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MATERIALS FOR A FLORA OF HOKKAIDO. VII.

By

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and

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北海道植物志料 VII.

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76. *Carex* (Gibbae) *ponmoshiriensis* Miyabe et Kudō, sp. nov.

Rhizoma caespitosum. Culmus gracilis, 18-35 cm altus, laevis. Folia striata, plerumque culmo longiora, circa 38 cm longa, deorsum plana, 1.5 mm lata, margine glabra, sursum paulatim angustiora, longe attenuata, margine scabra. Spiculae 2-4, gymnaecandrae, *ovatae vel deltoideo-ovatae*, 7-8 mm longae, 4-6 mm latae, densiflorae, plus-minus remotae vel superiores 2-3 approximatae; bractae omnes foliaceae, longissimae usque 25 cm longae, usque 2.5 mm latae, striatae, margine deorsum glabrae sursum scabrae. Squamae *oblongo-ovatae* apice acutae vel acuminatae et aristatae, cum arista 3-3.5 mm longae, 1.2 mm latae, pallido-stramineae, margine scariosae, carina viridiuscula. Utriculi pallide straminei, *elliptico-ovati, basi late cuneati*, 4-4.5 mm longi, compressi, glabri, *utrinque distincte 5-7 nervati*, margine alati, *alis margine non-nihil fimbriatis, ore antice ad medium fisso*. Nux utriculo multo minor, *oblongo-elliptica, subcompressa, breviter stipitata*, 1.5 mm longa, 1 mm lata. Styli basi incrassati.

NOM. JAP. *Nishida-suge* (nov.).

HAB. *Hokkaidō*. Prov. Ishikari: Sorachigun, Ponmoshiri (S. Nishida!¹⁾ Aug. 10, 1916).

DISTRIB. Endemic.

A very interesting species. It is nearest to *Carex gibba* Wahlenb. in its

1) 西田 彰三。

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general habits, but it differs from the latter by its distinctly nerved utricle, smaller seed and oblong-ovate scale, and also by the shape of the utricle.

77. *Arisaema Takedai* Makino, Bot. Mag. Tokyo, XXIV. p. 73; Takeda, Bull. Misc. Inform. Kew Gard. 1912. p. 216 (in nota *Arisaema serratum* Schott).

Arisaema Takedanum Makino, in Takeda, Hakubutsu-no-Tomo. Ann. 7. No. 36. p. 72.

NOM. JAP. *Ō-mamushigusa*.

HAB. *Hokkaidō*. Prov. Oshima : Hakodate and its vicinity (F. C. Greatrex ! n. 490, June 8, July 10 & 14, 1916).

DISTRIB. Honshū at Nikkō and southern *Hokkaidō*.

The plant is easily distinguished from *A. japonicum* by the shape of the appendage of the spadix and also by the shape and colour of the spathe. The appendage is stouter and cylindrical-clavate with rounded apex, truncate at the base and often purplish below, and is provided with a short stalk. In the spathe, the tubular part is about one half the length of the lamina, which is dark-purple in colour. The tubular part as well as the lower portion of the lamina is paler coloured with many whitish or light-yellowish longitudinal streaks.

According to Mr. F. C. Greatrex, British Vice-Consul at Hakodate and an enthusiastic botanist, the plant is said to be very common in the vicinity of Hakodate. It likes to grow in open situations, and its corms grow much deeper in the soil than in the case of those of *A. japonicum*.

Dr. H. Takeda found a specimen of this plant in the Kew Herbarium collected by Maximowicz at Hakodate in the year 1861, named *Arisaema japonicum* Bl. var *atropurpureum* Engl. According to him, there is also another specimen of the same species at Kew collected at the same locality by Hodgson in 1860.

78. *Betula glandulosa* Michx. Fl. Bor. Am. II. p. 180; Britt. & Brown, Ill. Fl. I. p. 510; Winkl. Betulac. in Engl. Pflanzenreich, IV. 61. p. 73; C. K. Schn. Laubholz. I. p. 105; Koidz. in Matsum. Ic. Koishik. I. p. 49, pl. 25; Miyabe & Miyake, Fl. Saghal. p. 415.

B. nana L. *β. sibirica* Ledeb. Fl. Ross. III. p. 654; Regel, Monogr. Betul. p. 43; Trautv. et Mey. Fl. Ochot. p. 85; Fr. Schm. Fl. Sachal. p. 175.

NOM. JAP. *Hime-kamba*.

HAB. *Saghalin*. Pahmaito Detū (T. Miyake! ¹⁾ Aug. 19, 1906).

Kuriles. Paramoshiri: Chitose Bay (T. Matsubara! ²⁾ July 29, 1916).

DISTRIB. Saghalin, Northern Kuriles, Kamtschatka, Behring Island, Siberia and North America.

