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CONTRIBUTIONS TO THE FLORA OF NORTHERN JAPAN VI

BY

KINGO MIYABE AND MISAO TATEWAKI

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(With 4 text-figures)

73. *Asplenium Ruta-muraria* L. Sp. Pl. ed. 1, (1753), 1081; MIQ. Prol. Fl. Jap. (1861-1867), 337, 389; HOOK. & BAK. Syn. Fil. (1868), 213; BRITT. & BR. Ill. Fl. Nor. Am. I. (1896), 25; CHR. Farnkraeut. (1897), 202; FRANCH. ET SAV. Enum. Pl. Jap. II. (1876), 219; MAKINO, in Bot. Mag. (Tokyo), VII. (1893), 96; MATSUM. Ind. Pl. Jap. I. (1904), 291; HEGI, Ill. Fl. Mittel-Europ. I. (1906), 31, *t. 5, f. 5*; OGATA, Icon. Fil. Jap. (1930), *Pl. 108*; MAKINO & NEMOTO, Fl. Jap. ed. 2, (1931), 26; MASAMUNE, in Journ. Soc. Trop. Agr. Taihoku Imp. Univ. IV. (1932), 195; TERAZAKI, Icon. Pl. Jap. (1933), 2037; MURAI, Pl. Sanriku Districts, (1935), 19.

NOM. JAP. *Ichô-shida*.

HAB. *Yezo*: Mt. Ashibetsu, Prov. Ishikari (S. DOI, VII. 1935).

DISTR. Asia, Europe, N. America and N. Africa.

Remarks. New to the flora of Hokkaido and Saghalien.

74. *Lepisorus Onoei* CHING, in Bull. Fan Memor. Inst. Biol. IV. (1933), 87; H. ITO, in Journ. Jap. Bot. XI. (1935), 93.

Polypodium Onoei FR. ET SAV. Enum. Pl. Jap. II. (1876), 246, et (1879), 642.

Polypodium lineare THUNB. var. *Onoei* MAKINO, in Bot. Mag. (Tokyo), XI. (1879), (282), et Phan. et Pterid. Jap. Icon. III.-1. (1899), *t. 10*; MATSUM. Ind. Pl. Jap. I. (1904), 336; MATH, in Journ. Linn. Soc. XXXIX. (1911), 380; MASAMUNE, Fl. Isl. Yakushima, (1934), 94.

Polypodium lineare THUNB. var. *subspathulatum* TAKEDA, in Bot. Mag. (Tokyo), XXVIII. (1914), (363), excl. syn.; MAKINO & NEMOTO, Fl. Jap. ed. 2, (1931), 90; OGATA, Icon. Fil. Jap. II. (1929), *pl. 37*.

NOM. JAP. *Hime-nokishinobu*, *Yoroiran*.

HAB. *Yezo*: Isl. Okushiri, Prov. Shiribeshi (B. SONOKI, VIII. 9, 1933;

M. TATEWAKI, V. 24, 1935; KINGO TOGASHI, VI. 9, 1935).

DISTR. Yezo, Honshu, Shikoku, Kyushu and Korea.

Remarks. New to the flora of Hokkaido and Saghalien.

75. *Abies sachalinensis* FR. SCHM.: MIYABE & KUDO, Fl. Hok. & Saghal. I. (1930), 75.

var. ***corticosa*** TATEWAKI, in Rigakukai, XXXII. (1934), 498, 499, nom. seminud.

Cortex arboris ut in *Picea jezoensis*.

NOM. JAP. *Onihada-todomatsu*.

HAB. S. Kuriles: Near Ponmatsugahama, Isl. Shikotan (M. TATEWAKI, VI. 21, 1934).

DISTR. S. Kuriles, Yezo and Saghalien.

Remarks. The bark of the trunk is dark grayish-brown, scaly and deeply fissured. It occurs in the eastern and northern Yezo, S. Kuriles and also in Saghalien.

76. *Rumex graminifolius* LAMB.: MIYABE & KUDO, Fl. Hok. & Saghal. IV. (1934), 499:

NOM. JAP. *Hosoba-himesuiba*. (n. n.).

HAB. S. Saghalien: The upper Naruko, Shikka Distr. (M. KAWASHIMA, VII. 21, 1935); Mt. Shiroji (S. SUGAWARA, VIII. 7, 1935).

Remarks. The present species was reported from the Kuriles by PALLAS and from Dui in the Northern Saghalien by HERDER. This species has not hitherto been collected in the Southern Saghalien.

77. *Arenaria Redowskii* CHAM. ET SCHL. in Linnaea I. (1826), 50; FENZL, in LEDEB. Fl. Ross. I. (1842), 370; RGL. ET TIL. Fl. Ajan. (1859), 74; REGEL, Pl. Radd. Dicotyl. Polypet. I. (1862), no. 315, t. IX, f. 5-6; HULT. Fl. Kamtchat. II. (1928), 85, in nota.; KOMAR. Fl. Pen. Kamtschat. II. (1929), 97, in nota.

NOM. JAP. *Karafuto-miyamahakobe*. (n. n.).

HAB. S. Saghalien: Mt. Kawashima, Shikka Distr. (S. SUGAWARA, VIII. 3, 1935).

DISTR. Saghalien, Ochotsk, Ajan and E. Siberia (to Jakutsk).

Remarks. New to the flora of Japan.

78. *Melandryum affine* J. VAHL, in Fl. Dan. (1843), fas. 40; HULT. Fl. Kamtchat. II. (1928), 91.

Lychnis affinis J. VAHL, in FRIES, Mantiss. III. (1842), 36; BRITT. & BR.

Ill. Fl. Nor. Am. II. (1897), 15; Koidz. in Bot. Mag. (Tokyo), XXV. (1911), 208; KOMAR, Fl. Pen. Kamtschat. II. (1929), 103.

NOM. JAP. *Sugawara-biranjii*. (n. n.).

HAB. *S. Saghalien*: Funadomari, Shikka Distr. (M. KAWASHIMA, VII. 16, 1935); Mt. Kawashima (S. SUGAWARA, VIII. 3, 1935); Mt. Shiroji, (S. SUGAWARA, VIII. 7, 1935).

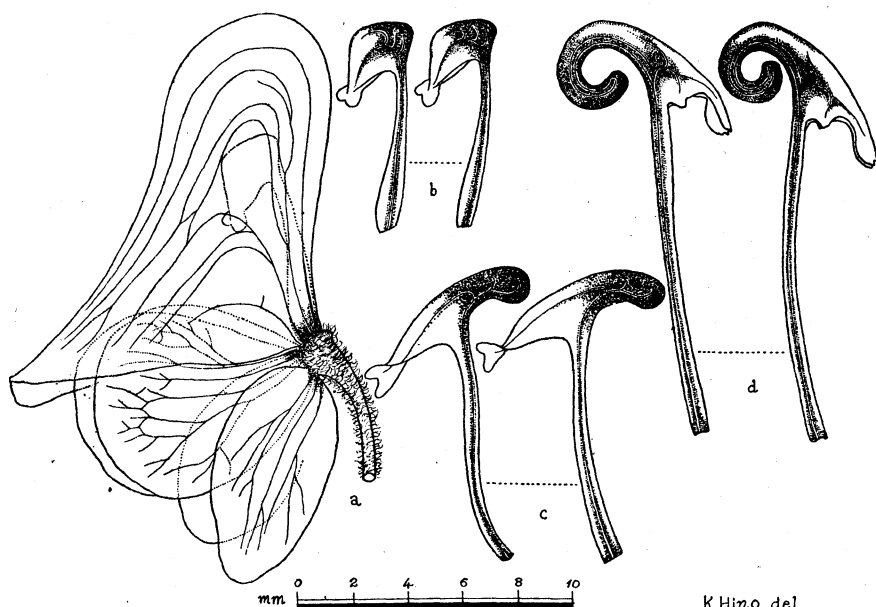
DISTR. Saghalien, Kamtschatka, Chukthch Penins., Siberia to arctic and subarctic Europe and North America.

