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ENUMERATION
 OF
 ALL THE PLANTS KNOWN
 FROM
 CHINA PROPER, FORMOSA, HAINAN, THE COREA,
 THE LUCHU ARCHIPELAGO,
 AND
 THE ISLAND OF HONGKONG;
 TOGETHER WITH THEIR
 DISTRIBUTION AND SYNONYMY.

(Continued from VOL. XXIII.)

72. STYLIDIEÆ.

1. *Stylidium uliginosum*, Swartz in *Mag. Nat. Freunde*, 1807, p. 52, t. 2. f. 4; *DC. Prodr.* vii. p. 336; *Benth. Fl. Hongk.* p. 195; *Hook. f. Fl. Brit. Ind.* iii. p. 420.

Stylidium sinicum, Hance in *Walp. Ann.* ii. p. 1030.

KWANGTUNG: Pakhoi (*Playfair*!); HONGKONG (*Wright*! *Wilford*! *Champion*!). *Mus. Brit.*; *Herb. Kew.*

Ceylon and North-east Australia; and the closely allied species or variety, *S. Kunthii*, inhabits Eastern India and Malaya.

73. GOODENOVIEÆ.

1. *Calogyne chinensis*, *Benth. in Journ. Linn. Soc.* v. p. 78; *Hance in Journ. Bot.* 1871, p. 202.

FOKIEH: Amoy (*Hance*, 1422!). *Mus. Brit.*; *Herb. Kew.*

1. *Scævola Kœnigii*, Vahl, *Symb.* iii. p. 36; *Benth. Fl. Austral.* iv. p. 86; *Hook. f. Fl. Brit. Ind.* iii. p. 421; *Engler, Bot. Jahrb.* vi. p. 68; *Bot. Mag.* t. 2732.

Scævola Lobelia, *Benth. Fl. Hongk.* p. 198, non Linn.

Scævola latevaga, *Hance in Walp. Ann.* ii. p. 1054.

HONGKONG (*Wright! Champion! Wilford!*); PRATAS ISLAND (*Wilford!*); FORMOSA: TAKOW (*Playfair!*); LUCHU ARCHIPELAGO (*Wright!*). *Mus. Brit.*; *Herb. Kew.*

2. *Scævola hainanensis*, *Hance in Journ. Bot.* 1878, p. 229.

HAINAN (*Bullock, hb. Hance!*). *Mus. Brit.*

We have not verified the genus of this by dissecting the flowers; but assuming it to be correctly referred here, it is a very distinct and interesting addition to the genus, especially in its geographical range, apart from the two widely-spread species.

74. CAMPANULACEÆ: LOBELIÆÆ.

1. *Pratia begoniaefolia*, *Lindl. Bot. Reg.* t. 1373; *Clarke in Hook. f. Fl. Brit. Ind.* iii. p. 422.

Piddingtonia Nummularia, *DC. Prodr.* vii. p. 341; *Benth. Fl. Hongk.* p. 196.

Lobelia begoniaefolia, *Wall. in As. Res.* xiii. p. 377.

FORMOSA: north-east (*Wilford!*), Tamsui (*Oldham*, 210!), Kelung (*Ford!*); HUPEH: Nanto (*A. Henry!*); SZECHUEN: Mount Omei (*Faber!*); KWANGTUNG: Lofaushan (*Ford!*); HONGKONG (*Champion!*). *Mus. Brit.*; *Herb. Kew.*

Eastern India and Malaya.

1. *Lobelia affinis*, *Wall. in DC. Prodr.* vii. p. 360; *Benth. Fl. Hongk.* p. 197, in nota sub *L. trigona*; *Clarke in Hook. f. Fl. Brit. Ind.* iii. p. 424; *Hance in Journ. Linn. Soc.* xiii. p. 109.

Lobelia trigona, *Benth. Fl. Hongk.* 196, partim, vix Roxb.

KWANGTUNG: Dane's Island, Whampoia (*Hance*, 1094!); HONGKONG (*Champion! Wilford!*). *Mus. Brit.*; *Herb. Kew.*

Widely spread in India southward to Ceylon and in Malaya.

2. *Lobelia chinensis*, *Lour. Fl. Cochinch.* p. 514; *DC. Prodr.* vii. p. 360; *Clarke in Hook. f. Fl. Brit. Ind.* iii. p. 423, in nota sub *L. trigona*; *Hance in Journ. Linn. Soc.* xiii. p. 110.

KWANGTUNG: in humid localities near Canton (*Hance*, 634!)

Pakhoi (*Playfair*!); HONGKONG (*Champion*!). Mus. Brit.; Herb. Kew.

Mr. Bentham regarded this and *L. affinis* as varieties of *L. trigona*, Roxb.; but Dr. Hance, who had ample opportunities of seeing them growing, retains them as distinct species; and Mr. Clarke follows him. He also regarded *L. trialata*, Ham., as the same species.

