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CONTRIBUTIONS TO THE FLORA OF NORTHERN JAPAN VII

BY

KINGO MIYABE AND MISAO TATEWAKI

(宮部金吾・舘脇操)

(With 3 text-figures)

101. *Asplenium Trichomanes* L.: MIYABE & TATEWAKI, in Trans. Sapporo Nat. Hist. Soc. XIII. (1933), 69.

NOM. JAP. *Chasen-shida.*

HAB. *Yezo.* Prov. Ishikari: Hassabu (S. ISE, VIII. 8, 1935); Ebishima (T. SUZUKI, VII. 1935). Prov. Kitami: R. Peichan (M. TATEWAKI, VIII. 8, 1935).

102. *Asplenium viride* HUDSON, Fl. Angl. (1762), 385; LEDEB. Fl. Ross. IV. (1853), 521; HOOK. & BAK. Syn. Fil. (1874), 195; DIELS, in ENGL. u. PR. Nat. Pfl.-fam. I.-4. (1899), 235; HEGI, Ill. Fl. Mittel-Europ. I. (1906), 27, *t. 5, fig. 3*; FED. ET FLEROW, Ill. Pl. Sib. (1909), 28, *fig. 29*; BRITT. & BR. Ill. Fl. Nor. Am. (1913), 28; MAKINO & NEMOTO, Fl. Jap., (1925), 1585; FORMIN, Fl. Sib. Or. Extr. (1930), 143; TAGAWA, in Phytotax. et Geobot. I. (1932), 310; KOMAR. Fl. USSR. I. (1934), 65.

NOM. JAP. *Awo-chasenshida.*

HAB. *S. Saghalien.* Distr. Toyohara: the upper Hareki near Konuma (Y. KIKKAWA, VIII. 12, 1932); Mt. Horoto (U. KIMOTO, VII. 2, 1935).

Yezo. Prov. Ishikari: the upper Tonashibetsu (J. OHWI, VIII. 1934).

Remarks. New to the flora of Hokkaido.

103. *Cerastium orochonorum* TATEWAKI, sp. nov.

(Orthodon, Perennia).

Perenne; caulis 10–15 cm altus, crassus, subsimplex, adscendens, tomentoso-pubescens, pilis glanduliferis immixtis. Folia crassiuscula, oblanceolata vel lanceolata, omnia uninervia, margine ciliata, utrinque hirsutiuscula, apice acuta, basin sessilia et basin versus attenuata vel attenuato-cuneata, 1–2 cm longa 2–3 mm lata; summa maxima, oblanceolato-lingulata, apice acuta. Dichasium 3–5–

[Trans. Sapporo Nat. Hist. Soc., Vol. XIV, Pt. 3, 1936]

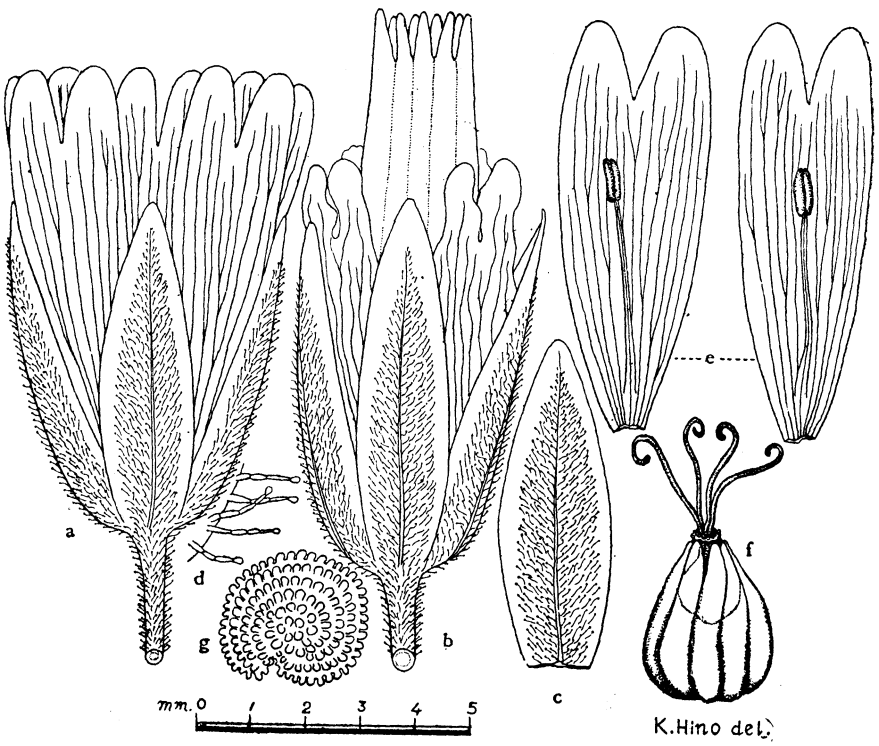

Fig. 9. *Cerastium orochonorum* TATEWAKI.

