HOKKAIDO UNIVERSITY

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MATERIALS FOR A FLORA OF HOKKAIDO. VIII.

By

KINGO MIYABE

and

YŪSHUN KUDŌ.

北海道植物志料 VIII.

宮部金吾
工藤祐舜

101. Dryopteris crenulato-serrulata C. Chr., Ind Fil. p. 259.

Athyrium crenulato-serrulatum Makino, Bot. Mag. Tokyo XIII. p. 26; Matsum. Ind. Pl. Jap. I. p. 293.

Phegopteris crenulato-serrulata Makino, Bot. Mag. Tokyo XVII. p. 78.

Asplenium crenulato-serrulatum Makino, Bot. Mag. Tokyo XIII. p. (35).

NOM. JAP. *Ō-miyama-inuwarabi.*

HAB. *Hokkaidō.* Prov. Iburi : Mt. Tarumai (Y. Takenouchi![1] June 30, 1912); near the source of River Azuma (C. Yendō![2] July 10, 1895); Mt. Makkari-nupuri (Y. Takenouchi! Aug. 1, 1912).—Prov. Kitami : Shari-sandō (K. Miyabe! July 23, 1884).

DISTRIB. Hokkaidō and Honshū.

New to the Flora of Hokkaidō.

102. Dryopteris (Eudryopteris) **okushirensis** Miyabe et Kudō, sp. nov.

Rhizoma abbreviatum, dense caespitosum. Stipites 27 cm longi, multi-sulcati, parte inferiore nigri, paleisque castaneis ovato-lanceolatis vel late ovato-lanceolatis dense obtecti, parte superiore straminei, paleisque pallide castaneis lineari-lanceolatis parce vestiti. Frondes herbaceae, oblongo-lanceolatae, abrupte acuminatae, 65 cm longae, basi 4 cm, medio 21 cm latae, simpliciter pinnatae : rachis straminea, striata, castaneo-punctata, paleis pallide castaneis subulatis vel lineari

1) 竹内叔雄 2) 遠藤千尋

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bus dense vel parce obtecta : pinnae sessiles, utrinsecus usque 23 a rachi liberae, supremae tantum coalitae, oblongo-lanceolatae, basi truncatae vel oblique truncatae, rachi sub-alato-decurrentes apice sensim acuminatae, 6–11 cm longae, supra glabrae, subtus praeter nervas paleaceae, margine aequaliter serrato-crenatae; venae pinnatae. Sori parvi, numerosi, plerumque 3 utrinsecus venas, prope margines despositi. Indusium orbiculari-cordatum, maturum contractum, margine integrum.

Nom. Jap. *Okushiri-iwahego.* (nov.).

Hab. *Hokkaidō.* Prov. Shiribeshi : Isl. Okushiri : by the source of a stream, between Tsurikake and Poronai (Y. Kudō! n. 2178, Aug. 4, 1816).

Distrib. Endemic plant!

This species is nearly related to *Dryopteris cycadena* C. Chr. as well as to *Dryopteris hirtipes* O. Ktze. But it is easily distinguished from both of them by its smaller sori, which are arranged near the margins of pinnae, as well as by its brown scales.

103. Athyrium crenatum Rupr., Nyland. Spicil. Pl. Fenn. II. (1844) p. 14; Fr. Schm. Fl. Sachal. (Russian edition) p. 225; H. Chr. Fernk. d. Erde p. 225; Diels, in Engl. Nat. Pfl.-Fam. I. 4. p. 224; Kom. Fl. Mansh. I. p. 135; C. Chr. Ind. Fil. p. 140; Miyabe & Miyake, Fl. Saghal. p. 631.

Aspidium crenatum Sommerf., Veg. Ak. Hand. (1834) p. 104.

Asplenium crenatum Fries, Summa Veg. I. p. 253; Hook. et Bak. Syn. Fil. p. 224; Ledeb. Fl. Ross. IV. p. 518; Rgl. et Til. Fl. Ajan. p. 128; Maxim. Prim. Fl. Amur. p. 340; Fr. Schm. Fl. Amg. p. 74; Korsh. Acta Hort. Peterop. XII. p. 427.

Athyrium mite H. Chr., Bull. Acad. Geogr. Bot. Mans. (1909) p. 36; C. Chr. Ind. Fil. Suplement. p. 15.

Nom. Jap. *Miyamashida.*

Hab. *Hokkaidō.* Prov. Ishikari : Garugawa (Y. Takenouchi! June 26, 1912).

