodiaceae*. Overwinters in the adult state. 3, 5, 7, 8, 9.

TINGIDAE

- Campylosteyra verna* (Fall.). Not common. Chatham (C.); Otford, Birling, Wye (M.). Found in moss at all seasons of the year. Overwinters in adult state in moss. 5, 6, 9, 10.
- Acalypta brunnea* (Germ.). Rare. Darenth Wood (D. and S.). In moss attached to base of tree trunks growing in woods. Overwinters in the nymph and adult state in moss. 8, 9.
- A. carinata* (Panz.). Not common. Otford (Bed.); East Malling (M.). Hibernates in moss in the adult form. 5, 8.
- A. platycheila* (Fieb.). Rare. One specimen on main road at Isle of Grain (M.). Usually occurs in moss at base of hawthorn trees; in rough fields. 4, 6.
- A. parvula* (Fall.). Common and generally distributed. Dover (H.); Deal (N.); Whitstable (But.); Bickley (J.); Doddington (Ch.); St. Margaret's Bay, New Hythe, East Malling (M.). Associated with moss. Hibernates in the adult state. 1-12. Macropterous form sometimes very common at East Malling (M.) in September.

- Dictyonota strichnocera* Fieb. Local. Dartford Brent (D. and S.); Blackheath (W.); Ryarsh, Wrotham Heath (M.). Associated with furze and broom. Occasionally hibernates on bushes in the adult state. 7, 8, 9.
- D. fuliginosa* Costa. Very local. Plumstead (W.); Maidstone (E.); Aylesford, Higham, Dungeness (M.). This species lives on old broom bushes. 7, 8, 9.
- D. tricornis* (Sch.). Local. Eltham, Plumstead (D. and S.); Deal, Dover (N.); Doddington (Ch.); Swalecliffe (But.); Otford, New Hythe, Higham, Aylesford, Charing, East Malling (M.). A ground-loving species, which does not appear to be associated with any particular species of plant. Usually taken singly. 6-9.
- Derephysia foliacea* (Fall.). Local. Blackheath (W.); Dover (N.); Herne Bay (But.); Doddington (Ch.); Bickley (J.); Cobham Park, Ryarsh, Aylesford, Ham Street, East Malling (M.). Associated with Ivy. Adults found in moss in December. 6, 7, 8, 9.
- Stephanitis rhododendri* Hor. Locally common. Sevenoaks, Tunbridge Wells, Maidstone, Allington, Ditton, Harbledown, near Canterbury (M.). Associated with certain kinds of Rhododendrons. Overwinters in the egg state. Eggs laid in mid-ribs of leaves. 7, 8.
- Tingis ampliata* (H.-S.). Common. Lee, Chislehurst (D. and S.); Chatham (C.); Kidbrook (W.); Cobham Park, Darenth Wood, Gravesend (Bed.); New Hythe, Higham, East Malling (M.). Feeds on thistle. Hibernates in the adult state in leaves, rotting vegetable matter, heaps of cut thistles and moss. 5, 6, 8, 10.
- T. reticulata* H.-S. Very local. Doddington (Ch.); East Malling (M.). Under dried up leaves of *Verbascum*, but not necessarily associated with this plant. Hibernates in adult state in moss, and vegetable matter. 4, 8, 9.
- T. cardui* (L.). Common and generally distributed. Deal, Dover (H.); Kidbrook (W.); Swalecliffe (But.); Otford, Ditton, Maidstone, Ham Street, Rochester, Sevenoaks, East Malling (M.). Associated with Spear Thistle and other species. Hibernates in the adult state at the roots of host plant, in moss, etc. 2-11.
- T. angustata* (H.-S.). Very rare in Kent. Barming (G. H. L. Dicker), sweeping.
- Catoplatus fabricii* (Stal). Very local. Tunbridge Wells (C.); Folkestone (R.); Margate, Deal (B.); Chatham (W.); Dartford (Bed.); Otford (M.). Associated with moss and Ox-eye Daisy. 5, 6, 8.
- Physatocheila dumetorum* (H.-S.). Local. Lee (D. and S.); Swalecliffe (But.); Darenth (C.); Ham Street, East Malling (M.). Beating lichen-covered hawthorns. Hibernates in adult state under bark, in cracks in palings, etc. 4, 5, 8, 9.
- Oncochila simplex* (H.-S.). Local. Bexley (Scott); Folkestone, Darenth, Chatham (C.); Church Woods, Blean (M.). Associated with Wood Spurge. 5, 8, 10.
- Monanthia humuli* (Fab.). Not common. Lee (D. and S.). Associated with *Myosotis*. 8, 9.
- Agramma laeta* (Fall.). Local. Deal, Tunbridge Wells (D. and S.); Herne Bay (S.); Sheppey, Whitstable (C.); Deal (Bed.); Pegwell Bay, Iwade, Sandwich Bay (M.). Found on low plants on salt marshes and also grassy situations inland. Hibernates in the adult state in moss, etc. 3, 4, 9.

REDUVIIDAE

- Empicoris vagabundus* (L.). Locally common. Lee (D. and S.); Blackheath (W.); Swalecliffe (But.); Ham Street, Tunbridge Wells, East Malling (M.). Beating trees and shrubs. Very partial to Hornbeam. Adult overwinters in dead leaves of hornbeam, etc. 7, 8, 9, 10, 12.
- E. culiciformis* (Degeer). Very local. East Malling (M.). Abundant in corn stack which had been standing for two years. The species hibernates in the adult state in corn stacks, thatch, etc. 2, 9, 11.
- Reduvius personatus* (L.). Local. Deal, Dover (H.); Maidstone, Boxley (E.); Gravesend (T.R.E.S.); Dymchurch (S. Wakely); Snodland, West Malling, West Farleigh, East Sutton, East Malling (M.). Hibernates in the nymphal state in lofts, barns, belfreys, stables. Attracted to light. 4, 6, 7, 8.
- Coranus subapterus* (Degeer). Not common in Kent. Deal (D. and S.). Tunbridge Wells (M.). Usually hibernates in the egg state. Occasionally adults overwinter in moss under heather, but this mode of hibernation is not usual. 8, 9, 10. Macropterous form occurs sparingly at Tunbridge Wells.
- Prostemma guttula* (Fab.). Very rare. One specimen taken by A. Kennedy in 1837. One was captured at Charlton, Kent, by E. W. Janson. This insect has not been captured in Kent in recent years.
- Nabis ferus* (L.). Common and generally distributed. Dover (H.); Kidbrook (W.); Deal (N.); Swalecliffe (But.); East Malling (M.). Hibernates in the adult state in leaves, at the roots of grass, in rubbish, etc. 1-11.
- N. flavomarginatus* Sch. Generally common and widely distributed. Deal, Herne Bay (S.); Swalecliffe Marsh, Whitstable (But.); Kidbrook (W.); Gillingham, Otford, Higham, East Malling (M.). I have never taken this species later in the year than the middle of September. 8, 9. The macropterous form occurs at East Malling and Higham (M.).
- N. rugosus* (L.). Common and generally distributed. Dover (H.); Lee, Lewisham, Plumstead (W.); Maidstone (E.); Ryarsh, Paddock Wood, East Malling (M.). 5, 6, 7, 8, 9.
- N. ericetorum* Sch. Common. Dover (H.); Plumstead (W.); Birling, Tunbridge Wells, Sevenoaks, Penshurst, Tonbridge, Seal, Hothfield Common, East Malling (M.). Associated with heaths, under *Erica* and *Calluna*. Hibernates in the adult state under heather. 4, 8, 9, 10.
- N. brevis* Sch. Rare. Deal (H. W. Daltry). This species I think is more or less a myth.
- N. mirmicoides* Cost. Generally common and widely distributed. Dover (H.); Lee (W.); Kingsdown (N.); Tunbridge Wells, Sevenoaks, Southfleet, Dartford, West Malling, Deal, Rochester, Marden, East Malling (M.). Hibernates in the adult stage in rubbish, moss, leaves, nettle beds, grass etc. Predacious; occasionally feeds upon the Fruit Tree Red Spider mite, and other fruit pests. Macropterous form occurs at East Malling (M.). 3, 4, 5, 8, 9, 10.
- N. apterus* (Fab.). Common. Darenth (Mar.); Bromley (S.); Dover (H.); Lee (W.); East Peckham (T.R.E.S.); Paddock Wood, Watlington, Marden, East Malling (M.). This species inhabits deciduous trees, and occurs commonly on hawthorn, oak and elm. It is also found in orchards, and is known to be predacious on the Fruit Tree Red Spider mite

(*Metatetranychus ulmi* Koch). It is also common in Kent hop gardens, and is partial to the Hop-Damson aphid and the Red Spider mite. Hibernates in egg state, the ova being laid deep in one-year-old wood. The macropterous form is not uncommon in the East Malling district (M.), also sometimes occurs in numbers in local hop gardens; also at East Peckham (T.R.E.S.).