a. young flower. *b.* old flower with ripened capsule.
c. sepal. *d.* glandular hairs on the sepal (magnified).
e. petals with a stamen. *f.* ovary. *g.* seed. (magnified).

florum; rami longe pedunculati; pedunculi et pedicelli dense glanduloso-pubescentes; pedicelli suberecti vel erecto-patentes, calice multo-longiores; bracteae infimae foliaceae, oblanceolatae, bracteolatae parvae lanceolatae. Sepala 6 mm longa elliptico-lanceolata, apice obtusa vel acuta, margine albo-scariosa, parte herbaceo dorso glanduloso-pubescente. Petala oblongo-oblanceolata, 7–8 mm longa, apice lobis oblongo-rotundatis in 1/6–1/5 parte bilobato. Stamina petalis 1/3 breviora, filamentis glabris. Capsula matura calyce subduplo longior, conico-cylindicea, recta, dentibus rectis obtusis. Semina matura compresso-globosa, fusco-ferruginea, ca. 1 mm diametro, tuberculata.

NOM. JAP. *Orochon-miminagusa.* (n. n.)

HAB. *S. Saghalien.* Distr. Shikka: the upper Asase (S. SUGAWARA, VIII. 6, 1935).

104. *Melandryum Kawashimae* MIYABE ET TATEWAKI, comb. nov.

Silene Kawashimai MIYABE ET TATEWAKI, in Trans. Sapporo Nat. Hist. Soc. XIV.-2. (1935), 83.

NOM. JAP. *Karafuto-miyama-biranji.*

105. *Aconitum sachalinense* FR. SCHM. Fl. Sachal. (1868), 107; NAKAI, in Bot. Mag. (Tokyo), XXII. (1908), 134, et ibid. XXXI. (1917), 227; KOIDZUMI, Pl. Sachal. (1910), 62; MIYABE & MIYAKE, Fl. Saghal. (1915), 22, *pl. I, fig. 1–7*; KUDO, Rep. Veg. N. Saghal. (1924), 130; MAKINO & NEMOTO, Fl. Jap. ed. 2, (1931), 314.

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

Flores albi. Ovarium sparse pilosum.

NOM. JAP. *Shirobana-karafutobushi.* (n. n.).

HAB. *S. Saghalien.* Distr. Toyohara: near Konuma (U. KIMOTO, VIII. 23, 1935).

Remarks. var. Endemic.

106. *Thalictrum kemense* FRIES, Fl. Halland, (1817), 94; LEDEB. Fl. Ross. I. (1842), 13; MAXIM. Prim. Fl. Amur. (1859), 16, (var. *stipellatum* C. A. MEY.); FR. SCHM. Fl. Sachal. (1868), 101; HULT. Fl. Kamtchat. II. (1928), 134; MASAMUNE, in Journ. Jap. Bot. X. (1934), 501.

Thalictrum minus var. *elatum* MIYABE, Fl. Kuriles, (1890), 214; YABE & YENDO, Pl. Isl. Shumushu, (1904), (181); KOIDZ. Pl. Sachal. (1910), 67; MIYABE & MIYAKE, Fl. Saghal. (1915), 6, p.p.; KUDO, Contr. Fl. N. Saghal. (1923), 38, et Rep. Veg. N. Saghal. (1924), 139, (non LECOY.).

Thalictrum minus var. *kemense* FRIES, apud HUTH in Bull. Herb. Boiss. V. (1897), 1071.

Thalictrum minus var. *tenuipes* FRANCH. apud BOISS. in Bull. Herb. Boiss. VII. (1899), 587; MATSUM. Ind. Pl. Jap. II: 2. (1912), 124.

Thalictrum minus var. *nanum* KUDO, Fl. Isl. Paramushir, (1922), 109; TATEWAKI, Pl. Isl. Alaid, (1927), 15, (non LECOY.).

Thalictrum minus KOMAR. Fl. Pen. Kamtschat. II. (1929), 155, (non LINN.).

Thalictrum Thunbergii var. *tenuipes* NAKAI, in Bot. Mag. (Tokyo), XLII. (1929), 5, p. p.; TATEWAKI, List Pl. Rebun, (1934), 7; MAKINO & NEMOTO, Fl. Jap. ed. 2, (1931), 341.

