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A Contribution to the Knowledge of the Flora of Japan.

(Continued from p. 28.)

By

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Rumex (*Lapathum*) **nikkoensis** MAKINO, nov. sp.

A robust perennial, attaining about 2 m. in height, glabrous. Rhizome hypogaeous, thick, perpendicular, elongate, terete, solid, attaining about 20 cm. or more long, 9 cm. across, with close elevated cross lines, yellowish; cortex thick, yellowish but the colour deeper outwards; vascular cylinder with radiating medullary rays, yellowish but yellow internally; neck with many fibrous roots below and old fibres of the basal portion of petioles above; main roots loosely ramose, stout, thick, elongate, terete, penetrated downwards, attaining about 40 cm. or more long, 9 cm. across, with thick cortex, pale-yellowish. Radical leaves long-petiolate, large, lanceolate-oblong, obtuse at the apex, cordate at the base, entire and loosely crispate on margins, attaining about 47 cm. long, 20 cm. wide, thickly membranaceous, flaccid, green above, subglaucously light green beneath; midrib stout, much prominent beneath, subangulato-striate, greenish; veins numerous, spreading, prominent beneath, connected with others at the end; veinlets prominent beneath, loosely reticulated; petiole terete or semiterete, striate, shallowly canaliculate or flat in front, attaining 30 cm. or more long; stipules membranaceous, quickly disintegrating; young leaves tufted, few to several, with rose petiole; cauline leaves shorter and narrower, gradually smaller towards the top, their petioles gradually shorter upwards, dilated at the base. Stem erect, more or less flexuous, terete, many striate with prominent ridges, fistulose, thick-walled, light green. Panicle large and long, erect, with many ascending flexuous striated branches and a flexuous rachis, subdensely numerous-flowered mixed with narrow leafy bracts, which situated at the nodes of the main rachis and the lower portion of branches. Verticillasters several-subnumerous-flowered. Flowers small, pedicellate, cernuous,

green; pedicel about 4 mm. long. Sepal 6, 2-serial, obtuse at the apex, entire, concave; outer 3 ovato-oblong, slightly scarious on margin, obtusely carinate dorsally, about $1\frac{1}{2}$ mm. long; inner 3 slightly longer than the outer, oblong, scarious on margin, the midrib thicker towards the base dorsally, about $2\frac{1}{2}$ mm. long. Stamens 6; filament filiform, white; anther broadly linear, pale-yellowish. Fruiting-verticillaters slightly remote each other, but approximate above. Fruit pedicellate, turned downwards; pedicel capillaceous, cernuous, greenish or purpurascens, arcuate, enlarged at the top, articulated under the middle, 5-12 mm. long; wings (enlarged inner 3 fruiting sepals) deltoid-cordate, 5-7 mm. long, 4-7 mm. broad, obtuse at the apex, usually irregularly shallow-denticulate below on margins, reticulated-veined, thin in texture, herbaceous, light green and often purpurascens in the sun when fresh; dorsal callus prominent with a rounded back, angustato-ovate, rounded at the base, pointed at the apex, smooth, at first greenish, afterwards pale and often purpurascens in the sun, $3-3\frac{1}{2}$ mm. long; outer fruiting 3 sepals reflexo-spreading, narrowly oblong, concave, obtuse-tipped, entire, green, herbaceous, about $2\frac{1}{2}$ mm. long. Achene entirely enclosed within the persistent fruiting sepals, broadly ovate, acutely obtuse at the base, acute at the apex, triquetrous with acute angles, smooth, shining, badius, attaining 3 mm. long.

Nom. Jap. *Nikkô-gishigishi* (nov. nom.).

Hab. Prov. SHIMOTSUKE: Yumoto in Nikkô (T. MAKINO!; H. SEKIMOTO!).

This species comes near to *Rumex japonicus* MEISN., which found very common in fields of Japan.

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

Branches and branchlets terete, glabrous. Leaves deciduous, petiolate, lanceolate, acuminate, serrulate. Flower semi-double, very shortly pedicellate (pedicel about 3 mm. long, glabrous, with deciduous perulae at the base), red, about $3\frac{1}{2}$ cm. across. Calyx purple; tube shortly obconical; lobes 5, rounded-ovate, obtuse, tomentoso-puberulous. Petals numerous, spreading, rounded or oval, shortly unguiculate. Stamens many, slightly shorter than petals; filament filiform, white; anther minute, purplish, with yellow pollen. Pistils 2-4; ovaries pubescent; styles hardly higher than the stamens, filiform, pubescent towards the base, with a dilated stigma. Drupes often erectpatently geminate on a receptacle, mixed with solitary or sometimes triple ones, small, obovoid, $3\frac{1}{2}$ -4 cm. long, $2\frac{1}{2}$ - $3\frac{1}{2}$ cm. across, rounded at the top, finely pubescent all over; pedicel stout, straight, 6-9 mm. long.

Nom. Jap. *Zaron-momo* [座論桃] (nom. nov.).

Hab. Prov. RIKUCHŪ: Morioka, in garden (T. MAKINO!; K. TOGASHI!).

***Hemerocallis fulva* L. var. *Kwansoo* REGEL, forma *variegata* MAKINO.**

Leaves white-striped.

Nom. Jap. *Suzzi-kwanzô*.

