

CATALOGUE OF THE NAMES PUBLISHED BY HECTOR LÉVEILLÉ: XII

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ABSTRACT. The species described by Léveillé belonging to the families Oleaceae, Apocynaceae, Asclepiadaceae, Gentianaceae, Boraginaceae, Convolvulaceae and Solanaceae are evaluated. Other species described in, but not belonging to, these families are also included. There are no new names or combinations.

INTRODUCTION

This paper follows the same format as those previously published and listed below*.

The originator of the idea and presentation of this Catalogue was Mr P. S. Green, Kew, who was joint author of Part I in 1961, and it therefore gives me great pleasure that he is once again associated, in this part, through his collaboration in the family Oleaceae.

Within the Gentianaceae, both C. V. B. Marquand, of Kew, and later, Harry Smith of Uppsala, identified many of the specimens of *Gentiana* in the Edinburgh herbarium. Smith also worked on other genera but published very little in proportion to the many specimens he examined. Therefore, although he identified many of the specimens in the Léveillé herbarium, several Leveilleian species are only here mentioned in synonymy for the first time.

In accordance with the usual practice in this catalogue, details of type specimens cited by Rehder (*Journ. Arn. Arb.* 15, 1934; 16, 1935; 18, 1937) are not repeated here.

I am grateful to Dr T. Nakaike, Tokyo, for identifying several specimens of Korean *Fraxinus*, and to my colleague Mr D. McKean for his assistance with the Gentianaceae.

OLEACEAE (with P. S. GREEN)

1391. *Chionanthus retusa* Lindl. & Paxton; Rehder in *Journ. Arn. Arb.* 15: 304 (1934).

C. retusa Lindl. & Paxton var. *fauriei* Lévl. in Fedde, Rep. Sp. Nov. 11: 297 (1912).

C. retusa Lindl. & Paxton var. *mairei* Lévl. in Fedde, Rep. Sp. Nov. 13: 175 (1914) & Cat. Pl. Yunnan 179 (1916).

KOREA. Fusan, v 1906, *Faurie* 517 (holo. var. *fauriei*, E).

* Part I, *Notes R.B.G. Edinb.* 23:573-596 (1961); II, 24:73-78 (1962); III, 26:333-346 (1966); IV, 27:1-10 (1966); V, 27:265-292 (1967); VI, 30:239-294 (1970); VII, 31:397-435 (1972); VIII, 32: 93-116 (1972); IX, 34:327-402 (1976); X, 35:247-264 (1977); XI, 35: 265-279 (1977).

Rehder *l.c.* and Nakai (1918) both cited *Faurie* 517 under *C. retusa* but did not realise that var. *fauriei* had been validly described.

The type of var. *mairei* has not been found at Edinburgh and is not in the Lévillé herbarium although Rehder appears to have seen it.

1392. *Chionanthus retusa* Lindl. & Paxton var. *coreana* (Lévl.) Nakai in Bot. Mag. Tokyo 32:115 (1918) & Fl. Sylv. Kor. 10:17, t. 1, f. d (1921); Rehder in Journ. Arn. Arb. 15:304 (1934).

C. coreanus Lévl. in Fedde, Rep. Sp. Nov. 8:280 (1910); Nakai in Journ. Coll. Sci. Imp. Univ. Tokyo 31:509 (1911).

1393. *Fontanesia fortunei* Carr.; Rehder in Journ. Arn. Arb. 15:302 (1934). *F. argyi* Lévl. in Mem. Real Acad. Ci. Artes Barcelona ser. 3, 12:557 (1916).

Fraxinus fauriei Lévl. = *Meliosma pinnata* (Roxb.) Walp. subsp. *arnottiana* (Walp.) Beus. (Sabiaceae).

This species was referred to (*Notes R.B.G. Edinb.* 27:290, 1967) under *Meliosma oldhamii* Miq.

1394. *Fraxinus griffithii* C.B.Cl.; Rehder in Journ. Arn. Arb. 15:302 (1934); Nakaike in Bull. Nat. Sci. Mus. Tokyo 15:483 (1972).

Ligustrum vanioti Lévl., Cat. Pl. Yunnan 181 (1916); Mansfeld in Bot. Jahrb. 59, Beibl. 132:72 (1924).

1395. *Jasminum amplexicaule* [Buch.-Ham. ex] G. Don, Gen. Syst. 4:60 (1837).

J. esquirolii Lévl. in Fedde, Rep. Sp. Nov. 10:147 (1911) & Fl. Kouy-Tchéou 293 (1915); Kobuski in Journ. Arn. Arb. 13:173 (1932) & Rehder, *l.c.* 15:308 (1934) pro syn. sub *J. multiflorum* (Burm. f.) Andrews, syn. nov.

1396. *Jasminum beesianum* Forrest & Diels; Lévl., Fl. Kouy-Tchéou 293 (1915), in Fedde, Rep. Sp. Nov. 13:149 (1914) & Cat. Pl. Yunnan 179 (1916); Kobuski in Journ. Arn. Arb. 13:168 (1932); Rehder in Journ. Arn. Arb. 15:308 (1934); Chia in Acta Phytotax. Sin. 2:57 (1952).

J. valbrayi Lévl. in Fedde, Rep. Sp. Nov. 13:337 (1914).

1397. *Jasminum duclouxii* (Lévl.) Rehder in Journ. Arn. Arb. 15:307 (1934); Chia in Acta Phytotax. Sin. 2:43 (1952).

Melodinus duclouxii Lévl. in Fedde, Rep. Sp. Nov. 2:114 (1906).

Jasminum schneideri Lévl. in Le Monde des Pl. sér. 2, 18:31 (1916)—*nom. nov.* for *Melodinus duclouxii*.

J. duncolum W.W. Sm. in Notes R.B.G. Edinb. 12:207 (1920); Kobuski in Journ. Arn. Arb. 13:166 (1932).

1398. *Jasminum floridum* Bunge; Kobuski in Journ. Arn. Arb. 13:147 (1932); Rehder in Journ. Arn. Arb. 15:306 (1934); Chia in Acta Phytotax. Sin. 2:28 (1952); P. S. Green in Notes R.B.G. Edinb. 23:378 (1961).

J. argyi Lévl. in Mem. Real Acad. Ci. Artes Barcelona, ser. 3, 12:577 (1916).

1399. *Jasminum humile* L.; Kobuski in Journ. Arn. Arb. 13:150 (1932); Rehder in Journ. Arn. Arb. 15:306 (1934); P. S. Green in Notes R.B.G. Edinb. 23:362 (1961).

J. mairei Lévl. in Fedde, Rep. Sp. Nov. 13:337 (1914) & Cat. Pl. Yunnan 179 (1916).

J. mairei Lévl. var. *siderophyllum* Lévl., Cat. Pl. Yunnan 179 (1916).

J. humile L. var. *siderophyllum* (Lévl.) Kobuski in Journ. Arn. Arb. 20:406 (1939); Chia in Acta Phytotax. Sin. 2:27 (1952).

1400. *Jasminum lanceolarium* Roxb. var. *puberulum* Hemsl.; Kobuski in Journ. Arn. Arb. 13:158 (1932); Rehder in Journ. Arn. Arb. 15:306 (1934); Chia in Acta Phytotax. Sin. 2:34 (1952).

J. dunnianum Lévl. in Fedde, Rep. Sp. Nov. 13:151 (1914) & Fl. Kouy-Tchéou 293 (1915).

1401. *Jasminum nervosum* Lour. var. *villosum* (Lévl.) Chia in Acta Phytotax. Sin. 2:55 (1952).

J. laurifolium Roxb. var. *villosum* Lévl. in Fedde, Rep. Sp. Nov. 13:151 (1914) & Fl. Kouy-Tchéou 294 (1915); Kobuski in Journ. Arn. Arb. 13:171 (1932) sub *J. anastomosans* [Wall. ex] DC.; Rehder in Journ. Arn. Arb. 15:308 (1934) pro. syn. sub *J. amplexicaule* [Buch.-Ham. ex] G. Don.

1402. *Jasminum polyanthum* Franch.; Kobuski in Journ. Arn. Arb. 13:163 (1932); Rehder in Journ. Arn. Arb. 15:307 (1934); Chia in Acta Phytotax. Sin. 2:38 (1952).

J. blinii Lévl. in Fedde, Rep. Sp. Nov. 13:151 (1914), Fl. Kouy-Tchéou 293 (1915) & Cat. Pl. Yunnan 179 (1916).

J. delafieldii Lévl., Cat. Pl. Yunnan 179 (1916) & China Rev. Ann. 23 (1916).

1403. *Jasminum prainii* Lévl. in Fedde, Rep. Sp. Nov. 10:148 (1911), 13:150 (1914) & Fl. Kouy-Tchéou 294 (1915); Kobuski in Journ. Arn. Arb. 13:167 (1932); Rehder in Journ. Arn. Arb. 15:308 (1934) & 18:234 (1937); Chia in Acta Phytotax. Sin. 2:58 (1952); Lauener & Ferguson in Notes R.B.G. Edinb. 32:111 (1972).

Ophiorrhiza esquirolii Lévl. in Fedde, Rep. Sp. Nov. 13:177 (1914) & Fl. Kouy-Tchéou 370 (1915).

1404. *Jasminum seguinii* Lévl. in Fedde, Rep. Sp. Nov. 13:151 (1914) & Fl. Kouy-Tchéou 294 (1915); Kobuski in Journ. Arn. Arb. 13:165 (1932); Rehder in Journ. Arn. Arb. 15:307 (1934) & 18:233 (1937); Merrill & Metcalf in Lingnan Sci. Journ. 16:396 (1937); Hand.-Mazz., Symb. Sin. 7:1014 (1936); Chia in Acta Phytotax. Sin. 2:42 (1952).

1405. *Jasminum sinense* Hemsl.; Kobuski in Journ. Arn. Arb. 13:159 (1932); Rehder in Journ. Arn. Arb. 15:306 (1934); Chia in Acta Phytotax. Sin. 2:35 (1952); Lauener & Ferguson in Notes R.B.G. Edinb. 32:99, 100 (1972).

Lonicera rehderi Lévl. in Fedde, Rep. Sp. Nov. 10:145 (1911)—non Merrill (1905).

L. cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 11:31 (1912) & Fl. Kouy-Tchéou 63 (1914)—*nom. nov.* for *L. rehderi* Lévl.—non Merrill (1905).

Jasminum bodinieri Lévl. in Fedde, Rep. Sp. Nov. 13:151 (1914) & Fl. Kouy-Tchéou 293 (1915).

1406. *Ligustrum delavayanum* Hariot in Journ. de Bot. 14:172 (1900); Mansfeld in Bot. Jahrb. 59, Beibl. 132:54 (1924).

L. ionandrum Diels in Notes R.B.G. Edinb. 5:252 (1912).

L. delavayanum Hariot var. *ionandrum* (Diels) Lévl., Cat. Pl. Yunnan 181 (1916).

1407. *Ligustrum japonicum* Thunb.; Nakai in Bot. Mag. Tokyo 32:120 (1918), Fl. Sylv. Kor. 10:33, t. 10 (1921); Mansfeld in Bot. Jahrb. 59, Beibl. 132:51 (1924); Rehder in Journ. Arn. Arb. 15:305 (1934); Hara, Enum. Sperm. Jap. 1:118 (1948).