- N. major* Costa. Locally common. Dover (H.); Lee, Lewisham, Kidbrook (W.); Deal (N.); Swalecliffe (But.); Sandwich Bay, Otford, Isle of Sheppey, New Hythe, East Malling (M.). This species is partial to sand dunes, but occurs inland in grassy situations, at the roots of plants, in rubbish and at hedge bottoms. Occasionally occurs in trees, but this is unusual. 7, 8, 9.
- N. boops* (Sch.). Rare. Deal (Bed.); East Malling (M.). Occurs sparingly on the Deal sand hills amongst Marram grass. At East Malling it is found amongst rough grass on waste ground. 8, 9.
- N. limbatus* Dahl. Common and generally distributed. Dover (H.); Kidbrook (W.); Deal (N.); Swalecliffe (But.); Sevenoaks, Tonbridge, Dartford, Tenterden, Canterbury, Rochester, East Malling (M.). Inhabits grass, rank herbage, etc. Hibernates in the egg state. 8, 9, 10.
- N. lineatus* Dahl. Not common. Herne Bay (S.); Cliffe, New Hythe, East Malling (M.). Inhabits very wet and marshy situations. At the roots of rushes and reed beds. 8, 9.

CIMICIDAE

- Cimex lectularius* L. Common in towns. Dover (H.); Greenwich (W.); Woolwich (Bed.); Sevenoaks, Rochester, Maidstone, Tonbridge, West Malling, East Malling (M.). In dwelling houses. 3, 6, 7, 8, 9, 10, 11.
- Oeciacus hirundinis* (Jenyns). Local. Brasted (Bed.). In Martin's nest. Hibernates in adult state. 2, 8.

ANTHOCORIDAE

- Temnostethus pusillus* (H.-S.). Not common. Darenth Wood, Tunbridge Wells (D. and S.); Swalecliffe (But.); Hayes Common (Bed.); East Malling (M.). Usually occurs on lichen-covered trees, and it is very partial to ash and fir trees. It is predacious on the Ash scale and Ash Psylla. Sometimes abundant on sloe. 7, 8, 9.
- T. gracilis* Horv. Rare. Lydd, East Malling (M.). Associated with lichen-covered ash and sloe. Predacious. 7, 8, 9. First recognized as British by Dr. W. J. Le Quesne, and it is provisionally referred to as *T. gracilis* Horv.
- Elatophilus nigricornis* (Zett.). Rare. East Malling (M.). Beating fir. Scotland appears to be the headquarters of this insect, but it is gradually extending its range to the southern counties. 7.
- Anthocoris confusus* Reut. Widely distributed. Darenth (C.); Blackheath, Lee, Lewisham (W.); East Malling (M.). Frequents trees during the spring, summer and autumn months. Also inhabits fruit trees where it feeds upon the Fruit Tree Red Spider mite, aphids and other pests. It is entirely predacious, and overwinters in the adult state. 2-11.
- A. nemoralis* (Fab.). Common and generally distributed. Dover (H.); Blackheath, Lee, Lewisham (W.); Watlingbury, Maidstone, Tonbridge, Southfleet, Tunbridge Wells, Faversham, East Malling (M.). Inhabits deciduous trees, shrubs and fruit trees. This species is predacious, and

feeds on the fruit aphids and the Fruit Tree Red Spider mite and other pests of fruit trees. It overwinters in the adult state. There are two generations a year. 1-12.

The variety *superbus* Westh. occurs at East Malling.

- A. sarothamni* (D. and S.). Local and not common. Lee (B.); Ham Street, Littlestone, Dungeness, East Malling (M.). Associated with broom, where it feeds upon aphids, Red Spider mites, etc. Hibernates in the adult state. 5, 6, 7, 8, 9.
- A. visci* Doug. Rare. Watlingbury (M.). Associated with mistletoe, in company with the capsid and *Psylla*, and has been observed preying upon the immature stages of the latter. 9.
- A. gallarum-ulmi* (Degeer). Locally common. Kidbrook (W.); St. Rade-gunds (N.); Snodland, Watlingbury, East Malling (M.). Found mainly on elm growing in hedgerows. It is a predacious species, and is partial to the aphids that infect elm. Hibernates in the adult state. 2, 4, 7, 8, 9.
- A. nemorum* (L.). Generally common and widely distributed. Dover (H.); Swalecliffe (But.); East Malling (M.). Species occurs in too many localities to record. This species occurs on very many varieties of trees and shrubs. It is predacious, and the immature stages feed on all stages of the Fruit Tree Red Spider mite. Adult occurs all the year round. 1-12.
- A. limbatus* Fieb. Very rare. Birling (M.). On sallow infested with aphids, probably feeding on the latter. 8, 9.
- Tetrphleps bicuspis* (H.-S.). Local. Darenth Wood (B.); Bostol Wood, Plumstead (W.); Canterbury, Newnham, East Malling (M.). Associated with conifers. Occurs commonly on larch at East Malling. Predacious. 7, 8.
- Acamnocoris alpinus* Reut. Local. Yalding, Southfleet, Ham Street, Tunbridge Wells, East Malling (M.). On fir and larch. Carnivorous. 5, 7, 8, 9, 10.
- A. pygmaeus* (Fall.). Locally common. Bostol Wood, Plumstead (W.); Eynsford, Yalding, East Malling (M.). Conifers. Predacious. 5, 7, 8, 9, 10.
- Orius niger* (Wolff). Common. Tunbridge Wells, Herne Bay (S.); Plumstead (W.); Gravesend Marshes (Bed.); Higham, Keston, Southfleet, Dungeness, East Malling (M.). Sweeping grass, bushes, etc. Predacious. Hibernates in adult stage. 5, 7, 8, 9.
- O. majusculus* (Reut.). Common and generally distributed. Herne Bay (S.); Deal (B.); Lewisham (W.); Swalecliffe (But.); East Malling (M.). Sweeping grass. Beating trees, shrubs and fruit trees. Predacious. Two generations each year. Hibernates in adult state. Feeds on all stages of the Fruit Tree Red Spider mite and fruit aphids. Summer eggs laid in tissue of undersides of leaves. 1-12.
- O. minutus* (L.). Common and generally distributed. Lee, Plumstead (D. and S.); Deal (H.); East Malling (M.). Sweeping mixed herbage and grass. Beating trees, etc. It is predacious upon all stages of the Fruit Tree Red Spider mite, more especially immature stages. There are two generations a year. Hibernates in the adult state. Eggs laid in leaf tissue. 1-12.
- O. laevigatus* (Fieb.). Not common. Gravesend, Higham, Faversham, Keston, Sevenoaks, East Malling (M.). Sweeping flowers on hedge banks,

- grass, etc. Also on trees. Predacious. Feeds readily upon the Fruit Tree Red Spider mite in captivity. 7, 8, 9, 10.
- O. vicinus* Ribaut. Rare. East Malling (M.). Found on cultivated raspberry. A predacious species which feeds on small aphids and red spiders. 7, 8, 9.
- Lyctocoris campestris* (Fab.). Locally common. Dover (H.); Kidbrook (W.); Swalecliffe (But.); New Romney, Ham Street, Sevenoaks, Southfleet, East Malling (M.). In flour mills, hay lofts, corn stacks, barns, and even under loose bark. Predacious. Mostly hibernates in the adult state. Nymphs sometimes overwinter or mature in March and April. 1-12.
- Xylocoris galactinus* (Fieb.). Locally common. Lewisham (W.); Swalecliffe (But.); Plumstead Marshes (Bed.); East Malling (M.). Localities too numerous to quote. Hot beds, manure heaps and stable straw. Also hay and corn stacks. Overwinters in the adult state. 1-12.
- X. formicetorum* (Boh.). Rare. Westerham (P. Harwood). In nests of Wood Ant. 6, 9.
- X. cursitans* (Fall.). Common. Cobham Park, Sevenoaks, Ham Street, Marden, Sittingbourne, East Malling (M.). This is a subcortical species which occurs under bark of oak, beech, elm, apple, elder, lime, etc. Hibernates in the adult state. Noted feeding on a species of thrips under bark of beech at Sevenoaks (M.). 1-12. The macropterous form occurs at Cobham Park and East Malling (M.).
- Brachysteles parvicornis* (Costa). Rare. East Malling (M.). At roots of grass in November.
- Cardiastethus fasciventris* (Garb.). Local. Isle of Sheppey (C.); Ryarsh, Newnham, Yalding, East Malling (M.). Fir trees and furze bushes. 7, 9, 10.
- Xylocoridea brevipennis* Reut. Rare. Mereworth, East Malling (G. H. L. Dicker). Under bark of larch and apple.
- Dufouriellus ater* (Duf.). Not common. Sittingbourne (C.); Ryarsh, Loose, Higham, Teston Corner, Ham Street, East Malling (M.). A subcortical species. Occurs under bark of oak, beech, apple, etc. Hibernates in adult state, and occasionally as a bright red nymph. 2, 5, 9, 10.
- Loricula pselaphiformis* Curtis. Local. Lee, Darenth (D. and S.); Bromley, Tunbridge Wells (S.); Ditton, Sevenoaks, Ham Street, Tunbridge Wells, East Malling (M.). Occurs on trunks of lichen-covered trees. Beech, oak, elm, lime, fir, apple, etc. Predacious on small insects such as mites, Collembola, Thrips, Thysanura, Psyllids, etc. Hibernates in the egg state. 6, 7.
- L. elegantula* (Baer.). Local. Tunbridge Wells (S.); Sevenoaks, Ham Street, Cobham Park, Paddock Wood, East Malling (M.). On trunks of lichen-covered trees. Oak, fir, ash, beech, apple, cherry, etc. Predacious on mites, Thrips, Psyllids, Thysanura, and even very small Lepidopterous larvae. Overwinters in the egg state. Eggs laid in the foreign growths on trunk, also in the bark. 6, 7, 8.
- Myrmedobia distinguenda* Reut. Rare. Swalecliffe (But.); Darenth Wood (Bed.); Tunbridge Wells (M.). Associated with lichen-covered fir, pine and larch trees. 8.
- M. tenella* (Zett.). Rare. Cobham Park (K. G. Blair). Fir.