Saghalin. Ōdomari-district : Kimonai (U. Faurie, n. 317! Sept. 1908).—Shikka-district : Higashiyama (T. Miyake! Aug. 28, 1906); Buriu (T. Miyake! Aug. 24, 1906).

Distrib. Saghalin, Hokkaidō, Honshū, Manchuria, Amurland, Dahuria, Siberia, Kamtschatca and Europe.

We have a cotype specimen of this interesting fern collected at Kimonai, Saghalin by Faurie, which was described by H. Christ as a new species under the name "*Athyrium mite*". We are unable to separate it from *Athyrium crenatum* Rupr. by any constant characters.

104. Anogramma Makinoi H. Christ, in C. Chr. Ind. Fil. p. 58; Nakai, Bot. Mag. Tokyo XXVIII. p. 89.

Gymnogramme Makinoi Maxim., *in litt. apud* Makino, Bot. Mag. Tokyo VIII. p. 481, t. 9, et *ibidem* IX. p. (246); H. Christ, Bull. Herb. Boiss. (1896) p. 647; Matsum. Ind. Pl. Jap. I. p. 308.

NOM. JAP. *Karakusa-shida.*

HAB. *Hokkaidō.* Prov. Ishikari : Jōzankei (Seiya Itō![1] Oct. 10, 1905); Mt. Teine, at Takinosawa (M. Takenouchi![2] Sept. 7, 1917); Kamuikotan (Faurie).

DISTRIB. Hokkaidō, Honshū, Shikoku, Hallaisan (Korea).

105. Selaginella involvens Spring., Monogr. II. p. 63; Milde, Fil. Europ. et Atl. p. 268; Miq. Prol. Fl. Jap. p. 349; Fr. et Sav. Enum. Pl. Jap. II. p. 200; Korsh. Acta Hort. Peterop. XII. p. 425; Kom. Fl. Mansh. I. p. 165; Diels, Fl. C. China p. 211; Palib. Consp. Fl. Korea. III. p. 39; Hieron., in Engl. Nat Pfl.-Fam. I. 4. p. 676; Yabe, Bot. Mag. Tokyo XVII. p. 69; Matsum. Ind. Pl. Jap. I. p. 361; Nakai, Fl. Korea. II. p. 424.

Lycopodium circinale Thunb. Fl. Jap. p. 341 (non L.).

Selaginella pulvinata Maxim. Prim. Fl. Amur. p. 335; Rgl. Tent. Fl. Ussuri. p. 175.

form. **minor** Milde, *l. c.* p. 269.

NOM. JAP. *Iwa-hiba, Iwa-matsu, Iwa-goke.*

HAB. *Hokkaidō.* Prov. Shiribeshi : Isl. Okushiri, Mt. Kamui (Y. Kudō! n. 2289, Aug. 5, 1916).

DISTRIB. Hokkaidō, Honshū, Shikoku, Kiushū, Formosa, Korea, Manchuria, Amurland, Ussuri-region, Eastern Mongolia, North and Central China, Himalaya, Philippin and Java.

It was quite unexpected to find this Selaginella in Hokkaidō. It was found

1) 伊藤誠哉 2) 竹内亮

on the rocky summit of Mt. Kamui, in the Island of Okushiri, growing together with lichens and mosses. The plant is said to grow also on the rocky cliffs near Tsurikake and some other places in the same island.

The Island Okushiri, bathed by a warm branch current of the Kuroshiwo, has a mild climate. As a consequence, among its flora, we find many interesting southern elements, wnich are either very rare or entirely unknown in the mainland of Hokkaidō. As examples, we may cite *Cymbidium virens* Lindl., *Lonicera strophiophora* Franch., *Dryopteris lacera* O. K. var. *subtripartita* Miyabe & Kudō, and *Ardisia japonica* Bl.

106. Cyperus difformis L. Spec. Pl. ed. 2. p. 61; Kunth, Enum. Pl. II. p. 38; Ledeb. Fl. Ross. IV. p. 242; Maxim. Prim. Fl. p. 297; Rgl. Tent. Fl. Ussur. p. 159; Miq. Prol. Fl. Jap. p. 73; Fr. et Sav. Enum. Pl. Jap. II. p. 104; Clarke, in Hook. f. Fl. Brit. Ind. VI. p. 599 et Forb. et Hemsl. Ind. Fl. Sin. III. p. 210; Kom. Fl. Mansh. I. p. 331; Matsum. Ind. Pl. Jap. II. 1. p. 140; Nakai, Fl. Korea. II. p. 286 et Bot. Mag. Tokyo XXVI. p. 190.