L. taquetii Lévl. in Fedde, Rep. Sp. Nov. 10:378 (1912).

1408. *Ligustrum lucidum* Ait.; Lévl., Fl. Kouy-Tchéou 295 (1915) & Cat. Pl. Yunnan 181 (1916); Nakai in Bot. Mag. Tokyo 32:120 (1918) & Fl. Sylv. Kor. 10:31, t. 9 (1921); Mansfeld in Bot. Jahrb. 59, Beibl. 132:49 (1924); Rehder in Journ. Arn. Arb. 13:304 (1934); Hara, Enum. Sperm. Jap. 1:119 (1948).

L. esquirolii Lévl. in Fedde, Rep. Sp. Nov. 10:147 (1911) & Fl. Kouy-Tchéou 295 (1915); Mansfeld in Bot. Jahrb. 59, Beibl. 132:72 (1924).

Esquirolia sinensis Lévl. in Fedde, Rep. Sp. Nov. 10:441 (1912).

Ligustrum lucidum Ait. var. *esquirolii* Lévl., Cat. Pl. Yunnan 181 (1916).

1409. *Ligustrum quihoui* Carr.; Rehder in Journ. Arn. Arb. 15:305 (1934).

L. argyi Lévl. in Mem. Real Acad. Ci. Artes Barcelona, ser. 3, 12:557 (1916).

1410. *Ligustrum sinense* Lour. var. *myrianthum* (Diels) Hoefk.; Rehder in Journ. Arn. Arb. 15:305 (1934).

L. bodinieri Lévl., Fl. Kouy-Tchéou 295 (1915); Mansfeld in Bot. Jahrb. 59, Beibl. 132:72 (1924).

Ligustrum thea Lévl. = *Wendlandia salicifolia* [Franch. ex] Costello (Rubiaceae).

1411. *Osmanthus delavayi* Franch.; Rehder in Journ. Arn. Arb. 15:303 (1934); P. S. Green in Notes R.B.G. Edinb. 22:532 (1958).

Ligustrum phillyrea Lévl. in Bull. Acad. Géog. Bot. 25:41 (1915) & Cat. Pl. Yunnan 181 (1916); Mansfeld in Bot. Jahrb. 59, Beibl. 132:72 (1924).

1412. *Syringa fauriei* Lévl. in Fedde, Rep. Sp. Nov. 8:285 (1910); Nakai in Journ. Coll. Sci. Imp. Univ. Tokyo 31:509 (1911), in Bot. Mag. Tokyo 32:129 (1918) *p.p.* & Fl. Sylv. Kor. 10:46 (1921); Rehder in Journ. Arn. Arb. 15:303 (1934).

Ligustrina fauriei (Lévl.) Nakai in Bull. Nat. Sci. Mus. Tokyo no. 31:92 (March 1952); V. Vassil. in Fl. URSS 18:517 (1952).

KOREA. In monte des diamants, 21 vi 1906, *Faurie* 714 (lecto. *S. fauriei*, E), 22 v 1906, *Faurie* 722 (syntype *S. fauriei*, E).

In his protologue, Léveillé cited two syntypes, *Faurie* 714 & 722. The description obviously relates to the fruits of *Faurie* 714 and this specimen is chosen as the lectotype.

Nakai wrongly examined and cited *Faurie* 715 & 929 as cotypes of *S. fauriei* in his 1918 paper but gave the correct *Faurie* number in 1921. *Faurie* 715 and 929 belong to *Syringa patula* (Palibin) Nakai (*S. velutina* Kom.).

Nakai transferred the species to *Ligustrina* (publ. date Mar. 1952, see above) and Vassiliev also published the same combination in the same year but it is not known in what month. It is Nakai's combination which is given in *Index Kewensis*.

1413. *Syringa mairei* (Lévl.) Rehder in Journ. Arn. Arb. 15:302 (1934).

Ligustrum mairei Lévl., Cat. Pl. Yunnan 181 (1916); Mansfeld in Bot. Jahrb. 59, Beibl. 132:72 (1924).

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MANSFELD R. (1924). Vorarbeiten zu einer Monographie der Gattung *Ligustrum*. *Bot. Jahrb.* 59, Beibl. 132:19-75.

NAKAI, T. (1918). Praecursores ad Floram Sylvaticam Koreanam X. (Oleaceae). *Bot. Mag. Tokyo* 32:113-133.

NAKAIKE, T. (1972). A Synoptical Study on the Genus *Fraxinus* from Japan, Korea & Formosa. *Bull. Nat. Sci. Mus. Tokyo* 15:475-512.

APOCYNACEAE

1414. *Aganosma navillei* (Lévl.) Tsiang in Sunyatsenia 4:40, f. 11 (1939), sphalm. "*navaillei*".

Trachelospermum navillei Lévl., Fl. Kouy-Tchéou 32 (1914); Woodson in Journ. Arn. Arb. 15:315 (1934) & Rehder, *l.c.* 18:237 (1937) pro syn. sub *Aganosma cymosa* (Roxb.) G. Don.

1415. *Aganosma schlechteriana* Lévl. in Fedde, Rep. Sp. Nov. 9:325 (1911); Lévl., Fl. Kouy-Tchéou 40 (1914) *p.p.* excl. *Esquirol* 3765; Woodson in Journ. Arn. Arb. 15:315 (1934) & Rehder, *l.c.* 18:237 (1937) pro syn. sub *Aganosma cymosa*; Hand.-Mazz., Symb. Sin. 7:991 (1936); Tsiang in Bull. Fan. Mem. Inst. Biol. (Bot.) 9:24 (1939) & in Sunyatsenia 4:31 (1939).

Whereas Woodson and Rehder considered *A. schlechterianum* and *T. navillei* to be synonymous with the Indian *A. cymosa*, Tsiang considered them to be three distinct species.

Esquirol 3765 belongs to *Melodinus ?fusiformis* Champ.

1416. *Alstonia mairei* Lévl., Cat. Pl. Yunnan 9 (1915); Woodson in Journ. Arn. Arb. 15:315 (1934); Tsiang in Sunyatsenia 3:138 (1936); Rehder in Journ. Arn. Arb. 18:235, 276 (1937).

Wikstroemia hemsleyana Lévl. in Bull. Acad. Géog. Bot. 25:41 (1915).

1417. *Alstonia yunnanensis* Diels; Woodson in Journ. Arn. Arb. 15:315 (1934); Tsiang in Sunyatsenia 3:138 (1936); Rehder in Journ. Arn. Arb. 18:235 (1937); Lauener in Notes R.B.G. Edinb. 27:268 (1967).

Pycnostelma esquirolii Lévl., Fl. Kouy-Tchéou 44 (1914).

Acronychia esquirolii Lévl., Fl. Kouy-Tchéou 374 (1915).

Alstonia esquirolii (Lévl.) Lévl., Cat. Pl. Yunnan 10 (1915) & China Rev. Ann. 17 (1916).

CHINA. Kweichow, sine loc., viii 1905, *Esquirol* 740 (holo. *Pycnostelma esquirolii* & *Alstonia esquirolii*, E).

Léveillé did not seem aware of the fact that he described the same specimen twice.

1418. *Alyxia oliviformis* Gaud. f. *myrtillifolia* (Gray ex Hillebr.) St-John in Phytologia 32:383 (1975).

Alyxia oliviformis Gaud. var. *myrtillifolia* [Gray ex] Hillebr., Fl. Haw. 299 (1888).

A. myrtillaefolia (Gray ex Hillebr.) Lévl. in Fedde, Rep. Sp. Nov. 10:155 (1911).

HAWAIIAN (SANDWICH) ISLANDS. Molokai, Kamolo, vi 1910, *Faurie* 455—n.v.

1419. *Alyxia schlechteri* Lévl. in Fedde, Rep. Sp. Nov. 9:453 (1911)—non Markgraf 1927; Lévl., Fl. Kouy-Tchéou 30 (1914) p.p. excl. *Cavalerie* 3463; Woodson in Journ. Arn. Arb. 15:316 (1934); Tsiang in Sunyatsenia 2:105 (1934) & 3:136 (1936); Rehder in Journ. Arn. Arb. 18:235 (1937).

Daphne bodinieri Lévl. in Fedde, Rep. Sp. Nov. 13:258 (1914)—non (1915).

Wikstroemia bodinieri (Lévl.) Lévl., Fl. Kouy-Tchéou 417 (1915).

Alyxia bodinieri (Lévl.) Woodson in Journ. Arn. Arb. 15:316 (1934).

Cavalerie 3463 is *Podocarpus neriifolius* D. Don.

1420. *Carissa carandas* L.; Tsiang in Sunyatsenia 3:122 (1936); Rehder in Journ. Arn. Arb. 18:235 (1937); Lauener & Ferguson in Notes R.B.G. Edinb. 32:105 (1972).

Arduina carandas (L.) K. Schum.; Woodson in Journ. Arn. Arb. 15:312 (1934).

Damnacanthus esquirolii Lévl. in Fedde, Rep. Sp. Nov. 10:435 (1912) & Cat. Pl. Yunnan 245 (1917); Koidzumi in Acta Phytotax. Geobot. 3:158 (1934) pro syn. sub *Damnacanthus lancifolius* (Makino) Koidzumi.

As indicated by Tsiang, the type of *D. esquirolii* comes from Kweichow, not Yunnan as stated by Woodson (*l.c.*).

1421. *Ecdysanthera rosea* Hook. & Arn.; Rehder in Journ. Arn. Arb. 18:235 (1937); Lauener & Ferguson in Notes R.B.G. Edinb. 32:103 (1972).

Antirrhoea esquirolii Lévl., Fl. Kouy-Tchéou 364 (1915).

Melodinus duclouxii Lévl. = *Jasminum duclouxii* (Lévl.) Rehder (Oleaceae).

1422. *Melodinus hemsleyanus* Diels; Woodson in Journ. Arn. Arb. 15:313 (1934) pro syn. sub *M. khasianus* Hook. f.; Tsiang in Sunyatsenia 3:130 (1936); Rehder in Journ. Arn. Arb. 18:234 (1937); Fang, Icon. Pl. Omeiens. t. 88 (1944).

Trachelospermum esquirolii Lévl., Fl. Kouy-Tchéou 32 (1914).

1423. *Melodinus seguinii* Lévl. in Fedde, Rep. Sp. Nov. 2:144 (1906) & Fl. Kouy-Tchéou 30 (1914); Woodson in Journ. Arn. Arb. 15:313 (1934); Tsiang in Sunyatsenia 3:131 (1936); Hand.-Mazz., Symb. Sin. 7:989 (1936); Rehder in Journ. Arn. Arb. 18:235 (1937).

M. flavus Lévl. in Fedde, Rep. Sp. Nov. 11:548 (1913).

M. esquirolii Lévl. in Fedde, Rep. Sp. Nov. 11:549 (1913).

M. edulis Lévl. in Fedde, Rep. Sp. Nov. 11:549 (1913) & Fl. Kouy-Tchéou 30 (1914).

The two separate collections of *M. flavus* comprise syntypes, not one holotype as indicated by Woodson. See *Addendum*, p. 151.

1424. *Sindechites henryi* Oliver; Tsiang in Sunyatsenia 3:151 (1936); Hand.-Mazz., Symb. Sin. 7:992 (1936); Rehder in Journ. Arn. Arb. 18:238 (1937); Fang, Icon. Pl. Omeiens. t. 87 (1944); Lauener & Ferguson in Notes R.B.G. Edinb. 32:103 (1972).

