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A Contribution to the Knowledge of the Flora of Nippon.

(Continued from p. 28.)

By **Tomitarô Makino**, Sc. D.

Monochasma japonicum (MAXIM.) MAKINO. nov. comb.

Monochasma Shearei var. *japonicum* MAXIM. ex FRANCH. ET SAV. Enum. Pl. Jap. II. (1879), p. 458; MAXIM. in Mém. Acad. St. Pétersb. sér. 7, XXIX. (1881), p. 37, tab. 2, fig. 1-4, 8-9, et 11-18.

Nom. Jap. *Kagaribi-sô*, *Kuchinashi-gusa*.

Hab. NIPPON.

This species is apparently distinguishable from Chinese *M. Shearei* (S MOORE) MAXIM.

Serapias Sayekiana MAKINO in Journ. Jap. Bot. VI. n. 4 (1929), p. 8.

Epipactis Sayekiana MAKINO, l. c. II. n. 1 (1918), p. 22.

A perennial Orchid, 20-85 cm. high; rhizome short, oblique, curved upwards, ascending; roots numerous, densely tufted, stout-filiform, long, terete, pubescent, dull yellowish, about 2 mm. across, with a slight odour. Stem solitary or 2-6 to a stock, erect, long and slender, terete, foliiferous throughout, puberulous with pale short hairs, purplish or purplish-greenish, or sometimes greenish, usually purple or sometimes white at the base, $2\frac{1}{2}$ - $6\frac{1}{2}$ mm. across; internodes longer at the base, attaining nearly 10 cm. long. Leaves alternate, thin in texture, green not shining and short-puberulent on the nerves above, paler and thinly short-puberulent on the nerves beneath, ciliated on margins, the middle ones oval elliptical or oblong, about $5\frac{1}{2}$ -9 cm. long, $2\frac{1}{2}$ - $5\frac{1}{2}$ cm. wide, shortly acute to acuminate at the apex, rounded and usually very shortly sheathing at the base, about 10-11-nerved in the broad ones, but 6-7-nerved in the narrower ones, the superior ones narrower, ovato-lanceolate to lanceolate, but linear-lanceolate in the uppermost ones, sessile and non-sheathing at the base, the lower ones short and orbiculate, distinctly sheathing at the base, the

lowest one small and scale-like with a long sheath at the base; midrib and veins narrow, prominent beneath; veinlets delicate, sub-close; sheath attaining about 25 mm. long, prominently many-nerved, usually purplish or sometimes pale-green. Raceme simple, erect, but curved down when young, rather laxly or subdensely several-numerous-flowered, usually secundly disposed, bracteate, 4-21 cm. long; rachis straight, slender, pulverulent-puberulous with pale hairs; bracts sessile, narrowly lanceolate, acuminate at the apex, thin, green, 3-10-nerved, ciliated on margins, 7-32 mm. long, the lower ones often exceeding the flower in length. Flowers about $1\frac{1}{2}$ -nearly 2 cm in the cross-diameter, turned laterally, nearly scentless. Sepals 3, erect-patent or patent, shallowly boat-shaped, acuminate with a sharp point at the apex, rounded at the base, carinate dorsally, entire, glabrous, herbaceous, light green and more or less shaded with purple, or entirely light green; dorsal one elliptical-lanceolate, about 10-11 mm. long, $3\frac{1}{2}$ -4 mm. wide, 5-nerved; lateral 2 slightly oblique in form, ovato-lanceolate, scarcely longer than the dorsal one, $10\frac{1}{2}$ - $11\frac{1}{2}$ mm. long, 4- $4\frac{1}{2}$ mm. wide, 6-nerved (3 in the lower side of the midrib and 2 in the upper side), with the midrib which is nearer towards the upper margin than the lower. Petals 2, erect-patent, slightly shorter than the sepals, ovate or broadly ovate, shortly acuminate towards the apex, rounded at the base, entire, thin, subscarious towards the entire margin, glabrous, greenish-pale, often shaded with purple, 8-9 mm. long, 4-6 mm. wide; midrib prominent half below dorsally. Labellum shorter than the perianth, about 8-9 mm. long, sessile, horizontal; the lower half saccate and oval, pale and shaded with purple, or greenish-pale, thin and entire on margin, 4- $4\frac{1}{2}$ mm. long, about $3\frac{1}{2}$ mm. wide, about 3 mm. in the depth, glabrous, rounded and thickish dorsally, filled with honey-juice within; limb recurved, about 4 mm. long and broad, subdeltoid-ovate, acute or very shortly acuminate at the apex, rounded at the base, entire-margined, pale, or pale and shaded with purple, rather thin, glabrous, 2-gibbose and each gibbosity with the emarginate end towards the base, longitudinally elevated in the midst, 1-sulcate below with a purplish or greenish ridge in the central portion. Column short, erect, pale, about 5 mm. long, enlarged at the top; clinandrium inclined behind, broad, concave, with a low ridge in centre longitudinally, the dorsal margin with a depressedly acutish angle in which the anther is attached, the front margin with a shortly projecting rostellum. Anther ovate, $2\frac{1}{2}$ -3 mm. long, 2-celled, thick above, rounded and smooth dorsally, obtuse at the apex, scarcely cordate at the base, yellowish or yellowish-greenish. Pollinia 2, about $2\frac{1}{2}$ mm. long, yellowish-pale, powdery, each obovate; caudicle very short. Stigma transverse-elliptical, concave, about $2\frac{1}{2}$ - $2\frac{3}{4}$ mm. in the cross-diameter. Ovary narrowly obovoid, shortly pedicellate, 3-ridged and 3-angled, thinly puberulent, light green, about 6-8 mm. long, 1-locular, thickish-walled, with 3 parietal placentas, filled up with minute numerous white ovules; pedicel 4-6 mm. long, arcuate, thinly pulverulent-puberulous, mainly purplish or sometimes greenish. Flowers July.

