UNDESCRIBED PLANTS FROM GUATEMALA AND
OTHER CENTRAL AMERICAN REPUBLICS. XXV.¹

JOHN DONNELL SMITH.

Sloanea meianthera Donn. Sm. (§ AXILLIFLORAE BRACHYSTACHYAE Benth.).—Folia opposita lanceolato-elliptica caudato-acuminata basi acuta supra glabra subtus nervis puberula, petiolis apice subtus incrassatis. Racemi cinereo-pubescentes, floribus inter minimos. Stamina glabra sepalis longiora antheras minimas muticas 3-4-plo superantia. Discus orbicularis. Ovarium canopilosum, stylo apice 4-fido.

Arbor, ramulis superne sulcatis et petiolis cinereo-pubescentibus. Folia subcoriacea integra 8-18^{cm} longa medio 2.5-5.5^{cm} lata, nervis lateralibus utrinque 7-8, petiolis 1-2^{cm} longis, stipulis minutis caducis. Racemi subsessiles 1.5-3^{cm} longi laxè 5-9-flori, bracteolis oblongo-ovatis 1^{mm} longis, pedicellis infimis 5-7^{mm} longis, superioribus quam flores brevioribus. Sepala 4 pubescentia ovata vel lanceolato-ovata 2-2.5^{mm} longa. Stamina 2.5-3.8^{mm} longa, antheris oblongo-ellipsoideis 0.8^{mm} longis rima elongata dehiscentibus. Discus crassus 2-3^{mm}-diametralis pubescens. Ovarium pilis densis obtectum ovoideum cum stylo aequilongo glabro adjecto 3-4^{mm} longum. Capsula desideratur.—Ad *S. obtusifoliam* Schumann et *S. obtusam* Schumann floribus accedens ab utraque foliis recedit.

Cubilquitz, Depart. Alta Verapaz, Guat., alt. 350^m, Febr. 1902, von Tuerckheim, n. 8191 ex Pl. Guat. &c., quas ed. Donn. Sm.

Platymiscium dimorphandrum Donn. Sm.—Foliola 5 membranacea minutissime reticulata oblongo-elliptica obtuse acuminata basi acuta. Racemi fasciculati longissimi fere e basi floribundi. Calyx majusculus obpyramidalis, dentibus 3 acuminato-triangularibus, 2 superioribus in unum obtusum bidenticulatum coalitis. Stamina alterna sterilia, vexillare liberum.

Arbor. Stipulae ovatae vel oblongae 10-14^{mm} longae. Folia cum petiolo 3.5-6^{cm} longo adjecto 15-22^{cm} longa, foliolis 6-12^{cm} longis 2-4^{cm} latis, petiolo terminali 2-2.5^{cm} longo lateralibus bis terve longiore. Racemi glabri 16-25^{cm} longi, pedicellis singulis 1-1.5^{mm} longis, bracteis bracteolisque vix ullis. Calycis tubus 3-3.5^{mm} altus basi acutus, dentes inferiores 1-1.5^{mm} longi. Vexillum orbiculare basi cuneatum 1^{cm} longum alas vix superans

¹Continued from BOT. GAZ. 35:9. 1903.

carina longius. Stamina fertilia 7^{mm} longa, sterilia paulo breviora antheris parvulis cassis instructa. Ovarium stipite brevius stylo aequilongum. Legumen ignotum.—Species et calyce et staminibus insignis.

Cubilquitz, Depart. Alta Verapaz, Guat., alt. 350^m, Mart. 1092, *von Tuerckheim*, n. 8199 ex Pl. Guat. &c., quas ed. Donn. Sm.

Cassia anisopetala Donn. Sm. (§ CHAMAESENNA DC.).—Aculeis stipularibus recurvis armata. Folia eglandulosa, foliolis 4-jugis rarius hinc inde 2–3-jugis lanceolato-ellipticis vel -oblongis utrinque acutis supra nitidis subtus pubescentibus. Racemi foliis sublongiores, pedicellis filiformibus. Petala stipitata valde inaequalia, inferiorum biformium altero maximo incurvato concavo basi rotundo, altero cum superioribus eo minoribus et longius unguiculatis obovato-oblongo basi attenuato. Stamen infimum ceteris majus.