Parameria esquirolii Lévl. in Fedde, Rep. Sp. Nov. 9:325 (1911) & Fl. Kouy-Tchéou 31 (1914).

Antirrhoea? martini Lévl. in Fedde, Rep. Sp. Nov. 13:178 (1914) & Fl. Kouy-Tchéou 364 (1915).

Sindechites esquirolii (Lévl.) Woodson in Journ. Arn. Arb. 15:316 (1936).

1425. *Trachelospermum axillare* Hook. f.; Lévl., Fl. Kouy-Tchéou 31 (1914) p.p. excl. *Esquirol* 1568; Woodson in Journ. Arn. Arb. 15:310 (1934) & in Sunyatsenia 3:99 (1936); Tsiang in Sunyatsenia 3:145 (1936); Rehder in Journ. Arn. Arb. 18:237 (1937); Fang, Icon. Pl. Omeiens. t. 90 (1944); Lauener in Notes R.B.G. Edinb. 35:272 (1977).

Melodinus chaffanjonii Lévl. in Fedde, Rep. Sp. Nov. 2:114 (1906).

Maesa scandens Lévl. in Fedde, Rep. Sp. Nov. 10:375 (1912) & Fl. Kouy-Tchéou 286 (1915).

Periploca astacus Lévl., Fl. Kouy-Tchéou 43 (1914).

Woodson cited *Esquirol* 399 as the holotype of *Maesa scandens* but it is a syntype. The other syntype is *Esquirol* 396.

Esquirol 1568 belongs to *Trachelospermum dunnii*.

1426. *Trachelospermum bodinieri* (Lévl.) Woodson in Journ. Arn. Arb. 15:312 (1934) & in Sunyatsenia 3:77 (1936); Tsiang in Sunyatsenia 3:145 (1936); Rehder in Journ. Arn. Arb. 18:237 (1937); Hand.-Mazz., Symb. Sin. 7:990 (1936) excl. syn.; Tsiang in Bull. Fan. Mem. Inst. Biol. (Bot.) 9:25 (1939). *Melodinus bodinieri* Lévl. in Fedde, Rep. Sp. Nov. 2:113 (1906).

Woodson included *Trachelospermum cathayanum* C. K. Schneid. (1916) in synonymy under *T. bodinieri*, but Tsiang (*Acta Phytotax. Sin.* 11:390, 1973) includes "*T. bodinieri* sensu Woods." in synonymy under *T. cathayanum*. Elsewhere (p. 393) he compares a new species with *T. bodinieri*. It seems evident, therefore, that he considers *T. cathayanum* and *T. bodinieri* to be distinct species.

Trachelospermum cavaleriei Lévl. (1914) = *Cryptolepis buchananii* Roem. & Schult. (Asclepiadaceae).

1427. *Trachelospermum dunnii* (Lévl.) Lévl., Fl. Kouy-Tchéou 31 (1914); Woodson in Journ. Arn. Arb. 15:311 (1934) & in Sunyatsenia 3:98 (1936); Tsiang in Sunyatsenia 2:152, f. 19 (1934), 3:148 (1936); Rehder in Journ. Arn. Arb. 18:237 (1937).

Melodinus cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 2:113 (1906) *p.p.*

Melodium dunnii Lévl. in Fedde, Rep. Sp. Nov. 9:453 (1911).

Melodinus dunnii Lévl., Fl. Kouy-Tchéou 31 (1914) pro syn. sub *T. dunnii*.

Trachelospermum rubrinerve Lévl., Fl. Kouy-Tchéou 32 (1914) *p.p.*

Part of a syntype of *Melodinus cavaleriei* belongs to *T. dunniana* and part to *T. gracilipes* (q.v.). Woodson and Rehder give full explanations of additional synonymy and of the specimens involved.

1428. *Trachelospermum gracilipes* Hook. f.; Woodson in Journ. Arn. Arb. 15:311 (1934) & in Sunyatsenia 3:91 (1936); Tsiang in Sunyatsenia 3:144 (1936); Rehder in Journ. Arn. Arb. 18:236 (1937).

Melodinus cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 2:113 (1906) *p.p.*

Trachelospermum rubrinerve Lévl., Fl. Kouy-Tchéou 32 (1914) *p.p.*

1429. *Wrightia sikkimensis* Gamble in Kew Bull. 1908:447 (1908); Ngan in Ann. Miss. Bot. Gard. 52:146 (1965); Tsiang & Li in Acta Phytotax. Sin. 11:372 (1973).

W. schlechteri Lévl. in Fedde, Rep. Sp. Nov. 11:67 (1912) & Fl. Kouy-Tchéou 32 (1914); Woodson in Journ. Arn. Arb. 15:312 (1934); Rehder in Journ. Arn. Arb. 18:238 (1937); Tsiang in Sunyatsenia 4:53 (1939).

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ASCLEPIADACEAE

- 1430. *Ceropegia mairei*** (Lévl.) H. Huber in Mem. Soc. Brot. 12:43 (1957). *Aristolochia mairei* Lévl. in Bull. Acad. Géog. Bot. 22:228 (1912) & Cat. Pl. Yunnan 13 (1915).
Ceropegia balfouriana Schltr. in Notes R.B.G. Edinb. 8:18 (Mar. 1913); Rehder in Journ. Arn. Arb. 18:240 (1937); Tsiang in Sunyatsenia 4:89 (1939).
Aristolochia viridifolia Lévl. in Fedde, Rep. Sp. Nov. 12:99 (April 1913) & Cat. Pl. Yunnan 13 (1915).
A. viridiflora Lévl. var. *occlusa* Lévl. in Fedde, Rep. Sp. Nov. 12:190 (May 1913) & Cat. Pl. Yunnan 13 (1915).
A. blinii Lévl. in Fedde, Rep. Sp. Nov. 12:287 (July 1913) & Cat. Pl. Yunnan 11, f. 1 (1915).
- 1431. *Cryptolepis buchananii*** Roem. & Schult.; Tsiang in Sunyatsenia 3:160 (1936); Rehder in Journ. Arn. Arb. 18:239 (1937).
Trachelospermum cavaleriei Lévl., Fl. Kouy-Tchéou 31 (1914); Woodson in Journ. Arn. Arb. 15:316 (1934) & in Sunyatsenia 3:101 (1936).
- 1432. *Cynanchum alatum*** Wight & Arn. in Wight, Contr. Bot. Ind. 57 (1834); Tsiang in Sunyatsenia 4:110 (1939).
C. mairei [Schltr. ex] Lévl., Cat. Pl. Yunnan 13 (1915) *nom. nud.*
- No specimen was cited but Schlechter did annotate a Maire specimen from La-Kou as *C. mairei*.
- 1433. *Cynanchum auriculatum*** [Royle ex] Wight, Contr. Bot. Ind. 58 (1834); Tsiang & Li in Acta Phytotax. Sin. 12:87 (1974).
C. boudieri Lévl. & Van. in Bull. Soc. Bot. Fr. 51:cxliv (1904).
Tylophora cavaleriei Lévl., Fl. Kouy-Tchéou 44 (1914).
C. caudatum auct. non (Miq.) Max.; Hand.-Mazz., Symb. Sin. 7:996 (1936); Rehder in Journ. Arn. Arb. 18:239 (1937).
- 1434. *Cynanchum mooreanum*** Hemsl.; Rehder in Journ. Arn. Arb. 18:239 (1937); Tsiang & Li in Acta Phytotax. Sin. 12:99 (1974).
C. argyi [Schltr. ex] Lévl. in Mem. Real Acad. Ci. Artes Barcelona ser. 3, 12:544, *nom. nud.*
C. tylophoroideum [Schltr. ex] Lévl. *l.c.*, *nom. nud.*
Tylophora argyi [Schltr. ex] Lévl. *l.c.*, *nom. nud.*, *p.p.*

C. argyi was not cited by Rehder. The sheet determined as such by Schlechter is *d'Argy* 5 from Kiangsu.

Another supposed d'Argy sheet of *Tylophora argyi* was named *Tylophora* sp. by Schlechter. It has been identified by Chang as *T. floribunda* Miq. (g.v.).

Although cited as type specimens none of these specimens attached to *nomina nuda* can be types.

1435. *Cynanchum officinale* (Hemsl.) Tsiang & Zhang in Acta Phytotax. Sin. 12:90 (1974).

Pentatropis officinalis Hemsl. in Journ. Linn. Soc. (Bot.) 26:110 (1889).

Cynanchum bodinieri [Schltr. ex] Lév., Fl. Kouy-Tchéou 41 (1914) & Cat. Pl. Yunnan 13 (1915) *nom. nud.*

Cynanchum yunnanense Lév. (1915)—non Anth. (1927) = *Paederia yunnanensis* (Lév.) Rehder (Rubiaceae).

Note: In Notes R.B.G. Edinb. 32:113 (1972) I remarked that *C. yunnanense* Anth. might require a new name. I find that Handel-Mazzetti (*Symb. Sin.* 7:107, 1936) renamed it *C. anthonyanum* Hand.-Mazz.

1436. *Cynanchum verticillatum* Hemsl. in Journ. Linn. Soc. (Bot.) 26:109 (1889).

Cynanchum leveilleianum [Schltr. ex] Lév., Fl. Kouy-Tchéou 41 (1914) *nom. nud.*

CHINA. Kweichow, environs de Ganpin, bord des ruisseaux, fleurs jaunes, 11 vi 1898, item—Tsin-gay, route de Che teou tchay, dans l'eau près d'un pont, 27 vi 1899, *Martin in herb. Bodinier* 2389 (E); Pin-fa, fl. jaune-somb., 23 vi 1903, *Cavalerie* 1090 (E); sine loc., vi 1905, *Esquirol* 499 (E).

1437. *Dischidia esquirolii* (Lév.) Tsiang in Sunyatsenia 3:183 (1936) & l.c. 4:127 (1939); Rehder in Journ. Arn. Arb. 18:241 (1937).

Hoya esquirolii Lév. in Fedde, Rep. Sp. Nov. 11:298 (1912) & Fl. Kouy-Tchéou 42 (1914); Woodson in Journ. Arn. Arb. 15:318 (1934).

1438. *Heterostemma esquirolii* (Lév.) Tsiang in Sunyatsenia 3:189 (1936); Rehder in Journ. Arn. Arb. 18:242 (1937).

Pentasacme esquirolii Lév., Fl. Kouy-Tchéou 43 (1914).

Hoya cavaleriei Lév. = *Holboellia latifolia* Wall. (Berberidaceae/Lardizabalaceae).

1439. *Hoya lyi* Lév. in Bull. Soc. Bot. Fr. 54:369 (1907) & Fl. Kouy-Tchéou 42 (1914); Tsiang in Sunyatsenia 3:179 (1936); Rehder in Journ. Arn. Arb. 18:241 (1937).

H. carnosa auct. non R. Brown; Woodson in Journ. Arn. Arb. 15:318 (1934).

1440. *Marsdenia oreophila* W.W. Sm.; Tsiang in Sunyatsenia 3:205 (1936); Rehder in Journ. Arn. Arb. 18:242 (1937).

Gongronema yunnanense Lév., Cat. Pl. Yunnan 13 (1915).

