

Ask Pittier to name  
Hog 210 if he has it.

Coccoloba

Part. 12 III. where would be under this; ~~two glab.~~ ~~apical~~

Sp. 2, 3 of this being not very distinct. Colombia

Things intermediate

Y has a var. of Neel's Sabaneta de Barrera

Caracas, Julio 29, 1931

Mr. Ellsworth P. Killip,  
Division of Plants,  
Smithsonian Institution,  
Washington, D.C.

Dear Mr. Killip:

*Copey* X  
With this mail I send to your personal address as a sample, a specimen of a parasitic plant which was brought me from the State of Falcón, where it grows on Tribulus cistoides. At first, I thought it might belong to the Balanophoraceae, but the dissection showed, if I have seen well, that each flower has a calyx consisting of five or more lineal segments, about the length of the corolla. This is gamopetalous with ten narrow tips. The ten stamens are inserted near the middle of the tube, their filaments are very short and the anther-cells are separated. The ovary is disc-shaped, apparently with five cells; the style is columnar and short, and it ends in a 5-lobed stigma. It seems consequently that the plant belongs to the Sympetalae, but I have not been able to place it further. I should be very thankful to you if you would do better and send me the name at your first opportunity.

I have been working at your list with which I cannot always agree. My number 12003 cannot be Tibouchina barbiger; its description corresponds with that of T. Karstenii with the exception of the petals which are much larger in Saer's specimens.

Both nos. 12865 and 12971 seem to come nearer to Miconia tuberculata. On the whole I think Gleason is not very accurate in his determinations.

Nº 11712 seems to correspond to the description of Nectandra pichurim, but the leaves and inflorescences look distinct from those of nº 12768 which you identified also as N. pichurim.

Nº 12024 cannot be Coccoloba caracasana according to the description. Under that name I have 8745, 7460, 7734, 12111, 12112, 12328 and Saer's 343. I have been trying to key

the genus and you will find inclosed a copy of my attempt which please turn over to Mr. Smith, asking him to make an effort to name the numerous unidentified collections from Venezuela.

Among my manuscripts I have a monograph of the Venezuelan species of *Ficus*. According to this n° 12186 and 12421 do not belong with *F. gigantea* but are two distinct species.

Later on, I may sent you further examples of my disagreeing with the identifications you sent. Meanwhile I remain

yours sincerely

A. Pittier.

*Coccoloba venezuelensis*

Coccoloba

Paniculatae, racemis spiciformibus saepe ramosis et paniculam simplicem aphyllam formantibus; foliis late obovatis, saepe magnis (usque ad 60 cm. longis), glaberrimis

1. C. latifolia

Haplostachyae, racemis spiciformibus simplicibus

Folia orbicularia vel late ovata, obtusa, rigide coriacea

Ochreae plus minusve nigro-punctatae; folia subtus insigniter prominentissime reticulatis

Spicae crassiusculae; folia subtus plus minusve rufo-pubescentia, usque ad 21 cm. longa, 16 cm. lata

2. C. caracasana

Spicae tenuiores; folia glaberrima, usque ad 14 cm. longa, 10 cm. lata

3. C. P. 12112

Ochreae epunctatae; folia glaberrima

Fructus carnosus, ad 20 mm. longus, liberus; folia sublaevia, venis primariis 5-6

4. C. uvifera

Fructus exsuccus, parvus, in perianthio accrescente inclusus

Folia distincte orbicularia vel latissime ovata vel obovata, obtusa, venis primariis 9-10

Ochreolae tubulosae, coriaceae, brevissimae, persistentes; folia magna, crassa, laevia ?

5. C. (guaremalensis)

Ochreolae laxae, membranaceae, internodia dimidium aequantes vel longiores; folia modica, subcoriacea

6. C. (amparensis)

Folia ovalia, apice acuminata, ad 19 cm. longa

7. C. parimensis

Folia ovata, obovata, oblonga, vel lanceolata, basi plus minusve angustata, membranacea vel vix coriacea

Folia oblonga vel oblongo-lanceolata, acuta vel obtusa

Folia basi acuta

Folia obovata, glaberrima, apice abrupte breviterque obtuso-acuminata; bracteeae 1-florae rhachique puberulis

8. C. P. 18324

Folia oblongo-lanceolata, sensim acuminata, subtus petiolique pubescentia; bracteeae 3-florae rhachique pubescentia

9. C. acuminata

Folia basi obtusa, glaberrima

Folia lanceolato-oblonga 2.5-10 cm. longa

10. C. Moritzii

Folia oblonga 15-60 cm. longa

11. C. excoriata

Folia ovalia, obovata vel oblonga, basi angustato-rotundata vel subcordata

Folia ovalia

Racemi crassi, erecti; folia ovata, subcoriacea, utrinque obtusa, subtus pubescentia, usque ad 10 cm. longa, 5.5 cm. lata; ochreae punctatae

12. C. P. 18327

Racemi tenui, penduli; folia membranacea glaberrima; ochreae epunctatae

Folia 7-9.5 cm. longa, 5.5-7 cm. lata

13. C. Ernstii

Folia usque ad 17 cm. longa, 12 cm. lata

14. C. Pittieri

Folia plus minusve oblonga

Folia subtus ad nervi plus minusve pilosa

15. C. Spruceana

Folia utrinque glabra

Venae primariae 7-9; folia oblonga, acuminata, basi angustata obtusa; racemi nutantes 16. C. padiformis

Venae primariae circa 5; folia oblongo-ovata

Folia apice acuta, petiolo 2.5-3 cm. longo; floribus parvis 17. C. fagifolia

Folia apice obtusa, petiolo 0.8-1.2 cm. longo; floribus majusculis 18. C. laurifolia

Incertae sedis

19. C. dicica

20. C. (?) 8220

21. C. ramosissima

Caracas, July 24, 1931

Mr. Ellsworth Killip,  
Associate Curator,  
Division of Plants,  
Smithsonian Institution,  
Washington, D.C.

Dear Dr. Killip:

Your letter of July 1st. at hand. I thank you for the new identifications.

With regard to Jahn's plants, I have made in your list the corrections for the numbers which we have in our herbarium. The remaining numbers are evidently those for which there were no duplicates, so the best thing to do is, as you suggest, to give them new numbers beginning with 1316.

Furthermore I have no botanical news to tell you since I have not been working since June 1st., when I have been suddenly separated from the Museum, with my salary reduced from Bs. 1750 to 600 and all my assistants have been dismissed. Of course, I do not accept the new arrangement and am staying here only until the Government have decided what they are going to do about it. But I am in great fear that our herbarium of over 10,000 sheets will have the same fate as those of Vargas and Ernst.

I will keep you posted as to future movements. Meanwhile my address will be the same as before and I remain

Yours sincerely

*A. Sittler.*

JAHN PLANTS

El Limón, Sept. 1917.

El Limon.

- |  |  |
|--|--|
| 484. <i>Buchenavia</i> !                                 | 1325 522. Cassia                                   |
| 489. Uragoga   | 1296 524. Piper = 1296                             |
| 490. Psychotria?   | 1325 525. Rub.                                     |
| 491. Rub. <i>Guichona Henleana Kottler</i>               | 1291 526. "Raizudo" = 1291                         |
| D-493. <i>Añóna</i>                                      | 1376 527. Inga                                     |
| 494. <del>Arabiacea</del> <i>Pleiotoma diversifolium</i> | 528. Asclepiad. (1327)                             |
| 495. Swartzia (H.B.K.) <i>Bar. &amp; Schum.</i>          | 529. <i>Chusquea serrulata</i> Pilger = 1295       |
| 496. Not recognized                                      | D 530. Roupala?                                    |
| 497. Rub. <i>Cordia</i>                                  | 531. Bombacaceae?                                  |
| 498. Psychotria  | 532. Baccharis = 1292                              |
| 499. <i>Myrospermum frutescens</i> Jacq.                 | 1328 533. Souroubea?                               |
| D-501. <i>Bombax</i> (We have <i>Cerastroma</i> ?)       | 534. <i>Bauhinia splendens</i> H.B.K. = 1288       |
| D-504. <i>Trichilia</i> (" " <i>tea</i> )                | 535. Eugenia? = 1290                               |
| D-505. "Almendo." Not recognized                         | 1329 536. Not recognized.                          |
| D-506. " " "   | 1330 537. Rub.                                     |
| D 1300 = 508. " " "                                      | 1331 538. Rub.?                                    |
| D 1291 = 510. Apoc.? <i>Clusia</i> !                     | 1332 539. Flacourt.? <i>Casearia</i>               |
| Nmd ←  | 1333 540. Rub.                                     |
| Bobures, June 1917                                       | 1334 541. Roupala?                                 |
| 1317a 511. <i>Melanthera</i>                             | 1335 542. Not recognized. <i>Allophylus</i> = 1289 |
| 1318a 512. <i>Croton</i>                                 | 543. " "   |
| D-513. <i>Borreria</i>                                   | 1336 544. Euphorb.?                                |
| 1319a 514. <i>Croton</i>                                 | 1337 545. Myrsin.?                                 |
| 1298 515. <i>Cordia globosa</i>                          | 1338 546. <i>Bonchocarpus</i> ?                    |
| 1320   | 1339 547. "Santonino"                              |
| Pto. La Cruz   | 1340. <i>Elaeocarp.</i>                            |
| D-516. Flacourt.?  | 1341. <i>Bignou</i> Loc.?                          |
| 1321 517. <i>Manettia</i>                                | 1342. ?  |
| El Limón   | 1342. <i>Pithecolobium</i> ?                       |
| 1322a 518. Orchid  | D = N.Y. destroyed                                 |
| Colonia Tovar  |  |
| 1323a 519. Grass   |  |
| 1297 = 520. <i>Tagetes</i>                               |  |
| Puerto La Cruz   |  |
| 1324 521. <i>Acanth.</i>                                 |  |

A. Jahn. Confusion in numbers; renumbered by E. P. Killip as follows:

1316.	El Limon,	1917.
1317. Melanthera	" "	May, 1917
1318. Croton	Bobures,	" "
1319. "	"	June, "
1320. Rubiaceae	El Limón	Nov., "
1321. Manettia	" "	1918
1322. Orchid	" "	June, "
1323. Isachne rigens (Sw.) Trin.	Colonia Tovar	"
1324. Rubiaceae	Pto. La Cruz	Nov. 1917
1325. Cassia "candelera"	El Limón.	" "
1326. Inga	" "	" "
1327. Asclepias	" "	" "
1328. Sauroubea?	" "	" "
1329.	" "	July, 1919
1330. Rubiaceae	" "	" "
1331. "	" "	" "
1332. Casearia	" "	" "
1333. Rubiaceae	" "	" "
1334. Roupala	" "	" "
1335.	" "	" "
1336. Myrsinaceae?	Aguacatal	June "
1337. Conomorpha?	"	" "
1338. Cassia	El Limón	" "
1339. "Santonino"	Aguacatal	July "
1340. Elaeocarpaceae?	Colonia Tovar.	
1341. Bignoniaceae	El Limón?	
1342. Pithecolobium	" "	

Caracas, August 11, 1931

Mr. Ellsworth P. Killip,  
Division of Plants,  
Smithsonian Institution,  
Washington, D.C.

Dear Mr. Killip:

The following are further notes relating to your recent list of determinations:

*Peetia as Pitt. sup.* 13327 Melothria trilobata Cogn. is rather M. scabra Naud.

OK ✓ 13264 P., 429 Jahn - I do not think it is a new species but only the form mentioned by Weddell as Ottoa oenanthoides major.

✓ *These are all  
are similar* 337 Gehriger Lippia hirsuta L.f.- Is it not rather L. venezuelensis Briq. ? If not, what are P. 9870, 9966, Jahn 1140, Allart 167, 288 ?

304 Gehr. Polypodium leucolepis Kl. - Under that number we have Eryngium Moritzii Wolff.

✓ 291 Gehr. Gaiadendron tagua - Does not belong to Holt and Gehriger series.

2. 341 Holt and Gehr. Eupatorium crassifolium is right. Croton pungens is 341 Holt, collected at La Victoria, Aragua.

512 Gehr. Andropogon selloanus had been given already as A. leucostachyus.

564 Gehr. Pennisetum bambusifforme has been given formerly as P. tristachyum.

398 Gehr. Also comes under two names v.g. Lasiacis divaricata and L. ligulata.

✓ 217 Holt and Gehr. Cannot be Pterogastra major Tr. since it has 4-merous flowers. It is Pt. minor.

Finally my n° 11583 appears under three different names:  
Commelina robusta Kunth (det. Blake); Tradescantia multiflora  
Sw. (det. Kew) and Athyrocarpus persicariaefolius scabratus  
(Seub.) Gleason (det. Gleason). Our specimen is but one spe-  
cies. Which is it ?

I am now going to undertake the inscription of  
your more recent lists. If there are any discrepancies, I will  
let you know.

Since my last letter there has not been change in  
the situation. I am still waiting. Could you obtain from Maxon  
the names of the relatively large number of old unnamed ferns ?

Yours sincerely

A. Pittier.

August 26, 1931.

Mr. W. Pittier,  
Museo Comercial,  
Caracas, Venezuela.

Dear Mr. Pittier:

Your letter of the 11th has just been received. I have gone over a part of the corrections which you note. Unfortunately many of the Gehriger collections are still in the hand of the mounters, their mounting having been delayed due to the slowness in getting labels.

13327. This probably better Melothria scabra, though the shape of of the leaves does not seem just right.

13264. Surely this is not a new species. I merely passed on to you Dr. Rose's note.

The  
11583. Athyro carpus name is correct, though much of our material had been identified as Commelina robusta. Surely it is not Tradescantia multiflora.

Gehr. 337. This sheet has not come back yet. The other numbers you list are certainly L. venezuelensis.

I do not understand about the two sets of names for some of Gehriger's grasses. I find that our specimens bear just the identification of Mrs. Chase, which is the first of the pair given in your letter.

I have straightened out the Jahn collection in accordance with your letter of July 24, and enclosed is a list of the numbers with data which you were unable to associate with regular Jahn numbers.

Sincerely yours,

Ellsworth P. Killip  
Associate Curator  
Division of Plants.

Caracas, June 22, 1931

Mr. Ellsworth P. Killip,  
U. S. National Museum,  
Division of Plants,  
Washington, D.C.

Dear Mr. Killip:

At last I am able to send you the list of names from the beginning of my work in Venezuela up to n° 8629. We have been working under peculiarly difficult circumstances. Since June 1st., I am without assistants and even the porter has been taken away from the Museum. If this should continue I would probably be obliged to relinquish my position, but as a big change is now going on in the Government, I still have hopes that matters can be arranged. The reason given for the above mentioned suppression was a radical cut in the budget.

With regard to your big list of names, I note that you identify n° 11190 with Ruprechtia Hamanii, while those leaves belong to the type of Ruprechtia Saeri Pitt. N° 11583 is under three distinct generic names, one given at Kew, another given by Blake and the last one by you as determined by Gleason. N° 13264, Ottoa Jahni, corresponds very well with the description of O. oenanthoides major Wolff of the Pflanzenreich; the same is probably the case with 429 Jahn, which would be the type of the new species. So it is better that Rose did not publish his description.

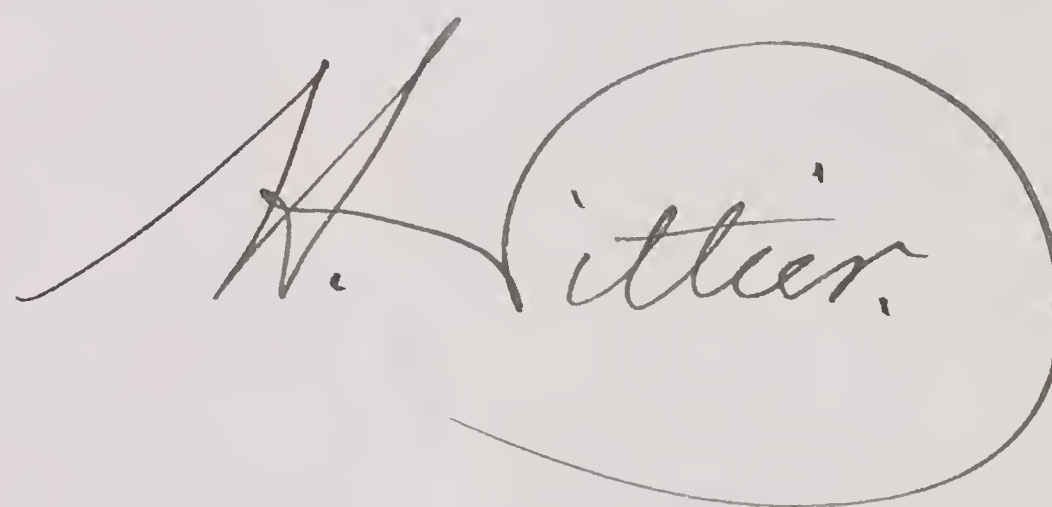
N° 13327 is rather Melothria scabra Naud. N° 337 Gehriger, you call Lippia hirsuta. It does not answer to the description; is it not rather Lippia venezuelensis Briquet? And what do you do with Pittier 9870, 9966, Jahn 1140, Allart 167, 288 ? 304 Gehriger you call Polypodium leucolepis Kl. and I have it as Eryngium Moritzii Wolff. N° 341 of Holt is Croton pungens, but it was collected at La Victoria, State of Aragua, and has nothing

*Handwritten mark*

to do with 341 Holt and Gehriger which is indeed Eupatorium crassifolium. Finally, Gaiadendron tagua is 291 of the Gehriger list, but not of the N. G. S. (Gehriger & Holt) collections.