Remarks. New to the flora of Japan.

79. *Aconitum Tatewakii* MIYABE, sp. nov.

Aconitum umbrosum NAKAI, in Bot. Mag. (Tokyo), XXXI. (1917), 223, quoad pl. Mt. Yubari, Mt. Memuro, Mt. Pipairo, (non KOMAR.).

Caulis cum inflorescentia 60-80 cm altus erectus teres simplex vel pauciramosus infra medium glabrescens supra densius puberulus pilis crispulis. Folia radicalia cum petiolis 25-35 cm longa glabrescentia; lamina foliorum reniformia palmati-trifida margine minute ciliolata, segmento mediano rhombeo-ovato vel rhombeo-obovato, segmentis lateralibus rhombeo-orbicularibus trifidis, supra sparse



K. Hino del.

Fig. 5. a-b: *Aconitum Tatewakii* MIYABE. a. flower; b. nectaries.
c. nectaries of *Aconitum gigas* LÉVL. ET VNT.
d. nectaries of *Aconitum umbrosum* KOMAR.

pilosa infra pallida, praeter nervos primarios densiuscule pilosos glabrescentia 7-9 cm longa 15-18 cm lata. Folia caulina plerumque 2 radicalibus conformia sed minora; inferiora majora et longius petiolata. Racemus 20-40 cm longus sub-simplex basi plerumque bi-ramosus; axis recurvato-hirtella; bractae superiore lineares vel subulatae; pedicelli bracteolati dense recurvato-hirtelli. Flores sordide sulphurei. Sepala lateralia obovata extus glabra intus pilosa. Sepala infima oblonga extus glabra intus pilosa. Cassis recta subconico-cylindrica 2 cm longa 1 cm lata medio subconstricta apice rotundata antice plus minusve rostrata. Nectaria ovato-oblonga vel oblongo-lanceolata, calcare brevissimo ca. 5 mm longo. Filamenta basi dilatata edentata glabra. Capsella 3 erecta glaberrima 12-16 mm longa.

NOM. JAP. *Yezo-reijinsô*.

HAB. *Yezo*: Mt. Satsunai, Prov. Tokachi (M. TATEWAKI, VII. 27, 1927-type in Herb. Fac. Agr. Hokkaido Imp. Univ.; S. NISHIDA, 1917); Mt. Pipairo (S. NISHIDA, 1914); Mt. Memuro (S. NISHIDA, 1914). Yûbari, Prov. Ishikari (Y. TOKUBUCHI, 1893); Mt. Yûbari (H. YANAGISAWA, 1912; S. NISHIDA, 1913); Mt. Tokachi (H. KOIDZUMI, 1915).

DISTR. Endemic.

var. ***vegetum*** MIYABE, var. nov.

Aconitum umbrosum NAKAI, in Bot. Mag. (Tokyo), XXXI. (1917), 223, quoad pl. Jôzankei, Teine, Zenibako, Garugawa, Mt. Ashibetsu, Shoya, Saruru, (non KOMAR.).

Aconitum gigas NAKAI, in Bot. Mag. (Tokyo), XLIX. (1935), 581, quoad pl. Saruru, (non LÉVL. ET VNT.).

Plantae robustiores. Caulis ad 1-1.3 m altus; folia radicalia laminis 22-30 cm latis 12-17 cm longis petiolis 45-65 cm longis.

NOM. JAP. *Yezo-no-ôreijinsô*. (n. n.).

HAB. *Yezo*: Jôzankei, Prov. Ishikari (K. MIYABE & Y. TOKUBUCHI, 1896-type in Herb. Fac. Agr. Hokkaido Imp. Univ.; M. TATEWAKI, 1921); Garugawa (K. MIYABE, 1891); Mt. Teine (Y. TOKUBUCHI, 1892; H. YANAGISAWA, 1912); Mt. Ashibetsu (H. KOIDZUMI, 1915). Zenibako, Prov. Shiribeshi (Y. TAKENOUCHI, 1882). Saruru, Prov. Hidaka (Y. TOKUBUCHI, 1892); Shoya (Y. TOKUBUCHI, 1892; M. TATEWAKI, 1927).

DISTR. Endemic.

Remarks. The distribution of the typical form of the present species is restricted to the Hidaka and Yûbari Mountain Ranges. But in the form of var. *vegetum*, it is found in the moist forests of Saruru, Shoya and Jôzankei, and at the foot of Mts. Ashibetsu and Teine, where by its rank growth it is difficult to distinguish it from *Aconitum gigas* LÉVL. ET VNT. But they are distinguish-

able from each other by the shape of the flower and especially by the spur of the nectary. In *Aconitum gigas*, the nectary is linear and is attached to the stalk at about its middle, and the spur is more or less reflexed. From *Aconitum umbrosum* KOMAR. which grows throughout the Island of Saghalien, extending to the provinces of Nemuro and Teshio in Hokkaido, the present species is also readily distinguished by the shape of the nectary. The nectary in *Aconitum umbrosum* has an annulate spur.

80. *Callianthemum sachalinense* MIYABE ET TATEWAKI, sp. nov.

Rhizoma perenne crassum apice foliis emortuis fibrosis vestitum, radicibus filiformibus crassis. Folia radicalia glaberrima longe petiolata, petiolis 12-22 cm longis basi dilatatis; lamina ovato-deltaidea vel oblongo-deltaidea ternata supra viridissima subtus pallidiora, segmentis stipitatis triangularibus, terminaribus biternatis, lateralibus ternatis lobis flabellatim incisis lobulis oblongis vel obovato-oblongis apice obtusis vel rotundatis mucronulatis. Scapi glabri teretes 1-2-flori, 30-40 cm alti folia radicalia superantes. Folia caulina pauca breve petiolata basi leviter dilatata; lamina biternata vel ternata, lobis trisectis et flabellatim incisis. Sepala membranacea albida glaberrima ovato-elliptica vel obovata 5-7 mm longa et 3-5 mm lata apice rotundata. Petala alba oblonga vel obovato-oblonga ca. 10 mm longa apice rotundata basi rubro-aurantiaca microsaccata nectarifera. Stamina numerosa 2-2.5 mm longa, filamentis filiformibus, antheris oblongis. Carpella 5-10, glaberrima. Stylus recurvus. Achenia subglobosa 3-4 mm longa ca. 3 mm lata leviter reticulato-sculpturata, stylis brevibus hamatis.

NOM. JAP. *Karafuto-miyama-ichige*. (n. n.).

HAB. *S. Saghalien*: The upper Naruko, Shikka Distr. (M. KAWASHIMA, VII. 21, 1935—fl. type in Herb. Fac. Agr. Hokkaido Imp. Univ.); Mt. Kawashima (S. SUGAWARA, VIII. 3, 1935—fr. type in Herb. Fac. Agr. Hokkaido Imp. Univ.).

DISTR. Endemic.

