

Gesneracearum Novitates.

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Ancylostemon,* Craib, gen. nov.

Calyx ad medium vel ultra medium 5-lobatus, rarius fere ad basem 5-partitus, lobis segmentisve inter se subaequalibus lanceolatis lateve lanceolatis interdum margine denticulatis. Corolla tubulosa, supra medium postice plus minusve ventricosa, ima basi parum gibbosa, limbo e labiis duobus haud patentibus postico 2-lobato vel subintegro antico 3-lobato postico saepissime conspicue longiore constituto. Stamina 4, filamentis infra corollae

* Name derived from ἀγκύλη and στήμων, suggested by the bend at top of the filaments.

[Notes, R.B.G., Edin., No. LV, November 1919.]

tubi medium insertis rectis sed apice subito inflexis, antheris per paria cohaerentibus rimis longitudinalibus dehiscentibus. Discus conspicuus, pistilli basem laxè cingens. Ovarium superum, lineare, breviter stipitatum, superne in stylum angustatum, stigmatibus bilobulato, placentis intrusis bilamellatis facie interiore nudis. Capsula linearis vel subclavato-linearis, valvis rectis haud tortis.—Herbae acaules; folia omnia basalia, saepius dense rosulata, matura distincte petiolata, varie pilosa vel subhirsuta, margine crenulata vel saepius crassius denticulata lobulatave, penninervia, nervis subtus prominentibus. Scapi solitarii vel plures, glanduloso-pilosi, inflorescentiam cymosam umbelliformem plurifloram gerentes, rarius uniflori. Calyx saepissime viridis. Corolla lutea, extra plus minusve glanduloso-pilosa.

Ancylostemon concavum, Craib, sp. nov.

Herba acaulis, rhizomate recto saepissime brevi radices numerosas gerente. Folia ut videtur subrecta haud patula, ovata vel oblongo-ovata, apice acuta, basi saepe inaequilateralia, truncata cordatave, usque ad 10 cm. longa et 6 cm. lata, membranacea vel submembranacea, supra iuventute breviter subsericea praeterea pilis longis brunneis sparse instructa, indumento cito laxiore, subtus indumento simili sed ad costam nervosque laterales densiore tecta, nervis lateralibus utrinque 5-7 intra marginem furcatis supra subconspicuis subtus prominulis, margine dentato-lobulata, lobulis saepissime acutis latere inferiore pauci-serrulatis superiore saepissime integris, interiora brevius petiolata, exteriora petiolo usque ad 11 cm. longo supra saltem superne canaliculato et pilis brevioribus albis divergentibus et pilis longis brunneis tecto suffulta. Pedunculi plures vel sat numerosi, infructescentes folia exteriora vix aequantes, plus minusve rubescentes, indumento ei petiolorum simili sed multo laxius tecti, uniflori vel saepius cymam corymbiformem plurifloram gerentes; bractae virides, lineares vel lanceolatae, acutae, ad 1 cm. longae, pilis et brevibus albis et longis brunneis instructae, pedicellis inaequalibus terminalibus ad 3.5 cm. longis. Calyx viridis, extra pilis et brevibus albis et longis brunneis subsparse tectus, sub anthesin campanulatus vel haud rarius oblongo-campanulatus, circa 11 mm. longus, tubo lobis circa duplo longiore, lobis rarius integris saepissime pauci-serrulatis, intra subglaber, post anthesin accrescens, late campanulatus, ad 16 mm. longus, in fructu persistens. Corolla extra pilis longiusculis albis sat dense instructa, intra pilis brevibus albis sparse instructa; tubus 2 cm. longus, postice superne parum inflatus; labium posticum 3 mm. longum, basi circa 4.5 mm. latum, lateribus concavum vel subrectum, apice truncatum, brevius bilobulatum, lobulis emarginatis incrassatis, anticum 3-partitum,

segmentis inter se subaequalibus oblongis vel obovato-oblongis 5-7 mm. longis 3.5-4 mm. latis. Stamina antica corollae tubo subaequalia, filamentis circa 14 mm. supra corollae basem insertis, filamentis lateralibus anticis paulo inferius insertis cum anticis glabris; antherarum loculi circa 0.75 mm. longi; stamen posticum ad staminodium 1 mm. longum glabrum circa 8 mm. supra corollae basem insertum redactum. Discus glaber, 3-3.5 mm. altus, inaequaliter 5-lobulatus, lobis apice rotundatis. Ovarium stipite circa 4 mm. longo incluso 1.3 cm. altum, glabrum vel pilis brevibus hic illic instructum, stylo 6 mm. longo, stigmatibus stylo latiore. Capsula stipite incluso saepissime 4-4.5 cm. longa, calyce styloque vel huius saltem parte inferiore persistentibus.

Yunnan. Mekong-Yangtze divide; Kari Pass, 11,000 ft. Lat. 27° 40' N. Plant of 4-7 inches. Flowers deep orange. On trunks of trees and moss-covered boulders in shady situations. G. Forrest, 12,943. Flr. et fr. Aug. 1914.

To this species probably also belongs the following plant collected in fruit only:—

Yunnan. Mekong-Salwin divide, 10,000 ft. Lat. 28° 10' N. Plant of 3-5 inches; in fruit. On trees and rocks in shady situations. G. Forrest, 13,445. Fr. Oct. 1914.

Ancylostemon convexum, Craib, sp. nov.

Herba acaulis, rhizomate perenni brevi radices numerosas emittente. Folia ovato- vel lanceolato-oblonga, rarius ovata, apice acuta, basi late cuneata vel saepe cordatula, usque ad 14 cm. longa et 7.5 cm. lata, membranacea vel chartaceo-membranacea, supra viridia, primo subsericea et pilis longis brunneis instructa, indumento mox multo laxiore, subtus pallidiora, indumento subsimili tecta sed ad costam nervosque laterales brunneo-barbata, nervis lateralibus utrinque 5-8 intra marginem furcatis supra subconspicuis vel fere obscuris subtus prominulis, margine longius brunneo-ciliata, dentato-lobulata, lobulis margine inferiore pauci-serratis superiore saepissime integris, petiolo ad 9 cm. longo pilis longis brunneis lanuginoso et albis breviter pubescente suffulta. Pedunculi saepissime plures, indumento ei petiolorum simili sed multo laxiore tecti, flores saepissime plures in cymam umbelliformem dispositos gerentes, bracteis angustis circa 6 mm. longis, pedicellis inaequalibus ad 2 cm. longis. Calyx viridis, campanulatus vel oblongo-campanulatus, extra pilis et longis brunneis et brevibus albis tectus, circa 7 mm. longus, ad medium lobatus, lobis oblongo-lanceolatis vel oblongo-ovatis apice obtusis subintegris vel saepius pauci-denticulatis trinerviis. Corollae tubus 2 cm. longus, extra subsparsa albo-pubescentibus; labium posticum rotundatum, emarginulatum,

4 mm. longum, 7 mm. latum, anticum ad basem tripartitum, segmentis subellipticis vel ovato-ellipticis lateralibus mediano paulo brevioribus circa 6.5 mm. longis et 4 mm. latis omnibus ciliatis. Antherae anticae corollae tubum paululo superantes, laterales corollae tubum vix aequantes, filamentis omnibus parce pubescentibus, anticis circa 15 mm. supra tubi basem et 3.5 mm. supra lateralalia affixis. Discus 1.5 mm. altus, apice 5-lobulatus, glaber. Ovarium circa 9 mm. altum, stipite calyci subaequalto suffultum, stylo 5 mm. longo, stigmate bilobulato. Capsula, stipite incluso, circa 3 cm. longa.

Yunnan. Eastern flank of the Tali Range, 9000–10,000 ft. Lat. 25° 40' N. Plant of 4–8 inches; flowers deep ruddy orange. On humus-covered boulders and trees. G. Forrest, 7105. Fl. July 1910.