These are about all the observations I have to make to your list. As you will understand, I have not been working lately and so cannot send you any new names.

Yours sincerely

A handwritten signature in cursive script, reading "A. W. Witter". The signature is enclosed within a large, hand-drawn circle.

September 17, 1936.

Mr. H. Pittier,  
P. O. Box 255,  
Caracas, Venezuela.

Dear Mr. Pittier:

Your letters of September first and third came yesterday, and although I have not had an opportunity yet of going into all the matters you bring up. I will give you what information I can.

Enclosed you will find a transcript of the data in my record book of your collection, which pertain to the numbers you list. You will see that several of the specimens have already been identified. Where there is absolutely no entry in the book it is possible though not certain that we never received the specimen.

Also I am enclosing a list of the grasses of your last collection, as I am not certain that this was ever sent you. They were named by Mr. Swallen soon after their receipt.

I have now finished naming several thousand South American collections which have come in during the past year and have just sent off long lists of identifications. I want now to give my attention to various monographs upon which I am working and to certain portions of the Flora of Colombia. Among the latter are Cyperaceae and Leguminosae, and I should prefer to postpone taking up your questions relating to these families until then. I have always felt that Chaetocalyx was badly in need of revision, and I am looking forward to comparing our specimens with your key.

Regarding the three collections mentioned in your letter of the 3rd: Jahn 3681 is entered in the record book as "Astragalus?" "Cracca?" Jahn 519 is almost certainly Phaseolus erythroloema, as you say. Gehriger 117 is not recorded in my book. I do not find these two unnamed specimens in my unidentified folder of Fabaceae, and I have doubtless put them into the Herbarium. I usually do not do this in the case of current collections, but as I am continually working on Leguminosae I must have done so in this case. I will look them up very soon.

Mr. Maxon had an operation about the first of August and was away for three weeks. He is back now and getting along finely. I am interested in what you say about Dr. Pérez Arbalaz. We have a great deal of correspondence and he sends me very fine material for identification. During the past year there were about 500 specimens. He also has unearthed a set of Triana's and is lending it to me family by family. Dr. Dugand I am also in touch with, but Mr. Standley "discovered" him, and I have felt a little bit reluctant to wean him away, even though I have observed that Standley does not hesitate to grab off my people.

Thank you ever so much for the "Trabajos." I still wish though that we could get the actual first publication of each of your species. The Gray Card Catalogue is in much confusion in citing them, and both the editors of that and the editors of Kew Index have told me how glad they would be if you and I could straighten the matter out. I hope you will sometime be able to ~~pick~~ pick up a complete set of the Boletín containing your papers.

I know you will forgive me for not answering every question you ask. I am

Pittier-2

quite rushed these days with a staff of 14 temporary helpers who are doing all sorts of work in which we are much in arrears.

With best wishes.

Sincerely yours,

Ellsworth P. Killip  
Associate Curator  
Division of Plants.

Enclosures.

Pittier

Cyperaceae

10428. *Cyperus alternifolius* L. (det. Britton)  
10878. *Rynchospora* (indet. - Britton)  
10924. *Hypolytrum sylvaticum* Kunth  
10941. *Hypolytrum* (young, det. Britton)  
11004. *Cyperus cayennensis* (Lam.) Britton (det. Britton)  
11030. " *compressus* L.  
12229. *Rynchospora setacea* (Berg) Boeckl.  
13372. *Scleria bracteata* Cav. (det. Core)  
8317, 10106. Blank in book. Will look up in herbarium soon.  
13531, 13535, 13537. Reported on list sent you Aug. 1936.

Compositae.

13190. *Hypochaeris sessiliflora* H.B.K. ex Pitt.  
7880, 7884, 8063, 13047. Blank in book; probably Blake has and I am sending him a note.

Musci.

11401. *Vesicularia crugeri* G. M. (det. Williams)  
12115. *Campylopus falcatus* Hartr. (det. Hartran)  
No names are entered for the other mosses on your list, and I don't know how to go about finding them. I am sure I have no unnamed mosses of yours.

Fam.?

8409. *Celastraceae?* *Maytenus?*? (det. Blake). By the way, I find in our unidentified folder of this family and *Aquifoliaceae* the following numbers of yours. Can you give me names for any of them? 8168, 7622, (without label: how about locality data?), 7708, 7954 (*Rhipocrataceae*), 8008, 8338, 8364, 8377, 9278, 10083, 11139 (*Hippoc.*), 11664, Schr. 298, 323; Jahn 476; Saer 96.  
10131. *Cybianthus venezuelanus* Mez (det. Pitt.)  
10205. *Cyperus confertus* Sw.  
10611. " ("Report later - Britton")  
10670. *Fimbristylis diphylla* (L.) Retz (Det. Britton)  
10967. *Eourea glabra* H.B.K.  
11026. Seaweed (not much chance of finding it)  
11488. From Blake's checkmark I take it that this was never received here.  
11843. *Najas* ("Not kept; too poor" - Blake)  
12164. *Lonchocarpus* (Strange this hasn't been named)  
12322. *Verbenaceae?*? Sterile. I shall send this, with several other *Verbenaceae*, to Moldenke on his return from Europe next month.  
12718. *Lilacopsis?*  
12733. *Crucifer*.  
13538. Reported Aug. 1936.  
8106, 8224, 10244, 12017, 12096, Blank.

Pittier grasses of last lot

Det. J. R. Swallen

- 13470. *Echinochloa cruspavonis* (H.B.K.) Schult.
- 13530. *Andropogon condensatus* H.B.K.
- 13545. *Melinis minutiflora* Beauv.
- 13547. *Paspalum unispicatum* (S. & M.) Nash
- 13549. *Eragrostis tephrosanthos* Schult.
- 13550. *Paspalum fimbriatum* H.B.K.

Pitt.

Additional names.

- 6051. *Ouratea pittieri* Sauer type coll.
- 13495. *Exolobus erioclada* (Benth.) Rusby? (det. Woodson)
- 13506. *Tabernaemontana heterophylla* Vahl (det. Woodson)

Holt & Gehr. 232. *Ouratea* aff. *acuminata* (DC.) Engl. (det. Sauer)

Undetermined LEGUMINOSAE, Pittier Collections at U. S. N. M. Jan. 13, 1932.

MIMOSACEAE

Inga  
Pittier 7460  
8408  
10944  
10993  
11967  
12295  
13050

Acacia  
" 11670  
12219  
12459  
13113

Box 14

Pithecolobium  
Pittier 11760  
12010 (equals 12050)  
11650  
12608

Calliandra  
" 11896  
12224  
13114  
H. & G. 68

Piptademia  
Pittier 10828

Mimosa  
" 11973  
12062  
12343  
12505  
12570  
12615  
Gehriger 614  
H. & G. 161  
204  
27  
412 (=Holt & Blake 770)  
Cornelio 33

Undetermined Leguminosae--2.

Genus uncertain.

Christ 7  
Pittier 10523  
13104  
Holt & Blake 673  
812  
Holt & Gehr. 216

CAESALPINACEAE

Brownea

Pittier 10920  
11931  
12106

Chamaecrista

Holt & Blake 482  
Gehriger 615  
12864  
11613

Grisol 5,  
30  
31  
11

Cassia (sens lat.)

Holt & Balke 646  
432  
Holt & Gehr. 18

Gehriger 445  
Pittier 13093  
12561  
13390  
13159  
12247

Bauhinia

Pittier 12415

Caesalpinia

Pittier 7625 (locality data needed.)

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Pittier 7624. Locality data needed.

Gehringer's Reliquiae.

92 a	-	Halenia		Laguna Mucuy, cabeceras del Sayay 4200-4300m.
189 a	-	<del>xxx</del>		Mucurubá, 2500 m. - Junio 19, 1930.
220	-			" " " " "
221 a	-			" " " " "
221 b	-			" " " " "
235 b	-			" " " " "
245	-	Solanum		" 2700-3000 " 25 "
260 a	-			" 2700-2800 " 27 "
280				
281 a				The localities of these 9 numbers are the same as
305				those of near numbers of plants already sent.
306				
314				
340				
341				
342				

The 11 specimens without numbers were not catalogued. They belong to the last collections made by Gehringer in the vicinity of ~~Mucurubá~~ and Cabay and should be numbered from the last number up. Unfortunately I cannot find the last part of G's catalogue which was probably left at the Museo Comercial.

Pittier.

13479	-	El Calvario de Caracas, 1080 m.	Junio 1933	Bumelia
480	-	Caracas, 830 m. (introduced)	" "	Graminae

13481 - 13485.

Valle de El Limon, Puerta La Cruz, 400-1000 m. - May 1934

13486	-	Colonia Covar, in cloud-forest, 2000-2100 m. a vine climbing on high trees; fl. pale yellow - Abril 27, 1934		Apocynaceae
13487	-	Los Corozos, 1000 m., valley of Pto La Cruz, May 1934.		Guatteria
13488	-	Stigmatophyllon - Vicinity of El Limon, 480 m.	" "	
13489	-	El Guayabal, valley of Pto La Cruz, 300 m.	" "	Malpighiaceae
13490	-	Olmedea tovarensis Kl. & Kartt? Vicinity of El Limon, 900 m.		
13491	-	Ficus -	" " " "	400 m.
13492	-	Serjania (Note the hairy seeds!) El Guayabal, 3-400 m.		
13493	-	Pleonotoma	" "	400 m.
13494	-	Callichlamys - Los Corozos, 8-900 m., valley of Pto La Cruz.		
13495	-	Exolobus	" " " "	" "



Undetermined Leguminosae--3.

DALBERGIEAE

Lonchocarpus

Pittier 12384  
12447  
12524

Christ 44  
Allart 283

Machaerium

Pittier 13295  
11434  
7504  
12484

Holt & Gehr. 167  
188

Tejera 251

Pterocarpus

Pittier 12085  
12598  
12272

Genus uncertain

Holt & Gehr. 300  
117

Holt & Blake 794  
632

Pittier 12164  
12423.

~~Send Phila. name for~~

Pittier 10365 - Indet.

12093 "

12099 "

12117 "

12322 "

12660 "

12893 "

13037 *Phoebe cinnamomifolia* Nees (Det. Pittier)

~~13366~~

13193 ~~Er~~ *Erodium cicutarium* (L.) Z'Her. (Det. Pittier)

---

Gehrigen (Det. Killip unless otherwise noted)

158

28

8 (fern)

139

221 *Cyperus cinerinus* Presl

210

206

180

✓ 110 *Polypodium polyphyllum* Presl (Det. Mason)

177 *Cheilanthes marginata* HBK. "

176

127

119

225 *Sisymbrium solidagineum* Tr. & Pl. (Det. Killip)

223 *Juncus microcephalus* HBK. ?

386 *Cephaelis axillaris* Sw. (Det. Standley)

Lehr. 330

319

310

309

288

262 *Mandevilla congesta* (HBK.) Woods. (Det. Woodson)

240 *Abutilon meridensis* Killip, ined. (Type)

370

365

430 *Miconia spinulosa* Naud. (Det. Gleason)

427

410

261

359 *Rhamnus humboldtianus* R. & S.  $\frac{1}{2}$

454 *Echinochloa crus-garvoria* (HBK.) Schult. (Det. Chase)

421 *Peperomia gelriggeri* Trel. (Type)

401 *Rapanea ferruginea* (R. & P.) Mez

511 *Hyparrhenia trachota* (H. & B.) Stapf (Det. Chase)

508 *Eupatorium inulaefolium* HBK. (Det. Robinson)

506

483

481

471 *Grammaderia hexamera* Pichin (Det. Pichin)

478 *Hesperomeles ferruginea* (Pers.) Benth.

461

457

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- Pitt. 10443
- 13443 *Lepidium virginicum* L. (Det. Schultze)
- 13408 *Paspalum unispicatum* (S. M. Nash) (Det. Chase)
- 13450 *Duirena umbellata* Rottb. (Det. Killip)
- 13452 *undat.*
- 13432 "
- 13431 *Eragrostis caroliniana* (Spreng.) Scribn. (Det. Hitchcock)
- 13430 *Eclipta alba* (L.) Hassk. (Det. Blake)
- 13422 *Chaptalia nutans* (L.) Polak<sup>ak</sup> "
- 13418 *undat.*

Heading at X'  
 at beginning of Fabaceae  
 then follow to end of sheet  
 with headings indicated

- li HBK. (Det. Killip)
- (L.) DC. " "
- na HBK. (Det. Pitkin)
- eri Piper ( " Killip)
- ibaea (Jacq.) Kunze

~~to be done~~

- at beginning of Asclepiadaceae
- 13149 *Asclepiomene biflora* (Mill.) F. & R. (Det. Killip)
  - 12866 " *americana* L. (Det. Pitkin)

~~Holton 960 *Begonia* (= *affinis*?) ad R.~~

at beg. ~~part~~ *Umbrosaceae* (or *Caesalpiniaceae*?)

- Pitt. 12864 *Cassia dendrina* Britton & Pitkin (Det. Pitkin)
- 13093 *Chamaecrista larensis* Britton, *undat.* (type)
- 12660 *Cassia hirsuta* L.
- 12505 *undat.*
- 12529 *Calliandra affinis* Pitkin (type)

Pitt. 10445

- 13443 *Lepidium virginicum* L. (Det. Schultze)
- 13438 *Paspalum unispicatum* (S. M. Nash) (Det. Chase)
- 13455 *Duirena umbellata* Rottb. (Det. Killip)
- 13452 *unident.*
- 13432 *"*
- 13431 *Eragrostis caroliniana* (Spreng.) Scribn. (Det. Hitchcock)
- 13430 *Eclipta alba* (L.) Hassk. (Det. Blake)
- 13422 *Chaptalia nutans* (L.) Polak<sup>ak</sup> *"*
- 13418 *unident.*

Leg's (at beginning of Fab.)

- 12489 *Stylosanthes humilis* HBK. (Det. Killip)
- 12527 *Mucuna pruriens* (L.) DC. *"*
- 12507 *Galactia jussieuana* HBK. (Det. Pitelkin)
- 12572 *Canavalia fendleri* Piper ( *"* Killip)
- 12573 *Benthameutha caribaea* (Jacq.) Kuntze

Notes

*Ononis fargyata* (Fend. 1751) Kuntze Orin

at beginning of *Aeschynomene*

- 13149 *Aeschynomene biflora* (Mill.) F. & R. (Det. Killip)
- 12866 *"* *americana* L. (Det. Pitelkin)

Holton 960 *Begonia* (L.) affinis? / ad Pl.

at beg. part. *Mimosaceae* (or *Caesalpiniaceae*?)

- Pitt. 12864 *Cassia dendrina* Britton & Pithers (Det. Pitelkin)
- 13093 *Chamaecrista larensis* Britton, *unident.* (type)
- 12660 *Cassia hirsuta* L.
- 12505 *unident.*
- 12529 *Calliandra affinis* Pithers (type)

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Pittier and Gehriger specimens indet at Philadelphia, November 1934.

In miscellaneous case near door

Pittier

13337. *Pheobe cinnamomifolia* Nees (Det. Pittier)  
13193. *Erodium cicutarium* (L.) L'Her. (Det. Pittier)

Gehriger (Det. Killip unless otherwise noted)

221. *Cyperus cimicinus* Presl  
225. *Sisymbrium solidagineum* Tr. & Pl  
223. *Juncus microcephalus* H. B. K. ?  
386. *Cephaelis axillaris* Sw. (Det. Standley)  
262. *Mandevilla congesta* (H. B. K.) Woods. (Det. Woodson)  
240. *Abutilon meridensis* Killip, ined. (type)  
430. *Miconia spinulosa* Naud. (Det. Gleason)  
359. *Rhamnos humboldtianus* R. & S.  
454. *Echinochloa crus-gavonis* (H. B. K.) Schult. (Det. Chase)  
421. *Peperomia gehrigeri* Trel. (type)  
401. *Rapanea ferruginea* (R. & P.) Mez  
511. *Hyparrhenia bracteata* (H. & B.) Stapf (Det. Chase)  
508. *Eupatorium imulaefolium* B. H. K. (Det. Robinson)  
471. *Grammadenia hexamera* Pittier (Det. Pittier)  
470. *Hesperomeles ferruginea* (Pers.) Benth.

Pittier

13443. *Lepidium virginicum* L. (Det. Schulz)  
13438. *Paspalum unispicatum* (S. & M.) Nash (Det. Chase)  
13455. *Fuirena umbellata* Rottb. (  
13431. *Eragrostia caroliniana* (Spreng.) Scribn. (Det. Hitchcock)  
13430. *Eclipta alba* (L.) Hassk. (Det. Blake)  
13422. *Chaptalia nutans* (L.) Polak " "

At beginning of Fabaceae

12489. *Stylosanthes humilis* HBK. (Det. Killip)  
12527. *Mucuna pruriens* (L.) DC.  
12507. *Galactia jussieuana* HBK. (Det. Pittier)  
12572. *Canavalia fendleri* Piper  
12573. *Benthalthanthe caribaea* (Jacq.) Kuntze

At beginning of Aeschynomene

13149. *Aeschynomene biflora* (Mill.) F. & R.  
12866. " *americana* L. (Det. Pittier)

At beginning of Mimosaceae (or Caesalpiaceae?)