Cyperus Goeringii Steud. Syn. II. p. 24.

Nom. Jap. *Tama-gayatsuri.*

Hab. *Hokkaidō.* Prov. Ishikari : Teine (K. Kondō![1] Sept. 26, 1906); Hassabu (M. Takenouchi! June 7, 1917).

Distrib. Hokkaidō, Honshū, Kiushū, Formosa, Korea and widely distributed throughout tropical and temperate regions of Asia, Europe and Africa.

107. Juncellus serotinus C. B. Clarke, in Hook. f. Fl. Brit. Ind. VI. p. 594 et Forb. & Hemsl. Ind. Fl. Sin. III. p. 208; Matsum. Ind. Pl. Jap. II. 1. p. 154; Nakai, Fl. Korea. II. p. 286 et Bot. Mag. Tokyo XXVI. p. 199.

Cyperus serotinus Rottb. Desc. et Ic. Gram. p. 31; Kunth, Enum. II. p. 19; Diels, Fl. C. China. p. 227; Kom. Fl. Mansh. I. p. 332.

Cyperus japonicus Miq. Prol. Fl. Jap. p. 72; Fr. et Sav. Enum. Pl. Jap. II. 103.

Cyperus serotinus Rottb. var. *depauperata* Fr. et Sav. *l. c.* p. 102.

Nom. Jap. *Mizu-gayatsuri, Ushi-gayatsuri.*

Hab. *Hokkaidō.* Prov. Shiribeshi : Yoichi (Y. Tokubuchi! Aug. 7, 1894); Zenibako (Y. Tokubuchi! Sept. 15, 1869).—Prov. Ishikari : Sapporo (S. Tanou-

1) 近藤金吾

chi![1] Aug. 1878); Garugawa (G. Yamada![2] Aug. 12, 1896); Bannaguro (K. Miyabe! Aug. 23, 1885).—Prov. Hidaka: Shimokebo (Y. Tokubuchi! Aug. 24, 1890).

DISTRIB. Hokkaidō, Honshū, Shikoku, Kiushū, Formosa, Korea, Manchuria, China, India and Europe.

108. Pycreus sanguinolentus Nees, in Linnaea IX. p. 283; C. B. Clarke, in Hook. f. Fl. Brit. Ind. VI. p. 590 et Forb. et Hemsl. Ind. Fl. Sin. III. p. 206; Matsum. et Hayata, Enum. Pl. Formos. p. 469; Matsum. Ind. Pl. Jap. II. 1. p. 158; Nakai, Fl. Korea. II. p. 285 et Bot. Mag. Tokyo XXVI. p. 202.

Cyperus sanguinolentus Vahl, Enum. II. p. 322; Kunth, Enum. II. p. 7; Fr. et Sav. Enum. Pl. Jap. II. p. 102; Kom. Fl. Mansh. I. p. 334.

Cyperus flavescens L. *β rufo-marginata* Schrenk, Enum. I. p. 3; Rgl. Tent. Fl. Ussur. p. 158.

Cyperus sanguinolentus Vahl, var. *spectabilis* Makino, Bot. Mag. Tokyo XIX. p. 144.

Cyperus Eragrostis Vahl, var. *spectabilis* Makino, Bot. Mag. Tokyo VI. p. 47.

NOM. JAP. *Kawara-sugana, Shide-gayatsuri.*

HAB. *Hokkaidō.* Prov. Oshima: Between Kobui & Todohokke (K. Miyabe! Aug. 25, 1890).—Prov. Iburi: Chitose (K. Miyabe! Aug. 11, 1890).—Prov. Ishikari: Sapporo (K. Miyabe! Sept. 1894).—Prov. Tokachi: Birō (M. Nakamura![3] Aug. 5, 1889).

DISTRIB. Hokkaidō, Honshū, Shikoku, Kiushū, Korea, Tropical and Temperate Asia, Abyssinia, Australia.

109. Scirpus mucronatus L., Spec. Pl. ed. 1. p. 50; Kunth, Enum. III. p. 161; Ledeb. Fl. Ross. IV. p. 247; Miq. Prol. Fl. Jap. p. 75; Clarke, in Hook. f. Fl. Brit. Ind. VI. p. 657 et Forb. et Hemsl. Ind. Fl. Sin. III. p. 252; Diels, Fl. C. China p. 228; Matsum. Ind. Pl. Jap. II. p. 163; Matsum. et Hayata, Enum. Pl. Formos. p. 489.

