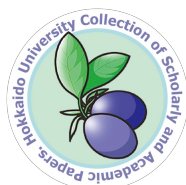




HOKKAIDO UNIVERSITY

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ANGIOSPERMÆ

MONOCOTYLEDONEÆ

TYPHACEÆ

Typha L.

127. *Typha latifolia* L. Sp. Pl. ed. 1. 971; Ledeb. Fl. Ross. IV. 1; Rgl. Tent. Fl. Ussuri. 138; Kunth, Enum. Pl. III. 90; Kronfeld, in Verh. Zool.-Bot. Ges. Wien, XXXIX. 176; Britt. & Br. Ill. Fl. I. 62; Makino, in Tokyo Bot. Mag. XII. (342); Graebn. in Engl. Pfl.-reich. IV. 8: 8; Kom. Fl. Mansh. I. 217; Forb. et Hemsl. Ind. Fl. Sin. III. 172; Hegi, Ill. Fl. Mittel-Europ. I. 113; Matsum. Ind. Pl. Jap. II. 1: 22; Koidz. Pl. Sachal. 11; Miyabe & Miyake, Fl. Saghal. 495; Printz, Veg. Sib. Mong. Front. 113; Hult. Fl. Kamtch. I. 72; Kom. Fl. Kamtch. I. 107.

Typha Schuttletworthii Koch et Sond. subsp. *orientalis* Graebn. l.c. 10, quoad pl. Hokkaido; Matsum. Ind. Pl. Jap. II. 1: 22.

NOM. JAP. *Gama, Hira-gama.*

NOM. AINU. *Shikina.*

HAB. *Yezo.* Oshima, Iburi, Hidaka, Ishikari, Kushiro.

Southern Saghalien. Mauka, Toyohara.

DISTRIB. Saghalien, Yezo, Honshu, Manchuria, Amur, Ussuri, China, Kamtchatka, Siberia, Caucasus, Europe and North America.

128. *Typha angustata* Bory et Chaubard, Exp. Sc. Moreé II. 1. (1832) 338; Boiss. Fl. Orient. V. 50; Hook. f. Fl. Brit. Ind. VI. 489; Kronfeld, in Verh. Zool.-Bot. Ges. Wien, XXXIX. 159; Makino, in Tokyo Bot. Mag. XII. (342); Graebn. in Engl. Pfl.-reich. IV. 8: 14; Forb. et Hemsl. Ind. Fl. Sin. III. 171; Matsum. Ind. Pl. Jap. II. 1: 22.

NOM. JAP. *Hime-gama.*

HAB. *Yezo.* Iburi, Ishikari.

DISTRIB. Yezo, Honshu, Kyushu, Liukiu, Formosa, China, Manchuria, Mongolia, India, Western Asia, Europe, and Africa.

SPARGANIACEÆ

Sparganium L.

129. *Sparganium ramosum* Huds. Fl. Angl. ed. 2. 401; Ledeb. Fl. Ross. IV. 3; Boiss. Fl. Orient. V. 48; Meinsh. in Mém. Biol. XIII. 387; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. 280; Graebn. in Engl. Pfl.-reich. IV. 10: 13; Hegi, Ill. Fl. Mittel-Europ. I. 116.

subsp. ***stoloniferum*** Graebn. l.c. 14.

Sparganium asiaticum Graebn. in Allg. Bot. Zeitschr. IV. 32.

Sparganium longifolium Miq. Prol. Fl. Jap. 325; Fr. et Sav. Enum. Pl. Jap. II. 11; Makino, in Tokyo Bot. Mag. VIII. (507); Matsum. Ind. Pl. Jap. II. 1: 23; non Turcz.

NOM. JAP. *Mikuri*.

NOM. AINU. *Kanzarushi*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Nemuro.

DISTRIB. *sp.* *Yezo*, Honshu, Kyushu, China, Siberia, Afghanistan, Turkestan, Himalaya, Asia Minor, West Persia, Caucasus, Assyria, Europe and North Africa.

130. *Sparganium simplex* Huds. Fl. Angl. ed. 2. 401, *excl. var. β*; Ledeb. Fl. Alt. IV. 236, et Fl. Ross. IV. 4; Cham. in Linnaea. VI. 591; Turcz. Fl. Baic. Dah. II. 2: 170; Britt. & Br. Ill. Fl. I. 64; Meish. in Mém. Biol. XIII. 389; Korsh. Pl. Amur. 392; Kom. Fl. Mansh. I. 19; Hegi, Ill. Fl. Mittel-Europ. I. 117, *t. 15, f. 4*; Hult. Fl. Kamtch. I. 74; Kom. Fl. Kamtch. I. 108.

Sparganium affine Miyabe & Miyake, Fl. Saghal. 498; Kudo, Rep. Veg. N. Saghal. 45, non Schnizl.

NOM. JAP. *Yezo-mikuri*.

HAB. *Yezo*. Iburi, Ishikari, Kushiro.

Southern Saghalien. Shikka.

Northern Saghalien. Pronge-Baikal.

var. ***emersum*** Aschers. u. Graebn. l. c. 286; Graebn. in Engl. Pfl.-reich. IV. 10: 17; Miyabe & Miyake, Fl. Saghal. 497.

Sparganium emersum Rehman, in Verh. Naturw. Ver. Brünn, X. 80.

Sparganium longifolium Fr. Schm. Fl. Sachal. 178, p. p., non Turcz.

Sparganium Glehni Meinsh. in Mél. Biol. XIII. 390.

Sparganium affine Schnizl. var. *zosterifolium* Kudo, Contr. Fl. N. Saghal. 19 et Rep. Veg. N. Saghal. 45, non Neum.

NOM. JAP. *Karafuto-himemikuri*.

HAB. *Southern Saghalien*. Ushoro.

Northern Saghalien. Nyiwo.

DISTRIB. *sp.* Saghalien, Yezo, Honshu, Korea, Manchuria, Amur, Dahuria, Kamtchatka, Siberia, Western and Middle Asia, Europe and North America.

131. *Sparganium stenophyllum* Maxim. in Bull. Soc. Nat. Moscou, III. 171; Meinsh. in Mél. Biol. XIII. 391; Graebn. in Engl. Pfl.-reich. IV. 10: 17; Kom. Fl. Mansh. I. 219.

NOM. JAP. *Hosoba-mikuri*.

HAB. *Yezo*. Oshima, Iburi, Ishikari.

DISTRIB. *Yezo*, Honshu and Manchuria.

132. *Sparganium Friesii* Beurl. in Bot. Notis. (1854) 136; Graebn. in Engl. Pfl.-reich. IV. 10: 18; Miyabe & Miyake, Fl. Saghal. 497; Hult. Fl. Kamtch. I. 73; Kom. Fl. Kamtch. I. 110.

Sparganium natans Fries, in Bot. Notis. (1849) 13, (1852) 18; Meinsh. in Mél. Biol. XIII. 391, non L.

Sparganium longifolium Turcz. Fl. Baic.-Dah. II. 2: 170; Fr. Schm. Fl. Sachal. 178.

NOM. JAP. *Nagaha-ukimikuri*.

HAB. *Southern Saghalien*. Ushoro.

DISTRIB. Saghalien, Kamtchatka, Dahuria, Siberia, Russia and Scandinavia.

133. *Sparganium glomeratum* Laestadius ex Beurl. in Oefvers. Vet. Akad. Foerhandl. IX. 192; Graebn. in Engl. Pfl.-reich. IV. 10: 20; Koidz. Pl. Sachal. 12; Miyabe & Miyake, Fl. Saghal. 496; Kudo, Rep. Veg. N. Saghal. 44; Hult. Fl. Kamtch. I. 73; Kom. Fl. Kamtch. I. 109.

Sparganium simplex Franch. in Bull. Soc. Bot. Fr. XXVI. 87; Matsum.

Ind. Pl. Jap. II. 1: 23, non Huds.

NOM. JAP. *Ko-mikuri*, *Tama-mikuri*.

NOM. AINU. *Kanzaruski*.

HAB. *Yezo*. Oshima, Hidaka, Ishikari, Kushiro, Nemuro.

Kuriles. Urup.

Southern Saghalien. Odomari, Toyohara, Tomarioro, Shikka.

Northern Saghalien. Alexandrowsk.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Kyushu, Kamtchatka,
Northern Asia, Northern Europe and N. America.

var. **humile** Kudo, in Rep. Veg. N. Saghal. 45.

NOM. JAP. *Hime-tamanikuri*.

HAB. *Northern Saghalien*. Pronge-Baikal.

DISTRIB. Endemic form!

134. *Sparganium diversifolium* Graebn. in Schrift. Naturf. Ges. Danzig. N. F. IX. 335; Aschers. u. Graebn. Synops. Mitteleurop. Fl. I. 289; Graebn. in Engl. Pfl.-reich. IV. 10: 21.

NOM. JAP. *Hosoba-ukimikuri*.

HAB. *Yezo*. Ishikari.

Kuriles. Etorofu.

DISTRIB. Kuriles, Yezo, Europe and N. America.

135. *Sparganium minimum* Fries, Summa Veg. Scand. II. 560; Meinsh. in Mél. Biol. XIII. 393; Britt. & Br. Ill. Fl. I. 64; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. 291; Kawakami, in Tokyo Bot. Mag. XV. (218); Hegi, Ill. Fl. Mittel-Europ. I. 119; Graebn. in Engl. Pfl.-reich. IV. 10: 22; Taylor, North Am. Fl. XVII. 1: 10; Hult. Fl. Kamtch. I. 74; Kom. Fl. Kamtch. I. 111.

NOM. JAP. *Chishima-mikuri*.

HAB. *Kuriles*. Etorofu.

DISTRIB. Kuriles, Kamtchatka, Siberia, Europe and North America.

136. *Sparganium submuticum* Neum. in Hartm. Skand. Fl. 12, Uppl. 8; Ostenf. Fl. Arct. I. 18; Rothert, in Act. Hort. Bot. Univ. Imp. Jurjev. XI. 25; Koidz. in Tokyo Bot. Mag. XXXII. 60.

Sparganium natans L. β *submuticum* Hartman, Skand. Fl. ed. 5, 8.

Sparganium hyperboreum Laestadius in Wickstr. Arsberätt, ex Buerl. in Öfvers. Vet. Akad. Förhandl. IX. 192; Graebn. in Engl. Pfl.-reich. IV. 10: 23; Lange, Consp. Fl. Grönl. 116; Hult. Fl. Kamtch. I. 73; Kom. Fl. Kamtch. I. 110.

NOM. JAP. *Takane-mikuri*.

HAB. *Yezo*. Ishikari.

Kuriles. Etorofu.

DISTRIB. Kuriles, Yezo, Honshu, Kamtchatka, Northern Siberia, Europe and North America.

POTAMOGETONACEÆ

Zostera L.

137. *Zostera marina* L. Sp. Pl. ed. 1, 968; Kunth, Enum. Pl. III. 116; Ledeb. Fl. Ross. IV. 20; Cham. in Linnaea. IV. 497; Trautv. et Mey. Fl. Ochot. 89; Fr. Schm. Fl. Sachal. 179; Aschers. in Boiss. Fl. Orient. V. 25 et in Engl. u. Pr. Nat. Pfl.-fam. II. 1: 202, *f. 155, 156*; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. 297 et in Engl. Pfl.-reich. IV. 11: 28; Britt. & Br. Ill. Fl. I. 82; Kom. Fl. Mansh. I. 220; Rydberg, N. Am. Fl. XVII. 26; Nakai, Fl. Korea. II. 280; Kudo, Rep. Veg. N. Saghal. 45; Hult. Fl. Kamtch. I. 75; Kom. Fl. Kamtch. I. 112.

NOM. JAP. *Oku-moshiogusa*.

HAB. *Northern Saghalien*. Nyiwo, Pronge-Baikal.

DISTRIB. Northern Saghalien, Korea, Manchuria, Amur, Ochotsk, Kamtchatka, Asia Minor, Europe, Africa and N. America.

138. *Zostera pacifica* S. Watson, in Proc. Amer. Acad. XXVI. 131; Aschers. u. Graebn. in Engl. Pfl.-reich. IV. 11: 29; Miyabe & Miyake, Fl. Saghal. 514.

Zostera marina L. var.(?) *latifolia* Morong, in Bull. Torr. Bot. Club. XIII. 160.

Zostera latifolia Morong, in Mem. Torr. Bot. Club. III. 63.

Zostera marina Thunb. Fl. Jap. 232; Fr. et Sav. Enum. Pl. Jap. II. 14; Matsum. Ind. Pl. Jap. II. 1: 28, non L.

NOM. JAP. *Amamo*, *Moshiogusa*.

NOM. AINU. *Temmun*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Kitami, Kushiro.

Kuriles. Etorofu.

Southern Saghalien. Odomari.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Kyushu and Pacific coast of North America.

139. *Zostera nana* Roth, Enum. Pl. Germ. 1. 8; Ledeb. Fl. Ross. IV. 20; Aschers. in Boiss. Fl. Orient. V. 25; Aschers u. Graebn. Syn. Mitteleurop. Fl. I. 293 et in Engl. Pfl.-reich, IV. 11: 31; Kom. Fl. Kamtch. I. 113.

Zostera minor Nolite, ex Rchb. Ic. Fl. Germ. Helv. VII. 2.

Zostera Noltii Hornem. Fl. Dan., t. 2041.

Zostera pumila Le Gall. in Congr. Sc. France, XV. (1849) 96, (1850) 144.

NOM. JAP. *Hime-amano*. (nov.)

HAB. *Northern Saghalien*. Pronge-Baikal.

DISTRIB. Saghalien, Western Asia, Europe and Africa.

140. *Zostera japonica* Aschers. u. Graebn. in Engl. Pfl.-reich. IV. 11: 32; Hult. Fl. Kamtch. I. 75.

Zostera nana Fr. et Sav. Enum. Pl. Jap. II. 509; Makino, in Tokyo Bot. Mag. X. (318), non Roth.

NOM. JAP. *Ko-amamo*.

HAB. *Yezo*. Oshima.

Southern Saghalien. Odomari.

DISTRIB. Saghalien, Yezo, Honshu, Kyushu and Kamtchatka.

***Phyllospadix* Hook.**

141. *Phyllospadix Scouleri* Hook. Fl. Bor. Am. II. 171, t. 186; Rupr. in Mém. Acad. St. Petersb. 6 sér. IX. 2: 58, 64, t. 1, 2; Tanaka, in Tokyo Bot. Mag. XI. (163); Makino, in Tokyo Bot. Mag. XIII. 269; Matsum. Ind. Pl. Jap. II. 1: 24; Aschers. u. Graebn. in Engl. Pfl.-reich. IV. 11: 36; Rydberg, in North Am. Fl. XVII. 1: 30; Miyabe & Miyake, Fl. Saghal. 515; Kudo, Contr. Fl. N. Saghal. 19, et Rep. Veg. N. Saghal. 45.

NOM. JAP. *Sugamo*, *Gomo*, *Umisuge*.

NOM. AINU. *Temmun*.

HAB. *Yezo*. Oshima, Okushiri, Shiribeshi, Hidaka, Ishikari, Kitami, Kushiro.

Kuriles. Kunashiri, Etorofu.

Southern Saghalien. Todomoshiri, Odomari, Mauka, Motodomari, Shikka.

Northern Saghalien. Alexandrowsk, Pronge-Baikal, Schmidt-Penn.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu and Pacific coast of North America.

Potamogeton L.

142. *Potamogeton natans* L. Sp. Pl. ed. 1, 126; Kunth, Enum. Pl. III. 127; Ledeb. Fl. Alt. I. 156 et Fl. Ross. IV. 23; Miq. Prol. Fl. Jap. 325; Fr. Schm. Fl. Sachal. 179; Rgl. Tent. Fl. Ussuri. 152; Fr. et Sav. Enum. Pl. Jap. II. 14; Hook. f. Fl. Brit. Ind. IV. 165; A. Benn. in Bull. Herb. Boiss. IV. 540 et in Jour. Linn. Soc. Bot. XXXVI. 165; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. 303, et in Engl. Pfl.-reich, IV. 11: 42; Britt. & Br. Ill. Fl. I. 66; Makino, in Tokyo Bot. Mag. IV. (302) et (420); Kom. Fl. Mansh. I. 221; N. Taylor, in North Am. Fl. XVII. 1: 16; Matsum. et Hayata, Enum. Pl. Formos. 465; Hegi, Ill. Fl. Mittel-Europ. I. 123; Matsum. Ind. Pl. Jap. II. 1: 26; Nagai, Fl. Korea. II. 277; Miyabe & Miyake, Fl. Saghal. 510; Printz, Veg. Sib. Mong. Front. 114; Kudo, Rep. Veg. N. Saghal. 46; Kom. Fl. Kamtch. I. 115.