Hab. JAPAN, in gardens.

Bletilla striata (THUNB.) REICHB. F. var. **albomarginata** MAKINO, nov. var.

Leaves white-marginate.

Nom. Jap. *Fukurin-shiran* (nov. nom.).

Hab. JAPAN, in gardens.

var. **Gebina** (LINDL.) REICHB. F.

Nom. Jap. *Shirobana-shiran*.

Hab. JAPAN, cultivated or rarely in wild.

Chrysanthemum Burbankii MAKINO, nov. nom.

Chrysanthemum maximum var. *Shasta Daisy* Hort.

Nom. Jap. *Sahsta-giku* (nov. nom.).

Hab. JAPAN, cultivated from N. America.

Carduus crispus L. var. **albus** MAKINO, nov. var.

Flowers white.

Nom. Jap. *Shirobana-hirezami* (nov. nom.).

Hab. JAPAN.

Cirsium pendulum FISCH. var. **leucanthum** MAKINO, nov. nom.

Flowers white.

Nom. Jap. *Shirobana-takaazami* (nom. nov.).

Hab. Prov. MUSASHI: Shimura (T. MAKINO!).

Vagnera japonica (A. GRAY) MAKINO, nov. comb.

Smilacina japonica A. GRAY, Pl. Jap. p. 321 et Bot. Jap. p. 414.

Nom. Jap. *Yukizasa*.

Hab. JAPAN.

Vagnera davurica (TURCZ) MAKINO, nov. comb.

Smilacina davurica TURCZ. Cat. Baic. n. 1129.

Nom. Jap. *Karafuto-yukizasa*.

Hab. KARAFUTO.

Vagnera trifolia (L.) MORONG in Mem. Torrey Bot. Club. V. p. 114.

Convallaria trifolia L. Sp. Pl. p. 316.

Smilacina trifolia DESF. Ann. IX. p. 52.

Nom. Jap. *Tonakai-sô*, *Mitsuba-zasa*.

Hab. JAPAN.

Vagnera bicolor (NAKAI) MAKINO, nov. comb.

Smilacina bicolor NAKAI.

Nom. Jap. *Ebicha-zasa*.

Hab. JAPAN.

Vagnera yezoensis (FRANCH. ET SAV.) MAKINO, nov. comb.

Smilacina yezoensis FRANCH. ET SAV. Enum. Pl. Jap. II. p. 523.

Smilacina dahurica FRANCH. ET SAV. l. c. p. 53, non TURCZ.

Nom. Jap. *Hiroha-yukizasa*.

Hab. JAPAN.

Asplenium (Thamnopteris) **antiquum** MAKINO, nov. sp.

This species is closely allied to *A. Nidus* L., but scales larger, with longee areolae; frond large, gradually long-attenuatedly narrow-cuneate towards the basal short stipe, which is very angustately subulate on both sides; midrib prominent and the greater portion light green but black towards the base above, roundedly prominent not keeled and the greater portion black except the upper light green portion; veins about 1-3 mm. apart; sori much laxer, about 1½-3 mm. apart each other, stouter, extending from the sides of midrib near towards the margin of frond.

Nom. Jap. *Mitsuna-gashiwa* (ancient name), *Ô-taniwatari*.

Hab. JAPAN, southern.

Tovara filiformis (THUNB.) NAKAI, var. **neo-filiformis** NAKAI MAKINO, nov. comb.

Polygonum neo-filiforme NAKAI in Bot. Mag., Tokyo, XXXVI. (1914), p. 117.

Nom. Jap. *Shin-midzuhiki*.

Hab. JAPAN, shady places.

Iris sanguinea DONN. (1811).

α. **typica**.

Iris orientalis THUNB. in Trans. Linn. Soc. II. p. 328 (1794), non MILLER.

Iris sibirica var. *orientalis* MAXIM. in Mém. Biol. X. p. 709.

Leaves fresh green. Flower violaceo-caeruleous, sometimes caeruleo-violaceous.

Nom. Jap. *Ayame*.

Hab. JAPAN, wild and cultivated.

forma stellata (MAKINO) MAKINO, nov. comb.

Iris sibirica var. *orientalis* **forma stellata** MAKINO in Bot. Mag., Tokyo, XXV. p. 228 (1911).

forma albiflora (MAKINO) MAKINO, nov. comb.

Iris sibirica var. *typica* **forma albiflora** MAKINO in Bot. Mag., Tokyo, XVIII. p. 65 (1904).

Sepals spathulato-obovate, gradually attenuated and cuneate towards the base (*a. cuneata* MAKINO.), or rotundate (*b. rotundata* MAKINO.).

Nom. Jap. *Shiro-ayame*.

Hab. JAPAN, wild and cultivated.

β. **violacea** MAKINO, nov. var.

Iris orientalis DYKES, Gen. Iris, p. 23, pl. I. b. (1913), non THUNB. excl. syn.

Leaves more slender, firmer, deep-green, subglaucous. Scape taller. Spathe reddish-purple towards the margins. Flower deep violet, without traces of caeruleous colour. Sepals reflexed. Petals longer. Capsule more or less conspicuously reticulatedveined when fresh.

Nom. Jap. *Kamayama-shōbu*.

Hab. JAPAN, only cultivated; this is probably the native of Corea.

(To be continued.)