Frutex undique praeter faciem superiorem foliolorum et flores primum aureo-deinde cinereo-pubescent. Folia cum petiolo 3–5^{cm} longo adjecto 10–18^{cm} longa, foliolis 4–8^{cm} longis 2–3^{cm} latis, inferioribus minoribus et magis ellipticis, petiolulis 5–6^{mm} longis. Racemi cum pedunculo 4–8^{cm} longo adjecto 13–21^{cm} longi, pedicellis 2^{cm} longis. Sepala interiora ovalia circiter 5–6^{mm} longa 2 exterioribus oblongis dimidio longiora. Petalorum inferiorum majus 2^{cm} longum 8^{mm} latum basi ascendens oblongum inferne dimidiatum stamen maximum complectens, minus 14^{mm} longum, superioribus 8–10^{mm} longis. Stamina perfecta 7 sepalis interioribus subaequilonga, infimum 7^{mm} longum, antheris 3.5–4^{mm} longis poro duplice apiculatis pilosiusculis. Staminodia 3 staminibus aequilonga, antheris cassis oblongis quam filamenta brevioribus. Ovarium glabrum stipitatum, ovulis verticaliter compressis. Legumen desideratur.—Inter species aculeatas paucae adhuc cognitae haec et foliis et petalis optime distincta.

In planetiebus ad Cubilquitz, Depart. Alta Verapaz, Guat., alt. 350^m, Mart. 1902, *von Tuerckheim*, n. 8194 ex Pl. Guat. &c., quas ed. Donn. Sm.

Miconia involucrata Donn. Sm. (§ JUCUNDA Naud.).—Folia subsessilia oblongo-vel obovato-elliptica caudato-acuminata basi rotundata vel basi ipsa anguste obtusa subintegra supra glabra subtus minutissime puberula 7-plinervia. Panicula stellato-canescens laxa ramosa, ramis secundariis brevissimis apice capituliferis, capitulis trifloris bractea singula involucratis, floribus lateralibus unibracteolatis, centrali ebracteolato.

Arbor, ramis fistulosis. Folia subcoriacea discoloria 24–35^{cm} longa 10–16^{cm} lata nonnunquam disparia subtus pallide cinnamomea, nervis lateralibus prope basin limbi utrinque 3–6 tenuibus brevibus, superioribus apicem limbi

attingentibus utrinque 3, summis 5–10^{cm} supra basin a costa secedentibus, petiolis 5–6^{mm} longis. Panicula terminalis pyramidata cum pedunculo 6–10^{cm} longo adjecto 20–25^{cm} longa, inflorescentiae nondum evolutae capitulis glomeratis vel breviter spicatis, bractea orbiculari bracteolisque 1^{cm} longis stellato-canescens jam ante anthesin caducis, floribus 6-meris. Calycis canescentis tubus 7^{mm} longus, lobi lanceolati 5^{mm} longi. Petala oblonga 7^{mm} longa obtusa alba. Stamina violacea, antheris 1^{cm} longis filamenta superantibus, loculis undulatis, connectivo ecalcarato basi incrassato. Ovarium tubo calycis 3-plo brevius 4-loculare, stylo 17^{mm} longo. Bacca ignota.

Cubilquitz, Depart. Alta Verapaz, Guat., alt. 350^m, Sept. 1901, *von Tuerckheim*, n. 8204 ex Pl. Guat. &c., quas ed. Donn. Sm.

Arthrostemma apodocarpum Donn. Sm.—Folia parva lanceolata vel lanceolato-elliptica vel ovata sursum subsensim acuminata in petiolum longiusculum contracto-acuminata et decurrentia supra sparsim setulosa subtus glabra et pallida opaca 5-nervia, margine appresse arguteque ciliato-serrulato. Flores sessiles. Stamina parum inaequalia, filamentis complanatis glandulari-pilosis. Capsula cylindrica basi attenuata.

