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Enumeration of T. A. Sprague's South American Plants: Gamopetalae

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7. *A. dominicana*, sp. nov.WEST INDIES: Dominica. On leaves of *Citrus Medica*.

Distinguished by the small triquetrous propagula devoid of hairs.

8. *A. chilensis*, comb. nov. *Heterobotrys paradoxa*, subsp. *chilensis*, Sacc. et Syd. in Ann. myc. ii. p. 172. *Antennaria scoriadea* Berk., Neger in Bakt. Centr., ii. p. 613 (*p.p., non alibi*).

CHILE: Villarica. On leaves of various plants.

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X.—ENUMERATION OF T. A. SPRAGUE'S SOUTH AMERICAN PLANTS: GAMOPETALAE.

H. F. WERNHAM.

The plants enumerated in the present paper were collected during the course of an expedition through Venezuela and

Colombia in 1898-99 (*see* Trans. Bot. Soc. Edin. xxii. pp. 425-434).

The Polypetalae were worked out by the collector, but only diagnoses of the new species were published, as it was intended that the list of plants collected should appear as a whole. It has now been decided to publish the enumeration in parts, and the present instalment, comprising the *Rubiaceae*, will be followed by others, including the Polypetalae and the remainder of the Gamopetalae.

RUBIACEAE.

Joosia umbellifera, *Karst.* Flor. Columb. i. 9, t. 5 (1858).

COLOMBIA. San Martin District: Villavicencio, fl. Jan. *Sprague* 134. Small tree with white flowers.

Distrib. Colombia and Peru.

Manettia coccinea, *Griseb.* Fl. Br. W. Ind. 329. A form with 4 calyx-lobes instead of 8.

COLOMBIA. San Martin District: Villavicencio, fr. Jan. *Sprague*.

Distrib. Central America, West Indies, Guiana, and Western tropical South America.

Manettia coccocypseloides, *Wernham*; affinis *M. racemosae*, Ruiz et Pav., a qua floribus paucioribus minoribus, forma calycis corollaeque distinguitur.

Herba debilis scandens, caule sparse et obscure puberulo subnitente; *foliis* lanceolatis vel ovato-lanceolatis, circiter 4.5 cm. × 1.7 cm., acuminatis acutissimis, utrinque sparsiuscule griseo-puberulis, petiolo brevi ad 8 mm. longo; *stipulis* parvis late ovatis; *floribus* albis circiter 1 cm. longis in cymis corymbosis paucifloris, pedunculo vix 1.5 cm. longo qua ramuli et pedicelli graciles ad 5 mm. sparsiuscule puberulo; *bracteis* ovalibus mucronatis ad circiter 5 mm. × 2.5 mm. ut folia indutis; *calycis* lobis 4 lineari-oblongis, 3-4 mm. longis; *corolla* extra puberula inter minimas tubo gracili insuper leniter nec multo ampliato demum glabrescente; *capsula* subglobosa sparse puberula tardius glabrescente.

COLOMBIA. Tolima: Pitalito, fl. and fr. March, *Sprague* 244.

A delicate little herb, allied to the Venezuelan *M. racemosa*, but readily distinguished by the much smaller flowers fewer together, and the differently shaped calyx and corolla.

Sipanea acinifolia, *Spruce ex Sprague* in Trans. & Proc. Bot. Soc. Edin. xxii. 433 (1904).

VENEZUELA. Caicara, Orinoco, in savanna near a clump of *Moriche* palms, fl. Nov. *Sprague* 7.

Distrib. Lower Orinoco and Lower Amazons. The only other known specimen was collected at Santarem by Spruce. *Sprague's* specimen seems to have abnormally large flowers, and may possibly be a variety.

Limnosipanea palustris, *Hook. f.* Ic. Pl. t. 1050. *Sipanea palustris*, Seem. Bot. Herald, 136 (1852).

COLOMBIA. Cabuyaro, Rio Meta, fr. Jan. *Sprague* 57.

Distrib. Panama and Colombia.

Oldenlandia herbacea, DC. Prodr. iv. 425 (1830).

COLOMBIA. Cabuyaro, Rio Meta, edge of wood, fr. Jan. *Sprague* 28.

Distrib. Fairly general throughout the tropics.

Isertia Spraguei, Wernham; affinis *I. Purdiei*, Sprague, a qua corollae forma ac indumento differt.

