HOKKAIDO UNIVERSITY

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MATERIALS FOR A FLORA OF HOKKAIDO. XI.

BY

KINGO MIYABE and YUSHUN KUDÔ.

北海道植物志料 XI.

宮部金吾
工藤祐舜

134. Trichomanes orientalis C. Chr. Ind. Fil. p. 646.

Trichomanes japonicum Fr. et Sav. Enum. Pl. Jap. II. pp. 207 et 618; Makino, Bot. Mag. Tokyo, XII. p. (193) et Phanerog. Pterid. Jap. Ic. pl. XXI. (non Thunb.).

var. **abbreviatum** (H. Chr.) Miyabe et Kudo, nom. nov.

Trichomanes japonicum Fr. et Sav. var. *abbreviatum* H. Chr. Bull. Herb. Boiss. VII. p. 817; Matsum. Ind. Pl. Jap. I. p. 349.

Hymenophyllum Wrightii Takeda, Bot. Mag. Tokyo, XXIV. p. 179, (quoad Pl. Kuril.).

NOM. JAP. *Kita-koganeshinobu.* (nov.).

HAB. *Hokkaido.* Prov. Shiribeshi: Shakotan (U. Faurie! n. 9893, June 10, 1893).

Kuriles. Isl. Etorofu: Toro (S. Fujimura![1] Aug. 27, 1890).

DISTRIB. (var.) Southern Kuriles, Hokkaido and Northern Honshu; (sp.) Kyushu, China and Himalaya.

A new genus to the Flora of Hokkaido.

135. Potamogeton praelongus Wulf. in Roem. Arch. III. 3. p. 311; Kunth, Enum. Pl. III. p. 133; Ledeb. Fl. Ross. IV. p. 27; A. Benn. in Journ. Bot. XXIV. p. 141 et XLII. p. 70; Rgl. et Til. Fl. Ajan. p. 120;

1) 藤村信吉。

[Trans. Sapporo Nat. Hist. Soc., Vol. IX. No. 1. Aug. 1924.]

Kawakami, Bot. Mag. Tokyo, XII. p. (225); Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. p. 315 et Potamog. in Engl. Pfl.-reich. IV. 11. p. 96; Britt. et Br. Ill. Fl. I. p. 71; Matsum. Ind. Pl. Jap. II. 1. p. 27; Hegi, Ill. Fl. Mitteleurop. I. p. 127; Smiley, Univ. Calif. Publ. Bot. IX. p. 89.

Nom. Jap. *Obano-ebino.* (nov.).

Hab. *Hokkaido.* Prov. Oshima: Onuma (Y. Tokubuchi![1] Aug. 19, 1888).—Prov. Iburi: Kutchan (T. Baba![2]); Lake Hangetsu, at the foot of Mt. Makkarinupuri (I. Yamamoto![3] Aug. 30, 1912 et Aug. 2, 1913).—Prov. Kushiro: Lake Akan (T. Kawakami![4] Aug. 1897).—Prov. Nemuro: Nemuro (U. Faurie).

Kuriles. Isl. Etorofu: Shana (T. Kawakami! Aug. 1898).

Distrib. Kuriles, Hokkaido, Ajan, Europe and North America.

136. Potamogeton compressus L. Spec. Pl. ed. 1, p. 127; Ledeb. Fl. Ross. IV. p. 29; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. p. 339 et Potamog. in Engl. Pfl.-reich. IV. 11. p. 102; Kom. Fl. Mansh. I. p. 225; Hegi, Ill. Fl. Mitteleurop. I. p. 132.

Potamogeton zosteraefolium Schum. Enum. Pl. Saelland. I. p. 50; Kunth, Enum. Pl. III. p. 134; Kawakami, Bot. Mag. Tokyo, XII. p. (225); Benn. in Bull. Herb. Boiss. IV. p. 547; Matsum. Ind. Pl. Jap. II. 1. p. 28.