NOM. JAP. *Ohirumushiro*.

NOM. AINU. *Tokina*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Ishikari, Kushiro, Nemuro.

Kuriles. Kunashiri, Etorofu, Urup.

Southern Saghalien. Mauka, Tomarioro, Odomari, Motodomari.

Northern Saghalien. Alexandrowsk.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Shikoku, Kyushu, Formosa, Korea, Manchuria, Kamtchatka, Ussuri, Dahuria, Siberia, Kashmir, Caucasus, Arabia, Europe, Africa, N. America, Australia and New Zealand.

143. *Potamogeton torquatus* Koidz. in Tokyo Bot. Mag. XLIII. 397.

NOM. JAP. *Miyama-O-hirumushiro*.

HAB. *Yezo*. Ishikari.

DISTRIB. *Yezo* and Honshu.

144. *Potamogeton Morongii* A. Bennett, in Jour. Bot. XL. 145; Aschers. u. Graebn. in Engl. Pfl.-reich, IV. 11: 45; Matsum. Ind. Pl. Jap. II. 1: 26; Kudo, Contr. Fl. N. Saghal. 19, et Rep. Veg. N. Saghal. 46; Makino & Nemoto, Fl. Jap. 1519.

NOM. JAP. *Mehirumushiro*, *Moromushiro*.

HAB. *Northern Saghalien*. Nyiwo.

DISTRIB. *Saghalien* and Honshu.

145. *Potamogeton javanicus* Hassk. in Act. Soc. Ind.-Neerl. V. 1: 26; A. Benn. in Jour. of Bot. XXIX. 122, 154, et in Bull. Herb. Boiss. IV. 546; Matsum. Ind. Pl. Jap. II. 1: 25; Aschers. et Graebn. in Engl. Pfl.-reich. IV. 11: 46.

NOM. JAP. *Hime-hirumushiro*.

HAB. *Yezo*. Iburi, Kitami, Kushiro.

DISTRIB. *Yezo*, Honshu, Kyushu, Formosa, Korea, China, Java, India, Madagaskar, Africa and Australia.

146. *Potamogeton cristatus* Rgl. et Maack, in Rgl. Tent. Fl. Ussuri. 153, *t.* 10, *f.* 3-6; Diels, Fl. C. China, 220; Kom. Fl. Mansh. I. 266; A. Benn. in Jour. Linn. Soc. Bot. XXVI. 193; Matsum. Ind. Pl. Jap. II. 1: 24; Aschers. u. Graebn. in Engl. Pfl.-reich, IV. 11: 49; Nakai, Fl. Korea. II. 277.

Potamogeton hybridus Makino, in Tokyo Bot. Mag. I. 3, IV. 302, 420, et Ill. Fl. Jap. I. *t.* 55, nec Michx.

NOM. JAP. *Koba-no-hirumushiro*.

HAB. *Yezo*. Ishikari.

DISTRIB. *Yezo*, Honshu, Kyushu, Liukiu, Formosa, Korea, China, Manchuria and Ussuri.

147. *Potamogeton Franchetii* A. Benn. et Baag. in Jour. Bot. XLV. 234, *f.* 74; Aschers. et Graebn. in Engl. Pfl.-reich, IV. 11: 67; Hult. Fl. Kamtch. I. 76.

Potamogeton polygonifolius Fr. et Sav. Enum. Pl. Jap. II. 14; Makino,

in Tokyo Bot. Mag. IV. 302, 420, X. 58; A. Benn. in Bull. Herb. Boiss. IV. 546; Matsum. Ind. Pl. Jap. II. 1: 27; Koidz. Pl. Sachal. 12; Kom. Fl. Kamtch. I. 116, non Pourr.

Potamogeton natans L. var. *polygonifolius* Makino, in Tokyo Bot. Mag. I. 3.

Potamogeton Tepperi A. Benn. in Bull. Herb. Boiss. IV. 548; Matsum. Ind. Pl. Jap. II. 1: 28.

?*Potamogeton indicus* Benn. in Bull. Herb. Boiss. IV. 546; Matsum. Ind. Pl. Jap. II. 1: 25, non Roxb.

NOM. JAP. *Hirumushiro*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Kitami, Kushiro.

Kuriles. Kunashiri, Onnekotan.

Southern Saghalien. Odomari, Mauka.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu and Kamtchatka.

148. *Potamogeton microstachys* Wofg. in Roem. et Schultes, Mantissa, III. 360.

var. **typicus** Fernald in Rhodora XXXII. 80.

Potamogeton rufescens "forma *angustifolia*" Cham. et Schlecht. in Linnaea II. 211.

Potamogeton obrutus Wood, Class-Book, ed. 2. 525.

Potamogeton alpinus Balbis, Proles *microstachys* Graebn. in Engl. Pfl.-reich, IV. 11: 72.

Potamogeton alpinus A. Benn. in Jour. Bot. XLII. 72; Matsum. Ind. Fl. Jap. II. 1: 24; Miyabe & Miyake, Fl. Saghal. 511; Kudo, Fl. Paramushir, 67, Contr. Fl. N. Saghal. 19 et Rep. Veg. N. Saghal. 46, non Balbis.

NOM. JAP. *Hosoba-hirumushiro*.

HAB. *Yezo*. Oshima, Iburi, Ishikari, Kushiro.

Kuriles. Urup, Paramushir.

Southern Saghalien. Odomari, Shikka.

Northern Saghalien. Tymi, Nyiwo, Oha, Schmidt-Penn.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Manchuria, Amur, Siberia, Unalaska, Alaska and widely distributed in N. America.

149. *Potamogeton malainus* Miq. Fl. Arch. Ind. 46; A. Benn. in Jour. Bot. XXIX. 154; Aschers. u. Graebn. in Engl. Pfl.-reich, IV. 11: 83.

Potamogeton Gaudichaudii Cham. et Schl. in Linnaea. II. 199; A. Benn. in Jour. Linn. Soc. Bot. XXXVI. 194, et in Bull. Herb. Boiss. IV. 548; Matsum. Ind. Pl. Jap. II. 1: 25; Matsum. et Hayata, Enum. Fl. Formos. 464.

Potamogeton mucronatus Presl, Epimel. Bot. 245; Hook. f. Fl. Brit. Ind. VI. 567; Henry, List Pl. Formos. 101; A. Benn. in Ann. Naturw. Hofmus. Wien VII. 289; Makino, in Tokyo Bot. Mag. X. 58, non Schrad.

Potamogeton japonicus Fr. et Sav. Enum. Pl. Jap. II. 15; A. Benn. in Jour. Bot. XXX. 228; Nakai, in Tokyo Bot. Mag. XL. 146.

Potamogeton tretocarpus Maxim. apud A. Benn. in Jour. Bot. XXIX. 154; Makino, in Tokyo Bot. Mag. IV. 420, 174, V. 349.

Potamogeton Wrightii Morong, in Bull. Torr. Bot. Club. XIII. 158, t. 53; A. Benn. in Jour. of Bot. XXVIII. 298.

Potamogeton lucens Cuming, n. 1381, ex Vidal, Phan. Cuming Philipp. 155; Rolfe in Jour. Bot. XXIV. 60, non L.

NOM. JAP. *Sasabamo*, *Sajibamo*.

HAB. *Yezo*. Kitami.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Liukiu, Formosa, Korea, China, Tibet, Philippines, Celebes, Borneo, Malay, Guaja, Sumatra, Java and West Indies.

150. *Potamogeton gramineus* L. Sp. Pl. ed. 1. 127; Kunth, Enum. Pl. III. 130; Ledeb. Fl. Ross. IV. 25; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. 321 et in Engl. Pfl.-reich, IV. 11: 84; Kom. Fl. Mansh. I. 222; Hegi, Ill. Fl. Mittel-Europ. I. 130; Nakai, Fl. Korea. II. 278; Hult. Fl. Kamtch. I. 76; Kom. Fl. Kamtch. I. 118.

Proles *a. graminifolius* Fries, Novit. Fl. Suec. ed. 2. 36; Ledeb. l. c. 26; Fryer, in Jour. Bot. XXX. 33, f.; Aschers. u. Graebn. l. c. 322 et 86; Hegi, l. c.; Miyabe & Miyake, Fl. Saghal. 511; Kom. Fl. Kamtch. I. 119.

Potamogeton nipponicus Makino, Ill. Fl. Jap. I. 2. t. 56; A. Benn. in Bull. Herb. Boiss. IV. 547; Matsum. Ind. Pl. Jap. II. 1: 26; Aschers. u. Graebn. in Engl. Pfl.-reich. IV. 11: 89.

Potamogeton lucens L. var. Makino, in Tokyo Bot. Mag. I. 3, 5, t. II, f. B.

Potamogeton lucens L. var. *nipponica* Makino, in Tokyo Bot. Mag. IV. 421.

NOM. JAP. *Sasa-ebimo*, *Karafuto-sasamo*.

HAB. *Yezo*. Iburi.

Southern Saghalien. Odomari, Shikka.

Proles β . ***heterophyllus*** Fries, l. c. 37; Ledeb. l. c.; Aschers. u. Graebn. l. c. 323 et 87; Hegi, l. c.; Miyabe & Miyake, Fl. Saghal. 512; Kudo, Rep. Veg. N. Saghal. 47; Kom. l. c.

Potamogeton heterophyllus Schreb. Spicil. Fl. Lips. 21, emend. Mert. u. Koch, Deutschl. Fl. I. 843; Fryer, in Jour. Bot. XXV. 163; Hill, Bot. Gaz. XV. 148; Morong, in Mem. Torr. Bot. Club. III. 2; Britt & Br. Ill. Fl. I. 69; A. Benn. in Bull. Herb. Boiss. IV. 547; Matsum. Ind. Pl. Jap. II. 1: 25.

NOM. JAP. *Yezo-no-hirumushiro*.

HAB. *Yezo*. Iburi, Kushiro, Nemuro.

Southern Saghalien. Shikka.

Northern Saghalien. Pronge-Baikal.

DISTRIB. *sp.* Saghalien, *Yezo*, Honshu, Korea, Mongolia, Central Asia, Siberia, Kamtchatka, Europe and North America.

151. *Potamogeton gracilis* Wolfg. in Roem. et Schult. Mant. III. 355; Kunth, Enum. Pl. III. 139; A. Benn. in Jour. Bot. XXVIII. 299, et in Bull. Herb. Boiss. IV. 547.

Potamogeton gramineus var. *mongolicus* Maxim. sec. A. Benn. in Jour. Bot. XXVIII. 300.

Potamogeton alpinus $\times$ *gramineus* Aschers. et Graebn. Syn. Mittel-europ. Fl. I. 328, et in Engl. Pfl.-reich, IV, 11: 132.

NOM. JAP.

HAB. *Yezo*. Nemuro.

DISTRIB. *Yezo*, Mongolia, Siberia and Europe.

152. *Potamogeton nitens* Weber in Wigg. Prim. Fl. Holsat. Suppl. 11; Kunth, Enum. Pl. III. 131; Aschers. et Graebn. Syn. Mitteleurop. Fl. I. 325, et in Engl. Pfl.-reich, IV. 11: 89; A. Benn. in Jour. Bot. XXXVIII. 126; Taylor, in North Am. Fl. XVII. 27.

NOM. JAP.

HAB. *Yezo*. Nemuro.

DISTRIB. *Yezo*, Europe and N. America.

153. *Potamogeton perfoliatus* L. Sp. Pl. ed. 1. 126; Kunth, Enum. Pl. III. 133; Ledeb. Fl. Alt. I. 158, et Fl. Ross. IV. 27; Rgl. et Til. Fl. Ajan. 120; Maxim. Prim. Fl. Amur. 267; Fr. Schm. Fl. Sachal. 179; Hook. f. Fl. Brit. Ind. VI. 566; Makino, in Tokyo Bot. Mag. I. 3, 5, *f. a*, et IV. 421; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. 313, et in Engl. Pfl.-reich, IV. 11: 92; Britt. & Br. Ill. Fl. I. 71; A. Benn. in Bull. Herb. Boiss. IV. 546 et in Jour. Linn. Soc. Bot. XXXVI. 196; Kom. Fl. Mansh. I. 211; Matsum. Ind. Pl. Jap. II. I: 27; Hegi, Ill. Fl. Mittel-Europ. I. 127; Nakai, Fl. Korea. II. 278; Miyabe & Miyake, Fl. Saghal. 512; Printz, Veg. Sib. Mong. Front. 114; Kudo, Contr. Fl. N. Saghal. 20, et Rep. Veg. N. Saghal. 47; Hult. Fl. Kamtch. I. 79; Kom. Fl. Kamtch. I. 117.

NOM. JAP. *Hirohano-ebimo*.

HAB. *Yezo*. Oshima, Kushiro, Nemuro.

Kuriles. Kunashiri, Etorofu, Urup.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Shikoku, Korea, China, Manchuria, Mongolia, Amur, Ussuri, Ajan. Kamtchatka, Siberia, Dahuria, Persia, Western Himalaya, Western Tibet, Europe, North America, Africa and Australia.

var. **sachalinensis** Lev'l. in Fedde, Repert. VIII. 285.

Potamogeton sachalinensis Lev'l. MSS.

NOM. JAP. *Nagaha-Hirobano-ebimo*.

HAB. *Yezo*. Tokachi, Kushiro.

Kuriles. Etorofu.

Southern Saghalien. Odomari, Ushoro, Shikka.

Northern Saghalien. Tymi, Nyiwo, Schmidt-Penn.

DISTRIB. Saghalien, Kuriles and Yezo.

154. *Potamogeton praelongus* Wulf. in Roem. et Schult. Arch. III. 3. 311; Kunth, Enum. Pl. III. 133; Ledeb. Fl. Ross. IV. 27; A. Benn. in Jour. Bot. XXIV. 141 et XLII. 70; Rgl. et Til. Fl. Ajan. 120; Kawakami, in Tokyo Bot. Mag. XII. (225); Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. 315, et in Engl. Pfl.-reich, IV. 11: 96; Britt. & Br. Ill. Fl. I. 71; Matsum. Ind. Pl. Jap. II. 1: 27; Hegi, Ill. Fl. Mittel-Europ. I. 127; Smiley Univ. Calif. Publ. Bot. IX. 89; Miyabe et Kudo, Mater. Fl. Hokkaido, n. 135, in

Trans. Sapporo Nat. Hist. Soc. IX. 61; Hult. Fl. Kamtch. I. 79; Kom. Fl. Kamtch. I. 118.

NOM. JAP. *Nagaba-no-ebimo*, *Obano-ebimo*.

HAB. *Yezo*. Oshima, Iburi, Kushiro, Nemuro.

Kuriles. Etorofu.

DISTRIB. Kuriles, Yezo, Siberia, Ajan, Kamtchatka, Europe and North America.

155. *Potamogeton crispus* L. Sp. Pl. ed. 1. 126; Kunth, Enum. Pl. III. 133; Ledeb. Fl. Ross. IV. 28; Miq. Prol. Fl. Jap. 325; Hook. f. Fl. Brit. Ind. VI. 566; Fr. et Sav. Enum. Pl. Jap. II. 15; Makino, in Tokyo Bot. Mag. I. 3, et IV. 421; Britt. & Br. Ill. Fl. I. 72; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I, 335, et in Engl. Pfl.-reich, IV. 11: 97; Kom. Fl. Mansh. I. 223; A. Benn. in Jour. Linn. Soc. Bot. XXXVI. 193 et in Bull. Herb. Boiss. IV. 548; Matsum. Ind. Pl. Jap. II. 1: 24; Matsum. et Hayata, Enum. Pl. Formos. 465; Hegi, Ill. Fl. Mittel-Europ. 1. 132; Nakai. Fl. Korea. II. 279.

var. ***serrulatus*** Reichb. Icon. Fl. Germ. VII. 18. *t.* 30, *f.* 52; Aschers. u. Graebn. Syn. Mitteleur. Fl. I. 336, et in Engl. Pfl.-reich, IV. 11: 99.