Remarks. Among the numerous specimens of this interesting species collected in the mountains of the paleozoic formation in the Province of Shikka in Saghalien by Messrs. S. SUGAWARA and M. KAWASHIMA in the months of July and August in 1935, we have only one specimen having a flower. The flower has three sepals and four petals. Compared with *Callianthemum Miyabeanum* TATEWAKI, which has 5 sepals, variable in size, obovato-orbicular or obovate and straw-colored, and more numerous petals being 8-12 in number, our species is decidedly different from the Hidaka plant. The present species is more closely related to *Callianthemum insigne* NAKAI, from which it is distinguished by the shape of sepals and petals, and by the thinner texture and

the shape of the leaves and also by the larger size of the plant itself.

81. *Ranunculus subcorymbosus* KOMAR. in FEDDE, Repert. XIII. (1914), 234, et Fl. Pen. Kamtschat. II. (1929), 145, *t. XIV*.

Ranunculus acer L. subsp. *japonicus* HULT. Fl. Kamtschat. II. (1928), 120, fide KOMAR.

NOM. JAP. *Kenashi-miyama-kimpôge*. (n. n.).

HAB. *Yezo*: Mt. Ōsengen and Mt. Sengen, Prov. Oshima (T. ISHIYAMA, 1935). Mt. Kariba, Prov. Shiribeshi (I. YAMAMOTO, 1930); Mt. Yoichi, (H. YANAGISAWA, 1915; I. YAMAMOTO, 1928). Mt. Muine-Tengu, Prov. Iburi (I. YAMAMOTO, 1931). Mt. Yûbari, Prov. Ishikari (H. YANAGISAWA, 1912; S. NISHIDA, 1913); Mt. Ashibetsu (S. NISHIDA & H. YANAGISAWA, 1913); Mt. Daisetsu (Y. IMAI & S. YAMAGIWA, 1931); Mt. Soranuma (S. ASAJI, 1932). Mt. Shokanbetsu, Prov. Teshio (I. YAMAMOTO, 1935); Mt. Ofuyu (I. YAMAMOTO, 1935); Mt. Kunpetsu (I. YAMAMOTO, 1935). Mt. Poroshiri, Prov. Hidaka (Y. TOKUNAGA & M. SAKAMOTO, 1929); Mt. Idonnapu (S. NAKANO & S. AIKAWA, 1932); Mt. Pipairo (Y. HOSHINO, 1933); Mt. Tottabetsu (Y. HOSHINO, 1933). Mt. Memuro, Prov. Tokachi (S. NISHIDA, 1914).

S. Saghalien: Mt. Asase, Shikka Distr. (S. SUGAWARA, 1935).

Honshû: Mt. Komagatake, Prov. Rikuchû (M. MIURA, 1904). Mt. Komagatake, Prov. Iwashiro (D. HOSHI, 1910).

DISTR. Saghalien, Yezo, Honshu and Kamtschatka.

Remarks. New to the flora of Japan.

82. *Thalictrum alpinum* L. Sp. Pl. ed. I, (1753), 545; DC. Prodr. I. (1824), 12; REGEL, Pl. Radd. Monopet. I. (1861), 12; LEDEB. Fl. Ross. I. (1842), 6; MAXIM. in Mél. Biol. XII. (1888), 714; YABE, in Bot. Mag. (Tokyo), XVII. (1903), 20, (var. *stipitatum*); KUDO, Fl. Isl. Paramushir, (1922), 108; HULT. Fl. Kamtschat. II. (1928), 133; KOMAR. Fl. Pen. Kamtschat. II. (1929), 153; TATEWAKI, in Bull. Biogeogr. Soc. Jap. IV.-4. (1934), 270.

NOM. JAP. *Hime-karamatsu*.

HAB. *S. Saghalien*: The upper Rukutama, Shikka Distr. (M. KAWASHIMA, VII. 30, 1935); Mt. Kawashima, (S. SUGAWARA, VIII. 3, 1935).

Remarks. New to the flora of Saghalien.

83. *Ribes horridum* RUPR. in MAXIM. Prim. Fl. Amur. (1859), 117; MAXIM. in Mél. Biol. IX. (1873), 226; FR. SCHM. Fl. Sachal. ed. ross. (1874), 144; KOMAR. Fl. Mansh. II. (1907), 446; NAKAI, in Bot. Mag. (Tokyo), XXX. (1916), 143, et Fl. Sylv. Korea. XV. (1926), 45, *t. X*; REHD. Man. Cult. Tr. & Shr. (1927), 310; YAMAZUTA, List Manch. Pl. (1930), 140; KOMAR. & KLOB-

Alis. Key Pl. Far East. Reg. USSR. I. (1931), 622; MAKINO & NEMOTO, Fl. Jap. ed. 2, (1931), 445.

Ribes lacustre JANCZ. in Mem. Soc. Phys. Hist. Nat. Genève, (1907), 352, p.p.; MIYABE & MIYAKE, Fl. Saghal. (1915), 160, (non POIR.).

NOM. JAP. *Hari-suguri* (K. MIYABE), *Kuromi-no-harisuguri* (T. NAKAI).

HAB. *Yezo*: The Yuni-ishikari, Prov. Ishikari (R. IMAI, IX. 1934).

DISTR. Saghalien, *Yezo*, Korea and Manchuria.

Remarks. New to the flora of Hokkaido.

84. *Saxifraga laciniata* TAKEDA ET NAKAI, ex NAKAI, in Bot. Mag. (Tokyo), XXVIII. (1914), 305; TAKEDA, in Notes Roy. Bot. Gard. Edinb. VIII. no. 39, (1915), 235, *pl. CXLV. f. 21-22*, et Photogr. Alp. Pl. Jap. (1933), 214; NISHIDA, in Trans. Sapporo Nat. Hist. Soc. VII. (1919), 147; MORI, Enum. Pl. Corea, (1922), 186; NAKAI, Rep. Veg. Daisetsusan Mts. (1930), 49; MAKINO & NEMOTO, Fl. Jap. ed. 2, (1931), 448; KISHINAMI, in Bot. Mag. (Tokyo), XLVI. (1932), 297.

NOM. JAP. *Kumoma-yukinoshita*, *Hime-yamahanasô*.

HAB. *S. Saghalien*: Mt. Kawashima, Shikka Distr. (S. SUGAWARA, VIII. 3, 1935).

Remarks. New to the flora of Saghalien.

85. *Sieversia pentapetala* GREENE, in Pittonia IV. (1899), 49; Rydb. in Nor. Am. Fl. XXII. (1913), 408.

form. ***plena*** MIYABE ET TATEWAKI, form. nov.

Flores pleni.

NOM. JAP. *Yaye-chinguruma*.

HAB. *Yezo*: Sapporo Bot. Gard. cult.

Remarks. In 1932 this plant was collected on Mt. Kaun, Prov. Ishikari by Prof. Y. TOCHINAI and Mr. B. ISHIDA, and is now cultivated in our Botanic Garden.

86. *Oxytropis shokanbetsuensis* MIYABE ET TATEWAKI, sp. nov.