New to the Flora of Hokkaidō.

79. *Sceptrocnide macrostachya* Maxim. Mél. Biol. IX. p. 626. t. IX. f. 9-16; Fr. et Sav. Enum. Pl. Jap. II. p. 492; Matsum. Ind. Pl. Jap. II. 2. p. 47.

NOM. JAP. *Miyama-irakusa*.

HAB. *Hokkaidō*. Prov. Oshima: Moheji (Maximowicz! Oct. 1860); Between Kamiiso and Ōno (F. C. Greatrex! Sept. 23, 1916).

DISTRIB. Honshū and Hokkaidō.

This interesting nettle was most critically studied by Maximowicz apparently from the fresh specimens collected by himself in the vicinity of Hakodate. At our request, Mr. Greatrex has kindly sent us the living root of the plant, which seems to be remarkably long. In his letter he informed us that it would be extremely difficult to get the whole root of a plant; one would have to dig up the whole bank systematically! The sting is very violent far worse than that of *Urtica dioica*.

80. *Moehringia platysperma* Maxim. Mél. Biol. IX. p. 35; Matsum. Ind. Pl. Jap. II. 2. p. 85.

Arenaria platysperma Makino, Bot. Mag. Tokyo, VI. p. 49; Yatabe, Nihon Shokubutsu Hen, p. 232.

NOM. JAP. *Yezo-fusuma*, *Tachihakobe*.

HAB. *Hokkaidō*. Prov. Oshima: Hakodate (Maximowicz).—Prov. Iburi: Tomakomai (Y. Kudō & T. Yoshimi! ³⁾ June 25, 1915).—Prov. Ishikari: Nopporo (Y. Kudō! June 24, 1916).

DISTRIB. Hokkaidō and Honshū.

81. *Ceratophyllum demersum* L. Spec. Pl. ed. 1. p. 992; Thunb. Fl. Jap. p. 190; DC. Prodr. III. p. 73; Fr. et Sav. Enum. Pl. Jap. II. p. 482; Britt. & Brown, Ill. Fl. II. p. 46; Kawakami, Bot. Mag. Tokyo. XII. p. (225); Matsum.

1) 三宅 勉. 2) 松原太郎. 3) 吉見辰三郎.

Ind. Pl. Jap. II. 2. p. 93; Kom. Fl. Mansh. II. p. 220; Matsum. et Hayata, Enum. Pl. Formos. p. 395.

NOM. JAP. *Kingyomo*.

HAB. *Hokkaidō*. Prov. Kushiro: Lake Akan (T. Kawakami! ¹⁾ Aug. 23, 1897; J. Hanzawa! ²⁾ Aug. 5, 1904); Lake Tōro (J. Hanzawa! Aug. 8, 1904).

DISTRIB. Almost cosmopolitan.

82. *Ranunculus reptans* L. Spec. Pl. ed. 1. p. 549; DC. Prodr. I. p. 32; Ledeb. Fl. Alt. II. p. 310; Maxim. Prim. Fl. Amur. p. 20; Britt. & Brown, Ill. Fl. I. p. 75; Huth, Bull. Herb. Boiss. V. p. 1079; Kom. Fl. Mansh. II. p. 294; Matsum. Ind. Pl. Jap. II. 2. p. 120; Miyabe & Miyake, Fl. Saghal. p. 14.

Ranunculus Flammula L. var. *reptans* E. Meyer, Pl. Lab. p. 96; Fr. et Sav. Enum. Pl. Jap. II. p. 266; Yatabe, Nihon Shokubutsu Hen, p. 41; Makino, Bot. Mag. Tokyo, XIII. p. (321).

Ranunculus Flammula L. subsp. *reptans* Turcz. Baik.-Dah. I. p. 50.

Ranunculus Flammula L. var. *filiformis* Regel et Til. Fl. Ajan. p. 31.

NOM. JAP. *Ito-kimpōge*, *Matsuba-kimpōge*.

HAB. *Saghalin*. Lake Solenuiya (Miyabe & Miyagi! July 26, 1906).

Kuriles. Paramoshiri: River Toruki (T. Matsubara! July 31, 1916).

Honshū. Prov. Shimotsuke: Akanumagahara, Nikkō (K. Miyabe! July 31, 1882).

DISTRIB. Saghalin, Kuriles, Honshū, North Korea and other parts of North Asia, Europe and North America.

The species is not yet found in the main-island of Hokkaidō.

83. *Corydalis* (Eucorydalis) *curvicalcarata* Miyabe et Kudō, sp. nov.