NOM. JAP. *Ebimo*.

HAB. *Yezo*. Oshima, Kushiro.

DISTRIB. *sp.* Yezo, Honshu, Liukiu, Formosa, Korea, Manchuria, Siberia, Temperate Himalaya, India, Europe, Africa, North America and Australia.

156. *Potamogeton compressus* L. Sp. Pl. ed. 1. 127; Ledeb. Fl. Ross. IV. 29; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. 339, et in Engl. Pfl.-reich, IV. 11: 102; Kom. Fl. Mansh. I. 225; Hegi, Ill. Fl. Mittel-Europ. I. 132; Miyabe & Kudo, Mater. Fl. Hokkaido, n. 136, in Trans. Sapporo Nat. Hist. Soc. IX. 62; Kom. Fl. Kamtch. I. 119.

Potamogeton zosteraefolium Schum. Enum. Pl. Saelland. I. 50; Kunth, Enum. Pl. III. 134; Kawakami, in Tokyo Bot. Mag. XII. (225); A. Benn. in Bull. Herb. Boiss. IV. 547; Matsum. Ind. Pl. Jap. II. 1: 28; Hult. Fl. Kamtch. I. 80.

Potamogeton complanatum Willd. in Mag. Ges. Naturforsch. Freunde Berlin, V. 297; A. Benn. in Jour. of Bot. XXIV. 140, 362.

NOM. JAP. *Akanko-mo*, *Yezo-yanagimo*.

HAB. *Yezo*. Oshima, Iburi, Kushiro.

DISTRIB. *Yezo*, Honshu, Korea, Manchuria, Amur, Kamtchatka, Siberia, Europe and North America.

157. *Potamogeton sibiricus* A. Benn. in Jour. of Bot. XXVIII. 300; Aschers. et Graebn. in Engl. Pfl.-reich, IV. 11: 104; Koidz. in Tokyo Bot. Mag. XLIII. 397.

NOM. JAP. *Yezo-yanagimo*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Ishikari.

DISTRIB. *Yezo* and E. Siberia.

158. *Potamogeton oxyphyllus* Miq. in Ann. Mus. Bot. Lugd. Bat. III. 161 et Prol. Fl. Jap. 325; Fr. et Sav. Enum. Pl. Jap. II. 15; Makino, in Tokyo Bot. Mag. I. 4, IV. 421; A. Benn. in Jour. Linn. Soc. Bot. XXXVI. 195 et in Bull. Herb. Boiss. IV. 547; Matsum. Ind. Pl. Jap. II. 1: 26; Aschers. u. Graebn. in Engl. Pfl.-reich, IV. 11: 105; Nakai, Fl. Korea. II. 278.

NOM. JAP. *Sasamo*, *Yanagimo*.

HAB. *Yezo*. Hidaka.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu and Korea.

var. **Fauriei** A. Benn. in Bull. Herb. Boiss. V. 76 et in Journ. of Bot. XLII. 76; Matsum. l. c.; Aschers. u. Graebn. l. c. 105.

HAB. *Yezo*. Oshima.

DISTRIB. *Yezo* and Honshu.

159. *Potamogeton pusillus* L. Sp. Pl. ed. 1. 127; Kunth, Enum. Pl. III. 136; Ledeb. Fl. Alt. I. 159, et Fl. Ross. IV. 29; Rgl. Tent. Fl. Ussuri. 152; Miq. Prol. Fl. Jap. 325; Fr. Schm. Fl. Sachal. 179; Fr. et Sav. Enum. Pl. Jap. II. 15; Hook. f. Fl. Brit. Ind. VI. 567; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. 344, et in Engl. Pfl.-reich, IV. 11: 113; Britt. & Br. Ill. Fl. I. 75; Makino, in Tokyo Bot. Mag. I. 4, IV. 421, X. 58; Kom. Fl. Mansh. I. 225; Benn. in Jour. Linn. Soc. Bot. XXXVI. 196 et in Bull. Herb. Boiss. IV. 546; Matsum. Ind. Pl. Jap. II. 1: 27; Hegi, Ill. Fl. Mittel-Europ. I. 134; Nakai, Fl. Korea. II. 279; Miyabe & Miyake, Fl. Saghal. 513; Prinz,

Veg. Sib. Mong. Front. 114; Hult. Fl. Kamtch. I. 80; Kom. Fl. Kamtch. I. 121.

NOM. JAP. *Itomo*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Kushiro, Nemuro.

Southern Saghalien. Odomari, Ushoro, Shikka.

DISTRIB. Saghalien, Yezo, Honshu, Shikoku, Kyushu, Liukiu, Korea, China, Himalaya, Mongolia, Manchuria, Kamtchatka, Siberia, Europe, Africa, North and South America.

var. **elongatus** A. Benn. in Macoun, Cat. Canad. Pl. V. 371, et in Jour. Bot. XXIX. 151; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. 345, et in Engl. Pfl.-reich, IV. 11: 115.

HAB. *Yezo*. Iburi.

DISTRIB. Yezo, Europe and North America.

160. Potamogeton pectinatus L. Sp. Pl. ed. 1. 127; Kunth, Enum. Pl. III. 137; Ledeb. Fl. Ross. IV. 30; Hook. f. Fl. Brit. Ind. VI. 567; Rgl. et Til. Fl. Ajan. 120; Makino, in Tokyo Bot. Mag. I. 46, IV. 421, et V. 338; A. Benn. in Bull. Herb. Boiss. IV. 546, et in Jour. Linn. Soc. Bot. XXXVI. 195; Hemsl. Fl. Tib. in Jour. Linn. Soc. Bot. XXXV. 200; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. 349, et in Engl. Pfl.-reich, IV. 11: 121; Britt. & Br. Ill. Fl. I. 77; Matsum. Ind. Pl. Jap. II. 1: 27; Matsum. et Hayata, Enum. Pl. Formos. 465; Hegi, Ill. Fl. Mittel-Europ. I. 137; Simpson, in Jour. Linn. Soc. Bot. XLI. 448; Nakai, Fl. Korea. II. 279; Miyabe & Miyake, Fl. Saghal. 513; Printz, Veg. Sib. Mong. Front. 115; Kudo, Rep. Veg. N. Saghal. 48; Hult. Fl. Kamtch. I. 78; Kom. Fl. Kamtch. I. 122.

NOM. JAP. *Ryu-no-higemo*.

HAB. *Yezo*. Kushiro.

Southern Saghalien. Odomari, Ushoro, Shikka.

Northern Saghalien. Pronge-Baikal.

DISTRIB. Saghalien, Yezo, Honshu, Shikoku, Liukiu, Formosa, Korea, Kamtchatka, Siberia, China, Mongolia, India, Himalaya, Tibet, Ceylon, Europe, Africa, North America, South America, Australia and New Zealand.

var. **vaginatus** Aschers. et Graebn. Syn. Mitteleurop. Fl. I. 351, et in

Engl. Pfl.-reich, IV. 11: 124.

Potamogeton vaginatus Turcz. in Bull. Soc. Natur. Mosc. (1837) 102.

NOM. JAP.

HAB. *Southern Saghalien*. Odomari.

DISTRIB. Saghalien, Siberia and Northern Europe.

161. *Potamogeton filiformis* Pers. Synops. I. 152; Cham. et Schlechtd. in Linnaea II. 167; A. Benn. in Jour. of Bot. XXVIII. 301; Aschers. et Graebn. Syn. Mitteleurop. Fl. I. 352, et in Engl. Pfl.-reich, IV. 11: 126; Britt. & Br. Ill. Fl. I. 77; Taylor, in North Amer. Fl. XVII, 24; Hult. Fl. Kamtch. I. 76; Kom. Fl. Kamtch. I. 122.

NOM. JAP. *Hosoba-ryunohigemo*.

HAB. *Yezo*. Kushiro..

Southern Saghalien. Shikka.

DISTRIB. Saghalien, Yezo, Kamtchatka, Siberia, China, Mongolia, Tibet, Pamir, Africa, Europe and N. America.

162. *Potamogeton Maackianus* A. Benn. in Jour. Bot. XLII. 74; Matsum. Ind. Pl. Jap. II. 1: 26; Aschers. u. Graebn. in Engl. Pfl.-reich, IV. 11: 107; Nakai, Fl. Korea. II. 279; Miyabe & Kudo, Mater. Fl. Hokkaido, n. 137, in Trans. Sapporo Nat. Hist. Soc. IX. 62; Hult. Fl. Kamtch. I. 77.

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

Potamogeton Robbinsii Oakes var. *japonicus* A. Benn. in Bull. Herb. Boiss. IV. 549; Kawakami, in Tokyo Bot. Mag. XII. (22).

Potamogeton Robbinsii Makino, in Tokyo Bot. Mag. I. 4, 6, non Oakes..

NOM. JAP. *Sennin-mo*.

HAB. *Yezo*. Oshima, Iburi, Tokachi, Kushiro, Nemuro.

Kuriles. Urup.

DISTRIB. Kuriles, Yezo, Honshu, Korea, China, Manchuria, Ussuri and Kamtchatka.

NAJADACEÆ

Najas L.

163. *Najas marina* L. Sp. Pl. ed. 1, 1015; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. 368; Britt. & Br. Ill. Fl. I. 80; Kom. Fl. Mansh. I. 227; Nakai, Fl. Korea. II. 274; Rendl. in Engl. Pfl.-reich, IV. 12: 7; Hegi, Ill. Fl. Mittel-Europ. I. 145; Taylor, in North Am. Flora, XVII. 1: 33.

Najas major Allion. Fl. Pedem. II. 221; Ledeb. Fl. Ross. IV. 20; Rgl. Tent. Fl. Ussuri. 139; Fr. et Sav. Enum. Pl. Jap. II. 13; Matsum. Ind. Pl. Jap. II. 1: 29.

NOM. JAP. *Ibaramo*.

HAB. *Yezo*. Oshima, Kushiro.

DISTRIB. *sp.* *Yezo*, Honshu, Kyushu, Korea, Manchuria, Ussuri, China, Siberia, Malay Archipelago, East Indies, Ceylon, Turkestan, Afghanistan, Central Asia, Europe, Africa, N. America, Hawai and Australia.

164. *Najas* (*Euvaginata*) *yezoensis* Miyabe, sp. nov.

Caules filiformes, 10–25 cm longi, .5–.7 mm lati, valde ramulosi. Folia viridissima, subrigida, anguste-linearia, opposita vel fasciculata, 2.3–3 cm longa, .3 mm lata, apice obtusa, margine denticulata, denticulis spinescentibus utroque latere 11–25 in numero, inferioribus remotis. Vagina auriculata, auriculis rotundatis et denticulatis, denticulis acutiusculis 6–8. Fructus elongato-ellipsoideus et symmetricus, 2.5–3 mm longus, areolis irregulariter oblongis vel elongatis in circa 50 seriebus dispositis. Stylus 7–12 mm longus, stigmatibus duobus brevibus divergentibus.

NOM. JAP. *Ito-ibaramo*.

HAB. *Yezo*. Prov. Kushiro, in Lake Toro, (K. Miyabe, Sept. 20, 1927; Y. Odagiri, Sept. 14, 1929).

DISTRIB. Endemic.

The species under consideration is most closely related to *Najas gracillima* Magn. of North America, from which it differs by the shape of the fruit, as well as by the number of the rows of areolæ and their shape.

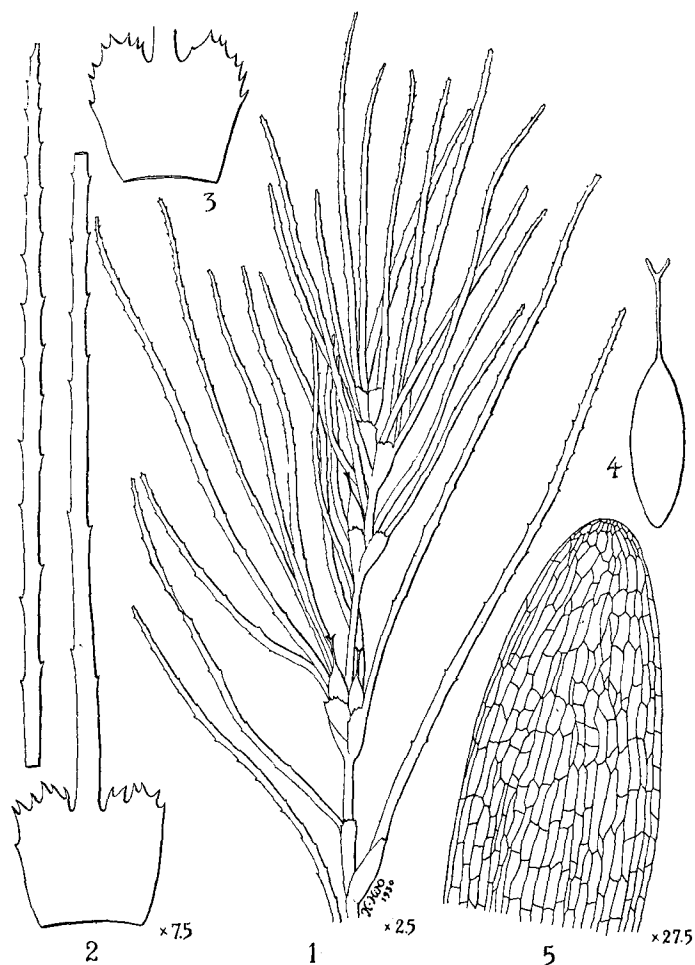


Fig. 1. *Najas yezoensis* Miyabe.

1. Upper portion of the stem. ($\times 2.5$).
2. A leaf with vagina. ($\times 7.5$).
3. Vagina. ($\times 7.5$).
4. Fruit. ($\times 7.5$).
5. Areolation of the wall of the fruit. ($\times 27.5$).

The style is longer in our species, in which the leaves are deep-green and subrigid, and the teeth are found even from the basal portion, where they are more distantly placed.

Prof. M. L. Fernald of the Gray Herbarium, Harvard University, has most kindly sent us a characteristic specimen of *Najas gracillima*, and expressed his opinion that the Japanese plant constitutes a distinct and undescribed species.

The plant grows in a gravelly bottom at the depth of one foot and a half to three feet.

SCHEUCHZERIACEÆ

Triglochin L.

165. *Triglochin maritimum* L. Sp. Pl. ed. 1, 339; Kunth, Enum. Pl. III. 145; Ledeb. Fl. Ross. IV. 35; Maxim. Prim. Fl. Amur. 267; Miq. Prol. Fl. Jap. 71; Fr. Schm. Fl. Sachal. 179; Hook. f. Fl. Brit. Ind. VI. 563; Fr. et Sav. Enum. Pl. Jap. II. 17; Britt. & Br. Ill. Fl. I. 83; Aschers. u. Graeb. Syn. Mitteleurop. Fl. I. 376; Makino, in Tokyo Bot. Mag. IV. 419 et XXIV. (69); Kom. Fl. Mansh. I. 229; Buch. in Engl. Pfl.-reich. IV. 14: 8; Forb. & Hemsl. Ind. Fl. Sin. III. 192; Matsum. Ind. Pl. Jap. II. 1: 29; Koidz. Pl. Sachal. 13; Takeda, Fl. Shikotan 492; Simpson, in Jour. Linn. Soc. Bot. XLI. 448; Miyabe & Miyake, Fl. Saghal. 507; Nakai, in Tokyo Bot. Mag. XXVI. 96; Printz, Veg. Sib. Mong. Front. 115; Kudo, Contr. Fl. N. Saghal. 20, et Rep. Veg. N. Saghal. 48.

NOM. JAP. *Shibana*, *Umi-nira*, *Umi-zekisho*, *Hirobano-misakiso*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Kitami, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan.

Southern Saghalien. Odomari, Shikka.