Arbor ramulis sulcatis sparsiuscule minute asperulo-pubescentibus; *foliis* 26–38 cm. × 12–16 cm. ellipticis vel elliptico-oblongis, brevissime leniterque acuminatis obtusis, supra glabris subnitentibus, subtus inter venas minute griseo-tomentosis, in costa media prominente venisque secundariis utrinque ad 25 tenuibus siccitate nigricantibus necnon in reticulo interveniente conspicuo tamen tenui obscure minutissime pubescentibus; *petiolo* subterete similiter induto ad 5.5 cm. nonnunquam longiore; *stipulis* fere ad basin in partibus triangulari-lanceolatis acuminatis acutis rigidiusculis 1–1.5 cm. longis saepe distantibus divisis; *inflorescentia* subpyramidalis thyrsoidae ramulis sparse in axillis densius pubescentibus tandem deflexis; *calycis* glabri limbo integerrimo brevissimo; *corollae* tubo extra sparse minute pubescente 4–4.5 cm. longo, insuper leniter usque ad in ore 1.2 cm. lato ampliato, lobis ovalibus apice rotundatis 1.1 cm. × 6 mm.; *stylo* pubescente, *stigmatibus* 2 glabris suborbicularibus; *baccis* glabris bilocularibus.

COLOMBIA. Eastern Cordilleras between Pitalito (Tolima) and ratis suborbicularibus; *baccis* glabris bilocularibus.

Isertia alba, *Sprague* in Trans. & Proc. Bot. Soc. Edin. xxii. 434 (1905). By a clerical error the wrong specimen and locality were quoted for this species. The correct data are now given.

PERUVIAN AMAZONS. Yurimaguas, Huallaga River, in secondary forest, fl. May, *Spruce* 3878.

Gonzalea tomentosa, *Humb. et Bonpl.* Pl. Aeq. i. 225, t. 64 (1808).

COLOMBIA. Tolima: San Augustin, fl. March, *Sprague* 297.

Distrib. Western Tropical South America.

Sabicea camporum, *Sprague* in Trans. & Proc. Bot. Soc. Edin. xxii. 434 (1904).

COLOMBIA. Cabuyaro, Rio Meta, fl. Jan. *Sprague* 43.

Hamelia lutea, *Rohr. ex Smith* in Rees, Cycl. v. 17, n. 4 (1811).

COLOMBIA. Caquetá District: San José, Rio Putumayo, fl. and fr. Aug. *Sprague* 611. Flowers yellow.

Distrib. Generally in tropical America.

Hamelia patens, *Jacq.* Stirp. Amer. 72, t. 50 (1763).

COLOMBIA. San Martin District: Villavicencio, fl. Jan. *Sprague* 110.

A glabrescent form (see Wernham, Journ. Bot. 1911, xlix. 214), with minutely scabrid leaves.

Distrib. Tropical America, Mexico, and Paraguay.

Bertiera guianensis, *Aubl.* Pl. Guian. i. 180, t. 69 (1775).

COLOMBIA. San Martin District: Villavicencio, fl. and fr. Jan. *Sprague* 91.

Distrib. Generally in tropical America.

Alibertia pedicellata, Wernham; floribus in racemulo abbreviato valde bracteato dispositis distincta.

Arbor glabra ramulis rectis cortice striato; *foliis* pergamentaceis oblanceolatis ad obovatis vel ellipticis 16–20 cm. × 5·5–8·5 cm., utrinque angustatis, venis secundariis utrinque circiter 10 subtus qua centralis supra impressa prominentibus, reticulo tertiariorum valde conspicuo, petiolo 1–1·5 cm. glabro; *stipulis* late oblongo-triangularibus cuspidatis ad 5 mm. × 7–8 mm.; *floribus* in racemulo abbreviato 1–1·5 cm. longo dispositis; *bracteis* et bracteolis triangularibus subacutis ad 5 mm. × 3 mm. concavis; *pedicellis* minutissime pubescentibus griseo-furfuraceis fructu ad 6–7 mm. accrescentibus; *bacca* ellipsoidea glabra 2·5 cm. longa 1·8 cm. lata a calycis limbo dentibus 5 brevibus latis subacutis coronata.

COLOMBIA. Caquetá District: Mocoa, fr. May, *Sprague* 362; *Triana* 1833.