12864. *Cassia dendrina* Britton & Pittier (Det. Pittier)  
13093. *Chamaefistula larensis* Britton, ined. (type)  
12660. *Cassia hirsuta* L.  
12529. *Calliandra affinis* Pittier (type)

Rec. in Pitt's <sup>list</sup>  
Notes

*Crotoni venezuelenses*

- Groton anomalus Pittier sp. n. 11757 (type)
- " barbatus H.B.K.
- " callicarpaefolius Vahl
- " caracasanus Pittier sp. n. Saer 276 (type); Pitt. 11131, 11289.
- " chamaedryfolius Griseb. - Pitt. 10550, 12495.
- " choristolepis Urb.
- " confusus Pittier sp. n. Pitt. 13077, type.
- " corylifolius Lam.
- " crenatus Muell.-Arg.
- " cuneatus Klotzsch
- " Currani Blake - Pitt. 10368.
- " dolichostachyus Pitt. sp. n. - Pitt. 12616 (type); 10651.
- " ferrugineus H.B.K. - Jahn 1063.
- " flavens L. - Saer 63; Pitt. 10487, 12154.
- " fragilis H.B.K.
- " funkianus Muell.-Arg. - Pitt. 7612, 7532.
- " glabellus L. - Saer 261; Pitt. 7672, 8838, 11296. = 11926  
In book on Myrsine  
fruticosa
- " glandulosus L. Griseb 12; <sup>→ L. B. Griseb. f. rug.</sup> Jahn 512; Pitt. 9659, 13082, 8938.
- " gossypifolius Vahl - Allart 239; Pittier 7532, 9898, 11261.
- " grossedentatus Pittier sp. n. Pittier 13105, type.
- " heliaster Blake
- " helicoides Muell.-Arg.
- " implexus Pittier sp. n. - Pittier 9039, type. (spec. in an urn)

- Croton lobatus* L. - Pittier 9857, 12345, 13083; Jahn 514.
- " *Malambo* Karsten
- " *micans* H.B.K. - Pittier 10507.
- " *multicostatus* Pittier sp. n. - Pittier 8013, type, 11948 ?
- " *niveus* Jacq. - Pittier 10287, 11651.
- " *orinocensis* Muell.-Arg.
- " *ovalifolius* Vahl. - H. Pittier 52; Jahn 656, 675; Saer 94; Pittier 7229, 9620, 10292.
- " *populifolius* Lam. - Allart 515; Saer 58; Pitt. 7298, 7642, 9602, 9814, 10230, 10261.
- " *pseudo-china* Schlecht. - Pittier 7837, 11314.
- " *pungens* Jacq. - Hnos. Crist. 100; Holt 341; Allart 517; H. Pittier 163; Pitt. 7034, 9455, 9778, 9867.
- " *redolens* Pittier - Pitt. 11886, type; 10250, 10254.
- " *rhamnifolius* H.B.K. - Pittier 10200; 10483, 11196, 11197, 11198, 11758, 12451.
- " *ruizianus* Muell.-Arg.
- " *scaber* Willd. - Pittier 9862, 11841, 11884.
- " *speciosus* Muell.-Arg. - Allart 175; Pittier 9577.
- " *suavis* H.B.K.
- " *timotensis* Pittier sp. n. - Pittier 12646, type.
- " *truxillanus* Pittier sp. n. - Pittier 10723, type; 10725, 12627.
- " *umbratilis* H.B.K.

Speciei inquirendae

*Croton crenatus* Mueller-Arg., *Linnaea* 34: 129, 1865.

" *margaritensis* Johnston, *Proc. Amer. Acad.* 40: 689, 1905.

" *marginatus* H.B.K., *Nov. Gen. & Sp.* 2: 81, 1817. (*Lasiogyne* -  
*Gonocladium* ?)

" *megalodendron* Muell.-Arg., *Flora* 55: 4, 1872.

Specimina indeterminata, plerumque manca

Pittier 7182, 8821, 10370, 13101.

H. Pittier et al. (U. S. National Museum, Aug. 3, 1931)  
(Labiatae det. C. Epling; Apocynaceae by R. E. Woodson)

Send Pittier  
& of  
8/13/31  
Ent. in  
Pitt. book

Pittier 10353. *Plumeria caracasana* Johnst.

12426. " *loranthifolia* Muell. Arg.

12778. *Mandevilla subsagittata* (R. & P.) Woods.

13018. " *moritziana* (Muell. Arg.) Woods.

Tejera 125. *Rauwolfia* (fruit only)

154. *Prestonia coalita* (Vell.) Woods.

170. *Tabernaemontana* (fruit only)

185. *Rauwolfia* " "

209. *Rhabdadenia macrostoma* (Benth.) Muell. Arg. (Det. Woodson  
(the single fruit on our sheet in possibly *Thevetia*)

224. *Tabernaemontana* (no/ infl.)

228. " *psychotriaefolia* H.B.K.

Jahn 434. *Sphacele bullata* H.B.K.

Holt & Gehriger 164. *Prestonia acutifolia* (Benth.) K. Sch.

186. *Hyptis atrorubens* Poit.

202. *Mandevilla mollissima scabra* (R. & S.) Woods.

214. *Ditassa adnata* Fourn.

371. *Hyptis parkeri verbenaefolia* (Mart.) Epling

H. Pittier et al.

U. S. National Museum, July 17, 1931.

Nyctaginaceae by P. C. Standl; Phoradendron & Piperaceae by W. Trelease;

others by E. P. Killip

H. Pittier

5761. *Boerhaavia caribaea* Jacq.  
5762. *Oxybaphus violaceus* (L.) Chois.  
7127. " "  
7203. " "  
12410. " "  
5851. *Pisonia macranthocarpa* Donn. Sm.  
6189. *Parathesis venezolana* Mez  
6421. *Torrubia microphylla* (Heimerl) Standl.  
6422. " *pacurere* (HBK) Standl.  
8093. " "  
7677. " "  
9074. " "  
7136. " *ferruginea* (Kl.) Standl.  
8857. " "  
7469. *Gloxinia pallidiflora* Hook.  
7667. *Neea anisophylla* Ernst  
10390. " "  
7499. *Torrubia olfersiana* (L.K. & O.) Standl.  
9463. " "  
10323. " "  
12371. " "  
8091. *Torrubia rusbyana* (Heimerl) Standl.  
8837. " *ferruginea* (Kl.) Standl.  
9210. " "  
9462. " "  
8982. Our specimen is not very complete but is this not *Carica microcarpa* Jacq?  
9371. *Begonia tovarensis* Kl.  
9950. " "  
10032. " *trispatulata* A. DC.  
10140. " *humilis* Ait.  
10238. *Agave evadens* Trel. (Det. Trelease)  
10687. *Boerhaavia coccinea* Mill.  
11070. *Tamarix gallica* L.  
11392. *Begonia humilis* Ait.  
11704. *Torrubia pubescens* (HBK). Standl.  
11950. Near *Neea anisophylla* Ernst, but probably an undescribed species. Material not suitable for description (P.C.S.)  
12070. *Piriqueta cistoides* (L.) Griseb.  
12205. *Torrubia fragrans* (Dun.-Cours.) Standl.  
12333. " *pubescens* (HBK) Standl.  
12436. *Epiphyllum hookeri* Haw.  
12455. *Turnera odorata* Rich.  
12555. *Phoradendron piperoides*  
12855. *Myrcia gollmeriana* Berg  
13086. *Piper anisatum* H.B.K.

Copy (exc. *Boerhaavia*  
part)

to  
all to Pittier  
Ent. Pittier obs  
7/17/31

Pittier-2

Pittier

- 13165. *Peperomia chachopoana* Trel. (type)
- 13242. *Isoetes lechleri* Mett. (Det. Palmer)
- 13260. *Peperomia ellipticifolia* Trel.
- 13324. *Piper bredemeyeri* Jacq.

Jahn

- 212. *Oxybaphus violaceus* (L.) Chois.
- 617. *Viola nelsonii* Becker
- 759. *Cuphea denticulata* H.B.K.
- 896. Perhaps a form of *Laplacea semiserrata*.
- 941. *Laplacea semiserrata* (M. & Z) Camb.
- 1154. *Viola obliquifolia* Turcz.
- 1190. *Cassaria serrulata* Sw.?

H. Pittier

- 37. *Begonia dichotoma* Jacq.

Christ

- 70. *Viola tricolor* L. (form) ?

Saer

- 5. *Torrubia ferruginea* (Kl.) Standl.
- 168. " "
- 156. *Pisonia macranthocarpa* Donn. Sm.

Allart

- 222. *Agave* (new species but U.S.N.M. sheet has no leaves; do you have foliage which we might borrow for description by Dr. Trelease?)
- 387. *Begonia pilderia* A. DC.
- 408. " *tovarensis* Kl.
- 486. " *fagopyroides* (Kth. & Bouché)

Cornelio

- 67. *Salpianthus purpurascens* (Cav.) H. & A.

Holt & Gehrig

- 55. *Psidium araca* Raddi
- 160. Is not this *Ouratea asterocarpa* Pittier?
- 200. *Psidium araca* Raddi
- 235. No flowers. *Turneraceae*?
- 247. *Cuphea speciosa* (Andr.) Kuntze
- 249. *Rudgea fimbriata* (Benth.) Standl. (Det. Standley as in case of all *Rubiaceae* which follow)
- 250. *Psychotria rhodoleuca* Muell.
- 251. " *irundata* Benth.
- 271. *Piper marginatum* Jacq.

July 9, 1931.

Mr. Eduardo Quisumbing

Pittier-3

Holt & Gehriger, cont.

- 284. *Psychotria patens* Sw.
- 291. *Palicourea corymbifera* (Muell.) Standl.
- 296. *Ladenbergia magnifolia* (R. & P.) Kl.
- 298. *Palicourea obscurata* (Muell.) Standl.
- 324. *Phoradendron dimidiatum* Eichl.
- 348. *Psychotria?* Material too poor.
- 350. " *martiana* Muell.
- 359. " *bracteata intermedia* Muell.
- 364. " *martiana* Muell.
- 375. *Faramesa longifolia* Benth.
- 379. *Myrcia sylvatica* (L.) DC.
- 383. *Ouvatea ferruginea* Engl.
- 386. *Psychotria necepinata* Standl. (type)
- 394. *Myrcia divaricata* (Lam.) DC.

Gehriger

- 57. *Hypericum brathys* Lam.
- 241. *Begonia fuchsioides* Hook.
- 350. *Cordia cylindrostachya* (R. & P.) R. & S. I cannot distinguish this from *C. caracasana* DC. It is quite distinct however from *C. curassavica* and *C. macrostachya*, from northern coastal Venezuela).
- 421. *Peperomia angustata* H.B.K.
- 497. *Begonia towarensis* Kl.
- 611. *Piper rubricundum* Moritz

VENEZUELAN FERNS COLLECTED BY H. PITTIER ET AL.

Identified at U. S. National Herbarium by Wm. R. Maxon, June 1931.

erik  
S. J. Y.  
+ Pitt.  
~~erik~~  
erik  
erik

- Pittier 11834. *Dryopteris tetragona* (Sw.) Urban  
11834. " " " "  
11853. *Hemitelia integrifolia* Kl.  
12136. *Alsophila villosa* (H. & B.) Desv.  
12172. *Dryopteris tijuccana* C. Chr.  
12983. *Dicranopteris nuda* (Moritz) Maxon  
13010. *Hemidictyum marginatum* (L.) Presl  
13197. *Pityrogramma ornithopteris* (Kl.) Domin  
13259. *Polystichum polyphyllum* Presl  
13411. *Lygodium polymorphum* (Cav.) H.B.K.  
W. Gehriger 197. *Pityrogramma ornithopteris* (Kl.) Domin?  
José Saer 281. *Selaginella convoluta* (Walk. Arn.) Spring  
A. Allart 238 *Cheilanthes moritziana* Kunze  
244. *Polypodium plesiosorum* Kunze (sens. lat.)  
335. *Lycopodium reflexum* Lam.  
371. " *callitrichaefolium* Mett.  
416. " *clavatum* L. var.  
460. *Polypodium angustifolium* Sw. (sens. lat.)  
465. *Saccoloma domingense* (Spreng.) Prantl  
470. *Hypolepis viscosa* Karst.  
Gehriger 196. *Blechnum occidentale* L.  
Pittier 6183. *Ocimum basilicum* L. (Det. Epling)  
Jahn 119. *Lepedinia* (Det. Epling)

July 1, 1931.

Mr. H. Pittier,  
Museo Comercial,  
Caracas, Venezuela.

Dear Mr. Pittier:

Your letter of June 8 came a short time ago, and I am glad to have the information which it contained.

Right now the only matter I want to straighten out with you is that of the two packages of Jahn specimens about which I wrote. The material is still in good condition and bears adequate locality data; the only question is, what numbers shall we assign to the specimens? I enclose a list of the numbers in this set together with casual generic identifications of each; also one of the labels. On the list of identifications which Dr. Blake turned over to me there is no entry for numbers 484-499, with the exception of 485, 491, and 492, and it is barely possible that the plants in question may represent those numbers. But from 501-547 there is a wholly dissimilar set of identifications, and, from your letter, I judge that at least here there are two sets of plants involved. I wonder if you have a similar series of Jahn's plants under <sup>some other</sup> these numbers. If not, I suggest that I renumber these beginning with his latest number 1315 (is this right?). We are in an exceptionally good position just now to mount plants, and I would like to turn them in.

Enclosed is a list of Gehriger's composites..

Sincerely yours,

(Enclosures)

Ellsworth P. Killip  
Associate Curator  
Division of Plants.

JAIN PLANTS

El Limón, Sept. 1917.

- 484.
- 489. Uragoga
- 490. Psychotria?
- 491. Rub.
- 493. Anóna
- 494. Arragiacae
- 495. Swartzia
- 496. Not recognized
- 497. Rub.
- 498. Psychotria
- 499. Myrospermum
- 501. Bombax
- 504. Trichilia
- 505. "Almendo." Not recognized
- 506. " " "
- 508. " " "
- 510. Apoc.?

Retures, June 1917

- 511. Melanthera
- 512. Croton
- 513. Borreria
- 514. Croton
- 515. Cordia globosa

Pto. La Cruz

- 516. Flacourt.?
- 517. Manettia

El Limón

- 518. Orchid

Totonia Tovar

- 519. Grass
- 520. Tagetes

Puerto La Cruz

- 521. Aganth.

El Limon.

- 522. Cassia
- 524. Piper
- 525. Rub.
- 526. "Baizudo"
- 527. Inga
- 528. Agclepiad.
- 529. Chusquea
- 530. Roupala?
- 531. Bombacaceae?
- 532. Baccharis
- 533. Sauroubea?
- 534. Bauhinia
- 535. Eugenia?
- 536. Not. recognized.
- 537. Rub.
- 538. Rub.?
- 539. Flacourt.?
- 540. Rub.
- 541. Roupala?
- 542. Not. recognized.
- 543. " "
- 544. Euphorb.?
- 545. Myrsin.?
- 546. Lonchocarpus?
- 547. "Santenino"

W. Gehriger, Compositae; identified by S. F. Blake, U. S. National  
Museum, July, 1931.

---

- 23. *Verbesina simulans* Blake
- 90. *Senecio* (corr.)
- 95. " (corr.)
- 125. *Espeletia spicata* Sch. Bip.
- 233. *Alomia microcarpa* (Benth) Robins.
- 253. *Erigeron* cf. *uliginosus* Benth.
- 254. *Baccharis cassinaefolia* DC.
- 336. *Sigesbeckia cordifolia* H.B.K.
- 361. *Clibadium surinamense* L.
- 365. *Adenostemma laueia* (L.) Kuntze
- 400. *Baccharis decussata* (Klatt.) Hieron.
- 461. *Baccharis oblanceolata* Rusby
- 486. *Elephantopus mollis* H.B.K.
- 490. *Tagetes subulata* Cav.
- 494. *Clibadium surinamense* L.

Caracas, June 8, 1931

Mr. Ellsworth Killip,  
Division of Plants,  
U. S. National Museum,  
Washington, D.C.

Dear Mr. Killip:

I have indeed received Dr. Blake's letter and the new arrangement is quite satisfactory to me. Dr. Blake has not done any work on our plants for a very long time and has not even been able to name the Compositae.

No. 7032, is determined as Lantana trifolia L. and it was collected at Los Chorrros, in savannas, March 11, 1917. It was described as a low undershrub with lilac flowers.

No. 12541 is Coronopus didymus. I do not understand how you can have a Cassia under that number. 12548 is Cassia (Adipera) indecora; 12641 is a Cassia (Adipera); and also 12561, Cassia (Chamaecrista) sp. There is evidently a misreading somewhere.

No. 517 Jahn, is Veronica humifusa, collected by Jahn, and we have no Manettia under that number. No. 518 Jahn, is Taraxacum; there are too many Orchids to verify at this time whether we have any under the same number. By the way, we have quite a number of unnamed Orchids; would it not be possible to have them named by Dr. Ames or do you think it is better to send them to Kränzlin?

In a few days or maybe with this same mail, I may be able to send you a list of the numbers up to 8629.

I am sorry Delostoma is proving to be such a heavy proposition. Under the circumstances, the

Label with  
✓

little I did on that genus becomes insignificant, so  
you had better count me out as a collaborator.

I have already checked part of your long  
lists. In a few days I will write you about some of  
your determinations which I do not agree with.

Meanwhile, I remain

Yours sincerely

*A. Sittler.*

Myers

1277. *Echinochloa polystachya* (HBK) Hitchc.

Pitt.

6368. *Inularia arvensis* Pitt (type)

8300. *Protium avilense* Pitt (type)

8109. ~~Fava~~ *Fragiopsis papii* Pitt. type

7218. *Sponsoea pseudo-linum* Pitt.