Radix crassa cylindrica elongata fusca. Subacaulis, petiolis et scapis longe patentiorque albo-hirsutis; stipulis scariosis ferrugineis subuninerviis oblongo-lanceolatis apice acuminatis vel acutis ca. 1.5 cm longis ciliatis utrinque glabrescentibus praeter exteriores liberos et nervos hirsutos. Folia 7-9 juga; foliola crasse papyracea oblonga vel ovata sessilia apice acuta vel obtusa basi rotundata supra glabra subtus pilosa margine convoluta ciliata 4-8-(12) mm longa 2-4-(5) mm lata. Scapi paulo foliis longiores, capitulis 2-5-floris. Bractae lanceolatae vel

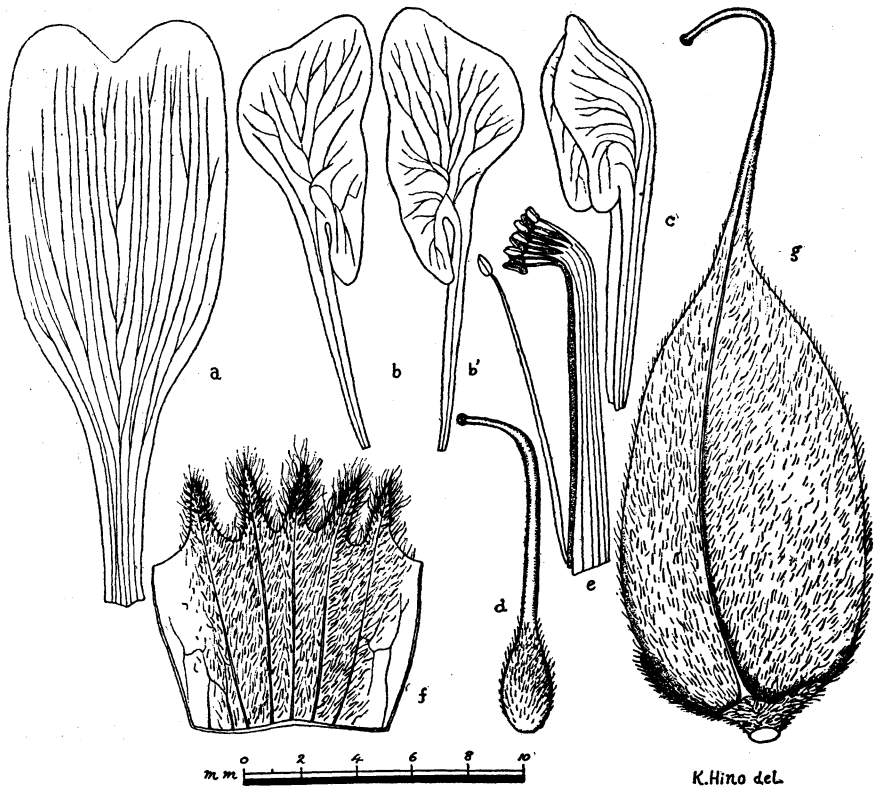


Fig. 6. *Oxytropis shokanbetsuensis* MIYABE ET TATEWAKI.
a. standard; b. wings; c. keel; d. ovary; e. stamens; f. calyx; g. ripened pod.

lineari-lanceolatae ciliatae calyce breviores vel subaequantes medio uninerviatæ. Pedicelli breves 1–3 mm longi densiuscule pilosi. Calyx tubulosus densiuscule hirsutus, pilis albis et nigricantibus immixtis, dentibus lanceolatis vel lineari-lanceolatis 1–2–(3) mm longis, tubis cylindricis ca. 7 mm longis. Flores purpurei. Vexillum ca. 2 cm longum, limbo oblongo-obovato apice profunde emarginato basi in unguem abrupte attenuato. Carinae 1.4–1.8 cm longae, limbo oblique elliptico apice rostrum brevissimum acuminato 0.5 mm longo. Ovarium sessile ellipsoideum adpresse albo-hirsutum. Legumina 1.5–2 cm longa 6–10 mm lata hirsuta ovata vel ovato-elliptica apice in stylos persistentes longe acuminato-attenuata.

NOM. JAP. *Mashike-genge*. (n. n.).

HAB. *Yezo*: Mt. Shokanbetsu, Prov. Teshio (H. IWAMOTO, VII. 26, 1935;

I. YAMAMOTO, VII. 28, 1935—type in Herb. Fac. Agr. Hokkaido Imp. Univ.).

Remarks. The present species is closely related to *Oxytropis hidakamontana* MIYABE ET TATEWAKI, from which it is distinguished by the glabrate stipules, the broader leaflets, the oblongo-obovate petals and the smaller mucronate keels.

87. *Cassiope Redowskii* G. DON, Gen. Syst. III. (1834), 829; DC. Prodr. VII. (1839), 611; LEDEB. Fl. Ross. II. (1846), 912; HERD. in Acta Hort. Petrop. I. (1872), n. 33; KOMAR. Fl. Mansh. III. (1907), 213; C. K. SCHN. Ill. Handb. Laubholzk. II. (1907), 523, in nota.; BUSCH, in Fl. Sib. Or. Extr. II. (1915), 57; HULT. Fl. Kamtchat. IV. (1930), 29, in nota.

Andromeda Redowskii CHAM. ET SCHLECHT. in Linnaea I. (1826), 517.

Cassiope tetragona KUDO, in Bull. Exp. For. Kyûshu Imp. Univ. I. (1931), 80; ISHIYAMA, in Rep. Saghal. Cent. Exp. Stat. Ser. I. No. 1. (1932), 203, (non D. DON).

NOM. JAP. *Karafuto-iwahige*. (ISHIYAMA, 1932).

HAB. *S. Saghalien*: Mt. Hoe, Shikka Distr.; Mt. Shikka, (R. KÔNO, 1933).

DISTR. *Saghalien*, *Ochotsk* and *Primorskaja*.

Remarks. New to the flora of Japan.

88. *Rhododendron Adamsii* REHD. in WILS. & REHD. Monogr. Azaleas, (1921), 190, et Man. Cult. Tr. & Shr. (1927), 690.

Azalea fragrans ADAMS, in Mém. Acad. St. Pétersb. II. (1808), 332, *t.* 14, et in Mém. Soc. Nat. Mosc. V. (1817), 92.

Osmothamnus fragrans DC. Prodr. VII. (1839), 715; LEDEB. Fl. Ross. II. (1846), 918.

Rhododendron fragrans MAXIM. Rhod. As. Or. (1870), 16; HERD. in Acta Hort. Petrop. (1872), 59; C. K. SCHN. Ill. Handb. Laubholzk. II. (1907), 481, (non PAXT.).

Azalea pallida TURCZ. in Bull. Soc. Nat. Mosc. (1838), 96.

Osmothamnus pallidus DC. Prodr. VII. (1839), 715; LEDEB. Fl. Ross. II. (1846), 918, excl. syn.; RGL. ET TIL. Fl. Ajan. (1859), 110.

Rhododendron pallidum DUEMMER, in Gard. Chron. (1913), Ser. III. liii. 264, (non W. W.).

Rhododendron Anthopogon C. B. CLARKE, in HOOK. Fl. Brit. Ind. III. (1821), 472, p. p.; BUSCH, in Fl. Sib. Or. Extr. (1915), 19, (non DON).

NOM. JAP. *Karafuto-miyamatsutsuji*. (n. n.)

HAB. *S. Saghalien*: Mt. Shiroji, Shikka Distr. (S. SUGAWARA, VIII. 7, 1935).

DISTR. Saghalien, Ochotsk, Ajan and E. Siberia.

Remarks. New to the flora of Japan.