Remarkable for the characters of the inflorescence—especially the pedicels.

Duroia Spraguei, Wernham; affinis *D. hirsutae*, K. Schum., a qua floribus solitariis multo hispidioribus recedit.

Arbor; foliis validiuscule pergamentaceis late oblanceolatis ad circiter 23 cm. × 10 cm., basin versus angustatis petiolo hispido circiter 1·5 cm. longo, apice cuspidatis acutis acumine vix 1·5 cm. excedente, supra sparsiuscule in venis hispido-hirtis, subtus in venis conspicuis centrali valde prominente dense secundariis sparsius utrinque circiter 15 hispidis, margine ciliato, aliter hirtellis ad glabratis; *floribus* subsolitariis; *calycis* dense sericeo-hispidi lobis subulato-setaceis alabastro ad 8–9 mm., tubo circiter 5 mm.; *corolla* extra sericea; *ovario* ellipsoideo densissime longe sericeo-hispidissimo, alabastro 1·3 cm. × 8 mm.

COLOMBIA. Caquetá District: Mocoa, *Sprague* 369; *Triana*.

Approaches *D. hirsuta*, K. Schum., but differs in the relatively broader leaves with longer stalks and shorter, more cuspidate acumen; and in the solitary, much more hispid, and larger flowers. Native name: "Taruquillo."

Posoqueria Spraguei, Wernham; affinis *P. decorae*, DC., a qua corollae tubo multo longiore et calycis dentium forma recedit.

Frutex glaberrimus ramulis tetragonis; *foliis* ovalibus ad circiter 25 cm. × 12 cm. brevissime acuminatis apice acutissimo; *petiolo* brevissimo 1 cm. vix attingente; *stipulis* primo triangularibus demum ovatis basin versus constrictis vix connatis nec vaginantibus apice obtuso circiter 2·2 cm. × 1·3 cm.; *inflorescentia* pauciflora, pedicellis ad 1 cm. longis; *calycis* dentibus triangularibus obtusis circiter 1·5 mm. × 1·5 mm.; *corollae* tubo angustissimo longissimo 23 cm. excedente latitudinem 3 mm. nec attingente in super vix ampliato, lobis oblongis obtusis ad 3·5 cm. × 5 mm.; *antheris* dorso puberulis oblongis circiter 7 mm. longis, filamentis ad 1 cm. exsertis.

COLOMBIA. Caquetá District: San José, in a creek of the River Putumayo, fl. Aug. *Sprague*.

A very distinct species, its nearest ally being *P. decora*, DC., from which it differs especially in the much longer corolla-tube and differently-shaped calyx-teeth.

Geophila reniformis, *D. Don*, Prodr. Fl. Nep. 136.

COLOMBIA. Caquetá District: Mocoa, *Sprague* 404.

Distrib. Generally throughout the tropics.

Cephaelis sp.

COLOMBIA. Caquetá District: Mocoa, fr. May, *Sprague* 378. Tree 5 m. high, 12.5 cm. in diameter. Probably a *Cephaelis*; cannot be described in the absence of flowers.

Psychotria acuminata, *Benth.* Bot. Sulph. 107 (1844).

COLOMBIA. Caquetá District: Mocoa, *Sprague* 405.

Distrib. Colombia. A broad-leaved variety has been found in Nicaragua.

Psychotria Spraguei, *Wernham*; similis *P. trichocephalae*, Poepp. et Endl., a qua calycis segmentis elongatis et indumento foliorum differt; ab affini *P. horridula*, Muell. Arg., inflorescentia multiflora distinguitur.

Frutex; foliis lanceolatis vel anguste oblongis circiter 12–15 cm. × 3.5–4.5 cm. utrinque angustatis subacutis acuminatis utrinque praesertim subtus in venis densiuscule hispidis olivaceo-viridibus, petiolo circiter 1.5 cm. hispidissimo; stipulis ovatis insuper bifidis subulato-caudatis rigidis ad 2.5 cm. longis; inflorescentia subcapitata multiflora; bracteis bracteolisque extra pilis articulatis hispidissimis indutis lanceolatis ad linearibus apicibus setaceis exterioribus nonnunquam ovatis subtrilobatis; calycis limbo fere ad basin in lacinias 5 lineares diviso flore 2–3 mm. fructu ad 4.5 mm. accrescentibus; corollae tubo gracili 5 mm. extra subglabro, lobis triangularibus subacutis 1–1.5 mm. extra dense barbatis; bacca ellipsoidea hispida calycis limbo persistente coronata.