Potamogeton complanatum Willd. in Magaz. Ges. Naturforsch. Freunde Berlin, V. p. 297; A. Benn. Jour. Bot. XXIV, pp. 140 et 362.

Nom. Jap. *Akanko-mo, Yezo-yanagimo.*

Hab. *Honshu.* Prov. Mutsu: Aomori (N. Kinashi![5] Aug. 11, 1911); Yamada-gawa, Nishitsugaru-gun (———, Aug. 10, 1913).

Hokkaido. Prov. Oshima: Onuma (Y. Tokubuchi! Aug. 18, 1888).—Prov. Iburi: Azuma (U. Faurie).—Prov. Kushiro: Lake Akan (T. Kawakami! Aug. 1897; J. Hanzawa![6] Aug. 5, 1904; S. Tanakadate![7] July 1917); Lake Harutori (Miyabe! July 23, 1894); Lake Toro (J. Hanzawa! Aug. 8, 1904).

Distrib. Hokkaido, Honshu, Manchuria, Amur-region, Baical-region, Europe and North America.

137. Potamogeton Maackianus A. Benn. in Jour. Bot. XLII. p. 74;

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1) 徳淵永次郎。 2) 馬塲某 3) 山本岩雄。 4) 川上瀧彌。 5) 木梨延太郎。
6) 半澤洵。 7) 田中館秀三。

Matsum. Ind. Pl. Jap. II. 1. p. 26; Aschers. u. Graebn. Potamog. in Engl. Plf.-reich. IV. 11. p. 107; Nakai, Fl. Korea. II. p. 279.

Potamogeton serrulatus Rgl. et Maack, in Rgl. Tent. Fl. Ussuri. p. 153; Makino, Bot. Mag. Tokyo, IV. pp. 172, 421: V. p. 338; Kom. Fl. Mansh. I. p. 226 (nec Schrad. non Opiz.).

Potamogeton Robbinsii Oakes, var. *japonicus* A. Benn. in Bull. Herb Boiss. IV. p. 549; Kawakami, Bot. Mag. Tokyo, XII. p. (225).

Potamogeton Robbinsii Makino, Bot. Mag. Tokyo, I. pp. 4, 6 (non Oakes).

NOM. JAP. *Sennin-mo.*

HAB. *Hokkaido.* Prov. Oshima: Junsainuma (S. Nishida![1] Aug. 2, 1912); Onuma (S. Tanakadate! Sept. 1917).—Prov. Kushiro: Lake Akan (U. Faurie! n. 10172, Aug. 3, 1893; T. Kawakami! Aug. 1897; J. Hanzawa! Aug. 5, 1904); Lake Toro (Hanzawa! Aug. 8, 1904); Lake Kutcharo, at Oyakot, at the depth of 4–6 feet (K. Miyabe! Aug. 20, 1917; S. Tanakadate! Aug. 1917).

DISTRIB. Hokkaido, Honshu, Korea, Manchuria, and Ussuri-region.

138. Carex subspathacea Wormsk. Fl. Dan. IX. p. 4, t. 1530; Ledeb. Fl. Ross. IV. p. 304; Lange, Consp. Fl. Groenl. ed. 2, p. 140; Fr. Schm. Fl. Sachal. p. 196; Britt. and Br. Ill. Fl. I. p. 310, f. 726; Kük. Cyp.-Car. in Engl. Pfl.-reich IV. 20. p. 361; Miyabe and Miyake, Fl. Saghal. p. 538.

Carex Hoppneri Boott, in Hook. Fl. Bor. Am. II. p. 219, t. 220.

Carex salina Wahlb. var. *subspathacea* Tuckerm. Enum. Meth. (1843) p. 12; Blytt. Norg. Fl. I. p. 218.

Carex salina Wahlb. form. *nana* Trautv. in Consp. Fl. Nov.-Seml. p. 82.

