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A Contribution to the Knowledge of the Flora of Japan.

(Continued from p. 14.)

By

Tomitarô Makino, Sc. D.

PSEUDOSASA MAKINO in Journ. Jap. Bot. II, 4 (1920), p. 15.

Rhizome sympodial. Culms ascending below. Leaves evergreen, large; shoulder-fimbriae none, or very rarely scarcely present and filiform (not spinuliform) and soon deciduous. Panicles many on the culm throughout, not large, shortly or rather long peduncled. Spikelets several- or subnumerous-flowered, purpurascens but often cinerascens when dry. Stamens 6-4.

Pseudosasa kurilensis (RUPR.) MAKINO, nov. nom.

Arundinaria kurilensis RUPR. in Bull. Phys.-Math. VIII, p. 121.

Arundinaria kurilensis, *α. genuina* FR. SCHM. Reis. im Amurl. u. Ins. Sachal. (1868), p. 198.

Bambusa kurilensis MIYABE, Fl. Kuril. p. 271.

Sasa kurilensis MAKINO ET SHIBATA in Bot. Mag., Tokyo, XV. (1901), p. 27; MAKINO in Journ. Jap. Bot. V. 2 (1928), p. 3.

Nom. Jap. *Nemagari-dake*, *Chishima-zasa*.

Hab. JAPAN, widely distributed.

var. nebulosa (MAKINO) MAKINO, nov. comb.

Arundinaria paniculata f. nebulosa MAKINO in Bot. Mag., Tokyo, XIV. (1900), p. 52.

Sasa paniculata f. nebulosa MAKINO ET SHIBATA, l. c. XV. (1901), p. 25.

Nom. Jap. *Shakotan-chiku*.

Hab. JAPAN.

Pseudosasa japonica (SIEB. ET ZUCC.) MAKINO in Journ. Jap. Bot. II. 4 (1920), p. 15.

Arundinaria japonica SIEB. ET ZUCC. ex STEUD. Syn. Gram. (1855), p. 334.
Nom. Jap. *Ya-dake*.

Hab. JAPAN.

Pseudosasa Owatarii (MAKINO) MAKINO, l. c. p. 16.

Arundinaria Owatarii MAKINO in Bot. Mag., Tokyo, XXI. (1907), p. 16.
Nom. Jap. *Yakushima-dake*.

Hab. JAPAN.

Pseudosasa spiculosa (FR. SCHMIDT) MAKINO, l. c. p. 16.

Arundinaria kurilensis β . *spiculosa* FR. SCHM. Reis. im Amurl. u. Ins. Sachal. (1868), p. 198.

Nom. Jap. *Suzu-dake*.

Hab. JAPAN.

forma angustior MAKINO.

Sasa spiculosa forma angustior MAKINO in Journ. Jap. Bot. V. 2 (1928), p. 9.

Nom. Jap. *Hosoba-suzudake*.

Hab. JAPAN.

Pseudosasa Hisauchii MAKINO.

Sasa Hisauchii MAKINO in Journ. Jap. Bot. III. 6 (1926), p. 24.

Nom. Jap. *Hime-suzudake*.

Hab. JAPAN.

Pseudosasa Uchidai MAKINO, nov. nom.

Sasa Uchidai MAKINO in Journ. Jap. Bot. V. 2 (1928), p. 4.

Nom. Jap. *Nagaba-nemagaridake*.

Hab. JAPAN.

? **Pseudosasa Togashiana** MAKINO.

Sasa Togashiana MAKINO in Journ. Jap. Bot. V. 2 (1928), p. 5.

Nom. Jap. *Nambu-suzu*.

Hab. JAPAN.

Sasa matsushimensis MAKINO, nov. sp.

An evergreen small bamboo. Culm erect or ascending, attaining about 1½ m. in height, loosely ramose in age, slender, terete, fistulose, smooth, glabrous, thick-walled, green or purpurascens, 3-5 mm. across; node prominent, glabrous; internodes long, white-bloomy under the nodes; branches one to a node, erect-patent, often flexuous, clothing with old dead sheaths. Leaves 3-7 towards the top of branchlets and palmately arranged, shortly petiolate, oblong-lanceolate, acuminate with a sharp tip at the apex, rounded or subcordate-rounded but acute or obtuse in the apical ones at the base, minutely spinulose on margins, chartaceous or membranaceo-chartaceous, green and glabrous above, paler and very scantily pubescent with white hairs, 10-23 cm. long including the petiole, 15-45 mm. wide; midrib slender, prominent beneath, greenish; veins 6-8 on each side; veinlets finely tessellate with short-rectangular, square and transverse-rectangular areolae; petiole 3-8 mm. long, sub-

cuneiform, compressed, thick, glabrous but densely minute-puberulous at the base in front, glabrous and with a rib dorsally; ligule very short, truncate, coriaceous, densely minute-puberulous dorsally, ciliated on margins, 1-1½ mm. long; sheath closely encircled, coriaceous, glabrous, viridescens, numerous striate, subcarinate above dorsally, ciliated or not so on margin; shoulder-fimbriae spinuliform, deciduous. Spike in the axil of old sheath on branchlets, shortly peduncled, vaginate below, few-spiculiferous; vaginae 3, convolute, greenish, boat-shaped; microphyll small, subulate. Spicules erect, several-subnumerous-flowered; rachilla flexuous, puberulous with adpressed sericeous hairs. Flowers 9-11 mm. long; flowering-glume ovate, acuminate, greenish but purpleo-scarious on margin; palea slightly shorter than the flowering-glume. Stamens 6. Ovary with a 3-branched (branches plumose) style.