Nom. Nipp. *Hama-kakiran* (T. MAKINO).

Hab. Prov. KADZUSA: Daitô (T. MAKINO!); Prov. SAGAMI: Kugenuma

(T. MAKINO!).

This species is found growing at the sandy place in the shade of the pine trees near sea, and it has a resemblance to *Serapias papillosa* (FRANCH. ET SAV.) MAKINO in Journ. Jap. Bot. VI. n. 4 (1929), p. 8 (= *Epipactis papillosa* FRANCH. ET SAV. Enum. Pl. Jap. II. 1879, p. 519; *Limodorum papillosum* O. KUNTZE, Rev. Gen. 1891, p. 671; *Helleborine papillosa* DRUCE in Bull. Torr. Bot. Club, XXXVI. 1909, p. 547; *Epipactis latifolia* var. *papillosa* MAXIM.). I have named in memory of the late TATSUSHIRÔ SAYEKI, a man of interest for plants.

***Lychnis ugoensis* MAKINO, nov. sp.**

Nom. Nipp. *Hiroha-shiranegampi*.

Hab. Prov. UGO: Mt. Taiheizan (T. MAKINO!, S. MURAMATSU!).

For the descriptions refer the next number.

***Ranunculus polycephalus* MAKINO, nov. nom.**

Ranunculus Vernyi FRANCH. ET SAV. Enum. Pl. Jap. I. (1875), p. 8, et II. (1879), p. 266, pro parte!

Ranunculus ternatus β . *hirsutus* LÉVEILLÉ in Bull. Akad. Int. Geogr. Bot. p. (1900).

Ranunculus japonicus forma *hirsutus* MAKINO in INUMA, Sômoku-Dzusesetsu, ed. 3, II. (1910), p. 802; MAKINO ET NEMOTO, Fl. Jap. (1925), p. 980.

Ranunculus ternatus DC. Syst. I. (1818), p. 242, non THUNB.

Ranunculus japonicus LANGSD. ex FISCH. in DC. Prodr. I. (1824), p. 38; MAXIM. Ad Fl. As. Orient. in Bull. Soc. Nat. Mosc. (1879), p. 3, non THUNB.

Ranunculus pensylvanicus var. *japonicus* MAXIM. in litt.

Ranunculus Vernyi var. *japonicus* NAKAI in Bot. Mag., Tokyo, XLII. (1928), p. 20.