Marsdenia yunnanensis (Lév.) Woodson in Journ. Arn. Arb. 15:317 (1934).

1441. *Marsdenia stenantha* Hand.-Mazz.; Tsiang in Sunyatsenia 3:202 (1936); Rehder in Journ. Arn. Arb. 18:241 (1937).

Stephanotis yunnanensis Lévl., Cat. Pl. Yunnan 14 (1915); Woodson in Journ. Arn. Arb. 15:317 (1934)—non *Marsdenia yunnanensis* (Lévl.) Woodson (1934).

1442. *Marsdenia tenacissima* (Roxb.) Wight & Arn.; Tsiang in Sunyatsenia 3:214 (1936); Rehder in Journ. Arn. Arb. 18:242 (1937).

Metaplexis cavaleriei Lévl., Fl. Kouy-Tchéou 42 (1914).

Marsdenia cavaleriei (Lévl.) Hand.-Mazz. ex Woodson in Journ. Arn. Arb. 15:318 (1934).

1443. *Metaplexis sinensis* (Hemsl.) H. H. Hu in Journ. Arn. Arb. 6:143 (1925); Tsiang in Sunyatsenia 3:162 (1936).

Holostemma sinense Hemsl. in Journ. Linn. Soc. (Bot.) 26:103 (1889).

Aphanostelma chinensis [Schltr. ex] Lévl., Fl. Kouy-Tchéou 40 (1914).

CHINA. Kweichow, environs de Gan-pin, grimpant aux buissons, bord des routes, fleurs blanches, 9 viii 1897, *Martin in herb. Bodinier* 1756.

Aphanostelma chinensis is validated by its reference ("Fleurs en grappes axillaires") in Léveillé's generic key to *Asclepiadaceae*, as *A. chinensis* was the only species of the genus in the Flora. See *Addendum*, p. 151.

Periploca astacus Lévl. = *Trachelospermum axillare* Hook. f. (Apocynaceae)

Pycnostelma esquirolii Lévl. = *Alstonia yunnanensis* Diels (Apocynaceae)

1444. *Secamone sinica* Hand.-Mazz., Symb. Sin. 7:997 (1936); Tsiang in Sunyatsenia 4:55 (1939).

S. esquirolii [Schltr. ex] Lévl., Fl. Kouy-Tchéou 44 (1914) *nom. nud. p.p.* CHINA. Kweichow, rochers de Lao-ting, liane à latex, 20 v 1904, *Esquirol* 51 (E); rochers de Tchée-iang, 14 vii 1905, *Esquirol* 723 (E).

Schlechter cited a third specimen, *Esquirol* 3719, which was identified by Tsiang as *Gongronema nepalense* (Wall.) Decne.

Esquirol 49, cited in *Flore du Kouy-Tchéou* by Schlechter under *Gymnema affine* Decne., belongs to *Secamone sinica*.

1445. *Tylophora dielsii* (Lévl.) H. H. Hu in Journ. Arn. Arb. 5:232 (1924); Tsiang in Sunyatsenia 3:230 (1936); Rehder in Journ. Arn. Arb. 18:241 (1937); Lauener in Notes R.B.G. Edinb. 27:277 (1967).

Hoyopsis dielsii Lévl. in Fedde, Rep. Sp. Nov. 13:262 (1914).

Tylophora hoyopsis Lévl., Fl. Kouy-Tchéou 44 (1914).

1446. *Tylophora floribunda* Miq.; Tsiang in Sunyatsenia 3:231 (1936); Rehder in Journ. Arn. Arb. 18:240 (1937).

T. argyi Schltr. in Mem. Real Acad. Ci. Artes Barcelona ser. 3, 12:544 *nom. nud. p.p.*

Tsiang cited the unnumbered d'Argy specimen as "Edinb. Loan No. 215", which refers to the pencilled sheet number of the loan. It is not a type.

See also note under *Cynanchum mooreanum*.

1447. *Tylophora kerrii* Craib in Kew Bull. 1911:417 (1911); Tsiang & P. T. Li in Acta Phytotax. Sin. 12:133 (1974).

T. leveilleana [Schltr. ex] Lévl., Fl. Kouy-Tchéou 44 (1914); Tsiang in Sunyatsenia 3:226 (1936); Rehder in Journ. Arn. Arb. 18:240 (1937)—*nom. nud.*

CHINA. Kweichow, Ouang mou, fleur blanche, vii 1904, *Esquirol* 131 (E).

Tsiang's short English description of *T. leveilleana* is not valid being after 1 January 1935.

1448. *Tylophora* sp.; Rehder in Journ. Arn. Arb. 18:241 (1937).

Dischidia yunnanensis Lévl., Cat. Pl. Yunnan 14 (1915).

CHINA. Yunnan, sous bois de Tcheou-kia-ouan, 2550 m, asclepias, sous arbrisseau grimpant toujours vert, fl. jaunes, ix 1911, *E. E. Maire* s.n. (holo. *D. yunnanensis*, E).

Tsiang annotated the type specimen "an *Tylophora*". I have been unable to match it with any Chinese material of Asclepiadaceae in the Edinburgh herbarium. Although Maire said the flowers were yellow the specimen is in fruit only. If it should prove to be a *Tylophora*, the name *T. yunnanensis* is already occupied. See *Addendum*, p. 151.

REFERENCES FOR ASCLEPIADACEAE

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LOGANIACEAE

The family Loganiaceae should appear here but as the genus *Buddleia* is at present under revision by Dr A. J. M. Leeuwenberg, Wageningen, this family will be included in a future part of the Catalogue.

GENTIANACEAE

1449. *Canscora lucidissima* (Lévl. & Van.) Hand.-Mazz., Symb. Sin. 7:234 (1931), 948 (1936).

Euphorbia lucidissima Lévl. & Van. in Bull. Herb. Boiss. sér. 2, 6:763 (1906).

Euphorbiopsis lucidissima (Lévl. & Van.) Lévl. in Fedde, Rep. Sp. Nov. 9: 446 (1911) & Fl. Kouy-Tchéou 163 (1914).

CHINA. Kweichow, sud de Tin-Fan, route des rochers, fl. blan. jau., x 1904, *Cavalerie* 1881 (holo. *E. lucidissima*, E).

1450. *Centaureum meyeri* (Bge.) Druce in Rep. Bot. Exch. Club Brit. Isl. 4: 613 (1917).

Erythraea meyeri Bge. in Ledeb. Fl. Alt. 1:220 (1829); Ling in Fl. Ill. N. Chine 2:13, t. 1 (1933).

E. chaneti Lévl. in Fedde, Rep. Sp. Nov. 8:280 (1910) & in Bull. Acad. Géog. Bot. 27:76 (1917).

CHINA. Hopei (Pé-Tche-Ly), Ting-Tcheou, fossés humides, vi 1908, *Chanet* 320 (holo. *E. chaneti*, E).

Léveillé mis-cited the number as *Chanet* 1320. In habit and flower colour, *E. chaneti* appears to be closer to *C. meyeri* than to *C. pulchellum*.

1451. *Gentiana blinii* Lévl. in Bull. Acad. Géog. Bot. 25:22 (1915) & Cat. Pl. Yunnan 113 (1916); Marquand in Kew Bull. 1937:165 (1937).

CHINA. Yunnan, plaine marécageuse de Lou-pou, 3000 m, gentiana aquatique, annuelle, fl. blanches ou bleu sombre, x 1912, *E. E. Maire* s.n. (holo, E).

On a label attached to the type specimen of *G. blinii* Marquand wrote "This seems to be a good species aff. *G. yunnanensis* Franch." and he places the two species next to each other in his paper "The Gentians of China".

In *Symbolae Sinicae* (7:978, 1936), Smith cited a Maire specimen from 'Lupu', probably the type of *G. blinii*, under *G. yunnanensis*. Later, however, he identified it and several other Maire collections as "*G. yunnanensis* Franch. var. *blinii* (Lévl.) H. Sm." but I have been unable to find any publication of this combination.

As it seems that both Marquand and Smith considered that *G. blinii* merits some distinction from *G. yunnanensis* I include it here at specific rank rather than publish what may not be a new combination.

1452. *Gentiana bodinieri* Lévl. in Bull. Acad. Géog. Bot. 25:22 (1915); Marquand in Kew Bull. 1937:172 (1937).

CHINA. Kweichow, rochers du pic Io-chan, 3200 m, gentiana annuelle, fl. bleues, x 1912, *E. E. Maire* s.n. (holo. E).

1453. *Gentiana microdonta* Franch. apud Hemsl. in Journ. Linn. Soc. (Bot.) 26:130 (1890); Marquand in Kew Bull. 1937:162 (1937).

G. phyllopoda Lévl. in Bull. Acad. Géog. Bot. 25:21 (1915) & Cat. Pl. Yunnan 114 (1916).

CHINA. Kweichow, sommet neigeux du Io-chan, 3400 m, gentiana vivace, vert pâle, fl. blanches, vii 1912, *E. E. Maire* s.n. (holo. *G. phyllopoda*, E).

1454. *Gentiana nipponica* Maxim. in Bull. Acad. Sci. St. Pétersb. 32:507 (1888); Hara in Enum. Sperm. Jap. 1:133 (1948); Toyokuni in Journ. Fac. Sci. Hokkaido Univ. ser. 5 (Bot.) 7:220 (1963); Ohwi, Fl. Jap. (Engl. ed.) 738 (1965).

G. makinoi Lévl. & Van. in Bull. Soc. Bot. Fr. 53:649 (1906)—non Kusnez. (1893).

JAPAN. In Hakkoda, prope nives, 1400 m, viii 1904, *Faurie* 5953 (syntype *G. makinoi*, E); supra Komagatake, 2300 m, ix 1905, *Faurie* 7100 (syntype *G. makinoi*, E).

1455. *Gentiana panthaica* Burkill in Journ. Proc. As. Soc. Beng. n.s. 2:313 (1906).

G. reynieri Lévl. in Bull. Acad. Géog. Bot. 25:22 (1915) & Cat. Pl. Yunnan 114 (1916); Marquand in Kew Bull. 1937:169 (1937).

CHINA. Yunnan, vallon de Lan-ngi-tsin, 3000 m, gentiana annuelle, fl. bleuâtres, v 1912, *E. E. Maire* s.n. (holo. *G. reynieri*, E).

1456. *Gentiana panthaica* Burkill var. *epichysantha* (Hand.-Mazz.) H. Sm. in Hand.-Mazz., Symb. Sin. 7:966 (1936).

G. epichysantha Hand.-Mazz. in Sitzgsanz. Akad. Wiss. Wien Math.-nat. Kl. 57:173 (1920).

G. mairei Lévl. in Bull. Acad. Géog. Bot. 25:22 (1915) & Cat. Pl. Yunnan 114 (1916); Marquand in Kew Bull. 1937:175 (1937).

CHINA. Kweichow, sommet du Io-chan, 3400 m, gentiana annuelle, fl. bleues, vi 1912, *E. E. Maire* s.n. (holo. *G. mairei*, E).

1457. *Gentiana rigescens* Franch. apud Hemsl. in Journ. Linn. Soc. (Bot.) 26:134 (1890); Marquand in Kew Bull. 1937:163 (1937) *p.p.*

G. vaniotii Lévl. in Fedde, Rep. Sp. Nov. 12:182 (1913) *p.p. quoad Esquirol* 701, Fl. Kouy-Tchéou 172 (1914) & Cat. Pl. Yunnan 115 (1916).