MIRIDAE

Pithanus märkeli (H.-S.). Common. Eltham (D. and S.); Dover (H.); Lee (W.); Deal (N.); Doddington (C.); Swalecliffe (But.); Higham, Hawkhurst, Cliffe, Dungeness (M.). Sweeping long grass in dry situations, but by no means confined to such conditions, since it also occurs in salt marshes and in very damp situations. 7, 8.

Pantilius tunicatus (Fabr.). Common. Darenth Wood (D. and S.); Bromley (S.); Dover (H.); Abbey Wood (W.); Huntingfield (Ch.); Ryarsh, Tunbridge Wells, East Malling (M.). It lives and feeds on birch, hazel and cultivated nut. This species is also attracted to light. Probably two generations each year. Hibernation stage not known. 4, 5, 6, 9, 10.

Miridius quadrivirgatus (Costa). Local. Deal (D. and S.); Isle of Sheppey (C.); Dover (H.); Swalecliffe (But.); Cliffe (M.). Sweeping in grassy situations in dry places. Usually near the sea. 6, 7, 8.

Phytocoris tiliae (Fab.). Common. Dover (H.); Blackheath, Lee, Lewisham (W.); Darenth Wood, Tunbridge Wells, East Malling (M.). This species is predacious and occurs on a variety of trees. It is common in neglected orchards, where it feeds upon the Fruit Tree Red Spider mite, caterpillars of the Winter moth group and other pests. Hibernates in the egg state, which is laid in young growths. 8, 9, 10.

P. longipennis Flor. Local. Blackheath (D. and S.); Abbey Wood (W.); East Malling (M.). Occurs on oak, beech, hawthorn, apple, etc. 8.

P. populi (L.). Rare. Blackheath (D. and S.); Dover (H.); East Malling (M.). According to Butler this species occurs on the trunks of apple and other trees in gardens, but I have never met with it under such conditions in Kent. Ash and Oak. 9.

The var. *distinctus* D. and S. also occurs in Kent.

P. dimidiatus Kirs. Not common. Darenth Wood (D. and S.); Hither Green, Lee (W.); East Malling (M.). Occurs on oak, ash and other trees. Sometimes inhabits aphid infested plum trees. 6, 8, 9.

P. reuteri Saun. Common. Dartford Brent (D. and S.); Blackheath, Kidbrook (W.); Darenth Wood, Sevenoaks, Marden, East Malling (M.). Apple, pear, plum, hawthorn, ash, etc. Predacious on the Fruit Tree Red Spider mite, aphids and Winter moth larvae. Hibernates in the egg state. 7, 8, 9.

P. varipes Boh. Very common. Dover (H.); Folkestone (W.); Boxley (E.); Herne Bay (S.); Deal (Bed.); Aylesford, Sevenoaks, Ham Street, East Malling (M.). This is not an arboreal species, but occurs in grassy situations and amongst low plants. Predacious on Lepidopterous larvae. 8, 9, 10.

P. ulmi (L.). Common. Darenth (D. and S.); Dover (H.); Lee, Lewisham (W.); Herne Bay (S.); Ham Street, Tunbridge Wells, Seal, Eccles, East Malling (M.). Hawthorn, ash, elm, aspen, hornbeam, blackthorn, etc. This species is predacious upon all stages of the Fruit Tree Red Spider mite, fruit aphids, ash *Psylla*, scales, etc. Hibernates in the egg state. 7, 8, 9.

Megacoelum infusum (H.-S.). Local. Lewisham (D. and S.); Lee, Greenwich Park (W.); Bromley (S.); Darenth Wood (M.). Arboreal species chiefly associated with oaks. 8, 9.

- M. beckeri* (Fieb.). Not common in Kent. Tunbridge Wells (M.). Beating Scots pine. 8, 9.
- Adelphocoris seticornis* (Fab.). Rare. Chattenden (C.). This species was recorded by Champion at Chattenden, near Rochester. No recent records have been brought to my notice. 8.
- A. lineolatus* (Goeze). Common. Dover (H.); Lee (W.); Herne Bay (S.); Swalecliffe (But.); Huntingfield (Ch.); Darenth, Sevenoaks, East Malling (M.). Sweeping *Chenopodium*, low plants growing on waste ground. 7, 8, 9.
- Calocoris orchromelas* (Gmel.). Local. Lewisham, Bexley, Darenth Wood (D. and S.); Shooter's Hill (W.); Chattenden (Ch.); Tunbridge Wells (S.); East Malling (M.). Beating oak. Also occurs on other trees. 5.
- C. sexguttatus* (Fab.). Not common. Nurstead, Cobham Wood (T.R.E.S.); Ulcombe, Harvel, Birling (M.). Usually found in thickly growing nettle beds in wet situations, more frequently found on those growing in shade under trees. Hibernates in the egg state. The egg being laid in dead twigs and boughs. 6-8.
- C. fulvomaculatus* (Degeer). Common. Darenth (D. and S.); Dover (H.); Abbey Wood (W.); Cobham, Eccles, Tonbridge, Canterbury, Marden, Tenterden, Faversham, Key Street, Rainham, East Malling (M.). This species is associated with a variety of trees and bushes, and it is commonly found on soft fruits. This species is sometimes a pest in Kentish hop gardens. It hibernates in the egg state, the eggs being laid in the hop poles, in dead twigs, posts, etc. 5, 6, 7, 8.
- C. roseomaculatus* (De Geer). Local. Darenth, Folkestone (D. and S.); Kingsdown (H.); Huntingfield (Ch.). Sweeping flowers in dry, sunny situations. 6, 7, 8.
- C. norvegicus* (Gmel.). Common and generally distributed. Dover (H.); Lee, Lewisham (W.); Barming (E.); Herne Bay (S.); Swalecliffe (But.); East Malling (M.). Occurs on a very wide range of wild and cultivated plants. 6-10.
- Hadrodemus m-flavus* (Goeze). Very rare. Charing (Mar.). This appears to be the only record of this insect in this country.
- Miris striatus* (L.). Local and not common. Darenth Wood, Tunbridge Wells (D. and S.); Plumstead (W.); Chattenden Roughs (Ch.). Frequents oak and hawthorn. 5-7.
- Stenotus binotatus* (Fab.). Common. Bexley, Darenth (D. and S.); Dover (H.); Huntingfield (Ch.); Charing, Blean, East Malling (M.). By sweeping grass banks at roadsides, and on low plants growing on waste ground. 6-8.
- Dichrooscytus rufipennis* (Fall). Local. Dartford Heath (D. and S.); Sevenoaks, Tunbridge Wells (M.). This species is associated with scots pine and also birch. 6, 7, 8.
- Lygus pabulinus* (L.). Common and generally distributed. Tunbridge Wells (D. and S.); Dover (H.); Lee, Lewisham (W.); Doddington, Tolehurst (Ch.); East Malling (M.). Localities far too numerous to give in full. Very partial to nettle, soft fruits, weeds, etc. There are two generations each year, and the insect overwinters in the egg state. The ova are laid in shoots of currant, gooseberry, blackberry, and many other hosts. 5-10.