3. *Lobelia pyramidalis*, Wall. in *Asiat. Res.* xiii. p. 376; DC. *Prodr.* vii. p. 381; Clarke in *Hook. f. Fl. Brit. Ind.* iii. p. 426; *Bot. Mag.* t. 2387.

Rapuntium pyramidale, Presl, et R. Wallichianum, Presl, *Prodr. Lobel.* pp. 23, 24.

Lobelia Davidii, Franchet, *Pl. David.* p. 191.

KIANGSI: Kiukiang (*Shearer*!); FOKIEN: Amoy interior (*Swinhoe*!); HUPEH: Ichang, Nanto and immediate neighbourhood (*A. Henry*!). Herb. Kew.

Mountains of Northern and Eastern India and Birma.

We have seen no authenticated specimen of Franchet's *L. Davidii*, concerning which he says: "Anne tantum *L. pyramidalis* varietas insignis?"; but the copious specimens from the same region in the Kew Herbarium leave no doubt that his suggestion is correct.

4. *Lobelia radicans*, Thunb. in *Trans. Linn. Soc.* ii. p. 330; Clarke in *Hook. f. Fl. Brit. Ind.* iii. p. 425.

Lobelia campanuloides, Thunb. loc. cit. p. 331; *Bot. Reg.* t. 733.

Rapuntium cæspitosum, Presl, R. campanuloides, Presl, et R. radicans, Presl, *Prodr. Lobel.* pp. 13, 14.

Isolobus campanuloides, A. DC. *Prodr.* vii. p. 353; Franch. et Savat. *Enum. Pl. Jap.* i. p. 274.

Isolobus radicans, A. DC. *Prodr.* vii. p. 353; Franchet, *Pl. David.* p. 192.

Isolobus Roxburghianus, A. DC. *Prodr.* vii. p. 353.

Pratia radicans, G. Don, et P. Thunbergii, G. Don, *Gen. Syst.* iii. p. 700.

Isolobus Kerii, A. DC. *Prodr.* vii. p. 353.

CHINA: without locality (*Potts*!); FORMOSA: north-east (*Wilford*, 529!); HUPEH: Ichang (*A. Henry*!); SZECHUEN: Mount Omei and near Chungking (*Eber*!); KWANGTUNG (*Hance*, 10774!); HONGKONG (*Ford*!). Mus. Brit.; Herb. Kew.

Eastern India, Java, and Japan.

Franchet retains Thunberg's two species, though he admits that they are exceedingly near. We have failed to distinguish two, to say nothing of the third one based by De Candolle on the figure in the 'Botanical Register.'

5. *Lobelia sessilifolia*, Lamb. in *Trans. Linn. Soc.* x. p. 260, t. 6; *DC. Prodr.* vii. p. 380; *Franch. et Savat. Enum. Pl. Jap.* i. p. 275; *Maxim. Prim. Fl. Amur.* p. 183; *Ledeb. Fl. Ross.* ii. p. 869.

COREA: Chemulpo (*Carles*!); COREAN ARCHIPELAGO: Green Island (*Oldham*, 492!). Herb. Kew.

Dahuria to Kamtschatka and Japan.

74. CAMPANULACEÆ: CAMPANULÆ.

1. *Wahlenbergia gracilis*, A. DC. *Monogr. Camp.* p. 142; *Prodr.* vii. p. 433; *Benth. Fl. Austral.* iv. p. 137; *Clarke in Hook. f. Fl. Brit. Ind.* iii. p. 429; *Franchet, Pl. David.* p. 192.

Wahlenbergia agrestis, A. DC. *Monogr. Camp.* p. 145; *Prodr.* vii. p. 434; *Benth. Fl. Hongk.* p. 197; *Miquel in Journ. de Bot. Néerl.* i. p. 110.

Wahlenbergia marginata, A. DC. *Monogr. Camp.* p. 143; *Prodr.* vii. p. 433; *Maxim. in Bull. Soc. Nat. Mosc.* 1879, p. 29; *Franch. et Savat. Enum. Pl. Jap.* i. p. 277.

Wahlenbergia dehiscens, A. DC., W. Sieberi, A. DC., W. lavandulæfolia, A. DC., et W. quadrifolia, A. DC., ex *Clarke in Hook. f. Fl. Brit. Ind.* iii. p. 429.

CHINA: without locality (*Fortune*, 70!); KIANGSU: Shanghai (*Faber*! *Carles*!); FOKIEN: Amoy (*Perry*!); FORMOSA: without locality (*Swinkhoe*!), Tamsui (*Oldham*, 211!); HUPKH: Ichang (*A. Henry*!); SZECHUEN: Mount Omei at 8000 feet (*Faber*!); KWANGTUNG: Pakhoi (*Playfair*! *Johnston*!); HONGKONG (*Hinds*! *Wright*! *Champion*!); LUCHU ARCHIPELAGO (*Wright*!). Mus. Brit.; Herb. Kew.

Common throughout India, Eastern Asia, and Australia; and also found in New Zealand and South Africa.

Var. ? *misera*, *Hemsl.*; cæspitosa, pedunculis sæpissime unifloris.