G. esquirolii Lévl. in Fedde, Rep. Sp. Nov. 12:183 (1913) & Fl. Kouy-Tchéou 171 (1914).

CHINA. Kweichow, Mou-chang, fleur rose, aperitif pour les chinoises, viii 1905, *Esquirol* 701 (syntype *G. vanioti*, E); hauteurs de Ko-tchang-keou, commune sur les plateaux arides, couleurs blanc-rose, ix 1904, *Esquirol* 194 (holo. *G. esquirolii*, E).

1458. *Gentiana triflora* Pall. var. *japonica* (Kusnez.) Hara, Enum. Sperm. Jap. 1:136 (1948); Toyokuni in Journ. Fac. Sci. Hokkaido Univ. ser. 5 (Bot.) 7:232 (1963); Ohwi, Fl. Jap. (Engl. ed.) 739 (1965).

G. rigescens Franch. var. *japonica* Kusnez. in Acta Hort. Petrop. 13:60 (1893).

G. axillariflora Lévl. & Van. in Bull. Soc. Bot. Fr. 53:648 (1906); Hara in Bot. Mag. Tokyo 51:16 (1937); Sugawara, Ill. Fl. Saghalien 4:1541, t. 705 (1940).

G. naitoana Lévl. & Faurie in Bull. Soc. Bot. Fr. 53:649 (1906).

G. axillariflora Lévl. & Van. var. *naitoana* (Lévl. & Faurie) Koidz. in Bot. Mag. Tokyo 37:44 (1923).

JAPAN. Yezo, (Hokkaido) in humidis sylvarum Nayoro, ix 1904, *Faurie* 5956 (holo. *G. axillariflora*, E); Komagome, prope Aomori, habitat in pratis, ix 1905, *Naito Katsuo* s.n. (holo. *G. naitoana*, E).

1459. *Gentiana vaniotii* Lévl. in Fedde, Rep. Sp. Nov. 12:182 (1913) *p.p. quoad Bodinier* 31, & Cat. Pl. Yunnan 115 (1916); H. Sm. in Hand.-Mazz., Symb. Sin. 7:976 (1936).

CHINA. Yunnan, environs de Yun-nan-sen, commun, dans les bois et les herbages de la mont., fleurs roses, 8 xi 1896, *Bodinier* 31 (lectotype *G. vaniotii*, E).

Whereas Marquand (1937) considered both syntypes of *G. vaniotii* to be the same as *G. rigescens*, Smith (1963, in herb.) retained the specimen cited above as *G. vaniotii*.

Léveillé related his syntypes to *G. scabra* and *G. rigescens* and in relation to the latter species "ad apicem glandulosus" is certainly more applicable to *Bodinier* 31 than to *Esquirol* 701, as also is "foliis . . . subtus ferrugineis" in the brief description. Nevertheless, there is no doubt that *G. rigescens* and *G. vaniotii* are closely related.

1460. *Gentiana zollingeri* Fawcett in Journ. Bot. 21:183 (1883); Hara in Enum. Sperm. Jap. 1:137 (1948); Toyokuni in Acta Phytotax. Geobot. 16:117 (1956) & in Journ. Fac. Sci. Hokkaido Univ. ser. 5 (Bot.) 7:217 (1963); Ohwi, Fl. Jap. (Engl. ed.) 738 (1965).

G. aomorenensis Lévl. in Bull. Soc. Bot. Fr. 53:648 (1906).

G. taquetii Lévl. in Fedde, Rep. Sp. Nov. 12:182 (1913).

JAPAN. Circa Aomori, v 1902, *Faurie* 3 (holo. *G. aomorenensis*, E).

KOREA. In montibus Mokpho, rara, v 1909, *Taquet* 3060 (holo. *G. taquetii*, E).

Material of *G. taquetii* is rather scanty but it appears to be synonymous with *G. zollingeri*.

1461. *Gentianella auriculata* (Pallas) Gillett in Ann. Miss. Bot. Gard. 44:261 (1957); Toyokuni in Journ. Fac. Sci. Hokkaido Univ. ser. 5 (Bot.) 7:191 (1963).

Gentiana auriculata Pallas, Fl. Ross. 1, 2:102, t. 92, f. 1 (1788); Hara, Enum. Sperm. Jap. 1:132 (1948); Toyokuni in Acta Phytotax. Geobot. 16:118 (1956); Ohwi, Fl. Jap. (Engl. ed.) 737 (1965).

Gentiana fauriei Lévl. & Van. in Bull. Soc. Bot. Fr. 53:648 (1906).

JAPAN. Rebunshiri, en touffes larges, très rameuses dès la base, trouvée une fois seulement, rare, i viii 1899, *Faurie* 3519 (holo. *G. fauriei*, E).

1462. *Halenia elliptica* D. Don var. *grandiflora* Hemsl. in Journ. Linn. Soc. (Bot.) 26:141 (1890).

H. vaniotii Lévl. in Fedde, Rep. Sp. Nov. 12:182 (1913); Lévl., Fl. Kouy-Tchéou 172 (1914) *p.p. excl. Cavalerie* 3498.

CHINA. Kweichow, mont de Koa-po, prairies marécageuses de la mont., fleurs moitié plus petites que l'*H. elliptica*, bleu pâle entièrement sans bordure blanche, 10 ix 1899, *Laborde* in herb. *Bodinier* 2685 (holo. *H. vaniotii*, E).

Laborde's remark that the flowers of *H. vaniotii* are half the size of those of *H. elliptica* is puzzling, as they are larger. Léveillé's description merely echoes the field note. The colour variation "sans bordures blanche" is within the variation of *H. elliptica*. *Cavalerie* 3498 belongs to *H. elliptica* var. *elliptica*.

- 1463. *Lomatogonium forrestii*** (Balf. f.) Fern. in *Rhodora* 21:197 (1919).
Pleurogyne forrestii Balf. f. in Notes. R.B.G. Edinb. 4:78, t. 18 (1907).
P. patens Lévl. in Fedde, Rep. Sp. Nov. 13:258 (1914) & Cat. Pl. Yunnan 115 (1916).

CHINA. Yunnan, pâturages des collines derrière Tong-tchouan, 2550 m, gentiana annuelle, fl. bleues, feuilles et tiges vert sombre, tiges horizontales, xi 1912, *E. E. Maire* s.n. (holo. *P. patens*, E).

- 1464. *Nymphoides coreana*** (Lévl.) Hara in Journ. Jap. Bot. 13:26 (1937) & Enum. Sperm. Jap. 1:139 (1948); De Vol in *Taiwania* no. 10:153 (1964).

Limnanthemum coreanum Lévl. in Fedde, Rep. Sp. Nov. 8:284 (1910).

L. parvifolium auct. non Griseb.; Miki in Bot. Mag. Tokyo 49:779 (1935).

KOREA. Quelpaert in agris Hannon, 30 x 1908, *Taquet* 1516, 27 ix 1908, *Taquet* 1518 (syntypes *L. coreanum*, E).

- 1465. *Nymphoides indica*** (L.) O. Kuntze, Rev. Gen. Pl. 2:429 (1891).

Menyanthes indica L., Sp. Pl. 145 (1753).

Limnanthemum taquetii Lévl. in Fedde, Rep. Sp. Nov. 8:285 (1910).

L. esquirolii Lévl. in Fedde, Rep. Sp. Nov. 13:259 (1914) & Fl. Kouy-Tchéou 172 (1914).

KOREA. Quelpaert in stagno Lineum, 14 ix 1908, *Taquet* 1519 (holo. *L. taquetii*, E).

CHINA. Kweichow, lac de Shin-gny-fou, blanche, viii 1909, *Esquirol* 2532 (holo. *L. esquirolii*, E).

- 1466. *Swertia angustifolia*** [Buch.-Ham. ex] D. Don var. ***pulchella*** Burkill in Journ. As. Soc. Bengal n.s. 2:375 (1906); Burt in Notes R.B.G. Edinb. 26:275 (1965).

S. esquirolii Lévl. in Fedde, Rep. Sp. Nov. 12:187 (1913) & Fl. Kouy-Tchéou 174 (1914).

CHINA. Kweichow, sine loc., dans les herbages hautes mont., fleur grise, viii 1905, *Esquirol* 604 (holo. *S. esquirolii*, E).

In the protologue Lévillé made the clerical error of citing Cavalerie as the collector.

- 1467. *Swertia bimaculata*** (Sieb. & Zucc.) Hook. f. & Thoms. ex C.B.Cl. in Journ. Linn. Soc. (Bot.) 14:449 (1875).

Ophelia bimaculata Sieb. & Zucc. in Abh. Bayer. Akad. Wiss. Münch. Math.-Phys. Kl. 4, 3:159 (1846).

Silene esquirolii Lévl., Fl. Kouy-Tchéou 68 (1914).

"*S. biauriculata* Clarke"; Lévl., Fl. Kouy-Tchéou 174 (1914).

Swertia mairei Lévl. in Bull. Acad. Géog. Bot. 25:22 (1915).

S. biauriculata Lévl., Cat. Pl. Yunnan 116 (1915) *nom. nud.*

CHINA. Kweichow, sine loc., fleur blanche avec points violets, xi 1906, *Esquirol* 1067 (holo. *Silene esquirolii*, E); sommet du pic Io-chan, 3300 m, gentiana vivace en petites touffes, fl. jaunes verdâtre, x 1912, *E. E. Maire* s.n. (holo. *Swertia mairei*, E).

Only the name *Swertia biauiculata* was listed in *Cat. Pl. Yunnan*. In the previous year in *Fl. Kouy-Tchéou*, under "*S. biauiculata* Clarke" Léveillé cited *Cavalerie* 576. It seems possible that Léveillé later misread the identification albeit in his own hand, as *S. biauiculata* instead of *S. bimaculata*. *Swertia bimaculata* Lévl. was unfortunately listed in *Index Kewensis*.

1468. *Swertia cincta* Burkill in Journ. As. Soc. Beng. n.s. 2:319 (1906).

S. alboviolacea Lévl. in Bull. Acad. Géog. Bot. 25:23 (1915).

CHINA. Yunnan, bord des torrents de Kin-tchong-chan, 2500 m, gentiana annuelle rameuse, fl. blanc avec couronne violette au fond du calice, xi 1912, *E. E. Maire* s.n. (holo. *S. alboviolacea*, E).

1469. *Swertia decora* Franch. in Bull. Soc. Bot. Fr. 46:317 (1899).

Pleurogyne bodinieri Lévl. in Fedde, Rep. Sp. Nov. 13:259 (1914) & Cat. Pl. Yunnan 115 (1916).

CHINA. Yunnan, environs de Yun-nan-sen, dans les herbages de la mont., rare, fl. roses (bleuâtres à la dessiccation), 18 xi 1896, *Bodinier* 37 (holo. *P. bodinieri*, E).

1470. *Swertia macrosperma* (C.B.Cl.) C.B.Cl. in Hook. f. & Thoms., Fl. Brit. Ind. 4:123 (1883).

Ophelia macrosperma C.B.Cl. in Journ. Linn. Soc. (Bot.) 14:448 (1875).

Swertia scandens Lévl. in Fedde, Rep. Sp. Nov. 12:188 (1913) & Fl. Kouy-Tchéou 174 (1914).