NOM. JAP. *Hime-ushiosuge.*

HAB. *Hokkaido.* Prov. Kushiro: Akkeshi (K. Urakami![2] July 17, 1921).

Saghalien. Mereya (K. Miyabe, T. Miyake[3] and T. Miyagi![4] July 14, 1906); Dui (Glehn, June 1861); Truotoga (Glehn, Aug. 1861).

DISTRIB. Saghalien, Hokkaido, Northern Coast of Siberia, from Yalmal Peninsula and White Island eastward to the Chukchi Peninsula and the island of St. Lawrence.

1) 西田彰三。 2) 浦上啓太郎。 3) 三宅勉。 4) 宮城鐵夫。

This species is circumpolar in distribution, and its southernmost limit of distribution has so far been on the beach of the Aniwa Bay in the Southern Saghalien. It is therefore of great interest to know that it has recently been discovered in the main island of Hokkaido, in a salt marsh near Akkeshi in the province of Kushiro, on the Pacific coast.

139. Gymnadenia Iinumae Miyabe et Kudo, nom. nov.

Habenaria Iinumae Makino, Ill. Fl. Jap. I. n. 9, p. 1, t. 53.

Platanthera Iinumae Makino, Bot. Mag. Tokyo, XVI. p. 89; Matsum. Ind. Pl. Jap. II. 1. p. 259.

NOM. JAP. *Iinuma-mukago.*

HAB. *Hokkaido.* Prov. Oshima: in a wooded hillside, 3.5 miles north. west of Nanaë (F. C. Greatrex! Aug. 13, 1917).

DISTRIB. Hokkaido, Honshu, Shikoku and Kyushu.

New to the Flora of Hokkaido.

140. Tetragonia expansa Murr. in Comm. Goetting. VI. p. 13; Thunb. in Trans. Linn. Soc. II. p. 335; DC. Prodr. III. p. 452; Benth. Fl. Austr. III. p. 325; Miq. Prol. Fl. Jap. p. 89; Hance, Jour. Bot. (1870) p. 276 et (1878) p. 227; Bot. Mag. t. 2362; Fr. et Sav. Enum. Pl. Jap. I. p. 177; Forb. et Hemsl. Ind. Fl. Sin. I. p. 323; Pax, in Engl. Nat. Pfl.-fam. III. 1b. p. 44, f. 18; Palib. Consp. Fl. Korea. I. p. 95;. Ito et Matsum. Tent. Fl. Lutch. p. 521; Matsum. et Hayata, Enum. Pl. Formosa. p. 167; Nakai, Fl. Korea. I. p. 250; Matsum. Ind. Pl. Jap. II. 2. p. 77; Aschers. u. Graebn. Syn. Mitteleurop. Fl. V. p. 391.

Tetragonia japonica Thunb. Fl. Jap. p. 208; Juel, Pl. Thunberg. p. 157.

NOM. JAP. *Tsuruna.*

HAB. *Hokkaido.* Prov. Oshima: the beach on the west side of Hakodate Head (F. C. Greatrex! Sept. 30, 1922).

DISTRIB. Hokkaido, Honshu, Kyushu, Tsushima, Liukiu, Korea, Formosa, Bonin, China, Australia, New Zealand, Polynesia, South America.

New to the Flora of Hokkaido.

141. Schizandra nigra Maxim. in Bull. Ac. Petérsb. XVII. p. 144 et Mél. Biol. VIII. p. 370; Fr. et Sav. Enum. Pl. Jap. I. p. 18; Matsum. Ind. Pl. Jap. II. 2. p. 97: C. K. Schn. Ill. Handb. Laubh. I. p. 341, *in nota*

Schizandrae chinensis.

NOM. JAP. *Matsubusa*, *Ushibudo*.

HAB. *Hokkaido*. Prov. Oshima: Sannokawa in the vicinity of Hakodate (Yasoichi Oda![1] Oct. 4, 1915).—Without locality (Albrecht).

DISTRIB. Hokkaido, Honshu and Kyushu.