KWANGTUNG: Lantao Island (*Ford*!). Herb. Kew.

At first sight this looks very different from *W. gracilis*, of which, however, it may be a starved condition.

2. *Wahlenbergia homallanthinum*, *A. DC. Prodr.* vii. p. 425;
Ledeb. Fl. Ross. ii. p. 871.

Platycodon homallanthinum, *A. DC. Monogr. Camp.* p. 126.

NORTH CHINA (*Staunton* in herb. Banks ex *DeCandolle*).
Mus. Brit.

Siberia and Kamtschatka.

There is no authenticated specimen of this plant in the London herbaria, though Mr. Britten found what we supposed might be the specimen alluded to by *DeCandolle*.

1. *Platycodon grandiflorus*, *A. DC. Monogr. Camp.* p. 125
Prodr. vii. p. 422; *Walp. Ann.* ii. p. 1040; *Debeaux, Fl. Tchef.*
p. 92; *Franchet, Pl. David.* p. 193; *Hance in Journ. Bot.* 1874,
p. 261; *Franchet in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. p. 231
(var. α . *Candolleanus* et β . *chinensis*); *Ledeb. Fl. Ross.* ii. p. 870;
Sweet, Brit. Fl. Gard. ser. 2, t. 208.

Platycodon chinensis, *Lindl. et Paxt. Fl. Gard.* ii. p. 121, t. 61.

Platycodon autumnalis, *Decne. in Rev. Hort.* 1848, p. 361, cum ic. color.,
et in *Lem. Jard. Fleur.* t. 250.

Platycodon sinensis, *Lem. Jard. Fleur.* iii. sub tab. 250.

Wahlenbergia grandiflora, *Schrad. in Cat. Hort. Goett.* 1814, ex
A. DC.; *Benth. Fl. Hongk.* p. 197.

Campanula grandiflora, *Jacq. Hort. Vindob.* iii. p. 4, t. 2.

Campanula gentianoides, *Lam. Encycl.* i. p. 781.

CHIHLI and COREA to HUPEH, KWANGTUNG, and HONGKONG:
all collectors! Mus. Brit.; Herb. Kew.

Dahuria to Mandshuria and Japan.

1. *Codonopsis convolvulacea*, *Kurz in Journ. Bot.* 1873,
p. 195.

YUNNAN: Hotha (*Anderson ex Kurz*).

2. *Codonopsis lanceolata*, *Benth. et Hook. f. Gen. Pl.* ii. p. 557;
Trautv. in Acta Horti Petrop. vi. p. 46, excl. var. *ussuriensis*;
Hance in Journ. Bot. 1885, p. 325.

Campanumoea lanceolata, *Sieb. et Zucc. Fl. Jip.* i. p. 174, t. 91.

Glossocomia lanceolata, *Regel in Bull. Phys.-Math. Acad. Pétersb.* xv.
p. 223; *Maxim. in Mém. Biol.* xii. p. 487.

Glossocomia hortensis, *Rupr. in Bull. Phys.-Math. Acad. Pétersb.* xv.
p. 209.

CHIHLI: Peking (*Bretschneider*!); KIANGSI: Kiukiang
(*Shearer*!); HUPEH: Ichang and immediate neighbourhood

(*A. Henry*, 2342!); KWANGTUNG: Lofaushan (*Fabcr*!). Mus. Brit.; Herb. Kew.

Southern Mandshuria and Japan.

3. *Codonopsis ussuriensis*, *Hemsl.*

Glossocomia ussuriensis, *Rupr. et Maxim. in Bull. Phys.-Math. Acad. Pétersb.* xv. p. 209; *Maxim. Prim. Fl. Amur.* p. 184, et in *Mél. Biol.* xii. p. 487.

Glossocomia lanceolata, *Regel, Fl. Ussur.* n. 316, non *Maxim.*

Codonopsis lanceolata, var. *ussuriensis*, *Trautv. in Acta Horti Petrop.* vi. p. 47.

NORTH CHINA (ex *Maximowicz*).

Mandshuria and Japan.

4. *Codonopsis viridiflora*, *Maxim. in Mél. Biol.* xi. p. 258.

KANSUN: high alpine region (*Przewalski ex Maximowicz*).

1. *Cyananthus Delavayi*, *Franchet in Morot's Journ. de Bot.* i. 1887, p. 280.

Cyananthus barbatus, *Franchet in Bull. Soc. Bot. France*, xxxii. p. 9, non *Edgew.*

YUNNAN: mountains of Heechanmen above Lankong, at 3000 metres (*Delavay ex Franchet*). Herb. Kew.

2. *Cyananthus Hookeri*, *Clarke in Hook. f. Fl. Brit. Ind.* iii. p. 435; *Franchet in Morot's Journ. de Bot.* i. 1887, p. 281 (varieties *levicaulis* et *hispidus*).

YUNNAN: alpine pastures of Heechanmen near Hokin, at 2500 to 3500 metres (*Delavay*!). Herb. Kew.

India: Nepal.