Caulis erectus, glaberrima, 3 pedes altus. Folia caulina bipinnatim vel tripinnatim partita vel secta, segmentis ultimis bi-, tri- vel uni-pinnatisectis vel partitis, lobis elliptico-oblongis, oblongo-lanceolatis vel ellipticis, apice acutis, margine et utrinque glabris, subtus glaucis. Racemi breves, subsimplices, 4.5 cm longi, pedicellis 1 cm longis, erecto-patentibus, filiformibus, bracteis linearibus pedicello paulo vel multo brevioribus. Flores albi, cum calcare 1.6 cm longi. Sepala decidua. Petalum superius 1.6 cm longum, limbo calcari paulo longiore, 9-nervato, calcare

1) 川上瀧彌。2) 牛澤 洵。

breve, crasso, angulo recto sursum verso, apice rotundato; petalum inferius naviculare basi subdilatatatum apice mucronatum, 5-nervatum; petala lateralibus longe pedunculata, oblonga, 6 mm longa, 3 mm lata, apice rotundato-mucronata, medio leviter constricta, basi truncato-subcordata, uno latere leviter saccata, pedunculis linearibus circa 5 mm longis. Capsulae clavato-obovatae, 20-35 mm longae, 6-7 mm latae, apice subrotundatae, basi attenuatae. Stylus persistens, 4-5 mm longus. Semina nigra, nitentia, 3-3.5 mm in diametro.

NOM. JAP. *Yezo-ōkeman* (nov.).

HAB. *Hokkaidō*. Prov. Ishikari: Mt. Furano (S. Nishida! July 25, 1916).

DISTRIB. Endemic.

The high stature and glaucous foliage of the plant make one to take it at first sight to be a form of *C. gigantea* Trautv. et Mey. But by careful comparison it will easily be proved, that these two plants differ from each other in many important characters of the inflorescence, flower and fruit. The most striking character of this species is its comparatively short and stout spur, which is bent upward almost at right angles, looking like a caterpillar holding its head high up into the air.

84. *Cardamine Greatrexii* Miyabe et Kudō, sp. nov.

Caulis ascendens, subflexuosus, 18-35 cm longus, gracilis, glaber. Folia radicalia et inferiora pinnatisecta, lobo terminale *maximo, truncato-ovato*, 1-2 cm longo, 8-14 mm lato, apice rotundato, margine integro v. plus-minus undulato v. pauci-dentato, basi interdum *hastato-trilobo*, lobis *lateralibus minutis paucis vel deficientibus*; caulina breviter petiolata usque sessilia, *spathulato-lanceolata, oblanceolata vel lineari-lanceolata*, 2.5-3.5 cm longa, 6-11 mm lata, *paucis dentata vel subintegra*. Flores albi, circa 6 mm in diametro, pedicellis 3 mm longis. Sepala oblonga vel oblongo-ovata, 2 mm longa, 1-1.2 mm lata, *margine hyalina*, apice integra vel *paucis denticulata*, 3-5 nervia. Petala obovato-cuneata, apice rotundato-truncata, 4 mm longa, 2 mm lata, brevi-ungiculata. Antherae flavidae, ellipticae; filamenta basi non dilata. Ovarium lineare; stylus brevis, stigmatibus simplicibus. Pedicelli fructiferi 6-14 mm longi, gracilis, *horizontaliter patentes* vel rarius subdeflexi. Siliquae lineares, glabrae, stylo brevi et stigmate capitato coronatae. Semina *oblonga vel elliptica, exalata*.

NOM. JAP. *Oshima-tanetsukebana* (nov.).

HAB. *Hokkaidō*. Prov. Oshima : Yunokawa (F. C. Greatrex! May 15 & 30, 1916) : Hakodate (Greatrex! June 10, 1916).

DISTRIB. Endemic.

This species is named in honour of Mr. F. C. Greatrex, who has collected it for the first time, and was kind enough to furnish us with an excellent series of the flowering as well as fruiting specimens.

85. *Astilbe platyphylla* Boiss. Bull. Herb. Boiss. V. (1897) p. 684; Matsum. Ind. Pl. Jap. II. 2. p. 171.

Astilbe apetala Miyabe, MS.

NOM. JAP. *Momijibashōma*, *Birōshōma*.

HAB. *Hokkaidō*. Prov. Oshima : Nanaye, Narukagawa Valley (F. C. Greatrex! n. 524. June 26, 1916).—Prov. Hidaka : Saruru (Y. Tokubuchi! Aug. 14, 1892; Faurie, n. 10480. July 21, 1893).—Prov. Tokachi : Birō (K. Miyabe! June 23, 1884).

DISTRIB. Endemic.

This plant is remarkable for the complete absence of petals in both male and female plants. It has been known to grow only in the vicinity of the Cape Erimo, but Mr. Greatrex found it lately in the Narukagawa Valley, Nanaye, not far from Hakodate.

86. *Saxifraga* (Trachyphyllum) *Nishidae* Miyabe et Kudō, sp. nov.