89. *Rhododendron Redowskianum* MAXIM. Prim. Fl. Amur. (1859), 189, in nota., et Rhod. As. Or. (1870), 48, *t. II, f. 21-25*; HERD. in Acta Hort. Petrop. IV.-I. (1872), 68; SCHNEID. Ill. Handb. Laubholzk. II. (1907), 508, *f. 333, f. h*; KOMAR. Fl. Mansh. III. (1907), 208; BUSCH, in Fl. Sib. Or. Extr. II. (1915), 38; NAKAI, Rep. Pl. Mt. Paiktusan, (1918), 59, 68, et Fl. Sylv. Korea. VIII. (1919), 38, *pl. 12*; KOMATSU, in Bot. Mag. (Tokyo), XXXII. (1918), 7; MORI, Enum. Pl. Corea, (1922), 279; REHD. Man. Cult. Tr. & Shr. (1927), 702; YAMAZUTA, List Manch. Pl. (1930), 215; HULT. Fl. Kamtchat. IV. (1930), 17, in nota.; KOMAR. & KLOB.-ALIS. Key Pl. Far East. Reg. USSR. II. (1932), 836.

NOM. JAP. *Kumoma-tsutsuji*.

HAB. *S. Saghalien*: The upper Naruko, Shikka Distr. (M. KAWASHIMA, VII. 21, 1935).

DISTR. Saghalien, Korea, Manchuria, Amur, Jabnolowj and Transbaical.

Remarks. New to the flora of Hokkaido and Saghalien.

90. *Primula borealis* DUBY, in Mém. Soc. Phys. Hist. Nat. Genève X. (1834), *t. 2, f. 2*, et in DC. Prodr. VIII. (1844), 43; REGEL, in Acta Hort. Petrop. III. (1874), 149; LEDEB. Fl. Ross. III.-I. (1847-1849), 15; GRAY, Syn. Fl. Nor. Am. II.-I. (1878), 58; PAX, in ENGL. Pfl.-reich. IV.-237. (1905), 80; BUSCH, in Fl. Sib. Or. Extr. IV. (1926), 31.

Primula sibirica JACQ. var. *borealis* F. KURTZ, in ENGL. Bot. Jahrb. XIX. (1895), 397.

NOM. JAP. *Kawashima-kozakura*. (n. n.).

HAB. *S. Saghalien*: Funadomari, Shikka Distr. (M. KAWASHIMA, VII. 16, 1935); Mt. Kawashima (S. SUGAWARA, VIII. 3, 1935).

DISTR. Saghalien, Eastern arctic Siberia and Behring Sea Region.

Remarks. New to the flora of Japan.

91. *Armeria vulgaris* WILLD. Enum. Hort. Berol. I. (1806), 333; A. GRAY, Syn. Fl. Nor. Am. II.-I. (1878), 55; HERD. Pl. Radd. in Acta Hort. Petrop. X.-I. (1887), 53; YABE & YENDO, in Bot. Mag. (Tokyo), XVIII. (1904), (192); MATSUM. Ind. Pl. Jap. II.-2. (1912), 483; HULT. Fl. Kamtchat. IV. (1930), 60; KOMAR. & KLOB.-ALIS. Key Pl. Far East. Reg. USSR. II. (1932), 854.

var. ***arctica*** KOMAR. Fl. Pen. Kamtschat. III. (1930), 31.

Armeria vulgaris WILLD. form. *arctica* CHAM. in Linnaea VI. (1831), 566; KURTZ, in ENGL. Bot. Jahrb. XIX. (1895), 472; MIYABE, Fl. Kuril. (1890), 249;

KUDO, Fl. Isl. Paramushir, (1922), 150; TATEWAKI, in Bull. Biogeogr. Soc. Jap. IV.-4. (1934), 293.

Statice Armeria L. *β. arctica* LEDEB. Fl. Ross. III.-1. (1847-1849), 457.

form. ***elongata*** MIYABE ET TATEWAKI, form. nov.

Folia glabra ciliata. Scapi glabri elongati ca. 20 cm longi.

NOM. JAP. *Karafuto-hamakanzashi*. (n. n.).

HAB. *S. Saghalien*: Funadomari, Shikka Distr. (M. KAWASHIMA, VII. 16, 1935-type in Herb. Fac. Agr. Hokkaido Imp. Univ.); Mt. Kawashima, (S. SUGAWARA, VIII. 3, 1935); Mt. Shiroji, (S. SUGAWARA, VIII. 7, 1935).

Remarks. New to the flora of Saghalien.

The Saghalien plant differs from the Kurile plant in having the elongated smooth scape instead of the shorter and scabrous one. The plant in question may correspond to the forma *arctica elongata* HERDER in Acta Hort. Petrop. X.-1. (1887), 55.

92. *Pinguicula glandulosa* TRAUTV. ET MEY. Fl. Ochot. (1856), 65, t. 31; HERD. Pl. Radd. Monopet. IV.-1. (1872), 101, in nota.

NOM. JAP. *Maruba-mushitori-sumire*. (n. n.).

HAB. *S. Saghalien*: Funadomari, Shikka Distr. (M. KAWASHIMA, VII. 16, 1935); Mt. Kawashima (S. SUGAWARA, VIII. 3, 1935).

DISTR. Saghalien and Ochotsk.

Remarks. New to the flora of Japan.

93. *Plantago Togashii* MIYABE ET TATEWAKI, sp. nov.

Radices fibrosae numerosae fuscentes. Folia petiolata erecto-patentia; lamina ovata apice obtusa mucronulata basi rotundato-cuneata margine indistincte irregulariter denticulata carnosula vulgo 5-7 nervia utrinque viridula supra lucida subtus elevato nervosa usque ad 10 cm longa ad 6 cm lata. Petioli glabri laminis subaequantes vel breviores basi profunde dilatati. Scapus folia superans gracilis teres striatus supra adpresse hirtellus 10-20 cm altus. Spica gracilis elongata densiflora 7-13 cm longa. Bractea ca. 1.5 mm longa ovata dorso uninervia obscure viridis margine scariosa apice obtusa. Calycis segmenta 4 aequilonga elliptica vel elliptico-ovata integra apice obtusa vel rotundata dorso obscure viridis margine scariosa glabra 2 cm longa. Corollae glabrae; tubus calycem superans; lobi reflexo-patentes 0.7 mm longi ovato-lanceolati vel ovati apice obtusi vel acuti fuscentes medio uninervi glabri margine integerrimi. Filamenta tubo corollae longe exserta. Ovarium apice rotundatum glabrum. Stylus tubo corollae longe exsertus praeter basin persistentem stigmatosus. Capsula 1/3 calycem superans brunnea glabra apice obtusata saepe rotundata glabra. Semina

nigra 7-10.

NOM. JAP. *Iso-ôbako*. (n. n.).

HAB. *Yezo*: Isl. Okushiri, Prov. Shiribeshi (M. TATEWAKI, V. 22, 1935; B. YOSHIMURA, VII. 17, 1935-type in Herb. Fac. Agr. Hokkaido Imp. Univ.; KINGO TOGASHI, VIII. 17, 1935).

Remarks. The present littoral species appears at first sight to be related to *Plantago major* L. var. *asiatica* DECNE., from which however it is easily distinguished by the narrower spikes and the fleshy leaves, and by the number of the seeds in a capsule. From *Plantago littoralis* NAKAI, our plant differs in the smaller size of the leaves and spikes, in the number of the nerves of the leaves and in the shape of the bract. The species is named after Mr. KINGO TOGASHI, the forest keeper of the Island Okushiri, and the arduous collector of the plants of the island.

94. *Adenophora uryuensis* MIYABE ET TATEWAKI, sp. nov.