- L. viridis* (Fall.). Local. Darenth (D. and S.); Dover (H.); Blackheath (W.); East Malling (M.). Seems to be mostly associated with oak in Kent. Attracted mercury vapour light trap. 7, 8.
- L. contaminatus* (Fall.). Common. Darenth, Dartford (D. and S.); Dover (H.); Lewisham, West Wickham (W.); Sevenoaks (But.); Tunbridge Wells, East Malling (M.). In Kent it seems to live almost exclusively on birch, but odd specimens occur on oak. 6-8.
- L. spinolae* (Mey.-D.). Locally common. Eltham (D. and S.); Bromley (S.); Sevenoaks (But.); Dover (Hall.); East Peckham (T.R.E.S.); Harvel, Birling, Rainham, East Malling (M.). Lives and feeds on nettle and thistle. Another favourite host is the hop. 5-9.
- L. lucorum* (Mey.-D.). Local. Dover (H.); Sevenoaks, Tonbridge, East Malling (M.). Occurs on nettle, Hemp Agrimony, etc. 7, 8, 9.
- L. pratensis* (L.). Locally common in many parts of Kent. Westerham, Blean, Littlestone, Higham, East Malling (M.). Sweeping grassy situations in summer and autumn months. Attracted mercury vapour light trap. 7, 8, 9, 10. Hibernates in adult state in leaves, etc. All the old records have been disregarded because the *L. pratensis* complex includes at least two species.
- L. rugulipennis* Popp. Common and generally distributed. Localities too numerous to record in detail. East Malling (M.). This species occurs in association with grass and low plants, and is found everywhere. It overwinters in the adult state. It is injurious to chrysanthemums, and other herbaceous plants. 6, 7, 8, 9, 10.
- L. rubricatus* (Fall.). Not common. Bromley (C.); Dover (H.); Bromley (S.). Associated with Coniferous trees. Silver fir. 6.
- L. cervinus* (H.-S.). Local. Blackheath (W.); Swalecliffe (But.); Birling, East Malling (M.). Associated with apple, box, ivy, etc. The species also occurs on various kinds of trees, more especially hazel. 5, 9.
- L. viscicola* (Puton). Very local. Doddington (Ch.); Wateringbury, East Sutton (M.). Distribution restricted to areas where mistletoe grows, but it does not occur everywhere the plant is found. 8, 9.
- L. campestris* (L.). Locally common. Strood (D. and S.); Abbey Wood (W.); Swalecliffe (But.); Birling, Faversham, Littlestone, Allhallows, Eccles, Ryarsh, Charing, East Malling (M.). Sweeping grass and low plants in flower. Overwinters in the adult state. 3, 4, 6, 7, 8, 9, 10.
- L. kalmii* (L.). Locally common. Dover (H.); Deal (N.); Eccles, Faversham (M.). Sweeping grassy slopes and low plants in flower. Hibernates in the adult state. 3, 7, 8.
- Plesiocoris rugicollis* (Fall.). Common, but not as prevalent as formerly. Deal (S); Plumstead (W.); East Malling (M.). Localities too numerous to outline in detail. Attached to *Salix* species and apple. First recorded as a serious apple pest in Kent in 1923, at Swanley. Remained a major pest until 1948, when the advent of DDT completely eradicated the pest from commercial orchards. One generation a year. Eggs embedded in the young growths of apple and *Salix* in July. Immature forms hatch out in April. 6, 7.

- Camptozygum pinastris* (Fall.). Local. Bromley (S.); Bostal Wood, Plumstead (W.); Tunbridge Wells, Sevenoaks (M.). Beating scots pine, fir, etc. 7, 8.
- Poeciloscytus unifasciatus* (Fab.). Very local. Lee, Folkestone (D. and S.); Dover (H.). Associated with various species of *Galium*. 7, 8.
- Systratiotus nigrita* (Fall.). Local. Deal (B.); Dover (H.); Darenth (Ch.); East Malling (M.). Found in association with *Galium* spp. This species was found on one occasion in February, thus it seems likely that it hibernates in the adult state. 2, 7, 8.
- Charagochilus gyllenhalii* (Fall.). Locally common. Dover (H.); Kingsdown (N.); Birling, Eccles, East Malling (M.). Mainly associated with *Galium* spp. Adult overwinters in leaves, etc. 6, 7, 8.
- Liocoris tripustulatus* (Fab.). Common and generally distributed. Dover (H.); Kidbrook, Lee, Lewisham (W.); Doddington (Ch.); Birling, Higham, Ham Street, Teston, Watringbury, East Malling (M.). Associated with nettle, particularly nettle beds. Hibernates in the adult state. 5, 6, 7, 8, 9.
- Camptobrochis lutescens* (Schill.). Common and generally distributed. Bromley (S.); Dover (H.); Blackheath, Plumstead, Lee, West Wickham (W.); Teston, Watringbury, Blue Bell Hill, Higham, Ham Street, Sandling, Birling, East Malling (M.). Associated with trees and shrubs, and is very partial to oak, apple and hazel. This species is partly predacious but also feeds on the leaves of various trees. It is predacious on the Fruit Tree Red Spider mite and fruit aphids. It hibernates in the adult state. The eggs are laid deep in the young woody growths of apple, hazel, etc., in the summer months. 1-12.
- Deraeocoris ruber* (L.). Common. Dover (H.); Lee, Lewisham (W.); Maidstone (E.); Darenth Wood (Bed.); Ham Street, Eccles, Westerham, East Malling (M.). Associated with nettle and many kinds of low plants, and also found on various trees, including fruit trees and bushes. Hibernates in the egg state, the ova being laid deep in the young growths. Nymphs hatch in May and June. This species is entirely predacious, and is more partial to larger insects than the mites and aphids. It must be regarded as being a true cannibal. One adult found on nettle at East Malling in April. 4, 6, 7, 8, 9.
- D. scutellaris* (Fab.). Rare. Dartford Heath (D. and S.). I have not been able to find this insect in Kent up to the present time. Said to be associated with *Calluna*, but much more likely to be found on Hazel, where like *D. ruber* it is predacious on the insects found on nut. 6, 7, 8.
- Rhopalotomus ater* (L.). Common. Dover (H.); Lee, Lewisham, Kidbrook (W.); Barming, Harrietsham (E.); Doddington (Ch.); Blean, Isle of Grain, Ham Street, Eccles, East Malling (M.). Found in grassy situations, nettle beds, sand dunes, chalky districts all in salt marshes. Sometimes overwinters in the adult state, sometimes in the immature form. 6, 7.
- Alloeotomus gothicus* Fall. Rare. Tunbridge Wells (M.). Associated with scots pine. Not uncommon on trees about twenty years old. Not found on very old trees, or very young ones. 8.
- Capsodes flavomaculatus* (Don.). Rare. Abbey Wood, Plumstead (W.); Half Way Street (D. and S.); Blean (Ch.; H. W. Daltry); (M.). By sweeping

damp grassy areas in woods. Flowery clearings in woods, etc. On flowers of Wood Spurge. Associated with Cow-wheat. 7, 8.

C. gothicus (L.). Rare. Birch wood (Mar.). Searching roots of coarse grass and rank weeds and herbage. Also by sweeping. Host plant: Birdsfoot-trefoil. 7, 8.

Acetropis gimmerthalii (Flor). Locally common. Birch wood (Power); Deal (Dale); Kidbrook (W.); Blean (M.). Sweeping grass in dry and wet places. Also sweeping in woods. 6, 7.

Stenodema laevigatum (L.). Common and generally distributed. East Malling (M.). Localities too numerous to catalogue. Sweeping in grassy situations. Hibernates in the adult state. Both green and brown forms common in the East Malling district. 2-9.

S. calcaratum (Fall.). Common and generally distributed. Lewisham, Darenth (D. and S.); Folkestone, Deal (W.); Higham, East Malling (M.). Sweeping long grass. 1-12.

Notostira erratica (L.). Generally distributed. Dover (H.); Kidbrook, Lee, Lewisham (W.); Littlestone (E.); Doddington (Ch.); Deal, Swalecliffe (But.); Higham, East Malling (M.). Sweeping grass in both very dry and damp situations. Also salt marshes. Hibernates in the adult state. 6-9.

Megaloceroea linearis (Fuess.). Not common. Lee, Bexley, Dartford (D. and S.); Dover (H.); Folkestone (W.). Sweeping in grassy places, verges, rough fields, etc. 7, 8.

Trigonotylus ruficornis (Geoff.). Common. Dartford, Charlton (D. and S.); Dover (H.); Lee, Kidbrook (W.); Doddington (Ch.); Swalecliffe (But.); Ham Street, Eccles, Tunbridge Wells, Bedgebury, Cliffe, East Malling (M.). Sweeping in grassy situations. 6-10.

T. psammaecolor Reut. Rare. Sandwich Bay (H. W. Daltry).

Teratocoris antennatus (Boh.). Very local. Hampton, near Herne Bay (But.); Isle of Sheppey (C.); Cliffe (M.). At the roots of rushes, *Scirpus* sp. All the colour forms from green, through pink, to nearly black, are found in Kent. 9, 10.

T. saundersi D. and S. Local and not common. Whitstable (But.); Deal (S.); Dungeness (M.). This species is found in damp situations among rushes, etc. 8, 9.