CHINA. Kweichow, Pin-fa, Yuin-on-chan, fl. d'un blanc pur, 8 ix 1902, *Cavalerie* 411 (holo. *S. scandens*, E).

1471. *Swertia nervosa* (D. Don) C.B.Cl. in Hook. f. & Thoms., Fl. Brit. Ind. 4:125 (1883); Burt in Notes R.B.G. Edinb. 26:274 (1965).

Agathotes nervosa D. Don. in G. Don, Gen. Hist. 4:177 (1837).

S. cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 12:187 (1913) & Fl. Kouy-Tchéou 174 (1914).

CHINA. Kweichow, Tin-fan, peta. partié supèr-pourpre pointil. de blanc, ruis. bord rizières, 6 x 1904, *Cavalerie* 1932 (holo. *S. cavaleriei*, E).

1472. *Swertia patens* Burkill in Journ. As. Soc. n.s. 7:82 (1911); H. Sm. in Hand.-Mazz., Symb. Sin. 7:985 (1936).

Pleurogyne mairei Lévl. in Fedde, Rep. Sp. Nov. 13:258 (1914) & Cat. Pl. Yunnan 115 (1916).

P. mairei Lévl. var. *rubropunctata* Lévl. in Fedde, Rep. Sp. Nov. 13:258 (1914) & Cat. Pl. Yunnan 115 (1916).

P. vanioti Lévl. in Bull. Acad. Géog. Bot. 25:22 (1915).

CHINA. Yunnan, monts calcaires de Pan-pien-kai, 2600 m, gentiana vivace, tiges étalées sur le sol, fl. blanc-verdâtre, viii, *E. E. Maire* s.n. (holo. *P. mairei*, E); rocheuse de Pan-pien-kai, 2550 m, coteaux arides, gentiana vivace, étalée, fl. blanc, pointillées de rouge, ix 1912, *E. E. Maire* s.n. (holo. var. *rubropunctata*, E); pâtures des collines arides à Pan-pien-kai, 2550 m, gentiana vivace, étalée sur le sol, fl. blanches, pointillées de brun, vii 1912, *E. E. Maire* s.n. (holo. *P. vanioti*, E).

1473. *Tripterospermum volubile* (D. Don) Hara in Journ. Jap. Bot. 40:21 (1965); H. Sm. in Notes R.B.G. Edinb. 26:244 (1965).

Gentiana volubilis D. Don, Prodr. Fl. Nepal 126 (1825).

Crawfordia fasciculata Wall. var. *monantha* Lévl., Fl. Kouy-Tchéou 170 (1914), nom. nud.

CHINA. Kweichow, district de Tsin-gay, haute mont. de Kao-po, fruits rouge, 14 xii 1897, Laborde in herb. Bodinier 2019 (*C. fasciculata* var. *monantha*, E).

H. Smith (1965) made the combination *Tripterospermum volubile* but it was published two months later than Hara's.

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BORAGINACEAE

1474. *Amsinckia intermedia* Fisch. & Meyer, Ind. Sem. Hort. Petrop. 2: 2, 26 (1836); I. M. Johnston in Journ. Arn. Arb. 18:22 (1937).

Lithospermum komarovianum Lévl. in Fedde, Rep. Sp. Nov. 8:280 (1910). SACHALIN. In pago Mitsuriyoka, vii 1908, Faurie 687 (holo. *L. komarovianum*, E).

1475. *Antiotrema dunnianum* (Diels) Hand.-Mazz. in Anz. Akad. Wiss. Wien Math.-Nat. Kl. 57:239 (1920) & Symb. Sin. 7:825 (1936); I. M. Johnston in Journ. Arn. Arb. 18:25 (1937).

Cynoglossum cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 12:534 (1913), Fl. Kouy-Tchéou 53 (1914), Cat. Pl. Yunnan 20 (1915) & Cat. Pl. Seu-Tchouen t. 5 (1918).

CHINA. Kweichow, Gan pin, bleue, iv 1910, Cavalerie 2117 (holo. *C. cavaleriei*, E).

1476. *Arnebia hancockiana* (Oliver) I. M. Johnston in Journ. Arn. Arb. 18:21 (1937).

Lithospermum hancockianum Oliver in Hook. Ic. 25: t. 2457 (1896).

L. mairei Lévl. in Fedde, Rep. Sp. Nov. 12:286 (1913) & Cat. Pl. Yunnan 22 (1915).

CHINA. Yunnan, rochers dénudés-arides à Ma-hong, 2600 m, vivace, fl. bleues de ciel, iv 1912, E. E. Maire s.n. (holo. *L. mairei*, E).

This species belongs to Sect. *Macrotomia* H. Riedl by virtue of the annulus at the base of the corolla. The dry habitat is also typical. Sect. *Macrotomia* is sometimes regarded as a separate genus, in which case a new combination would be required.

Echium connatum Lévl. = *Triosteum himalayanum* [Wall. ex] Roxb. (Caprifoliaceae).

1477. *Ehretia acuminata* R. Br. var. *obovata* (Lindl.) I. M. Johnston in Journ. Arn. Arb. 32:21 (1951).

E. serrata Roxb. var. *obovata* Lindl. in Edward's Bot. Reg. 13: sub t. 1097 (1827).

E. argyi Lévl. in Fedde, Rep. Sp. Nov. 11:67 (1912) & in Mem. Real Acad. Ci. Artes Barcelona ser. 3, 12:545 (1916); Rehder in Journ. Arn. Arb. 18:243 (1937) pro syn. sub *E. acuminata*.

1478. *Ehretia dunniana* Lévl. in Fedde, Rep. Sp. Nov. 11:65 (1912) & Fl. Kouy-Tchéou 53 (1914); Rehder in Journ. Arn. Arb. 15:320 (1934); I. M. Johnston, l.c. 32:104 (1951).

Ehretia esquirolii Lévl. (1914)—non Lévl. (1913) = *Tarenna mollissima* (Hook. & Arn.) Merrill (Rubiaceae).

Note: The type of *E. esquirolii* Lévl. (1913) in Fedde, Rep. Sp. Nov. 12:535 is *Esquirol* 3214. I have not yet found it in the Lévillé herbarium.

1479. *Lithospermum officinale* L., Sp. Pl. 132 (1753); I. M. Johnston in Journ. Arn. Arb. 18:21 (1937).

L. albiflorum Van. in Le Monde des Pl. sér. 2, 7:42 (1905) & in Fedde, Rep. Sp. Nov. 2:156 (1906); Lévl., Fl. Kouy-Tchéou 54 (1914).

CHINA. Kweichow, mont de Lou tsong koan, fleurs blanches, dans les grandes herbes, la brousse de la mont., 1 vi 1897, *Bodinier* 2230 (holo. *L. albiflorum*, E).

Omphalodes bodinieri Lévl. = *Mitreola pedicellata* Benth. (Loganiaceae).

1480. *Trichodesma calycosum* Collett & Hemsl. in Journ. Linn. Soc. (Bot.) 28:92 (1890); Hand.-Mazz., Symb. Sin. 7:822 (1936); I. M. Johnston in Journ. Arn. Arb. 33:75 (1952).

T. hemsleyana Lévl. in Fedde, Rep. Sp. Nov. 9:327 (1911) & Fl. Kouy-Tchéou 55 (1914).

CHINA. Kweichow, sine loc. *Esquirol* 745 (holo. *T. hemsleyana*, E).

Trigonotis bodinieri (Lévl.) Lévl. = *Mitreola pedicellata* Benth. (Loganiaceae).

1481. *Trigonotis cavaleriei* (Lévl.) Hand.-Mazz., Symb. Sin. 7:819 (1936); I. M. Johnston in Journ. Arn. Arb. 18:6 (1937).

Omphalodes cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 12:188 (1913) & Fl. Kouy-Tchéou 54 (1914).

O. esquirolii Lévl. in Fedde, Rep. Sp. Nov. 12:188 (1913), Fl. Kouy-Tchéou 54 (1914) & Ill. Cat. Pl. Seu-Tchouen t. 6 (1918).

O. vaniotii Lévl. in Fedde, Rep. Sp. Nov. 12:188 (1913) & Fl. Kouy-Tchéou 55 (1914).

CHINA. Kweichow, Pin-fa, bord des ruisseaux, fl. bleue, 13 iv 1902, *Cavalerie* 806 (holo. *O. cavaleriei*, T. *cavaleriei*, E); Tang-tchang (Hoang-tiao-pa) vi 1909, *Esquirol* 1559 (holo. *O. esquirolii*, E); sine loc., lieux humides, fleur bleu clair, v 1905, *Esquirol* 454 (holo. *O. vaniotii*, E).

1482. *Trigonotis macrophylla* Van. in Le Monde des Pl. sér. 2, 7:42 (1905) & in Fedde, Rep. Sp. Nov. 2:157 (1906); I. M. Johnston in Journ. Arn. Arb. 18:4 (1937).

T. peduncularis Benth. var. *macrophylla* (Van.) Lévl., Fl. Kouy-Tchéou 55 (1914).

CHINA. Kweichow, environs de Kouy-yang, mont. du collège, gorges de Yang-pa, bord des torrents de mont., jolies fleurs bleues, 20 vii 1898, *Esquirol* 2426 (holo. E).

1483. *Trigonotis mairei* (Lévl.) I. M. Johnston in Journ. Arn. Arb. 18:4 (1937).

Omphalodes mairei Lévl. in Fedde, Rep. Sp. Nov. 12:188 (1913) & Cat. Pl. Yunnan 22 (1915).

CHINA. Yunnan, sous bois humides à Long-ky, plante vivace, feuilles persistantes, fl. violacées, vi 1911, *E. E. Maire* s.n. (holo. E).

CONVOLVULACEAE

1484. *Argyreia capitata* (Vahl) Choisy in Mém. Soc. Phys. Hist. Nat. Genève 6:423 (1833) (= Conv. Or. 41, 1834) & in DC. Prodr. 9:332 (1845).

Convolvulus capitatus Vahl, Symb. Bot. 3:28 (1794).

Argyreia rufo-hirsuta Lévl. in Fedde, Rep. Sp. Nov. 9:452 (1911) & Fl. Kouy-Tchéou 113 (1914).

CHINA. Kweichow, route de Pi-Ting-Lo-Yen, fleur bleue, vii 1903, *Esquirol* 124 (holo. *A. rufo-hirsuta*, E).

1485. *Argyreia seguinii* (Lévl.) Van. ex Lévl., Fl. Kouy-Tchéou 113 (1914) & China Rev. Ann. 18 (1916); Rehder in Journ. Arn. Arb. 15:319 (1934) & 18:242 (1937); Hand. Mazz., Symb. Sin. 7:813 (1936).

Lettsomia seguinii Lévl. in Fedde, Rep. Sp. Nov. 9:452 (1911).

As pointed out by Rehder there is a description of *A. seguinii* by Vaniot (unpublished) accompanying the specimen *Séguin* 2438. Léveillé cited six syntypes partially using Vaniot's descriptions and *Séguin* 2438 is here designated as the lectotype.

1486. *Calystegia japonica* Choisy in Zoll., Syst. Verz. Ind. Archip. 2:130 & 132 (1854).

Convolvulus taquetii Lévl. in Fedde, Rep. Sp. Nov. 12:99 (1913).

KOREA. Quelpaert in sepibus Schetimri (?), viii 1908, *Taquet* 1162 (holo. *Convolvulus taquetii*, E).