Perennis. Caulis gracilis superne erectus et viridis inferiore plus minus zigzag-forme curvatus et purpurascens glaber laevis simplex angulatus foliosus ca. 20 cm altus. Folia radicalia elliptico-rotundata dentata longe petiolata, petiolis alatis 3.3 cm longis 2.5 cm latis. Folia caulina alternatim disposita pauca vel numerosa petiolata, petiolis alatis 5-20 mm longis, basi alam in caulem longe decurrentia; lamina lanceolata vel ovata 2-4.5 cm longa 1-1.5 cm lata apice acuta vel obtusa et minute mucronata utrinque glabra laevia supra viridia lucida impressinervata subtus pallida prominente nervata margine dentato-serrata vel denticulata. Bracteae lanceolatae integrae vel paucidenticulatae 3-5 mm longae. Flores simplices vel subsimplices dispositi erectiusculi. Calyx, tubo obconico glabro ca. 3 mm. longo, lobis sub anthesin plerumque subpatentibus ovatis vel lanceolato-ovatis apice acutiusculis integris uninerviatis 4-6 mm longis. Corolla glabra campanulata apice 5-lobata 15-25 mm longa, lobis late triangularibus apice acutiusculis 6-8 mm longis basi 5-10 mm latis. Stamina inclusa ca. 1.4 mm longa; filamenta parte dilatata alba extus densissime villosa 4 mm longa, parte angusta glaberrima alba ca. 5 mm longa; antherae lineares luteae. Discus tubulosus glaber apice truncatus 1 mm longus. Stylus paulum exsertus apice versus sensim incrassatus apice tripartitus ca. 20 mm longus, lobis 1.5-4 mm longis.

NOM. JAP. *Shiratori-shajin*. (n. n.)

HAB. *Yezo*: Mt. Shiratori, Uryû, Prov. Ishikari (B. YOSHIMURA, VIII. 1935-type in Herb. Fac. Agr. Hokkaido Imp. Univ.).

Remarks. The present species grows in a restricted area in the serpentine rock formation in the Uryû district, associated with *Anaphalis alpicola* MAKINO, *Crepis gym-nopus* KOIDZ. and *Swertia tetrapetala* PALL.

The forest of this serpentine district is characterised by the exclusive dominance of *Picea Glehni* and the distribution of *Pinus pumila* in the low land, of which the junior author had already explained in the Research Bulletins of the College Experiment Forest, College of Agriculture, Hokkaido Imperial University, Vol. VII. (1930).

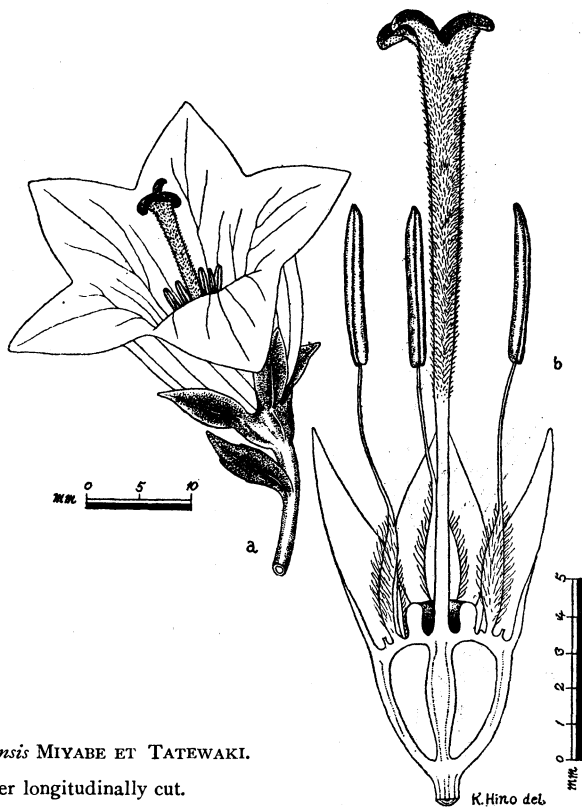


Fig. 7. *Adenophora uryuensis* MIYABE ET TATEWAKI.

a. flower; b. flower longitudinally cut.

95. *Campanula Uyemurae* MIYABE ET TATEWAKI, com. nov.

Adenophora Uyemurae KUDO, in Bull. Exp. For. Kyûshû Imp. Univ. I. (1931), 88; ISHIYAMA, in Rep. Saghal. Centr. Exp. Stat. No. 1. (1932), 87, pl. VII. b.

NOM. JAP. *Horotosô*.

HAB. *S. Saghalien*: Mt. Kashipo, Motodomari Distr. (N. HIRATSUKA, VIII. 7, 1928; H. ABUMIYA, G. TAKEYE & Y. HOSHINO, VII. 22, 1932); Mt. Nakanodake (H. ABUMIYA, G. TAKEYE and Y. HOSHINO, VII. 27, 1932). Mt. Horoto, Shikka Distr. (T. INOKUMA, VIII. 21, 1931).

DISTR. Endemic.

Remarks. The absence of the disk excludes our plant from the genus *Adenophora*. In the character of the deeply cleft corolla lobes, it is related to the American *Campanula aparinoides* PURSH.

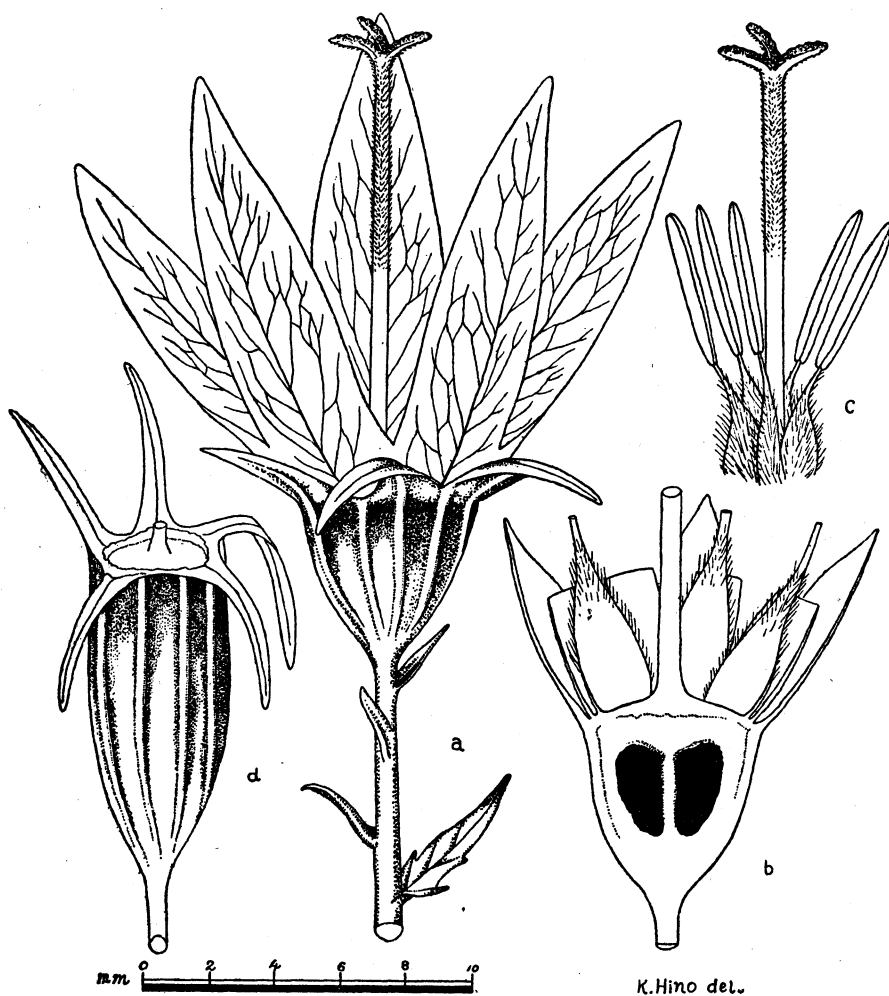


Fig. 8. *Campanula Uyemurae* MIYABE ET TATEWAKI.
 a. flower; b. flower longitudinally cut; c.
 stamens and pistil; d. ripening ovary.