Ibid. G. Forrest, 4803. Fl. June–July 1906. G. Forrest, 15,483. Fl. et fr. Aug. 1917. G. Forrest, 15,930. Fl. Aug.–Sept. 1917.

Forrest, 4803, was identified by Diels as *Didymocarpus aurea* (Franchet) Diels (v. Notes Roy. Bot. Gard. Edin., vii, p. 271). Franchet distinctly states that his species of *Roettlera* have all got 2 stamens only, not 4.

Briggsia,* Craib, gen. nov.

Calyx in segmenta 5 inter se aequalia vel subaequalia saepissime lanceolata conspicue obscureve 3–5-nervia in alabastris aperta partitus. Corolla speciosa, ima basi cylindrica, postice plus minusve gibbosa, deinde antice conspicue inflata et interdum postice etiam sed minus conspicue inflata, bilabiata; labium posticum 2-lobatum, anticum 3-lobatum, postico longius. Stamina 4, inclusa, antheris per paria cohaerentibus rimis in unam arcuatam mox confluentibus dehiscentibus, filamentis arcuatim inflexis ad corollae tubi basem vel paulo altius affixis; stamen posticum ad staminodium redactum. Discus conspicuus, cupularis cylindricusve, pistilli basem laxè arctève cingens. Ovarium superum, basi in stipitem brevem attenuatum, stylo conspicuo, stigmate mediocri bilobulato incluso, placentis bipartitis intrusis facie interiore nudis. Capsula elongata, linearis vel superne paulo ampliata, valvis rectis; semina minuta, fusi-formia.—Herbae acaules, rhizomate crasso, foliis omnibus basalibus, rarius caulescentes, rhizomate tenuiore. Folia simplicia, subsessilia vel distincte petiolata, pilis albis brunneisve

* Named in honour of Munro Briggs Scott, M.A., B.Sc., who fell in the battle of Arras in the spring of 1917. His work as a systematic botanist was only begun, but in his brief tenure of the post of Assistant in the Herbarium attached to the Royal Gardens, Kew, he gave exceptional promise of a very brilliant career.

transverse septatis flaccidis rarius rigidis instructa, vel in speciebus paucis glabra, penninervia, margine varie denticulata vel subintegra. Pedunculi plures, uniflori vel cymam plurifloram umbelliformem gerentes, bracteis conspicuis.

Briggsia Forrestii, Craib, sp. nov.

Herba perennis, acaulis, rhizomate brevi radices numerosas emittente. Folia ut videtur saepissime prostrata, ovato-oblonga, oblonga vel lanceolato-ovata, apice rotundata, rarius obtusa, basi rotundata vel cuneato-rotundata, haud rarius inaequilateralia, usque ad 15 cm. longa et 8 cm. lata, chartacea, supra sicco vel ad costam nervosque laterales albescentia et aliter viridia vel omnino fuscescentia, pilis longis brunneis transverse septatis e pyramide viridi singulatim ortis laxe tecta et pilis brevissimis glanduloso-capitatis hic illic instructa, subtus pallidiora, ad costam nervosque pilis brunneis similibus tecta praetereaque albo-puberula et sparse minuteque glandulosa, nervis lateralibus utrinque 6-8 supra conspicuis vel subconspicuis subtus prominulis, margine subacute vel obtuse denticulata, petiolo usque ad 6 cm. longo supra planiusculo indumento ei foliorum paginae inferioris simili tecto suffulta. Pedunculi communes plures, saepissime circa 12 cm. alti, plus minusve rubescentes, pilis longis brunneis transverse septatis praesertim inferne tecti et albo-puberuli et pilis albis brevibus glanduloso-capitatis instructi, 1-2-flori; bractee virides, circa 3 mm. longae; pedicelli circa 2 cm. longi, glanduloso-pilosuli et saepe pilis paucis longis brunneis instructi. Calyx plus minusve rubescens, dorso pilis longis brunneis transverse septatis sparse tectus et breviter albo-pubescentibus pilis hic aliis glanduloso-capitatis aliis haud glandulosis, in segmenta 5 lanceolato-oblonga obtusa 5 mm. longa 2 mm. lata ciliata intra setulis paucis instructa fere ad basem partitus. Corollae tubus 3.4 cm. longus, extra praesertim inferne sparse glanduloso-pilosulus; labium posticum circa 8 mm. longum, 10 mm. latum, bene ultra medium in lobos late oblongos apice emarginatos circa 6 mm. latos imbricatos bifidum, anticum circa 2 cm. longum, vix ad medium 3-lobatum, lobis late ellipticis imbricatis circa 9 mm. latis emarginatis retusisve, lobis omnibus pilis capitatis transverse septatis ciliatis, sinu inter labia lato basi rotundato, labiis ambobus et tubo intra pilis capitatis transverse septatis sparse tectis. Stamina antica lateralialia paululo superantia, 4 mm. supra corollae basem et 5.5 mm. infra lateralialia inserta, filamentis omnibus subdense glanduloso-pubescentibus, lateralibus anticis paulo tenuioribus; antherae suborbiculares vel transverse late ellipticae, rimis mox confluentibus, connectivo glabro; stamen posticum ad staminodium breve circa 3 mm. supra corollae basem insertum redactum.

Discus 1.5 mm. altus, apice undulatus. Ovarium stipite 7–8 mm. longo ovario vix angustiore subglabro incluso 2 cm. longum, pilis capitatis transverse septatis instructum; stylus cum stigmate bipartito 3 mm. longo 9 mm. longus, pilis iis ovarii similibus sed numerosioribus tectus. Capsula stipite incluso 4–5.5 cm. longa.

Yunnan. Shweli-Salwin divide, 10,000 ft. Lat. 25° 30' N. Plant of 4–7 inches. Flowers pale rosy-purple, lined deeper, with a tinge of yellow on lip. Moist shady moss-covered rocks. G. Forrest, 16,096. Fl. et fr. Sept. 1917.

Ibid. 8000–9000 ft. G. Forrest, 17,552. Fl. et fr. June 1918.

Shweli Valley, 5000–6000 ft. Lat. 24° 50' N. Plant of 3–6 inches. In fruit. On trees and rocks in shady situations. G. Forrest, 7985. Fr. May 1912.

In the absence of flowers the latter plant, collected in a late fruiting condition, may probably belong to a distinct species, but in its characters it shows a strong resemblance to the flowering specimens of later collecting.

The following plant, represented by inadequate material, agrees with this species in habit and superficial characters:—

Upper Burma. Valley of Naung-chaung. Flowers purple, throat of corolla striped and mottled with white on lower half. On wet rock slabs, in deep shade of forest and gullies or in river bed. Ward, 1888.

Briggsia longifolia, Craib, sp. nov.

Herba acaulis, rhizomate brevi radices numerosas rigidas emittente. Folia lanceolata, apice acuta vel subacuta, basi in petiolum attenuata, usque ad 23 cm. longa et 3 cm. lata, rigide chartacea, supra viridia, pilis albis brevibus rigidis marginem versus numerosioribus hirsuta, subtus pallidiora, pilis longioribus praesertim ad costam instructa, praetereaue pagina utraque pilis brevibus glanduloso-capitatis subsparsae instructa, nervis lateralibus utrinque 6–8 sat obliquis supra subconspicuis subtus prominulis, costa pagina superiore conspicua inferiore prominente, margine serrulata, ciliata, petiolo lamina decurrente superne anguste alato ad 8 cm. longo pilis albis longiusculis divergentibus tecto praetereaue pilis brevibus glanduloso-capitatis subsparsae instructo suffulta. Pedunculi communes plures, folia saepissime subaequantes, 2–5-flori, indumento ei petiolorum simili tecti; bracteae 2, virides, angustae, circa 4 mm. longae; pedicelli sub anthesin saepissime circa 3 cm. longi. Calyx viridis, extra pilis rigidis transverse septatis instructus, intra nisi summum apicem versus glaber, 6.5 mm. longus, in segmenta 5 lanceolata vel oblongo-lanceolata apice acuta 2.5 mm. lata ciliata partitus.