Caules e rhizomate repente ascendentes 3–5.5^{dm} longi herbacei sicut inflorescentia pilis glanduliferis passim conspersi. Folia 28–45^{mm} longa 15–22^{mm} lata nervis basilaribus latis fuscis subtus tantum notata ceterum enervia, petiolis 10–15^{mm} longis. Cyma dichotoma laxe pauciflora. Calycis tubus clavato-oblongus 8^{mm} longus, limbus patulus triangulari-dentatus 3^{mm} latus. Petala 15^{mm} longa. Stamina majorum filamenta 5^{mm}, minorum 4^{mm} longa, antheris parvulis. Capsula sessilis 16–18^{mm} longa calycis fructiferis tubum aequans eique adhaerens.—*A. parvifolio* Cogn. proximum.

Inter rupes ad Cubilquitz, Depart. Alta Verapaz, Guat., alt. 350^m, Jan. 1902, *von Tuerckheim*, n. 8208 ex Pl. Guat. &c., quas ed. Donn. Sm.

Oreopanax meiocephalum Donn. Sm.—Praeter inflorescentiam glaberrimum. Folia simplicia integra lineari-lanceolata longe acutissimeque acuminata basi acuta breviter trinervia cum petiolo bis terve brevior utrinque incrassato subgeniculato-articulata. Panicula parva laxiflora, pedicellis gracilibus, capitulis subglabris parvis laxe 5–8-floris.

Ramuli cortice exfoliante pallidi. Folia crasse coriacea utrinque nitida 14–23^{cm} longa 3–4.5^{cm} lata, costa valida, nervis basilaribus prope marginem ascendentibus et 5–6^{cm} longis, petiolis validis 5–12^{cm} longis. Panicula leviter stellulato-pubescentia circiter 8^{cm} alta, ramis inferioribus 5–6^{cm} longis, pedicellis 5–8^{mm} longis, capitulis 3^{mm}-diametralibus. Petala saepius 5 filamentis aequilonga 1.25^{mm} longa. Styli coaliti. Flores feminini fructusque desunt.

Pansamalá, Depart. Alta Verapaz, Guat., alt. 1250^m, Apr. 1889, *J. Donnell Smith*, n. 1743 ex Pl. Guat. &c., quas ed. Donn. Sm.—(Sub *O. oligocarpum* Donn. Sm. olim distributum.)

Solanum evolvulifolium Greenman.—Caulis scandens gracilis parce ramosus bifariam pubescens. Folia alterna petiolata solitaria oblongo-ovata vel oblongo-lanceolata. Flores in cincinnis simplici vel bifurcato dispositi. Calyx cyathiformis breviter 5-lobatus. Corolla rotata.

Folia 1.5–3.5^{cm} longa 0.6–1.8^{cm} lata breviter acuminata acuta integra vel repando-undulata ad basin rotundata vel subcordata supra glabra vel solum in nervo medio hinc inde pilosula subtus glabra. Petioli 1.5–4^{mm} longi pubescentes. Calyx 3–4^{mm} altus breviter 5-lobatus, lobis submucronato-acutis. Corolla rotata circiter 12^{mm} longa alba, lobis lanceolato-oblongis 8^{mm} longis acutis plus minusve prope marginem puberulis ciliatis. Stamina 5 (cum vel absque sexto perabortivo) aequalia. Antherae filamentis longiores apice biporosae tardius longitudinaliter dehiscentes. Gynoecium glabrum. Bacca ovata vel subrotundata 7–14^{mm} longa. Semina circiter 2.5^{mm} longa.—*S. boerhaavifolium* Sendt. Brasiliensi habitu simile differt petiolis brevioribus et foliis cordatis.

La Palma, Prov. San José, Cost., alt. 1460^m, Sept. 1898, *H. Pittier*, n. 7413 ex Pl. Guat. &c., quas ed. Donn. Sm. (n. 12615 herb. nat. Cost.); Nov. 1897, *C. Wercklé*, n. 11599 herb. nat. Cost.