Leptopterna dolobrata (L.). Common. Lee, Eltham (D. and S.); Kidbrook, Shooter's Hill (W.); Huntingfield (Ch.); Charing, Blean, Sevenoaks, Gravesend (M.). This species is found by sweeping in grassy situations, meadows, hedge banks, flowers, etc. 6-8. The Macropterous form occurs commonly in Kent.

L. ferrugata (Fall.). Common. Eltham (D. and S.); Dover (H.); Folkestone, Kidbrook (W.); Isle of Grain, Charing, East Malling (M.). Sweeping grassy situations, meadows, hillsides, etc. 6, 7, 8. The macropterous form occurs in Kent.

Bothynotus pilosus (Boh.). Rare. Blean (But.). Associated with conifers. In moss growing under trees in July (Bed.).

Monalocoris flicis (L.). Common and generally distributed. Plumstead (W.);

- Bromley (S.); Tolehurst (Ch.); Tunbridge Wells, East Malling, Birling (M.). Sweeping bracken, but by no means confined to this plant. Some hibernate in the adult state. 5, 6, 7, 8, 9, 10.
- Bryocoris pteridis* (Fall.). Not common. Tunbridge Wells (D. and S.); East Malling (in my garden at "Acarina") (M.). Sweeping cultivated ferns. 7, 8. Macropterous form not recorded in Kent.
- Macrolophus nubilus* (H.-S.). Not common. Lewisham (D. and S.); Tunbridge Wells (S.); West Wickham (W.). Associated with bramble, juniper, grass growing under fir trees, etc. 7.
- Dicyphus epilobii* Reut. Common. Folkestone, Lewisham (D. and S.); Dover (H.); Kidbrook (W.); Sandwich (N.); Blean, East Malling (M.). Found exclusively on *Epilobium hirsutum* L. Great Hairy Willow-herb. 6-10.
- D. errans* (Wolff). Common. Lewisham, Eltham, Darenth (D. and S.); Abbey Wood (W.); East Malling (M.). Occurs on nettle and Woundwort. 6-8.
- D. stachydis* Reut. Common. Dover (H.); Doddington (Ch.); Sevenoaks, East Malling (M.). Mainly confined to Woundwort. Hibernates in the adult state. 4, 5, 6, 7.
- D. pallidicornis* (Fieb.). Common. Plumstead, Darenth, Tunbridge Wells (D. and S.); Abbey Wood (W.); Marden, East Malling (M.). This insect feeds on *Digitalis*. 6-8. The macropterous and brachypterous forms both occur in Kent.
- D. globulifer* (Fall.). Locally common. Lewisham, Eltham, Bexley (D. and S.); Abbey Wood (W.); Doddington (Ch.); East Peckham (T.R.E.S.). Associated with White Campion. 9.
- D. annulatus* (Wolff). Local. Deal, Folkestone (D. and S.); Herne Bay (S.); Rochester, Littlestone (M.). Feeds on *Ononis*. 8, 9.
- Camptoneura virgula* (H.-S.). Common. West Wickham, Bromley, Bexley (D. and S.); Dover (H.); Blackheath, Lee (W.); Doddington (Ch.); Tunbridge Wells, Maidstone, Sevenoaks, Isle of Sheppey, Harvel, East Malling (M.). Found on many host plants, including apple and other fruit trees. It is predacious most of the time, but will take plant food on occasions. Overwinters in the egg state. The nymphs hatch out from May until August. 7-10.
- Hallodapus rufescens* (Burm.). Rare. Plumstead (D. and S.); Swalecliffe Marsh (But.). At roots of heather. 7. Dr. Power took the macropterous form on Plumstead Common many years ago.
- H. montandoni* (Reut.). Very rare. Swalecliffe (But.). On a piece of waste land near the sea. 8.
- Systellonotus triguttatus* (L.). Very local. Dover (H.); Otford, Eccles (M.). Running rapidly on bare ground and amongst sparse vegetation. In company with the ant *Lasius niger*. 7, 8.
- Pilophorus cinnamopterus* (Kirs.). Not common. Blean (But.); Plumstead (D. and S.); Tunbridge Wells (M.). Beating firs and Scots pine. 8, 9, 10.
- P. clavatus* (L.). Not common. Lee (D. and S.). Beating oak, pine and aspen. 8, 9.

- P. perplexus* D. and S. Locally common. Lewisham (D. and S.); Bromley (S.); Deal (H.); Blackheath (W.); Swalecliffe (But.); East Peckham (T.R.E.S.); Watlington, West Malling, Paddock Wood, Blean, Darenth Wood, East Malling (M.). This species is associated with *L. niger*, and occurs on many kinds of trees, including fruit trees. A predacious species which feeds on aphids, including the Woolly aphid of apple. It also feeds on the Fruit Tree Red Spider mite. The egg is deeply embedded in the young growths of various trees. The winter is spent in the egg state. 7-9.
- Cyllecoris histrionicus* (L.). Local. Darenth Wood (D. and S.); Dover (H.); Abbey Wood (W.); East Malling (M.). Beating oak. 6, 7.
- C. flavoquadrifasciatus* (Degeer). Locally common. Lewisham (D. and S.); Darenth (C.); Shooter's Hill Wood (W.); Doddington (Ch.); Cobham, Blean, Cuxton, East Malling (M.). Beating oak. 5, 6, 7.
- Blepharidopterus angulatus* (Fall.). Common and generally distributed. Lewisham (D. and S.); Dover (H.); Blackheath, Lee (W.); Doddington (Ch.); East Malling (M.). Localities too numerous to record. Occurs on a great variety of trees, shrubs, and low plants. It is predacious on the Fruit Tree Red Spider mite, aphids, small caterpillars, etc. It lays its eggs deep into the young growths of apple, etc. The species overwinters in the egg state. 7, 8, 9, 10.
- Globiceps cruciatus* Reut. Rare. Dartford Brent (D. and S.); Deal (S.); Searching grass, low plants on sand dunes, roots of plants on cliffs, etc. 7, 8.
- G. flavomaculatus* (Fab.). Very local. Eltham (D. and S.); Dover (H.); Doddington (Ch.); East Peckham (T.R.E.S.); Charing (M.). At roots of grass, under broom bushes, and amongst low plants. 7, 8.
- Mecomma ambulans* (Fall.). Local. Plumstead (D. and S.); Abbey Wood, Lee, Grove Park (W.); Westerham, Birling (M.). Damp situations. On long grass and nettle in woods. 7-9.
- Cyrtorhinus caricis* (Fall.). Local. Tunbridge Wells (But.). Searching roots of rushes. 8, 9.
- C. geminus* (Flor.). Rare. East Malling (M.). At roots of rushes. 9.
- C. pygmaeus* (Zett.). Rare. Deal (But.); Sandwich (B.); Dungeness, Cliffe Marshes (M.). At the roots of rushes. 8.
- C. flaveolus* (Reut.). Rare. Whitstable (But.); Dungeness (M.). At the roots of rushes in damp places. Host plant: Tufted hair-grass. 7, 8, 9.
- Orthotylus bilineatus* (Fall.). Rare. Plumstead, Shooter's Hill (W.). Beating Aspen.
- O. viridinervis* (Kirs.). Very Local. Blackheath (W.). Oak.
- O. marginalis* Reut. Common. Lewisham (D. and S.); Lee (W.); Tolehurst (W.); Gravesend (T.R.E.S.); Dungeness, East Malling (M.). Associated with species of willow and apple. Also nettle and low plants. Partly predacious. It feeds on all stages of the Fruit Tree Red Spider mite, aphids, and other small insects. The egg is laid in growths of young wood, e.g. one-year apple shoots. Oviposition in late summer. Nymphs hatch late April and May. 6, 7, 8.