3. *Cyananthus incanus*, *Hook. f. et Thoms. in Journ. Linn. Soc.* ii. p. 20; *Clarke in Hook. f. Fl. Brit. Ind.* iii. p. 434; *Franchet in Morot's Journ. de Bot.* i. 1887, p. 279 (varieties *leiocalyx*).

YUNNAN: alpine meadows of the Tsangchan mountain above Tali at 4000 metres (*Delavay*!). Herb. Kew.

India: Sikkim at 12,000 to 16,000 feet (var. *trichocalyx*, *Franchet*).

There is one piece of *Franchet's* var. *leiocalyx* among the Indian specimens in the Kew Herbarium.

4. *Cyananthus inflatus*, Hook. f. et Thoms. in Journ. Linn. Soc. ii. p. 21; Clarke in Hook. f. Fl. Brit. Ind. iii. p. 435; Franchet in Morot's Journ. de Bot. i. 1887, p. 281 (varietates tenuis et rufus).

YUNNAN: in various localities at 2500 to 3200 metres (Delavay, 146!). Herb. Kew.

India: Sikkim, general at 11,000 to 16,000 feet.

5. *Cyananthus longiflorus*, Franchet in Morot's Journ. de Bot. i. 1887, p. 280.

YUNNAN: Heechanmen mountain above Lankong (Delavay, 96!). Herb. Kew.

Mr. Franchet has left out, in the place cited, the locality and number, which are taken from the label accompanying the specimen presented to the Kew Herbarium.

6. *Cyananthus macrocalyx*, Franchet in Morot's Journ. de Bot. i. 1887, p. 279.

YUNNAN: Koulapo mountain near Hokin and Heechanmen above Lankong, at 3500 metres (Delavay!). Herb. Kew.

The Kew specimen bears no number; but Franchet cites 96, the number under which we have *C. longiflorus*.

1. *Campanumœa axillaris*, Oliv. in Hook. Ic. Plant. xviii. t. 1775.

Codonopsis truncata, Wall. Cat. 1301; A. DC. Monogr. Camp. p. 122; Prodr. vii. p. 423.

Cyclocodon truncatus, Hook. f. et Thoms. in Journ. Linn. Soc. ii. p. 18.

Cyclocodon adnatus, Griff. Notule. iv. p. 278?

Campanumœa celebica, Clarke in Hook. f. Fl. Brit. Ind. pro parte.

FOKÏEN: Amoy interior (Swinhoe!); SZECHUEN: Mount Omei at 5000 feet (Faber!). Herb. Kew.

Birma.

Wallich's Birma specimens (Cat. 1801) are certainly the same as the Chinese plant; probably also specimens in the Kew Herbarium from Mergui, Griffith, Assam, Griffith, Pegu, Kurz, and Sikkim, Treutler. What name this species should bear under this genus must be left undecided at present, as the synonymy is so very much involved. Kurz (Journ. As. Soc. Beng. xvi. 2, p. 210) unites *Cyclocodon distans*, Griff. (Ic. Pl. Ind.

Or. t. 481), with *Cyclocodon truncatus*, Hook. f. & Thoms.; and Clarke, *loc. cit.*, recognizes only two: one with a free calyx (involucre of A. DeCandolle), and the other with the calyx more or less adnate to the ovary, as in the present one. The specimens excluded here referred to *Campanumœa celebica* by Clarke have the leaves glaucous beneath and a loose terminal inflorescence.

2. *Campanumœa javanica*, *Biome, Bijdr.* p. 727; *DC. Prodr.* vii. p. 423; *Clarke in Hook. f. Fl. Brit. Ind.* iii. p. 435; *Flore des Serres*, t. 1264.

Codonopsis javanica, *Hock. f. Illustr. Himal. Pl.* t. 16.

Codonopsis cordata, *Hook. Bot. Mag.* t. 5372.

Campanumœa japonica, *Maxim. in Mém. Biol.* vi. p. 268.

HUPEH: Ichang, Nanto and neighbourhood (*A. Henry*!); SZECHUEN: Mount Omei at 4000 feet (*Faber*?). Herb. Kew.

Mountains of Eastern Birma, and Java; and also found in Japan.

The Indian specimens differ as much from each other as they do from the Chinese, and we can only regard them as varieties of one species.

3. *Campanumœa pilosula*, *Franchet, Pl. David.* pp. 192 et 193, ubi sphalmate *C. villosula*.

CHIHLI: mountains near Peking (*David ex Franchet*).

Mongolia and perhaps South Mandshuria.

Specimens in the Kew Herbarium collected by Mr. H. E. M. James in Southern Mandshuria are probably this species.

1. *Sphenoclea zeylanica*, *Gærtn. Fruct.* i. p. 113, t. 24. f. 5; *Clarke in Hook. f. Fl. Brit. Ind.* iii. p. 438.

Sphenoclea Pongatium, *A. DC. Prodr.* vii. p. 548; *Wight, Illustr. Ind. Bot.* t. 138.