Thalictrum Thunbergii TATEWAKI, List Pl. Teshio Exp. For. I. (1928), 18, p. p., Phytogeogr. Middle Kuril. (1933), 198, 227, 249, 278, et Vas. Pl. N. Kuril. (1934), 270; OHWI, Flr. Isl. Shikotan, I. (1932), 35, p. p.; TATEWAKI & KIMOTO, Fl. Isl. Kaibato, II. (1933), 234, (non DC).

Thalictrum yesoense TATEWAKI, Alp. Fl. Mt. Horonupuri, (1933), 87, (non NAKAI).

NOM. JAP. *Usuba-karamatsu.*

HAB. *Yezo.* Prov. Oshima: Fukuyama (K. MIYABE &. Y. TOKUBUCHI); Ideto-futamata (T. ISHIYAMA); summit of Ôsengendake (T. ISHIYAMA). Prov. Iburi: Mt. Muine-Tengu (I. YAMAMOTO). Prov. Ishikari: Mt. Tengu (I. YAMAMOTO); Soranuma (K. MIYABE); Mt. Gokenzan (I. YAMAMOTO); Sounkyo (K. MIYABE); Mt. Yubari (G. KOIDZUMI). Prov. Teshio: Nuporomapporo (M. TATEWAKI). Prov. Kitami: Isl. Rebun (M. TATEWAKI); Horonupuri (M. TATEWAKI).

S. Kuriles. Kunashiri: Ichibishinai (C. YENDO); Chinomichi (M. TATEWAKI); Furukamap (M. TATEWAKI). Shikotan: Anama (G. TANAKA & KENJI MIYABE); Shakotan (K. MIURA). Etorofu: betw. Toro & Naibo (M. KAMBE); Shana (KÔDA, T. KAWAKAMI, G. TANAKA & KENJI MIYABE).

M. Kuriles. Urup: Tokotan (M. TATEWAKI). Shimushir: Broughton Bay (I. KODAMA, M. TATEWAKI & TOKUNAGA). Ketoi: Nishiura (M. TATEWAKI & K. TAKAHASHI). Rashuwa: Onuma (N. SHITOMI).

N. Kuriles. Paramushir: Otmai (C. TARAO, S. YOKOYAMA); Ichamiumbetsu (S. YOKOYAMA); Tomarizaki (Y. KUDO); Kashiwabara-wan (Y. KUDO); Ruesan (Y. KUDO); Arakawa (Y. KUDO). Shumushu: (N. GUNJI, K. YENDO). Alaid: Namikawa (H. ITO & G. KOMURO).

S. Saghalien. Todomoshiri: Tomarisara (KIMOTO, MURAYAMA & TAKEE); Shimizutani (T. MIYAKE). Distr. Odomari: Tonnaicha-sando (T. MIYAKE). Distr. Honto: Shiranushi (K. MIYABE & T. MIYAGI). Distr. Ushoro: Usutomanai (K. MIYABE & T. MIYAGI); Naikotoru (T. MIYAKE); Ambetsu (T. ISHIYAMA). Distr. Motodomari: Makunkotan (K. MIYABE & T. MIYAGI, T. MIYAKE); Nupuripo (T. MIYAKE); Kashipo (ABUMIYA, HOSHINO & TAKEE); Mt. Tosso (N. HIRATSUKA, M. NAGAI & S. IWADARE). Distr. Shikka: Hamdasa (T. MIYAKE); R. Jobboroit (T. MIYAKE); Aba (H. OHTANI); Chirikoro (HOSHINO, OKADA & SUGIYAMA); Noto (HOSHINO, OKADA & SUGIYAMA).

N. Saghalien. Distr. Alexandrowsk: Pilewo (K. MIYABE & T. MIYAGI); Kanmenskoe (Y. KUDO & M. TATAWAKI). Distr. Tim: Kami-Almdan (Y. KUDO & M. TATEWAKI); Onor-Luekoff (KUDO & TATEWAKI). Distr. Schmidt Peninsula: Pilwo (KUDO & ISHIDA); Tomy (KUDO & ISHIDA).

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Korea, Amur, Mongolia, N. China, Siberia westwards to Northern Finland and eastwards to Kamtchatka, Commander Islands and Unalaska.

107. *Dicentra peregrina* MAKINO, in Bot. Mag. (Tokyo), XXII. (1908),

162; HUTCHINSON, in Kew Bull. (1921), 107.

Fumaria peregrina RUD. in Mém. Acad. St. Pétersb. I. (1809), 379, *tab. 18.*

Fumaria tenuifolia LEDEB. in Mém. Acad. St. Pétersb. V. (1812), 550.

Corydalis tenuifolia PURSH, Fl. Bor. Am. II. (1814), 462.