- O. flavinervis* (Kirs.). Local. Lewisham (D. and S.); Bromley (S.); Forest Hill (C.); Catford (W.); Ham Street (M.). Alders and Willows.
- O. nassatus* (Fab.). Local. Eltham (D. and S.); Bromley (S.); Blackheath (W.); East Peckham, Cobham, Gravesend (T.R.E.S.). Oak, lime. 8.
- O. ochrotrichus* (Fieb.). Locally common. East Peckham (T.R.E.S.); Ulcombe, Cliffe, Leybourne, Birling, Hollyhill (M.). Elm, hazel, nettle, apple. Predacious on the Fruit Tree Red Spider mite, etc. Overwinters in egg state. 7, 8.
- O. prasinus* (Fall.). Local. Kidbrook (W.); Harvel, Gravesend, Bredhurst (T.R.E.S.); Cliffe, Tunbridge Wells, Darenth Wood, East Malling (M.). Birch, oak, willow, hazel, lime. 8.
- O. ericetorum* (Fall.). Locally common. Plumstead, West Wickham (W.); Tolehurst (Ch.); Seal, Hothfield, East Malling (M.). Heather. 8, 9.
- O. adenocarpi* (Perr.). Common. Plumstead (B.); Gravesend (T.R.E.S.); Aylesford, Darenth Wood, East Malling (M.). Broom. 7, 8.
- O. virescens* (D. and S.). Common. Plumstead (W.); Gravesend (T.R.E.S.); Darenth Wood, Ryarsh, Aylesford, East Malling (M.). Broom. 7, 8.
- O. concolor* (Kirs.). Rare. Gravesend (T.R.E.S.). Broom. 8.
- O. flavosparsus* (C. Sahl.). Common. Lee (D. and S.); Pegwell Bay, Whitstable, Swalecliffe (But.); Kidbrook, Lewisham (W.); East Malling (M.). Fat hen. 7, 8, 9.
- O. rubidus* (Puton). Local. Pegwell Bay, Whitstable, Swalecliffe (But.); Herne Bay (S.). Glasswort. 8.
- O. moncreaffi* (D. and S.). Local. Pegwell Bay, Whitstable, Swalecliffe (But.); Herne Bay (S.); Higham, Gillingham, Cliffe, Faversham (M.). Sea Purslane. Glasswort. 7, 8, 9.
- O. diaphanus* (Kirs.). Local. Lee, Eltham (D. and S.); Bromley (S.); Lewisham (W.); Shorne, East Peckham (T.R.E.S.); Tunbridge Wells, East Malling (M.). Willow, ash. 7, 8.
- Pachylops bicolor* (D. and S.). Locally common. Blackheath, Charlton (D. and S.); East Malling (M.). Beating furze and broom. 7, 8, 9.
- Pseudoloxops coccineus* (Mey.-D.). Very local. Abbey Wood (W.); Sevenoaks (But.); East Malling (M.). Beating ash. 8, 9.
- Capsus meriopterus* (Scop.). Common. Eltham, Bexley, Darenth (D. and S.); Dover (H.); Kidbrook (W.); Huntingfield (Ch.); Ulcombe, East Malling (M.). Associated with trees, shrubs and low plants. This species is predacious on the Fruit Tree Red Spider mite, aphids, etc. It also feeds on the foliage and fruit of apple. This Mirid overwinters in the egg state, the ova being laid deep in the young growths in the summer. Nymphs emerge from May onwards. 7, 8, 9, 10.
- Heterocordylus genistae* (Scop.). Very local. Lodge Hill, near Upnor (M.). Beating broom. This species is predacious on the aphids associated with broom. This species is usually common when found. 6-8.
- H. leptocerus* (Kirs.). Common. Dartford Heath, Birch Wood (D. and S.); Plumstead (W.); Dungeness, East Malling (M.). Associated with broom. 5, 6, 7.

- Malacocoris chlorizans* (Panz.). Locally common. Bexley (D. and S.); Lee, Lewisham (W.); East Malling (M.). Associated with many kinds of trees and shrubs. The species is both predacious and phytophagous in habits. It feeds upon the Fruit Tree Red Spider mite, aphids, etc. The egg is laid on the surface of the one-year wood, and is not embedded in the shoot. It overwinters in the egg state. The nymphs start hatching in June. 7, 8, 9.
- Orthocephalus saltator* (Hahn). Common. Eltham, Folkestone (D. and S.); Brockley (W.); Deal (N.); Doddington (Ch.); Darenth, Gravesend, Charing, Swalecliffe, Allhallows, East Malling (M.). Sweeping long grass, *Ononis*, etc. 7, 8.
- Pachytomella parallela* (Mey.-D.). Very rare. Birling (M.). Sweeping nettles and Dog's Mercury in damp and shady situation in ash wood. Usually associated with grassy banks. 7, 8.
- Halticus apterus* (L.). Not common. Darenth (D. and S.); Herne Bay (S.). Searching roots of *Galium* in situations where vegetation is sparse.
- H. saltator* (Geoff.). Rare. East Malling (M.). Sweeping long grass. 7.
- H. luteicollis* (Panz.). Not common. Strood (D. and S.); Bromley (S.); Ham Street (M.). Sweeping grass under trees.
- Lopus decolor* (Fall.). Local. Eltham, Dartford Brent (D. and S.); Tunbridge Wells, Deal (But.); Dover (H.); Huntingfield (Ch.); Ham Street, Bedgebury, Dungeness, Sevenoaks (M.). Sweeping in grass fields and grassy situations. 7, 8.
- Oncotylus viridiflavus* (Goeze). Locally common. Hurst Wood, Tunbridge Wells (D. and S.); Sevenoaks (But.); East Peckham (T.R.E.S.); Otford, Eccles, Cuxton, East Malling (M.). On flowers of Knapweed. 8.
- Conostethus salinus* J. Sahl. Not common. Gravesend (Power). Salt marshes and sweeping grass in marshy situations. 6.
- C. roseus* (Fall.). Locally common. Eltham (D. and S.); Ham Street, Swalecliffe (M.). Sweeping grass in dry places. 7, 8.
- Hoplomachus thunbergii* (Fall.). Very local. Birch Wood (Power); Darenth Wood (B.); Boxley Hills (Mar.). Associated with *Hieracium pilosella* L. 7, 8.
- Tinicephalus hortulanus* (Mey.-D.). Not common. Darenth Wood (S.). Associated with *Ononis*. 7.
- Megalocoleus pilosus* (Sch.). Local. Gravesend, East Peckham (T.R.E.S.); Burham, Marden, Yalding (M.). Sweeping grass and flowers in field just above chalk pit. Tansy. 6, 7.
- M. molliculus* (Fall.). Locally common. Folkestone, Lee (D. and S.); Dover (H.); Swalecliffe (But.); Faversham, Cuxton (M.). Sweeping Yarrow. 7, 8.
- Amblytylus brevicollis* Fieb. Local. Shooter's Hill (W.); Aylesford, Allhallows, Charing (M.). Sweeping long grass. Also on sand dunes. 6, 7, 8.
- A. affinis* Fieb. Locally common. Eltham (D. and S.); Tunbridge Wells (S.); Lee (B.); Dover (N.); Doddington (Ch.); Burham, Charing, Cuxton (M.). Sweeping grass in dry places. Associated with Yarrow. 7, 8.

- Macrotylus solitarius* (Mey.-D.). Local, but not common. Gravesend (T.R.E.S.); Birling, Harvel, East Malling (M.). On flowers of Woundwort. Black Horehound. 6, 7, 8.
- M. paykulli* (Fall.). Local. Folkestone (D. and S.); Dover (H.); Lodge Hill, Dungeness, Upnor; Deal, Sevenoaks, East Malling (M.). Under plants of Restharrow. 6, 7, 8.
- Harporocera thoracica* (Fall.). Common. Lewisham, Eltham, Bexley (D. and S.); Grove Park, Lee (W.); Bromley (S.); Doddington (Ch.); Blean, Darenth Wood, Ham Street, Sevenoaks, East Malling (M.). Beating oak and hawthorn. 5.
- Orthonotus rufifrons* (Fall.). Very local. Blackheath, Tunbridge Wells (D. and S.); Abbey Wood (W.); Deal (N.); Doddington (Ch.); Birling, Charing, Harvel (M.). Associated with nettle, especially plants growing in damp situations, under trees. 8.
- Brachyarthrum limitatum* Fieb. Rare. Ham Street (M.). Sweeping and beating Aspen. 6, 8.
- Phylus palliceps* Fieb. Locally common. Darenth Wood (D. and S.); Shooter's Hill (W.); Bromley (S.); Doddington (Ch.); Blean, Ham Street, Tunbridge Wells, Birling, East Malling (M.). Beating oak. 6, 7, 8.
- P. melanocephalus* (L.). Local. Darenth Wood (D. and S.); Shooter's Hill (W.); Dover (H.); Bromley, Tunbridge Wells (S.); Tunbridge Wells, East Malling (M.). Beating oak. 6, 7.
- P. coryli* (L.). Local. Darenth Wood (D. and S.); Dover (H.); Shooter's Hill (W.); Tunbridge Wells (S.); Blean, Sevenoaks, East Malling (M.). Beating hazel. 6, 7. The variety *P. coryli* var. *avellanae* Mey. occurs at East Malling and other parts of Kent.
- Plesiodema pintellum* (Zett.). Rare. Tunbridge Wells (M.). Beating Scotch fir. 5-8.
- Psallus ambiguus* (Fall.). Common. Eltham (D. and S.); Tunbridge Wells (S.); Bostol Wood, Plumstead (W.); Ham Street, Blean, Sevenoaks, East Malling (M.). Arboreal. Associated with apple and many other hosts. The eggs are laid in young wood of apple, etc., from mid-May until the end of June. Hibernates in egg state. Only one generation each year. Partially predacious. Feeds on all stages of the Fruit Tree Red Spider mite, aphids and small insects. 5, 6.
- P. betuleti* (Fall.). Local. Darenth Wood (D. and S.); Shooter's Hill, West Wickham (W.); East Malling (M.). Associated with birch. 5, 6, 7.
- P. obscurellus* (Fall.). Very local. Dartford Heath (D. and S.); Bostol Wood, West Wickham Wood (W.); Bromley (S.); Tunbridge Wells (M.). Beating Scotch fir. 8.
- P. variabilis* (Fall.). Locally common. Darenth Wood (D. and S.); Shooter's Hill, West Wickham (W.); Tunbridge Wells (S.); Blean, Ham Street (M.). Apple, oak, birch, willow. 5, 6, 7. The var. *simillimus* D. and S. occurs in Kent.
- P. quercus* (Kirs.). Not common. Darenth (D. and S.); Bromley (S.); Shooter's Hill, West Wickham (W.); East Malling (M.). Beating oak. 5.