Northern Saghalien. Alexandrowsk, Nyiwo.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Shikoku, Kyushu, Korea, Manchuria, Amur, China, Mongolia, Siberia, Himalaya, Tibet, Europe and N. America.

166. *Triglochin palustre* L. Sp. Pl. ed. 1, 338; Kunth, Enum. Pl. III. 143; Ledeb. Fl. Ross. IV. 35; Fr. Schm. Fl. Sachal. 179; Hook. f. Fl. Brit. Ind. VI. 563; Britt. & Br. Ill. Fl. I. 83; Hemsl. Fl. Tibet, in Jour. Linn. Soc. Bot. XXXV. 200; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I.

377; Kom. Fl. Mansh. I. 229; Buch. in Engl. Pfl.-reich, IV. 14: 9; Forb. & Hemsl. Ind. Fl. Sin. III. 192; Yabe et Yendo, in Tokyo Bot. Mag. XVIII. (173); Matsum. Ind. Pl. Jap. II. 1: 29; Koidz. Pl. Sachal. 13; Simpson, in Jour. Linn. Soc. Bot. XLI. 448; Miyabe & Miyake, Fl. Saghal. 508; Printz, Veg. Sib. Mong. Front. 116; Kudo, Pl. Paramushir, 67, Contr. Fl. N. Saghal. 20 et Rep. Veg. N. Saghal. 48; Hult. Fl. Kamtch. I. 81; Kom. Fl. Kamtch. I. 125.

NOM JAP. *Misakiso*, *Hosoba-no-misakiso*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Kushiro, Nemuro.

Kuriles. Kunashiri, Urup, Paramushir, Shumushu.

Southern Saghalien. Odomari, Toyohara, Shikka.

Northern Saghalien. Alexandrowsk, Pronge-Baikal.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, North Korea, Manchuria, China, Mongolia, Kamtchatka, Siberia, Himalaya, Tibet, Afghanistan, Asia Minor, North and South America.

Scheuchzeria L.

167. *Scheuchzeria palustris* L. Sp. Pl. ed. 1, 338; Kunth, Enum. Pl. III. 146; Ledeb. Fl. Ross. IV. 37; Fr. Schm. Fl. Sachal. 179; Makino, in Tokyo Bot. Mag. IV. 420; Britt. & Br. Ill. Fl. I. 84; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. 375; Kom. Fl. Mansh. I. 230; Buch. in Engl. Pfl.-reich, IV. 14: 15; Matsum. Ind. Pl. Jap. II. 1: 29; Miyabe & Miyake, Fl. Saghal. 508; Iishiba, in Tokyo Bot. Mag. XVII. (193); Hult. Fl. Kamtch. I. 82; Kom. Fl. Kamtch. I. 124.

NOM. JAP. *Horomuiso*, *Yezo-zekisho*, *Horiso*.

HAB. *Yezo*. Shiribeshi, Iburi, Ishikari, Teshio, Kushiro.

Kuriles. Kunashiri.

Southern Saghalien. Odomari.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Manchuria, Kamtchatka, Siberia, Europe and North America.

ALISMATACEÆ

Alisma L.

168. *Alisma Plantago* L. Sp. Pl. ed. 1, 342; Kunth, Enum. III. 148; Ledeb. Fl. Alt. II. 64, et Fl. Ross. IV. 39; Maxim. Prim. Fl. Amur. 267; Rgl. Tent. Fl. Ussuri. 140; Miq. Prol. Fl. Jap. 70, 356; Fr. et Sav. Enum. Pl. Jap. II. 16; Micheli, in DC. Monogr. Phan. III. 32; Hook. f. Fl. Brit. Ind. VI. 559; Korsh. Pl. Amur. 349; Britt. & Br. Ill. Fl. I. 85; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. 381; Kom. Fl. Mansh. I. 230; Diels, Fl. C. China, 220; Forb. & Hemsl. Ind. Fl. Sin. III. 189; Buch. in Engl. Pfl.-reich, IV. 15: 13; Hult. Fl. Kamtch. I. 82; Kom. Fl. Kamtch. I. 126.

var. ***canaliculatum*** Miyabe et Kudo comb. nov.

Alisma canaliculatum A. Br. et Bouche, Ind. Sem. Hort. Berol. 4; Buch. l. c. 15; Matsum. Ind. Pl. Jap. II. 1: 29.

Alisma Plantago L. var. *angustifolium* Makino, in Tokyo Bot. Mag. VIII. 380, et IX. 12; Matsum. l. c. 30, non Ledeb.

NOM JAP. *Hera-omodaka*.

HAB. *Yezo*. Oshima, Ishikari, Kushiro.

var. ***parviflorum*** Torr. Fl. N. U. S. I. 832; Makino, in Tokyo Bot. Mag. VIII. 379; Buch. l. c. 14; Matsum. l. c. 30; Koidz. Pl. Sachal. 14; Nakai, Fl. Korea. II. 273; Miyabe & Miyake, Fl. Saghal. 505; Kudo, Contr. Fl. N. Saghal. 20, et Rep. Veg. N. Saghal. 49.

NOM. JAP. *Saji-omodaka*.

NOM. AINU. *Tōkina*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Teshio, Kitami, Kushiro.

Southern Saghalien. Odomari, Tomarioro, Shikka.

Northern Saghalien. Alexandrowsk, Tim.

DISTRIB. *sp.* Saghalien, Yezo, Honshu, Kyushu, Liukiu, Korea, China, Amur, Manchuria, Kamtchatka, Siberia, Himalaya, Burma, Persia, Africa, Europe, N. America and Australia.

Sagittaria L.

169. *Sagittaria natans* Pall. It. III. 321, app. 753, n. 132, *t. G, f. 3*;

Georgi, Beschreb. d. Russ. Reich. III. 5: 1300; Buch. in Engl. Pfl.-reich, IV. 15: 46; Miyabe & Miyake, Fl. Saghal. 506; Printz, Veg. Sib. Mong. Front. 116; Hult. Fl. Kamtch. I. 82; Kom. Fl. Kamtch. I. 127.

Sagittaria alpina Willd. in Linn. Sp. Pl. ed. 4, IV. 410; Ledeb. Fl. Atl. IV. 247 et Fl. Ross. IV, 41; Kunth, Enum. Pl. III. 160; Turcz. Fl. Baic. Dah. III. 154; Rgl. Tent. Fl. Ussuri. 141.

NOM. JAP. *Karafuto-kuwai*.

HAB. *Yezo*. Tokachi.

Southern Saghalien. Shikka.

DISTRIB. Saghalien, Yezo, N. Korea, Ussuri, Siberia, Kamtchatka, Russia, Finnland and Sweden.

170. *Sagittaria sagittifolia* L. Sp. Pl. ed. 1, 933; Kunth, Enum. Pl. III. 156; Ledeb. Fl. Alt. IV. 247 et Fl. Ross. IV. 41; Maxim. Prim. Fl. Amur. 267; Rgl. Tent. Fl. Ussuri. 140; Miq. Prol. Fl. Jap. 70; Fr. et Sav. Enum. Pl. Jap. II. 16; Korsh. Pl. Amur. 394; Micheli, in DC. Monogr. Phan. III. 66; Hook. f. Fl. Brit. Ind. VI. 561; Aschers u. Graebn. Syn. Mitteleurop. Fl. I. 392; Kom. Fl. Mansh. I. 232; Buch. in Engl. Pfl.-reich, IV. 15: 46; Matsum. Ind. Pl. Jap. II. 1: 31; Forb. et Hemsl. Ind. Fl. Sin. III. 190; Nakai, Fl. Korea. II. 274.

Sagittaria trifolia L. Sp. Pl. ed. I, 933; Makino, in Jour. of Jap. Bot. I. 35; Makino & Nemoto, Fl. Jap. 1513.

Sagittaria sagittata Thunb. Fl. Jap. 242, non L.

NOM. JAP. *Omodaka*.

HAB. *Yezo*. Iburi, Kushiro.

DISTRIB. Yezo, Honshu, Shikoku, Kyushu, Formosa, Korea, Manchuria, China, Amur, Ussuri, Siberia, India, Java and Europe.

171. *Sagittaria Aginashi* Makino, in Tokyo Bot. Mag. XV. 104; Matsum. Ind. Pl. Jap. II. 1: 30; Makino & Nemoto, Fl. Jap. 1512.

Sagittaria sagittaeifolia L. var. *Aginashi* Makino, in Tokyo Bot. Mag. VI. 49.

NOM. JAP. *Aginashi*.

HAB. *Yezo*. Ishikari.

DISTRIB. Yezo and Honshu.

HYDROCHARITACEÆ

Hydrilla L. C. Rich.

172. *Hydrilla verticillata* Royle, Ill. Bot. Himal. t. 376; Caspary, in Pringsh. Jahrb. I. 494; Hook. f. Fl. Brit. Ind. V. 659; Forb. et Hemsl. Ind. Fl. Sin. III. 1; Aschers. u. Gürke, in Engl. u. Pr. Nat. Pfl.-fam. II. 1: 250, f. 184, a, b; Korsh. Pl. Amur. 394; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. 398; Kawakami, in Tokyo Bot. Mag. XII. (225); Diels, Fl. C. China. 220; Kom. Fl. Mansh. I. 237; Matsum. et Hayata, Enum. Pl. Formos. 405; Nakai, Fl. Korea. II. 216; Miyabe & Kudo, Mater. Fl. Hokkaido, n. 45, in Trans. Sapporo Nat. Hist. Soc. VI. 1.

Serpicula verticillata L. f. Suppl. 416.

Hydrilla verticillata Royle, var. *Roxburghii* Casp. l. c.; Miq. Prol. Fl. Jap. 159; Fr. et Sav. Enum. Pl. Jap. II. 17; Matsum. Ind. Pl. Jap. II. 1: 32.

Hydrilla japonica Miq. l. c.; Fr. et Sav. l. c. 18.

NOM. JAP. *Kuromo*.

HAB. *Yezo*. Iburi, Kitami, Kushiro.

DISTRIB. *Yezo*, Honshu, Kyushu, Liukiu, Formosa, Korea, Amur, Manchuria, China, Tropical Asia, Central Europe, Mauritius, Madagascar and Australia.

Vallisneria Mich.

173. *Vallisneria spiralis* L. Sp. Pl. ed. 1, 1015; Fr. et Sav. Enum. Pl. Jap. II. 18; Hook. f. Fl. Brit. Ind. V. 660; Aschers. u. Gürke, in Engl. u. Pr. Nat. Pfl.-fam. II. 1: 252, f. 185; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. 405; Britt. & Br. Ill. Fl. I. 93; Forb. et Hemsl. Ind. Fl. Sin. III. 2; Hegi, Ill. Fl. Mittel-Europ. I. 161, f. 75; Matsum. Ind. Pl. Jap. II. 1: 33; Nakai, Fl. Korea. II. 217; Miyabe & Kudo, Mater. Fl. Hokkaido, n. 46, in Trans. Sapporo Nat. Hist. Soc. VI. 1.

NOM. JAP. *Itomo*, *Sekishomo*.

HAB. *Yezo*. Oshima, Iburi, Ishikari, Kushiro.

DISTRIB. *Yezo*, Honshu, Kyushu, Korea, and widely distributed throughout Asia, Europe, Africa, Australia, and North America.

GRAMINEÆ*

Dimeria R. BR.

174. *Dimeria ornithopoda* Trin. Fund. Agrost. 167; Kunth, Enum. Pl. I. 472; Hook. f. Fl. Brit. Ind. VII. 164.

var. **tenera** Hack. Monogr. Androp. 80, et in Bull. Herb. Boiss. VII. 639; Matsum. in Tokyo Bot. Mag. XI. (442) et Ind. Pl. Jap. II. 1: 51; Makino & Nemoto, Fl. Jap. 1445; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 324.

Dimeria tenera Trin. in Mém. Acad. Pétersb. sér. 6, II. 335; Benth. Fl. Austr. VII. 523.

Dimeria stipaeformis Miq. Prol. Fl. Jap. 176; Fr. et Sav. Enum. Pl. Jap. II. 187; Engl. in Engl. Bot. Jahrb. IV. 50.

Andropogon stipaeformis Steud. Syn. I. 377.

NOM. JAP. *Ko-karimatagaya*.

HAB. *Yezo*. Ishikari.

DISTRIB. *Yezo*, Honshu, Kyushu, Liukiu, Formosa, Malay, India and Australia.

Imperata CYR.

175. *Imperata cylindrica* Beauv. Agrost. 165; Honda, in Tokyo Bot. Mag. XXXIX. 38.

Lagurus cylindricus L. Sp. Pl. ed. 1, 120.

Imperata arundinacea Cyr. Pl. Rar. Neap. II. 26; Kunth, Enum. Pl. I. 447; Bunge, Enum. Pl. China. Bor. 72; Steud. Syn. I. 405; Miq. Prol. Fl. Jap. 176; Maxim. Prim. Fl. Amur. 479; Benth. Fl. Austr. VII. 536; Fr. et Sav. Enum. Pl. Jap. II. 188; Hook. f. Fl. Brit. Ind. VII. 106; Hack. in DC. Monogr. Phan. VI. 92; Matsuda, in Tokyo Bot. Mag. XXVII. 168, et XXVIII. 16.

var. **Koenigii** Durand et Schinz ex A. Camus, in Rev. Bot. appli. Agric. colon. V. 42, 110.

* The authors are indebted to Dr. M. Honda for the identification of some of the critical species, especially those belonging to the genera *Agrostis*, *Calamagrostis* and *Poa*.

Saccharum Koenigii Retzius, Obs. V. 16.

Saccharum spicatum Thunb. Fl. Jap. 42, non L.

Imperata Koenigii Beauv. Agrost. 165; Roem. et Schl. Syst. II. 289.

Imperata Thunbergii Beauv. in Steud. Syn. I. 405.

Imperata arundinacea Cyr. var. *Koenigii* Benth. Fl. Hongk. 419; Hack. in Engl. Bot. Jahrb. VI. 50, et in DC. Monogr. Phanerog. VI. 94, et in Bull. Herb. Boiss. VII. 639 et sér. 2, IV. 526; Forb. et Hemsl. Ind. Fl. Sin. III. 346; Matsum. Ind. Pl. Jap. II. 1: 59; Matsum. et Hayata, Enum. Pl. Formos. 517; Nakai, Fl. Korea. II. 338 et in Tokyo Bot. Mag. XXVI. 46; Matsuda, in Tokyo Bot. Mag. XXVII. 105; Hayata, Icon. Pl. Formos. VII. 68.

Imperata arundinacea Cyr. var. *Koenigii* Benth. subvar. *glabrescens* Büse, Pl. Jungh. III. 366; Hack. in DC. Monogr. Phanerog. VI. 95, et in Bull. Herb. Boiss. sér. 2, III. 501; Nakai, Fl. Korea. II. 338.

NOM. JAP. *Chigaya*.

HAB. *Yezo*. Shiribeshi, Ishikari.

DISTRIB. *sp.* *Yezo*, Honshu, Kyushu, Bonin, Formosa, Korea, China, Amur, India, Senegal, South Europe, North Africa and Chili.

***Miscanthus* ANDERSS.**

176. *Miscanthus sinensis* Anderss. in Oefvers. Vetensk. Acad. Förhandl. XII. 166; Hack. Monogr. Androp. 105, excl. syn. *Saccharum japonicum*, et in Bull. Herb. Boiss. VII. 639 et ibidem sér. 2, III. 501; Forb. et Hemsl. Ind. Fl. Sin. III. 348; Matsum. Ind. Pl. Jap. II. 1: 63; Matsum. et Hayata, Enum. Pl. Formos. 518; Nakai, Fl. Korea. II. 339 et in Tokyo Bot. Mag. XXXI. 15; Gibbs, in Jour. Linn. Soc. Bot. XLII. 187; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 382.

Sacharum polydactylon L. var. β . Thunb. Fl. Jap. 43.

Erianthus japonicus Beauv. Agrost. 14.

Eulalia japonica Trin. in Mém. Ac. Sc. Pétersb. sér. 6, II. 333; Fr. et Sav. Enum. Pl. Jap. II. 189.

