

CONTRIBUTION TO OUR KNOWLEDGE OF THE FLORA
OF THE SOUTHERN PART OF JAPAN. I

by

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1). **Kudoa**, (Gentianoideae-Gentianeae-Gentianinae) MASAMUNE genus nov.

Herba perennis; folia 4-verticillata. Flores solitariae terminales, sessiles, erecti, speciosi, caerulei. Calyx 6-8-partitus, segmentis plus minusve exalatis. Corolla tubuloso-campanulata; lobi 6-8, patentes, contorti. Stamina 6-8 corollae tubo inserta, filamentis hinc basi dilatatis. Antherae erectae longitudinaliter dehiscentes. Ovarium uniloculare. Stylus brevis, stigma bipartitum. Capsula unilocularis bivalvis. Semina plurima, minima, compressa.

Not. I have taken *Kudoa* for the generic name of this new genus in honour of Prof. Kudo, the first collector of this interesting plant.

Kudoa yakushimensis, (MAK.) MASAMUNE, comb. nov.

Syn. *Gentiana yakushimensis*, MAK. in Tokyo Bot. Mag. Vol. XXIII. p. 252. (1909).

Herba perennis glaberrima caespitosa, caule circa 20 cm. alto, internodiis subaequilongis foliis brevioribus. Folia crassa vix petiolata dense 4-verticillata margine integra, foliis inferioris squamosis, superioris lineari-lanceolatis 5-22 mm. longis circa 4 mm. latis. Flores terminales solitariae, sessiles, circa 4.5 cm. longi, caerulei. Calyx cum lobis 1.5 cm. longus, tubo obconico-campanulato, scarioso-membranaceo, lobis 6-8 lineari-oblongis obtusis inaequalibus. Corolla tuboso-campanulata circa 19 mm. longa, 6-8 lobata, lobis deltoideo-ovatis acutis circa 5 mm. longis, sinibus inter lobos acutis. Stamina 6-8, tubo corollae affixa inclusa, circa 16 mm. longa, filamentis subulatis ad medium adnatis, antheris linearibus circa 8 mm. longis. Ovarium stipitatum lineari-oblongum.

NOM. JAP. *Yakusima-rindo*.

HAB. Klusu: Insula Yakusima. Prov. Osumi (Leg. Y. Kudo 1909; Leg. G. MASAMUNE! Aug. 31, 1926).

Not. The species is limited to the island only.

2). *Drosera indica*, LINN. var. *albiflora*, MAK. in Jap. Journ. Bot. II. no. 6. p. 24 (1922).

Syn. *Drosera indica*, MATSUM. et HAY. Enum. Pl. Formos. p. 135 (1906); HAY. Ic. Pl. Formos. II. p. 13. (1912), et Gen. Ind. Fl. Formos. p. 28 (1916); SASAKI, List Pl. Formos. p. 204. (1928).

Nom. JAP. *Sirobana-nagaba-isimotoiso*.

Hab. Formosa: Tôen (Leg. G. MASAMUNE, no. 315! Dec. 9, 1929).

3). *Drosera rotundifolia*, LINN. Sp. Pl. ed. 1. p. 281. (1753); SMITH, Fl. Brit. IV. p. 646. (1804); DC. Fl. Franc. IV. p. 729. (1805); DC. Prodr. I. p. 318. (1843); HOOK. Brit. Fl. p. 148. (1830); MIQ. in Ann. Mus. Bot. Lugd. Bat. III. p. 204, et Prol. Fl. Jap. p. 368; Ledeb. Fl. Ross. I. p. 261. (1842); TRAUTV. et MEY. Fl. Ochot. Phaen. p. 19. (1856); MAXIM. Primit. Fl. Amur. p. 51. (1859); FR. et SAV. Enum. Pl. Jap. I. p. 162. (1875); BRITT. N. L. and BROWN, H. A. Ill. N. Un. St. II. P. 161 (1897); MAK. in Tokyo, Bot. Mag. XIV. p. (134) (1900); KOM. Fl. Mansh. II. p. 389 (1903); DIELS, in Engl. Pfl.-reich. IV. p. 93, f. 32. (1906); KOIDZUMI Pl. Sach. Nak. p. 73 (1910); MATSUM. Ind. Pl. Jap. II. 2. p. 164. (1912); TAKEDA, in Journ. Linn. Soc. London, Bot. XLII. p. 464. (1914); MIYABE et MIYAKE, Fl. Saghal. p. 169. (1915); KUDO, Fl. Paramushir p. 115. (1922), Contribution Fl. North. Saghal. p. 39. (1923), et Kita-karafuto Syokubutsu Tyosasyo, p. 150. (1924); MAK. and NEM. Fl. Jap. p. 880 (1925).