Corolla extra praesertim inferne pilis glanduloso-capitatis subsparse tecta; tubus circa 22 mm. longus, intra pilis glanduloso-capitatis sparsis instructus; labium posticum 3 mm. longum, basi 9 mm. latum, ad medium lobatum; labium anticum circa 10 mm. longum et 12 mm. latum, vix ad medium 3-lobatum, lobis omnibus ciliatis. Stamina antica corollae tubo subaequalia, lateralibus paululo superantia; filamenta glabra, antica circa 2.5 mm. supra corollae tubi basem et 4 mm. infra lateralibus inserta; antherae circa 1.75 mm. longae et 2 mm. latae; stamen posticum ad staminodium circa 1 mm. longum glabrum circa 3 mm. supra corollae basem insertum redactum. Discus 1.5–1.75 mm. altus, glaber, apice subintiger vel distincte undulato-lobatus. Ovarium stipite brevi incluso 12 mm. longum, glabrum, stylo 4.5 mm. longo pilis glanduloso-capitatis tecto, stigmate bilobato. Capsula, stipite incluso, ad 5 cm. longa.

Yunnan. Western flank of the Shweli-Salwin divide, 10,000 ft. Lat. 25° 20' N. Plant of 6–12 inches. Flowers deep orange. On ledges of cliffs and on humus-covered boulders. G. Forrest, 8984. Fl. et fr. Aug. 1912. 15,828. Fl. et fr. Aug. 1917.

Shweli-Salwin divide. Lat. 25° 30' N. Alt. 8000 ft. Plant of 6–10 inches. Flowers yellow, flushed deep purple-crimson at margins. On trees and rocks in shady side valleys. G. Forrest, 17,619. Fl. et fr. July, Aug. 1918.

Briggsia Mairei, Craib, sp. nov.

Rhizoma crassum. Folia omnia basalia, ovata, oblongo-ovata oblongave, apicem versus angustata, basi cordata vel cordatula, usque ad 7 cm. longa et 4.7 cm. lata, chartacea vel rigide chartacea, pagina superiore pilis albis longiusculis transverse septatis laxius tecta, inferiore pallidiora, ad costam nervosque laterales pilis longis brunneis cito agglutinis oblecta, aliter pilosula, nervis lateralibus utrinque 4–5 subtus prominulis bene intra marginem furcatis, margine grossius dentata vel crenato-dentata, petiolo ad 10 cm. longo pilis longis brunneis cito agglutinis oblecto suffulta. Pedunculi communes solitarii vel bini, ad 15 cm. alti, pilis longiusculis brunneis transverse septatis instructi, apice bibracteati, bracteis dorso brunneo-barbatis, inflorescentiam umbelliformem paucifloram gerentes; pedicelli usque ad 3.8 cm. longi. Calyx extra dense brunneopilosus, intra glaber, segmentis 5 inter se vix aequalibus lanceolatis vel oblongo-lanceolatis circa 6 mm. longis 1.5–2.5 mm. latis 5-nerviis, nervis intramarginalibus obscuris. Corolla violacea (ex *Maire*), extra basem versus dense brunneo-glanduloso-pilosa, superne pilis multo brevioribus capitatis sparse instructa, intra sparse glanduloso-pilosa, pilis omnibus transverse septatis; tubus circa 2.8 cm. longus; labium posticum 5 mm. longum,

bilobulatum, anticum circa 1.5 cm. longum, 3-lobatum, lobis oblongo-rotundatis circa 7.5 mm. longis. Stamina inclusa; filamenta 4.5-6 mm. supra tubi basem inserta, inferne glanduloso-villosa. Discus circa 2 mm. altus, ob plicas longitudinales primo aspectu 5-partitus, stipitem laxe cingens. Ovarium stipite incluso 1.9 cm. altum, glabrum, stylo 7 mm. longo, stigmatibus bilobato.—*Didissandra saxatilis*, Lévl., Cat. Pl. Yunnan, p. 123, non Hemsl.

Yunnan. Tong-tchouan, 2700 m., Maire, 210, 213, 7455. Fl. Sept.; ibid., 2600 m., Maire, 285 et sine num. Fl. Oct. Ta-hai, 3000 m., Maire. Fl. July.

***Didissandra bhutanica*, Craib, sp. nov.**

Herba nana, interdum stolonifera. Folia rosulatum disposita, ovato-lanceolata vel elliptica, apice obtusa vel rotundata, basi in petiolum cuneatim angustata, usque ad 20 mm. longa et 13 mm. lata, sed saepissime minora, coriacea, supra viridia, mox nisi ima basi medio glabra, subtus pallidiora, ad costam nervosque laterales dense cinnamomeo-lanuginosa, inter nervos sparse albo-vel brunneo-pilosa, nervis lateralibus utrinque 2-3, supra saepissime impressis subtus prominentibus, margine integra vel sub-integra, petiolo circa 13 mm. rarissime ad 20 mm. longo iuventute dense cinnamomeo-lanuginoso suffulta. Pedunculi saepissime plures, uni- vel pluri-flori, floribus umbellatim dispositis, ad 6 cm. alti, pilis longiusculis transverse septatis superne subdense inferne sparse instructi. Calyx fuscus, extra glaber vel subglaber, 5-partitus, segmentis inter se subaequalibus lanceolatis vel lineari-lanceolatis apice obtusis circa 3.5 mm. longis et 1 mm. latis trinerviis. Corollae tubus 7.5 mm. longus, intra antice pilosus, pilis plerisque in lineas duas cum lobis alternantes dispositis; labium posticum 3.25 mm. longum, ad medium lobatum, lobis oblongis truncatis, anticum fere 5 mm. longum, paulo ultra medium trilobatum, lobis oblongis apice rotundatis. Stamina 4, antheris per paria cohaerentibus, filamentis glabris, antica subinclusa; stamen posticum ad staminodium parvum redactum. Discus annuliformis. Pistillum calyce subaequialtum, stylo ovario paulo longiore. Capsula ad 16 mm. longa.

Bhutan. Dotena Timpu, 8000 ft., on sloping rock faces. R. E. Cooper, 2508 (type). Tilagong Timpu, 6000 ft., in crevices of rocks. R. E. Cooper, 2437. Chukha Timpu, 4400 ft., in crevices of rocks. R. E. Cooper, 1244.

***Didissandra bullata*, Craib, sp. nov.**

Rhizoma crassum. Folia omnia basalia, matura laxa, juniora dense rosulatum disposita, patentia, lanceolata, oblanceo-

lata ovatave, apicem versus angustata, summo apice obtusa, basi cuneata, in petiolum angustata, usque ad 3 cm. longa et 1.7 cm. lata, coriacea, supra conspicue bullata, iuventute pilis longis paucis instructa, matura subglabra, subtus ad costam nervosque dense cinnamomeo-lanuginosa, pilis saepe mox agglutinatis, aliter cinnamomeo-pilosa, nervis lateralibus utrinque 3-4 subtus valde prominentibus supra impressis, margine crassius denticulata vel crenato-serrata, matura petiolo ad 2 cm. longo supra parce longe piloso subtus dense cinnamomeo-lanuginoso suffulta. Pedunculi communes ad 7, primo dense cinnamomeo-lanuginosi, demum glabrescentes, ad 9 cm. alti, inflorescentiam multifloram subcongestam umbelliformem gerentes; pedicelli ad 1 cm. longi. Calyx cito glaber, sicco fuscus, in segmenta 5 inter se subaequalia oblonga vel oblongo-lanceolata apice obtusa 3- vel 5-nervia, nervis paulo infra apicem coniunctis, vix 4 mm. longa 1.5 mm. lata partitus. Corollae tubus 9.5-10 mm. longus, intra postice glaber, antice pilis plerisque in lineas duas cum lobis alternantes dispositis instructus, limbo bilabiato, labio postico 2.5 mm. longo bilobato, antico 5.5 mm. longo bene ultra medium 3-lobato lobis oblongis apice rotundatis. Antherae per paria cohaerentes, filamentis glabris, staminibus anticis corollae tubo subaequilongis. Discus annularis. Pistillum calyce paulo longius, stylo apice bilobulato ovario paulo brevius. Capsula fusca, ad 1.6 cm. longa, valvis haud tortis.—*D. lanuginosa*, Lévl., Cat. Pl. Yunnan, p. 123, pro parte, vix C. B. Clarke.