96. *Chrysanthemum arcticum* L. Sp. Pl. ed. 1, (1753), 889; MAEKAWA, in Trans. Sapporo Nat. Hist. Soc. VIII. (1921), 5; HULT. Fl. Kamtchat. IV. (1930), 172, f. 3, a-i, p-r.

var. *integrifolium* TATEWAKI, var. nov.

Chrysanthemum integrifolium TATEWAKI, in Trans. Sapporo Nat. Hist. Soc. XI. (1927), 188, (non RICHARD.).

Folia caulina numerosa sursum gradatim minora lineari-spathulata integra apice rotundata vel obtusa.

NOM. JAP. *Hitotsuba-kohamagiku*, *Araito-kohamagiku*.

HAB. *Kuriles*: Isl. Alaid (H. ITO & G. KOMORI, VII. 22, 1926—type in Herb. Fac. Agr. Hokkaido Imp. Univ.).

N. Saghalien: Alexandrowsk (S. TAKEO, VIII. 28, 1905).

97. *Juncus triglumis* L.: MIYABE & KUDO, Fl. Hok. & Saghal. III. (1932), 305.

NOM. JAP. *Takane-i*.

HAB. *S. Saghalien*: Funadomari, Shikka Distr. (M. KAWASHIMA, VII. 16, 1935); Mt. Kawashima (S. SUGAWARA, VIII. 3, 1935).

Remarks. New to the flora of Saghalien.

98. *Cypripedium debile* REICHB. Xen. Orch. II. (1874), 333; E. PFITZER, in ENGL. Pfl.-reich. IV.-50. (1903), 41, f. 20-b; MATSUM. Ind. Pl. Jap. II.-1. (1905), 241; IINUMA & MAKINO, Zôtei Sômoku-Zusetsu, IV. (1912), 1245, pl. 1138; SCHLTR. Orchideol. Sino-Jap. Prodr. (1919), 81; MAKINO & NEMOTO, Fl. Jap. ed. 2, (1931), 1632; TERAZAKI, Icon. Pl. Jap. (1933), 419; MURAI, Fl. Miyagi Pref. (1935), 183.

Cypripedium cardiophyllum FR. ET SAV. Enum. Pl. Jap. II. (1876), 39, et (1879), 738.

NOM. JAP. *Ko-atsumori*.

HAB. *Yezo*: Kaminokuni, Prov. Oshima (K. KOYANAGI, VII. 6, 1933); Isl. Okushiri, Prov. Shiribeshi (KINGO TOGASHI, IX. 12, 1935).

DISTR. *Yezo*, Honshu, Shikoku and China.

Remarks. New to the flora of Hokkaido and Saghalien.

99. *Silene Kawashimai* MIYABE ET TATEWAKI, sp. nov.

(*Eusilene*, *Dichasiosilene*)

Radix simplex. Caulis basi lignescens et ramosus, ramis simplicibus 12-20 cm altis puberulis foliatis. Folia radicalia oblanceolato-lineariter crassiuscula apice acuta basi longe attenuata utrinque puberulens 2-4 cm longa 2-4 mm lata; folia caulina opposita saepe 2 oblanceolato-oblonga crassiuscula sessilia apice acuta vel acutiuscula utrinque puberulens 1.5-2.5 cm longa 2-4 mm lata. Flores terminali in cymoso 2-3-floro vel solitarii erecti oppositi longe pedicellati. Pedicelli filiformes calyce multilongiores, infra medium bracteolati vel nudi, bracteis foliaceis oppositis lanceolatis 8-10 mm longis 3-4 mm latis, bracteolis lineari-lanceolatis minutis 5-8 mm longis 1-2 mm latis. Calyx 8 mm longus sub anthesi subcampanulatus puberulens, striis decem purpurascens, dentibus del-

toideo-lanceolatis vel triangularibus purpurascentibus apice obtusis. Petala albida lingulata subintegra leviter emarginata vel truncata fauce nuda 10-12 mm longa. Stamina petalis breviores. Stili 3 petalis breviores. Anthophorum abbreviatum glabrum.

NOM. JAP. *Karafuto-miyama-birangi*. (n. n.).

HAB. *S. Saghalien*: Funadomari, Shikka Distr. (M. KAWASHIMA, VII. 16, 1935).

100. *Salix berberifolia* PALL. Fl. Ross. I.-2. (1788), 84; TRAUTV. in LEDEB. Fl. Ross. III. (1850), 621; SCHNEID. in SARG. Pl. Wils. III. (1916), 141; HULT. Fl. Kamtchat. II. (1928), 8; NAKAI, Fl. Sylv. Korea. XVIII. (1930), 149.

var. ***Kimurana*** MIYABE ET TATEWAKI, var. nov.

Fruticulus ca. 7 cm altus, trunco subterraneo brunneo 4 mm in diametro, ramis procumbentibus brunneis nitidis glabris, ramulis viridibus glabris. Gemmae subglobosae glaberrimae lucidae luteae 2 mm longae 1.5 mm latae. Folia oblongo-obovata coriacea nitida supra laete virentia subtus pallida utrinque glabra apice rotundata basi acuta margine profunde serrata, serraturis inaequalibus acutis rectis incurvis vel patentibus rigidis, venis crassiusculis reticulatis, primariis utrinque 5-7 a costa acute divergentibus, 1.5-3.0 cm longa 8-20 mm lata petiolata, petiolis 3-8 mm longis glabris; exsucca quoque folia hyeme non decidua. Stipulae parvae paucidentatae. Amenta fructifera cylindrica 1.5-3.7 cm longa 7-8 mm crassa, rachidibus albo-pubescentibus. Pedunculi 1.3-2 cm longi pilosiusculi foliati, foliis 3-4 ovalibus petiolatis ca. 7 mm longis et latis, ceterum ut in ramulorum steriliu. Bracteolatae fuscae obovatae apice rotundatae vel leviter emarginatae longivillosae. Glandula una ventralis clavata 0.8 mm longa. Capsulae maturitate stramineae ovato-conicae, ad 5.5 mm longae glabrae, stipitibus 0.5 mm longis; stylis 0.5-0.8 mm longis apice bifidis, laciniis 0.2-0.4 mm longis. Stigmata persistentia biloba 0.3-0.4 mm longa.

NOM. JAP. *Karafuto-megiyonagi*. (n. n.).

HAB. *S. Saghalien*: The upper Rukutama, Shikka Distr. (M. KAWASHIMA, VIII. 2, 1935).

Remarks. The present variety is characterised by the distinct and rather longer petioles, the longer styles and also by the elongated catkins. This interesting alpine willow is named in honour of DR. ARIKA KIMURA, the Salicologist of Japan.