Scirpus mucronatus L. var. *subleiocarpa* Fr. et Sav. Enum. Pl. Jap. II. p. 112.

NOM. JAP. *Kan-garei.*

HAB. *Hokkaidō.* Prov. Oshima: Junsainuma (K. Miyabe! Aug. 9, 1881 & Sept. 27, 1899; Y. Tokubuchi! Aug. 17, 1888).—Prov. Shiribeshi: Yoichi (Y.

1) 田内捨六 2) 山田玄太郎 3) 中村守一

Tokubuchi! Aug. 7, 1894).—Prov. Ishikari : Horomui (G. Yamada! Sept. 11, 1899); Sapporo (K. Miyabe! Aug. 25, 1885; Shiraishi (Y. Tokubuchi! Aug. 20, 1894).—Prov. Iburi : Usu (K. Miyabe! Aug. 15, 1890).

DISTRIB. Hokkaidō, Honshū, Shikoku, Kiushū, Formosa, Korea, China, India, warmer part of Asia, Madagascar, Europe and Australia.

110. Scirpus erectus Poir., in Lamb. Encycl. VI. p. 761; Clarke, in Hook. f. Fl. Brit. Ind. VI. p. 656 et Forb. et Hemsl. Ind. Fl. Sin. III. p. 248 et Bull. Intern. Geogr. Bot. (1904) p. 201; Diels, Fl. C. China p. 228; Kom. Fl. Mansh. I. p. 344; Matsum. Ind. Pl. Jap. II. 1. p. 161; Matsum. et Hayata, Enum. Pl. Formos. p. 488; Nakai, Fl. Korea. II. p. 292.

Scirpus debilis Pursh, Fl. Am. Sept. I. p. 55; Kunth, Enum. Pl. II. p. 159; Britt. & Brown, Ill. Fl. I. p. 264.

Scirpus juncoides Roxb. Fl. Ind. p. 216; Kunth, *l. c.* p. 160.

NOM. JAP. *Hotarui.*

HAB. *Hokkaidō.* Prov. Iburi : Oshamambe (Y. Tokubuchi! Aug. 19, 1888). —Prov. Kushiro : Shakubetsu (M. Nakamura! Aug. 16, 1886).

DISTRIB. Hokkaidō, Honshū, Shikoku, Kiushū, Liukiu, Formosa, Korea, Manchuria, China, Tropical Asia, India, Madagascar, Australia, North America.

111. Carex flaccidior (Fr. Schm.)

Carex eleusinoides, var. *flaccidior* Fr. Schm. Fl. Sachal. p. 196. (1868).

Carex Augustinowiczii Meisn. apud Korsh., Acta Hort. Peterop. XII. p. 411 (1892) et XVIII. p. 345; Franch. Car. As. p. 132; Kom. Fl. Mansh. I. p. 370; Matsum. Ind. Pl. Jap. II. 1. p. 100; Kük. Cyp.-Car. p. 389; Nakai, Fl. Korea. II. p. 313; Miyabe et Miyake, Fl. Saghal. p. 540.

Carex bidentata Franch. in Bull. Soc. Phil. Paris 8 Sér. VII. p. 41 et Car. As. p. 132; Forb. et Hemsl. Ind. Fl. Sin. III. p. 275; Matsum. Ind. Pl. Jap. II. 1. p. 100.

NOM. JAP. *Hiragishi-suge, Yezo-azesuge, Yachibōzu.*

HAB. *Hakkaidō.* Prov. Shiribeshi : Otaru (Faurie! July 27, 1888).—Prov. Ishikari : Hiragishi, near Sapporo (K. Miyabe!); Ishiyama (Y. Tokubuchi! June, 1895); Hassabu (M. Yamamoto![1] May 21, 1911; Y. Hashitani![2] May 15, 1911); Maruyama (Y. Tokubuchi! May 22, 1891); Zōzankei (Sadaharu Aoyagi![3] June

1) 山本 亮 2) 橘谷義孝 3) 青柳定治

6, 1895); Moiwadake (K. Miyabe! June 15, 1885); Mt. Ashiupetnupuri (S. Nishida & H. Yanagisawa! Aug. 4, 1913); Yamahana (H. Kuroda![1] 1910).—Prov. Iburi: Tomakomai (Y. Kudō & T. Yoshimi! June 25, 1915).—Prov. Tokachi: Mt. Memoro (S. Nishida! July 22, 1914).—Prov. Kushiro: Sempōji (K. Miyabe! July 3, 1884); Mt. Meakan (T. Kawakami! Aug. 1897).