Yunnan. Mi-cote à Tong-tchouan, 2600 m., sur les rochers. Fleurs bleu de ciel. E. E. Maire. Fl. July-Aug.

Didissandra Cooperi, Craib, sp. nov.

Herba nana, rosulata, saepe stolonifera; rhizoma superne petiolis persistentibus anni praeteriti densius tectum. Folia densa, ut videtur saltem interiora viva erecta vel suberecta, lanceolata vel oblongo-lanceolata, interdum subspatulata, supra primo plana, mox concava, apice obtusa, basi cuneata, plerumque 5-8 mm. longa, 3-3.5 mm. lata, coriacea, supra viridia, glabra, subtus parum pallidiora, ad costam densius cinnamomeo-lanata, demum senectute albescentia, glabrescentia, costa pagina inferiore inferne prominente, nervis lateralibus utrinque 3 plerumque omnino obscuris interdum senectute subtus subconspicuis, margine saepissime integra, rarissime apicem versus paucicrenulata, petiolo circa 2.5 mm. longo supra plano primo longius cinnamomeo-lanato demum glabrescente suffulta. Pedunculi communes uniflori, gracillimi, ad 4 cm. longi, primo lanati, cito glabrescentes. Calycis segmenta lineari-lanceolata, obtusa, duo antica aliis paululo longiora, 2 mm. longa, 0.75 mm. lata, glabra, trinervia, nervis plerumque omnino obscuris. Corollae tubus

vix 7 mm. longus, parte basali subcylindrica 1.5 mm. longa, extra glaber, intra antice pilis longiusculis unicellularibus pro parte maxima in lineas duas cum lobis alternantes dispositis lineis loborum bases et vix staminum insertionem attingentibus, pilis paucis infra staminum insertionem vix ad tubi basem additis, postice glaber; labium anticum ad 5 mm. longum, ultra medium lobatum, lobis oblongis vel obovato-oblongis apice rotundatis ad 3 mm. longis et 2.5 mm. latis, mediano lateralibus paulo longiore, posticum 3 mm. longum, basi 3.75 mm. latum, ad medium lobatum, lobis approximatis basi 1.75 mm. latis. Antherae circa 0.75 mm. longae, apice truncatae, basi emarginatae; filamenta antica 2.5 mm. longa, 3.5 mm. supra corollae tubi basem inserta, lateralia 1.75 mm. longa, 2.5 mm. supra corollae tubi basem inserta, omnia glabra; staminodium circa 0.4 mm. longum, clavatum, glabrum, prope corollae tubi basem insertum. Discus vix 0.25 mm. altus, integer. Ovarium calyce paulo brevius, in stylum 1.5 mm. longum angustatum, glabrum, stigmate emarginato.

Bhutan. Dotena Timpu, 8000 ft. Cooper, 2508/a.

Didissandra cordatula, Craib, sp. nov.

Herba nana, rhizomate crasso. Folia rosulata, ut videtur viva patula, quoad formam variabilia, plerumque ovata, oblonga vel rarius suborbicularia, apice obtusa vel rotundata, basi rotundata, cordata vel late cuneata, usque ad 3 cm. longa et 2 cm. lata, coriacea, supra sicco fusco-viridia, iuventute pilis longis albidis vel pallide cinnamomeis medio inferne barbata, mox glabra, subtus pallidiora, tantum ad costam nervosque laterales longe cinnamomeo-lanata, aliter glabra, nervis lateralibus utrinque 4-5 cum costa supra subconspicuis vel plerumque plus minusve impressis subtus prominentibus rectis intra marginem furcatis, nervis transversis omnino obscuris, margine ciliata, crenata vel serrato-crenata, exteriora petiolo crasso ad 15 mm. longo indumento nervorum tecto suffulta, interiora sessilia. Pedunculus communis floriferus 8-9 cm. altus, rectus vel inferne arcuato-adscendens, infrutescens 11 cm. longus, primo plus minusve cinnamomeo-lanatus, mox glaber, pluriflorus; pedicelli 8-18 mm. longi, graciles, infrutescentes ad 25 mm. longi, indumento pedunculorum. Calycis segmenta oblonga, oblongo-lanceolata vel ovato-lanceolata, apice obtusa, circa 2 mm. longa et 1 mm. lata, intra glabra, extra glabrescentia, 5-nervia, nervis intramarginalibus tenuibus, omnibus infra apicem confluentibus. Corollae tubus 7-8 mm. longus, extra glaber, intra pilis unicellularibus pro parte maxima in lineas duas cum lobis alternantes e loborum basibus fere ad staminum insertionem currentes dispositis perpaucis infra staminum insertionem antice ornatus;

labium posticum 1.5–1.75 mm. longum, basi 3–3.5 mm. latum, lobis apice rotundatis vel emarginatis 0.75–1 mm. longis, anticum 3–3.5 mm. longum, lobis oblongo-obovatis vel subquadrato-obovatis apice rotundatis ad 2.75 mm. longis et 2.5 mm. latis. Filamenta glabra, antica 4.5 mm. longa, 2.5 mm. supra corollae tubi basem inserta, lateralia 3.25 mm. longa, 2 mm. supra corollae tubi basem inserta; staminodium 0.75 mm. longum, glabrum, circa 0.75 mm. supra corollae tubi basem affixum; antherae apice truncatae, basi emarginulatae. Discus subannularis, circa 0.25 mm. altus. Ovarium calycem paulo superans, glabrum, stylo 4 mm. longo, stigmatē emarginato. Capsula 2 cm. longa, calyce diu persistente demum deciduo.

W. Hupeh. Wilson, 2170.

Didissandra flabellata, Craib, sp. nov.

Rhizoma crassum, radices fibrosas copiose emittens. Folia omnia basalia, patentia, matura laxa, juvenilia congesta, obovata vel flabelliformia, rarius subovata, apice rotundata subtruncatave, basi in petiolum cuneatim angustata, usque ad 3.3 cm. longa et 2.5 cm. lata, coriacea, supra viridia, ad nervos glabra, aliter pilis longis sericeis plus minusve persistentibus subcopiose ornata, subtus pallidiora, ad costam nervosque laterales cinnamomeo-lanuginosa, aliter dense sericea, nervis lateralibus utrinque 3–4 bene intra marginem furcatis supra impressis subtus prominentibus, margine crenata, longius albo-ciliata, exteriora petiolo ad 3 cm. longo praesertim lateribus pilis longis sericeis ornato suffulta. Pedunculi rarius solitarii, primo albo-lanati, mox plus minusve glabrescentes, usque ad 12.5 cm. alti. Calyx iuventute sericeus, cito glabrescens, in segmenta 5 inter se subaequalia oblonga vel oblongo-lanceolata apice obtusa 3 mm. longa et 1 mm. lata 3- vel subobscure 5-nervia partitus. Corollae tubus 5.5 mm. longus, intra antice pilis pro parte maxima in lineas duas cum lobis alternantes dispositis densius instructus, limbo bilabiato; labium posticum 2 mm. longum, ultra medium bilobatum, anticum 3–4 mm. longum, ultra medium trilobatum. Filamenta glabra, antheris per paria cohaerentibus. Discus annularis. Ovarium calyci subaequialtum, stylo parum brevius. Capsula straminea, circa 1.2 cm. longa.