7279. " " (type)

8297. *Piptadenia robusta* Pitt. (type)

7598. *Bauhinia morandina* " "

6269. *Bauhinia vitellina* Hieron.

8303. " "

8108. *Dipladenia bella* Pitt. (type)

7628. *Bradburya microcarpa* (Sch.)

7191. *Stillingia arborescens* Pitt (type)

## Allart

- 82- *Miconia tuberculata* (Tr.) Cogn. (corr.)  
 226- *Miconia tuberculata* (Tr.) Cogn. (corr.)  
 273- *Heliocarpus americanus* L. (corr.)

## Emilio Pittier

- 138- *Miconia tuberculata* (Tr.) Cogn.  
 152- " " " "

## Hermanos Cristianos

- 83- *Miconia rostrata* Cogn.  
 117- " " "

## Gehriger

- 351- *Vismia dealbata* H.B.K.  
 357- *Miconia rostrata* Cogn.

## National Geographic Society

- 8- *Phoradendron venezuelense* Trel.  
 32- *Schrankia leptocarpa* D.C.  
 63- *Grimaldia hispidula* (Vahl.) var. *fagonioides* (Benth.)  
 107- *Amarantus gracilis* Desf.  
 124- *Cyperus cayennensis* (Lam.) Britton  
 125- *Panicum barbinode* Trin.

These should  
be sent to  
party

130- *Panicum maximum* Jacq.

152- Not Euphorbiaceae; probably Convolvulaceae

162- *Solanum granuloso - leprosum* Dunal

138- *Euphorbia prostrata* Ait.

190- *Vismia cayennensis* Choisy

198- *Wedelia caracasana* D.C.

206- *Pithecolobium guaricense* Pittier

211- *Chamaecrista serpens* (L.) Greene

225- *Cyperus lugulae* Rottb.

226- *Croton chamaedryfolius* Griseb.

265- *Cyperus diffusus* Vahl.

272- Not Euphorbiaceae- Sympetal, pentamerous, 5 distinct carpels.

Polemoniaceae?

297- *Vismia latifolia* H.B.K.

302- *Vismia* aff. *japurensis* Reich.

307- *Andropogon leucostachyas* H.B.K.

331- *Vismia latifolia* H.B.K.

342- *Phyllanthus lathyroides* H.B.K.

373- *Vismia cayennensis* Choisy

403- *Bauhinia macrostachya* Benth.

~~fruit present,~~  
all ext.  
P. bark slide  
5/27/31

✓ Ext. or absent

Pittier

- \*5886- Miconia rostrata Cogn.
- 7338- Miconia rostrata Cogn.
- 7514- Vismia laxiflora Reich. vel aff.
- 9184- Vismia dealbata H.B.K. (corr.)
- 9558- Vismia dealbata H.B.K. (corr.)
- 9927- Grimaldia hispidula (Vahl.) (corr.)
- 10441- Miconia tuberculata (Tr.) Cogn. (corr.)
- 10582- Grimaldia hispidula (Vahl.)
- 10590- Miconia tuberculata (Tr.) Cogn.
- 10718- Rhamnaceae (corr.: not Achatocarpus)
- 10961- Vismia macrophylla H.B.K. (corr.)
- 11990- Rhamnaceae (corr.: not Achatocarpus)
- ✓ 12748- Vismia dealbata H.B.K.
- 12865- Miconia rostrata Cogn.
- 12971- Miconia tuberculata (Tr.) Cogn.

---

Saer

- 53- Vismia dealbata H.B.K.
- 655- Miconia tuberculata (Tr.) Cogn.
- 780- Vismia Hamani Blake

Jahn

- 1188- Grimaldia hispidula (Vahl.) (corr.)

17 March 1931  
orig. intended  
in O book  
5/27/31

Pittier

- 8108- *Dipladenia bella* Pittier sp. n.
- 9120- *Prestonia brachypoda* Blake
- 10085- *Lantana involucrata* L.
- 10260- *Lantana reticulata* Pers.
- 10665- *Hybanthus Ipecacuanha* (L.) Baillon
- 10718- *Achatocarpus nigricans* Triana
- 10838a- *Hybanthus Ipecacuanha* (L.) Baillon
- 11766- *Prestonia brachypoda* Blake
- 12016- *Pterolepis delicatula* Pittier sp. n.
- 12020- *Bacopa* (*Caconapea*)
- 12040- *Stemodia durantifolia* Sw.
- 12519- *Aniseia trichantha* Pittier
- 12556- *Dipladenia bella* Pittier
- 12778- *Echites discolor* Moritz ?
- 12905- *Escallonia tortuosa* H.B.K. (corr.)
- 13441- *Lantana trifolia* L.

Gehriger

- 46- *Escallonia tortuosa* H.B.K.
- 470- *Osteomeles ferruginea* (Pers.) H.B.K.
- 569- *Polypodium Phylliditis* L.
- 576- *Chamaedorea brevifrons* H. Wendl.

Saer

- 144- *Polypodium lycopodioides* L.  
297- *Polypodium thysanolepis* R. Br.?  
965- *Melochia hirsuta* Cav.

Holt

- 33- *Hyptis vilis* Kth. & Bouché  
387- *Polypodium aureum* L.

Allart

- 317- *Polypodium pectinatum* L.  
460- *Polypodium Phylliditis* L.

Grisol

- 37- *Stachytarpheta angustifolia* Vahl.

National Geographic Society

- 83- *Lantana alba* Mill.  
84- *Lantana Camara* L.  
88a- *Licania pyrifolia* Griseb.  
123- *Lantana Camara* L.  
141- *Lippia origanoides* H.B.K.  
142- *Hybanthus oppositifolium* (Roem. & Schult.)  
147- *Stachytarpheta cayennensis* Vahl.  
150- *Heliotropium indicum* L.  
151- *Piriqueta cistoides* (L.) Mey

These species  
rep. by  
paul

- 175- *Lantana canescens* H.B.K.  
210- *Tabebuia cassinoides* P. D.C.  
228- *Mabea piriri* Aubl.  
231- *Coutoubea*  
242- *Machaerium ferrugineum* Pers. var.?  
245- *Amphirrhox surinamensis* Eichl.  
269- *Echites trifida* Jacq.  
271- *Piper catalpifolium* H.B.K.  
299- *Ouratea spruceana* Engl.  
301- *Miconia inusitans* Pitt. sp. n.  
310- *Lisianthus*  
312- *Sipania glomerata* H.B.K.  
327- *Lisianthus*  
366- *Patrisia acuminata* Kze.  
380-) *Patrisia acuminata* Kze.  
413- *Davilla rugosa* Poir.

Plants collected by H. Pittier and associates

Det. N. Y. Botanical Garden

Melastomaceae (by H. A. Gleason)

11913. *Heterotrichum schlimii* (Naud.) Tr.  
12003. *Tibouchina barbiger*a Baill.  
12865. *Miconia rostrata* (Naud.) Cogn.  
12971. " "  
13020. " *ibaguensis* (Bonpl.) Tr.  
13134. " *fendleriana* Cogn.  
Saer. 402. *Heterotrichum macrodon* (Naud.) Pl.  
" 396. *Miconia stenostachya* DC.

1 Carbon  
Sent Pittier  
to Blake  
4/25/31

Miscellaneous (by A. C. Smith)

5871. *Ficus velutina* Willd.  
6119. *Cissampelos pareira* L.  
6185. *Ximenia americana* L.  
6190. *Coccoloba padiformis* Meissn.  
6231. *Myrica caracasana* H.B.K.  
6269. *Berberis discolor* Turcz.  
10519. *Coccoloba ramosissima* Lindau  
11182. *Gyrocarpus americana* Jacq.  
11712. *Nectandra pichurim* (H.B.K.) Nees  
12024. *Coccoloba caracasana* Meissn.  
12186. *Ficus gigantea* H.B.K.  
12323. *Phthirusa pyrifolia* (H.B.K.) Eichl.  
12421. *Ficus gigantea* H.B.K.  
12323. *Phthirusa pyrifolia* (H.B.K.) Eichl.  
12421. *Ficus gigantea* H.B.K.  
~~12865~~ 12738. " *velutina* Willd.  
12783. *Phthirusa theobromae* (Willd.) Eichl.  
~~12865~~ ~~xxx~~  
12886. *Alnus ferruginea* H.B.K.  
13055. *Clematis populifolia* Turcz. ex cher.  
13058. *Ficus antimanensis* Pittier  
13073. *Ficus prinoidea* H. & B.  
~~13134~~  
13228. *Cleome moritziana* Kl.  
13297. *Ficus prinoidea* H. & B.

*Aegiphila* (by H. N. Moldenke)

8257. *A. strigosa* Moldenke (type)  
8806. *A. variabilis* Moldenke  
10404. " "  
10626. " *integrifolia* (Jacq.) Jacks.  
10645. " *pendula* Moldenke (type)  
Jahn. 384. *A. longifolia* Turcz.  
Tejera 119. " *integrifolia* (Jacq.) Jacks.  
124. " "  
157, 168. *A. magnifocoides* Moldenke (157, type)

Det. Berlin ( R. Knuth)

11949. *Dioscorea costaricensis* Knuth  
12232. " *polygonoides* H. & B.  
Allart 20 51. *Oxalis pubescens* H.B.K.  
Saer 296. " *pentantha* Jacq.

Det. Field Museum (by P.C.Standley)

Holt & Gehriger

125. *Borreria verticillata* (L.) Mey.  
253. *Diodia hyssopifolia* (Willd.) C. & S.  
329. *Sipanea glomerata* H.B.K.  
335. *Isertia rosea* Spruce

Gehriger (Merida)

187. *Mirabilis expansa* (R. & P.) Standl.  
~~205. *Borreria laevis* (Lam.) Griseb.~~  
205. *Borreria laevis* (Lam.) Griseb.

with letter  
4 Fe '29

- 6075- *Sapium aucuparium* Jacq. (corr.)  
6310- " " " " "  
6361- " " " " "  
7191- *Sebastiania venezolana* Pax & Hoffm. (corr.)  
7682- *Ditaxis lancifolia* Schlecht. ♀ (corr.)  
7861- *Bernardia jacquiniana* Müell-Arg. (corr.)  
7912- *Sapium aucuparium* Jacq. "  
7935- " " " " "  
8102- *Tetrorchidium rubrivenium* Poepp. & Endl. ♂  
8109- *Fragariastrum Paxii* Pittier, sp. n.  
8164- *Caperonia palustris* (L.) St. Hil.  
8795- *Sapium aucuparium* Jacq. (corr.)  
9214- *Ditaxis lancifolia* Schlecht. ♂ (corr.)  
9580- *Bernardia corensis* (Jacq.) Muell.-Arg. (corr.)  
9581- " " " " " "  
10484- *Jatropha kunthiana* Müll.-Arg. "  
10550- *Croton chamaedryfolius* Griseb.  
10750- *Sapium paucistamineum* Pittier, sp. n.  
10931- *Mabea microcarpa* Pittier, sp. n. (corr.)  
11761- *Manihot remotiloba* Pittier sp. n.  
11802- *Sapium aucuparium* Jacq. (corr.)  
11832- *Sapium naiguatense* Pittier sp. n.  
12013- *Mabea longepedicellata* Pittier n. sp.  
12291- *Sapium aucuparium* Jacq. (corr.)

- 12331- *Sapium guaricense* Pittier, sp. n.  
12401- " *aucuparium* Jacq. (corr.)  
12495- *Croton chamaedryfolius* Griseb.  
12731- *Senecio formosus* H.B.K.  
13059- *Phaseolus gracilis* H.B.K.  
13062- *Phaseolus linearis* H.B.K.  
13080- *Salvia tenuistachya* Rusby  
13098- *Peirania Saeri* Rose  
13110- *Mabea occidentalis* Benth.  
13115- *Psidium Araça* Raddi  
13117- *Lantana achyranthifolia* Desf.  
13136- *Borreria*  
13148- *Marsypianthes hyptioides* Mart.  
13152- *Centropogon*  
13153- *Sobralia violacea* Linden  
13164- *Salvia palaeifolia* H.B.K.  
13168- *Naturstium officinale* R. Br.  
13170- *Drymaria paramorum* Blake  
13181- *Lobelia tenera* H.B.K.  
13189- *Erodium cicutarium* L'Hérit  
13217- *Equisetum bogotense* H.B.K.  
13264- *Ottoa*  
13296- *Eugenia*  
13310- *Salvia occidentalis* Sw.

- 13311- Boerhavia caribaea Jacq.  
 13317- Hemistylis macrostachya Wedd.  
 13320- Elaterium carthagenense Jacq.  
 13336- Casearia sylvestris Sw.  
 13353- Oenothera mollissima L.  
 13354- Veronica humifusa Dickson  
 13356- Nepogeton

Saer

- 92- Lantana achyranthifolia Desf.  
 191- Manihot filamentosa Pittier n. sp.  
 326- Piper tuberculatum Jacq.  
 354- Ditaxis lancifolia Schlechtd. ♂ (corr.)

Jahn

- 545- Hieronyma moritziana Müll.-Arg.  
 614- Senecio formosus H.B.K.  
 784- " " " " "  
 1000- Manihot meridensis Pittier

Hermanos Cristianos

- 53- Psidium (not Araça, corr.)

Padre Cornelio

- 99- Strubanthus

April 30<sup>th</sup> 1929.

ent. P. ent. 579(31)

- 7065- *Oxalis rhombifolia* Jacq.  
9443- *Oxalis avilensis* sp. n.  
9856- *Oxalis Barrelieri* Jacq.  
10443- " *Martiana* Zucc.  
10446- " *pubescens* H.B.K.  
11214- " *Martiana* Zucc.  
11226- " *rhombifolia* Jacq.  
11551- " *sepium* St. Hil.  
12267- " *corniculata* L.  
12710- *Hinterhubera columbica* Weddell  
12732- *Senecio formosus* H.B.K. ?  
12843- *Oxalis pentantha* Jacq.  
2 12889- *Gnaphalium purpureum* L.  
2 12952- " " "  
7 13079- *Verbesina caracasana* Rob. & Groom.  
13084- *Oxalis Barrelieri* Jacq.  
13111- *Bunchosia pilosa* H.B.K.  
13112- *Bunchosia lanceolata* Turcz. vel aff.  
13127- *Verbesina* sp.  
13137- *Calea*  
13169- *Oxalis glandulosa* (Knuth.)  
13175- *Achyrodine* vel *Gnaphalium*  
13177- *Aster marginatus* H.B.K.  
13190- *Hypochoeris sessiliflora* H.B.K.  
13205- *Aster marginatus* H.B.K.  
13243- *Hinterhubera* ?

13246- *Hypochoeris sessiliflora* H.B.K.

13251- *Verneria pygmaea* Hook. & Arn.

13256- *Senecio* (= Jahn 101)

13262- *Baccharis*

13266- *Erigeron*

13268- *Espeletia corymbosa* H.B.K.

13269- *Senecio formosus* H.B.K.

13275- *Senecio*

13278- *Hinterhubera columbica* Wedd.

13285- *Verneria pygmaea* Hook. & Arn.

13287- *Espeletia Moritziana* Sch.-Bip. ?

13293- *Oxalis pubescens* H.B.K.

13318- *Oxalis rhombifolia* Jacq.

13319- *Eupatorium vergasianum* D.C.

13343- *Oxalis meridensis* sp. n.

13344- *Jaegeria hirta* (Lag.) Less.

13352- *Hinterhubera colombica* Wedd.

Jahn

409- *Oxalis pubescens* H.B.K.

825- " " " " "

827- *Jaegeria hirta* (Lag.) Less.

1134- *Oxalis pubescens* H.B.K.

Allart

51- *Oxalis pubescens* H.B.K.

not  
recd



Caracas, December 8, 1928.

Dr. S. F. Blake, botanist,  
Office of Economic and systematic botany,  
U. S. Department of Agriculture,  
Bureau of Plant Industry,  
Washington, D.C.

Dear Dr. Blake:

Without news from you for a long time, I write to ask you kindly have a copy of the description of

Olmedia towarensis Klotzsch & Karst., in *Linnaea* 20:254. 1847.

" rigida Kl. & Karst., l. c.

made for me and sent at the earliest opportunity.

Of late, I have been working on Cestrum, with the following results:

- not yet sent in Pitt. hb. 5/8/31*
- Cestrum melanochloranthum Dunal - Jahn 811, 923; Pitt. 12911.  
" Diazae Pittier sp. n. - Pitt. 12919, type.  
" dubium Pittier sp. n. - Emilio H. Pittier 166, t.  
" salicifolium Jacq. - Allart 254  
" caloneurum Pitt. sp. n. - Pitt. 10045, type.  
" calycosum Pitt. sp. n. - Allart 480, type.  
" grande Pittier sp. n. - Pitt. 10393, "  
" paniculatum H. B. K. - Saer 162, type.  
" terminale (Dunal) Pitt. n. comb. - Pitt. 9200, 5925.  
" Moritzi Dunal - Pittier 12639.  
" nocturnum L. - Pitt. 5797 (?), 13029.  
" bigibbosum Pittier, sp. n. - Pitt. 9245, type.  
" amplum Pittier, sp. n. - Jahn 1075, type.  
" meridanum Pitt. sp. n. - Pitt. 12858, type.  
" Miersianum Wedd. - Jahn 767.  
" tenuiflorum H. B. K. - 5797

I have just received flowers of my nn. 5925 and 5797 and I am having dissections of them made. Later I will let you know what they are.