NOM. JAP. *Susuki*, *Obana*, *Hana-susuki*, *Hata-susuki*.

NOM. AINU. *Rabembe*, *Nupkaushi*.

HAB. *Yezo*. Iburi, Hidaka, Ishikari, Teshio.

DISTRIB. Yezo, Honshu, Shikoku Kyushu, Formosa, Korea, China, Borneo.

var. **decompositus** Nakai, in Tokyo Bot. Mag. XXXI. 16, (pro forma); Honda, in Nakai, Veg. Mt. Apoi, 74; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 384.

NOM. JAP. *Masuko-no-susuki*, *Masuko*.

NOM. AINU. *Rabembe*.

HAB. Yezo. Oshima, Koshima, Iburi, Hidaka, Ishikari, Teshio, Rishiri, Kitami, Kushiro.

Kuriles. Kunashiri.

DISTRIB. Kuriles, Yezo and Honshu.

177. *Miscanthus purpurascens* Anderss. in Oefvers. Vetensk. Acad. Förhandl. XII. 167; Hack. Monogr. Androp. 106, et in Bull. Herb. Boiss. VII. 639; Palib. Consp. Fl. Kor. III. 29; Kom. Fl. Mansh. I. 244; Nakai, Fl. Kor. II. 339; Takeda, Fl. Shikotan, 494.

Miscanthus sinensis var. *purpurascens* Rendle, in Journ. Linn. Soc. XXXVI. 348; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 385.

Miscanthus sinensis forma *purpurascens* Nakai, in Tokyo Bot. Mag. XXXI. 16.

NOM. JAP. *Murasaki-susuki*.

HAB. Yezo. Hidaka.

Kuriles. Shikotan.

Southern Saghalien. Todomoshiri, Mauka, Toyohara.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Korea, Manchuria and China.

178. *Miscanthus hidakanus* Honda, in Nakai, Veg. Mt. Apoi, 14, 74; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 379.

NOM. JAP. *Samani-susuki*.

HAB. Yezo. Hidaka.

DISTRIB. Yezo and Honshu.

179. *Miscanthus japonicus* Anderss. in Oefvers. Vetensk. Acad. Förhandl. XII. 166; Hack. Monogr. Androp. 197, et in Bull. Herb. Boiss.

VII. 639; Diels, Fl. C. China, 221; Forb. et Hemsl. Ind. Fl. Sin. III. 347; Matsum. Ind. Pl. Jap. II. 1: 64; Matsum. et Hayata, Enum. Pl. Form. 517; Nakai, in Tokyo Bot. Mag. XXXI. 13; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 380.

Saccharum polydactylon L. var. *a.* Thunb. Fl. Jap. 43.

Saccharum japonicum Thunb. in Trans. Linn. Soc. II. 328.

Saccharum praegrave Steud. Syn. I. 408.

NOM. JAP. *Tokiwa-susuki*, *Kan-susuki*, *Oni-susuki*, *Arihara*, *Arihara-susuki*.

HAB. *Yezo*. Ishikari.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Formosa, China, Malay, Philippine and Polynesia.

180. *Miscanthus sacchariflorus* Benth. et Hook. Gen. Pl. III. 1125, *in nota*; Franch. Pl. David. 327; Hack. Monogr. Androp. 102, et in Bull. Herb. Boiss. VII. 639; Korsh. Pl. Amur. 423; Kom. Fl. Mansh. I. 243; Forb. et Hemsl. Ind. Fl. Sin. III. 347; Matsum. Ind. Pl. Jap. II. 1: 65; Nakai, Fl. Korea. II. 339, et in Tokyo Bot. Mag. XXXI. 11; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 391.

Imperata sacchariflora Maxim. Prim. Fl. Amur. 331.

Imperata eulalioides Miq. Prol. Fl. Jap. 177; Fr. et Sav. Enum. Pl. Jap. II. 188.

Miscanthus Hackelii Nakai, in Tokyo Bot. Mag. XXIII. 107, et Fl. Korea. II. 334, *t. XX, f. 1*.

NOM. JAP. *Ogi*.

NOM. AINU. *Shiki*, *Nupki*.

HAB. *Yezo*. Oshima, Hidaka, Ishikari, Kushiro.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Korea, Manchuria. China, Amur and Ussuri.

***Microstegium* NEES**

181. *Microstegium vimineum* A. Camus, in Lecomte, Fl. Gén. Indo-Chine, VII. 260.

Andropogon vimineus Trin. in Mém. Acad. Pétersb. sér. 6, II. 268.

var. **imberbe** Honda, in Nakai, Veg. Mt. Apoi, 74; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 408.

Pollinia imberbis Nees, ex Steud. Syn. I. 410; Hack. Monogr. Androp. 177; Hook. f. Fl. Brit. Ind. VII. 117; Nakai, Fl. Korea. II. 340.

Pollinia imberbis Nees var. *genuina* Hack. l. c. 178, et in Bull. Herb. Boiss. VII. 640; Kom. Fl. Mansh. I. 249; Matsum. in Tokyo Bot. Mag. XI. (422) et Ind. Pl. Jap. II. 1: 79.

Pollinia japonica varr. *polystachya* et *monostachya* Fr. et Sav. Enum. Pl. Jap. II. 190, non Miq.

Arthraxon nodosus Kom. in Act. Hort. Petrop. XVIII. 448.

NOM. JAP. *Ashiboso*, *Keashiboso*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Ishikari.

DISTRIB. *Yezo*, Honshu, Kyushu, Korea, Manchuria and Temperate Himalaya.

182. *Microstegium nudum* A. Camus, in Lecomte, Fl. Gén. Indo-Chine, VII. 261; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 406.

Pollinia nuda Trin. in Mém. Acad. Pétersb. sér. 6, II. 307; Hack. Monogr. Androp. 178 et in Bull. Herb. Boiss. VII. 641; Hook. f. Fl. Brit. Ind. VII. 117; Forb. et Hemsl. Ind. Fl. Sin. III. 356; Matsum. Ind. Pl. Jap. II. 1: 80.

Pollinia japonica Miq. Ann. Mus. Bot. Lugd. Bat. II. 290, et Prol. Fl. Jap. 178.

Leptatherum japonicum Fr. et Sav. Enum. Pl. Jap. II. 190, 609.

Microstegium japonicum Koidz. in Tokyo Bot. Mag. XLIII, 394.

NOM. JAP. *Sasagaya*.

HAB. *Yezo*. Ishikari.

DISTRIB. *Yezo*, Honshu, Kyushu, Liukiu, China, Temperate Himalaya and South Africa.

Spodiopogon TRIN.

183. *Spodiopogon sibiricus* Trin. Fund. Agrost. 192; Ledeb. Fl. Ross. IV. 476; Maxim. Prim. Fl. Amur. 331; Rgl. Tent. Fl. Ussuri. 172; Fr. et Sav. Enum. Pl. Jap. II. 610; Korsh. Pl. Amur. 423; Matsum. in

Tokyo Bot. Mag. XI. (442) et Ind. Pl. Jap. II. 1: 84; Diels, Fl. C. China. 222; Kom. Fl. Mansh. I. 245; Hack. Monogr. Androp. 185, et in Bull. Herb. Boiss. VII. 641 et ibidem sér. 2, III. 501, sér. 2, IV. 532; Forb. et Hemsl. Ind. Fl. Sin. III. 353; Matsum. et Hayata, Enum. Pl. Formos. 521; Nakai, Fl. Korea. II. 341; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 401.

Andropogon sibiricus Steud. Syn. I. 398.

NOM. JAP. *O-aburasusuki*.

HAB. *Yezo*. Iburi.

DISTRIB. *Yezo*, Honshu, Kyushu, Formosa, Korea, Manchuria, China, Amur, Ussuri and Siberia.

var. **tomentosus** Koidz. in Tokyo Bot. Mag. XXIX. 311; Makino & Nemoto, Fl. Jap. 1501; Honda, in Nakai, Veg. Mt. Apoi, 75, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 402.

NOM. JAP. *Oni-aburasusuki*.

HAB. *Yezo*. Hidaka, Tokachi, Kushiro.

DISTRIB. Endemic.

184. *Spodiopogon cotulifer* Hack. Monogr. Androp. 187, et in Bull. Herb. Boiss. VII. 641, et ibidem sér. 2, III. 501; Hook. f. Fl. Brit. Ind. VII. 108; Palib. Consp. Fl. Korea. III. 29; Forb. et Hemsl. Ind. Fl. Sin. III. 351; Matsum. Ind. Pl. Jap. II. 1: 83; Matsum. et Hayata, Enum. Pl. Formos. 520; Nakai, Fl. Korea. II. 340.

Andropogon cotuliferum Thunb. Fl. Jap. 41.

Eulalia cotulifera Munro ex Miq. Prol. Fl. Jap. 177; Fr. et Sav. Enum. Pl. Jap. II. 189.

Miscanthus cotulifer Benth. in Jour. Linn. Soc. Bot. XIX. 65.

Eccoilopus andropogonoides Steud. Syn. I. 124.

NOM. JAP. *Abura-susuki*, *Jorogaya*.

HAB. *Yezo*. Without locality (ex Matsumura).

DISTRIB. *Yezo*, Honshu, Kyushu, Liukiu, Formosa, Korea, China and North India.

***Manisuris* L.**

185. *Manisuris latifolia* Ktze. Rev. Gen. Pl. II. 779; Honda, in Tokyo Bot. Mag. XXXIX. 275.

Rottboellia latifolia Steud. in Flora XXXI. 21, et Syn. I. 361; Hack. Monogr. Androp. 281, et in Bull. Herb. Boiss. VII. 641, et ibidem sér. 2, III. 501; Matsum. in Tokyo Bot. Mag. XI. (442), et Ind. Pl. Jap. II. 1: 81; Forb. et Hemsl. Ind. Fl. Sin. III. 362; Nakai, Fl. Korea. II. 341; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 371.

Isachamum latifolium Miq. Prol. Fl. Jap. 179; Fr. et Sav. Enum. Pl. Jap. II. 193, non Kunth.

var. **foliata** Honda, l. c. 275.

Rottboellia foliata Steud. Syn. Glum. I. 361.

NOM. JAP. *Hosoba-aiashi*.

HAB. *Yezo*. Iburi, Hidaka.

DISTRIB. *Yezo*, Honshu, Kyushu and Quelpart.

Ischæmum L.

186. *Ischæmum anthephroides* Miq. Prol. Fl. Jap. 357; Fr. et Sav. Enum. Pl. Jap. II. 193, p.p.; Hack. Monogr. Androp. 216.

Rottboellia anthephroides Steud. in Flora XXIX. 22.

Andropogon anthephroides Steud. Syn. I. 375.

var. **eriostachyum** Honda, in Tokyo Bot. Mag. XLI. 378, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 352.

Andropogon caricosus Thunb. Fl. Jap. 39, non L.

Ischaemum barbatum Miq. Prol. Fl. Jap. 179, non Retz.

Ischaemum anthephroides Fr. et Sav. l.c., p.p.; Hack. in Bull. Herb. Boiss. VII. 641; Matsum. Ind. Pl. Jap. II. 1: 60; Nakai, in Tokyo Bot. Mag. XXXIII. 3; Makino & Nemoto, Fl. Jap. 1458.

Ischaemum eriostachyum Hack. Monogr. Androp. 218; Matsum. l.c. 61; Makino & Nemoto, l.c.

Ischaemum anthephroides forma *minor* Hack. in Bull. Herb. Boiss. VII. 641.

NOM. JAP. *Ke-kamonoshita*.

HAB. *Yezo*. Oshima, Isl. Okushiri.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Korea and China.

***Arthraxon* BEAUV.**

187. *Arthraxon hispidus* Makino, in Tokyo Bot. Mag. XXVI. 214; Honda, in Tokyo Bot. Mag. XXXIX. 277; Koidz. Fl. Symb. Or.-Asiat. 70.

Phalaris hispida Thunb. Fl. Jap. 44; Willd. Sp. Pl. I. 330; Roem. et Schult. Syst. Veg. II. 407.

var. ***ciliaris*** Honda, in Nakai, Veg. Mt. Apoi, 73; Koidz. Fl. Symb. Or.-Asiat. 71; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 328.

Arthraxon ciliaris Beauv. Agrost. 111, t. 11, f. 6; Hook. f. Fl. Brit. Ind. VII. 145; Fr. et Sav. Enum. Pl. Jap. II. 187; Kom. Fl. Mansh. I. 248.

Arthraxon ciliaris Beauv. ssp. *Langsdorffii* 2. var. *genuinus* Hack. Monogr. Androp. 355 et in Bull. Herb. Boiss. VII. 642, et sér. 2, III. 501; Nakai, Fl. Korea. II. 343; Makino & Nemoto, Fl. Jap. 1421.

Arthraxon japonicus Miq. Prol. Fl. Jap. 176, p.p.

NOM. JAP. *Kobunagusa*, *Noge-kobunagusa*.

HAB. *Yezo*. Oshima, Iburi, Hidaka.

DISTRIB. *Yezo*, Honshu, Kyushu, Liukiu, Formosa, Korea, China, Manchuria, Malay, Burma, Ceylon, India and Australia.

var. ***cryptatherus*** Honda, in Tokyo Bot. Mag. XXXIX. 277.

Arthraxon ciliaris subsp. *Langsdorffii* var. *cryptatherus* Hack. Monogr. Androp. 355, et in Bull. Herb. Boiss. VII. 642; Makino & Nemoto, Fl. Jap. 1421.

Arthraxon ciliaris var. *cryptatherus* Matsum. Ind. Pl. Jap. II. 1: 39.

Arthraxon cryptatherus Koidz. in Tokyo Bot. Mag. XXXIX. 301.

NOM. JAP. *Shiro-kobunagusa*.

HAB. *Yezo*. Oshima.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Liukiu and Formosa.

***Zoysia* WILLD.**

188. *Zoysia japonica* Steud. Syn. I. 414; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 314.

Zoysia pungens Miq. Prol. Fl. Jap. 176; Fr. et Sav. Enum. Pl. Jap. II. 186; Kawakami, in Tokyo Bot. Mag. XI. 54, et XX. 201; Hack. in Bull. Herb. Boiss. sér. 2, IV. 527; Matsum. et Hayata, Enum. Pl. Formos. 516; Nakai, Fl. Korea. II. 344, et in Tokyo Bot. Mag. XXVI. 46; Hayata, Icon. Pl. Formos. VII. 68, non Willd.

Zoysia pungens Willd. var. *japonica* Hack. in Bull. Herb. Boiss. VII. 642; Matsum. Ind. Pl. Jap. II. 1: 87.

Osterdamia japonica Hitchc. in U. S. Dept. Agric. Bull. No. 772, 166; Honda, in Tokyo Bot. Mag. XXXVI. 112; Makino & Nemoto, Fl. Jap. 1467.

NOM. JAP. *Shiba*.

HAB. *Yezo*. Oshima, Iburi.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Liukiu, Bonin, Formosa and Korea.

189. *Zoysia macrostachya* Fr. et Sav. Enum. Pl. Jap. II. 187, 608; Kawakami, in Tokyo Bot. Mag. XI. 54; Hack. in Bull. Herb. Boiss. VII. 642 et sér. 2, IV. 523; Yubuki, in Tokyo Bot. Mag. XVI. 20; Matsum. Ind. Pl. Jap. II. 1: 87; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 316.

Ischaemum muticum Hack. apud Matsum. in Tokyo Bot. Mag. XI. 322; Hack. in Bull. Herb. Boiss. VII. 641; Matsum. Ind. Pl. Jap. II. 1: 61.

Osterdamia macrostachya Honda, in Tokyo Bot. Mag. XXXVI. 114; Makino & Nemoto, Fl. Jap. 1468.

NOM. JAP. *Onishiba*.

HAB. *Yezo*. Oshima.

DISTRIB. *Yezo*, Honshu, Shikoku and Kyushu.

Arundinella RADDI

190. *Arundinella hirta* Tanaka, in Bult. Sci. Fakult. Kjušu Imp. Univ. I. 196; Honda, in Nakai, Veg. Mt. Apoi, 73, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 304.

Poa hirta Thunb. Fl. Jap. 49.

Agrostis ciliata Thunb. Fl. Jap. 49.