142. Rhamnus Ishidae Miyabe et Kudo, sp. nov.

Fruticulus nanus, prostratus, radices emittens, enermis, ramosus; rami crassi, repentes, multis cicatricibus foliosis praediti, cortice griseo-nigrescente; ramuli ascendentes, 16–24 cm. rarius ad 40 cm. alti, hornotini breves, glabri, bruneo-virides, vetustiores longitudinaliter sulcati, grisei vel nigro-brunescentes, glabri; gemmae fusiformi-ovatae, apice acutae, squamis suboppositis ciliatis vestitutae. Folia elliptica, obovato-elliptica vel late elliptica, apice subito breviterque cuspidato-acuta vel obtusa, basi etiam obtusa, rotundata vel leviter cordata, margine praeter partem basilarem inaequliter crenulata, supra glabra vel ad nervos pubescentia, subtus pubescentia vel ad nervos longe albo-pilosa, absque petiolo 3.5–5.5 cm. longa, 2–3.5 cm. lata, in ramulis novellis 8.5 cm. usque longa, 6.2 cm. usque lata, obscure lutescenti-viridia, subconcoloria, costis utrinque 7–8 in numero, leviter arcuatis; petioli breves, 5–8 mm. longi, puberulentes. Flores ♀ solitarii, ex axillis foliorum orti, virescentes, ca. 2.5 mm. longi; calycis tubus obconicus, glaber, lobis 5, ovato-conicis, apice acuminatisque calloso-obtusis, 3-nerviis; styli 3, ad basin fere soluti; pedicelli leviter arcuati, flores duplo longiores, ca. 4 mm. longi. Flores ♂ nobis ignoti. Fructus maturus globosus, non apiculatus, primo rubescens, deinde nigrescens, basi calycis persistenti planae insidens, ca. 7 mm. in diametro, 3 coccus; pyrena obovata, basi acuta, ca. 6 mm. longa, ca. 4 mm. lata, flavo-viridescens, dorso profunde excavata et culcata, dehiscens; semen obovatum, basi acutum, ca. 5 mm. longum, ca. 3.5 mm. latum, pallide castaneo-testaceum, dorso profunde excavatum, incrassato-marginatum, medio longitudinaliter striata.

NOM. JAP. *Miyamahan-modoki* (nov.)

HAB. *Hokkaido*. Prov. Ishikari: Mt. Yubari (B. Ishida[2] and M. Tatewaki![3] Aug. 5, 1921).—Prov. Hidaka: Mt. Apoi (B. Ishida! Aug. 1922).

DISTRIB. Endemic species!

1) 小田四十一。 2) 石田文三郎。 3) 館脇操。

This species is closely related to *Rhamnus alnifolia* L'Herit.[1] of North America, having 5-merous dioecious flowers and no petals. But it is easily distinguished from the latter by its broader leaves, which have abruptly cuspidate apices and more numerous closely set and prominent lateral nerves, and also by its larger fruits.

Last year, Mr. B. Ishida collected on Mt. Yubari the living specimens of this plant, which are now cultivated in our Botanical Garden. These plants produced a few female flowers this year, but failed to yield ripened fruits. This summer, he brought back again a large number of the living specimens to the Garden from Mt. Pinneshiri, in the province of Hidaka, where it grows abundantly near the top of that mountain.

143. Arctostaphylos Uva-ursi Spreng. Syst. Veg. II. p. 287; DC. Prodr. VII. p. 584; Cham. et Schl. in Linnaea I. p. 538; Ledeb. Fl. Ross. II. p. 909; A. Gray, Fl. N. Am. II. 1. p. 27; Fr. Schm. Fl. Sachal. p. 157; Herder, Pl. Radd. Monop. IV. 1. p. 43; Miyabe, Fl. Kuril. p. 247; Kurtz, Fl. Chilcat. in Engl. Bot. Jahrb. XIX. p. 393; Dippel, Handb. Laubholzk. I. p. 342; Britt. and Br. Ill. Fl. II. p. 572; Kom. Fl. Mansh. III. p. 212; C. K. Schn. Ill. Handb. Laubholzk. II. p. 543; Miyabe and Miyake, Fl. Saghal. p. 303.