Caulis basi foliis dense imbricatis obtectus, florifer *gracilis*, 4–5.5 cm altus, paucifolius, apice 1–3 florus. Folia inferiora *oblongo-cuneata*, *lineari-cuneata vel oblanceolato-cuneata*, apice *tricuspidata*, 7–8 mm longa, margine *glanduloso-ciliata*, utrinque subglabra, 3–5 nervia, coriacea; cuspibus ovato-triangularibus, apice *cartilagineo-spinosis*, cuspe media lateralibus duplo majore; caulina pauca, minora, lineari-lanceolata, apice cartilagineo-spinosa, margine glanduloso-ciliata, utrinque glabra. Pedicelli *glandulosi*, calyce longiores. Flores *albi*. Sepala basi leviter coalita, in fructu erecta, oblonga, apice acuta, 4 mm longa, trinervia, margine *glanduloso-ciliata*, utrinque glabra. Petala oblonga vel elliptica, apice subacuta, 7 mm longa, 2.5–3 mm lata, tripli-nervia, alba tamen purpureo-punctata.

NOM. JAP. *Yezo-no-kumomagusa* (nov.).

HAB. *Hokkaidō*. Prov. Ishikari : Mt. Yūbari, at Gamaiwa (S. Nishida! Aug.

7, 1916).

DISTRIB. Endemic.

It is nearly related to *Saxifraga bronchialis* L. and *S. tricuspidata* Retz. But it is easily distinguished from the former by its tricuspidate basal leaves with glandular ciliate margins and from the latter by its white flowers. It also differs from the both by having more slender stems bearing a few flowers and also by its glandular-ciliate sepals.

The plant is named after the name of its collector, Mr. Shōzō Nishida, Assistant of Botany in our College, who has been making a special study of the flora of the Yūbari mountain range for the last four years.

87. *Potentilla nivea* L. Spec. Pl. ed. 1. p. 499; Ledeb. Fl. Alt. II. p. 260 et Fl. Ross. II. p. 57; Rgl. et Til. Fl. Ajan. p. 84; Maxim. Prim. Fl. Amur. p. 97; Fr. Schm. Fl. Amg. p. 40; Kom. Fl. Mansh. II. p. 505; Makino, Bot. Mag. Tokyo, XIX. p. 87; Matsum. Ind. Pl. Jap. II. 2. p. 213; Koidz. Consp. Rosa. Jap. p. 184.

Potentilla Matsuokana Makino, Bot. Mag. Tokyo, XVI. p. 161.

NOM. JAP. *Urajiro-kimbai*.

HAB. *Hokkaidō*. Prov. Ishikari: Mt. Yūbari, at Gamaiwa (S. Nishida! Aug. 7, 1916).

DISTRIB. *Hokkaidō*, Honshū, Manchuria, China, Himalaya, Siberia, Europe and North America.

New to the Flora of *Hokkaidō*.

88. *Viola Francheti* Boiss. Bull. Soc. Bot. de Fr. XLVII. p. 321; Matsum. Ind. Pl. Jap. II. 2. p. 373.

Viola sapporensis Franch. in Sched. Herb.

NOM. JAP. *Yezo-saishin-sumire*. (nov.)

HAB. *Hokkaidō*. Prov. Oshima: Hakodate Hills (F. C. Greatrex! n. 17. May 28, June 5, 1916).—Prov. Ishikari: Between Otaru and Sapporo (Faurie, May 1885).

Kuriles. Etorofu: Sokiya (T. Kawakami! Aug. 8, 1898).

DISTRIB. Endemic.

The plant is nearly related to *Viola vaginata*, with which it may easily be

confounded. Mr. Greatrex made a careful study of the plant, and we have a pleasure to note here some of his observations. Compared with *V. vaginata*, the vagina in the present species are not so large and prominent, the rootstock more slender, and coarsely crenato-dentate leaves usually four or five proceeding from the tip of the rootstock. The flowers are purple mauve in colour and odourless; and the sepals are broad and obtuse, brownish in colour, with rounded and almost entire appendages.

89. *Viola rostrata* Pursh, Fl. Am. Sept. p. 174; DC. Prodr. I. p. 298; Britt. & Brown, Ill. Fl. II. p. 455; Boiss. in Bull. Soc. Bot. Fr. XLVII. p. 322; Makino, Bot. Mag. Tokyo, XVI. p. 137; Matsum. Ind. Pl. Jap. II. 2. p. 378.

NOM. JAP. *Nagao-sumire*.

HAB. *Hokkaidō*. Prov. Oshima : Kamiiso Hill, in open situations (F. C. Greatrex! n. 438. May 1, 1916).

DISTRIB. Northern Honshū, *Hokkaidō* and North America.