Diclytra tenuifolia DC. Syst. II. (1821), 110, et Prodr. I. (1824), 126.

Diclytra lachenaliaeflora DC. Syst. II. (1821), 111, et Prodr. I (1824), 126.

Corydalis lachenaliaeflora FISCH. apud DC. Syst. II. (1821), 111.

Dicentra tenuifolia LEDEB. Fl. Ross. I. (1842), 97; RGL. ET TIL. Fl. Ajan. (1859), 43; MAXIM. Prim. Fl. Amur. (1859), 37.

Dicentra lachenaliaeflora LEDEB. Fl. Ross. I. (1842), 97; TRAUTV. ET MEY. Fl. Ochot. (1856), 13; TRAUTV. in Acta Hort. Petrop. VI. (1879), 9; KURTZ, in ENGL. Bot Jahrb. XIX. (1895), 453.

Capnorchis peregrina O. KUNTZE, Rev. Gen. Pl. (1891), 15.

Dicentra peregrina FEDDE, Repert. IX. (1911), 238; N. BUSCH, in Fl. Sib. Or. Extr. I. (1913), 28; HULT. Fl. Kamtch. II. (1928) 142; KOMAR. Fl. Penins. Kamtsch. II. (1929) 162; KOMAR. & KLOB.-ALIS. Key Pl. Far East. Reg. USSR. I. (1931), 576.

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

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

DISTR. Saghalien, Ussuri, Primorskaja, Ochotsk, Ajan, Anadyr, Chukch Penins., N. Kamtschatka, and adjacent islands.

Remarks. New to the flora of Japan.

108. *Arabis media* N. BUSCH, in Fl. Sib. Or. Extr. IV. (1926), 463.

NOM. JAP. *Karafuto-miyama-hatazao.*

HAB. *S. Saghalien.* Distr. Shikka: Mt. Asase (S. SUGAWARA, VIII. 9. 1935).

DISTR. Saghalien, Eastern and Central Siberia.

Remarks. New to the flora of Japan.

109. *Lathyrus japonicus* WILLD. Sp. Pl. III: 2. (1803), 1092; FERNALD, in Rhodora, XXXIV. (1932), 178; HARA, in Bot. Mag. (Tokyo), XLIX. (1935), 793.

form. ***albiflora*** TATEWAKI, form. nov.

Flores albi.

NOM. JAP. *Shirobana-hama-endô.*

HAB. *S. Kuriles.* Isl. Kunashiri: Rurui (K. SHIRAHAMA & Y. TAKAHASHI, VII. 28, 1935).

110. *Oxytropis sachalinensis* MIYABE ET TATEWAKI, sp. nov.

Radix crassa, cylindrica, elongata, fusca. Subacaulis, petiolis et scapis longe patenterque sericeis; stipulis scariosis albo-ferrugineis uninerviis oblongo-ovatis ca. 4 mm longis intus glabris extus longe et dense sericeis. Folia 4–6-juga; foliola crasse papyracea, oblonga vel ovata, sessilia, apice acuta obtusa vel subrotundata, basi rotundata, supra sericea, subtus longe sericeo-tomentosa, margine revoluta, 4–8 mm longa, 1–3 (–4) mm lata. Scapi paulo foliis longiores, ca-

