

Contributiones ad Floram Formosanam

Auctore

Yoshimatsu Yamamoto

(1) **Alsophila acaulis** Makino, in Tokyo Bot. Mag. XXVIII. (1914) No. 336, p. 335; Y. Ogura in Tokyo Bot. Mag. XXXV. (1921) p. 113 et XXXIX. (1925) No. 467, p. 329; Y. Ogura in Journ. Facul. Sci. Imp. Univ. Tokyo, Sec. III. (Bot.) I. part 2, (1927) p. 224; Makino et Nemoto, Fl. Jap. (1925) p. 1671; Nakai in Tokyo Bot. Mag. XLI. (1927) No. 483, p. 70.

Nom. Jap. Kusa-maruhachi.

Hab. In monte Shichisei, leg. Y. Shimada, Mart. 1915.

Distrib. Shikoku: prov. Tosa (Yatsuka-mura)-typus; Liūkiū: ins. Okinawa; Honshū: prov. Kii.

(2) **Crawfordia cordifolia** Yamamoto, sp. nov.

Caules herbacei graciles, volubiles repentesque, ad nodos radican-tes, saepissime breviter ramosi. Folia opposita petiolata, late ovata v. cordata: minora circ. 7 mm longa 6 mm lata: majora 17 mm longa 12 mm lata; omnia apice mucronata, basi cuneato-cordata v. saepissime rotundata, margine integerrima, 3-v. 5 nervia, nervulosa, pagine glabra, petiolis 3-15 mm longis glabris. Flores axillares et plerumque solitarii, purpurei speciosi, pedicellati; pedi-cellis subsessilibus basi foliolatis. Calyx tubulatus, viridescens, gl-aber, ad orem dentatus; tubo superne dilatato; 6 mm longo, 5.5 mm in diametro, longitudinaliter 5-alato; dentibus 5, distantibus, acqu-aliter lanceolatis v. ellipticis v. foliaceo-dilatatis, 5 mm longis 2 mm latis. Corolla elongato tuburiformis, apice amphita, circ. 35 mm longa, ad orem 13 mm in diametro, ad inferiorem gradatim angust-

ior, apice 5-lobata; lobis ovatis aequalibus apice subito acuminatis, 4 mm longis et latis. Stamina 5, aequali-longa, ad 1 mm altitudinem corollae tubo inserta; filamentis filiformibus circ. 20 mm longis, antheris inclusis oblongis, 1 mm longis, 0.7 mm latis, 2-ocularibus. Ovarium elongato-ellipticum, 18 mm longum, 3 mm in diametro, basi disco hypogyno 5-lobato cinctum, uniloculare; ovulis oblongis suturae insertis; stylus filiformis circ. 15 mm longus, stygmatibus bimis oblongis revolutis papillosis.

Nom. Jap. Aoi-tsururindō (nov.)

Hab. In monte Nankotaizan, ad circ. 8000 ped. alt., leg. Y. Yamamoto, Oct. 1928-typus; ibidem, leg. S. Sasaki et H. Kannan, Oct. 1928.

Nota. Arcte affinis *Crawfurdae luteo-viridi*, sed follo minore et apice mucronato-rotundato, corollā purpureā, statim differt.

(3) *Viburnum Yamadai* Bartlett et Yamamoto, sp. nov.

Frutex. Rami erecti; corticibus fusco-badiescentibus, in exsiccato rugosis, cum lenticellis minutis fulmineis notatis, glabris. Ramuli graciles, flavescens v. plus minus ferruginei, pilis stellatis fulmineis dispersi, hornotini densiores. Folia opposita petiolata, orbicularia v. oblonga rarissime ovata, minora 1 cm in diametro, majora 2.5 cm longa 2 cm lata, apice rotundata v. paullo late acuta, basi rotundata rarissime cuneata, margine (basi excepto) irregulariter late dentato-serrata, pagine supra (nervo excepto) glabriuscula, subtus pilis stellatis laxè dispersa, ad basin omni nervi pilis sericeis composita; costā supra sulcatā stellato-pilosā, subtus elevatā; nervis lateralibus primariis utroque latere plerumque 3 raro 4 et costā angulo circ. 30° paralleliter divergentis, supra nervulis sulcatis, subtus valde reticulatis; petiolo 4-6 mm longo, pilis ferrugineis stellatis dense disperso, supra sulcato subtus elevato. Inflor-

escentia umbellata, ad apicem ramuli pedunculata; pedunculo 5 mm longo paullo dichotome divericato; pedicellis ubique pilis stellatis dense dispersis. Fructus oblongi v. globosi, 10 mm longi 7 mm lati, compressi carnosi rubentes, apice limbo calycis coronati, 1-loculares, 1-spermi; semen oblongum v. ovatum, arcte compressum, 6 mm longum 5 mm latum 2.5 mm crassum; osseum rubidum, facie longitudinaliter 1-2-sulcatum, apice minute mucronatum.

Nom. Jap. Maruba-no-niitakagamazumi (nov.)

Hab. In monte Niitaka, leg. H. H. Bartlett, Sept. 1926, (No. 6323 et 6330-(ramus fructifer).

Nota. Affinis *Viburno eroso* Thunb. var. *laevi* Frach. et Savat. et *V. morrisonensi* Hay., e duobus folio minore orbiculari apice rotundato, nervis lateralibus 3-4, statim differt.

(4) **Patrinia glabrifolia** Yamamoto et Sasaki, sp. nov.

Herbae perennes. Caulis basi frutescens glabratusque erectus, nodi juxta pubescens, ad nodos ramosus, internodiis elongatis; ramis opposis gracilibus, ad nodos dense pubescentibus, intus longitudinaliter cum pilis minutis fulmineis dense dispersis, extus longitudinaliter glabratis. Folia basalia opposita, majora oblanceolata petiolis 25 cm longa 6 cm lata, apice acuminata basi attenata, margine dentata, utroque pagine glabrata; petiolo glabrato in sectione compresso, inferne paulo dilatato, 5 cm longo; folia superiora, opposita lineari-lanceolata v. linearia, 6-9 cm longa 0.5-1.5 cm lata, apice acuminata basi attenuato-decurrentia, utroque pagine glabrata, margine laxe dentata v. integra, petiolo circ. 1 cm longo inferne paulo dilatato. Cymae corymboso-paniculatae, ubique dense pubescentes, ad apicem pedunculorum dichotome divericatae, pedicello brevissimo. Bractee membranaceae et subhyalinae, distincte anastomoso-reticulatae, ad apicem pedicellorum