1487. *Ipomoea aquatica* Forsk., Fl. Aeg.-Arab. 44 (1775); van Ooststr. in Blumea 3:528 (1940).

Convolvulus argyi Lévl. in Fedde, Rep. Sp. Nov. 12:99 (1913) & in Mem.

Real Acad. Ci. Artes Barcelona ser. 3, 12:457 (1916).

CHINA. Kiangsu, sine loc., d'Argy s.n. (holo. *C. argyi*, E).

1488. *Ipomoea martinii* Lévl. in Fedde, Rep. Sp. Nov. 9:453 (1911), Fl. Kouy-Tchéou 114 (1914) & Cat. Pl. Yunnan 58 (1916).

I. hungaiensis Lingelsh. & Borza in Fedde, Rep. Sp. Nov. 13:389 (1914); Hand.-Mazz., Symb. Sin. 7:813 (1936); Icon. Cormophyt. Sin. 3:532 (1974).

I. wilsonii Gagnep. in Not. Syst. 3:150 (1915).

CHINA. Kweichow, environs de Gan-pin, dans la mont., fleurs jaunes, 9 ix 1897, Martin & Bodinier 1806 (holo. *I. martinii*, synt. *I. wilsonii*, E).

In the Léveillé herbarium there is also a Maire specimen from Pi-ka-tang that is probably a duplicate of another syntype of *I. wilsonii*, a species Léveillé had already recognised (in 1916) as synonymous with his *I. martinii*.

I have not seen the type of *I. hungaiensis* but it is evident from the material at Edinburgh and an illustration (*Icon. Cormophyt. Sin.* 3:532, 1974) that it is synonymous with *I. martinii* and I accordingly reduce it to synonymy.

1489. *Ipomoea nil* (L.) Roth, Cat. Bot. 1:36 (1797); van Ooststr. in Blumea 3:497 (1940).

Convolvulus nil L., Sp. Pl. ed. 2, 219 (1762).

Pharbitis nil (L.) Choisy in Mém. Soc. Phys. Hist. Nat. Genève 6:439 (1833).

Ipomoea vaniotiana Lévl. in Fedde, Rep. Sp. Nov. 9:453 (1911).

CHINA. Hong Kong, bois de Douglas, tige volubile, fleurs blanches, bractées distantes de la fleur, 22 v 1896, Bodinier 1465 (holo. *I. vaniotiana*, E).

Although the flowers of *I. nil* are usually pale or bright blue, and van Ooststrom says they are "rarely entirely white", the white-flowered *I. vaniotiana* matches *I. nil* in other respects. Chinese material called *I. hederacea* probably belongs to *I. nil*.

1490. *Ipomoea pes-caprae* (L.) R. Br. subsp. *brasiliensis* (L.) van Ooststr. in Blumea 3:533 (1940); Fosberg & Sachet in Smiths. Contr. Bot. no. 36:20 (1977).

Convolvulus brasiliensis L., Sp. Pl. 159 (1753).

Ipomoea brasiliensis (L.) Sw., Hort. Suburb. Lond. 35 (1818); St. John in Bot. Jahrb. 89:573 (1970).

I. fauriei Lévl. in Fedde, Rep. Sp. Nov. 10:154 (1911); Rock in Fedde, Rep. Sp. Nov. 13:358 (1914) pro syn sub *I. pes-caprae* (L.) R. Br.

HAWAIIAN (SANDWICH) ISLANDS. Molokai, in littore Halawa, vi 1910, Faurie 1035 (typus *I. fauriei*—n.v.); Kauai, Koloa, xii 1909, Faurie 1049 (typus *I. fauriei*—n.v.).

Although I have not seen the types of *I. fauriei* I have placed this species under subsp. *brasiliensis* and not *I. pes-caprae*. In his paper on the "Classification and Distribution of the *Ipomoea pes-caprae* Group" (see above) it is clear from the distribution given by St. John that Lévillé's Hawaiian species probably belongs here.

1491. *Ipomoea purpurea* (L.) Roth, Bot. Abh. 27 (1787); van Ooststr. in Blumea 3:496 (1940).

Convolvulus purpureus L., Sp. Pl. ed. 2, 219 (1762).

Pharbitis hispida (Zucc.) Choisy in Mém. Soc. Phys. Hist. Nat. Genève 6:438 (1833); Liou & Ling, Fl. Ill. N. Chine 1:37, t. 14 (1931).

Ipomoea chanetii Lévl. in Fedde, Rep. Sp. Nov. 9:452 (1911) & in Bull. Acad. Géog. Bot. 27:74 (1917).

CHINA. Hopei, Tcheng-Ting-Fou, lieux frais, incultes, 15 ix 1905, *Chanet* 124 (holo. *I. chanetii*, E).

1492. *Ipomoea quamoclit* L., Sp. Pl. 159 (1753); van Ooststr. in Blumea 3:555 (1940).

Quamoclit pinnata (Desr.) Bojer, Hort. Maurit. 224 (1837); Rehder in Journ. Arn. Arb. 18:242 (1937).

Convolvulus pennatus Desr. in Lamk. Encycl. Meth. 3:567 (1792).

Incarvillea argyi Lévl. in Bull. Acad. Géog. Bot. 24:292 (1914), in Mem. Real Acad. Ci. Artes Barcelona ser. 3, 12:545 (1916), & Cat. Ill. Pl. Seu-Tchouen, pl. 4 (1918).

CHINA. Kiangsu, *d'Argy* s.n. (holo. *I. argyi*, E).

1493. *Ipomoea stolonifera* (Cyr.) J.F. Gmel., Syst. Veg. 1:345 (1796).

Convolvulus stoloniferus Cyr., Pl. Rar. Neap. 1:14, t. 5 (1788).

C. acetosaefolius Vahl, Eclog. 1:18 (1798).

Ipomoea acetosaefolius (Vahl) Roem & Schult., Syst. 4:246 (1819); Rock in Fedde, Rep. Sp. Nov. 13:358 (1914).

I. koloaensis Lévl. in Fedde, Rep. Sp. Nov. 10:154 (1911).

HAWAIIAN (SANDWICH) ISLANDS. Kauai, Koloa, xii 1909, *Faurie* 1036 (typus *I. koloaensis*—n.v.).

1494. *Porana racemosa* Roxb., Fl. Ind. 2:41 (1824); Rehder in Journ. Arn. Arb. 15:319 (1934); van Ooststr. in Blumea 3:93 (1938).

P. gagnepainiana Lévl., Cat. Pl. Yunnan 58 (1916).

1495. *Porana sinensis* Hemsl. in Journ. Linn. Soc. (Bot.) 26:167 (1890); Rehder in Journ. Arn. Arb. 15:318 (1934).

P. esquirolii Lévl. in Fedde, Rep. Sp. Nov. 9:444 (1911), Fl. Kouy-Tchéou 114 (1914) & Cat. Pl. Yunnan 58 (1916).

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SOLANACEAE

Atropanthe mairei (Lévl.) Lévl. (Syn. *Wahlenbergia mairei* Lévl.) = *Cyananthus albiflorus* Chamberlain (Campanulaceae).

1496. *Mandragora caulescens* C.B.Cl. in Hook. f., Fl. Brit. Ind. 4:242 (1883); Hand.-Mazz., Symb. Sin. 7:828 (1936).

Mairella yunnanensis Lévl., Cat. Pl. Yunnan 199, f. 53 (1916).

CHINA. Yunnan, Ta-Hai-Tse, 3200 m, pâturages du haut plateau, v 1912, E. E. Maire s.n. (holo. *Mairella yunnanensis*, E).

Léveillé apparently intended *Mairella* as a new name for *Phelipaea* Desf. (1800)—non C. A. Meyer (1830)—however, I can find no reference to Meyer having described a genus *Phelipaea* although he did describe *P. lanuginosa* in Ledeb., Fl. Alt. 2:460 (1830). In any case *Mairella yunnanensis* is a synonym of *Mandragora caulescens*.

1497. *Nothocestrum longifolium* A. Gray in Proc. Am. Acad. Arts Sci. 6:48 (1862); Rock in Fedde, Rep. Sp. Nov. 13:357 (1914); B. C. Stone in Madroño 16:163 (1962) & in Journ. Arn. Arb. 43:411 (1962); Lauener in Notes R.B.G. Edinb. 17:269 (1967).

Platydesma fauriei Lévl. in Fedde, Rep. Sp. Nov. 10:153 (1911).

HAWAIIAN (SANDWICH) ISLANDS. Oahu, Punaluu, rara, v 1910, *Faurie* 242 (typus *P. fauriei*—n.v.).

1498. *Physalis alkekengi* L., Sp. Pl. 183 (1753).

P. alkekengi L. var. *anthoxantha* Lévl. in Fedde, Rep. Sp. Nov. 6:266 (1909) & Fl. Kouy-Tchéou 401 (1915).

CHINA. Kweichow, sine loc., fleur jaunâtre, fruit rouge, iv 1905, *Esquirol* 781 (holo. var. *anthoxantha*, E).

1499. *Physalis minima* L., Sp. Pl. 183 (1753).

P. bodinieri Lévl. & Van. in Bull. Soc. Bot. Fr. 55:208 (March 1908) & Fl. Kouy-Tchéou 402 (1915).

P. fauriei Lévl. & Van. in Le Monde des Pl. 10:37 (Sept. 1908) & in Fedde, Rep. Sp. Nov. (Nov. 1908) p.p. *quoad Faurie* 773.

CHINA. Kweichow, champs de Sueo Hai(?), ix 1904, *Esquirol* 234 (holo. *P. bodinieri*, E).

KOREA. Quelpaert in agris Hongno, planta erecta, x 1906, *Faurie* 773 (synt. *P. fauriei*, E).

Waterfall (1967, pp. 221-222) commented on the "question of the identity of *P. minima* L." and said that "one might assume that *P. minima* is a *nomen confusum* and that it should be dropped altogether". He noted that New World material of '*P. minima*' is referable to *P. lagascae* Roem. & Schult. and Asiatic material of '*P. minima*' required further study.

See *Physalis repens* for further comments on *P. fauriei*.

1500. *Physalis pubescens* L., Sp. Pl. 183 (1753).

P. esquirolii Lévl. in Bull. Soc. Bot. Fr. 55:208 (1908) & Fl. Kouy-Tchéou 402 (1915).

P. cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 11:295 (1912) & Fl. Kouy-Tchéou 402 (1915).

CHINA. Kweichow, Kiao-tsou, rizières, fleurs jaunes, fond cramoisi, 13 xii 1904, *Esquirol* 329 (holo. *P. esquirolii*, E); Kouy-houa, sous rochers, viii 1910, *Cavalerie* 3800 (holo. *P. cavaleriei*, E).

1501. *Physalis repens* Nakai in Bot. Mag. Tokyo 29:3 (1915) & in Bull. Nat. Sci. Mus. Tokyo no. 31:95 (1952).

P. fauriei Lévl. & Van. in Le Monde des Pl. 10:37 (1908) p.p. *quoad* *Faurie* 774; Nakai in Bull. Nat. Sci. Mus. Tokyo no. 31:95 (1952) pro syn. sub *P. angulata* L.

KOREA. Quelpaert, in agris Hongno, x 1906, *Faurie* 774 (synt. *P. fauriei*, E).