Solanum mitratum Greenman.—Caulis herbaceus glaber flexuosus. Folia solitaria vel gemina ovata vel lanceolata in petiolum brevem attenuata. Flores axillares solitarii vel gemini. Pedicelli plerumque petiolo longiores. Calyx turbinatus truncatus vel crenatus glaber. Corolla 5-partita purpurea.

Folia 5–15^{cm} longa 1.5–6^{cm} lata acuminata acuta integra supra viridia subtus pallidiora utrinque glabra. Pedicelli 1.5–2^{cm} longi plerumque ad apicem incrassati. Calyx 2–3^{cm} altus 10-nervatus paullo costatus. Corolla 5-partita purpurea, tubo brevi 3–4^{mm} longo, lobis lanceolatis acutis 3-nervatis. Antherae in tubo subconniventes. Bacca immatura subglobosa 8^{mm} diam., matura non visa.—*S. synanthero* Sendt. proximum differt caule herbaceo, petiolis brevibus, floribus paucioribus et pedicellis ad apicem incrassatis.

Atirro, Prov. Cartago, Cost., alt. 600^m, Apr. 1896, *J. Donnell Smith*, n. 6673 ex Pl. Guat. &c., quas ed. Donn. Sm.—San Pedro Sula, Depart. Santa Bárbara, Honduras, alt. 300^m, Maj. 1890, *C. Thieme*, n. 5375 ex Pl. Guat. &c., quas ed. Donn. Sm.

Solanum Sanctaeclarae Greenman (§ MEIOMERIS Dunal).—Arbuscula parva. Rami teretes cum foliis subferruginosi stellato-

pubescentes. Folia gemina inaequalia ovata ovato-elliptica vel obovata. Inflorescentia axillaris. Flores solitarii vel gemini. Calyx urceolatus persistens. Corolla rotata glabra.

Folia gemina inaequalia utrinque sparse stellato-pubescentia subferruginea supra atroviridia subtus pallidiora, majoribus ovatis vel ovato-ellipticis 1.2–2^{dm} longis 7–10^{cm} latis acuminatis acutis ad basin in petiolum brevem angustatis, minoribus ovatis vel subovatis subsessilibus. Flores circiter 2^{cm} longi solitarii vel gemini. Pedicelli usque ad 1^{cm} longi. Calyx urceolatus 10–12^{mm} altus latusque subtruncatus vel crenato-lobatus carnosulus et persistens extus stellato-pubescent. Corolla rotata glabra, tubo brevi quam lobi valvati circiter 3-plo brevior. Baccae maturae ignotae.—*S. synanthero* Sendt. habitu simile.

La Emilia, Llanuras de Santa Clara, Cost., alt. 250^m, Apr. 1896, *J. Donnell Smith*, n. 6783 ex Pl. Guat. &c., quas ed. Donn. Sm.

Solanum Tuerckheimii Greenman.—Folia alterna petiolata solitaria vel rarius gemina et maxime inaequalia oblongo-lanceolata. Flores minimi in cincinnis simplicibus dispositi. Calyx 5-lobatus. Corolla rotata.

Frutex erectus circiter 3^m altus undique glaber. Folia 1–2^{dm} longa 3–7^{cm} lata breviter-acuminata obtusa vel acuta integra ad basin in petiolum sensim angustatis supra livido-viridia subtus pallidiora subcoriacea, petiolis 1–2^{cm} longis. Inflorescentia suboppositifolia 3–4^{cm} longa multiflora, pedicellis gracilibus usque ad 1.5^{cm} longis ad apicem paullo incrassatis. Calyx 1.5–2^{mm} altus persistens, lobis ovatis obtusis. Corolla rotata circiter 7^{mm} diam., lobis lanceolato-triangularibus acutis et mox recurvatis. Stamina 5 aequalia, filamentis in tubo breviter coalescentibus. Antherae 2–2.5^{mm} longae apice biporosae. Gynoecium glabrum. Bacca immatura subrotundata glabra.—*S. tristo* Jacq. habitu simile, differt foliis utrinque glabris et inflorescentia longiore et floribus minoribus. *Solano Lindenii* Rusby foliis persimilis a quo inflorescentia longiore et corolla valde minore recedit.