Yunnan. Eastern flank of the Tali Range, 8000–10,000 ft. Lat. 25° 40' N. Plant of 2–6 inches. Flowers dark blue. Faces of cliffs and on humus-covered boulders. G. Forrest, 7129. F. Aug. 1910.

Ibid., 7000–9000 ft. Flowers deep blue or blue and white. Open dry situations on rocks and cliffs. G. Forrest, 4804.

Didissandra grandis, Craib, sp. nov.

Herba perennis; rhizoma crassum, ad 2 cm. diametro, superne petiolorum basibus anni praeteriti persistentibus tectum. Folia rosulata, plana, patula, late lanceolata vel ovato-lanceolata, apicem versus angustata vel rarissime subacuminata, summo apice obtusa, basi late cuneata vel cuneata, in petiolum angustata, usque ad 9 cm. longa et 4.5 cm. lata, valde coriacea, supra glabra, matura saepe siccando atra, subtus dense cinnamomeo-lanata, senectute saepe albicantia, nervis lateralibus utrinque 4-6 cum costa supra impressis subtus valde prominentibus intra marginem furcatis ramis subtus prominentibus, margine integra, saepe incurva, breviter cinnamomeo-lanato-ciliata, petiolo usque ad 5.5 cm. longo valido superne alato supra plano subtus plano-convexo suffulta. Pedunculi plures, arcuato-adscendentes, satis robusti, usque ad 15 cm. alti, dense cinnamomeo-lanati, seniores albo-lanati, pluri- vel multi-flori; pedicelli sub anthesin usque ad 15 mm. longi sed saepissime vix 10 mm. longi, infructescentes paululo elongati, ut pedunculi lanati. Calycis segmenta ovato-lanceolata vel oblonga, apice obtusa, inter se subaequalia, vix 3 mm. longa, 1.25 mm. lata, dorso dense longe cinnamomeo-lanata, intra glabra, margine apicem versus ciliolata, 5-nervia, nervis infra apicem coalitis, intramarginalibus aliis tenuioribus minus distinctis. Corollae tubus 10-11 mm. longus; labium posticum 4 mm. longum, basi 7.5 mm. latum, 2-lobatum, lobis apice rotundatis 2 mm. longis fere 3 mm. latis; labium anticum 6.5 mm. longum, 3-lobatum, lobis circa 5 mm. longis et 4.5 mm. latis elliptico-obovatis apice rotundatis, lobis omnibus pauperrime ciliatis; corolla pilis longiusculis unicellularibus e loborum basibus usque infra staminum insertionem vix in lineas dispositis intus antice instructa, postice omnino glabra. Filamenta glabra, antica 4 mm. longa, 5 mm. supra corollae tubi basem inserta, lateralia 3 mm. longa, 3 mm. supra corollae tubi basem inserta, antheris apice truncatis basi emarginatis; staminodium 1.5 mm. longum, 1.5 mm. supra corollae tubi basem insertum. Discus circa 0.4 mm. altus, integer. Ovarium glabrum, calyce paulo brevius, stylo 2.75 mm. longo, stigmate emarginato. Capsula 15-17 mm. longa, pro longitudine lata, calyce persistente.

Mountains of the Chungtien plateau. Lat. 27° 55' N. Plant of 4-6 inches. Flowers blue and white. On dry shady rocks, 10,000 ft. Forrest, 10,855.

Kari Pass, Mekong-Yangtze divide. Lat. 27° 40' N. Plant of 10 inches. Flowers purple-blue and white. Open shady dry rocks, 11,000 ft. Forrest, 12,924.

Didissandra Labordei, Craib, sp. nov.

Rhizoma crassum. Folia omnia basalia, rosulatum disposita, ovato-lanceolata, oblongo-obovata vel elliptico-oblonga, apice obtusa vel rotundata, basi cuneata, usque ad 3.5 cm. longa et 1.8 cm. lata, coriacea, supra viridia, pilis elongatis albis sparse sericea, mox plus minusve glabrescentia, subtus ad costam nervosque laterales dense ferrugineo-lanata, pilis mox agglutinatiss, aliter albo- vel mox cinnamomeo-pilosa, nervis lateralibus utrinque circa 4 bene intra marginem furcatis supra impressis subtus valde prominentibus, margine crenata, petiolo ad 2.5 cm. longo indumento ei foliorum simili tecto suffulta. Pedunculi plures, ad 9 cm. alti, pilis paucis longis instructi, fusciscentes; pedicelli circa 1 cm. longi. Calyx extra sub anthesin paucipilosus vel fere glaber, in segmenta 5 lanceolata vel oblongo-lanceolata apice obtusa inter se subaequalia vix 3 mm. longa et 1 mm. lata trinervia vel indistincte 5-nervia nervis infra apicem concurrentibus partitis. Corollae tubus 7 mm. longus, intra antice pilis bilineatim dispositis subsparse instructus; labium posticum 2.5 mm. longum, paululo ultra medium bilobatum, anticum 3.5 mm. longum, 3-partitum, segmentis oblongis apice rotundatis. Antherae per paria cohaerentes. Discus annularis. Ovarium calycem subaequans, stylo ovario paulo longiore, stigmate bilobato. Capsula ad 2.5 cm. longa, valvis rectis.—*D. lanuginosa*, Lévl., Fl. Kouy-Tcheou, p. 182, *vix* Clarke.

Kouy-Tcheou, Tsin-gay. Laborde et Bodinier, 1637 bis. Fl. 11 Sept. 1899.

Didissandra lineata, Craib, sp. nov.

Herba nana, perennis, rhizomate brevi crasso. Folia rosulata, ut videtur viva patula vel plus minusve erecto-patula, lanceolata vel ovato-lanceolata, apice obtusa vel rotundato-obtusa, interdum emarginata, basi cuneata, ad 18 mm. longa et 8 mm. lata, coriacea, supra glabra, mox pallescentia, subtus ad costam nervosque laterales pilis longis plus minusve cinnamomeis subsparse instructa, mox glabra, nervis lateralibus utrinque 2-3 rectis intra marginem furcatis pagina superiore valde impressis inferiore prominentibus, margine crenata, arcte recurva, exteriora petiolo circa 1 cm. longo valido supra planiusculo vel concavo indumento nervorum instructo suffulta, interiora sessilia. Pedunculi communes circa 6-7 cm. alti, pauci- vel pluri-flori, erecti vel inferne arcuato-adscententes, subglabri, cum pedicellis gracilibus 1-2 cm. longis sub anthesin fusci, demum fructu (anni prioris?) straminei. Calycis segmenta oblonga vel angustius oblonga, apice obtusa, ad 2 mm. longa et 0.75 mm. lata, fusca, glabra, 5-nervia, nervis infra apicem

confluentibus. Corollae tubus 6-6.5 mm. longus, intra pilis longiusculis in lineas duas subdensas e loborum basibus vix ad staminum insertionem currentes dispositis antice instructus, infra staminum insertionem et postice glaber; labium posticum 2 mm. longum, basi 3.75 mm. latum, lobis apice rotundatis 1.5 mm. longis, anticum 2.5 mm. longum, lobis oblongis vel late oblongis usque ad 1.75 mm. longis et latis apice rotundatis. Filamenta glabra, circa 2.5 mm. supra corollae tubi basem inserta, antica 4 mm. longa, lateralia 2 mm. longa; staminodium 0.75 mm. longum, circa 1.25 mm. supra corollae tubi basem affixum; antherae apice truncatae, basi emarginatae. Discus brevis, integer. Ovarium calyci subaequialtum, glabrum, stylo ad 3.75 mm. longo, stigmate emarginato. Capsula ad 12 mm. longa.

Mountains of the Chungtien plateau. Lat. 27° 55' N. Plant of 3-4 inches. Flowers deep blue. On dry limestone rocks and cliffs, 10,000 ft. Forrest, 10,790.