New to the Flora of *Hokkaidō*.

90. *Sium Ninsi* L. Cod. 2025; Maxim. Mél. Biol. IX. p. 18; Fr. et Sav. Enum. Pl. Jap. I. p. 181; Yabe, Rev. Umbell. Jap. p. 52; Boiss. Bull. Herb. Boiss. ser. 2. III. (1903) p. 954; Matsum. Ind. Pl. Jap. II. 2. p. 444.

NOM. JAP. *Mukago-ninjin*.

HAB. *Hokkaidō*. Prov. Oshima : Plain near Hakodate (Faurie, n. 5758. July 27, 1890); marshes near the sea, north of Hakodate (F. C. Greatrex! n. 564. Aug. 18, 1916).

DISTRIB. Southern *Hokkaidō*, Honshū and Kiushū.

91. *Helwingia japonica* Dietrich, Nacht. Gärt. Lex. III. p. 660; DC. Prodr. XVI. 2. p. 680; Fr. et Sav. Enum. Pl. Jap. I. p. 195; C. K. Schn. Handb. Laubholz. II. p. 434; Matsum. Ind. Pl. Jap. II. 2. p. 447; Wangerin, in Engl. Pflreich. IV. 229. p. 35; Rehder, Pl. Wils. II. p. 570.

Osyris japonica Thunb. Fl. Jap. p. 31.

Helwingia rusciflora Willd. Spec. Pl. IV. p. 716; Miq. Prol. Fl. Jap. p. 209; Hayata, Fl. Montana Formos. p. 104.

NOM. JAP. *Hana-ikada*.

HAB. *Hokkaidō*. Prov. Oshima : Hakodate Hills (S. Nozawa! ¹⁾ Sept. 1887).

DISTRIB. Southern Hokkaidō, Honshū, Shikoku, Kiushū, Formosa and China.

New to the Flora of Hokkaidō.

92. *Swertia japonica* Makino, Bot. Mag. Tokyo, XXIV. p. 294.

Swertia rotata Thunb. Fl. Jap. p. 115; DC. Prodr. IX. p. 134. (non L.)

Gentiana? *japonica* Schult. Syst. Veg. VI. p. 174.

Ophelia japonica Griseb. Gen. Sp. Gent. p. 332.

Pleurogyne rotata Sieb. et Zucc. in Abh. Akad. Muench. IV. 3. p. 159; Miq. Prol. Fl. Jap. p. 288; Fr. et Sav. Enum. Pl. Jap. I. p. 324. (non Griseb.)

Ophelia diluta Maxim. in Mél. Biol. IX. p. 399 (quod pl. jap.); Fr. et Sav. Enum. Pl. Jap. II. p. 450. (non Ledeb.)

Swertia chinensis a vulgaris Makino, Bot. Mag. Tokyo, XVII. p. 55.

NOM. JAP. *Semburi*, *Tōyaku*.

HAB. *Hokkaidō*. Prov. Oshima : Shirikishinai (T. Kawakami! Oct. 1900); a valley on the slopes of Mt. Esan (S. Kwan! ²⁾ Oct. 30, 1916).

DISTRIB. Hokkaidō and Honshū.

New to the Flora of Hokkaidō.

93. *Cynanchum atratum* Bunge, Enum. Pl. Chin. Bor. n. 251; Kom. Fl. Mansh. III. p. 287; Matsum. et Hayata, Enum. Pl. Formos. p. 237; Nakai, Fl. Korea. II. p. 96; Matsum. Ind. Pl. Jap. II. 2. p. 509.

Vincetoxicum atratum Morr. et Dcne. in Bull. Acad. Brux. (1836) p. 17; DC. Prodr. VIII. p. 523; Maxim. Prim. Fl. Amur. p. 195 et Mél. Biol. IX. p. 789; Miq. Prol. Fl. Jap. p. 59; Fr. et Sav. Enum. Pl. Jap. I. p. 317.

NOM. JAP. *Funabarasō*.

HAB. *Hokkaidō*. Prov. Oshima : Yunokawa, near Hakodate (F. C. Greatrex! n. 212. June 25, July 1, 1916).

DISTRIB. Hokkaidō, Honshū, Kiushū, Formosa, Korea, North China, Manchuria and Amurland.

New to the Flora of Hokkaidō.

94. *Phtheirospermum japonicum* Kanitz, Anthoph. Jap. p. 12 (1878);

1) 野澤俊次郎. 2) 菅貞仁.

Makino, Bot. Mag. Tokyo, XIII. p. (111) et XV. p. 72; Matsum. Ind. Pl. Jap. II. 2. p. 568; Hurumi, Bot. Mag. Tokyo, XXX. p. 134.

Gerardia japonica Thunb. Pl. Jap. p. 251.