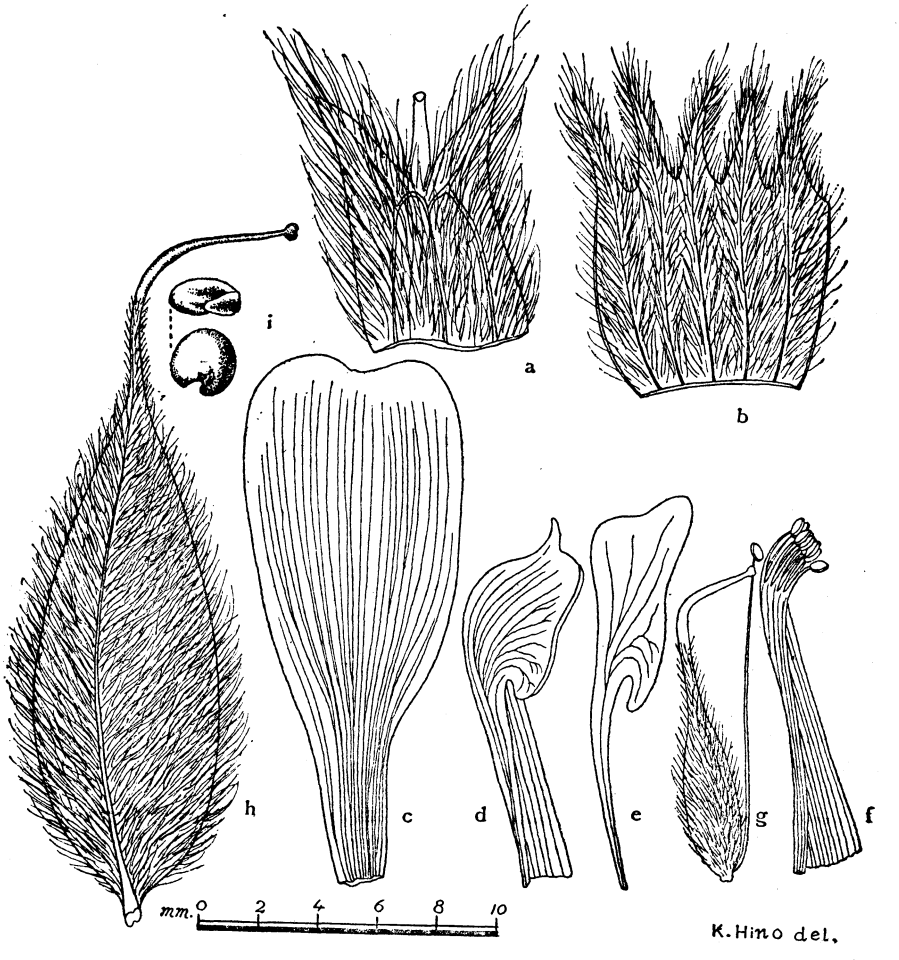

Fig. 10. *Oxytropis sachalinensis* MIYABE ET TATEWAKI
a. stipules. *b.* calyx. *c.* standard. *d.* keel. *e.* wing. *f.* stamens. *g.* ovary. *h.* ripened pod. *i.* seeds, (magnified).

pitulis (1–2) (–4)–floris. Bracteae lineares, supra glabrae, subtus longe sericeae, calyce subaequantes, uninervatae. Pedicelli breves 2–3 mm longi, longe patenterque sericei. Calyx tubulosus, sericeus, pilis longis albis nigricantibusque immixtis, dentibus lineari-lanceolatis 3–4 mm longis, tubis cylindricis ca. 6–8 mm longis. Flores purpurei. Vexillum ca. 18 mm longum, limbo oblongo-obovato, apice retusa, basi ad unguem abrupte attenuata. Carinae 12 mm longae, limbo oblique elliptico, apice rostri apiculato 1 mm longo. Ovarium subsessile, lanceolato-ellipsoideum, longe sericeum. Legumina ca. 20 mm longa, ca. 7 mm lata, sericeo-tomentosa, apice in stylo persistente longe acuminato-attenuato.

NOM. Jap. *Karafuto-oyama-no-endo.* (n. n.).

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

Remarks. The present species is related to *Oxytropis yesoensis* NAKAI, from which it is easily distinguished by the larger form, the shape of the stipule and vexillum and also of the teeth of calyx.

111. *Viola teshioensis* MIYABE ET TATEWAKI, sp. nov.

Viola nipponica MAXIM. var. *Yezoana* H. KOIDZ. in Kyoritsu Joshi Yakugaku Semmon gakko Koyukai-zasshi, V. (1936), 16, cum diagn.

NOM. JAP. *Yezo-no-awoisumire, Teshio-sumire.*

HAB. *Yezo.* Prov. Teshio: Nupuromapporo (M. TATEWAKI, VI. 4, 1928); Osajima-goe (M. TATEWAKI, VII. 12, 1928); Panke-rubeshibe (M. TATEWAKI, VII. 18, 1930); Kami-otoineppu (M. TATEWAKI, V. 19, 1933). Prov. Kitami: Mt. Shirikoma (M. TATEWAKI, VII. 12, 1931).

S. Saghalien. Distr. Motodomari: Nishiyama, Mt. Kashipo (H. ABUMIYA, Y. HOSHINO & G. TAKEE, VII. 31, 1932).

DISTR. Saghalien and Yezo.

form. ***albiflora*** TATEWAKI, form. nov.

Flores albi.

NOM. JAP. *Shirobana-teshiosumire.* (n. n.).

HAB. *Yezo.* Prov. Teshio: Kami-otoineppu (M. TATEWAKI, V. 19. 1933).

112. *Shortia magna* MAKINO, in Journ. Jap. Bot. VIII. (1933), 44; NEMOTO, Fl. Jap. Suppl. (1936), 547.

Shortia soldanelloides MAKINO, var. *magna* MAKINO, ibid. I. (1916), 8; MAKINO & NEMOTO, Fl. Jap. ed. 2, (1931), 857.