Arundinella anomala Steud. Syn. I. 116; Miq. Prol. Fl. Jap. 164; Fr. et Sav. Enum. Pl. Jap. II. 165 et 597; Franch. Pl. David. 325; Korsh. Pl.

Amur. 423; Hack. in Bull. Herb. Boiss. VII. 643 et sér. 2, III. 501; Diels, Fl. C. China, 222; Palib. Consp. Fl. Korea. III. 27; Kom. Fl. Mansh. I. 252; Matsum. Ind. Pl. Jap. II. 1: 40; Nakai, Fl. Korea. II. 345.

Panicum mandschuricum Maxim. Prim. Fl. Amur. 328; Rgl. Tent. Fl. Ussuri. 171; Fr. Schm. Fl. Amg.-Bur. 73; Bak. & Moore, in Jour. Linn. Soc. Bot. XVII. 388.

Arundinella hirta Koidz. var. *ciliata* Koidz. in Tokyo Bot. Mag. XXXIX. 303.

NOM. JAP. *Todashiba*, *Barenshiba*.

HAB. *Yezo*. Oshima, Iburi, Tokachi, Kushiro.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Korea, Manchuria, Ussuri, Amur and China.

var. **livens** Honda, in Nakai, Veg. Mt. Apoi, 30, 73, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 308.

NOM. JAP. *Shiroke-todashiba*.

HAB. *Yezo*. Hidaka.

DISTRIB. Endemic.

***Paspalum* L.**

191. *Paspalum Thunbergii* Kunth, apud Steud. Syn. I. 28; Miq. Prol. Fl. Jap. 161; Fr. et Sav. Enum. Pl. Jap. II. 159; Hack. in Bull. Herb. Boiss. VII. 643; Diels, Fl. C. China, 223; Matsum. Ind. Pl. Jap. II. 1: 73; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 286.

Paspalum dissectum Thunb. Fl. Jap. 45, non L.

Paspalum mollipilum Steud. l.c. 20.

NOM. JAP. *Suzume-no-hie*.

HAB. *Yezo*. Oshima, Tokachi, Kushiro.

DISTRIB. *Yezo*, Honshu, Kyushu and Formosa.

***Isachne* R. Br.**

192. *Isachne globosa* O. Ktze. Rev. Gen. Pl. II. 778; Makino & Nemoto, Fl. Jap. 1457; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 279.

Milium globosum Thunb. Fl. Jap. 48.

Isachne australis R. Br. Prodr. 196; Kunth, Enum. Pl. I. 136; Miq. Prol. Fl. Jap. 164; Benth. Fl. Hongk. 414; Fr. et Sav. Enum. Pl. Jap. II. 164; Hack. in Bull. Herb. Boiss. VII. 643 et sér. 2, III. 501; Palib. Consp. Fl. Korea. III. 26; Diels, Fl. C. China, 223; Forb. et Hemsl. Ind. Fl. Sin. III. 321; Matsum. Ind. Pl. Jap. II. 1: 60; Nakai, Fl. Korea. II. 346; Tatewaki, Pl. Akan Reg. (44).

Panicum lepidotum Steud. in Flora XXIX. 19; A. Gray, Pl. Jap. 329.

NOM. JAP. *Chigo-zasa*.

HAB. *Yezo*. Oshima, Iburi, Ishikari, Kushiro.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Formosa, Korea, China, India, Java and Australia.

***Syntherisma* WALT.**

193. *Syntherisma sanguinale* Dulac, Fl. Hautes-Pyr. 77; Britt. & Br. Ill. Fl. I. 111; Nash, in North Am. Fl. XVII. 2: 154; Hitchc. in Contr. U. S. Nat. Herb. XVII. 3: 221, et in U. S. Dept. Agr. Bull. no. 772, 217; Honda, in Tokyo Bot. Mag. XXXVIII. 119, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 295.

Panicum sanguinale L. Sp. Pl. ed. 1, 57; Kunth, Enum. Pl. I. 82; Steud. Syn. I. 39; Benth. Fl. Honkg. 410, et Fl. Austral. VII. 469; Fr. et Sav. Enum. Pl. Jap. II. 163; Hack. in Bull. Herb. Boiss. VII. 643 et 723; Matsum. Ind. Pl. Jap. II. 1: 71, p.p.; Makino, in Tokyo Bot. Mag. XXIV. 320; Nakai, Fl. Korea. II. 348; Koidz. in Tokyo Bot. Mag. XXIX. 246; Makino & Nemoto, Fl. Jap. 1475.

Digitaria sanguinalis Scop. Fl. Carin. ed. 2, I. 52; Beauv. Agr. t. 10, f. 12; Ledeb. Fl. Ross. IV. 469; Maxim. Prim. Fl. Amur. 479; Forb. et Hemsl. Ind. Fl. Sin. III. 325; Matsuda, in Tokyo Bot. Mag. XXVIII. 318.

Paspalum sanguinale Lamk. Ill. 1. 176; Hook. f. Fl. Brit. Ind. VII. 13; Diels, Fl. C. China, 223; Palib. Consp. Fl. Korea. III. 26.

NOM. JAP. *Ko-mehijiwa*.

HAB. *Yezo*. Iburi, Ishikari.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Liukiu, Bonin, Korea, Amur, China, India, Himalaya, Caucasus, Europe and naturalized in North America.

var. **ciliare** Honda, in Tokyo Bot. Mag. XXXVIII. 120, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 295.

Panicum ciliare Retz. Obs. IV. 16; Roxb. Fl. Ind. I. 293; Kunth, Enum. Pl. I. 82; Steud. Syn. I. 39; Franch. in Mém. Sc. Nat. Cherbourg, XXIV. 267.

Panicum commutatum Nees, apud Hook. et Arn. Bot. Beech. Voy. 232; Benth. Fl. Hongk. 410; Fr. et Sav. Enum. Pl. Jap. II. 163.

Digitaria ciliaris Pers. Syn. I. 85; Miq. Prol. Fl. Jap. 164.

Digitaria commutata Schult. Mant. II. 262; Miq. Prol. Fl. Jap. 164.

Panicum sanguinale L. var. *ciliare* Gren. et Godr. Fl. de Fr. III. 451; Fr. et Sav. l.c.; Makino, in Tokyo Bot. Mag. X. 66, 314, et XXIV. 320; Hack. l.c.; Matsum. l.c.; Makino & Nemoto, l.c.

Digitaria sanguinalis Scop. var. *ciliare* Doell, Rhein Fl. 126; Forb. et Hemsl. Ind. Fl. Sin. III. 325.

Paspalum sanguinale Lam. var. *ciliare* Hook. f. Fl. Brit. Ind. VII. 15.

NOM. JAP. *Me-hijiwa*, *Me-hishiba*, *Ke-mehishiba*, *Ke-mehijiwa*, *Sumotori-gusa*.

HAB. *Yezo*. Oshima, Hidaka, Ishikari, Kushiro.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Formosa, Korea, warm regions of the other parts of Asia, Europe, Africa and Australia.

194. *Syntherisma Ischaemum* Nash, in North Am. Fl. XVII. 2: 151; Hitchc. in U. S. Dept. Agr. Bull. No. 772, 218; Honda, in Tokyo Bot. Mag. XXXVIII. 124, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 292.

Panicum lineare Krock. Fl. Siles. I. 95; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 66; Nakai, Fl. Korea. II. 346, non L.

Panicum Ischaemum Schreb. apud Schweigger Sp. Fl. Erlang. 16.

Panicum filiforme Thunb. Fl. Jap. 48, non L.

Digitaria humifusa Pers. Syn. Pl. I. 85; Forb. et Hemsl. Ind. Fl. Sin. III. 324.

Digitaria glabra Beauv. Agr. 51; Roem. et Schl. Syn. II. 471; Ledeb. Fl. Ross. IV. 468; Maxim. Prim. Fl. Amur. 328; Rgl. Tent. Fl. Ussuri. 171; Korsh. Pl. Amur. 423.

Panicum glabrum Gaudin, Agrost. Helv. I. 22; Trin. Diss. II. 83, et Sp. Gram. Icon. II. t. 149; Kunth, Enum. Pl. I. 83; Steud. Syn. I. 41;

Makino, in Tokyo Bot. Mag. X. 314; Hack. in Bull. Herb. Boiss. VII. 643; Matsum. Ind. Pl. Jap. II. 1: 70; Makino & Nemoto, Fl. Jap. 1472.

Digitaria violascens Link. Hort. I. 229; Merrill, in Philipp. Journ. Bot. (1906) 347; Matsuda, in Tokyo Bot. Mag. XXVIII. 318, 359; Hayata, Icon. Pl. Formos. VII. 65.

Panicum violascens Kunth, Gram. I. 33 et Enum. Pl. I. 84; Steud. Syn. I. 42; Hack. in Bull. Herb. Boiss. VII. 643, 721, 723, et sér. 2, III. 523; Matsum. Ind. Pl. Jap. II. 1: 73; Matsum. et Hayata, Enum. Pl. Formos. 506; Nakai, Fl. Korea. II. 348; Matsuda, in Tokyo Bot. XXV. 248, XXVII. 117.

Paspalum filiculme Nees; Miq. Prol. Fl. Jap. 162; Fr. et Sav. Enum. Pl. Jap. II. 159.

Paspalum filiforme Miq. Prol. Fl. Jap. 162, non Swartz.

Digitaria linearis Rostaf. in Verk. Zool. Bot. Ges. Wien, XXII. 99; Kom. Fl. Mansh. I. 254.

Syntherisma linearis Nash, in Bull. Torr. Bot. Club, XXII. 420; Britt. & Br. Ill. Fl. I. 111.

NOM. JAP. *Aki-mehijiwa*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari.

Southern Saghalien. Odomari, Toyohara.

DISTRIB. Saghalien, Yezo, Honshu, Kyushu, Liukiu, Formosa, Bonin, Korea, Amur, Ussuri, Central and Northern Asia, Caucasus, Europe and introduced in North America.

***Echinochloa* BEAUV.**

195. *Echinochloa crusgalli* Beauv. Agrost. 53; Roem. et Schl. Syst. II. 464; Ledeb. Fl. Ross. IV. 473; Maxim. Prim. Fl. Amer. 331; Rgl. Tent. Fl. Ussuri. 172; Korsh. Pl. Amur. 423; Hitchc. in U. S. Dept. Agr. Bull. no. 722, 238, f. 146; Honda, in Tokyo Bot. Mag. XXXVII. 119.

Panicum crusgalli L. Sp. Pl. ed. 1, 56; Steud. Syn. I. 47; Benth. Fl. Hongk. 411 et Fl. Austral. VII. 479; Fr. et Sav. Enum. Pl. Jap. II. 160; Hook. f. Fl. Brit. Ind. VII. 30; Hack. in Bull. Herb. Boiss. VII. 643; Diels, Fl. C. China, 223; Kom. Fl. Mansh. I. 256; Palib. Consp. Fl. Korea. III. 27; Forb. et Hemsl. Ind. Fl. Sin. III. 328; Matsum. et Hayata, Enum. Pl.

Formos. 501; Matsum. Ind. Pl. Jap. II. 1: 69; Nakai, Fl. Korea. II. 347; Hayata, Icon. Pl. Formos. VII. 60.

Oplismenus Crus-galli Don, Obs. Gram. Belg. 138; Kunth, Enum. Pl. I. 143; Miq. Prol. Fl. Jap. 162.

subsp. **genuina** Honda, var. **echinata** Honda, in Tokyo Bot. Mag. XXXVII, 120; Tatewaki, Pl. Akan Reg. (44); Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 264.

Panicum Crus-Galli var. *genuinum* Hack. apud Matsum. in Tokyo Bot. Mag. XI. (443) et in Bull. Herb. Boiss. VII. 643; Matsum. Ind. Pl. Jap. II. 1: 68; Nakai, Fl. Korea. II. 347, et in Tokyo Bot. Mag. XXVI. 9.

Panicum echinatum Trin. Diss. II. 137.

Oplismenus echinatus Kunth, Gram. I. 45, et Enum. Pl. I. 145.

NOM. JAP. *Mizu-bie*.

HAB. *Yezo*. Shiribeshi, Ishikari, Kushiro.

Southern Saghalien. Toyohara.

subsp. **submutica** Honda, var. **typica** Honda, in Tokyo Bot. Mag. XXXVII. 121.

Panicum Crus-Galli var. *submuticum* Mey.; Hack. ex Matsum. in Tokyo Bot. Mag. XI. 433, et Ind. Pl. Jap. II. 1: 69; Hack. in Bull. Herb. Boiss. VII. 644, et sér. 2, III. 501; Yabe, in Tokyo Bot. Mag. XVII. 126; Matsum. et Hayata, Enum. Pl. Formos. 502; Nakai, Fl. Korea. II. 347.

Panicum Crus-corvi L. Sp. Pl. ed. 1, 84.

Panicum Corvi Thunb. Fl. Jap. 46.

NOM. JAP. *Nobie*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Ishikari.

Southern Saghalien. Toyohara.

DISTRIB. *sp.* Saghalien, Yezo, Honshu, Shikoku, Kyushu, Liukiu, Bonin, Formosa, Korea, Manchuria, China, Amur, Ussuri, Siberia, India, Europe, Africa, America and Australia.

196. Echinochloa colona Link, Hort. Berol. II. 209; Miq. Fl. Ind. Bat. III. 463; Hitchc. in Contr. U. S. Nat. Herb. XVII. 3: 246, et U. S. Dept. Agr. Bull. No. 722, 238.

Panicum colonum L. Syst. Nat. ed. 10, II. 870; Trin. Spec. Gram. Icon. II. t. 160; Roxb. Fl. Ind. I. 299; Hook. et Arn. Bot. Beech. Voy. 232; Steud. Syn. I. 46; Benth. Fl. Hongk. 411, et Fl. Austral. VII. 478; Miq. Cat. Mus. Bot. Lugd.-Bat. I. 111; Fr. et Sav. Enum. Pl. Jap. II. 160; Hook. f. Fl. Brit. Ind. VII. 32; Hack. in Bull. Herb. Boiss. VII. 644; Diels, Fl. C. China, 223; Forb. & Hemsl. Ind. Fl. Sin. III. 326; Matsum. Ind. Pl. Jap. II. 1: 68.

Panicum Crus Galli var. *muticum* Hack. in Bull. Herb. Boiss. VII. 644; Matsum. Ind. Pl. Jap. II. 1: 69; Nakai, Fl. Korea. II. 347.

Echinochloa crusgalli Beauv. ssp. *colona* Honda, var. *typica* Honda, in Tokyo Bot. Mag. XXXVII. 122.

NOM. JAP. *Wase-bie*.

HAB. *Yezo*. Okushiri, Ishikari.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Formosa, Korea, and throughout warm regions generally.

***Panicum* L.**

197. *Panicum bisulcatum* Thunb. in Nog. Act. Soc. Sc. Upsal. VII. 41; Steud. Syn. I. 99; Honda, in Tokyo Bot. Mag. XXXVII. 26, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 249.

Panicum grassarium Thunb. Fl. Jap. 48.

Panicum acroanthum Steud. I. 87; Miq. Prol. Fl. Jap. 163; Fr. et Sav. Enum. Pl. Jap. II. 162; Hack. in Engl. Bot. Jahrb. VI. 49, et in Bull. Herb. Boiss. VII. 644 et sér. 2, III. 502; Forb. et Hemsl. Ind. Fl. Sin. III. 327; Makino, Gram. Jap. I. pl. 2; Matsum. Ind. Pl. Jap. II. 1: 346; Matsum. et Hayata, Enum. Pl. Formos. 500; Nakai, Fl. Korea. II. 346, et in Tokyo Bot. Mag. XXVI. 9; Hayata, Icon. Pl. Formos. VII. 64; Tatewaki, Pl. Akan Reg. (44); Makino & Nemoto, Fl. Jap. 1468.

NOM. JAP. *Nuka-kibi*.

HAB. *Yezo*. Oshima, Iburi, Ishikari, Kushiro,

DISTRIB. *Yezo*, Honshu, Kyushu, Liukiu, Formosa, China and Assam.