Arbutus Uva-ursi L. Spec. Pl. ed. 1, p. 395; Pall. Fl. Ross. I. 2. p. 48.

Arctostaphylos officinalis Wim. et Grab. Fl. Silesiae I. p. 391.

Arctostaphylos procumbens E. Mey., in Patze, Mey. et Elk. Fl. Preuss. p. 188.

NOM. JAP. *Kumakokemomo.*

HAB. *Saghalien.* On the coast of Tschai-wo (Yoshio Kusano![2] 1921). *Kuriles.* Without locality (ex Pallas).

DISTRIB. Saghalien, Kuriles, Northern Manchuria, Eastern Siberia, Chukchi Peninsula, Baical-, Altai- and Ural-regions, Caucasus, Arctic and Northern Europe and North America.

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1) **Rhamnus alnifolius** L'Herit Sert. Angel. p. 5; Dippel, Handb. Laubholzk. II. p. 525; Britt. and Br. Ill. Fl. II. p. 406, f. 2393; C. K. Schn. Ill. Handb. Laubholzk. II. p. 277.

2) 草野芳雄。

In 1860, Glehn found berries and flowers of this plant at the house of Gilyak in Northern Saghalien. As to the Kurile Islands, Pallas already enumerated it without any locality. Last year, was added to our herbarium a small but interesting collection of plants from Northern Saghalien, which were collected in the vicinity of Tschai-wo by Captain Kusano. In this set, we found an excellent specimen of this long sought-after plant.

144. Apocynum venetum L. Spec. Pl. ed. 1, p 213; DC. Prodr. VIII. p. 440; Ledeb. Fl. Ross. III. p. 43; Maxim. Ind. Fl. Pekin. in Prim. Fl. Amur. p. 474; Miq. Prol. Fl. Jap. p. 62; Hance, Jour. Bot. (1883) p. 323; Fr. et Sav. Enum. Pl. Jap. I. p. 316; Franch. Pl. David. p. 206; Hook. f. Fl. Brit. Ind. III. p. 657; Palib. Act. Hort. Peterop. XXI. p. 224; K. Schumann, in Engl. u. Pr. Nat. Pfl.-fam. IV. 2. p. 179; Forb. et Hemsl. Ind. Fl. Sin. II. p. 98; Makino, Bot. Mag. Tokyo, XX. p. 90; Kom. Fl. Mansh. III. p. 297; Matsum. Ind. Pl. Jap. II. 2. p. 506.

Apocynum sibiricum Pall. ex Roem. et Schult. Syst. IV. p. 405; Ledeb. Icon. Fl. Ross. t. 240 et Fl. Alt. I. p. 235; Bunge, Enum. Pl. Chin. Bor. p. 43.

NOM. JAP. *Oshoroso.*

NOM. AINU. *Bashikurumun.*

HAB. *Hokkaido.* Prov. Shiribeshi: Kabuto-iwa, Oshoro (H. Kanzaki![1] July 21, 1885); on the coast, between Tsurikake and Garo in the island of Okushiri (Y. Kudo! Aug. 4, 1916).—Prov. Ishikari: Hamamashike (Y. Tanaka![2] July 14, 1905).

DISTRIB. Hokkaido, Honshu, Manchuria, Siberia, China, Western Tibet, Persia, Asia minor, Caucasus, Europe.

145. Anaphalis alpicola Makino, Bot. Mag. Tokyo, XVII. p. 151; Matsum. Ind. Pl. Jap. II. 2. p. 21.

NOM. Jap. Takane-yahazuhahako.