***Didissandra lutea*, Craib, sp. nov.**

Herba nana, rhizomate brevi crasso. Foliorum rosula 6-12 cm. diametro; folia oblongo-obovata, obovata vel subrhomboidea, rarius elliptica, apice rotundata, basi in petiolum cuneatim angustata, usque ad 4 cm. longa et 3 cm. lata, coriacea, pagina superiore viridia, medio inferne pilis albis vel pallide cinnamomeis barbata, aliter glabra vel pilis paucis hic illic sparse instructa, inferiore ad costam nervosque cinnamomeo-pannosolanata, inter nervos albido- vel cinnamomeo-albido-lanata, nervis lateralibus utrinque 3-4 bene intra marginem furcatis, supra primo bullata, dein nervis parum demum valde impressis, subtus nervis valde prominentibus, margine, parte triente inferiore integra excepta, crenata, petiolo rarius ad 3 cm. longo cinnamomeo-lanato suffulta. Pedunculi communes multiflori, inferne adscendentes, usque ad 10 cm. longi, mox plus minusve glabrescentes sed inferne apiceque pilis longiusculis diu persistentibus ornati; pedicelli usque ad 15 mm. longi. Calycis segmenta oblongo-ovata, apice rotundata obtusave, ad 2.5 mm. longa et 1.25 mm. lata, 5-9-nervia. Corolla intus pilis longiusculis crassis unicellularibus pro parte maxima in lineas duas e loborum basibus vix ad staminum insertionem currentes dispositis pilis paucis inter et ultra lineas et perpauis infra staminum insertionem additis antice ornata, postice glabra; tubus 9 mm. longus; labium posticum 2.5 mm. longum, basi 6 mm. latum, lobis duobus 1.25 mm. longis, anticum e lobis tribus inter se subaequalibus circa 3 mm. longis et 2.75 mm. latis constitutum. Filamenta glabra, antica 5.5 mm. longa, 2 mm. supra corollae tubi basem inserta, lateralia 4 mm. longa, 1 mm.

supra corollae tubi basem inserta; staminodium 0.75 mm. longum, circa 0.75 mm. supra corollae basem insertum. Ovarium calyce paulo altius, glabrum, stylo stigmate emarginato incluso 2.5 mm. longo. Capsula vix matura ad 11 mm., stylo persistente excluso, longa.

Bei-ma Shan, Mekong-Yangtze divide. Lat. 28° 30' N. Plant of 2-5 inches; flowers pale yellow. On cliffs and boulders in open situations, 11,000-12,000 ft. Fl. Aug. 1914. Forrest, 13,197.

***Didissandra mengtzeana*, Craib, sp. nov.**

Rhizoma breve, radices numerosas fibrosas emittens. Folia omnia basalia, rosulatum disposita, plus minusve flabelliformia, apice rotundata, basi cuneata, usque ad 2.5 cm. longa et 2 cm. lata, coriacea, supra longius sericea, pilis diu persistentibus, subtus densius lanata, nervis lateralibus utrinque 2-3 supra impressis subtus prominentibus, margine crenata, petiolo ad 1.5 cm. vel rarius usque ad 2 cm. longo indumento ei foliorum simili tecto suffulta. Pedunculus communis ad 8.5 cm. altus, primo lanatus, mox plus minusve glabrescens, inflorescentiam pauci- vel pluri-floram congestam vel sublaxam gerens; pedicelli ad 1 cm. longi. Calyx extra primo lanatus, cito plus minusve glabrescens, in segmenta 5 inter se subaequalia oblonga vel oblongo-lanceolata apice obtusa circa 2 mm. longa vix 1 mm. lata trinervia vel inconspicue 5-nervia nervis infra apicem concurrentibus partitus. Corollae tubus 5 mm. longus, intra antice pilis bilineatim dispositis copiose instructus, postice glaber; labium posticum 1.5 mm. longum, ultra medium bilobatum, anticum fere 3 mm. longum, trilobatum, lobis oblongis apice rotundatis. Discus annularis. Ovarium calycem subaequans, stylo ovario fere duplo longiore, stigmate bilobulato. Capsula ad 1.5 cm. longa, valvis rectis.

Yunnan. Mengtze, on rocks, 4700 ft., blue flowers. Henry, 9190, et on rocks, also on earthy banks, 4600-5000 ft., purple-blue flowers. Henry, 9190.

***Didissandra patens*, Craib, sp. nov.**

Herba nana; rhizoma valde crassum. Folia compacte rosulata, patula, exteriora ovato-lanceolata vel oblongo-lanceolata, interiora ovata vel late ovata, summo apice obtusa, basi in petiolum cuneatim attenuata, usque ad 8 cm. longa et 3.7 cm. lata, coriacea, supra viridia, glabra, subtus tantum ad costam nervosque primo breviter cinnamomeo-pannoso-lanata, indumento demum plus minusve albicante vel delapso, aliter glabra, nervis lateralibus utrinque 5-6 cum costa lata supra subcon-

spicuis vel leviter impressis subtus prominentibus rectis bene intra marginem dichotome furcatis, ramis 1-3-furcatis, ramulis omnibus subtus prominentibus, nervis transversis omnino obscuris, margine anguste crenulata, apicem versus praecipue recurva, exteriora petiolo crasso usque ad 5.5 cm. longo indumento nervorum suffulta, interiora sessilia. Pedunculi communes plures, 10-11 cm. alti, inferne arcuato-adscentes, inflorescentiam corymbiformem laxam multifloram ad 10 cm. diametro gerens, primo plus minusve cinnamomeo-lanati, cito glabrescentes; pedicelli 8-17 mm. longi, cito glabri. Calycis segmenta oblonga vel oblongo-elliptica, apice obtusa, interdum retusiuscula, inter se subaequalia, ad 2.5 mm. longa et 1.5 mm. lata, intra glabra, extra pauci-pilosa, 5-nervia, nervis sub apicem confluentibus, margine superne saepe papillosa. Corolla intus pilis longiusculis unicellularibus pro parte maxima in lineas duas e loborum bases ad filamentorum insertiones vix currentes dispositis, paucis hic et illic inter et ultra lineas et infra staminum insertionem additis antice ornata, postice glabra; tubus 6.5-7 mm. longus; labium posticum vix 2 mm. longum, basi 4.75 mm. latum, lobis duobus 0.75 mm. longis apice rotundatis, anticum 4 mm. longum, 3-lobatum, lobis obovatis vel oblongo-obovatis 2.5 mm. longis 2.75 mm. latis. Filamenta glabra, antica 4 mm. longa, 2.5 mm. supra corollae tubi basem inserta, lateralia 2 mm. longa, 2.25 mm. supra corollae tubi basem inserta, antheris apice truncatis basi emarginulatis; staminodium 1.5 mm. longum, glabrum, 1.5 mm. supra corollae tubi basem insertum. Discus annularis. Ovarium calyce brevius, glabrum, stylo vix 4 mm. longo, stigmate emarginato. Capsula ad 16 mm. longa, basi calyce persistente arcte cincta.

Mountains in N.E. of Yangtze bend. Lat. 27° 45' N. Plant of 6 inches. Flowers very pale blue, almost white. Faces of cliffs and boulders, 10,000-11,000 ft. Forrest, 10,698.