NOM. JAP. *Oh-iwakagami.*

HAB. *Yezo.* Prov. Oshima: Ichinowatari (K. MIYABE & Y. TOKUBUCHI,

VII. 15, 1890).

DISTR. S. W. Yezo and Honshu.

Remarks. New to the flora of Hokkaido.

113. *Androsace Lehmanniana* SPR. in Isis I.-9. (1817), 1289, *t. 9*; H.-MAZZT. in Not. Roy. Bot. Gard. Edinb. LXXV. (1927), 281, et in HULT. Fl. Kamtchat. IV. (1930), 53; OHWI, in Flr. Isl. Shikotan, (1932), 121; TATEWAKI, in Phytogeogr. M. Kuril. (1932), 208, et in Acta Phytotax. et Geobot. II. (1933), 90, et Fl. Isl. Rebun, (1934), 14, et in Bull. Biogra. Soc. Jap. IV.-4. (1934), 292.

NOM. JAP. *Tochinaisô, Chishima-kozakura.*

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

Remarks. New to the flora of Saghalien.

114. *Primula cuneifolia* LEDEB. in Mém. Ac. Imp. Sc. St. Pétersb. V. (1814), 522; PAX u. KNUTH, in ENGL. Pfl.-reich. IV.-237, (1905), 112; TAKEDA, in Not. Roy. Bot. Gard. Edinbg. VIII. (1913), 90, 93.

var. ***tanigawensis*** TATEWAKI, var. nov.

A typo differt, foliis rhombeo-rotundatis brevius decurrento-petiolatis.

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

HAB. *Honshû.* Prov. Kôzuke: Mt. Tanigawa (K. KAWAI, VII. 28, 1930).

115. *Nepeta subsessilis* MAXIM. var. ***yesoensis*** FR. ET SAV. Enum. Pl. Jap. II. (1879), 464; KUDO, in Mem Fac. Sc. & Agr. Taihoku Imp. Univ. II.-2. (1929), 234.

form. ***albiflora*** TATEWAKI, form. nov.

NOM. JAP. *Shirobana-yezo-misogawaso.* (n. n.).

HAB. *Yezo.* Prov. Kitami: Isl. Rishiri (S. KYÔNO, VIII. 6, 1935).

116. *Lobelia radicans* THUNB. in Trans. Linn. Soc. II. (1793), 330; C. B. CLARKE, in HOOK. f. Fl. Brit. Ind. III. (1881), 425; FORB. & HEMSL. Ind. Fl. Sin. II. (1889), 3; MATSUM. Ind. Pl. Jap. II. 2. (1912), 616; MAKINO & NEMOTO, Fl. Jap. ed. 2, (1931), 1172.

NOM. JAP. *Mizo-kakushi, Azemushiro.*

HAB. *Yezo.* Prov. Ishikari: Nagayama, (I. TANAKA, VII. 4, 1928); Barato (M. TATEWAKI, IX. 15, 1935).

DISTR. Yezo, Honshu, Shikoku, Kyushu, Liukiu, Formosa, Korea China, Java and India.

Remarks. New to the flora of Hokkaido.

117. *Lobelia sessilifolia* LAMB. in Trans. Linn. Soc. X. (1811), 260, *t. 6*; HULT. Fl. Kamtchat. IV. 1930), 152; Komar. Fl. Pen. Kamtschat. III. (1930), 117; TATEWAKI, Phytogeogr. M. Kuril. (1933), 212.

NOM. JAP. *Sawa-gikyo.*

HAB. *N. Kuriles.* Isl. Paramushir: Kashiwabarawan, (K. KISHIKAWA, VIII. 18, 1934).

Remarks. New to the flora of the N. Kuriles.

118. *Arundinella hirta* TANAKA: MIYABE & KUDO, Fl. Hok. & Saghal. II. (1931), 112.

var. ***kutcharensis*** TATEWAKI, var. nov.

Differt a *Arundinella hirta*, var. *glauca*, foliis vaginisque villoso-tomentosis.

NOM. JAP. *Kutcharo-todashiba.* (n. n.).

HAB. *Yezo.* Prov. Kushiro: Bonbonyama, Kutcharo (M. TATEWAKI, VIII. 7, 1933).

Remarks. The present variety is also closely related to *Arundinella hirta*, var. *livens*, but it differs from the latter by the pubescent and glaucous spikelets and the sparsely flowered panicle.

119. *Juncus stygius* L: OHWI, in Bot. Mag. (Tokyo), XLV. (1931), 188; MIYABE & KUDO, Fl. Hok. & Saghal. III. (1932), 306.

NOM. JAP. *Yachi-wi, Chishima-itowi.*

HAB. *S. Saghalien.* Distr. Shikka: Mt. Asase (S. SUGAWARA, VIII. 9, 1935).