Yours sincerely

A. Pittier.

5761-	Boerhavia coccinea	Mill.	(corr. Berlin)
6219-	Caracasia tremadena	(Ernst) Szysz	( " " )
6298-	Neea anisophylla	Ernst	( " " )
6421-	Pisonia microphylla	Heimerl	(det. at Berlin)
6422-	Torrubia (Pisonia)	Pacurero Standl.	(corr. Berlin)
8061-	Stromanthe lutea	(Jacq.) Eichl.	
8837-	Pisonia ferruginea	Choisy	(corr. Berlin)
8857-	"	"	" "
9476-	Neea anisophylla	Ernst	(corr. Berlin)
10391-	"	"	" "
11869-	Stromanthe lutea	(Jacq.) Eichl.	" "
11965-	Phytolacca icosandra	L.	" "
12205-	Pisonia Pittieri	Heimerl	" "
12571-	Euphorbia cotinifolia	L.	" "
12595-	Bactris minor	Jacq.	det. Berlin
12670-	Alchemilla filicaulis	(n. sp. <i>Pittier &amp; M. Diaz</i> )	
12723-	Potentilla heterosepala	Fritsch.	
12892-	Marrubium vulgare	L.	
12926-	Alchemilla aphanoides	Mutis	
13009-	Miconia rubiginosa	D.C.	
13012-	Spilanthus		
13051-	Manettia calycosa	Griseb.	
13052-	Triumffeta semitriloba	L.	
13055-	Clematis floribunda	Tr. & Pl.	
13082-	Croton glandulosus	L.	

- 13100- *Abutilon permolle* G. Don  
 13126- *Solanum hirtum* Vahl  
 13155- *Clidemia hirta* (G. Don) Cogn.  
 13160- *Solanum mesopliarthrum* Bitter  
 13171- *Alchemilla tripartita* Ruiz & Pav.  
 13179- *Geranium chamaense* Pittier  
 13203- *Solanum fraximifolium* meridense Bitter & Pittier  
 13241- *Monochaetum meridense* Naudin  
 13245- *Chaetolepis alpestris* Triana  
 13255- *Valeriana phyllioides* (Turcz.) Briquet.  
 13257- *Geranium chamaense* Pittier  
 13286- *Valeriana parviflora* (Trev.) Hock.  
 13289- *Chaetolepis alpestris* Triana  
 13305- *Guarea trichilioides* L.  
 13313- *Solanum hirtum* Vahl.  
 13316- *Solanum fraximifolium* protoxanthum Bitter  
 13331- *Guarea trichilioides* L.  
 13359- *Heteropterys escalloniifolia* Juss. v. *ochinifolia* Ndzu.

Jahn

- 55- *Alchemilla equisetiformis* Trev.  
 56- " *polylepis* Wedd.  
 57- " *galioides* H.B.K.  
 58- " *hirsuta* H.B.K.  
 77- " *nivalis* H.B.K.

not  
 entered

- 609- Alchemilla tripartita Ruíz & Pav.  
733- " nivalis H.B.K.  
739- " tripartita Ruíz & Pav.  
1104- " polylepis Wedd.  
1176- " hirsuta H.B.K.

Gutzwiller

- 4- Alchemilla hirsuta H.B.K.  
20- " " " " "

- 8295 - Phyllanthus Niruri L.(corr).  
 9748 - Euphorbia Preslii Guss. Muell. (Corr.)  
 9835 - Euphorbia caracasana Muell. (corr.)  
 10182 - Euphorbia serpens H.B.K. (corr.)  
 10246 - Euphorbia cotinifolia L.  
 10333 - Acalypha microphylla Pittier  
 10395 - Acalypha arvensis (Corr.)  
 11134 - Acalypha falconiensis Pittier sp. n.  
 11414- Acalypha muelleriana Urban. (corr.)  
 11752 - Phyllanthus Niruri L.  
 12072 - Euphorbia guanarensis Pittier n. sp.  
 12129 - Acalypha bistipellata Pittier n. sp.  
 12427 - Euphorbia serpens H.B.K.  
 12571 - Euphorbia caracasana Muell. Arg. (corr.)  
 12700 - Euphorbia caracasana Muell. (Corr.)  
 12766 - Acalypha macrostachya B macrophylla (H.B.K.)Muell. Arg.  
 12797 - Phyllanthus Niruri L. (Corr.)  
 13314 - Acalypha heterodonta Muell. Arg.  
 13323 - Cestrum Moritzii Dunal

Jahn.

- 646 - Acalypha subvillosa Jacq.  
 976 - Euphorbia meridensis Pittier n. sp.

\* This no. is *Epilobium nemipolii* on Pittier's list

Saer

- 335 - Acalypha macrostachya B macrophylla (H.B.K.) Muell. Arg.  
 348 - Euphorbia heterophylla L. graminifolia (Engel.)

Holt

23 - Euphorbia caracasana Muell. (corr.)  
*but name is Boerhaavia*

All.

182 - Acalypha arvensis (Corr.)

414 - Euphorbia caracasana Muell. (corr.)

Octubre 31, 1930

H. Pittier

- 7135- *Heteropteris escalloniifolia* Juss. (corr.)  
 7609- *Calea caracasana* (Sch. Bip.) Blake "  
 8015- *Cissus erosa* Rich.  
 9307- *Sysirhynchium tinctorium* H.B.K. (corr.)  
 9698- *Cissus salutaris* H.B.K.  
 9841- *Cissus erosa* Rich.  
 10028- *Sysirhynchium micranthum* Cav.  
 10889- *Cissus erosa* L.C. Rich.  
 11049- *Seguiera macrophylla* Benth.  
 11233- *Aeschynomene americana* L. (corr.)  
 11644- *Parthenium hysterophorus* L.  
 12075- *Indigofera lespedezioides* H.B.K.  
 12099- *Thevetia nitida* (H.B.K.) D.C. (corr.)  
 12336- *Indigofera microcarpa* Desv.  
 12611- *Jacquinia caracasana* H.B.K.  
 12687- *Lepidium bipinnatifidum* Desv.  
 12716- *Ranunculus mandonius* Weddell  
 12733- No *Draba*, neither *Crucifera* (*Sympetalae*) (corr.)  
 12743- *Crotalaria nitens* H.B.K.  
 12830- *Calonyction aculeatum* (L.) House  
 12847- *Indigofera subulata* Vahl.  
 12866- *Aeschynomene americana* L.  
 12908- *Soliva anthemifolia* (A. Juss.) R. Br.  
 12953- *Cicer arietinum* L.  
 13121- *Echites trifida* Jacq.  
 13144- *Eriosema rufum* G. Don. (corr.)  
 13214- *Pernettya elliptica* D.C.  
 13227- *Monnina coriacea* Chodat  
 13264- *Ottoa oenanthoides* H.B.K., var. *major*  
 13267- *Elaphoglossum mathewsii* (Fee) Moore (corr.)  
 13271- *Urticaceae* (non *Labiata*)  
 13273- *Lepidium bipinnatifidum* Desv.  
 13281- *Ranunculus mandonius* Weddell. (corr.)  
 13348- *Eriosema crinitum* E. Mey (corr.)

Jahn

- 25- *Sysirhynchium iridifolium* H.B.K.?  
 521- *Ranunculus pilosus* H.B.K. (corr.)  
 801- *Lithospermum columbianum* Brand. (corr.)  
 804- *Monnina coriacea* Chodat  
 1120- *Berberis discolor* Turcz. (corr.)  
 1133- *Ranunculus pilosus* H.B.K.

Saer

- 55- Elaphoglossum tectum (Willd.) Moore
- 180- Crinum erubescens Ait.
- 322- Eleocharis geniculata (L.) R. Br.
- 334- Cyperus articulatus L.
- 374- Aeschynomene biflora Fawcett & Rendle
- 552- Cissus erosa Rich.

Gehriger

- 34- Monnina coriacea Chodat
- 34a-Monnina meridensis Pl. & Linden
- 38- Pernettya elliptica D.C. (corr.)
- 112- Elaphoglossum mathewsii (Fee) Moore
- 294- Aphelandra runcinata Klotsch. (corr.)
- 326a-Elaphoglossum dombeyanum H.B.K.

National Geographic Society

- 7- Indigofera tinctoria L.
- 10- Lawsonia inermis L.
- 36- Croton rhamnifolius H.B.K.
- 66- Lawsonia inermis L.
- 129- Amyris elemifera L.

Holt

- not rec.*
- 560- Kyllinga odorata Vahl.

Christ

- 76- Senecio formosus H.B.K.

P. Cornelio

- 43- Aeschynomene americana L.

Allart.

- 407- Sysirhynchium tinctorium H.B.K.

Hermanos Cristianos

- 84- Poeniculum graveolens L.

October 31, 1930

Rec. Pitt. bl.  
5/8/31

misrec.

- 5947 - *Clidemia plumosa* D.C.  
7181 - *Parathesis venezuelana* Mez.  
7196 - *Gesneria elatior* H.B.K. (corr.)  
7207 - *Parathesis venezuelana* Mez.  
7410 - *Clidemia ciliata* Cogn. (corr.)  
9246 - *Conomorpha peruviana* A. D.C. (corr.)  
9464 - *Parathesis venezuelana* Mez.  
9490 - *Cleome gigantea* L.  
10702- *Chamaecrista serpens* (Greene)  
11325- *Buchnera rosea* H.B.K.  
11385- *Clidemia plumosa* D.C.  
11593- *Clidemia guaicaipurana* Pittier  
11700- *Buchnera rosea* H.B.K.  
11714- *Buchnera lithospermifolia* H.B.K.  
11824- *Clidemia plumosa* D.C.  
12030- *Bacopa procumbens* (Mill.) Greenm.  
12714- *Castilleja nubigena* H.B.K. (corr.)  
12744- *Clidemia elata* Pitt. (corr.)  
12745- *Leandra lindeniana* Cogn.  
12754- *Gesneria spicata* H.B.K.  
12791- *Marcebia andicola* Naud.  
12792- *Clidemia rubra* Mart.  
12795- *Siphocampylus Planchonis* E. Wimm.  
12803- " " " "  
12806- *Clidemia towarensis* Pittier  
12842- *Stylosanthes sericeiceps* Blake  
12986- *Clidemia rubella* Pittier  
13017- *Miconia prasina* D.C.  
13020- *Clidemia virgata* Pittier  
13087- *Symbolanthus magnificus* Gilg.  
13116- *Veronica persica* Poir.  
13140- *Isoloma hirsutum* (H.B.K.) Regel.  
13218- *Eleocharis bonariensis* Nees.  
13254- *Castilleja nubigena* H.B.K. (corr.)  
13427- *Coronopus didymus* (L.) Smith.

N. G. S.

- 74- *Buchnera rosea* H.B.K. (corr.)  
268a- *Clidemia capillipes* (Triana) Cogn.  
282- *Miconia guianensis* (Aubl.) Cogn.  
287- *Clidemia naevula* Triana  
290- *Miconia pseudo-aplostachya* Cogn.  
294- *Tococa guyanensis* Aubl.  
317- *Clidemia rubra* Mart.  
318- *Clidemia naevula* Triana  
320- *Clidemia novemnervia* (D.C.) Triana  
325- *Miconia rubiginosa* (Bonpl.) D.C.  
332- *Paullinia*  
334- *Clidemia novemnervia* (D.C.) Triana  
340- *Tococa guyanensis* Aubl.  
353- *Myrmidone macrosperma* Mart.  
372- *Clidemia novemnervia* (D.C.) Triana, var. *depauperata* Pittier.

Röhl.

18- *Miconia arbutifolia* (Naud.) Cogn.

Jahn

87- *Castilleja nubigena* H.B.K. (corr.)  
618- *Veronica persica* Poir  
623- " " "  
720- *Castilleja nubigena* H.B.K. (corr.)  
750- *Eryngium Humboldtii* Delar.  
794- *Castilleja nubigena* H.B.K. (corr.)  
834- " " " "  
1315- " " " "

Gehriger

31- *Castilleja nubigena* H.B.K. (corr.)  
334- " " " "  
349- *Clidemia elata* Pitt. (corr.)

Hermanos Cristianos

101- *Conomorpha glabra* Mez. (corr.)  
110- " " " "  
153- *Clibadium caracasenum* D.C. (corr.)

Saer

341- *Crataeva Tapia* L.  
669- *Pilea involucrata* (Sims) Urban.

Allart

3- *Leandra Fendleri* Cogn.

Holt

46- *Isoloma hirsutum* (H.B.K.) (corr.)

Christ

104- *Castilleja nubigena* H.B.K. (corr.)

Gutzwiller

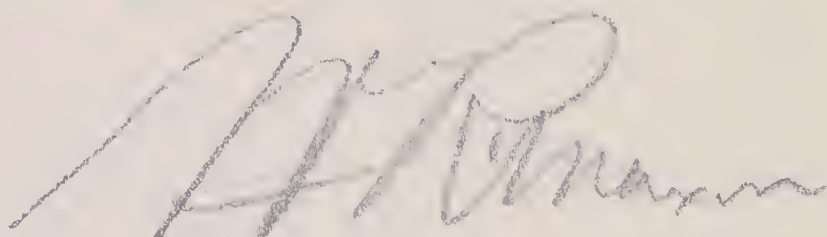
7- (Composita!) (corr.)

November 24, 1930.

Memorandum for Dr. Blake:

Several Honduras orchids collected by Mr. Pittier are identified by Oakes Ames as follows:

8455. *Pleurothallis brighamii* S. Wats. probably.  
8456. " *ovatiloba* Ames & Schweinf.  
8471. *Epidendrum cochleatum* L.  
8497. " *ionophlebium* Reichb. f.  
8503. " *tessellatum* Batem.



~~to~~  
19 Jan 1931  
Her. Pitt. notatool  
5/8/31

- 6249- *Gaiadendron punctatum* (H.B.K.) Don. (det. at Berlin)  
9929- *Stromanthe latea* (Jacq.) Eichl.  
10044- *Conomorpha glabra* Mez. (corr.)  
10854- *Serjania caracasana* Willd. f. *puberula*  
11418- *Browallia elata* L. (det. at Berlin)  
11542- *Brachistus rhomboideus* (H.B.K.) Miers. (det. at Berlin)  
11561- *Capsicum baccatum* L. (det. at Berlin)  
11587- *Ocotea glomerata* (Nees) G. Mez (det. at Berlin)  
11612- *Cyperus Mutisii* (H.B.K.) Griseb. (corr. by Kukenthal)  
11659- *Amyris pinnata* H.B.K.  
12030- *Bacopa chamaedryoides* (H.B.K.) Weltst. (det. at Berlin)  
12302- *Phthirusa pirifolia* (H.B.K.) Eichl. (det. at Berlin)  
12325- *Phoradendron venezuelense* Trel. (det. at Berlin)  
12429- *Mascagnia nervosa* Naud.  
12438- *Ocotea glomerata* (Nees) G. Mez. (det. at Berlin)  
12525- *Maranta arundinacea* L.  
12542- *Commelina robusta* Kth.  
12545- *Cyperus Mutisii* (H.B.K.) (corr. by Kukenthal)  
12575- *Gaudichaudia albida* Schl. & Cham. (typica, f. *vulgaris* Naud.)  
(det. Naud.)  
12578- *Serjania caracasana* Willd.  
12596- *Hydrolea minima* Brand. (det. at Berlin)  
12614- *Tetrapterys anisoptera* Juss. (Naud det.)  
12660- *Ditremexa* (Cassia) *hirsuta* (L.) Britt. & Rose  
12783- *Phthirusa pirifolia* (H.B.K.) (det. at Berlin)

12881- *Blecharis acicularis* (L.) R. Br. (corr. by Kukenthal)

13056- *Arthrostemma alatum* Triana

13068- *Stromanthe lutea* (Jacq.) Eichl.

13112- *Bunchosia Lindenii* Juss. var. *mexicana* Naud. (corr. Naud.)

13138- *Serjania communis* Camb.

13292- *Monochaetum bracteosum* Pitt.

13337- *Phoebe cinnamomifolia* Nees

Saer

149- *Euphorbia heterophylla* L.

375- *Euphorbia heterophylla* L.

547- *Acrotis* sp.

652- *Polygala angustifolia* St. Hil.

Gehriger

~~423~~ 423- *Miconia sylvicola* Pitt. n. sp.

471- *Grammadenia hexamera* Pitt.

479- *Miconia theaezans* Cogn.

H. G. S.

195- *Rhynchanthera grandiflora* D.C.

263- *Acrotis indecora* Triana

328- *Desmoscelis villosa* Naud.

Jahn

997- *Cavendishia cordifolia* (H.B.K.)

Allart

308- *Miconia lonchophylla* Naud.

not rec

Hermanos Cristianos

166- Hyptis vilis Kth. & Bouch.

PLANTS COLLECTED BY H. PITTIER AND ASSOCIATES  
Det. N. Y. Botanical Garden.  
Melastomaceae (by H. A. Gleason)

Bloche's copy  
Rec. in Pitt. ~~list~~  
to list, unless  
noted otherwise  
5/8/31

11913. *Heterotrichum schlimii* (Naud.) Tr.  
12003. *Tibouchina barbiger*a Baill.  
12865. *Miconia rostrata* (Naud.) Cogn.  
12971. " "  
13020. " *ibaguensis* (Bonpl.) Tr.  
13134. " *fendleriana* Cogn.  
Saer. 402. *Heterotrichum macrodon* (Naud.) Pl.  
" 396. *Miconia stenostachya* DC.

not rec. in  
Pitt.