Nom. Nipp. *Ke-kitsunenobotan* (T. MAKINO, nov. nom.), *Kitsune-no-botan* (Imp. Univ. Tokyo.).

Hab. NIPPON.

***Ranunculus glaber* (LÉVEILLÉ) MAKINO, nov. comb.**

Ranunculus ternatus α . *glaber* LÉVEILLÉ in Bull. Acad. Int. Geogr. Bot. p. (1800).

Ranunculus japonicus forma *glaber* MAKINO in INUMA, Sômoku-Dzusesetsu, ed. 3, II. (1910), p. 802; MAKINO ET NEMOTO, Fl. Jap. (1925), p. 980.

Ranunculus Vernyi var. *glaber* NAKAI in Bot. Mag., Tokyo, XLII. (1928), p. 19.

Ranunculus Vernyi FRANCH. ET SAV. Enum. Pl. Jap. I. (1875), p. 8, et II. (1879), p. 266, pro parte!

Ranunculus Langsdorffii SPRENG. Syst. Veg. II. (1825), p. 652, non DC.

Stem ramose, often patently pubescent at the base, but glabrous or thinly appressed-pubescent above. Leaves 3-nate. Flowers about 10–12 mm. across, appearing successively from early summer to late autumn. Achene evidently hamate downwards in the beak.

Nom. Nipp. *Kitsune-no-botan*!, *Me-kitsunenobotan*, *Teriha-kitsunenobotan*.

Hab. NIPPON.

forma prostratus (NAKAI) MAKINO, nov. comb.

Ranunculus Vernyi var. *prostratus* NAKAI in Bot. Mag., Tokyo, XLII. (1928), p. 21.

Nom. Nipp. *Hai-kitsunenobotan*.

Hab. NIPPON.

Prunus salicina LINDL. var. **subsponsanea** MAKINO, nov. var.

A tree or small tree, numerously branched. Drupe small, globose, smooth, glabrous, about 2 cm. or less across, yellowish when ripen.

Nom. Nipp. *No-sumomo* (n.).

Hab. Prov. MUTSU, wild, or half-spontaneous (T. MAKINO!).

Prunus Persica BATSCH. var. **subsponsanea** MAKINO, nov. var.

Flower smaller, purplish-rose. Drupe small, short-ellipsoid or ellipsoid, about 2½ cm. long, 1½ cm. across, puberulous; pulp thin and hard.

Nom. Nipp. *No-momo* (n.).

Hab. NIPPON, wild, uncommon.

Prunus Sieboldii WITTMACK.

α. **Sieboldii** MAKINO.

Prunus Sieboldii WITTMACK in Gartenfl. LI. p. 272 (1902).

Cerasus Sieboldii VERLOT in Rev. Hort. (1866), p. 279; CARRIÈRE, l. c. (1866), p. 371, tab. et (1875), p. 400.

Nom. Nipp. *Naden*, *Chawan-zakura*.

Hab. NIPPON, cultivated.

var. β. **sachalinensis** (FR. SCHMIDT) MAKINO, nov. comb.

Prunus Pseudo-Cerasus var. *sachalinensis* FR. SCHMIDT, Reis. Amur. Sachal. in Mém. Acad. Sc. St. Pétersb. sér. 7, XII. n. 2, p. 124 (1868).

Prunus serrulata var. *sachalinensis* MAKINO.

Prunus sachalinensis KOIDZUM.

Prunus donarium subsp. *sachalinensis* KOIDZUM.

Prunus pseudo-Cerasus var. *borealis* MAKINO.

Prunus serrulata var. *borealis* MAKINO.

Prunus Sargentii REHDER.

Nom. Nipp. *Ô-yamazakura*, *Ezo-yamazakura*, *Beni-yamazakura*.

Hab. NIPPON, wild.

As the Nipponese name *Ô-yamazakura* is first. On my opinion I do not doubt that this *sachalinensis* is the wild parent of *Sieboldii*, though it has not the pubescent leaves and pedicels.

Sasa oseana MAKINO, nov. sp.

Nom. Nipp. *Ose-zasa* (n.).

Hab. Prov. IWASHIRO: Ose (T. MAKINO!).

For the descriptions refer the next number.

(To be continued.)