Phtheirospermum chinense Bunge, in Fisch. et Mey. Ind. Sem. Hort. Peterop. I. p. 35; Maxim. Prim. Fl. Amur. p. 208; Miq. Prol. Fl. Jap. p. 53; Fr et Sav. Enum. Pl. Jap. I. p. 350; Kom. Fl. Mansh. III. p. 440; Nakai, Fl. Korea. II. p. 123.

NOM. JAP. *Koshiogama*.

HAB. *Hokkaidō*. Prov. Oshima : Todohokke (K. Miyabe! Aug. 25, 1890).—Prov. Iburi : Oshamanbe (T. Kawakami! July 27, 1892); Numanohata (J. Hanzawa! Aug. 23, 1899); Tomakomai (J. Hanzawa! Aug. 21, 1899); Chitose (K. Miyabe! Aug. 11, 1890; Aosa-sandō (Y. Tokubuchi! Aug. 15, 1893); Yūbutsu (T. Watase!¹⁾ 1883; K. Miyabe! Aug. 22, 1884).—Prov. Hidaka : Horoizumi (Y. Tokubuchi! Aug. 20, 1892).

DISTRIB. *Hokkaidō*, Honshū, Shikoku, Korea, Manchuria, China and Amurland.

95. ***Lonicera gracilipes*** Miq. Prol. Fl. Jap. p. 158; Fr. et Sav. Enum. Pl. Jap. I. p. 205 et II. p. 388; Maxim. Mél. Biol. X. p. 76; Dippel, Handb. Laubholz. I. p. 257; Makino, Bot. Mag. Tokyo, XII. p. (17); C. K. Schn. Handb. Laubholz. II. 2. p. 692.

var. ***glabra*** Miq. l. c. p. 159; Rehder, Syn. Lonic. p. 66; Matsum. Ind. Pl. Jap. II. 2. p. 692.

NOM. JAP. *Uguisukagura*.

HAB. *Hokkaidō*. Prov. Oshima : Hakodate Hills (F. C. Greatrex! n. 473. June 10, 1916).

DISTRIB. *Hokkaidō* and Honshū.

New to the Flora of *Hokkaidō*.

96. ***Cacalia bulbifera*** Matsum. Shokubutsu Mei-I, ed. 3. p. 56, n. 582 et Ind. Pl. Jap. II. 2. p. 632; Koidz. Bot. Mag. Tokyo, XXIV. p. 153; Kudō, *ibidem* XXIX. p. 228.

1) 渡瀬寅次郎。

Senecio bulbiferus Maxim. Mél. Biol. IX. p. 295 ; Fr. et Sav. Enum. Pl. Jap. I. p. 251.

NOM. JAP. *Tamabuki, Iwabuki.*

HAB. *Hokkaidō.* Prov. Oshima : Yunokawa Valley (F. C. Greatrex ! Sept. 16, 1916).

DISTRIB. Southern Hokkaidō and Honshū.

New to the Flora of Hokkaidō.

Mr. Greatrex found this plant only at one spot on the wooded bank, which forms the east boundary of the Yunokawa Valley about four miles up from the Yunokawa Village.

97. *Cirsium Greatrexii* Miyabe et Kudō, sp. nov.

Radix perennis *repens*. Caulis *elatus, 8-10 pedes altus, simplex, apice tamen leviter ramosus*, distincte striatus, glaber. Folia omnia basi ad caulem *non decurrentia*; radicalia spathulato-oblancheolata, apice acuminata, basi longe attenuata, 28 cm longa, 8 cm lata, irregulariter et leviter pinnatifida, utrinque subglabra vel subtus parce arachnoidea, margine spinulosa; *serris angustis vel ovato triangularibus, spinis erectis vel incurvis*; caulina inferiora petiolata, radicalia subconformia, minora, 13-16 cm longa; superiora *sessilia, oblongo-lanceolata, spinoso-serrata*, 7-13 cm longa, 2.5-3.5 cm lata, utrinque subglabra, subtus pallidiora, margine spinulosa. Inflorescentia corymbosa, bracteis foliaceis, lineari-lanceolatis. Capita 13-20, *erecta*, 2.5-3 cm in diametro. Squamae *parce arachnoideae vel glabratae, apice spinosae, basi dilatatae, erecto-patentes*; extremae *sublancheolatae*, plerumque 7-10 mm longae, 2 mm latae; intimae *subulatae*, 13-15 mm longae, 3 mm latae. Corolla purpurea, *limbo 11-13 mm longo, tubo filiforme circa 10 mm longo*. Styli antheras superantes. Pappi circa 16 mm longi, fulvi.

NOM. JAP. *Ōrwa-azami.* (nov.)