COLOMBIA. Tolima: San Augustin, fl. and fr. March, *Sprague* 304. Also collected by *Triana* 1708; *Ocaña*, *Purdie*; *Kalbreyer* 1055.

This species bears a superficial resemblance to *P. trichocephala*, Poepp. et Endl., but there is a fundamental difference in the elongated calyx-segments of the present species, and the leaf-indumentum is quite distinct. The nearest affinity seems to be with the Brazilian *P. horridula*, Muell. Arg., which has a 2-3-flowered inflorescence, and differently-shaped leaves and stipules.

Psychotria bertieroides, *Wernham*; affinis *P. flexuosae*, K. Schum., a qua corolla distinguitur.

Frutex glaber ramulis quadrangularibus; foliis ellipticis 16 cm. × 6 cm. ad 22 cm. × 9 cm. utrinque angustatis apice acutis, petiolo 2–2.5 cm. longo venis secundariis utrinque 10; stipulis binis infra in vagina ad circiter 2.5 mm. alta connatis supra in aristis duabus rigidescentibus 3 mm. longis 3.5 mm. distantibus productis; inflorescentia thyrsioidea laxa circiter 11 cm. × 6 cm., pedunculo 6–7 cm. longo, cymulis dichotomis subunilateralibus, floribus 4–meris subsecundis distantibus sessilibus 4–5 mm. longis; bracteis obsoletis; calyce minimo puberulo minute dentato; corolla extra minutissime sparsim pubescente vel glabrescente insuper infundibulari lobis oblongis patentibus obtusis vix 1 mm. longis; bacca pisiformi costata glabra.

COLOMBIA. Caquetá District: Mocoa, fl. and fr. May, *Sprague* 386.

Recalls *Bertiera parviflora* in the inflorescence and leaf-shape. The nearest species is, perhaps, *P. flexuosa*, K. Schum, but the two are readily distinguished by the characters of the corolla.

Psychotria tolimensis, *Wernham*; affinis *P. anomothyrsae*, K. Schum., a qua inflorescentia differt.

Frutex glaber ramulis subfistulosis; *foliis* oblongo-lanceolatis vel oblanceolatis ad circiter 23 cm. × 6–6.5 cm. apicem subacutum versus leniter acuminatis basi in petiolum subalatum 2–3 cm. longum angustatis; *stipulis* parvis triangularibus caducissimis; *inflorescentia* thyrsioidea laxa circiter 3 cm. × 2.5 cm., pedunculo 3–3.5 cm. axillari ramulis complanatis bracteis inconspicuis; *calycis* minimi limbo subintegro; *corolla* glabra alba angusta superne vix ampliata 5–6 mm. longa.

COLOMBIA. Tolima: Pitalito, fl. March, *Sprague* 237. Also collected by *Triana* 1707.

Near *P. anomothyrsa*, K. Schum, from which it differs in the extent of the inflorescence.

Psychotria cabuyarensis, *Wernham*; *foliis* magnis obovatis, *stipulis* rotundatis conspicue acuminatis, *inflorescentia* magna diffusa facile distinguitur.

Arbor 3 m. alta, glabra; *foliis* obovatis 26–31 cm. × 9–12 cm. apicem subacutum versus parum acuminatis desuper in basin leniter angustatis petiolo brevissimo vel obsolete venis secundariis utrinque circiter 15 conspicuis; *stipulis* integris late ovatis 1.7 cm. × 1.7 cm. caudato-acuminatis acutissimis; *inflorescentia* maxima thyrsioidea laxa ramis divaricatis in fructu ad 13 cm. × 20 cm. accrescente pedunculo valido 19–20 cm. longo; *bracteis* minutiusculis caducis; *floribus* albo-viridibus; *bacca* glabra ovoidea 8–9 mm. × 3–4 mm.

COLOMBIA. Cabuyaro, Rio Meta, in forest south of river, fr. Jan. *Sprague* 154. Collected also by *Barclay* 739, on loam soil in moist woods of St. Francis Esmeraldas.

A very distinct species, readily identified by the large obovate leaves, the broad, rounded stipules with sharply-marked acumen, and the very extensive and diffuse inflorescence.