Remarks. New to the flora of Saghalien.

120. *Kinugasa japonica* TATEWAKI ET SUTO, in Trans. Sapporo Nat. Hist. Soc. XIV.-1. (1935), 36.

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

A typo differt, foliis subtus tomentosis.

NOM. Jap. *Urage-kinugasasô.* (n. n.).

HAB. *Honshû.* Sapporo, cult. (C. SUTO, VI. 8, 1936), from the plant collected by PROF. H. MATSUURA at Mt. Iide, Prov. Iwashiro, in Aug. 1935.

121. *Trillium Hagae* MIYABE ET TATEWAKI, sp. nov.

Caulis 30-40 cm altus, glaber. Folia late rhombeo-rotundata, apice subito acuta vel cuspidata, 12-15 cm lata, 10-13 cm longa, sessilia, glabra. Pedicelli erecti, 2-5 cm longi, in postfloratione fere ad 8 cm longitudine accrescentes. Sepala oblongo-lanceolata, 3-4 cm longa, 1-1.7 cm lata, apice acuta vel obtusa. Petala sepalis latiora, late ovata vel ovato-rotundata, 3-4 cm longa, 2-3 cm

lata, apice obtusiuscula vel acuta, sepala subaequantia vel iis paulo longiora. Filamenta breviora, 3-4 mm longa. Anthera ca. 1 cm longa. Ovarium conicum, flavo-albidum, maculatum, apice atrorubente. Stigma breve, 2-3 mm.

NOM JAP. *Shiraoi-enreiso.* (n. n.)

HAB. *Yezo.* Prov. Iburi: Shiraoi (T. HAGA, VI. 1935, V. 1936-type in Herb. Fac. Agr. Hokkaido Imp. Univ.).

DISTR. Endemic.

Remarks. The present species is intermediate in character between *Trillium Tschonoskii* MAXIM. and *Trillium kamtschaticum* PALL. It is distinguished from the former by the larger flowers, the shorter filaments broader petals, and also by the blackish red apex of the ovary, but it is related to the same by the shape of the leaves; while it is distinguished from the latter by the broader leaves, shorter anthers, maculated ovaries and somewhat longer filaments. The writers wish to express their indeptedness to Mr. T. HAGA, who has most kindly furnished us with the material which he had used in the cytological studies.

122. *Trillium kamtschaticum* PALL. var. ***kurilense*** TATEWAKI, in MIYABE & KUDO, Fl. HOK. & Saghal. III. (1932), 343,

NOM. JAP. *Kuromi-no-obanaenreiso.*

HAB. *Yezo.* Prov. Iburi: Shiraoi (T. HAGA, VI. 1935).

Remarks. var. new to Yezo.

123. *Trillium Tschonoskii* MAXIM.: MIYABE & KUDO, Fl. Hok. & Saghal. III. (1932), 343.

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

A typo differt, ovario apice atrorubente.

NOM. JAP. *Yezo-no-miyama-enreisô.* (n. n.).

HAB. *Yezo.* Prov. Kushiro: Kawayu (M. TATEWAKI, VI. 12, 1935); Wakoto (M. TATEWAKI, V. 31, 1936).

124. *Calanthe okushirensis* MIYABE et TATEWAKI, sp. nov.

Paracalanthe reflexa MIYABE et KUDO, in Journ, Fac. Agr. Hokkaido Imp. Univ. XXVI.-3, (1932), 385, (non KUDO).

Planta gracilis, erecta, ca. 35 cm alta. Folia 4-5, erecto-patentia; lamina oblongo-elliptica, apice acuminata, basi gradatim attenuata, 15-20 cm longa, 4-5 mm lata, supra glabra, subtus sdpresse pilosa, papyracea, multinervata, petiolo stricto ca. 10 cm longo, basi dilatata. Scapus simplex vel subsimplex, e basi fasciculi foliati oriundus, aphyllus, erectus, gracilis, extus puberulus, folia superans, vaginis paucis ovatis vel oblongo-ovatis acuminatis dissitis amplectentibus,