Miscellaneous (by A. C. Smith)

5871. *Ficus velutina* Willd.  
6119. *Cissampelos pareira* L.  
6185. *Ximenia americana* L.  
6190. *Coccoloba padiformis* Moissn.  
6231. *Myrica caracasana* H.B.K.  
6269. *Berberis discolor* Turcz.  
10519. *Coccoloba ramosissima* Linden  
11182. *Gyrocarpus americana* Jacq.  
11712. *Nectandra pichurim* (H.B.K.) Nees  
12024. *Coccoloba caracasana* Moissn.  
12186. *Ficus gigantea* H.B.K.  
12323. *Phthirusa pyrifolia* (H.B.K.) Eichl.  
12421. *Ficus gigantea* H.B.K.  
12738. " *velutina* Willd.  
12783. *Phthirusa theobromae* (Willd.) Eichl.  
12886. *Alnus ferruginea* H.B.K.  
13055. *Clematis populifolia* Turcz. ex char.  
13058. *Ficus antimanensis* Pittier  
13073. *Ficus prinoides* H. & B.  
13228. *Oleome moritziana* Kl.  
13297. *Ficus prinoides* H. & B.

not rec.  
Pitt.

*Aegiphila* (by H. H. Moldenke)

8457. *A. strigosa* Moldenke (type)  
8806. *A. variabilis* Moldenke  
10404. " "  
10626. " *integrifolia* (Jacq.) Jacks.  
10645. " *pendula* Moldenke (type)  
Jahn. 384. *A. longifolia* Turcz.  
Tejera 119. *A. integrifolia* (Jacq.) Jacks.  
134. " "  
157. " *magnifocoides* Moldenke (type)  
168. " "

not recorded

not recorded

Det. Berlin (R. Knuth)

11949. *Dioscorea costaricensis* Knuth  
12232. " *polygonoides* H. & B.  
Allart 51. *Onalis pubescens* H.B.K.  
Saer. 296. " *pentantha* Jacq.

Det. Field Museum (by P. C. Standley)

Holt & Gehriger

125. *Borreria verticillata* (L.) Moy.  
253. *Diodia hyssopifolia* (Willd.) C. & S.  
329. *Sipanea glomerata* H.B.K.  
335. *Isertia rosea* Spruce

Gehriger (Merida)

187. *Mirabilis expansa* (R. & P.) Standl.  
205. *Borreria laevis* (Lam.) Griseb.

not  
rec.

22 N' 28  
Ent. Pitt. ent  
5/9/31

Noviembre 22, 1928.

- 5915 - *Jacquemontia hirsuta* Choisy (det. at Berlin)
- 6024 - *Monochaetum hirtum* (Karst.) Tr. (corr.)
- 6244 - *Symplocos* sp. (corr.) det. at Berlin.
- 6261 - *Monochaetum lindenianum* Naud. (corr.)
- 6279 - *Monochaetum humboldtianum* Hook. (corr.)
- 8372 - Not *Rubus bogotensis* H.B.K. (corr.)
- ~~9524b~~ - *Miconia laevigata* D.C.
- 9562 - *Solanum mesopliarthrum* Bitter (corr.)
- 10855 - *Aphelandra pulcherrima* H.B.K.
- 11063 - *Miconia laevigata* D.C.
- 11213 - *Aphelandra pectinata* D.C. ?
- 11642 - *Ipomoea purpurea* Lam. (corr.) det. at Berlin.
- 11691 - *Combretum* aff. *Palmeri* Rose (det. at Berlin)
- 12084 - *Combretum secundum* Jacq.
- 12125 - *Hedyosmum brasiliense* Mart.
- 12210 - *Tetrapterys discolor* (Mey.) D.C. & *andina* Ndz. (Ndz. det.)
- 12234 - *Banisteria cornifolia* (Kth.) Spreng. var. *maracaybensis* (Juss.) Ndz. (Niedenzu det.)
- 12574 - *Ficus urbaniana* Warb. -
- 12669 - *Loeselia glandulosa*
- 12717 - Not *Isoetes* but *Pilularia* (corr.)
- 12738 - *Ficus velutina* H.B.K. var. *glabra*
- 12770 - *Ficus prinoides* H. & B. - Uvito
- 12782 - *Ficus urbaniana* Warb.
- 12799 - *Clidemia ciliata* (D. Don.) Cogn.

22 N' 28

12959 - *Clidemia ciliata* (D. Don.) Cogn.

13001 - *Inga punctata* Willd.

13002- *Inga villosissima* Benth.

13003 - *Inga edulis* Mart.

13004 - *Inga punctata* Willd.

Allart.

3 - *Leandra*

17 - *Clidemia ciliata* (D. Don.) Cogn.

97 - *Miconia ulmarioides* Naud.

111 - *Rubus floribundus* H.B.K.

158 - *Miconia theaezans* Cogn.

159 - *Miconia multinervulosa* Cogn.

168 - *Rubus floribundus* H.B.K.

260 - *Aphelandra tetragona* (Vahl.) Nees.

298 - *Poikila canthus* ? (corr)

305 - *Aphelandra tomentosa* Lindau

309 - *Rubus floribundus* H.B.K.

Jahn.

700 - *Synplocos rigidissima* Brand (corr.)

1235 - *Torrubia Pacurero conglomerata* Brand.

1275 - *Torrubia Pacurero* (H.B.K.) Standley.



- X 6004- *Humboldtiella ferruginea* (H.B.K.) Harms = *Robinia ferruginea* Harms.
- X 7628- *Bradburya macrocarpa* (Benth.)
- 8980- *Machaerium latialatum* Pittier
- 9007- *Machaerium Moritzianum* Benth.
- 9078- *Coursetia arborea* Griseb.
- 9148- *Machaerium guaremalense* Pittier
- 9159- *Humboldtiella ferruginea* (H.B.K.) Harms
- 9196- *Cardiospermum grandiflorum* Sw. f. 2 *elegans*, (det. Radlkofer.)
- 9413- *Coursetia arborea* Griseb.
- 10310- *Humboldtiella ferruginea* (H.B.K.) Harms
- 10375- *Humboldtiella ferruginea* (H.B.K.) Harms
- 10510- *Machaerium cultratum* Pittier
- 10627- *Bradburya brasiliana* O. Ktze (corr.)
- 10656- *Bradburya brasiliana* O. Ktze (corr.)
- 10780- *Coursetia arborea* Griseb.
- 10853- *Machaerium truxillense* Pittier
- 11051- *Bradburya brasiliana* O. Ktze (corr.)
- 11447- *Coursetia arborea* Griseb.
- 11633- *Cupania americana* L. - (det. Radlkofer.)
- 11657- *Machaerium latialatum* Pittier - 9a *hemisporitis* (by an X)
- 11719- *Allophylus occidentalis* (Sw.) Radlk. !
- 11764- *Diphysa senmoides* Benth.
- 11904- *Cracca* or what is it? Please name.
- 11956- *Humboldtiella ferruginea* (H.B.K.) Harms

earlier  
but sent  
me!  
I found as a  
ferr

Plantae Allartianae

✓  
Ent. P. List  
5/9/31

- 12- *Tillandsia recurvata* L.  
35- *Trimezia jamaicensis* Herb.  
99- *Gaultheria glabra* D.C.  
101- *Bomarea acutifolia* Herb.  
121- *Sclerothria jasciculata* Presl.  
131- *Gymnosiphon suaveolens* (Karst.) Urb.  
X Not 134- *Polygala paniculata* L.  
124- *Sanicula Liberta* Cham. & Schlutht.

Plantae Saerianae

- 35- *Piper tuberculatum* Jacq.  
199- *Piper tuberculatum*

Plantae Pittierianae

- X 7593- *Piper peltatum* L.  
10937- *Piper tuberculatum* Jacq.  
11459- *Piper tuberculatum* Jacq.  
11532- *Petraea glandulosa* Pittier  
11540- *Gayodes sessilifolia* Presl.  
11543- *Commelina elegans* H.B.K.  
11550- *Spananthe paniculata* Jacq.  
11569- *Plumbago scandens* L.  
11577- *Trimezia martinicensis* Herb.  
11578- *Hypoxis decumbens* L.  
11595- *Anoda hastata* Cav.  
11600- *Sauvagesia erecta* L.  
11601- *Arenaria lanuginosa* (Michx.) Rohrb.  
11606- *Banara guianensis* Aublet.

2 ✓  
P.

- X 6324- *Bromelia chrysantha* Jacq. (corr. Harms det.)  
X 8126- *Anaectocalyx latifolia* Cogn.  
✓ 9695- *Bauhinia Bredemeyeri* Vog. ?  
✓ 10385- *Pitcairnia orchidifolia* Mez. (corr. Harms det.)  
10867- *Bauhinia macrostachya* Benth. (corr.)  
11301- *Bauhinia macrostachya* Benth. (corr.)  
11690- *Byrsonima verbascifolia* Rich. var. *villosa* (Griseb.) f. *spathulata* Ndz. (Ndz. det.)  
11716- *Byrsonima crassifolia* H.B.K. var. *typica* f. *cubensis* Ndz. (Ndz. det.)  
✓ 11762- *Banisteria cristata* Gris. (det. Ndz.)  
✓ 11798- *Banisteria cristata* Gris. (det. Ndz.)  
11806- *Erythroxyton havanense* Jacq. var. *continentis* Schulz (O.E. Schulz det.)  
✓ 11932- *Erythroxyton gracilipes* Peyristsch (O.E. Schulz det.)  
12194- *Bauhinia glandulosa* (H.B.K.) D.C. (corr.)  
Jahn 1288- *Bauhinia splendens* H.B.K.  
Allart 91- *Palicourea quercetifolia* Sch. & Kr.  
Saer 183- *Heteropteris escalloniifolia* Juss. var. *jussieuana* Ndz. (Ndz. det.)

Diciembre 15, 1926.

- ✓
- 11607- *Passiflora foetida* L.  
11608- *Hypericum thesiifolium* H.B.K.  
11609- *Koellikeria argyrostigma* (Hook.) Regel  
11611- *Schoenocaulon officinali* A. Gray  
11618- *Tribulus maximus* L.  
11620- *Zizyphus mauritiana* Lam.  
11629- *Malva sylvestris* L.  
11833- *Piper smilacifolium* H.B.K.  
11873- *Piper aduncum* L.



- 11959- *Nissolia fruticosa* Jacq.
- 11994- *Bradburya virginiana* - Zapatico de la reina de montaña.
- 11999- *Phaseolus semierectus* L.
- 12038- *Cardiospermum grandiflorum* Sw. f. 2. det. Radlkofer
- 12044- *Serjania caracasana* W. f. 2. det. Radlkofer
- 12064- *Eriosema rufum* G. Don.
- 12073- *Licania Triuva* Cham. et Schleichd. (det. Radlkofer)
- 12074- *Machaerium humboldtianum* Vogel
- 12095- *Serjania maxicana* W. ! - (det. Radlkofer)
- 12113- *Matayba scrobiculata* (Kunth) Radlk. (det. Radlkofer)
- 12237- *Bradburya pascuorum* (Mart.) O. Kze
- 12245- *Bradburya* Perhaps new !
- Jahn 473- *Machaerium Moritzianum* Benth. - ~~*Machaerium Moritzianum*~~
- " 1197- *Coursetia arborea* Griseb.
- " 1313- *Indigofera lespedezioides* H.B.K.- N.v. Juan Zamora.
- Allart- 208- *Bradburya virginiana* O. K. (corr.)
- E. Pittier 70- *Machaerium latialatum* Pittier
- Saer - 36- *Cracca* - or what is it ? Please name.
- " 230- *Coursetia ? arborea* Griseb.
- " 247- " " " "

Enero 15, 1927.

Caracas, February 5, 1926.

Dr. S. F. Blake, botanist,  
Bureau of Plant Industry,  
Washington D.C.

Dear Dr. Blake:

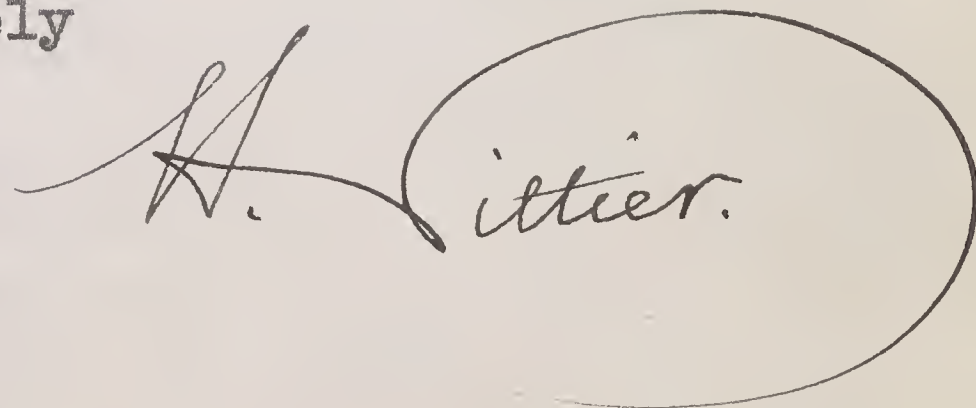
The necessity of having the botanical names of certain Capparidaceae so as to be able to use their common names in the preparation of my book on the useful plants of Venezuela made me study that family a little. I have prepared keys of the species of Cleome and Capparis reported so far from Venezuela and revised with their help all the material at hand. I send you inclosed copies of the keys, and in the list of names also inclosed you will find the species we have here in our herbarium. As I have changed some names which had perhaps been sent by you, I shall be thankful if you will have a look at the family and tell me where I may have erred. I could not place my n° 9490 (Cleome?) on account of our specimen being not very good. If you do not have a sufficiently good specimen to do better than I did, let me know. I remember exactly where the plant grows and I will go for it in April.

I am also puzzled with P. 7551 and A 105. To all appearances they belong to Gaudichaudia, but the genus has never been reported from Venezuela, and then my specimens do not correspond to any of the descriptions I have at hand. The two long, vermiform glands at the base of the leafblades do not seem to belong to the genus. What do you do with these things? In the same family, my n° 11484 is not Stigmaphyllon fulgens and I cannot decide to which species of Bunchosia Jahn n° 1194 does belong.

I may send you another list of names next week. Since I wrote you my last note, I received a letter from poor Safford dated Jan. 5th. When signing he added the following P.S.: Please pardon this short note. I am not very well to-day. Siempre tu amigo W. E. S.! If I am not mistaken, he died on the 10th.

Yours sincerely

HP/LCB.

 W. E. Safford

Jan. 30, 1926

Capparis

Capparis Breynia L. - 10414; 7737, olivo; 8629; J. 752.

coccolobifolia Mart. - 11446

cynophallophora L. - 7359; 10406; 11759; Dr. L. Alvarado s.n.:  
vela de muerto, rio Unare, Guárico

linearis Jacq. - S. 28.

tenuisiliqua Jacq. - 7689; 8809; 9077; 10308; J. 548.

verrucosa Jacq. - 7764; 10277; 11673; S. 275, Mamatete

sp, nov. - (material imperfect) - 10479, Olivo; S. 97,

olivo negro

hojas ovales, anchas, truncas o emarginadas

en la base; emarginadas en el ápice

ce

3. C. coccolobifolia Mart

Hojas elípticas, mas o menos angostas,

casi siempre atenuadas hacia el ápice

Baya ovoides, bruscamente contraída

en el estípite, este largo de 6.5

7.5 cm.

4. C. amplissima Lam.

Baya lineal-cilíndrica, el estípite lar-

go de 3,5 a 6.5 cm.

5. C. cynophallophora L.

Sépalos uniseriados

Estípulas presentes; indumento sencillo o nulo; cá-

liz abierto en estivación (Capparidastrum)

Hojas e inflorescencias pubescentes; pétalos ci-

liados en la margen; baya lineal toru-

losa

6. C. tenuisiliqua Jacq.

Jan. 30, 1926

Capparis

Sépalos biseriados; baya usualmente alargada; escamas discoideas a menudo presentes; indumento nulo o sencillo (Cynophalla)

Carpóforo brevísimo; flores pequeñas; hojas lineales, lucientes por encima, con márgenes revolutas, sin escamas en la cara inferior; baya torulosa;

subsesil

1. C. linearis Jacq.

Carpóforo alargado

Ramitas y hojas mas o menos pubescentes 2. C. verrucosa Jacq.

Ramitas y hojas glabérrimas

Hojas ovales, anchas, truncas o emarginadas en la base; emarginadas en el ápice

3. C. coccolobifolia Mart

Hojas elípticas, mas o menos angostas, casi siempre atenuadas hacia el ápice

Baya ovoidea, bruscamente contraída en el estípote, este largo de 6.5

7.5 cm.

4. C. amplissima Lam.

Baya lineal-cilíndrica, el estípote largo de 3.5 a 6.5 cm.

5. C. cynophallophora L.

Sépalos uniseriados

Estípulas presentes; indumento sencillo o nulo; cáliz abierto en estiveción (Capparidastrum)

Hojas e inflorescencias pubescentes; pétalos cilíndricos en la margen; baya lineal torulosa

6. C. tenuisiliqua Jacq.

Hojas e inflorescencias glabras; pétalos glabros;

baya subglobosa

7. C. Pachaca H.B.K.

Estípulas nulas

Sépalos abiertos en la estivación

Bayas lineales; torulosas; largas hasta de 30 cm., hojas oblanceadas, atenuadas hacia la base; glabras por encima, escamosas por debajo (Breyniastrum) 8. C. Breynia L.