Cubilquitz, Depart. Alta Verapaz, Guat., alt. 350^m, Jul. 1903, *von Tuerckheim*, n. 8492 ex Pl. Guat. &c., quas ed. Donn. Sm.

Brachistus lanceolatus Greenman.—Caulis suffruticosus. Folia gemina inaequalia lanceolata vel ovata acuminata vel acuta ad basin in petiolum brevem attenuata. Flores axillares solitarii. Calyx breviter 5-lobatus. Corolla alba 5-lobata. Stamina corollo breviora.

Caulis teres, ramis parce pubescentibus. Folia gemina, majoribus lanceolatis 3–8.5^{cm} longis 1–2.5^{cm} latis acuminatis acutis ad basin sensim attenuatis, minoribus lanceolatis et acutis vel ovatis et obtusis. Flores circiter 1^{cm} alti

et lati axillares solitarii. Pedicelli 1.5–2.5^{cm} longi filiformes ad apicem incrassati primo erecti vel ascendentes deinde reflexi. Calyx corolla circiter quater brevior. Baccae globosae 7–10^{mm} diam. in sicco plus minusve rubrae vel flavae.—*B. diversifolio* Miers affine foliis, &c., multo recedit.

Chucaneb, Depart. Alta Verapaz, Guat., alt. 1850^m, Apr. 1889, *J. Donnell Smith*, n. 1837 ex Pl. Guat. &c., quas ed. Donn. Sm.

Coccoloba Tuerckheimii Donn. Sm. (§ PANICULATAE Meissn.).—Folia oblongo-obovata abrupte brevissimeque acuminata basi acuta supra glabra subtus puberula, ocreis amplis glabris subrhomboideis insigniter nervosis paulo infra apicem cum petiolo articulatis. Panicula sessilis, axe primario brevi, secundariis simplicibus vel prope basin furcatis, pedicellis singulis ocreola multo longioribus.

Arbor grandis speciosa. Internodia ad apicem versus ramulorum brevissima ocreis imbricantibus oblecta striata glabra. Folia 13–34^{cm} longa 7.5–17^{cm} lata, nervis lateralibus utrinsecus 10–12 ad axillas subtus fusco-barbatis, venulis minutissime anastomosantibus, petiolis striatis 1.5–3.5^{cm} longis, ocreis praeter marginem membranaceum 6–9^{mm} latum coriaceis reticulato-nervosis circiter 3^{cm} longis et 2.5^{cm} latis 6–8^{mm} supra articulationem petioli productis. Paniculae axis 2–4^{cm} longus, racemi approximati 10–15 nonnunquam prope basin semel vel bis furcati suberecti vel nutantes 18–24^{cm} longi folia proxima superantes 2–3^{mm} crassi sulcati fusco-puberuli densiflori, pedicelli 1.5–2^{mm} longi. Perianthium fructiferum 13^{mm} longum 8^{mm} crassum, lobis late rotundatis arcte conniventibus fructum ovalem apice obtusatum velantibus. Flores desunt.

In apricis inundatis ad Cubilquitz, Depart. Alta Verapaz, Guat., alt. 350^m, Jul. 1903, *von Tuerckheim*, n. 8493 ex Pl. Guat. &c., quas ed. Donn. Sm.

Croton pyramidalis Donn. Sm. in BOT. GAZ. 35: 7. 1903.—Diagnosi adde: Dioicus. Inflorescentia feminina masculae similis. Calycis denique retroflexi segmenta 5–6 fere sejuncta oblonga intus glabra. Disci annularis glandulae distinctae conspicuae. Ovarium longe ciliato-lepidotum.

Cubilquitz, Depart. Alta Verapaz, Guat., alt. 350^m, Jul. 1903, *von Tuerckheim*, n. 8457 ex Pl. Guat. &c., quas ed. Donn. Sm.