HAB. *Hokkaidō.* Prov. Oshima : Hakokate (F. C. Greatrex ! Aug. 29 and Sept. 7, 14, 1916).

DISTRIB. Endemic.

This is a remarkable species which could not be placed in any known section of the genus. The creeping rhizome and general appearance make it appear to have a close relation to *Cirsium arvense*, but the characters of the involucre bracts and flowers are totally different from it.

We have a pleasure of naming the thistle also after its collector, Mr. F. C. Greatrex.

98. *Cirsium pexum* Nakai, Bot. Mag. Tokyo, XXVI. p. 365.

Cnicus suffultus Maxim. *a pexus* Maxim. Mél. Biol. IX. p. 315; Fr. et Sav. Enum. Pl. Jap. I. p. 259.

Cnicus pexus Fr. et Sav. l. c. II. p. 410.

NOM. JAP. *Tsukushi-kuruma-azami*.

HAB. *Hokkaidō*. Prov. Oshima : Hakodate (F. C. Greatrex! July 3, Oct. 5, 1916).

DISTRIB. *Hokkaidō* and Honshū.

New to the Flora of *Hokkaidō*.

99. *Cirsium yezoense* Nakai, Bot. Mag. Tokyo, XXVI. p. 374. (non Makino).

Cnicus yezoensis Maxim. Mél. Biol. IX. p. 328; Fr. et Sav. Enum. Pl. Jap. I. p. 261 et II. p. 415.

NOM. JAP. *Benkei-azami* (nov.).

HAB. *Hokkaidō*. Prov. Oshima : Hakodate (Albrecht; F. C. Greatrex! n. 323 a. Sept. 29, 1916); Moheji (Maximowicz, Oct. 1860).

DISTRIB. Endemic.

Remarkable for its enormous size, especially of its radical leaves, which measure one and half to two feet in length and one foot in breadth.

100. *Senecio nikoensis* Miq. Prol. Fl. Jap. p. 114; Maxim. Mél. Biol. VIII. p. 14; Fr. et Sav. Enum. Pl. Jap. I. p. 251; Matsum. Ind. Pl. Jap. II. 2. p. 665.

NOM. JAP. *Sawagiku*, *Horogiku*.

HAB. *Hokkaidō*. Prov. Ishikari : Nopporo (Y. Kudō! Sept. 3, 1915).—Prov. Iburi : Sobetsu (M. Date! ¹⁾ Sept. 22, 1894).—Prov. Hidaka : Shizunai (T. Kawakami! 1900); Saruru (Y. Tokubuchi! Aug. 13, 1892).

DISTRIB. *Hokkaidō*, Honshū, Shikoku and Tsushima.

Botanical Institute, College of Agriculture,

Tōhoku Imperial University, Sapporo, Hokkaidō.

December 15, 1916.

1) 伊達宗經。

摘 要

76. *Carex ponmoshiriensis* Miyabe et Kudō. にしだすび (新稱)

石狩國空知郡ポンモシリ沼地に生ず。形狀及性質よくますくさに類す。其區別の要點は果囊の橢圓狀卵形にして明かに五脈乃至七脈を有し、其鱗片は長橢圓狀卵形且種子の小形なることなり。西田彰三氏の採集にかゝる。

77. *Arisaema Takedai* Makino. おほまむしぐさ。

函館在勤英國副領事エフ、シー、グレートレツクス氏之を函館及其附近に於て採集せり。武田久吉氏によれば同所に於て己に約五十五年以前ホジソン及マキシモウキツチ兩氏の採集にかゝる標本英國キュー腊葉室に保存せられありと云ふ。てんなんせうに比するに其肉穗花序の附屬物は圓壩狀棍棒形にして太く下方は通常帶紫色基部截形をなす。其佛焰苞の葉狀部は濃紫色にして其長さ筒部に倍す。武田氏は之を日光にて採集せり。

78. *Betula glandulosa* Michx. ひめかんば。

本種は從來樺太の北部幌内原野に於て採集せられたるのみなりしが本年北海道廳技師松原太郎氏之を千島幌延島に於て採集せられたり。

79. *Sceptrocnide macrostachya* Maxim. みやまいらくさ。

本道に於ては函館附近に於てのみ知らる。此種類はむかごいらくさに於けるが如く葉は互生し激烈なる刺毛を有するも莖は高く「むかご」を生ぜざるにより容易に區別し得べし。又根は極めて長し。

80. *Moehringia platysperma* Maxim. えぞふすま。たちはこべ。

本道に於ては渡島、膽振及石狩等の諸國に産す。一見はこべに類似するも花瓣は全縁にして其長さ萼片の半分に等しきことにより容易に區別し得べし。

81. *Ceratophyllum demersum* L. きんぎよも。

本道に於ては釧路國阿寒湖及釧路湖に産す。

82. *Ranunculus reptans* L. いときんばうげ。まつはきんばうげ。

從來樺太及び本州に於て産することを知られたりしに本年松原太郎氏之を千島幌延島に於て採集せらる。

83. *Corydalis curvicalcarata* Miyabe et Kudō. えぞおほけまん (新稱)