Pongatium indicum, *Lam. Illustr.* ii. t. 444.

Rapinia herbacea, *Lour. Fl. Cochinch.* p. 127.

FORMOSA: Tamsui (*Oldham*, 445!), Takow (*Playfair*!); KWANGTUNG: Lantau Island (*Ford*!). Mus. Brit.; Herb. Kew. Tropical Asia, Africa, and America.

1. *Campanula canescens*, *Wall.* 1289; *A. DC. Prodr.* viii. p. 473; *Boiss. Fl. Or.* iii. p. 934; *Clarke in Hook. f. Fl. Brit. Ind.* iii. p. 439; *Franchet, Pl. David.* p. 193.

HUPËH: Nanto and mountains to the northward (*A. Henry*!); SHËNSI: Hanchongfou in the southern part of the province (*David ex Franchet*). Herb. Kew.

Common from Afghanistan through Northern India to Pegu, and in Ceylon.

2. *Campanula circæoides*, *Fr. Schmidt, Reisen in Amurl.* p. 154, t. 3. ff. 14-19; *Franch. et Savat. Enum. Pl. Jap.* i. p. 278; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 195,

HUPËH: Ichang and immediate neighbourhood (*A. Henry*!). Herb. Kew.

Mandshuria and Japan.

3. *Campanula colorata*, *Wall. Cat.* 1827, et in *Roxb. Fl. Ind.*, ed. *Carey et Wallich*, ii. p. 101; *A. DC. Prodr.* vii. p. 473; *Clarke in Hook. f. Fl. Brit. Ind.* iii. p. 440.

SZECHUEN: near Chungking (*Faber*!); YUNNAN (*Bourne*!). Herb. Kew.

Afghanistan through Northern India to the Khasia hills.

The Chinese specimens are imperfect, and therefore it is a little doubtful whether they are specifically the same as the Indian. Hance's *C. veronicifolia* is almost certainly the same.

4. *Campanula fulgens*, *Wall. Cat.* 1823, et in *Roxb. Fl. Ind.* ed. *Carey et Wall.* ii. p. 99; *A. DC. Prodr.* vii. p. 477; *Clarke in Hook. f. Fl. Brit. Ind.* iii. p. 442; *Hance in Journ. Bot.* 1885, p. 325; *Wight, Illustr. Ind. Bot.* t. 186, et *Id. Pl. Ind. Or.* t. 1179.

KWANGTUNG: North river (*B. C. Henry*, hb. *Hance*!). Mus. Brit.

Mountains of Northern and Eastern India, of the Deccan peninsula, and of Ceylon.

5. *Campanula glomerata*, *Linn. Sp. Pl.* ed. 1, p. 166; *DC. Prodr.* vii. p. 467; *Maxim. Prim. Fl. Amur.* p. 185.

SUNGKING: Peiling and other localities (*Webster*!); CORREA: Chemulpo (*Carles*!). Herb. Kew.

Western Europe to Persia, and through Siberia to Mandshuria.

6. *Campanula punctata*, *Lam. Encycl.* i. p. 586; *DC. Prodr.* vii. p. 465; *Ledeb. Fl. Ross.* ii. p. 878; *Baker et S. Moore in Journ.*

Linn. Soc. xvii. p. 384; *Franchet, Fl. David.* p. 194; *Franch. et Savat. Enum. Pl. Jap.* i. p. 277; *Bot. Mag.* t. 1723.

Campanula nobilis, *Lindl. in Journ. Hort. Soc. Lond.* i. p. 232; *Bot. Reg.* 1846, t. 65; *Flore des Serres*, tt. 247 et 563; *Rev. Hort.* 2^e série, v. (1846), p. 283.

CHIHLI: Jehol (*David*, 1858, ex *Franchet*); SHINGKING: hills north of Moukden (*Webster*!), Chienshan (*Ross*!), between Moukden and Tungcheshien (*James*!); FOKIEN: Amoy, cult. (*Fortune*, 105!); SHENSI OF KANSUH: Tsunglin range (*Piasezki* ex *Maximowicz* in litt.); COREA: Chemulpo (*Carles*!), west coast (*Perry*!). *Mus. Brit.*; *Herb. Kew.*

Dahuria to Mandshuria and Japan.

Mr. Fortune introduced this plant into Europe from Chinese gardens; and it does not appear that he ever met with it in a wild state. It was cultivated in 1815 by Lambert, who raised it from Siberian seeds.

7. *Campanula veronicifolia*, *Hance in Journ. Bot.* 1871, p. 133.

KWANGTUNG: North river (*Sampson*, lb. *Hance*!); SHENSI (*Piasezki*, ex *Maximowicz* in litt.). *Mus. Brit.*

Hance says, "very closely allied to *C. colorata*, Wall.," and there is little doubt that it is actually the same.

1. *Phyteuma japonicum*, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 192; *Franch. et Savat. Enum. Pl. Jap.* i. p. 277; *Herder in Pl. Radd.* iv. 1. p. 23.