Psychotria alibertioides, *Wernham*; affinis *P. granadensi*, Benth., a qua calyce multo majore distinguitur.

Frutex glaber ramulis subtertibus validis; *foliis* pergamentaceis obovatis ad 14–15 cm. × 6.5–7 cm. breviter acuminatis obtusis basi acutis petiolo valido 5–8 mm. longo supra demum argenteo-griseis venis secundariis utrinque 9–12 subtus prominentibus; *stipulis* oblongis apice rotundatis circiter 1 cm. × 3.5 mm., parte inferiore paullum persistente mox tamen deciduis; *inflorescentia* umbellata 2–3-chotoma 7–10-flora pedunculo brevi tota vix 3 cm. × 2.5 cm.; *calycis* limbo circiter 2.5 mm. longo 6 mm. lato obscuriuscule dentato; *corollae* albae glabrae tubo late cylindraceo 1.3 cm. × 4.5 mm. (ore) lobis 5 oblongis obtusis 4.5 mm. × 1.8 mm.

COLOMBIA. Caquetá District: San José, R. Putumayo, fl. Aug. *Sprague* 602.

Near *P. granadensis*, Benth., but the calyx in our species is much larger.

***Palicourea crocea*, Roem. et Schult.** Syst. v. 193.

COLOMBIA. Tolima: San Augustin, fl. and fr. March, *Sprague* 282. Flowers orange.

Distrib. Tropical America and Paraguay.

***Palicourea augustifolia*, H. B. et K.** Nov. Gen. et Sp., iii. 367.

COLOMBIA. Between Villavicencio and Bogotá, *Sprague*.

Distrib. Colombia and Venezuela (banks of Orinoco and Rio Negro).

***Palicourea caerulea*, Roem. et Schult.** Syst. v. 194.

COLOMBIA. San Martin District: Villavicencio, fl. and fr. Jan. *Sprague* 90.

Distrib. Western Tropical South America.

***Palicourea dorantha*, Wernham; affinis *P. calycinae*, Benth.**, a qua stipulis et inflorescentiae magnitudine differt.

Arbor 6 m. alta, caule 6–7.5 cm. diametro; *foliis* ellipticis utrinque breviter acuminatis subacutis circiter 20 cm. × 8.5 cm. utrinque nisi subtus in venis sparsissime pilosis glabris venis secundariis utrinque circiter 12–15 subtus prominentibus petiolo glabro ad 3 cm. longo; *stipulis* in vagina 1 cm. alta connatis, partibus liberis 1.5 cm. vel longioribus; *inflorescentia* laxa thyrsoida circiter 18 cm. × 12 cm., pedunculo valido glabro 7–8 cm. longo; *bracteis* parvis ad 8 mm. × 3 mm. oblongo-lanceolatis; *calycis* segmentis latis rotundatis circiter 2 mm. × 2.5 mm. imbricatis; *corolla* inter maximas infundibulari-cylindracea fere 2 cm. longa, ore 7 mm. lata extra dense velutine tomentosa, lobis brevibus latis rotundis.

COLOMBIA. Eastern Cordilleras, between Pitalito (Tolima) and Mocoa (Caquetá District), fl. April, *Sprague* 345.

The nearest ally seems to be *Palicourea calycina*, Benth., but the present species is distinct in the character of the stipules and size of the inflorescence.

***Mapouria alba*, Muell.** Arg. in Flora, 1876, 458.

COLOMBIA. Tolima: San Augustin, fl. and fr. March, *Sprague* 307. A small tree, 4.5–6 m., with whitish flowers and red fruits.

Distrib. Western Tropical South America, Brazil, and Paraguay.

***Mapouria micrantha*, Wernham**, comb. nov. *Psychotria micrantha*, H. B. et K. Nov. Gen. Sp. Pl. iii. 363, t. 284 (1818).

COLOMBIA. Caquetá District: Mocoa, fl. and fr. May, *Sprague* 400.

Distrib. Western Tropical South America.

***Emmeorrhiza umbellata*, K. Schum.** in Fl. Bras. VI. vi. 408. *Endlichera umbellata*, K. Schum., l.c. 38; necnon synonyma alia.

COLOMBIA. Tolima: San Augustin, fl. and fr. March, *Sprague* 321.

Distrib. Widely distributed over the tropics of South America and extending into Paraguay.