Zebrina pendula Schnizl., var **villosa** C. B. Clarke.—Foliis subpetiolatis, elongatis, lanceolatis, in utrâque facie fulvo-villosis; inflorescentiis quasi sessilibus; filamentis glabris.

Robustior. Folia 11^{cm} longa, 3.5^{cm} lata; pili 3–4^{mm} longi. Calycis segmenta scarioso-brunnea apice fulvo-pilosa. Corollae tubus 5^{mm} longus, seg-

menta in sicco pallide coerulea laete brunneo-venosa.—Ad n. 766 *Bernoulli et Cario* accedens.

Cubilquitz, Depart. Alta Verapaz, Guat., alt. 350^m, Jan. 1902, *von Tuerckheim*, n. 8326 ex Pl. Guat. &c., quas ed. Donn. Sm.

Meliosma Donnellsmithii Urban.—Foliis alternis, ad apicem ramorum confertis, 3–7^{mm} longe petiolatis, obovato-oblongis, apice rotundatis, nunc brevissime acuminatis, ab $\frac{3}{4}$ – $\frac{4}{5}$ longitudinis usque ad basin longe et sensim angustatis, basi ipsa abrupte in petiolum contractis v. subcordatis, 25–45^{cm} longis, 8–12^{cm} latis, cr. 3-plo longioribus quam latioribus, planis, nervo medio supra subimpresso, lateralibus supra vix prominulis v. subimpressis, subtus crassiuscule prominentibus, chartaceis v. subcoriaceis, margine integris v. superne parvissime dentatis; petalis exterioribus 2.2–2.5^{mm} longis, interioribus parce et minute pilosulis integris; cupula antherifera apice rotundata, leviter sublongitrorsum dehiscentibus; disco vix evoluto; stylo integro.

Arbuscula 3–4^m alta (ex *Donnell Smith*). Rami hornotini subglabri; gemmae brevissime pilosulae. Folia nervis lateralibus 15–20, subangulo 45–55° abeuntibus, utrinque reticulato-anastomosantibus, supra in sicco glauco-olivacea, subtus pallide brunnea, ad nervum medium brevissime pilosa, caeterum glabra. Paniculae cr. 6^{cm} longe pedunculatae, cr. 25^{cm} longae, ad basin glabratae, caeterum brevissime et subadpresse pilosae; bractae triangulares v. triangulari-lanceolatae, cr. 1^{mm} longae; rami horizontaliter patentes; flores sessiles v. subsessiles, prophyllis 3–5 semiorbicularibus v. breviter orbicularibus 0.5–0.6^{mm} longis suffulti. Sepala semiorbicularia v. suborbicularia, apice rotundata, margine brevissime ciliata, 0.8^{mm} longa, 0.8–1^{mm} lata, chartacea. Petala exteriora suborbicularia coriacea, margine glabra, subinaequalia, interiora sublinearia, obtusiuscula, 1.8^{mm} longa, vix 0.5^{mm} lata, 1-nervia. Staminodia 1^{mm} longa, in $\frac{1}{5}$ alt. petalis adnata, apice truncata. Filamenta latiuscule linearia, 1.2^{mm} longa; cupula antherifera breviter, orbicularis, basi emarginata, 0.6^{mm} lata. Discus vix indicatus. Ovarium suborbiculare apice in stylum contractum. Stylus 0.8^{mm} longus, ovario duplo longior, subaequicrassus, basi oblique insertus. Stigma punctiforme.—Ambitu foliorum *M. Itatiaiae* Urb. a Brasilia valde similis.

Ad oras Río Turrialba, Prov. Cartago, Cost., alt. 500^m Mart. 1896, *J. Donnell Smith*, n. 6852 ex Pl. Guat. &c., quas ed. Donn. Sm.

BALTIMORE, MD.

Smith, John Donnell. 1904. "Undescribed Plants from Guatemala and Other Central American Republics. XXV." *Botanical gazette* 37(3), 208–214.

<https://doi.org/10.1086/328466>.

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