COREA: Soul mountains (*Carles*!). *Herb. Kew.*
Mandshuria and Japan.

This is very near the Caucasian *P. campanuloides*; and is one of those species connecting this genus with *Campanula*, and constituting *G. Don's* section *Podanthum*, which *Boissier* has raised to generic rank.

1. *Adenophora capillaris**, *Hemsl.*, n. sp.

Herba elegantissima, perennis(?), erecta, circiter 3-pedalis,

* In addition to the new Chinese species here described, there is a very distinct one in the Kew Herbarium, collected between Kirin and Tsitsihar, Mandshuria, by Mr. H. E. M. James.

ADENOPHORA STENOPHYLLA, *Hemsl.*, n. sp.

Suffrutex vel herba lignosa pedalis vel forsan ultra, caulibus gracilibus puberulis supra ramulis lateralibus brevibus floriferis, foliis confertis linearibus

undique glabra vel cito glabrescens, caulibus teretibus, ramulis gracilibus. *Folia* radicalia desunt, caulina membranacea, lanceolata, in petiolum brevem attenuata, usque ad 6 poll. longa, longe acuminata, acutissima, inæqualiter serrata, venis primariis lateralibus paucis inter se anastomosantibus. *Flores* albi (*Henry*), circiter 9 lineas longi, laxè paniculati, pedicellis capillaribus; calycis lobi capillares, corolla dimidio breviores; corolla angusta, medio leviter inflata, cre leviter constricto, breviter 5-dentata; stamina inclusa, filamentis infra medium dilatatis, marginibus dense albo-ciliatis arcte applicatis; discus cylindricus, glaber, longissimus; stylus puberulus, dimorphus, nunc filiformis, longe exsertus, nunc apice clavatus inclusus. *Fructus* trilocularis, lævis, seminibus brunneis oblongis concavo-convexis.

HUPKH: Patung district (*A. Henry*, 954, 4799!). Herb. Kew.

A very distinct and beautiful species, remarkable for the exceeding slenderness of the pedicels, the narrow, somewhat inflated corolla, and the very long tubular disk.

2. *Adenophora divaricata*, *Franch. et Savat. Enum. Pl. Jap.* ii. p. 423; *Franch. in Mém. Soc. Sc. Nat. Oherbourg*, xxiv. p. 232.

SHANTUNG (*Fauvel ex Franchet*!).

Japan.

3. *Adenophora polymorpha*, *Ledeb. ex Herder in Pl. Radd.* iv. i. p. 24 (varietates numerosæ).

Adenophora coronopifolia, *Fisch.*, *A. denticulata*, *Fisch.*, *A. latifolia*, *Fisch.*, *A. Lamarkii*, *Fisch.*, *A. marsupiiiflora*, *Fisch.*, et *A. Gmelinii*, *Fisch. in Mém. Soc. Nat. Mosc.* vi. pp. 165-169; *Ledeb. Fl. Alt.* i. p. 246, et *Fl. Ross.* ii. pp. 893-895; *Franchet, Pl. David.* p. 194; *Trautv. Enum. Pl. Song. Schrenck*, p. 88.

CHIHLI and SHINGKING to HUPKH, common and in all collections. Mus. Brit.; Herb. Kew.

Siberia, Mandshuria, and Japan.

Ledebour, Trautvetter, Herder, and Franchet have each attempted to dispose of the numerous forms of *Adenophora*.

pollicaribus subobtusis hispidulis, floribus cæruleis 4-5 lineas longis breviter graciliterque pedicellatis, calycis glabri lobis brevibus subulatis, corolla late campanulata, filamentis barbatis, disco glabro, stylo vix exserto.

The somewhat crowded linear hispid leaves and small flowers distinguish this from all the other species. The narrow-leaved *A. Gmelinii*, *Fisch.*, has glabrous leaves and flowers three times as large.

Ledebour (Fl. Alt. i. p. 246) suggests that all the above forms, together with *A. verticillata*, Fisch., and *A. communis*, Fisch., should be regarded as one species, to which he would give the name of *A. polymorpha*. Trautvetter, *loc. sup. cit.*, follows, except that he holds *A. verticillata* to be a distinct species, and Herder retains the name *polymorpha*, attributing it to Ledebour, for the species as thus restricted. Franchet and Savatier endeavour to separate some of them again (Enum. Pl. Jap. ii. pp. 421-424), but we are unable to follow them; yet the present arrangement is merely a record of the names.

4. *Adenophora pubescens*, Hemsl., n. sp.

Herba perennis (?), albido-pubescens, 3-4-pedalis, caulibus crassiusculis subangulatis curvatis. *Folia* caulina breviter petiolata, tenuia, lanceolata, usque ad 7 poll. longa, longe acuminata, acuta, grosse inæqualiterque serrata, supra leviter rugulosa, glabrescentia, subtus albo-pubescentia. *Flores* albi (Henry), in paniculas amplas laxas terminales dispositi, brevissime pedicellati; calycis pubescentis lobi ovato-lanceolati, subacuti; corolla bene evoluta non visa.