***Didissandra sericea*, Craib, sp. nov.**

Herba nana, rhizomate brevi crasso. Folia in rosulam densam 6-16 cm. diametro disposita, oblongo- vel rhombeo- vel lanceolato-ovata, apice rotundata, basi in petiolum cuneatim angustata, usque ad 5.5 cm. longa et 4 cm. lata, coriacea vel subtenuiter coriacea, supra pilis albis longis dense sericea, demum plus minusve glabrescentia sed nequaquam omnino glabra, subtus ad costam nervosque laterales dense cinnamomeo-lanata, aliter subsericea, nervis lateralibus utrinque 3-4 intra marginem furcatis ramulis iterum furcatis supra saepissime impressis subtus valde prominentibus, margine parte triente inferiore cuneata integra excepta crenato-dentata, interiora sessilia, exteriora petiolo usque ad 4 cm. longo cinnamomeo-

lanato suffulta. Pedunculus communis usque ad 15 cm. altus, primo dense albo- vel cinnamomeo-lanatus, mox plus minusve glaber, inflorescentiam multifloram subcongestam gerens; pedicelli usque ad 13 mm. longi. Calycis segmenta plus minusve oblonga, apice rotundata, ad 3 mm. longa et 1.75 mm. lata, 7-nervia. Corolla intus pilis crassis unicellularibus pro parte maxima in lineas duas e loborum basibus vix ad staminum insertionem currentes dispositis paucis inter et ultra lineas et perpaucis infra staminum insertionem additis antice ornata; tubus 8 mm. longus; labium posticum basi 6.4 mm. latum, 3 mm. longum, lobis duobus 1.75 mm. longis apice retusis, anticum trilobatum, lobis apice rotundatis 3-3.5 mm. longis 4 mm. latis. Filamenta antica 5.5 mm. longa, 2.75 mm. supra corollae basem inserta, lateralia 2.5 mm. longa, 2.75 mm. supra corollae basem inserta; staminodium 0.5 mm. longum, 0.75 mm. supra corollae basem insertum. Ovarium calycem vix aequans, stylo stigmate bilobo incluso 5 mm. longo. Capsula ad 2.3 cm. longa, fusca, valvis rectis.

Eastern flank of Lichiang Range. Lat. 27° 30' N. Plant of 2-6 inches. Flowers blue. On rocks and faces of cliffs, 10,000-12,000 ft. Forrest, 6039.

Eastern flank of Lichiang Range. Lat. 27° 12' N. Plant of 3-6 inches. Flowers rich blue. Dry open situations on rocks and faces of cliffs, 9000-11,000 ft. Forrest, 2509.

Cult. Hort. Bot. Reg. Edin. ubi floruit June 1919.

***Didissandra taliensis*, Craib, sp. nov.**

Herba nana, stolonifera, rhizomate brevi crasso superne petiolorum vestigiis tecto. Folia spatulata, oblongo-spatulata vel elliptico-spatulata, rarissime ovata, apice rotundata, basi in petiolum attenuata, usque ad 15 mm. longa et 7.5 mm. lata, firme chartacea vel coriaceo-chartacea, supra viridia, glabra, subtus ad costam nervosque rufo-pannoso-tomentosa, aliter glabra et punctulata, nervis lateralibus utrinque 3-4 rectis integris vel intra marginem furcatis, supra omnino obscuris rarissime parum impressis subconspicuis subtus prominentibus, margine superne saepissime crenata, rarius serrato-crenata, rarissime subintegra, parte cuneata basali integra, margine longe pauci-ciliata, mox glabra, plana vel leviter incurva, petiolo usque ad 1 cm. longo superne alato supra plano vel leviter late canaliculato supra glabro subtus indumento costae oblecto suffulta, interiora sessilia. Pedunculi communes plures, 4-5 cm. alti, recti vel inferne arcuato-adscendentes, 1-5-flori, primo plus minusve cinnamomeo-lanati, mox glabri, fusci, pedicellis usque ad 12 mm. longis indumento pedunculi tectis. Calycis segmenta oblonga apice rotundata vel rarius oblongo-lanceolata et apice obtusa, 2.5 mm.

longa, 1-1.25 mm. lata, 5-nervia, nervis infra apicem confluentibus, intra glabra, extra pilis paucis longis primo instructa, cito glabra. Corollae tubus 9-10 mm. longus, extra glaber, intra pilis longis unicellularibus pro parte maxima in lineas duas fere e loborum basibus ad staminum insertionem currentes cum lobis alternantes dispositis paucis infra staminum insertionem positiss antice instructus; labium posticum 2-vix 2.5 mm. longum, basi 3.5-4 mm. latum, lobis apice rotundatis vel emarginulatis 1.25 mm. longis, anticum 4-5 mm. longum, lobis obovatis vel obovato-rotundatis apice rotundatis ad 3.75 mm. longis et latis. Filamenta antica 6 mm. longa, lateralia 3 mm. longa, omnia circa 2.75 mm. supra corollae tubi basem inserta, glabra; staminodium 1.25 mm. longum, 1 mm. supra corollae tubi basem insertum. Discus vix 0.5 mm. altus. Ovarium calyci subaequialtum, glabrum, stylo glabro 4 mm. longo, stigmate emarginato. Capsula 15 mm. longa, calyce persistente.

Western flank of Tali Range. Lat. 25° 40' N. Plant of 1-2½ inches. Flowers deep purplish-blue. On rocks and cliffs in dry situations, 10,000 ft. G. Forrest, 11,536.

forma **robusta**, Craib. Planta multo robustior, foliis duplo majoribus, pedunculis saepe multifloris.

Eastern flank of Tali Range. Lat. 25° 40' N. Plant of 3-6 inches. Flowers blue, tipped white. On the faces of cliffs and on humus-covered boulders, 8000-10,000 ft. G. Forrest, 6910.

Isometrum, Craib, gen. nov.

Calyx in segmenta 5 inter se subaequalia partitus. Corolla cylindrica, basi postice parum gibbosa, superne haud ventricosa, limbo 5-lobato vix conspicue bilabiato patente lobis inter se subaequalibus rotundatis. Stamina 4, filamentis rectis sed apice subito inflexis corollae tubi basi affixis anticis lateralibus paulo longioribus, antheris per paria cohaerentibus rimis longitudinalibus haud confluentibus dehiscentibus. Discus conspicuus, pistilli basem cingens. Ovarium superum, in stylum ovario paulo brevius angustatum, stigmate bilobato, placentis intrusis bilamellatis facie interiore nudis. Capsulae linearis valvae rectae, haud tortae.—Herbae, rhizomate crasso, foliis omnibus basalibus rosulatim dispositis grosse serrato-crenatis vel lobulatis penninerviis pilis conspicue tectis. Pedunculi foliis moltoties longiores, pilis albis brevibus glanduloso-capitatis et paucis longioribus brunneis instructi, inflorescentiam cymosam umbelliformem bracteata gerentes.

Isometrum Farreri, Craib, sp. nov.

Rhizoma crassum. Folia omnia basalia, rosulatim disposita, obovato-oblongeolata vel anguste ovata, apice obtusa, basi in

petiolum cuneatim angustata vel rotundato-cuneata, ad 3.7 cm. longa et 2 cm. lata, coriacea, pagina superiore pilis albis brevibus plus minusve adpressis subaspera, inferiore pallidiora, pilis similibus sparsius tecta praetereaue ad costam nervosque laterales pilis longioribus brunneis additis, nervis lateralibus utrinque 3-5 intra marginem furcatis supra impressis subtus prominentibus, grosse serrato-crenata vel sublobulata, lobulis apice rotundatis ciliatis; petioli ad 1 cm. longi, pilis longis brunneis primo adpressis mox divaricatis hirsuti. Pedunculi ad 17 cm. alti, rubescentes, plus minusve glandulosi et pilis longioribus brunneis sparse instructi, 5-7-flori, floribus umbellatim dispositis, apice bracteis duabus lineari-lanceolatis circa 5 mm. longis instructi; pedicelli graciles, usque ad 4 cm. longi, indumento ei pedunculi simili tecti. Calyx extra fusco-ruber, in segmenta 5 lineari-lanceolata obtusiuscula circa 4 mm. longa et 1 mm. lata extra glanduloso-pubescentia partitus. Corollae extra praesertim superne sparse glanduloso-pubescentis tubus circa 8.5 mm. longus, postice basi parum gibbosus, limbus e lobis 5 patentibus vix distincte bilabiatis dispositis rotundatis margine irregulariter denticulatis ciliolatis circa 3-4 mm. longis et 4 mm. latis constitutus. Stamina inclusa, filamentis rectis apice subito inflexis, antheris per paria cohaerentibus demum liberis, longitudinaliter dehiscentibus, rimis haud confluentibus. Discus pistilli basem cingens. Ovarium subsessile, glabrum vel superne parce pubescens, calyce parum longius, stylo distincto ovario brevior, stigmate bilobulato.—*Oreocharis Henryana*, Farrer in Journ. Roy. Hort. Soc., xlii, 87 (1916), non Oliver.

