Notulæ ad plantas asiaticas orientales.

(Continued from p. 52).

Auctore

J. Matsumura.

Arabis Thaliana, L. DC. Prodr. I. p. 144 ; Sowerby's English Botany vol. I. t. CXV ; Fr. et Sav. Enum. Pl. Jap. II. p. 280. A. pubicalix, Miq. Prol. p. 4 ; Fr. et Sav. Enum. Pl. Jap. I. p. 34 ; Inuma, Soomoku-zusetsu vol. XII. t. 12. sub. nomine Jap. Shiro-inu-nadzuna.

Hab. in Japonia : prov. Settsu, prope Koobe (T. Makino), prov. Izumi, prope Sakai (S. Matsuda). Mense Aprili fl. et fr.

Arabis petraea, Lam. var. kamtschatica, Regel. in Reise. in den Süd. Ost-Sibirien p. 167, t. v. fig. 5, 6, 7 ; A. kamtschatica, Fisch. Ledeb. Fl. Ross. I. p. 121.

Hab. in insula Yezo : ad Sapporo legit Dr. Miyabe anno 1880, mense Junio fl.

Arabis pendula, L. DC. Prodr. I. p. 147 ; Ledeb. Fl. Ross. I. p. 122 ; Regel. l. c. 169 ; Miq. Prol. p. 4 ; Fr. et Sav. Enum. Pl. I. p. 34.

Hab. insula Yezo : prov. Kushiro ad Riruran legit Miyabe anno 1884 mense Augusto fl. fr. immat. ; prov. Ishikari, ad Sapporo legerunt Miyabe et Tokubuchi annis 1879–1890 mense Septembri fr. mat. ; in Japonia media : prov. Shinano, legit Takashima, (no. 39).

Arabis flagellosa, Miq. Prol. p. 4 ; Fr. et Sav. Enum. Pl. Jap. I. p. 33 ; Inuma in Soomoku-zusetsu vol. XII. t. 9.

Petala alba, 10 mm. longa. Siliquæ juvenles glabræ, 25 mm longæ, stylo 2 mm. longo terminatæ.

Hab. insula Shikoku : prov. Tosa, ad pagum Ochi legit Makino ; ad pagum Nanokawa legit Watanabe anno 1891, mense Aprili fl. et fr. immat.

var. **lasiocarpa**, Matsumura.

Herba dense pilis trifurcatis vestita. Sepala elliptica obtusiuscula, gibbosa, sursum margine alba; petala alba, elliptico-oblonga, unguiculata, sepalis duplo longiora. Filamenta dilatata. Ovarium pilosulum, 4 mm. longum, lanceolato-lineare stylo longo terminatum, stigmate capitato; ovula uniseriata. Glandulæ latiusculæ. Siliquæ juveniles patentissimæ vel cernuæ pilosulæ.

Hab. in horto botanico Koishikawense culta.

Nasturtium montanum, Wall. Hook. f. et Anders. in Hook. f. Fl. Brit. Ind. I. p. 134; Benth. Fl. Hongk. p. 16; *N. montanum*, var. obtusulum, Miq. Prol. p. 3; Hemsl. in Journ. Linn. Soc. XXIII. p. 40; Henry in Trans. Asiat. Soc. Jap. XXIV. Suppl. p. 17.

Hab. in Japonia: prov. Iwashiro ad Aidzu legerunt Matsumura et Yatabe anno 1899; prov. Musashi ad Tokyo lege ipse anno 1880; prov. Sagami ad Hakone legit Yatabe anno 1883; prov. Izu ad Yugashima legit Okubo anno 1883; prov. Yamashiro, monte Kurama legit Okubo anno 1889; prov. Echigo; in Formosa prope Taipe et Tamsui legit Makino anno 1896.

Nasturtium indicum, DC. Syst. Veget. II. p. 199; Hook. f. et Thoms. in Journ. Linn. Soc. V. p. 138; Hook. f. et Anders. in Fl. Brit. Ind. I. p. 134; *N. madagascariense*, Wight Illust. t. 13; *N. montanum*, Miq. Prol. p. 3; Fr. et Sav. Enum. Pl. p. 32. ex parte; Hemsl. in Journ. Linn. Soc. XXIII. p. 40; Inuma in Soomokuzusetsu XII. t. 13.

Hab. in Japonia: prov. Shimotsuke ad Nikko lege ipse anno 1885; prov. Musashi ad Tokyo legit Makino anno 1894; insula Kiushiu ad Nagasaki legit Uchiyama anno 1897.

Nasturtium amphibium, R. Br. DC. Prodr. I. p. 138; Fr. Schm. Reis. in Amurl. p. 111; Cochlearia amphibia, Ledeb. Fl. Ross. I. p. 160. Siliquæ subglobose stylo elongato apiculatæ.

Hab. insula Yezo, loco non indicato legit Miyabe anno 1880.

Nasturtium austriacum, Crantz. Hemsl. Journ. Linn. Soc. XXIII. p. 39; Camelina austriaca, R. Br. DC. Prodr. I. p. 201; Bunge Enum. Pl. Chin. p. 6; Cochlearia austriaca, Ledeb. Fl. Ross. I. p. 160; *N. Camelineæ*, Fisch. et Mey. Fr. Schm. Reis. in Amurl. p. 33.

Hab. in China: prov. Che-kiang ad Hang-chau legit C. Owatari anno 1898, mense Junio fl. et fr. mat.

Nasturtium sikokianum, Fr. et Sav. Enum. Pl. Jap. II. p. 277,

Hav. in Formosa boreali: prope Pikoh legit Makino anno 1896, mense Novembri fr. mat.; insula Shikoku, prov. Tosa, prope Koochi legit Makino anno 1895, mense Novembri fr. mat.

Cochlearia Armoracia, L. DC. Prodr. I. p. 173; Ledeb. Fl. Ross. I. p. 159.

Specimen unicum tantum prostat, foliis superioribus sessilibus oblongo-lanceolatis serratis; sepalis ellipticis obtusis subhyalinis; petalis 7 mm longis, vix 5 mm. latis, late obovatis basi subattenuatis sepalis plus duplo longioribus; staminibus ovarium longitudine aequantibus, filamentis dilatatis antheras subaequantibus, antheris basi sagittatis oblongo-ellipticis subapiculatis; ovario obscure stipitato ellipsoideo, stylo brevissimo, stigmate capitato bilobulato; seminibus numerosis, 2-seriatis.

Hab. Japonia media: prov. Shinano detexit D. Takashima (no. 81), mense Junio floret.

Plantæ Japonenses novæ vel minus cognitæ.

(Continued from p. 58.)

By

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Aspidium (Polystichum) **tosaense** Makino Notes on Jap. Plants, XV. in Bot. Mag., Tokyo, VI. 1892, p. 46.

Caudex thick, erect, densely and closely imbricated with numerous basal remains of old stipes, rather densely rooting. Stipes caespitose, numerous, much shorter than the frond, 4-14 cm long, stramineous, hard, terete, narrowly canaliculate in front, densely clothed with scales towards the base, but loosely scaly above; scales ovate-lanceolate, acuminate, brown, firmly membranaceous, irregularly and minutely denticulate, largest one about 8 mm long, upper ones smaller in size, triangular, acuminate, thinly membranaceous, crosso-denticulate, rufous-brown, adpressed on the stipe. Frond