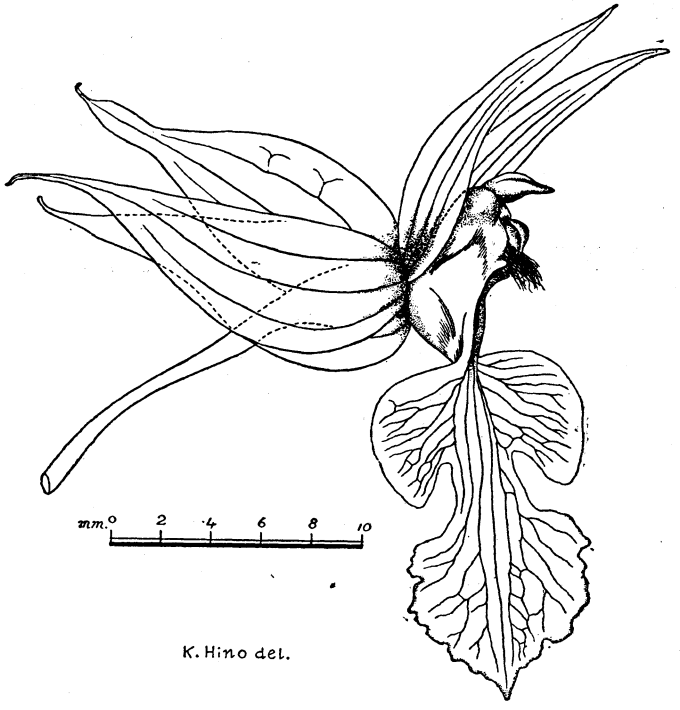

Fig. 11. *Calanthe okushirensis* MIYABE ET TATEWAKI

racemo puberulo laxo 10–15 cm longo, bracteis persistentibus lineari-lanceolatis herbaceis apice acuminatis subtus puberulis ca. 1.5–2.0 cm longis superioribus sensim brevioribus. Flores ca. 3 cm longi, pedicellis puberulis bracteis subaequantibus. Sepala et petala omnino arcuata sursum reflexa. Sepala glabra, subaequalia, ovato-elliptica, apice setaceo-acuminata, basi contracta, ca. 18 mm longa, medio 6 mm lata, 5 nervata. Petala lineari-lanceolata, apice acuminata, utrinque glabra, membranacea, ca. 13 mm longa, 1.5–2.5 mm lata. Labellum ecalcatum, ca. 15 mm. longum, trilobatum, lobo intermedio rhombeo-rotundato, apice acuminato-mucronato basi cuneato margine eroso-denticulato, lobis lateralibus minoribus oblique ovato-falcatis apice obtusis margine integris vel leviter crenulatis. Columna brevis ca. 6 mm longa, intus retrorsum hirsuta, cum ungue labelli connata. Clinandrium membranaceum concavum, polliniis omnibus aequilongis.

NOM. JAP. *Okushiri-yebine.* (n. n.)

HAB. *Yezo.* Prov. Shiribeshi: Isl. Okushiri, (K. MIYABE & Y. TOKU-

BUCHI, VIII. 28, 1890; KINGO TOGASHI, VIII. 6, 1935—type in Herb. Fac. Agr. Hokkaido Imp. Univ.).

Remarks. The present species is closely related to *Calanthe reflexa* MAXIM., from which it differs by the shape of the labellum and sepals, and also by the appressedly hairy character of the under surface of the leaves.

A NEW SPECIES OF SWERTIA

BY

MASAJI HONDA AND MISAO TATEWAKI

(本田正次・舘脇操)

Swertia crysantha HONDA ET TATEWAKI, sp. nov.

Radix simplex exilis. Caulis simplex vel subsimplex erectus glaber angulato-alatus. Folia ovato-lanceolata sessilia vel brevissime petiolata utrinque glabra vulgo 3–5 nervia apice obtusiuscula basi rotundata vel leviter cordata 2–2.5 cm longa 0.8–1.5 cm lata; inferiora minora oblongo-spathulata vel ovato-lanceolata. Flores minusculi omnes quadrifidi. Pedunculi axillares et terminales umbellato-fastigiati. Calyx fere usque ad basin 4-partitus, lobis lineari-lanceolatis 4–5 mm longis 0.5–1.5 mm latis. Corolla rotata 4-partita expansa 0.5–1 cm in diametro decidua. Corollae segmenta lutea vel flava vix basin cohaerentia patentia elliptica 4–5.5 mm longa 1.5–2 mm lata, intus infra medio foveola et sub fovea papillosa; fovea solitaria quadrata, marginibus pilis tuberculosis pauci-ciliata.

NOM. JAP. *Yakeishi-senburi*, n. n. (H. IWABUCHI).

HAB. *Honshu*: Mt. Yakeishi, Prov. Rikuchu (H. IWABUCHI, VIII. 9, 1935).

摘　　要

センブリ屬の一新種

本種はヤケイシセンブリと稱し、岩淵初郎氏が陸中燒石岳に於て發見新和名を提稱せる新種にして、チシマセンブリに類似せるも、花冠裂片の黃色なると腺体の位置形狀を異にす。

[Trans. Sapporo Nat. Hist. Soc., Vol. XIV, Pt. 3, 1936]