In the protologue of *P. fauriei*, Lévl. & Van. cited two syntypes, *Faurie* 773 & 774. The description covered both the repent, pubescent specimen of *F.* 774 and the erect, glabrous specimen of *F.* 773. Although *P. fauriei* is earlier than *P. repens*, the former is here rejected as a *nomen confusum*.

Nakai referred *P. fauriei* to *P. angulata* but having compared it with specimens of *P. angulata* authenticated by Waterfall, I do not agree. However, there is no doubt that the Asiatic specimens of *Physalis* require careful study where they represent cultivated material of American species. *P. pubescens* is native to Mexico, South America and the West Indies but is apparently cultivated in China. *P. peruviana* is represented in China as also is the European *P. alkekengi*. *P. angulata* from North, Central and South America and the West Indies is represented in China, Korea and Japan. *P. minima* is an Indian species, whilst *P. repens* appears to be a Korean endemic, but is closely related to *P. minima*. It is possible that further study may change my assessment of Lévillé's species, but at least they can be said with certainty to belong to the genus *Physalis*.

In addition to these species, Pojarkova (1954) has described *P. praetermissa*, *P. glabripes*, *P. kansuensis* and *P. szechuanica* from Asia, but I have not seen any of them.

1502. *Scopolia stramonifolia* (Wall.) Shrestha in Bull. Dept. Med. Pl. Nepal 2:81 (1969).

Physalis stramonifolia Wall. in Roxb., Fl. Ind. 2:242 (1824).

Nicandra anomala Link & Otto, Ic., Pl. Sel. 6:77, t. 35 (1825).

Anisodus luridus Link & Otto, Ic. Pl. Sel. 6:77, t. 35 (1825) *nom. nud.* in nota; Nees in Trans. Linn. Soc. 17:72 (1836).

A. stramonifolius (Wall.) G. Don in Loud., Hort. Brit. 61 (1832).

Scopolia lurida (Link & Otto ex Nees) Dunal in DC., Prodr. 13 (1):555 (1852).

S. mairei Lévl. in Bull. Acad. Géog. Bot. 25:41 (1915).

S. anomala (Link & Otto) Airy-Shaw in Journ. Bot. 75:195 (1937).

CHINA. Yunnan, rochers de Ma-hong, 2800 m, plante vivace en touffes, haut 0.50 m, fl. jaunâtres feuil. molles, viii 1912, *E. E. Maire* s.n. (holo. *S. mairei* E).

Anisodus luridus was not validly published by Link & Otto and the first to do so appears to be Nees. Airy-Shaw made the combination *Scopolia anomala* being under the impression that *Nicandra anomala* was published in 1823, a year earlier than *Physalis stramonifolia*.

I am grateful to Messrs A. Grierson & D. Long for drawing my attention to the correct name for the above taxon.

1503. *Solanum alatum* Moench, Meth. 474 (1794).

S. chenopodiifolium Lévl. in Fedde, Rep. Sp. Nov. 12:531 (1913) & Cat. Pl. Yunnan 267 (1917).

CHINA. Yunnan, plaine de Tong-tchouan, cultures, solanée annuelle, dressée, fl. blanches, ix 1912, E. E. Maire s.n. (holo. *S. chenopodiifolium*, E).

The leaves of the type collection are coarsely sinuate-dentate and I therefore place *S. chenopodiifolium* here rather than under *S. nigrum*. Fruits of *S. nigrum* are black and those of *S. alatum* red but this can be difficult to see in dried immature berries such as occur in *S. chenopodiifolium*. Two other Maire collections from Tong-tchouan have identical leaves to *S. chenopodiifolium* but the fruits are said to be red in one and black in the other.

S. alatum is sometimes regarded as a subspecies of *S. nigrum*.

1504. *Solanum capsicoides* All., Auct. Syn. 12 (1773) & Misc. Taur. 5:64 (1774-1776); Chiov. in Annali Bot. 10:19 (1912); Dandy in Taxon 19:625 (1970).

S. aculeatissimum Jacq., Icon. Pl. Rar. 1:5, t. 41 (1781) & Collect. 1:100 (1787); Bitter in Fedde, Rep. Sp. Nov. Beih. 16:148 (1923); Rehder in Journ. Arn. Arb. 16:314 (1935) p.p. *quoad* syn. *S. cavaleriei*.

S. cavaleriei Lévl. & Van. in Bull. Soc. Bot. Fr. 55:207 (1908) & Fl. Kouy-Tchéou 403 (1915).

CHINA. Kweichow, Pref. de Ly-po-hien, 10 viii 1899, *Cavalerie* in herb. Bodinier 2722 (holo. *S. cavaleriei*, E).

1505. *Solanum ciliatum* Lam., Encycl. Méth. Bot. 4:298 (1797) & Tabl. Encycl. Méth. 2:21 (1799); Bitter in Fedde, Rep. Sp. Nov. Beih. 16:151 (1923).

S. bodinieri Lévl. & Van. in Bull. Soc. Bot. Fr. 55:206 (1908); Rehder in Journ. Arn. Arb. 16:314 (1935) pro syn. sub *S. aculeatissimum*.

CHINA. Hong Kong, plage sablonneuse à l'Île Verte, 31 vii 1895, *Bodinier* s.n. (holo. *S. bodinieri*, E).

S. capsicoides (*S. aculeatissimum*) and *S. ciliatum* are closely related species which have been confused but the latter can be readily distinguished by the winged seeds and more rounded leaf lobes.

1506. *Solanum cornutum* Lam., Encycl. Méth. Bot. 4:308 (1797) & Tabl. Encycl. Méth. 2:25 (1799); Rehder in Journ. Arn. Arb. 18:245 (1937).

S. heudesii Lévl. in Fedde, Rep. Sp. Nov. 11:295 (1912) & in Mem. Real Acad. Ci. Artes Barcelona ser. 3, 12:562 (1916).

CHINA. Kiangsu, Chang Hay, jardin Bot. de Jésuites à Zi-ka-wei, origine de l'intérieur de la Province, viii 1891, *Bodinier* s.n. (holo. *S. heudesii*, E).

Rehder noted that the "specimen agrees well with the Mexican specimens of *S. cornutum*". There is no material of *S. cornutum* at Edinburgh with which to compare *S. heudesii* but Bodinier's specimen does compare favourably with an illustration of *S. cornutum* (*Gard. Chron.* 22:311, t. 94, 1897) and so I have followed Rehder.

1507. *Solanum diflorum* Vell., *Fl. Flum.* 84 (1825); C. V. Morton, *A Revision of the Argentine Species of Solanum* 167 (1976).

S. capsicastrum [Link ex] Schauer in Otto & Dietr. *Allgem. Gartenz.* 1:229 (1833); Rehder in *Journ. Arn. Arb.* 18:245 (1937).

S. dunnianum Lévl. in Fedde, *Rep. Sp. Nov.* 9:324 (1911), *Fl. Kouy-Tchéou* 403 (1915) & *Cat. Pl. Yunnan* 267 (1917).

CHINA. Kweichow, jardin de H.K.-Chou (Hoang-Ko-Chou) et abondante aux rochers de Ting mey, fleur blanche, vi 1905, *Esquirol* 536 (holo. *S. dunnianum*, E).

1508. *Solanum erianthum* D. Don, *Prodr. Fl. Nep.* 96 (1825); Urban in Fedde, *Rep. Sp. Nov.* 16:40 (1919); Roe in *Brittonia* 19:358 (1967), 24:251 (1972).

S. verbascifolium auct. non L.; Lévl., *Fl. Kouy-Tchéou* 403 (1915) & *Cat. Pl. Yunnan* 267 (1917); Rehder in *Journ. Arn. Arb.* 18:245 (1937).

Ficus (?) *corymbifera* Lévl. & Van. in *Mem. Real Acad. Ci. Artes Barcelona*, ser. 3, 6:149 (1907) & in Fedde, *Rep. Sp. Nov.* 4:83 (1907).

CHINA. Kweichow, Ouang-mou, vi 1904, *Esquirol* 137, (holo. *F. corymbifera*, E).

1509. *Solanum nigrum* L. *Sp. Pl.* 186 (1753).

S. nodiflorum Jacq., *Ic. Pl. Rar.* 2:11, t. 326 (1788) & *Collect.* 2:288 (1789); Rock in Fedde, *Rep. Sp. Nov.* 13:353 (1914).

S. fauriei Lévl. in Fedde, *Rep. Sp. Nov.* 10:152 (1911).

S. ganchouenense Lévl. in Fedde, *Rep. Sp. Nov.* 11:295 (1912) & *Fl. Kouy-Tchéou* 403 (1915).

HAWAIIAN (SANDWICH) ISLANDS. Oahu, Kaala, xi 1909, *Faurie* 861 (typus *S. fauriei*—n.v.).

CHINA. Kweichow, Gan-chouen, viii 1910, *Cavalerie* 3815 (holo. *S. ganchouenense*, E).

1510. *Solanum surattense* Burm. f., *Fl. Ind.* 57 (1768).

S. xanthocarpum Schrad. & Wendl. in Schrad., *Sert. Hannov.* 1:8, t. 2 (1795).

S. mairei Lévl. in Fedde, *Rep. Sp. Nov.* 12:531 (1913) & *Cat. Pl. Yunnan* 267 (1917).

CHINA. Yunnan, plaine de Kiao-kia, 400 m. solanée vivace, épineuse, fl. violacée, v 1912, *E. E. Maire* s.n. (holo. *S. mairei*, E).

1511. *Tubocapsicum anomalum* (Franch. & Sav.) Makino in Bot. Mag. Tokyo 22, 19 (1908); Hara, Enum. Sperm. Jap. 1:244 (1948); Nakai in Bull. Nat. Sci. Mus. Tokyo no. 31:95 (1952).

Capsicum anomalum Franch. & Sav., Enum. Pl. Jap. 2:452 (1878).

Solanum anodontum Lévl. & Van. in Le Monde des Pl. 10:37 (1908) & in Fedde, Rep. Sp. Nov. 6:126 (1908); Bitter in Fedde, Rep. Sp. Nov. 11:491 (1913).

KOREA. Quelpaert, in herbis montium, x 1906, *Faurie* 776 (holo. *S. anodontum*, E).

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ADDENDUM

After this paper was submitted for publication, the author received a copy of *Flora Reipublicae Popularis Sinicae*, vol. 63 (1977) containing the families Apocynaceae and Asclepiadaceae by Tsiang Ying and Li Ping T'ao.

Entries under these two families in the Catalogue have been checked against the Flora and the following amendments should be made.

APOCYNACEAE

1423. All names should go under *Melodinus fusiformis* [Champ. ex] Benth. in Hook., Journ. Bot. Kew Misc. 4:332 (1852); Tsiang & P. T. Li in Fl. Reip. Pop. Sin. 63:29 (1977).

ASCLEPIADACEAE

1443. All names should go under *Metaplexis hemsleyana* Oliv. in Hook., Ic. Pl. 20: t. 1970 (1891); Tsiang & P. T. Li in Fl. Reip. Pop. Sin. 63:406 (1977).

1448. *Dischidia yunnanensis* Lévl. which had been identified as *Tylophora* sp. should now go under *Biondia yunnanensis* (Lévl.) Tsiang in Sunyatsenia 6:126, f. 13 (1941); Tsiang & P. T. Li in Fl. Reip. Pop. Sin. 63:401 (1977).