HUPEH: Nanto and mountains to the northward (*A. Henry*, 2178!). Herb. Kew.

Although the flowers of Dr. Henry's specimens are not fully developed, the plant is so distinct as a species as to be easily recognized. Dr. Henry's number 1, from Ichang, with blue flowers, is probably this species. The flowers are about 9 lines long, and the corolla rather narrow-campanulate.

5. *Adenophora remotidens*, Hemsl., n. sp.

Herba, ut videtur, erecta, gracilis (caulis pars superiora florifera tantum adest), rufo-puberula. *Folia* subsessilia, crassiuscula, lanceolato-oblonga, 1-2 poll. longa, subobtusata, crenato-serrata, utrinque puberula, subtus pallidiora. *Flores* albi?, semipollicares, anguste paniculati, pedicellis recurvis filiformibus; calycis dentes breves, subulati, distantes; corolla anguste campanulata, lobis brevibus æquilatere triangulatis; stamina vix exserta; filamenta infra medium late dilatata, barbata; discus glaber, elongatus; stylus longe exsertus. *Fructus* non visus.

COREA: Chemulpo (*Carles*!). Herb. Kew.

A distinct species in the substance and indumentum of the foliage and small flowers with short distant calyx-teeth.

6. *Adenophora remotiflora*, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 193.

Campanula remotiflora, *Sieb. et Zucc. Fl. Jap. Fam. Nat.* n. 610.

Adenophora trachelioides, *Maxim. Prim. Fl. Amur.* p. 186; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 424; *Hance in Journ. Bot.* 1879, p. 12; *Franchet in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. p. 232, et *Pl. David.* p. 195; *Debeaux, Fl. Tchef.* p. 66 (*varietates cordatifolia et angustifolia*).

Adenophora Isabellæ, *Hemsl. in Journ. Bot.* 1876, p. 207.

CHIHLI: near Peking (*Bretschneider*!), Jehol (*David*, 1971!); SHINGKING: Peiling (*Webster*!), Changpeishan (*James*!); SHANTUNG: Chefoo (*Mrs. Forbes*!). *Mus. Brit.*; *Herb. Kew.*

Mandshuria and Japan.

7. *Adenophora rupincola*, *Hemsl.*, n. sp.

Herba perennis, glabrescens, caulibus gracilibus debilibus 2-4-pedalibus striatis vel subangulatis. *Folia* radicalia cordato-ovata, caulina petiolata, tenuia, primum præcipue subtus parce puberula, anguste lanceolata, usque ad 6 poll. longa, longe acuminata, acuminatissima, serrulata, venis albidis subtus conspicuis. *Flores* candidi (*Henry*), circiter 9 lineas longi, secus ramulos laterales elongatos graciles subaphyllos laxissime racemosi, pedicellis filiformibus; calycis lobi ovato-lanceolati, corolla vix dimidio breviores; corolla campanulata lobis latis brevibus; filamenta infra medium dilatata, leviter puberula; discus conicus, crassus; stylus exsertus, clavatus, puberulus. *Fructus* non visus.

HUPEH: Ichang and immediate neighbourhood (*A. Henry*, 4360!), Nanto and mountains to the northward (*A. Henry*, 4476!). *Herb. Kew.*

Characterized by its peculiar habit; the flowers being loosely borne on long, slender, weak lateral branches. It grows, according to Dr. Henry, out of the clefts of cliffs.

8. *Adenophora sinensis*, *A. DC. Monogr. Camp.* p. 354, t. 6; *DC. Prodr.* vii. p. 492.

CHINA: without locality (*Staunton*!); SHANTUNG (*Maingay*!); KIANGSI: Kiukiang (*Shearer*!). *Mus. Brit.*; *Herb. Kew.*

There are specimens in the Kew Herbarium from the province of Hupeh that may belong to this species.

9. *Adenophora stricta*, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 192; *S. Moore in Journ. Bot.* 1875, p. 231.

KIANGSI: Kiukiang (*Shearer*!). *Herb. Kew.*

Japan.

Perhaps not specifically different from *A. sinensis*, *A. DC.*

10. *Adenophora verticillata*, Fisch. in *Mém. Soc. Imp. Nat. Mosc.* vi. p. 167; *A. DC. Monogr. Camp.* p. 356; *DC. Prodr.* vii. p. 492; *Trautv. Enum. Pl. Song. Schrenck*, p. 89; *Herder, Pl. Radd.* iv. 1, p. 28; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 422; *Hance in Journ. Bot.* 1885, p. 325; *Sweet, Brit. Fl. Gard.* ser. 2, t. 160.

Campanula verticillata, Pall. *Itin.* iv. p. 376, t. 34.

SUINGKING: Peiling (*Webster*!); CHEKIANG: Ningpo (*Faber*!); Kiangsi: Kiukiang (*Shearer*!); KWANGTUNG: North river (*B. C. Henry*, hb. *Hance*!); COREA: Chemulpo (*Carles*!); LUCHU ARCHIPELAGO (*Wright*!). Mus. Brit.; Herb. Kew.