In 1927, Prof. Y. KUDO proposed the name of SCHMIDT'S LINE based on the distinguished statement made by FR. SCHMIDT in his *Reisen im Amur Lande*

und auf der Insel Sachalin (1868), p. 84. SCHMIDT proposed to divide the island of Saghalien into two very natural botanical districts by the line connecting the mouth of the Poronai in the Patience Bay and Dui on the coast of the Japanese Sea. The south-western part is characterised by having the close relation to the flora of the northern Japan, while the north-eastern by the presence of the subarctic and arctic continental elements which are found in the districts of Primorskaja, Ajan and Ochotsk. In 1935, many interesting plants as enumerated above, were collected in the mountain range of the paleozoic formation situated between the Ochotsk Sea and the River Poronai. These materials are valuable contributions to the flora of Japan and make the SCHMIDT's LINE more significant. The writers wish to express their sincere thanks to Messrs. M. IMAMI, S. SUGAWARA and M. KAWASHIMA who most kindly sent us these specimens.

The senior author wishes to acknowledge for the grant given by the Imperial Academy with which he was able to obtain so many interesting species embraced in the present paper.

摘 要

北 日 本 植 物 誌 料 六

73. **イテフシダ**。北半球及北阿弗利加に分布し、其の分布區域廣きも、本邦に於ける産地は比較的尠し。從來北日本に未記録なりしが、1935年土居氏之を葦別山中に得たり。
74. **ヒメノキシノブ**。本邦に特有なる種類にして、北海道、本州、四國、九州、朝鮮に分布す。本道に於ては奥尻島に産するのみ。1934年園木文平氏、1935年富樫錦吾氏及著者採集。
75. **オニハダトドマツ**。樹膚エヅマツの如く、南千島、北海道本島及樺太に産す。
76. **ホソバヒメスイバ**。本種は歐亞北地に分布し、千島及北樺太産の記録ありしのみなるを、南樺太船泊附近山地にて1935年川島將義氏及菅原繁藏氏之を採集す。
77. **カラフトミヤマハコベ**。本種は日本に新報知の植物なり。カトウハコベに似たるも一莖の葉數の少なきこと及葉形等に依り容易にこれと區別することを得べし。東部シベリア、オホーツク、アヤンの諸地方に分布す。1935年菅原繁藏氏南樺太川島山にて之を得たり。
78. **スガハラビランヂ**。本種は日本に新報知の植物なり。歐亞の北地に分布す。南樺太船泊地方に於て菅原繁藏氏及川島將義氏之を採集す。和名は菅原氏に因むものなり。
79. **エゾノレイジンサウ及エゾノオホレイジンサウ**。從來北日本に於けるレイジンサウ類は精査せられざりしが、著者の一人宮部は豊富なる標本のもとに研究を進め、花形及花瓣に於ける距並に葉の裂刻等に依り三種一變種を認め、學名、和名を次の如く決定せり。1. *A. gigas* (オホレイジンサウ) — 石狩、十勝、膽振、後志、渡島の産；2. *A. Tatewakii* (エゾレイジンサウ) — 日高山脈及夕張山脈の産、var. *vegetum* (エゾノオホレイジンサウ) — 石狩、日高の産；3. *A. umbrosum* (カラフトレイジンサウ) — 北海道根室及天塩、樺太全島の産。
80. **カラフトミヤマイチゲ**。本種はヒダカサウ及ウメザキサバノヲ等に近縁の種類にして、ヒダカサウとは花形及葉形に依り直ちに類別することを得べし。ウメザキサバノヲとはよく類

似するも、葉の頂片、花弁の形及全株の大形なることに依り區別することを得べし。1935年南樺太鳴子川上流にて川島將義氏之を發見、次いで菅原繁藏氏採集す。

81. **ケナシミヤマキンパウゲ。** ミヤマキンパウゲ群中にて、莖の下部も全く平滑、花序は繖房狀といふ特徴ある種類にして、勘無奈加及本邦に分布し、本邦に於ては樺太、北海道、本州の諸高山に産す。
82. **ヒメカラマツ。** 北半球の北地高山に分布し、本邦に於ては僅かに本州と北千島にのみその産を知られしが、南樺太川島山附近にて1935年川島將義氏及菅原繁藏氏之を得たり。
83. **ハリスグリ。** 本種は本邦及滿洲に分布し、本邦にては樺太、朝鮮にのみ知られしが1934年今井亮氏之を石狩川上流ユニシカリ澤にて採集し、北海道にも産すること明かとなれり。
84. **クモユキノシタ。** 樺太に新記録の高山植物にて、1935年川島山にて菅原繁藏氏之を採集す。
85. **ヤヘチングルマ。** チングルマの八重咲品種。大雪山燐化雲岳の産。
86. **マシケゲンゲ。** 天塩暑寒別岳にて發見せられし植物にして、1935年岩本秀信氏及山本岩龜氏採集す。コダマサウ及ヒダカオヤマノエンダウに近きも、托葉の平滑に近きこと、旗辨の長橢圓狀を呈することとに依り區別することを得べし。
87. **カラフトイハヒゲ。** *C. tetragona* とは花梗の短きこと及葉型等に依り區別することを得。
88. **カラフトミヤマツツジ。** 日本に新報知の植物して、その分布は東部シベリアよりオホーツクアヤンの諸地方に互る。一見エゾノムラサキツツジを矮小にしたる感あるも、花序、花形に依り直ちに區別することを得べし。1935年南樺太白地山にて菅原繁藏氏之を採集。
89. **クモマツツジ。** 北日本に新記録の植物にして、本邦に於ては朝鮮に其の産を知られしのみなり。1935年南樺太鳴子川上流にて川島將義氏之を採集す。
90. **カハシマコザクラ。** 日本に新報知の植物なり。シベリア東部北地、北部ベーリング海地方等に分布す。1935年南樺太川島山附近にて川島將義氏及菅原繁藏氏之を採集す。
91. **カラフトハマカンザシ。** チシマハマカンザシに似たるも全株粗糙ならず。1935年南樺太川島山及白地山等にて川島將義氏菅原繁藏氏之を採集す。
92. **マルバノムシトリスミレ。** ムシトリスミレに似たるも、葉身圓狀にして、花莖高く、腺体を有することに依り直ちに區別し得べし。本種はオホーツク地方にその産を知られしのみなるが、今般樺太に産すること明となり、本邦に新報知の植物なり。川島山附近にて川島將義氏及菅原繁藏氏之を採集す。
93. **イソオホバコ。** ハマオホバコに近き種類なるも、一見オホバコに類似す。葉は厚く、花穂は細く、種子7-10。採集者の一人富樫錦吾氏に因みて種名を下せり。
94. **シラトリシヤジン。** 1935年吉村文五郎氏石狩國白鳥山にて初發見。
95. **ホロトサウ。** 從來 *Adenophora* に入れられしも、花盤を有することにより *Campanula* に編入。
96. **ヒトツバコハマギク。** チシマコハマギクに似たるも、莖葉全縁にして線狀筧形の一變種。
97. **タカネキ。** 樺太に新記録。1935年樺太川島山附近にて川島將義氏及菅原繁藏氏之を採集す。
98. **コアツモリ。** 1933年渡島上國にて小柳氏、1935年後志國奥尻島にて富樫錦吾氏之を採集す。北日本に新記録なり。
99. **カラフトミヤマビランヂ。** 1935年川島將義氏に依り南樺太船泊附近にて始めて發見せられし新種なり。歐洲産の *S. saxifraga* に似たるも、花喉に副冠なく、葉形を異にす。種名は採集者川島將義氏に因めるものなり。
100. **カラフトメギヤナギ。** メギヤナギに近きも、葉柄判然として長く、鋸齒牙不規則に著しく、果序長きを異にす。1935年南樺太留久玉川上流にて川島將義氏之を採集す。