- P. lepidus* Fieb. Not common. Dartford (D. and S.); Abbey Wood (W.); Bromley (S.); East Malling (M.). Associated with ash. 6, 7.
- P. alnicola* D. and S. Rare. Catford (W.). Alder. 8.
- P. falleni* Reut. Local. Lewisham (W.); Ham Street, Tunbridge Wells, East Malling (M.). Beating birch. 5, 6, 7, 8.
- P. varians* (H.-S.). Local. Dover (H.); Shooter's Hill (W.); Bromley, Tunbridge Wells (S.); East Malling (M.). Oak. 6.
- P. diminutus* (Kirs.). Not common. Tunbridge Wells (M.). Beating oak. 6. 7. 8. 9.
- P. albicinctus* (Kirs.). Very rare. West Wickham (Chaney). This record is doubtful, and it is not included in Butler's work. Oak, beech and sallow on the Continent. 7, 8.
- P. roseus* (Fab.). Local. Deal, Lewisham (D. and S.); Folkestone (W.); Westerham (M.). Sallow and hazel. 8, 9.
- P. salicellus* (Mey.-D.). Local. Wickham, Darenth, Tunbridge Wells (D. and S.); Lee (W.); Tolehurst (Ch.); Ham Street (M.).
- Atractotomus mali* (Mey.-D.). Locally common. Catford (W.); East Malling (M.). Localities too numerous to record. Associated with trees and shrubs, and frequently occurs on apple and hawthorn. This species is both predacious and plant feeding. It preys upon the Fruit Tree Red Spider mite, aphids, small insects, and the Woolly Aphid. It is also cannibalistic. The egg is laid deep in the young wood. It overwinters in the egg state. 6, 7.
- A. magnicornis* (Fall.). Very local. West Wickham, Bromley (S.); Plumstead (W.). Beating conifers, especially spruce. The species is predacious upon aphids and Psocids, etc. 8.
- Plagiognathus chrysanthemi* (Wolff.). Common and generally distributed in Kent. Aylesford, Eccles, Allhallows, East Malling (M.). Sweeping plants and low herbage. 6, 7, 8.
- P. arbustorum* (Fab.). Common and generally distributed. Crockenhill, Eccles, East Malling (M.). Sweeping herbage and low plants. This species is predacious and phytophagous. It feeds on the Fruit Tree Red Spider mite, etc. Oviposition takes place in the young apple wood, and it hibernates in the egg state. 6-9.
- P. albipennis* (Fall.). Locally common. Isle of Sheppey (C.); Swalecliffe (But.); Deal (B.); Eltham, Lee (Bignell); Faversham, Cliffe, Higham, Crockenhill, Eccles, East Malling (M.). Associated with Mugwort. 7, 8, 9.
- Chlamydatus pullus* (Reut.). Local. Deal (D. and S.); Brockley (W.); Darenth Wood, Blean, Tunbridge Wells, Ditton, East Malling (M.). On the ground amongst low plants, especially in situations where the vegetation is sparse. 7, 8, 9.
- C. saltitans* (Fall.). Very local. Deal (N.); Gravesend (T.R.E.S.); Darenth Wood, East Malling (M.). Dry, sandy situations, at the roots of plants. 6-9.
- Microsynamma bohemani* (Fall.). Very rare. Deal (D. and S.); Sallows, 7, 8 (Butler). The variety: var. *scotti* Fieb. also occurs in Kent (But.).

Campylomma verbasci (Mey.-D.). Local. Gravesend (T.R.E.S.); East Malling (M.). Arboreal, also associated with plants such as Hollyhock, Mullein, and potato. Common on apple and oak in Kent and Essex. There are two generations a year. It is both predacious and phytophagus. The Fruit Tree Red Spider, aphids, etc., are readily eaten by the adult and immature stages. This species hibernates in the egg state. First generation 6-8, second generation 8-10.

Sthenarus roseri (H.-S.). Local. Bromley (S.); Lewisham (W.). Sallows. 6-8.

S. rotermundi (Sch.). Local. Blackheath (D. and S.); Herne Bay (S.); Isle of Grain, Littlestone (M.). White poplar. 6, 7, 8.

Asciodema obsoletum (Fieb.). Local. Blackheath (D. and S.); East Malling (M.). Broom and furze. 7, 8.

CRYPTOSTEMMIDAE

Ceratocombus coleoptratus (Zett.). Very local. Bexley (C.); Pegwell Bay, Westerham (M.). Found in moss. 8, 9, 10. Probably hibernates in the adult state in moss.

HYDROMETRIDAE

Hydrometra stagnorum (L.). Common. Mereworth, New Hythe, Wateringbury, Aylesford, East Malling (M.). On ponds and running water. Also edges of rivers. 4, 5, 6, 7, 8, 9.

Gerris rufoscutellatus Latr. Very rare. Gravesend (T.R.E.S.); East Malling (G. H. L. Dicker). On ponds and running water. 9.

G. paludum Fab. Local. Eltham (S.); Tonbridge, East Malling (M.). Rivers and streams. 6, 10.

G. najas (Degeer). Common. Catford (W.); near East Peckham (T.R.E.S.); Charing, Isle of Sheppey, Marden, Sevenoaks, Tonbridge, East Malling (M.). Running water, rivers, etc. 4-10. The macropterous form taken at Charing Heath (M.).

G. thoracicus Schum. Common. Dover (H.); Plumstead (W.); Sandwich (N.); Ham Street, Deal, Isle of Sheppey, Higham, East Malling (M.). On ponds and streams. 3, 4, 5, 9.

G. gibbifer Schum. Local. Lee, Catford (W.). Ponds, ditches and rivers. 4, 5, 8.

G. lacustris (L.). Common. Lee, Catford (W.); Swalecliffe (But.); Mereworth, Wateringbury, Ham Street, Isle of Sheppey, East Malling (M.). Ponds and ditches. Adults found all the year round. Both macropterous and brachypterous forms found in Kent (M.).

G. odontogaster (Zett.). Local. Lee (W.); Folkestone (N.); Bearsted, Higham (M.). Ponds. 3-9.

G. argentatus Schum. Local. Catford (W.); Higham, Bearsted, Isle of Sheppey (M.). Ponds. 9, 10, 11.

VELIIDAE

Microvelia reticulata (Burm.). Local. Plumstead Marshes (D. and S.); Grove Park, Lee (W.); Bearsted, Langley, Higham, East Malling (M.). Ponds, ditches and lakes. 4, 6, 7, 8, 9.

- Velia caprai* Tam. Common. Dover (H.); Lee, Catford (W.); Allington (E.); East Malling (M.). Generally on running water, but occasionally on ponds. 3-9.
- Hebrus pusillus* (Fall.). Local. Plumstead Marshes (D. and S.); Higham (M.). Associated with Duckweed and sphagnum. Wet and damp situations. 8, 9, 10.
- H. ruficeps* (Thom.). Rare. Higham, Hothfield (M.). In very wet sphagnum moss. The adult occurs all the year round.