Bayas globosas; hojas ovales u oval-elípticas, redondeadas o subtruncas en la base, glabras y lustrosas por encima; estrellado-pubescentes por debajo (Calanthe)

9. C. stenosepala Urb.

Sépalos valvados y cerrados en la estivación;

hojas siempre argenteo-escamosas por debajo

(Quadrella)

Alabastro subgloboso y obtuso; ovario sesil o subsesil; ramitas surcadas y angulosas

Hojas oval-oblongas; ovario sesil; pétalos volviéndose morados con la edad

10. C. odoratissima Jacq.

Hojas lineal oblongas o lineales;

ovario subsesil; pétalos blan-

cos

11. C. (S. 97; P. 10479)

Alabastro triquetro, apiculado; ovario es-

tipitado

Hojas oblongo-lanceoladas; baya lar-  
guísima, escamosa con el estípite

glabro

12. C. jamaicensis Jacq.

Hojas elípticas o lanceadas; baya

tomentosa-escamosa, así como el es-

típite

13. C. intermedia H.B.K.

Jan. 30, 1926.

Cleome

Plantas fruticosas, inermes; hojas con 5-11 segmentos; pétalos oblongos, atenuados hacia la base; ovarios estipitados; cápsula (silicua,) varias veces más larga que ancha (Fruticosae)

Silicuas glabras o apenas puberulosas; ramas ebracteadas; semillas casi lisas; hojas velludas, por debajo principalmente, y con 7 segmentos

1. Cl. gigantea L.

Silicuas velludo-glandulosas o simplemente velludas

Estigma soportado sobre un estilo largo y filiforme; hojas (de 5-7 segmentos) retrosetulosas en la cara superior, ferrugineo-hispidas por debajo

2. Cl. stylosa Eichl.

Estigma sesil o subsesil; hojas (de 7-5 segmentos) velludo-tomentosas

3. Cl. moritziana Kl.

Plantas herbáceas o sufruticosas; hojas con 3-7 segmentos; pétalos distintamente unguiculados; silicuas glabras o apenas pubérulas (Herbaceae)

Carpóforo mucho más largo que el pedúnculo

Planta aculeada; a veces hasta en los nervios de las hojas; silicua glabra o viscosa;

flores más o menos rosadas

4. Cl. spinosa L.

Planta inermes; flores blancas

5. Cl. pubescens Sims.

Carpóforo más corto que el pedúnculo;

Planta inermes, velludo-glandulosa (pero

no glutinosa); hojas medias con 5 segmen-  
tos

6. Cl. pilosa Benth.

Planta aculeada en los nudos y sobre los  
peciolos, mas o menos velludo-glandulosa;

hojas de 3-5 segmentos

7. Cl. psoraleaeefolia  
D.C.

Caracas, January 19, 1931

Dr. S. F. Blake,  
Office of Economic and Systematic botany,  
Bureau of Plant Industry,  
Washington, D.C.

Dear Mr. Blake:

Enclosed I send you a few determinations. Since July I have not heard from you. Have you completely given up the Venezuelan plants? If not, please send me at your earliest opportunity a copy of the original description of Echites chlorantha Schlechtld., I cannot see on the named specimens we have here the difference with E. trifida, except that the leaves are more roundish.

Hoping you are well and still hard at work,

I remain

Yours sincerely

*H. Pittier*

Caracas, October 31, 1930

Dr. S. F. Blake,  
Office of Economic and Systematic botany,  
Bureau of Plant Industry,  
Washington, D.C.

Dear Dr. Blake:

It is quite a time since I have not heard from you. I expect that you have now come back from your vacations and that you are again hard at work. I send you inclosed a few determinations which I hope may prove useful. I am trying to get rid of quite a lot of unnamed Melastoms, among which there is a number of new things. Curiously enough, those brought by Holt from the Alto Orinoco seem to belong all to known species.

What about the Compositae? Could you help me in placing the larger part of those collected by Gehriger? I do not expect there are many undescribed species among them. You know also that any names you send are welcome.

Hoping to hear from you soo, I remain

yours sincerely

*A. Pittier.*

Caracas, July 27, 1930

Dr. S. F. Blake,  
Bureau of Plant Industry,  
United States Department of Agriculture,  
Washington, D.C.

Dear Dr. Blake:

I have received your last list of identifications and I am very thankful for it. Little by little we are getting to the end of those Compositae of former collections which had not been named.

I thank you also for the descriptions of Berberis. I have not had time so far to try to identify the Venezuelan species we have in our herbarium. I suspect that among the species described by Hieronymus and others several will have to be reduced to the rank of synonyms. The same is probably the case with several supposed species of Securidaca. I have not been able to identify my Venezuelan species. The specimens at hand I have keyed easily taking the flower and fruit characters, but as the old descriptions do not contain details as to these parts and the characters derived from the leaves are very uncertain and mixed up, it is not possible to establish relations between the specimens and those old species. Moreover I think I have one or two new species.

As you say, the specimens collected by Saer are not always very good. His last collections, however, have improved very much. I understand he wanted to make a general study of the flora of the State of Lara and for this reason he has been collecting more actively of late. But I am told that he is to be married in these days and will come and live near Valencia, which will necessary be the end of his work in Lara.

With regard to Gehriger's plants, I am going to send you a first lot of them, as it seems to me that they are a necessary complement to the other col-

lections from Venezuela already in the herbarium. In general, the specimens are very good and complete and the collection is especially rich in Compositae.

Inclosed you will find the data for numbers 13342 to 13345. ✓

Wishing you much enjoyment in your vacation,  
I remain

Yours sincerely

*A. Pittier.*

- 10887- *Rhabdadenia* sp. nov. ?  
 10895- *Odontadenia speciosa* Benth.  
 10896- *Souroubea guianensis* Aubl.  
 10922- *souroubea guianensis* Aubl.  
 10929- Non est *Chrysochlamys* - What is it?  
 10931- *Mabea lucida* Pax & K. Hoffm.  
 10961- *Vismia macrophylla* H. B. K.  
 11092- *Prestonia* (*haemadictyon*) sp. nov. ?  
 11116- *Malvaviscus* sp. n. ?  
 11136- *Abutilon*  
 11150- *Buettneria catalpifolia* Jacq.  
 11155- *Buettneria catalpifolia* Jacq.  
 11175- *Julocroton* e' sect. *Oligonychia*  
 11186- *Bromelia lasiantha* Willd.  
 11194- *Melochia*  
 11216- *Meibomia uncinata* (Jacq.) O. Ktze.  
 11243- *Clusia minor* L.  
 11328- *Mimosa polycarpa* Kunth.  
 11330- *Phaseolus semierectus* L.

Jahn, Plants of Venezuela

- 332- *Taonabo brasiliensis* (Cambess) ?  
 470- *Cybianthus venezuelanus* Mez.  
 526- *Clusia*  
 698- *Gaultheria glabra* D. C.

- 700- *Eurya* aff. *roraimensis*
- 955- *Gaultheria strigosa* Benth. ?
- 980- *Marcgravia polyantha* Delp.
- 995- *Gaultheria coccinea* (Aubl.) H. B. K.
- 1070- *Hypericum brathys* Juss.
- 1110- *Epilobium Bonplandianum* H. B. K. (syn.?)
- 1262- *Jussiaea suffruticosa villosa* (Lam.);
- 1285- *Psychotria lupulina* Benth.

Emilio Pittier, Plants of Venezuela

- 7- *Jatropha gossypifolia* L.
- 55- *Abutilon stenopetalum* Garcke
- 68- *Acalypha cuspidata* Jacq.
- 118- *Didymopanax glabratum* (H. B. K.)

Saer, Plants of Venezuela

- 34- *Paullinia fuscescens* H. B. K.
- 65- *Malvaviscus arboreus* Cav.
- 94- *Croton ovalifolius* Vahl.

Pittier, Plants of Venezuela

with letter 24/1/24  
Ent Plant 5/9/31

- 6244- Eurya aff. roraimensis  
6431- Thespesia populnea (L.) Soland.  
7181- Ardisia or Parathesis? - Please give a name  
7207- Ardisia or Parathesis? -  
7265- Jussiaea peruviana L.  
7369- Clusia  
7551- Gaudichaudia  
7592- Abutilon stenopetalum Garcke.  
8055- Clusia  
8086- Cybianthus venezuelanus Mez.  
8313- Rapanea ferruginea (R. & P.) Mez.  
8847- Actinostemon concolor (Spreng.) Mueller  
8926- Odontadenia speciosa Benth.  
9091- Bromelia lasiantha Willd.  
9236- Heliocarpus sp. nov. ?  
9387- Didymopanax glabratum (H. B. K.)  
9464- Ardisia or Parathesis? - Please give a name  
9624- Clusia minor L.  
9710- Sida rhombifolia L.  
9730- Echites chlorantha Schlecht.  
9777- Clusia  
9782- Hippocratea volubilis L.  
9817- Sida anomala St-Hil.  
10044- Grammadenia sp. nov. Sect Cybianthopsis?  
10131- Cybianthus venezuelanus Mez.

- 10233- *Malvastrum spicatum* (L.) Gray  
10293- *Sida* near *savannarum*  
10351- *Dalechampia scandens* L.  
10395- *Acalypha polystachya* Jacq.  
10482- *Sida* near *savannarum*  
10536- *Buettneria*  
10643- *Pavonia sidaefolia* H. B. K.  
10653- *Waltheria involucrata* Benth.  
10658- *Corchorus pilobolus* Link.  
10659- *Wissadula pleriplocifolia* Presl.  
10662- *Hibiscus furcellatus* Desv.  
10685- *Sida ciliaris* L.  
10699- *Sida angustissima Moritziana* K. Sch.  
10713- *Tragia volubilis* L.  
10715- *Pavonia sidaefolia* H. B. K.  
10722- *Ayenia tomentosa* L.  
10727- *Pseudobastardia crispa* (L.) Hassler  
10757- *Pseudobastardia crispa* (L.) Hassler  
10759- *Stigmaphyllon fulgens* Juss.  
10763- *Abutilon*  
10801- *Matayba* (non *Cupania*)  
10822- *Abutilon indicum* G. Don ?  
10826- *Matayba* (non *Cupania*)  
10843- *Buettneria*  
10852- *Paullinia leiocarpa* Griseb.  
10864- *Sida angustissima Moritziana* K. Sch.  
10875- *Hibiscus bifurcatus* Cav.

Sent July 16<sup>7</sup>, 1923.

Aut. Pittier  
5/9/21

PLANTS OF VENEZUELA.

Jahn - Plants of Venezuela

✓ 722 - Ditassa Jahnii Pittier sp. n.

Pittier - Plants of Venezuela

6006 - Casearia ramiflora Vahl

7502 - Erythroxylum amazonicum Peyritsch

7821 - Casearia ramiflora Vahl

7823 - Casearia, sect. Piparea - undescribed?

✓ 7942 - Metastelma

8022 - Inga punctata Willd.

9123 - Metastelma

✓ 9649 - Metastelma

✓ 9793 - Metastelma campanulatum Dcne.

9836 - Ditassa caracasana Pittier

9854 - Marsdenia macrophylla Fourn.

10013 - Indet. - Fl. worm-eaten inside

10066 - Metastelma melanthoideum Pittier n. sp.

✓ 10212 - Metastelma campanulatum Dcne.

10249 - Inga coruscans (Poir.) H. & B.

10286 - " " " " " "

10309 - " " " " " "

✓ 10384 - Marsdenia macrophylla Fourn.

10433 - Erythroxylum amazonicum Peyritsch

10477 - Vitex cymosa Bertero

10491 - " " " " "

10508 - Tabebuia serratifolia D. C.

Pittier - Plants of Venezuela (cont.)

- 10510 - Machaerium acuminatum H. B. K.
- 10537 - Pithecolobium pubescens
- 10604 - Melochia polystachya (H. B. K. ) Tr.
- 10607 - Roulinia
- 10642 - Apeiba albiflora Ducke
- 10675 - Urena sinuata L.
- 10678 - Cucumis Anguria L.
- 10682 - Conocarpus erectus L.
- 10703 - Guajacum officinale L.
- 10704 - Crataeva Tapia L.
- 10716 - Sapindus Saponaria L.
- ✓ 10729 - Metastelma
- 10738 - Citharexylum tomentosum H. B. K.
- 10755 - Ibatia maritima (L.) Dene.
- 10769 - Citharexylum tomentosum H. B. K.
- ✓ 10828 - Metastelma sp.
- 10956 - Bellucia Aricaicensium Pittier n. sp.
- 10976 *Couma affida Pitt. n. sp.*
- ✓ 11021 - Metastelma
- ✓ 11094 - Marsdenia macrophylla Fourn.

- 10761 - Turnera odorata Rich.
- 10796 - Cracca cinerea (L.) Morong
- 11018 - Acacia tamarindifolia Willd.
- 11022 - " " " " "
- 11033 - Egletes humifusa Less.
- 11077 - Eupatorium iresinoides H. B. K.
- 11096 - Vernonia scorpioidea Pers.

Jahn's Plants

- 69 - Baccharis heterophylla H. B. K. (det. Pilger)
- ✓ 880 - Lobelia tenera H. B. K. ( " Pittier)
- 1091 - Boraginacea ?
- ✓ 1095 - Erigeron pellitus H. B. K.
- ✓ 1096 - Rhizocephalum meridense Pittier, n. sp.- To be checked
- ✓ 1098 - Stevia urticaefolia Thumb.
- X Not - ✓ 1101 - ~~Erigeron karwinskianus D. C.~~ *Plagiachela solivaeformis DC. ex DC.*
- 1174 - Baccharis cassinaefolia D. C.
- 1175 - Stevia caracasana D. C.

Emilio Pittier's Plants

- 42 - Wedelia ?

with list 9 Oct 23

Pittier, Plants of Venezuela.

- 5755 - *Achyrocline vargasiana* D. C. (det. Pilger)
- 5770 - *Dalechampia scandens mollis* Muell.-Arg. ( " " )
- 5835 - *Inga spuria* Willd. (det. Harms)
- 5858 - *Baccharis thexioides* H. B. K. ( " Pilger)
- 6002 - *Pithecolobium lanceolatum* Benth. ( " Harms)
- " *ligustrinum* Kl. ( " Pittier)
- 6013 - *Cyclanthera leptostachya* Benth. ( " " )
- 6014 - *Juglans neotropica* Diels ( " Pilger)
- " *columbiensis* L. A. A. Dode ( " Pittier)
- 6048 - *Anguria umbrosa* Kunth ( " Harms)
- 6058 - *Inga spuria* Willd. ( " Pittier)
- 6304 - *Sebastiania venezolana* Pax & K. Hoffm. ( " Pilger)
- ( " " *granatensis* Muell.-Arg.)
- 6310 - *Sapium moritzianum* Kl. ( " Pittier)
- 6351 - *Tessaria legitima* D. C. ( " Pilger)
- 6357 - *Egletes viscosa* Less. ( " " )
- 6361 - *Sapium moritzianum* Kl. ( " Pittier)
- { 6365 - *Hybanthus communis* Taub. ( " Pilger)}
- " *Ionidium parietariifolium* D. C. ( " Blake)}
- 6378 - *Rinorea panura* G. Ktze. ( " Pilger)
- { 6425 - *Bauhinia aff. emarginata* Mill. ( " Harms)}
- " *ungula* Jacq. ( " Blake)}
- { 6460 " *Bredemeyeri* Vogel ( " Harms)}
- " *mollicella* Blake ( " Blake)}
- 6582 - *Anguria longeracemosa* Pittier sp. nov. (Panama)
- 6748 - *Clidemia gracilis* Pittier sp. nov. " "
- 6796 - *Sicana odorifera* Naud. " (det. Pittier)
- 6936 - *Luffa operculata* Cogn. " ( " " )
- 7202 - *Wedelia caracasana* D. C. Please verify!
- 7437 - *Alternanthera repens* (L.) O. Ktze (det Pittier)
- 8041 - *Acacia riparia* H. B. K. ( " Harms)
- 8329 - *Eupatorium ibaguense* H. B. K. ( " Pittier)
- 8977 - *Inga acuminata* Benth. ( " " )
- 9079 - *Corallocarpus emetocatharticus* (Grosourdy) Cogn. " Harms)
- 9126 - *Acacia bonariensis* Gill. (?) ( " " )
- 9432 - *Machaerium tovarense* Pittier ( " Pittier)
- 9435 - *Lobelia trinitensis* Griseb. (?) Certe non *L. cliffortiana*! "
- 9453 - *Wedelia caracasana* D. C. Please verify!
- 9601 " " " " " " " " " " " "
- 9660 " " " " " " " " " " " "
- 9789 - *Acacia riparia* H. B. K. (det. Pittier)
- 9902 - *Dolicholus minimus* (L.) Medic. ( " " )
- 10197 - *Evolvulus nummularius emarginatus* Neissn. ( " " )
- 10283 - *Wedelia* sp. ?
- 10382 - *Alternanthera ficoidea* (L.)
- 10522 - *Amyris sylvatica* Jacq.
- 10570 - *Synedrella nodiflora* (L.) Gaertn.
- 10710 - *Turnera odorata* Rich.
- 10712 - *Eupatorium iresinoides* H. B. K.