HAB. *Hokkaido.* Prov. Iburi: on serpentine rocks, between Pankerup-kepshnai and Mukawa (T. Ishikawa![3] June 1917).—Prov. Hidaka: Samani gun, Mt. Apoi (K. Kondo![4] Aug. 17, 1912); Mt. Orokunnenupuri (Y. Kudo! Aug. 29, 1914).

DISTRIB. Hokkaido and Honshu.

1) 神崎某。 2) 田中義麿。 3) 石川貞治。 4) 近藤金吾。

摘　要

134. Trichomanes orientalis C. Chr. var. **abbreviatum** Miyabe et Kudo. **きたこがねしのぶ。**（新稱）

本道に於て始めて發見せられたる屬にして、後志國積丹半島及千島國擇捉島に於て採集せられたり。

135. Potamogeton praelongus Wulf. **れほばえびも。**（新稱）

本道に於ては渡島國大沼、膽振國俱知安、半月湖、釧路國阿寒湖、根室國根室等に產す。

136. Potamogeton compressus L. **あかんこも。**（新稱）。**えぞやなぎも。**

本州にては陸奥青森、西津輕郡山田川等に生じ、本道に於ては渡島國大沼、膽振國厚眞、釧路國阿寒湖、春採湖、塘路湖等に生ず。

137. Potamogeton Maackianus A Benn. **せんにんも。**

本道に於ては渡島國蕪菜沼、大沼、釧路國阿寒湖、塘路湖、屈斜路湖等に生育す。

138. Carex subspathacea Wormsk. **ひめうしほすげ。**

本道に於ては釧路國厚岸及樺太に於てはメレヤ、ツィルウタカ等に於て採集せられ、本道に於ては新發見なり。本種は其分布區域極地的にして南樺太亞庭灣メレヤは其南端なりしに今回の調査に於て更に南下して厚岸海岸に生育するを知り得たり。

139. Gymnadenia Iinumae Miyabe et Kudo. **いひぬまむかご。**

本道に於ては七重の北西部に發見せられたり。

140. Tetragona expansa Murr. **つるな。**

本道に於て今回始めて函館灣頭に發見せられたり。かゝる熱帶性植物の本道に分布するは興味ある事實なりとす。

141. Schizandra nigra Maxim. **まつぶさ。うしぶたう。**

アルブレヒト氏は本道に於て採集せるも其產地を明記せざりしに函館中學校長小田四十一氏は本種を函館三の川にて採集せり。

142. Rhamnus Ishidae Miyabe et Kudo. **みやまはんもどき。**

本種は北米產 *Rhamnus alnifolia* L'Herit に酷似し五數の二家花を有し花瓣を有せず。然れども本種の葉の廣くして其先端急に微凸形をなし多數の近接せる顯著なる側脈及其大形なる果實により容易に區別することを得べし。前年石田文三郎氏は夕張岳より生植物を携へ來り、現今植物園内に培養せらる。是等の植物は本年雌花を生ぜるも成熟せる果實を附するに至らざりき。昨年夏同氏は日高國ピンネシリ山より多數の生植物を携へ還へり、該山の山頂附近に最も多量に生育す。

143. Arctostaphylos Uva-ursi Spreng. **くまこけもも。**

西歷1860年、グレーン氏は北樺太ギリヤークの家にて本種の花及果實を發見せり。パラス氏は千島に產するを記せども其產地を明記せ

ず。而して本學に寄贈せられたる草野大尉の北樺太東海岸チャイウォーに於ける採集品中に此の長く希望せる本種の完全なる腊葉を見出せり。

144. Apocynum venetum L. **おしよろさう。** パシクルモン(アイヌ名)。

北海道に於ては後志國忍路兜岩、奥尻島釣掛ガロ間、石狩國濱增毛等に分布す。

145. Anaphalis alpicola Makino. **たかねやはずははこ。**

北海道に於ては膽振國パンケルップケップシュナイ鵡川間の蛇紋岩上、日高國アポイ山及オロクンネヌプリ山等生ず。