***Oplismenus* BEAUV.**

198. *Oplismenus undulatifolius* Beauv. Agrost. 54; Kunth, Enum.

Pl. I. 139; Hook. f. Fl. Brit. Ind. VII. 66; Fr. et Sav. Enum. Pl. Jap. II. 654; Hack. in Bull. Herb. Boiss. VII. 645 et sér. 2, III. 502; Diels, Fl. C. China, 223; Forb. et Hemsl. Ind. Fl. Sin. III. 338; Matsum. et Hayata, Enum. Pl. Formos. 510; Matsum. Ind. Pl. Jap. II. 1: 67; Nakai, Fl. Korea. II. 349; Makino & Nemoto, Fl. Jap. 1467; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 277.

Panicum undulatifolium Arduino, Aumad. Bot. Sp. Alter. 14. t. 4; Maxim. Prim. Fl. Amur. 479.

Oplismenus Burmanni Beauv. var. *pilosus* Owatari in Tokyo Bot. Mag. XI. (212).

NOM. JAP. *Ke-chijimizasa*.

HAB. *Yezo*. Ishikari.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Liukiu, Formosa, Korea, Amur, India, China, Europe and Tropical Africa.

Setaria BEAUV.

199. *Setaria lutescens* Hubbard, in Rhodora, XVIII. 232; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 237.

Panicum lutescens Weigel, Obs. Bot. 20.

Setaria glauca Beauv. Agrost. 51; Kunth, Enum. Pl. I. 149; Ledeb. Fl. Ross. IV. 471; Maxim. Prim. Fl. Amur. 330, 479; Miq. Prol. Fl. Jap. 163; Rgl. Tent. Fl. Ussuri. 172; Benth. Fl. Austral. VII. 492; Korsh. Pl. Amur. 423; Hack. in Bull. Herb. Boiss. VII. 645; Hook. f. Fl. Brit. Ind. VII. 79; Diels, Fl. C. China, 223; Kom. Fl. Mansh. I. 257; Palib. Consp. Fl. Korea. III. 28; Forb. et Hemsl. Ind. Fl. Sin. III. 335; Matsum. Ind. Pl. Jap. II. 1: 82; Matsum. et Hay. Enum. Pl. Formos. 510; Nakai, Fl. Korea. II. 350; Simpson, in Jour. Linn. Soc. Bot. XLI. 450; Matsuda, in Tokyo Bot. Mag. XXVII. 119; Hayata, Icon. Pl. Formos. VII. 67; Makino & Nemoto, Fl. Jap. 1498.

Panicum glaucum Trin. Diss. II. 162, et Sp. Gram. Icon. II. t. 195; Steud. Syn. I. 50; Benth. Fl. Hongk. 411; Fr. et Sav. Enum. Pl. Jap. II. 161, non L.

Ixaphorus glaucus Nash, in Britt. & Br. Ill. Fl. I. 126.

Chaetochloa lutescens Stuntz, in U. S. Dept. Agr. Bull. Pl. Ind. Inv.

Seeds, XXXI. (1912) 83; Hitchc. in U. S. Dept. Agr. Bull. no. 772, 243, f. 148.

Chaetochloa lutescens Stuntz *a. genuina* Honda, in Tokyo Bot. Mag. XXXVIII. 194.

NOM. JAP. *Kin-enokoro*, *Cha-enokoro*.

HAB. *Yezo*. Oshima, Ishikari.

Southern Saghalien. Odomari, Toyohara.

DISTRIB. Saghalien, Yezo, Honshu, Shikoku, Kyushu, Liukiu, Formosa, Korea, China, Amur, Ussuri, India, Caucasus, Senegal, Europe and America.

200. *Setaria viridis* Beauv. Agrost. 51; Kunth, Enum. Pl. I. 151; Ledeb. Fl. Ross. IV. 470; Maxim. Prim. Fl. Amur. 330, 479; Rgl. Tent. Fl. Ussuri. 172; Benth. Fl. Austral. VII. 494; Hack. in Bull. Herb. Boiss. VII. 645; Hook. f. Fl. Brit. Ind. VII. 80; Diels, Fl. C. China, 223; Kom. Fl. Mansh. I. 258; Palib. Consp. Fl. Korea. III. 28; Forb. et Hemsl. Ind. Fl. Sin. III. 336; Matsum. Ind Pl. Jap. II. 1: 83; Matsum. et Hayata, Enum. Pl. Formos. 511; Nakai, Fl. Korea. II. 350, et in Tokyo Bot. Mag. XXVI. 9; Simpson, in Jour. Linn. Soc. Bot. XLI. 451; Matsuda, in Tokyo Bot. Mag. XXV. 249, XXVII. 119, 169, XXVIII. 322; Miyabe & Miyake, Fl. Saghal. 557; Hayata, Icon. Pl. Formos. VII. 67; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 239.

Panicum viride L. Sp. Pl. ed. 2, 83; Trin. Diss. II. 163, et Spec. Gram. Icon. II. t. 203; Steud. Syn. I. 51; Fr. et Sav. Enum. Pl. Jap. II. 162.

Ixophorus viridis Nash, in Britt. & Br. Ill. Fl. I. 126.

Chaetochloa viridis Scribn. in U. S. Dept. Agr. Div. Agrost. Bull. IV. 39; Hitchc. in U. S. Dept. Agric. Bull. no. 772, 243; Koidz. in Tokyo Bot. Mag. XXXIX. 302.

Chaetochloa viridis Scribn. *a. genuina* Honda, in Tokyo Bot. Mag. XXVIII. 196.

NOM. JAP. *Enokorogusa*.

NOM. AINU. *Seta-munchiro*.

HAB *Yezo*. Oshima, Iburi, Ishikari, Rishiri.

Kuriles. Kunashiri.

Southern Saghalien. Odomari, Toyohara.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Kyushu, Liukiu, Formosa,

Korea, Amur, Ussuri, China, Dahuria, Siberia, Temperate Himalaya, Western Tibet, Caucasus, Europe and North America.

form. **misera** Honda, in Nakai, Veg. Mt. Apoi, 75, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 243.

NOM. JAP. *Hime-enokoro*.

HAB. *Yezo*. Hidaka.

DISTRIB. Endemic.

var. **japonica** Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 240. *Chaetochloa viridis* Scribn. var. *japonica* Koidz, in Tokyo Bot. Mag. XXXIX. 302; Tatewaki, Veg. Mt. Akan, 45.

NOM. JAP. *Kataba-enokorogusa*.

HAB. *Yezo*. Kushiro.

DISTRIB. *Yezo*, Honshu and Kyushu.

var. **purpurascens** Maxim. Prim. Fl. Amur. 330; Takeda, in Tokyo Bot. Mag. XXIV. 180; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 242.

Setaria purpurascens Humboldt, Bonp. et Kunth, Nov. Gen. et Sp. I. 110 et Syn. Pl. I. 184; Opitz, Boem. Gew. 12; Kunth, Enum. Pl. I. 151.

Panicum purpurascens Opitz, in Flora V. 266; Raddi, ex Nees Agrost. Bras. 240.

Setaria viridis Beauv. var. *Weinmanni* Brand, in Koch Syn. Deutsch. Fl. ed. 3, III. 2690; Hubbard, in Amer. Jour. Bot. II. 180.

Chaetochloa viridis Scribn. β . *purpurascens* Honda, in Tokyo Bot. Mag. XXXVIII. 197.

NOM. JAP. *Murasaki-enokorogusa*.

HAB. *Yezo*. Ishikari.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Korea and other places as in the type.

201. *Setaria pachystachys* Fr. et Sav. apud Matsum. Shokubutsu-Mei-I. 275, et in Tokyo Bot. Mag. XI. (443) et Ind. Pl. Jap. II. 1: 82; Hack. in Bull. Herb. Boiss. VII. 645 et sér. 2, IV. 528; Matsum. et Hayata, Enum. Pl. Formos. 511; Hayata, Icon. Pl. Formos. VII. 67.

Panicum pachystachys Fr. et Sav. Enum. Pl. Jap. II. 162, 594.

Chaetochloa viridis Scribn. var. *pachylstachys* Honda, in Tokyo Bot. Mag. XXXVIII. 198.

Chaetochloa viridis Scribn. var. *pachystachys* Honda, subvar. a. *typica* Honda, l.c.

NOM. JAP. *Hama-enokoro*.

HAB. *Yezo*. Oshima, Shiribeshi.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Liukiu, Formosa and Korea.

202. *Setaria gigantea* Makino, in Tokyo Bot. Mag. XXV. 227.

Panicum viride β. *gigantea* Fr. et Sav. Enum. Pl. Jap. II. 162.

Setaria viridis var. *gigantea* Matsum. Catal. Pl. Herb. Imp. Univ. Tokyo, 225; Kawakami, in Tokyo Bot. Mag. XI. 54.

Chaetochloa gigantea Honda, in Tokyo Bot. Mag. XXXVIII. 199.

Chaetochloa comosa Koidz. Fl. Symb. Or.-Asiat. 51.

var. ***pilosa*** Makino & Nemoto, Fl. Jap. 1498; Honda in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 236.

Chaetochloa gigantea β. *pilosa* Honda, l.c.

HOM. JAP. *Ke-enokoro*.

HAB. *Yezo*. Ishikari.

DISTRIB. *sp.* *Yezo*, Honshu, Liukiu, Korea and China.

Pennisetum PERS.

203. *Pennisetum purpurascens* Makino, in Tokyo Bot. Mag. XXVI. 294.

Cenchrus purpurascens Thunb. in Trans. Linn. Soc. II. 329.

Panicum hordeiforme L. γ. Thunb. Fl. Jap. 48, t. 9.

Pennisetum japonicum Trin. in Spr. Neue Entdeckte Pfl. II. 76, et Icon. Gram. II. 19; Hack. in Bull. Herb. Boiss. VII. 645 et sér. 2, III. 502; Kom. Fl. Mansh. I. 260; Palib. Consp. Fl. Korea. III. 28; Matsum. Ind. Pl. Jap. II. 1: 73; Nakai, Fl. Korea. II. 351; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 231.

Gymnothrix japonica Kunth, Enum. Pl. I. 158; Miq. Prol. Fl. Jap. 164; Fr. et Sav. Enum. Pl. Jap. II. 164.

Pennisetum compressum. R. Br. Prodr. 195; Forb. et Hemsl. Ind. Fl. Sin. III. 338.

NOM. JAP. *Chikarashiba*.

HAB. *Yezo*. Oshima.

DISTRIB. *Yezo*, Honshu, Kyushu, Formosa, Korea, Manchuria, China, Burma, Tonkin, Australia.

Zizania L.

204. *Zizania latifolia* Turcz. in Bull. Soc. Nat. Mosc. (1838) 105; Hitchc. in U. S. Dept. Agr. Bull. no. 772, 209; Fassett, in Rhodora, XXVI. 157; Honda, in Tokyo Bot. Mag. XXXIX. 34.

Zizania dahurica Turcz. ex Steud. Syn. Pl. Gram. 4.

Zizania palustris Sieb. in Verh. Batav. Gen. XII. 10, non L.

Zizania aquatica Hack. in Bull. Herb. Boiss. VII. 646, et sér. 2, III. 502; Forb. et Hemsl. Ind. Fl. Sin. III. 345; Matsum. Ind. Pl. Jap. II. 1: 87; Matsum. et Hayata, Enum. Pl. Formos. 514; Nakai, Fl. Korea. II. 352; Hayata, Icon. Pl. Formos. VII. 68, non L.

Zizania aquatica var. *latifolia* Kom. Fl. Mansh. I. 261.

Hydropyrum latifolium Griseb. in Ledeb. Fl. Ross. IV. 466; Maxim. Prim. Fl. Amur. 479; Regel, Tent. Fl. Ussuri. 171; Miq. Prol. Fl. Jap. 160; Fr. et Sav. Enum. Pl. Jap. II. 156.

NOM. JAP. *Makomo*.

HAB. *Yezo*. Oshima, Iburi, Ishikari, Kushiro.

DISTRIB. *Yezo*, Honshu, Kyushu, Formosa, Korea, China, Manchuria and Eastern Siberia.

Leersia SWARTZ.

205. *Leersia oryzoides* Solander, in Sw. Prodr. Veg. Ind. Occ. 21, et Fl. Ind. Occ. I. 132; Kunth, Enum. Pl. I. 5; Ledeb. Fl. Ross. IV. 466; Hook. f. Fl. Brit. Ind. VII. 94; Hack. in Bull. Herb. Boiss. VII. 645; Matsum. Ind. Pl. Jap. II. 1: 62.

Phalaris oryzoides L. Sp. Pl. ed. 1. 55.

Homalocenchrus oryzoides Poll. Hist. Pl. Palat. I. 52; Britt. & Br. Ill. Fl. I. 129; Hitchc. in U. S. Dept. Agr. Bull. no. 772, 206, f. 123; Honda, in Tokyo Bot. Mag. XXXIX. 35.

Oriza clandestina A. Br. Brandenb. II. 195; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 12; Hegi, Ill. Fl. I. 194.

NOM. JAP. *Yezo-no-sayanukagusa*.

HAB. *Yezo*. Ishikari.

DISTRIB. *Yezo*, Korea, Manchuria, Kashmir, Persia, Europe and North America; Honshu, Shikoku and Kyushu (var. *japonica* Honda).

Phalaris L.

206. *Phalaris arundinacea* L. Sp. Pl. ed. 1, 55; Kunth, Enum. Pl. I. 33; Thunb. Fl. Jap. 44; Fr. et Sav. Enum. Pl. Jap. II. 157; Hook. f. Fl. Brit. Ind. VII. 221; Hack. in Bull. Herb. Boiss. VII. 646 et sér. 2, III. 502; Miyabe, Fl. Kuril. 269; Kom. Fl. Mansh. I. 263; Britt. & Br. Ill. Fl. I. 130; Forb. & Hemsl. Ind. Fl. Sin. III. 379; Takeda, Fl. Shikotan, 495; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 23; Miyabe & Miyake, Fl. Saghal. 558; Printz, Veg. Sib. Mong. Front. 117; Kudo, Contr. Fl. N. Saghal. 20 et Rep. Veg. N. Saghal. 49; Hult. Fl. Kamtch. I. 83; Kom. Fl. Penins. Kamtsch. I. 130.

Digraphis arundinacea Trin. Fundam. Agrost. 127; Ledeb. Fl. Ross. IV. 454; Rgl. et Til. Fl. Ajan. 127; Maxim. Prim. Fl. Amur. 326; Rgl. Tent. Fl. Ussuri. 171; Fr. Schm. Fl. Sachal. 203; Korsh. Pl. Amur. 422.

Phalaris arundinacea L. *a. genuina* Hack. in Bull. Herb. Boiss. VII. 646; Matsum. Ind. Pl. Jap. II. 1: 74; Nakai, Fl. Korea. II. 352; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 224.

NOM. JAP. *Kusa-yoshi*.

HAB. *Yezo*. *Kitami*, *Kushiro*, *Nemuro*.

Kuriles. *Kunashiri*, *Shikotan*, *Etorofu*, *Urup*.

Southern Saghalien. *Odomari*, *Toyohara*, *Motodomari*, *Shikka*.

Northern Saghalien. *Alexandrowsk*, *Tymi*, *Schmidt-Penn*.

DISTRIB. *Saghalien*, *Yezo*, *Honshu*, *Shikoku*, *Kyushu*, *Manchuria*, *Amur*, *Ussuri*, *Ajan*, *Kamtchatka*, *Siberia*, *Caucasus*, *Kashmir*, *Europe* and *North America*.

var. **japonica** Hack. l.c.; Matsum. l.c.; Nakai, l.c.; Kudo, ll. cc.; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 224.

Phalaris japonica Steud. Syn. I. 11.

NOM. JAP. *Hosobo-kusayoshi*.

HAB. *Yezo*. Oshima, Ishikari, Kitami, Kushiro, Nemuro.

Kuriles. Kunashiri, Etorofu.

Southern Saghalien. Odomari, Tomarioro, Ushoro, Motodomari, Shikka.

Northern Saghalien. Alexandrowsk, Schmidt-Penn.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Shikoku and Korea.