Jahn--Plants of Venezuela

sent with letter  
of 29 May '23  
Ent. Circ. #7  
5/9/21

- 16 -- Chaetolepis alpestris (Karst.) Naud.  
61 -- Monochaetum (Specimen imperfect)  
485 -- Miconia ambigua (Bonpl.) Cogn.  
✓ 555 -- Chaetolepis alpestris (Karst.) Naud.  
✓ 601 -- Miconia theaezans Cogn.  
603 -- Miconia  
✓ 607 -- Monochaetum Jahnii Pittier sp. n.  
✓ 690 -- Tibouchina  
✓ 691 -- Monochaetum Bonplandii Naud.  
✓ 708 -- Marcetia andicola Naud. (not the same as M. cordigera D.C., but I think, a good species.)  
✓ 755 -- Tibouchina brachyanthera Pittier sp. n.  
793 -- Monochaetum meridense Naud.  
✓ 876 -- Miconia  
✓ 878 -- Miconia theaezans Cogn.  
✓ 900 -- Tibouchina  
✓ 977 -- Miconia aeruginosa Naud.  
✓ 989 -- Monochaetum Bonplandii Naud.  
990 -- Marcetia andicola Naud. (vide supra).  
✓ 1014 -- Tibouchina (?) (Specimen imperfect)  
1149 -- Chaetolepis microphylla (Miq.) Cogn.  
1150 -- Chaetolepis lindeniana (Triana) Cogn.  
1157 -- Meriania longifolia (Naud.) Cogn.  
✓ 1165 -- Monochaetum discolor Karst.

Emilio Pittier--Plants of Venezuela

- ✓ 45 -- Meriania longifolia Cogn.  
87 -- Monochaetum latifolium Naud.  
✓ 93 -- Miconia  
107 -- Miconia albicans (Sw.) Triana  
✓ 131 -- Miconia  
138 -- Heterotrichum  
152 -- Heterotrichum

Pittier--Plants of Venezuela

- ✓ 7080 -- Heterotrichum Schlimii Triana, vel aff.  
✓ 7088 -- Miconia prasina DC.

Pittier--Plants of Venezuela (cont.)

- ✓ 7138 -- Miconia albicans (Sw.) Triana
- ✓ 7457 -- Miconia minutiflora DC.
- ✓ 7518 -- Miconia
- ✓ 7528 -- Miconia rubiginosa DC.
- ✓ 7566 -- ~~Tibouchina~~ *Monochaetum*
- ✓ 7608 -- Miconia minutiflora DC.
- ✓ 7716 -- Monochaetum Humboldtianum Hook.
- ✓ 7918 -- Miconia rufescens DC.
- 8019 -- Miconia Fendleriana Cogn.
- X 8132 -- Miconia
- X 8909 -- Mouriria pseudo-geminata Pittier
- ✓ 8917 -- Clidemia grandifolia Cogn.
- ✓ 8949 -- Clidemia hirta (L.) G. Don.
- ✓ 8958 -- Miconia triplinervis R. & P.
- ✓ 9112 -- Clidemia hirta elegans Cogn.
- X 9147 -- Miconia
- ✓ 9249 -- Monochaetum hirtum Triana
- ✓ 9258 -- Miconia
- ✓ 9308 -- Tibouchina
- ✓ 9448 -- Miconia albicans (Sw.) Triana
- ✓ 9457 -- Miconia
- ✓ 9514 -- Miconia albicans (Sw.) Triana
- ✓ 9524 -- Miconia ciliata DC.
- ✓ 9534 -- Miconia rubiginosa DC.
- ✓ 9628 -- Clidemia hirta (L.) G. Don.
- ✓ 9776 -- Miconia minutiflora DC.
- ✓ 9830 -- Maieta testiculata Cogn.
- X ✓ 9875 -- Miconia
- X 10050 -- Tibouchina
- ✓ 10051 -- Monochaetum hirtum Triana
- X 10111 -- Acisanthera inundata Triana
- ✓ 10112 -- Pterolepis
- ✓ 10361 -- Miconia rufescens DC.
- ✓ 10363 -- Miconia stenostachya DC.
- ✓ 10366 -- Clidemia Bonplandii (Naud.) Cogn.
- ✓ 10369 -- Clidemia rubra microphylla Naud.
- ✓ 10394 -- Miconia ambigua (Bonpl.) Cogn.
- ✓ 10432 -- Miconia minutiflora DC.

8909 Mouriria pseudo-geminata Pittier  
n. sp.

## Pittier--Plants of Venezuela (cont.)

- ✓10438 -- *Miconia ciliata* DC.
- ✓10439 -- *Clidemia hirta* (L.) G. Don.
- ✓10441 -- *Heterotrichum*
- ✓10578 -- *Desmoscelis mollis* Pittier sp. n.
- ✓10583 -- *Tibouchina aspera* Aublet
- ✓10586 -- *Miconia rufescens* DC.
- X 10671 -- *Acisanthera Boissieriana* Cogn.
- ✓10817 -- *Miconia*
- ✓10916 -- *Aciotis purpurascens* (Tr.) Cogn.
- ✓10980 -- *Miconia*
- ✓11007 -- *Miconia albicans* Sw.

## Pittier--Plants of Panama

- 6726 -- *Miconia minutiflora* DC.
- 6966 -- *Miconia albicans* Sw.

with letter 13 Oct 1921

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- ~~459~~ Jahn- *Hirtella bracteolata* Pittier sp. n. (ined)
- 7061 - *Calliandra laxa* Benth.
- ~~7140~~ - *Pithecolobium tortum* Mart.
- ~~7153~~ - " " "
- ~~7234~~ - *Citharexylum subthyrsoideum*
- 7307 - *Calliandra caracasana* Benth.
- 7355 - *Cipura paludosa* Aubl.
- 7423 - *Pectis elongata* H.B.K.
- 7459 - *Gronovia scandens* L.
- ~~7540~~ - *Pithecolobium tortum* Mart.
- 7576 - *Ormosia fastigiata* Tul.
- 7584 - *Bradburya virginiana* (L.) O.K.
- 7689 - *Capparis tenuisiliqua* Jacq.
- 7697 - *Bombacopsis sepium* Pittier n. sp.
- 7725 - *Pithecolobium ligustrinum* Klotzsch.
- 7728 - *Matayba scrobiculata* Radlk.
- 7806 - *Bombacopsis mucronulata* Pittier n. sp.
- 7841 - *Pithecolobium ligustrinum* Klotzsch.
- 7843 - *Cordia dasycephala* H.B.K.
- 7897 - *Eupatorium celtidifolium* Lam. var. *hirtellum* Rob. — Ours is *Trichogonia*
- ~~7902~~ - *Calliandra gracilis* Benth. *Madrocarpa* Rob.
- 8125 - *Trichilia montana fendleriana* D.C.
- 8203 - *Bombacopsis sepium* Pittier.
- 8260 - *Bauhinia multinervia* (H.B.K.) D.C.
- ~~8297~~ - *Piptadenia flava* Benth.
- ~~8816~~ - *Calliandra tergemina* Benth.
- ~~8838~~ - *Croton glabellus* L.
- ~~8866~~ - *Calliandra tergemina* Benth.
- ~~8868~~ - *Pithecolobium tortum* Mart.
- ~~8927~~ - *Calliandra tergemina* Benth.
- ~~9055~~ - *Calliandra glomerulata* Karst.
- ~~9133~~ - " *portoricensis* Benth. ?
- ~~9157~~ - *Bombacopsis sepium* Pittier.
- 9166 - *Calliandra glomerulata* Karst.
- ~~9333~~ - *Citharexylum robustum* Pittier n. sp.
- 9396 - *Eriosema crinitum* E. Mey.
- 9455 - *Croton pungens* Jacq.
- 9549 - *Cassia glandulosa* L.
- 9566 - *Inga villosissima* Benth.
- 9577 - *Croton speciosus* Muell. Avg.
- 9620 - " *ovalifolius* Vahl West
- ~~9621~~ - *Calliandra caracasana* Benth.
- ~~9646~~ - " " "
- ~~9648~~ - *Citharexylum subthyrsoideum* Pittier. sp. n.
- ~~9659~~ - *Croton hirtus* L' Hérit.
- 9693 - *Zanthoxylum Chiloperone* Mart.
- ~~9765~~ - *Cyperus cayennensis* (Lam.) Britt.
- ~~9830~~ - *Maieta testiculata* Cogn.

not listed  
red yet

Cyperaceae indet.

6251	<del>9293</del>	<del>9450</del>	<del>9640</del>	Jahn	17
8310	9306 - <i>lance</i>	9560	9757	"	<u>317</u>
8317	<del>9383</del>	9579 - <i>hyp.</i>	9759		
8345	<del>9440</del>	9604	9766		
8359	<del>9442</del>	9612	9767 - <i>del.</i>		
<del>9272</del>	<del>9445</del>	9638	9774		

with letter 14 April '24  
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Plantae venezuelenses

- 7218 - Ipomoea pseudo-linum Pittier. (type)  
7279 - " " " " "  
7537 - Ipomoea sp.  
7869 - Jacquemontia violacea Choisy ex char.  
7 8264 - Pharbitis acuminata Choisy ex char.  
8296 - Odontadenia grandiflora (G.F.W.May) det. Markgraf).  
9353 - Solanum acerifolium H. B. K. ex char.  
10353 - Plumiera alba L. (det. Dr. Markgraf).  
7 10753 - Pharbitis acuminata Choisy ex char.  
10733 - Prevostea longepaniculata Pittier.  
10759 - Stigmaphyllon adenodon Juss.  
10812 - Evolvulus holosericeus H. B. K. ex char.  
10877 - Pharbitis Nil (L.) Choisy ex char.  
11347 - Quamoclit hederifolia L. ex char.  
11348 - Jatropha gossypifolia L.  
11359 - Cuscuta americana L.  
11415 - Nasturtium officinale R. Br.  
11417 - Jussieua hirta Vahl.  
11428 - Ipomoea sp. aff. Pekholtii.  
11444 - Lonchocarpus lutescens Pittier sp. n.  
11450 - Machaerium Humboldtianum Vogel.  
11429 - Ipomoea sidaefolia Choisy ex char.  
11473 - Cochlospermum vitifolium Willd. (Maximiliana)  
11484 - Stigmaphyllon fulgens Juss.

Herb. Costaricense: Det. Dr. Markgraf.

- 13355+ *Forsteronia chiliantha* K. Sch.  
13032+ *Mandevilla tomentosa* (Vahl) K. Sch.  
17694+ *Tonduzia parvifolia* Pitt.  
14273+ *Mandevilla microcalyx* (DC.) K. Sch. var. *leiantha* Mull. Arg.  
13904- *Tabernaemontana* *Donnell Smithii* Rose  
13953- *Ervatamia coronaria* (R. Br.) Stapf.  
14274- *Stemmadenia bignoniiflora* (Schltd.) Miers  
14275-       "                       "                       "                       "  
16622- *Forsteronia chiliantha* K. Sch.  
16421- *Prestonia longituba* K. Sch.  
13945-       "                       "                       "  
17741       "           *pachycarpa*                       "  
14276       "                       "                       "  
16016       "           *macrocarpa* Hemsl.  
7608 Unbestimmbar; Zerfressen (*Tabernaemontana*)  
7856       "                       "                       "  
7936       "                       "                       "  
17653       "                       "                       "  
14278       "                       "                       "  
14279- *Tonduzia longifolia* (DC.) Mgf.  
13683- *Thevetia neriifolia* Juss.

Nov. 15, 1923.

Ent list  
5/9/34

Emilio Pittier--Plants of Venezuela

- 49 -- Malvaviscus cuspidatus Turcz. ~~Zoysia~~  
84 -- Carica cauliflora Jacq.

Pittier--Plants of Venezuela

- 6360 -- Solanum micranthum Willd.  
7032 -- Lantana lilacina Desf. ? (Blake det.?)  
7199 -- { Scutellaria purpurascens Sm. ! (Pitt.)  
          { Micromeria Brownei Benth., sec. Blake  
7309 -- Salvia angulata Benth.  
7479 -- Labiatae (Teucrium?)  
7583 -- Sarcostemma cumanense H.B.K.  
7965 -- Arrabidaea parviflora vel aff. ?  
8944 -- Arrabidaea parviflora vel aff. ?  
9005 -- Arrabidaea parviflora vel aff. ?  
9262 -- Micromeria Brownei Benth.  
9294 -- Labiatae (Teucrium?)  
9429 -- Sarcostemma glaucum H.B.K.  
9614 -- Salvia angulata Benth.  
9791 -- Arrabidaea Sieberi vel aff. ?  
9877 -- Amphilophium paniculatum (L.) H.B.K.  
9904 -- Nicotiana Tabacum L.  
10025 -- Labiatae (Teucrium?)  
10049 -- Castilleja divaricata Benth.  
10105 -- Herpestis Salzmannii Benth.  
10113 -- Utricularia subulata L.  
10154 -- Utricularia myriocysta St. Hil.

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Jahn-Plants of Venezuela

- 74 -- *Micromeria ambigua* Cit?
- 513 -- *Stachys elliptica* H.B.K.
- (V) 573 -- *Calceolaria stricta* H.B.K.
- (V) 574 -- ~~*Bartsia pedicularioides* Benth.~~ *Calceolaria perfoliata* L.
- (V) 621 -- *Bartsia laniflora* Benth.
- (V) 628 -- *Bartsia laniflora* Benth.
- 752 -- *Pitcairnia nubigena* Planch. — not sent? (perhaps no, confused with 752)
- (V) 1005 -- *Bartsia pedicularioides* Benth.
- (V) 1024 -- *Pinguicula calyptrata* H.B.K. v. nov.
- (V) 1029 -- *Fuchsia venusta* H.B.K.
- (V) 1038 -- *Bartsia pedicularioides* Benth.
- (V) 1081 -- *Herpestis chamaedryoides* H.B.K. — wrong
- (V) 1088 -- *Tillandsia* (non *Pitcairnia*)
- (V) 1101 -- Non est *Erigeron*
- (V) 1145 -- *Salvia sagittata* Ruiz & Pav.
- 1151 -- *Micromeria*, distinct, from ambigua, but not nubigena?
- (V) 1186 -- *Arrabidaea Chica* vel aff. ?
- (V) 1204 -- *Tacsonia mixta* Juss.?
- (V) 1205 -- *Maurandia erubescens* (L.) Hemsl.
- (V) 1212 -- *Phryganocydia corymbosa* Bur.
- 1213 -- *Solanum hirtum* Vahl. — not sent
- (V) 1214 -- *Capraria biflora* L.
- (V) 1219 -- *Dalbergia Brownei* (Jacq.) Urban
- 1231 -- *Cydista aequinoctialis* Miers — not sent?
- (V) 1260 -- *Cydista aequinoctialis* Miers
- 1263 -- *Sarcostemma pubescens* H.B.K. — not sent?

- 10155 -- *Herpestis Salzmannii* Benth.  
10157 -- *Utricularia obtusa* Sw.  
10224 -- *Lantana Moritziana* Otto & Dietr.  
10260 -- *Lantana involucrata* L.-  
10373 -- *Lycium Johnstonii* Blake  
10385 -- *Pitcairnia Moritziana* C. Kch & Bouche  
10388 -- *Salvia angulata* Benth.  
10401 -- *Amphilophium molle* Cham. & Schl.  
10636 -- *Utricularia subulata* L.  
10788 -- *Stemodia durantifolia* Sw.  
10827 -- *Arrabidaea Schomburgkii* Kl. ?  
10829 -- *Schwenkia americana* L.  
10873 -- Acanthacea?  
10915 -- *Cephaelis tomentosa* (Aubl.) Vahl.  
11060 -- *Samanea Saman* (Jacq.) Merrill  
11061 -- *Lantana lilacina* Desf. ? (Pitt. det.)?  
11150 -- *Buettneria* sp. nov. ? Its description  
11155 -- ~~XXXXXXXXXX~~ does not agree with that of B. catapifolia<sup>l</sup> Jacq.  
11163 -- *Sarcostemma pubescens* H. B. K.

with letter 13/12/23

Ent Print

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Pittier, Plants of Venezuela

- 5865- *Elaterium carthaginense* Jacq.
- 5899- *Echinocystis*
- 6535- *Miconia rufostellulata* Pittier sp. n. (Panama)
- 6667- *Ossaea trichocalyx* Pittier sp. n. (Panama)
- 6420- *Vincetoxicum*
- 7056- *Elaterium carthaginense* Jacq.
- 7823- *Casearia*
- 8016- *Miconia ciliata* D.C.
- 8118- *Cyclanthera leptostachya* Benth.
- 8132- *Miconia ulmarioides* vel aff. ?
- 9117- *Elaterium*
- 9120- *Prestonia brachypoda* Blake
- 9201- *Elaterium carthaginense* Jacq.
- 9466- *Elaterium*
- 9596- *Elateriopsis caracasana* Ernst.
- 9858- *Elaterium* (non *Echinocystis*).
- 9921- *Momordica Charantia* L.
- 10135- *Elaterium*
- 10280- *Jacquinia mucronulata* Blake ?
- 10353- *Plumeria caracasana* Johnston
- 10354- *Elaterium carthaginense* Jacq.
- 10362- *Miconia rubiginosa* D.C.
- 10437- *Miconia rubiginosa* D.C.
- 10618- *Momordica charantia* L.
- 10960- *Callichlamys latifolia* K. Schum.
- 10872- *Roulinia*
- ✓ 10955- *Miconia caudiculata* Pittier. sp. n.
- ✓ 10980- *Miconia caudiculata* Pittier sp. n.
- 11013- *Jacquinia revoluta* (Jacq.) ?
- 11048- *Momordica charantia* L.
- 11048- *Elaterium*
- 11049- *Trichostigma octandrum* (L.) H. Walt.
- 11050- *Phryganocydia corymbosa* Bur.

Dr. Jahn's Plants

- ✓ 1191- *Miconia albicans* Triana