Nom. JAP. *Mosengoke*.

Hab. Kiusiu: Yakusima, Prov. Osumi. (Leg. G. MASAMUNE!); Kagosima, Prov. Satsuma (Leg. G. MASAMUNE!).

Nct. This species is very common in the northern part of Japan, as far as it is known to us and the southern limit of its range is the Island of Yakusima where it grows on the lofty Mt. Yaegadake at an altitude of 300-1900 m.

4). *Lespedeza Shimadai*, MASAMUNE, sp. nov.

Fruticulus procumbens ramosus diffusus longitudinaliter striato-pubescent. Folia alterna pinnatim trifoliolata, foliolis oblongis vel oblongo-ovatis, apice rotundatis

mucronatis, margine integris, supra glabris, subtus hirsuto-pubescentibus, foliolo terminali 9-18 mm. longo, 4-6 mm. lato, lateralibus terminali conformibus sed paulo minoribus, 8-16 mm. longis, 3.5-5 mm. latis, petiolis 3-10 mm. longis, petiolulis 1-4 mm. longis pubescentibus, stipulis subulatis circa 3 mm. longis. Flores racemoso-paniculati, paniculis terminalibus floribundis, ramis panicularum 7-20 mm. longis, floribus brevibus, pedicellis circa 2 mm. longis. Calyx basi bracteolatus, late campanulatus extus strigosus dense hirsutus intus glaberrimus, limbo 5-lobo, lobo antico longissimo cuspidiformi circa 9 mm. longo, apice acuminato-cuspidato. Vexillum circa 8 mm. longum circa 4 mm. latum, unguiculatum, ungue 2 mm. longo filiformi 1/2 mm. longo. Alae circa 6 mm. longae, carina breviores, unguiculatae, unguibus 2 mm. longis linearibus, laminis falcato-obovatis circa 4 mm. longis circa 1 mm. latis, apice rotundatis basi superiore auriculatis. Carina 7 mm. longa, unguiculata, ungue 2-1/2 mm. longo lamina falcato-rhomboido-obovato 4 mm. longo 2 mm. lato.

Nom. JAP. *Gaku-hagi*.

Hab. Formosa: Senkyaku, Shintiku. (Leg. SHIMADA, no. 3561! Sept. 1928).

5). ***Polypodium Hayatai***, MASAMUNE, nom. nov.

Syn. *Polypodium tenuissimum*, HAY. Ic. Pl. Formos. IV. p. 254, f. 178. (1914), et Gen. Index, p. 113. (1916); SASAKI List. Pl. Formos. p. 34. (1928). non COPLAND.

Nom. Jap. *Torano-urabosi*.

Hab. Formosa.

6). ***Pinus Armandi***, FRANCH. in Nouv. Arch. Mus. Paris, sér. 2. VII. p. 95, t. 12, et Pl. David. I. p. 285. (1884); MASTERS in Journ. Linn. Soc. London, Bot. XXVI. p. 549. (1902), et XXXVII. p. 415. (1906); STAFF, in Bot. Mag. CXXXVI. t. 8347. (1910); SHAW, in SARGENT Pl. Wilson. I. p. 1. (1911), et p. 12. (1914); WILLSON, Conifers and Taxades of Jap. p. 20. (1916).

Syn. *Pinus Masteriana*, HAY, in Gard. Chron. ser. 3. XLIII. p. 194. (1905).

Pinus Armandi, Franchet var. *Masteriana*, HAY. Fl. Mont. Formos. p. 217. fig. 8. (1908); MAK. and NEM. Fl. Jap. p. 1538 (1925).

Pinus amamiana, KOIDZ. in Tokyo, Bot. Mag. XXXVIII. p. 113 (1924).

Nom. Jap. *Takane-goyo*.

Hab. Formosa: Niitakayama (Leg. S. SASAKI! Aug. 28, 1927); Yakusima (Leg. G. MASAMUNE! Aug. 1927, et 1928) Tanegasima (Leg. G. MASAMUNE!).