Nom. Jap. *Matsushima-zasa* (nov. nom.).

Hab. Prov. RIKUZEN: Matsushima (SHIGETARÔ UCHIDA! March 1928.).

Elatine triandra SCHK. var. **orientalis** (MAKINO) MAKINO, nov. comb.

Elatine triandra FRANCH. ET SAV. Enum. Pl. Jap. I. p. 54, non SCHK.

Elatine orientalis MAKINO in Bot. Mag., Tokyo., XII. (1898), p. 196, et XIII. (1899), p. 1.

Nom. Jap. *Mizo-hakobe* (YOSHIO TANAKA).

Hab. JAPAN, widely distributed.

Calanthe discolor LINDL. var. **Tyoh-Harai** (MAKINO) MAKINO, nov. comb.

Calanthe Tyoh-Harai MAKINO in Journ. Jap. Bot. III. 9 (1926), p. 35.

Nom. Jap. *Akakura-ebine*.

Hab. Prov. ECHIGO: Akakura.

Illicium religiosum SIEB. ET ZUCC. var. **rosea** (MAKINO) MAKINO, nov. comb.

Illicium anisatum var. *rosea* MAKINO in Journ. Jap. Bot. III. 4 (1926), p. 15.

Nom. Jap. *Usubeni-shikimi*.

Hab. JAPAN, southern.

Caltha pygmaea (MAKINO) MAKINO, nov. comb.

Caltha palustris var. *pygmaea* MAKINO in Bot. Mag., Tokyo, XVI. (1902), p. 146, et in INUMA'S Somoku-Dzusesetsu, ed. 3, II. 10 (1910), p. 60, tab. 47.

Nom. Jap. *Koba-no-ryûkinkwa*.

Hab. JAPAN, cultivated.

Iris minutoaurea MAKINO, nov. nom.

Iris minuta FRANCH. ET SAV. Enum. Pl. Jap. II. (1879), pp. 42, 521; MAKIM. in M  l. Biol. X. p. 715; Baker, Handb. Irid p. 2; MAKINO in Bot. Mag., Tokyo, XVI. (1902), p. 148; Bot. Mag. t. 8293 (1910), non L. FIL.

Nom. Jap. *Kin-kakitsubata*.

Hab. JAPAN, cultivated.

Plectranthus inflexus VAHL forma **subglabrus** MAKINO, nov. f.

Stem and leaves nearly glabrous.

Nom. Jap. *Me-yamahakka* (nov. nom.).*Hab.* Prov. RIKUZEN: Sendai, cultivated (EIKICHI IISHIBA! Oct. 15, 1923.).**Vicia Faba** L. forma **ascendens** MAKINO.

Legumes erect or ascendent, not deflexed.

Nom. Jap. *Sora-mame*.*Hab.* JAPAN, widely cultivated.**Bidens albiflora** (MAXIM.) MAKINO, nov. comb.*Bidens pilosa* var. *albiflora* MAXIM. (in litt.) Catal. Herb. Coll. Sc. Imp. Univ., Tokyo (1886), Correct. p. 4.Stem and leaves nearly as in *Bidens pilosa* L., but the ray-flowers are white and more conspicuous.Nom. Jap. *Shiro-no-sendangusa*, *Shirobana-no-sendangusa*.*Hab.* JAPAN, naturalizd.**Dryopteris pseudo-africana** MAKINO ET OGATA in Journ. Jap. Bot. IV. 5 (1927), p. 140.*Dryopteris izuensis* KODAMA in MATSUM. Ic. Pl. Koisikav. II. 1 (1914), p. 7, tab. 88, partim.Nom. Jap. *Mizoshida-modoki*.*Hab.* Prov. IDZU: Dyôren-no-taki.**Dryopteris africana** C. CHR.; MAKINO ET OGATA in Journ. Jap. Bot. IV. 5 (1927), p. 140.*Dryopteris izuensis* KODAMA in MATSUM. Ic. Pl. Koisikav. II. 1 (1914), p. 7, tab. 88, partim.Nom. Jap. *Mizo-shida*.*Hab.* JAPAN, common.**Mitrastemon Yamamotoi** MAKINO var. **Kawa-Sasakii** (HAYATA) MAKINO, nov. comb.*Mitrastemon Kawa-Sasakii* HAYATA in Bot. Mag., Tokyo, XXVI. (1912), p. 112, in ENGL. Bot. Jahrb. LI. 1 (1913), p. 165, et Ic. Pl. Formos. III. 156 (1913); YAMAMOTO, Suppl. Ic. Pl. Formos. II. 2 (1926), p. 10, fig. 6.*Mitrastemon Yamamotoi* forma *Kawa-Sasakii* MAKINO in Bot. Mag., Tokyo, XXVIII. (1914), p. 20; MAKINO ET NEMOTO, Fl. Jap. (1925), p. 882.Nom. Jap. *Taiwan-yakkosô*.*Hab.* FORMOSA.var. **Kanehirai** (YAMAMOTO) MAKINO, nov. comb.*Mitrastemon Kanehirai* YAMAMOTO in Bot. Mag., Tokyo, XXXIX. (1925), p. 142, fig. 1-15, et Suppl. Ic. Pl. Formos. II. (1926), p. 10, fig. 7-8.Nom. Jap. *Hishigata-yakkosô*.*Hab.* FORMOSA, on roots of *Castanopsis Junghuhnii* MIQ. and *Lithocarpus uraianae* HAYATA (after YOSHIMATSU YAMAMOTO).

(To be continued.)