けまん屬に於てはからふとねほけまんと同じく本邦産中尤も大なるものにして其高さ三尺に達す。花は白色。距は花の長さの半分に於て太く上方に殆んど直角をなして屈曲す。果實は棍棒狀倒卵形にして大形長さ三十五「セメ」に達するものあり。依りて容易にからふとねほけまんと區別し得べし。西田彰三氏本年始めて之を富良野岳に於て採集す。

84. *Cardamine Greatrexii* Miyabe et Kudō. をしまたねつけはな (新稱)

函館及其附近に於てグレートレツクス氏之を採集す、好んで陽地に生ず。在來の種類にして本種に相當するものなきを以て新種と認め以て採集者の名を採り種名とせり。

85. *Astilbe platyphylla* Boiss. もみぢはしようま。びろをしようま。

とりあししようま屬中本種の如く花瓣を全く欠如するものは本邦産の種類中其類を見ず。從來本種は

襟裳岬附近にのみ産することを知られたりしに本年グレートレツクス氏之を七飯山中に得らる。分布上面白き事實とす。

86. *Saxifraga Nishidae* Miyabe et Kudō. えぞくもまどさ。(新稱)

本種は西田彰三氏夕張岳基岩にて採集す。其形状しこたんさうに類すと雖も其葉の先端三裂せること莖の纖弱にして一個乃至三個の花を着生すること及萼片に有腺毛茸あることにより容易に區別し得べし。新種と認め西田氏の名を採りて種名となす。

87. *Potentilla nivea* L. うらじろきんばい。

本邦に於ては從來本州中央高山に産するものとして知られたるものなるも本年西田氏により夕張岳基岩にて發見せられたり。

88. *Viola Francheti* Boiss. えぞさいしんすみれ。(新稱)

本種は頗るすみれさいしんに類似し往々之と混同し易すきも其花は紫紅色にして香氣なく、萼片は鋭頭にして褐色を帯び其附屬物は全縁、根出葉は四五個叢生すること等により容易に區別し得べし。本種は渡島及石狩兩國及千島樺捉島に産し本道以外に未だ産するを知らず。

89. *Viola rostrata* Pursh. ながをすみれ。

本種は本道に於て始めて發見せられたるものにして渡島國上磯山に生ず。

90. *Sium Ninsi* L. むかごにんじん。

函館灣北部の沼地に生ず。

91. *Helwingia japonica* Dietrich. はないかだ。

野澤俊次郎氏本種を函館山に於て採集せり。

92. *Swertia japonica* Makino. せんぶり。たうやく。

本道に於ては渡島國恵山附近に生ず。

93. *Cynanchum atratum* Bunge. ふなばらさう。

本種は青森附近にまで分布するものなりしが本年始めてグレートレツクス氏之を渡島國湯の川に得たり。

94. *Phtheirospermum japonicum* Kanitz. こしほがま。

本道に於ては渡島、膽振、日高等の諸國に産す。

95. *Lonicera gracilipes* Miq. var. *glabra* Miq. うぐひすかぐら。

本道に於ては未だ本種の野生することを知られざりしがグレートレツクス氏本年始めて之を函館山に於て採集せり。

96. *Cacalia bulbifera* Matsum. たまぶき。いはぶき。

本種は本州北部まで分布することは既知の事實なるもグレートレツクス氏本年之を湯の川上流に於て採集せられたり。

97. *Cirsium Greatrexii* Miyabe et Kudō. おほいはあざみ(新稱)

本種はえぞのきつねあざみに類似するも之れより強大にして高さ一丈に達するものあり、莖は單一なるも上部に於て僅に分枝す。總苞の鱗片は稍絨形又は披針形にして先端は有刺鋭尖基部は廣がり、直立斜上す。花冠の管部は唇部より稍短きこと等によりて容易に區別し得べしグレートレツクス氏の採集にかゝり新種とす。和名ねほいはあざみは同氏の姓に因みて命名したるものなり。

98. *Cirsium pexum* Nakai. つくしくるまあざみ。

グレートレツクス氏之を函館にて採集せり。

99. *Cirsium yezoense* Nakai. べんけいあざみ。(新稱)

本道産あざみ屬中最も強大なるものにして特に其根葉の如きは長さ二尺巾一尺に達するものあり。渡島國に産することを知らるゝのみなり。

100. *Senecio nikoensis* Miq. さばぎく。ほろぎく。

本道に於ては石狩、膽振、日高等の諸國に生ず。

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