Kuriles. Isl. Etorofu: Mt. Atoiya (T. Kawakami! Aug. 11, 1898); Porosu (T. Kawakami! Aug. 7, 1898).

Saghalin. Mauka-district: Tokotan (T. Miyake! June 22, 1907); Notasan (T. Miyake! June 30, 1907); Tōbutsu (T. Miyake! June 27, 1907).—Ōdomari-district: Mt. Omanbetsu (T. Miyake! July 15, 1908); Cheppopo (T. Miyake! July 8, 1908).—Shikka-district: Shikka (K. Miyabe & T. Miyagi! July 23, 1906).

DISTRIB. Saghalin, Kuriles, Hokkaidō, Korea, Manchuria, Amurland.

112. Carex lasiolepis Franch. in Bull. Soc. Phil. Paris 8 Sér. VII. p. 46 et Carex As. p. 173; Lév. Vnt. Bull. Soc. Geogr. Bot. (1903) p. 504; Matum. Ind. Pl. Jap. II. 1. p. 117; Kük. Cyp.-Car. p. 486; Nakai, Fl. Korea. II. p. 320.

Carex adumana Makino, Bot. Mag. Tokyo IX. p. 258.

NOM. JAP. *Azuma-suge.*

HAB. *Hokkaidō.* Prov. Hidaka: Mukawa (M. Adachi![2] April, 1884).

DISTRIB. Hokkaidō, Honshū and Korea.

New to the Flora of Hokkaidō.

113. Carex rotundata Wahlenb. in Vet.-Akad. Handl. XXIV. p. 153; Kunth, Enum. II. p. 451; Ledeb. Fl. Ross. IV. p. 300; Trautv. et Mey. Fl. Ochot. p. 99; Fr. Schm. Fl. Sachal. p. 197; F. Kurtz, Fl. Tschkt. in Engl. Bot. Jahrb. XIX. p. 479.

Carex rostrata Stokes, subsp. *rotundata* Kük. in Cyp.-Car. p. 723; Miyabe & Miyake, Fl. Saghal. p. 551.

NOM. JAP. *Karafuto-kasasuge.*

HAB. *Hokkaidō.* Prov. Ishikari: Horomui (K. Miyabe! July 13, 1885); Sapporo (Y. Tokubuchi! June 6, 1891).—Prov. Kushiro: Mt. Meakan (T. Kawakami! Aug. 1897).

DISTRIB. Saghalin, Hokkaidō, Siberia, North Europe and Arctic North A-

1) 黒田秀博 2) 足立元太郎

merica.

New to the Flora of Hokkaidō.

114. Polygonatum involucratum Maxim. Mél. Biol. XI. p. 844.

Periballanthus involucratus Fr. et Sav. Enum. Pl. Jap. II. p. 524.

Polygonatum Periballanthus Makino, Bot. Mag. Tokyo XII. p. (228) et *ibidem* XV. p. 150; Matsum. Ind. Pl. Jap. II. 1. p. 211.

NOM. JAP. *Waniguchisō.*

HAB. *Hokkaidō.* Prov. Oshima : Yachi, Hakodate (F. C. Greatrex! June 15, 1917); Larch plantation 2 1/2 miles from Yunokawa (F. C. Greatrex! July 1, 1917); Vicinity of Nanae (F. C. Greatrex! Aug. 30, 1917).

DISTRIB. Hokkaidō, Honshū, Shikoku, Kiushū and Manchuria.

New to the Flora of Hokkaidō.

115. Cocculus Thunbergii DC., Prodr. I. p. 98; Maxim. Mél. Biol. XI. p. 651; Fr. et Sav. Enum. Pl. Jap. I. p. 19; Matsum. et Hayata, Enum. Pl. Formos. p. 14; Nakai, Fl Korea. I. p. 39; Matsum. Ind. Pl. Jap. II. 2. p. 132.

Menispermum orbiculatum Thunb. Fl. Jap. p. 194; Miq. Prol. Fl. Jap. p. 198. form. **trilobus** Miq. *l. c.*

Menispermum trilobum Thunb. *l. c.*

Cocculus trilobus DC. Prodr. I. p. 98.