Dahuria to Mandshuria and Japan.

It is difficult to determine whether certain specimens should be referred to this species or to *A. polymorpha*, var. *latifolia*; the distinction residing in the calyx-lobes, which in *A. verticillata* should be linear; but it fails in some cases. Possibly the forms having whorled leaves referred to *A. polymorpha* are hybrids.

75. VACCINIACEÆ.

1. *Vaccinium bracteatum*, Thunb. *Fl. Jap.* p. 156; *DC. Prodr.* vii. p. 573; *Maxim. in Mém. Biol.* viii. p. 608; *Franch. et Savat. Enum. Pl. Jap.* i. p. 282; *Franchet, Pl. David.* p. 195.

Vaccinium chinense, Champ. in *Hook. Kew Journ. Bot.* iv. p. 297; *Walp. Ann.* v. p. 440; *Benth. Fl. Hongk.* p. 199.

Vaccinium Donianum, Miq. in *Ann. Mus. Bot. Lugd.-Bat.* ii. p. 161.

Vaccinium Wrightii, A. Gray in *Mem. Amer. Acad. u. s.* vi. p. 398, *Franch. et Savat. Enum. Pl. Jap.* i. p. 282.

Vaccinium Oldhami, Miq. in *Ann. Mus. Bot. Lugd.-Bat.* ii. p. 161, quoad plantam Oldhamianam in herb. Kew sub num. 501.

Vaccinium malaccense, Wight, *Ic. Pl. Ind. Or.* t. 1186, ex Maxim.

Andromeda chinensis, Lodd. *Bot. Cab.* t. 1648.

CHINA: without locality (*Millett*! *Fortune*, 47!); CHEKIANG: Chusan (*Jacob*!), Ningpo mountains (*Faber*! *Cooper*!); Kiangsi: Kiukiang (*Shearer*!); FOKIEN: Amoy (*Fortune*, 92!); HUPEH: Nanto and mountains to the northward (*A. Henry*!); KWANGTUNG: Lofaushan (*Ford*!); HONGKONG (*Wright*! *Wilford*! *Champion*! *Seemann*! and others); LUCHU ARCHIPELAGO (*Wright*!). Mus. Brit.; Herb. Kew.

Japan and Eastern India.

Renthall and Maximowicz suggest that the Indian *Vaccinium neilgherrense*, Wight, *V. rotundifolium*, Wight, *V. Leschenaultii*,

Wight, *V. Donianum*, Wight, and *V. Griffithianum*, Wight, may all be forms of this species, the area of which would thus be considerably extended; but more recently Clarke (Hook. f. Fl. Brit. Ind. iii. p. 454) retains most of them as species, with the remark that *V. Griffithianum* among *Vaccinia* is the most like *V. bracteatum*. Maximowicz refers *V. Oldhami*, Miq., to *V. ciliatum*, Thunb., a Japanese species hitherto not found in China proper, but the Kew specimens bearing Oldham's number cited by Miquel belong to *V. bracteatum*.

2. *Vaccinium ciliatum*, Thunb. Fl. Jap. p. 156; Maxim. in Mém. Biol. viii. p. 607; Franch. et Savat. Enum. Pl. Jap. i. p. 281.

COREAN ARCHIPELAGO: Hooper Island (*Oldham*, 502!). Herb. Kew.

Throughout Japan.

3. *Vaccinium Henryi*, Hemsl., n. sp.; species ex affinitate *V. ciliati* eoque simillima, differt foliis opacis minus conspicue venosis eciliatis, floribus axillaribus potius quam racemosis.

Frutex 4-10-pedalis (*Henry*), dense ramosus, ramulis annotinis foliiferis brevibus pubescentibus. *Folia* brevissime petiolata, papyracea, decidua, ovato-lanceolata, 1-2½ poll. longa, subacuta, integra, præter costam venasque primarias plus minusve pubescentes glabra. *Flores* in axillis foliorum solitarii vel interdum quasiracemosi (id est foliis superioribus gradatim minoribus temperius deciduis) brevissime pedicellati, glabri, circiter lineas 2½ longi; calycis dentes lati, breves, subobtusius; corolla conica, lobis brevibus obtusis non recurvis; stamina 10, filamentis latis liberis parce puberulis, antheris 2-tubulosis glabris exaristatis. *Fructus* niger (*Henry*), parvus, calycis lobis obscure ciliolatis appressis coronatus.

HUPEH: Patung district (*A. Henry*, 2579, 4826, 4985!). Herb. Kew.

Dr. Henry describes the number 2579 as a tree twenty feet high, but this may have arisen through an error on the part of his Chinese collector.

4. *Vaccinium iteophyllum*, Hance in Ann. Sc. Nat. 4^{me} série, xviii. p. 223.

FOKIEN: without locality (*Grijs*, hb. Hance 6787!); HUPEH: Nanto, Patung and neighbourhood (*A. Henry*!). Mus. Brit.; Herb. Kew.