SALDIDAE

- Chiloxanthus pilosus* (Fall.). Local and not common. Sandwich Bay (Curtis); Pegwell Bay (S.); Margate (B.); Isle of Sheppey (C.). This species is associated with salt marshes and occurs on the sea coast. 8.
- Halosalda lateralis* (Fall.). Local. Deal (D. and S.); Isle of Sheppey, Whitstable (C.); Margate (B.); Pegwell Bay (S.); Seasalter (M.). Mud flats and salt marshes. 8, 9.
- Salda littoralis* (L.). Not common. Deal, Sheerness (D. and S.); Whitstable (But.); Isle of Sheppey (Bed.); Oare Marshes, New Hythe, Higham, Faversham (M.). Found at the edges of ponds and also salt marshes. 6, 7, 8. The macropterous form taken at Oare Marshes (M.).
- S. orthochila* (Fieb.). Local. Tunbridge Wells (S.); New Hythe, Cliffe, Charing, Aylesford, East Malling (M.). Usually found in dry, sandy situations. Lawns, cart tracks in woods. Under Self-heal. 5, 6, 7, 8.
- S. saltatoria* (L.). Common. Lee (W.); Deal (N.); New Hythe, Isle of Sheppey, Detling, Hothfield, Aylesford, East Malling (M.). Damp situations, edges of ponds, lakes, etc. 4-9. The variety *conjuncta* Westh. occurs at Deal and East Malling (M.). 5, 9.
- S. pilosella* (Thom.). Locally common. Gravesend, Margate (B.); Deal (N.); Whitstable (But.); Seasalter, New Hythe, Higham, Faversham, Iwade, East Malling (M.). Usually associated with salt marshes. 5-9.
- S. pallipes* (Fab.). Locally common. Deal (D. and S.); New Hythe, Seasalter, Oare, near Faversham, Birling, East Malling (M.). This is also a salt marsh species, and is frequently found in association with the former species. 6-9.
- Micracanthia marginalis* (Fall.). Very rare. Deal (Douglas). This species was captured in 1863 at Deal by Douglas. There is no recent record of this insect in Kent. 8.
- Chartoscirta cincta* (H.-S.). Local. Lee, Eltham (D. and S.); Paddock Wood, New Hythe, Penshurst, Higham, East Malling (M.). Damp situations. Edges of lakes, ditches, rivers, canals, etc. 3-9.
- C. elegantula* (Fall.). Rare. New Hythe, East Malling (M.). Banks of rivers, between high tide and low water mark; in debris. Hibernates in the adult state. 1-12. The variety *flori* Dhrn. occurs commonly at East Malling (M.).
- C. cocksii* (Curtis). Not common. New Hythe, Hothfield, East Malling (M.). Damp situations in sphagnum. Adults found all the year round. 4-10.

NAUCORIDAE

Ilyocoris cimicoides (L.). Common. Dover (H.); Plumstead, Lee, Lewisham (W.); Isle of Sheppey, Iwade, Deal (Ch.); Aylesford, Bearsted, Isle of Grain, Marden, Horsmonden, Faversham, Higham, Worth, Grove Ferry, New Romney, Mereworth, East Malling (M.). Ponds and ditches. Hibernates in the adult state. 1-12.

NEPIDAE

Nepa cinerea L. Common. Iwade (Ch.); Deal (Bed.); Mereworth, Higham, Ham Hill, Snodland, Aylesford, Bearsted, Higham, Littlestone, Sevenoaks, Brook, Tonbridge, Penshurst, Chiddingfold, Marden, Crundale, East Malling (M.). Bottoms of ponds. Hibernates as adult. 1-12.

Ranatra linearis (L.). Local. Lee (W.); Deal (Bed.); New Romney, Grove Ferry, Iwade, Aylesford, East Malling (M.). Ponds. This species attaches itself to the stems of aquatic plants, and prefers isolated plants to those growing in dense masses. Hibernates in the adult state. A predacious species which feeds on a variety of small aquatic insects and minute fishes. 3, 4, 5, 8, 9, 10, 11.

PLEIDAE

Plea leachi Macgregor. Common. Dover (H.); Folkestone (N.); Swalecliffe (But.); Deal (Ch.); Isle of Sheppey, Leybourne, Iwade (M.). Ponds and ditches. Stagnant water. Hibernates in the adult state. 8, 9, 10, 11, 4.

NOTONECTIDAE

Notonecta glauca L. Abundant. Dover (H.); Plumstead, Lee, Catford (W.); Swalecliffe (But.); Higham, Iwade, Appledore, Isle of Grain, Hothfield, East Malling (M.). Stagnant ponds, etc. Hibernates in the adult state. 3, 4, 8, 9, 10.

N. obliqua Gallen. Locally common. New Romney, Dymchurch, Hothfield (M.). Ponds, etc. 8, 9, 10. The variety *delcourti* Poisson occurs at Hothfield Heath (M.).

N. maculata Fab. Locally common. Hothfield Heath, Snodland, Marden, Grove Ferry, East Malling (M.). Ponds, etc. 8, 9, 10.

N. viridis Delc. Common. Gravesend Marshes (Bed.); Isle of Sheppey, Iwade, Isle of Grain, Hothfield, Faversham (M.). Ponds, etc. 3, 5, 9, 10.

CORIXIDAE

Cymatia coleoptrata (Fab.). Local. Whitstable (C.); Folkestone (H.); Lee (W.); Gravesend (Bed.); Higham, New Romney, Faversham, Langley, Aylesford, Grove Ferry (M.). Ponds and ditches. 3, 4, 8, 9, 10.

C. bonsdorffi (C. Sahl.). Rare. Langley (M.). Lakes. 4.

Corixa lateralis Leach. Local. Deal (H.); Catford (W.); New Romney, Higham, Faversham, Hothfield, Iwade, Snodland, East Malling (M.). Stagnant ponds, etc. 7, 8, 9, 10, 11. Attracted to light.

C. nigrolineata Fieb. Local. Worth, Hothfield, Hawkhurst, East Malling (M.). Ponds and streams. 4, 8, 9, 10.

- C. concinna* (Fieb.). Rare. Lewisham (D. and S.); Gravesend (C.). A search extending over many years has failed to turn up this species in the Gravesend district, where G. C. Champion recorded it many years ago.
- C. praeusta* (Fieb.). Common. Lee (W.); Iwade, New Romney, Higham, Leybourne, Langley, East Malling (M.). In both ponds and running water, streams, etc. 3, 4, 9.
- C. semistriata* (Fieb.). Local. Lee (W.); Hothfield (M.). Ponds. 5, 8, 9, 10.
- C. limitata* (Fieb.). Not common. Lee (W.); Headcorn, Hothfield (M.). Ponds. 8, 9, 10.
- C. fossarum* Leach. Common. Deal (H. W. Daltry); Appledore, New Romney, Higham, Faversham, Tonbridge (M.). Ponds and ditches. 4, 9, 10.
- C. falleni* (Fieb.). Common. Deal (H.); Lee (W.); Grove Ferry, Higham, Faversham, Tonbridge, Hothfield, Aylesford, East Malling (M.). Ponds. 3, 4, 5, 7, 9, 10. Attracted to light.
- C. distincta* (Fieb.). Locally common. Lewisham (D. and S.); Lee (W.); New Romney, Faversham, East Malling (M.). Ponds. 8, 9.
- C. stagnalis* Leach. Locally common. Gravesend (D. and S.); Plumstead (W.); Swalecliffe (But.); Deal, Iwade, Isle of Grain (M.). Stagnant and contaminated ponds. 3, 8, 9, 10.
- C. selecta* (Fieb.). Local. Isle of Grain, Iwade, East Malling (M.). Confined to brackish water; mainly along coastal areas. The East Malling specimens were attracted to light. 5, 6, 7, 8, 9.
- C. moesta* (Fieb.). Common. Deal (H.); Appledore, New Romney, Faversham, Isle of Grain, Egerton, Hothfield, Bearsted, Higham (M.). Ponds in peaty soil and heath lands. 4, 8, 9, 10.
- C. linnei* (Fieb.). Common. Deal (H.); Gravesend Marshes (Bed.); Higham, Isle of Sheppey, Grove Ferry, Faversham, Isle of Grain, Egerton, Headcorn, Langley, Iwade, East Malling (M.). Ponds and ditches. Marshy situations. Adults found all the year round. Attracted to light. 1-12.
- C. sahlbergi* (Fieb.). Common. Deal (H.); Lee, Catford (W.); Gravesend Marshes (Bed.); Appledore, Higham, Isle of Sheppey, Penshurst, Grove Ferry, New Romney, Horsmonden, Faversham, Isle of Grain, Tonbridge, Hothfield, Egerton, Headcorn, Staplehurst, Leybourne, East Malling (M.). Attracted to light. Ponds and dykes on marshy land, etc. 3, 4, 7, 8, 9, 10, 11.
- C. punctata* (Ill.). Very common. Deal (H.); Lee (W.); Higham, Appledore, Isle of Sheppey, Penshurst, Leybourne, Ham Hill, Grove Ferry, Worth, New Romney, Higham, Faversham, Isle of Grain, Hothfield, Headcorn, East Malling (M.). Ponds. Hibernates in the adult state. Attracted to light. 1-12.
- C. affinis* Leach. Local. Gravesend (D. and S.); Deal (H.); Catford (W.); Swalecliffe (But.); Isle of Sheppey, New Romney, Higham, Faversham, Isle of Grain, Hothfield, Iwade, East Malling (M.). Ponds, etc. 8-12. Attracted to light.
- C. panzeri* (Fieb.). Not common. Worth, New Romney, Leybourne, Iwade, Higham (M.). Ponds, etc. 9.

C. striata (L.). Common. Deal (H.); Lee, Catford (W.); Higham, Isle of Sheppey, Grove Ferry, Worth, New Romney, Higham, Faversham, Tonbridge, Hothfield, Headcorn, East Malling (M.). Running water, streams, etc. 3, 4, 5, 7, 8, 9, 10. Attracted to light.

INTRODUCED SPECIES

Nezara viridula L. East Malling (M.). Two specimens in local general provision store.

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