Cebatha orbiculata C. K. Schn. var. *triloba* C. K. Sch. Handb. Laubholzk. I. p. 327, f. 265 n.

NOM. JAP. *Mitsumata-tsuzurafuji.*

HAB. *Hokkaidō.* Prov. Oshima : Hakodate, at the top of East Point Cliff (F. C. Greatrex! Aug. 12 & 23, 1917).

DISTRIB. (Sp.) Hokkaidō, Honshū, Shikoku, Kiushū, Formosa, Korea and China.

New to the Flora of Hokkaidō.

116. Ranunculus trichophyllus Chaix, in Vill. Hist. Pl. Danch. I. p. 335; Huth, in Bull. Herb. Boiss. (1897) p. 1078; Kom. Fl. Mansh. II. p. 292; Koidz. Pl. Sachal. p. 64; Matsum. Ind. Pl. Jap. II. 2. p. 121; Miyabe & Miyake, Fl. Saghal. p. 12.

form. **nemorensis** *nobis.*

Foliorum laciniis brevioribus nec penciliato-coactis a typo diagnoscitur.

NOM. JAP. *Nemuro-umebachimo* (nov.).

HAB. *Hokkaidō.* Prov. Kushiro : Lake Tōro (S Nozawa![1] Aug. 11, 1887). —Prov. Nemuro : Tomoshiri (K. Miyabe! Aug. 2, 1894; M. Nakamura! June 29, 1885; D. Hoshi![2] Aug. 21, 1912).

The general character of this form is somewhat near to that of *Ranunculus circinatus*, but it is easily distinguished from the latter by its smaller flower and shorter leaf-lobes.

form. **kushirensis** *nobis.*

Flores magni. Petala circiter 9 mm longa. Cetera ut typo.

NOM. JAP. *Kushiro-umebachimo* (nov.).

HAB. *Hokkaidō.* Prov. Kushiro : River Akan (T. Kawakami! July 27, 1891); Lake Akan (T. Kawakami! Aug. 24, 1897); Teshikaka (K. Miyabe! Aug. 17, 1917); Shitakara, River Setchiri (T. Obanawa! June 1895).

DISTRIB. (Sp.) Widely distributed throughout Europe, Asia and North America.

117. Myriophyllum spicatum L., Spec. Pl. ed. 1. p. 992; P. DC. in DC. Prodr. III. p. 68; Ledeb. Fl. Ross. II. p. 118; Maxim. Ind. Fl. Pek. in Prim. Fl. Amur. p. 471; Fr. et Sav. Enum. Pl. Jap. I. p. 165; Britt. & Brown, Ill. Fl. II. p. 503; Watson, Bot. Calif. I. p. 215; Clarke, in Hook. f. Fl. Brit. Ind. II. p. 433; Ito et Matsum. Tent. Fl. Lutch. p. 471; Matsum. et Hayata, Enum. Pl. Formos. p. 138; Hayata, Fl. Mont. Formos. p. 95; Schlinder, in Engl. Pfl.-Reich. IV. 225. p. 90; Matsum. Ind. Pl. Jap. II. 2. p. 415.

Myriophyllum spicatum L. var. *muricatum* Maxim. Mél. Biol. IX. p. 133; Clarke, in Hook. f. Fl. Brit. Ind. II. p. 433; Matsum. Ind. *l. c.*

NOM. JAP. *Hozakino-fusamo.*

HAB. *Hokkaidō.* Prov. Iburi : Lake Osatsu (Y. Tokubuhhi! Aug. 1893); Chitose (K. Miyabe & S. Arimoto![4] Aug. 8, 1902); Mombetsu (M. Date![5] July 13, 1895); Usumura, Nakanuma (K. Miyabe! Sept. 23, 1893).—Prov. Kushiro : Lake Tōro (S. Nozawa! Aug. 16, 1887); Lake Harutori (Kwanjiro Nishikawa![6]

1) 野澤俊次郎 2) 星 大吉 3) 小花和太郎 4) 有元新太郎 5) 伊達宗經
6) 西川冠次郎

1914); Lake Akan (T. Kawakami! Aug. 23, 1897).—Prov. Nemuro : Tomoshiri (K. Miyabe! Aug. 2, 1894).

Kuriles. Isl. Etorofu : Naibo (T. Kawakami! Sept. 2, 1898).