S. Kansu. Very general at low elevations on rather cool rocks and very steep banks of cool clammy soil that grows a fine film of moss. Flowers a pretty shrimp pink with a bronzy tone. Farrer et Purdom, 262. Fl. Aug. 28.

Ornithoboea arachnoidea, Craib, comb. nov.

Boea arachnoidea, Diels in Notes Roy. Bot. Gard. Edin., v, p. 225 (1912).

Yunnan. Near Pei sha, Min Kwang valley. Lat. 25° 35' N. Alt. 6000-7000 ft. Plant of 6-12 inches, growing in clefts of cliffs. G. Forrest, 929! Fr. Oct. 1905. (Type.)

Hills N.E. of Tengyueh. Lat. 25° 15' N. Alt. 7000 ft. Moist shady situations on humus-covered boulders and ledges of cliffs. Plant of 6-12 inches. Flowers light blue. G. Forrest, 9272! Fl. et Fr. Oct. 1912.

Tengyueh, Howell, 67!

Ornithoboea Darrisii, Craib, comb. nov.

Boea Darrisii, Lévl. in Fedde Rep. Nov. Sp., xi, p. 494 (1913).

Kouy-Tcheou, Esquirol, 730! Yuin-li-tcheou, Cavalerie, 3975!

The type—in fruit only—shows that this species is nearest to *O. Henryi*, Craib. From that species it may be distinguished by the shorter, paler fruits.

Ornithoboea Forrestii, Craib, sp. nov., ab *O. arachnoidea*, Craib, partibus omnibus multo maioribus distinguenda.

Caulis erectus, ad 30 cm. altus, dense cinnamomeo- vel pallide cinnamomeo-arachnoideus. Folia opposita, ovata vel oblongo-lanceolata, apice subacuta, basi inaequilateralia, saepissime cordata, ad 18 cm. longa et 9 cm. lata, membranacea, supra viridia, pilis flaccidis transverse septatis saepe capitatis conspersa, subtus pallidiora, cinnamomeo-arachnoidea, indumento demum plus minusve deciduo, nervis lateralibus utrinque ad 13 saltem superioribus intra marginem anastomosantibus pagina utraque conspicuis vel leviter prominulis, nervulis rete laxum conspicuum vel saepius subconspicuum efficientibus, margine crenulata vel serrulato-crenulata; petioli usque ad 15 cm. longi, dense cinnamomeo-arachnoidei. Pedunculi solitarii, axillares, circa 3–6 cm. longi, dense cinnamomeo-arachnoidei, apice bracteis duabus linearibus circa 12 mm. longis arachnoideis instructi, inflorescentiam multifloram umbelliformem gerentes, pedunculis partialibus circa 15 mm. longis, pedicellis terminalibus circa 20 mm. longis. Calyx pallidus, in segmenta 5 inter se subaequalia oblonga vel oblongo-ovata apice nervo mediano excurrente breviter apiculata circa 7.5 mm. longa et 3–4 mm. lata pilis transverse septatis longe ciliatis praeterea sparse rubro-glandulosa partitus. Corollae tubus vix 4 mm. longus; labium posticum 3 mm. longum, 7 mm. latum, apice 4-undulato-lobulatum, paulo infra apicem linea transversa elevata dense pilosa instructum, anticum 9 mm. longum, trilobatum, lobis 2.5 mm. longis apice rotundatis vel truncato-rotundatis, intra e loborum basibus ad imam basem densissime pilosum. Stamina fertilia duo; filamenta circa 3 mm. longa, 1.5 mm. supra corollae tubi basem inserta, glabra. Ovarium circa 2 mm. altum, dense glanduloso-pubescent, stylo curvato ovario paulo longiore densius glanduloso-pubescente. Capsula vix matura, 1.7 cm. longa, valvis tortis, stylo persistente coronata, calyce reflexo accrescente persistente.

Yunnan. Shweli-Salwin divide. Lat. 25° 30' N. Alt. 9000 ft. On shady rocks by streams. Plant of 6–14 inches. Flowers bright blue. G. Forrest, 17,557. Fl. July 1918.

Streptocarpus burmanicus, Craib, species nova *S. orientali*, Craib, habitu persimilis sed calyce multo longiore inter alia facile distinguenda.

Herba erecta, caule terete cum petiolis inflorescentiaque pilis longiusculis transverse septatis glanduloso-capitatis sat dense instructo. Folia superiora opposita, elliptica, ovata obovatave, apice rotundata, basi subaequaliter cuneata vel latere altero acuminata, altero rotundata truncatave, circa 7 cm. longa et 5 cm. lata, chartacea, supra densius breviter flaccido-pilosa, subtus pallidiora, ad costam nervosque laterales dense pilosa, aliter sparse pilosula, nervis lateralibus utrinque circa 4 supra subconspicuis vel conspicuis subtus subprominentibus, margine crassius crenato-serrata, ciliata, petiolo ad 4 cm. longo suffulta. Inflorescentia ei *S. orientalis* similis. Calyx sub anthesin sicco ad 1 cm. longus, dorso pilosus, ad basem usque 5-partitus, segmentis linearibus acutis subconspicue nervatis. Corolla primo subdense pilosa, cito glabrescens, sicco ad 3.5 cm. longa. Capsula ad 5 cm. longa, straminea vel fusco-straminea, valvis tortis.

Upper Burma. Meiktila district. Taunggyigon Reserve, 2200 ft. Mg. Tha Myaing, 262. Fl. et Fr. Oct. 1909.

Dasydesmus, Craib, gen. nov., ab *Oreocharite* corolla tubulosa, antherarum connectivo dorso piloso, disco conspicuo 5-partito distinguenda.

Calyx conspicuus, in segmenta 5 lineari-lanceolata fere ad basem partitus. Corolla sicco aurantiaca, tubulosa, basi leviter gibbosa; limbus pro corollae longitudine breviusculus, subdistincte bilabiatus; labium posticum bilobatum antico trilobato subaequilongum, lobis anticis posticis paulo maioribus. Stamina fertilia 4, filamentis elongatis prope corollae tubi basem affixis; antherae inclusae vel subinclusae, inter se omnino liberae, lineares, loculis parallelis longitudinaliter dehiscentibus haud confluentibus connectivo dorso piloso; stamen posticum ad staminodium elongatum redactum. Discus conspicuus, fere ad basem in segmenta 5 oblonga acuminata apicem versus irregulariter pauci-dentata partitus. Ovarium superum, lineare, subsessile, stylo brevi crassiusculo, stigmate bilobulato.—Herba perennis, rhizomate crasso radices fibrosas numerosas emittente, partibus fere omnibus disco ovarioque exclusis pilosa. Folia omnia basalia, distincte petiolata, penninervia, crassius denticulata. Pedunculi communes gemini vel plures, foliis subaequilongi vel iis distincte longiores, inflorescentiam multifloram cymosam umbelliformem subcongestam gerentes; bractee elongatae, angustae; corolla sicco aurantiaca. Species unica chinensis.

Dasydesmus Bodinieri, Craib, comb. nov.

Oreocharis Bodinieri, Lév. in Bull. Geogr. Bot., No. 304-5,
p. 40 (1915).

Rochers—pied du mont Io-chan, 3100 m.; fl. jaune d'ocre,
E. E. Maire, 441/1914 et sine num.