DISTRIB. Cosmopolitic species.

118. Myriophyllum verticillatum L. Spec. Pl. ed. 1. p. 992; P. DC. in DC. Prodr. III. p. 68; Ledeb. Fl. Ross. II. p. 118; Maxim. Prim. Fl. pp. 107 et 471 et Mél. Biol. IX. p. 183; Miq. Prol. Fl. Jap. p. 264; Fr. et Sav. Enum. Fl. Jap. I. p. 164; Britt. & Brown, Ill. Fl. II. p. 503; Clarke, in Hook. f. Fl. Brit. Ind. II. p. 433; Kom. Fl. Mansh. III. p. 112; Schlinder, in Engl. Pfl.–Reich. IV. 225. p. 87; Matsum. Ind. Pl. Jap. II. 2. p. 416.

NOM. JAP. *Fusamo.*

HAB. *Hokkaidō.* Prov. Oshima : Lake Ōnuma (Y. Tokubuchi! Aug. 19, 1888).

DISTRIB. Hokkaidō, Honshū, Korea, Manchuria, China (Peking), Dahuria, North Asia, Kashmir, Persia, Algier, Asia Minor, Europe and North America.

119. Myriophyllum ussuriense Maxim. in Mél. Biol. IX. p. 183; Fr. et Sav. Enum. Pl. Jap. II. p. 369; Kom. Fl. Mansh. III. p. 113; Schlinder, in Engl. Pfl.–Reich. IV. 225. p. 86; Matsum. Ind. Pl. Jap. II. 2. p. 416.

Myriophyllum verticillatum L. var. *ussuriense* Rgl. Tent. Fl. Ussur. p. 60.

NOM. JAP. *Tachimo.*

HAB. *Hokkaidō.* Prov. Iburi : Yūbutsu (Y. Tokubuchi! Aug. 25, 1892).

DISTRIB. Hokkaikō, Honshū, Manchuria, Ussuri and Dahuria.

120. Cnidium Tachiroei Makino, Bot. Mag. Tokyo XX. p. 94; Matsum. Ind. Pl. Jap. II. 2. p. 433.

Seseli Tachiroei Fr. et Sav. Enum. Pl. Jap. II. p. 373; Yabe, Rev. Umbell. Jap. p. 59.

NOM, JAP. *Iwa-uikyō, Miyama-uikyō, Yama-uikyō, Shirayama-ninjin, Asama-ninjin, Hosoba-shirayamaninjin.*

HAB. *Hokkaidō.* Prov. Shiribeshi : Isl. Okushiri, Mt. Kamui (Y. Kudō! n. 2370, Aug. 5, 1916).—Prov. Hidaka : Samani, Mt. Apoi (K. Kondo! Aug. 17, 1912).

DISTRIB. Mountains of Hokkaidō, Honshū and Shikoku.

New to the Flora of Hokkaidō.

121. Arnica sachalinensis A. Gray, in Proc. Am. Acad. XIX. (1883) p. 55; Miyabe & Miyake, Fl. Saghal. p. 262.

Arnica Chamissonis Fr. Schm. Fl. Sachal. p. 151; Koidzumi, Pl. Sachal. p. 120. (non Less.).

Arnica Chamissonis Less. *β sachalinensis* Rgl. in Herder, Pl. Radd. III. 2. p. 112.

NOM. JAP. *Ō-usagigiku, Karafuto-kinguruma.*

HAB. *Hokkaidō.* Prov. Ishikari: Mt. Pinneshiri (S. Hoshino![1] Sept. 1917).

Saghalin Isl. Todomoshiri: Shimizutani (T. Miyake! July 26, 1906); Tomarizawa (T. Miyake! July 23, 1906).—Ōdomari-district: Ōdomari (Miyabe & Miyagi! Aug. 4, 1906); Chipisani (Miyabe, Miyagi & Miyake! July 15, 1905); Airop (T. Miyake! July 31, 1906); Notoro (Miyabe & Miyagi! July 19, 1906).—Mauka-district: Wendgishi (Miyabe & Miyagi! Aug. 18, 1906).—Ushoro-district: Sokorai (Miyabe & Miyagi! Ang. 13, 1906).—Toyohara-district: Shiraraka (T. Miyake! Aug. 9, 1906).—Shikka-district: Soya (T. Miyake! Sept. 15, 1906); Nayoro (T. Miyake! Sept. 6, 1906); Lake Solenuiya (Miyabe & Miyagi! July 26, 1906); Vicinity of R. Remrem (T. Miyake! Aug. 22, 1906).—Russian Saghalin: Pilewo (Miyabe & Miyagi! Aug. 13, 1906).

DISTRIB. Saghalin and Hokkaidō.

New to the Flora of Hokkaidō.

1) 星野三郎

摘　　要

101. Dryopteris crenulato-serrulata C. Chr. **おほみやまいぬわらび。**

本道に於ては膽振國樽前山、羊蹄山．厚眞川上流及北見國斜里山道等の各地に於て採集せられたり。本道に於ては新發見とす。尙本州に分布す。

102. Dryopteris okushirensis Miyabe et Kudō. **をくしりいはへご(新稱)**

本種は**いはへご**に類似すと雖も囊堆は小形にして葉片の緣邊に散在し、其基上にある鱗片は褐色を呈するにより容易に區別し得べし。後志國奥尻島に於て發見せらる。新種なり。

103. Athyrium crenatum Rupr. **みやましだ。**

石狩國輕川に產す。珍種なり。又樺太に產す。而してクリスト氏の新種 *Athyrium mite* は本種と分ち難し。

104. Anogramma Makinoi H. Christ. **からくさしだ。**

石狩國定山溪、手稻山及神居古潭等に生ず。

105. Selaginella involvens Spring. form. **minor** Milde. **いはひば。 いはまつ。いはごけ。**

後志國奥尻島神威山岩上に生ず。本道に於ける珍種の一とす。奥尻島は黑潮の一支流により洗はれ、氣候溫暖なり。依りて暖地產の種類にして該島に達し全く北海道本島に及ばざるか又は及ぶも頗る稀なるものなしとせず。例へば**しゆんらん、あらげへうたんぼく、ねほくまわらび、やぶかうじ**等の如し。

106. Cyperus difformis L. **たまがやつり。**

石狩國手稻及發寒等に產す。

107. Juncellus serotinus C. B. Clarke. **みがやつり。うしがやつり。**

本道に於ては後志、石狩及日高等の諸國に分布す。

108. Pycreus sanguinolentus Nees. **かはらすがな。してがやつり。**

渡島、膽振、石狩及十勝の諸國に產す。

109. Scirpus mucronatus L. **かんがれい。**

渡島、後志、石狩及膽振の諸國に產す。

110. Scirpus erectus Poir. **ほたるゐ。**

膽振國及釧路國に產す。

111. Carex flaccidior Miyabe et Kudō. **ひらぎしすげ。えぞあぜすげ。やちばうず。**

本道及樺太各地に生ず。

112. Carex lasiolepis Franch. **あづますげ。**

日高國鵡川に產す、珍品とす。

113. Carex rotundata Wahlenb. **からふとかさすげ。**

石狩國幌向、釧路國雌阿寒山等に產す。

114. Polygonatum involucratum Maxim. **わにぐちさう。**

渡島國函館湯の川、七飯附近に産す。

115. Cocculus Thunbergii DC. form. **trilobus** Miq. **みつまたつづらふぢ。**

渡島國函館に産す。

116. Ranunculus trichophyllus Chaix.

form. **nemorensis** Miyabe et Kudō. **ねむろうめばちも**（新稱）

葉の裂片短くして水より摘出せしむるも畫筆様に集合せざるを特長とす。根室國及釧路國に産す。

form. **kushrensis** Miyabe et Kudō. **くしろうめばちも**（新稱）

本種の花は**うめばちも**に比して頗ぶる大形なり。花瓣の長さ約九ミ、メ、に達す。釧路國に産す。

117. Myriophyllum spicatum L. **ほざきのふさも。**

膽振國、釧路國、根室國、千島國擇捉島に産す。

118. Myriophyllum verticillatum L. **ふさも。**

渡島國大沼に産す。

119. Myriophyllum ussuriense Maxim. **たちも。**

膽振國勇拂に産す。

120. Cnidium Tachiroei Makino. **いはうゐきやう。みやまうゐきやう。やまうゐきやう。しらやまにんじん。あさまにんじん。ほそばしらやまにんじん。**

後志國奥尻島神威山及日高國様似アポイ山に産す。

121. Arnica sachalinensis A. Gray. **おほうさぎぎく。からふときんぐるま。**

本種は樺太各地に於て採集せらる。本道に於ては昨年十月始めて星野三郎氏石狩國ピンネシリ山に於て採集せられたり。