207. *Phalaris canariensis* L. Sp. Pl. ed. 1, 54; Willd. Sp. Pl. I. 326; Kunth, Enum. Pl. I. 31; Ledeb. Fl. Ross. IV. 454; Britt. & Br. Ill. Fl. I. 131; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 18; Piper, Fl. St. Washgt. 106; Hegi, Ill. Fl. Mittel-Europ. I. 197, *t.* 24, *f.* 3; Miyabe & Miyake, Fl. Saghal. 558; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 223.

NOM. JAP. *Kanariya-kusayoshi*.

HAB. *Southern Saghalien*. Odomari.

DISTRIB. Native of Europe, and introduced into Saghalien and North America.

***Anthoxanthum* L.**

208. *Anthoxanthum odoratum* L. Sp. Pl. ed. 1, 28; Kunth, Enum. Pl. I. 38; Ledeb. Fl. Ross. IV. 408; Boiss. Fl. Orient. V. 470; Hook. f. Fl. Brit. Ind. VII. 222; Britt. & Br. Ill. Fl. I. 131; Hack. in Bull. Herb. Boiss. VII. 646; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 24; Makino, in Tokyo Bot. Mag. XVII. 211; Matsum. Ind. Pl. Jap. II. 1: 39; Hegi, Ill. Fl. Mittel-Europ. I. 198, *t.* 24, *f.* 4; Printz, Veg. Sib. Mong. Front. 117; Kudo, Rep. Veg. N. Saghal. 50; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 226.

NOM. JAP. *Harugaya*.

HAB. *Yezo*. Oshima, Ishikari, Rishiri.

Southern Saghalien. Odomari, Tomarioro.

Northern Saghalien. Oha, Schmidt-Penn.

DISTRIB. Saghalien, Yezo, Honshu, Siberia, Caucasus and Europe, and introduced into Northern Africa, America and Australia.

***Hierochloe* GMEL.**

209. *Hierochloe odorata* Wahlenb. Fl. Upsal. 32; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 29; Kom. Fl. Mansh. I. 264; Miyabe & Miyake, Fl. Saghal. 559; Printz, Veg. Sib. Mong. Front. 118, et Pl. Sachal. 8 (var. *sachalinensis* Printz), t. 1; Kudo, Contr. Fl. N. Saghal. 20. et Rep. Veg. N. Saghal. 50; Hult. Fl. Kamtch. I. 85; Kom. Fl. Penins. Kamtsch. I. 131; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 220.

Savastana odorata Scribn. in Mem. Torr. Bot. Club, V. 34; Britt. & Br. III. Fl. I. 132.

Hierochloe borealis Roem. et Schl. Syst. Veg. II. 513; Kunth, Enum. Pl. I. 36; Ledeb. Fl. Ross. IV. 407; A. Gray, Bot. Jap. 329; Maxim. Prim. Fl. Amur. 322; Rgl. et Til. Fl. Ajan. 126; Miq. Prol. Fl. Jap. 151; Rgl. Tent. Fl. Ussuri. 169; Fr. Schm. Fl. Sachal. 201; Fr. et Sav. Enum. Pl. Jap. II. 157; Korsh. Pl. Amur. 419; Miyabe, Fl. Kuril. 269; Hack. in Bull. Herb. Boiss. VII. 646; Palib. Consp. Fl. Korea. III. 31; Forb. & Hemsl. Ind. Fl. Sin. III. 380; Matsum. Ind. Pl. Jap. II. 1: 58; Nakai, Fl. Korea. II. 353; Takada, Fl. Shikotan, 495.

Hierochloe Bungeana Trin. in Mém. Acad. Pétersb. sér. 5, VI. 82.

NOM. JAP. *Kobo*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Tokachi, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Etorofu.

Southern Saghalien. Odomari, Honto, Tomarioro, Ushoro, Toyohara, Motodomari, Shikka.

Northern Saghalien. Alexandrowsk, Tim, Tymi, Nyiwo, Chaiwo.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Korea, Manchuria, Mongolia, Kamtchatka, Siberia, Europe and North America.

210. *Hierochloe alpina* Roem. et Schl. Syst. II. 515; Kunth, Enum. Pl. I. 36; Ledeb. Fl. Ross. IV. 408; Fr. Schm. Fl. Saghal. 201 et Fl. Amg.-

Bur. 72; Kurtz, in Engl. Bot. Jahrb. XIX. 419, 479; Miyabe & Miyake, Fl. Saghal. 559; Simpson, in Jour. Linn. Soc. Bot. XLI. 451; Takeda, Notes R. B. G. Vol. VIII. num. XXXIX. 230; Kudo, Rep. Veg. N. Saghal. 51; Kom. Fl. Penins. Kamtsch. I. 132; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 219.

Savastana alpina Scribn. in Mem. Terr. Bot. Club, V. 34; Britt. & Br. Ill. Fl. I. 132.

NOM. JAP. *Miyama-kobo*.

HAB. *Yezo*. Ishikari, Hidaka, Tokachi.

Southern Saghalien. Motodomari.

Northern Saghalien. Alexandrowsk.

DISTRIB. Saghalien, Yezo, Honshu, Mongolia, Okhotsk, Tschuktsch, Kamtschatka, Siberia, Europe and North America.

var. **intermedia** Hack. in Bull. Herb. Boiss. VII. 646.

NOM. JAP. *Yezo-miyamakobo*.

HAB. *Yezo*. Oshima, Shiribeshi, Tokachi.

DISTRIB. Yezo and Honshu.

var. **monstruosa** Koidz. in Tokyo Bot. Mag. XXXII. 63.

NOM. JAP. *Komochi-miyamakobo*.

HAB. *Yezo*. Ishikari.

DISTRIB. Endemic plant.

211. Hierochloe pauciflora R. Br. in Parry's 1st. Voy. App. XI. Bot. (1824) 293; Ledeb. Fl. Ross. IV. 407; Steud. Syn. Glum. I. 14; Honda, in Tokyo Bot. Mag. XLI. 380; Hult. Fl. Kamtschat. I. 86 et in Hann. u. Winkl. Pfl.-areale I. 2: 34, K; Kom. Fl. Penins. Kamtsch. I. 133; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 222.

Hierochloë racemosa Trin. in Mém. Acad. Pétersb. sér. 5, VI. 2: 79; Steud. l. c. 13.

Savastana pauciflora Scribn. in Mem. Torr. Bot. Club, V. 353; Britt. & Br. Ill. Fl. I. 132.

Hierochloe pluriflora Koidz. in Tokyo Bot. Mag. XXXI. 139, et XXXIII. (204).

NOM. JAP. *Yezo-kobo*.

HAB. *Yezo*. Ishikari.

DISTRIB. *Yezo*, Kamtchatka, Siberia and North America.

Stipa L.

212. *Stipa sibirica* Lam. Ill. I. 158; Kunth, Enum. Pl. I. 185; Ledeb. Fl. Ross. IV. 448; Maxim. Prim. Fl. Amur. 325; Steud. Syn. I. 129; Fr. Schm. Fl. Sachal. 203; Hance, in Jour. Linn. Soc. Bot. XIII. 91; Franch. Pl. David. I. 330; Korsh. Pl. Amur. 422; Hook. f. Fl. Brit. Ind. VII. 231; Hemsl. Fl. Tibet, in Jour. Linn. Soc. Bot. III. 338; Hack. in Bull. Herb. Boiss. sér. 2, III. 523; Matsum. Ind. Pl. Jap. II. 1: 85; Nakai, Fl. Korea. II. 354; Miyabe & Miyabe, Fl. Saghal. 560; Nakai, in Tokyo Bot. Mag. XXXIV. 38; Printz, Veg. Sib. Mong. Front. 120; Kudo, Rep. Veg. N. Saghal. 51.

Avena sibirica L. Sp. Pl. ed. 1, 79.

var. **effusa** Maxim. Prim. Fl. Amur. 326; Kom. Fl. Mansh. I. 267; Nakai, in Tokyo Bot. Mag. XXXIV. 38.

Stipa effusa Nakai, apud Honda, in Tokyo Bot. Mag. XL. 319; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 212.

NOM. JAP. *Hane-gaya*.

HAB. *Yezo*. Oshima, Ishikari.

Southern Saghalien. Ushoro, Shikka.

Northern Saghalien. Alexandrowsk.

DISTRIB. *sp.* Saghalien, *Yezo*, Honshu, Korea, Manchuria, China, Amur, Siberia, Western Himalaya and Tibet.

213. *Stipa japonica* Hack. apud Nakai, Veg. Isl. Quelp. 18, et in Tokyo Bot. Mag. XXXIV. 38; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 213.

Stipa sibirica var. *japonica* Hack. in Bull. Herb. Boiss. VII. 647 et sér. 2. III. 502; Matsum. Ind. Pl. Jap. II. 1: 85; Nakai, Fl. Korea. II. 354.

NOM. JAP. *Hiroha-no-hanegaya*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Ishikari.

DISTRIB. *Yezo*, Honshu and Korea.

***Muehlenbergia* SCHREB.**

214. *Muehlenbergia japonica* Steud. Syn. I. 149; Miq. Prol. Fl. Jap. 165; Fr. et Sav. Enum. Pl. Jap. II. 165; Hack. in Bull. Herb. Boiss. VII. 647 et sér. 2, III. 502; Kom. Fl. Mansh. I. 270; Forb. et Hemsl. Ind. Fl. Sin. III. 385; Matsum. Ind. Pl. Jap. II. 1: 66; Nakai, Fl. Korea. II. 354; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 216.

NOM. JAP. *Nezumigaya*, *Ushigaya*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Ishikari, Teshio, Rishiri, Kushiro.

DISTRIB. *Yezo*, Honshu, Kyushu, Korea, Manchuria and China.

215. *Muehlenbergia hakonensis* Makino, in Journ. Jap. Bot. I. 13; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 214.

Muehlenbergia japonica var. *hakonensis* Hack. in Bull. Herb. Boiss. VII. 647; Matsum. Ind. Pl. Jap. II. 1: 67; Makino & Ntmoto, Fl. Jap. 1466.

NOM. JAP. *Tachi-nezumigaya*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Kushiro.

DISTRIB. *Yezo*, Honshu and Kyushu.

216. *Muehlenbergia Huegelii* Trin. in Mém. Acad. Pétersb. VI. 12: 49; Hack. in Bull. Herb. Boiss. VII. 647 et sér. 2, III. 502; Matsum. in Tokyo Bot. Mag. XI. (444) et Ind. Pl. Jap. II. 1: 66; Forb. et Hemsl. Ind. Fl. Sin. III. 385; Nakai, Fl. Korea. II. 354; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 215.

Muehlenbergia viridissima Nees, apud Steud. Syn. I. 178; Hook f. Fl. Brit. Ind. VII. 256; Diels, Fl. C. China, 224; Kom. Fl. Mansh. I. 369.

NOM. JAP. *O-nezumigaya*.

HAB. *Yezo*. Oshima, Ishikari.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Korea, China, Amur, Mongolia and Temperate Himalaya.

***Milium* L.**

217. *Milium effusum* L. Sp. Pl. ed. 1, 61; Kunth, Enum. Pl. I. 66; Ledeb. Fl. Ross. IV. 444; A. Gray, Bot. Jap. 435; Maxim. Prim. Fl. Amur.

325; Miq. Prol. Fl. Jap. 162; Fr. et Sav. Enum. Pl. Jap. II. 160; Korsh. Pl. Amur. 421; Hook. f. Fl. Brit. Ind. VII. 235; Hack. in Bull. Herb. Boiss. VII. 647; Kom. Fl. Mansh. I. 268; Forb. et Hemsl. Ind. Fl. Sin. III. 383; Matsum. Ind. Pl. Jap. II. 1: 64; Miyabe & Miyake, Fl. Saghal. 561; Hult. Fl. Kamtch. I. 87; Kom. Fl. Penins. Kamtsch. I. 133; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 218.

NOM. JAP. *Ibukinukabo*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Kushiro.

Kuriles. Kunashiri, Etorofu, Urup.

Southern Saghalien. Odomari, Mauka, Toyohara.

DISTRIB. Saghalien, Kuriles, *Yezo*, Honshu, Kyushu, Manchuria, China, Amur, Kamtchatka, Siberia, Cochin-China, Himalaya, Europe and North America.

Alopecurus L.

218. *Alopecurus aequalis* Sobolewski, Fl. Petrop. 16; Hult. Fl. Kamtch. I. 89; Kom. Fl. Penins. Kamtsch. I. 135.

Alopecurus fulvus Sm. Engl. Fl. I. 83 et Engl. Bot. XXI. t. 1467; Kunth, Enum. Pl. I. 24; Ledeb. Fl. Ross. IV. 464; Korsh. Pl. Amur. 422; Hack. in Bull. Herb. Boiss. VII. 648, et sér. 2, III. 502; Kom. Fl. Mansh. I. 271; Yabe et Yendo, in Tokyo Bot. Mag. XVIII. (175); Makino, Icon. Gram. Jap. no. 1. *pl.* 1; Palib. Consp. Fl. Korea. III. 31; Matsum. in Tokyo Bot. Mag. XI. (444) et Ind. Pl. Jap. II.1: 35; Nakai, Fl. Korea. II. 355; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 137; Hegi, Ill. Fl. Mitteleurop. I. 219; Miyabe & Miyake, Fl. Saghal. 562; Kudo, Contr. Fl. N. Saghal. 20 et Rep. Veg. N. Saghal. 52.

Alopecurus geniculatus Thunb. Fl. Jap. 49; A. Gray, Pl. Jap. 328; Maxim. Prim. Fl. Amur. 326; Miq. Prol. Fl. Jap. 165; Fr. et Sav. Enum. Pl. Jap. II. 158, non L.

NOM. JAP. *Suzume-no-teppo*, *Yarikusa*.

HAB. *Yezo*. Oshima, Shiribeshi, Okushiri, Iburi, Hidaka, Ishikari, Kushiro.

Kuriles. Etorofu, Shumushu.

Southern Saghalien. Odomari, Tomarioro, Toyohara, Shikka.

Northern Saghalien. Alexandrowsk, Tymi.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Shikoku, Kyushu, Liukiu, Korea, Manchuria, Amur, Kamtchka, Siberia, Caucasus and Europe.

219. *Alopecurus alpinus* Sm. Fl. Brit. III. 1386 et Engl. Bot. *t.* 1126; Trin. Icon. IV. *t.* 38; Hook. et Arn. Beech. Voy. 131 et Brit. Fl. 530; Kunth, Enum. Pl. I. 25; F. Kurtz, in Engl. Bot. Jahrb. XIX. 479; Britt. & Br. Ill. Fl. I. 149; Aschers. u. Graebn. Syn. Mitteleurop. Fl. I. 126.

var. ***Stejnegeri* Hult.** Fl. Kamtch. I. 90; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 204.

Alopecurus Stejnegeri Varey, in Proc. U. S. Nat. Mus. X. 153; Kom. Fl. Penins. Kamtsch. I. 136.

Alopecurus alpinus Sm. var. *borealis* Kudo, Fl. Paramus. 67, non Ledeb.

NOM. JAP. *Chishima-yarikusa*.

HAB. *Kuriles.* Paramushir.

DISTRIB. var. Kuriles, Kamtchatka, Commander Is., Tschutsch Peninsula and St. Lawrence Is.

220. *Alopecurus pratensis* L. Sp. Pl. ed. 1, 60; Kunth, Enum. Pl. I. 24; Ledeb. Fl. Ross. IV. 462; Aschers. u. Graebn. Syn. Mitteleur. Fl. II. 131; Hack. in Bull. Herb. Boiss. VII. 648; Matsum. Ind. Pl. Jap. II. 1: 36; Makino & Nemoto, Fl. Jap. 1417; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 206.

NOM. JAP. *O-suzumeno-teppo*.

HAB. *Yezo.* Ishikari, Tokachi.

Southern Saghalien. Odomari, Toyohara.

DISTRIB. Europe, Siberia and introduced into Japan (Saghalien, Yezo and Honshu) and North America.

Phleum L.

221 *Phleum alpinum* L. Sp. Pl. ed. 1, 59; Kunth, Enum. Pl. I. 29; Ledeb. Fl. Ross. IV. 458; Steud. Syn. I. 150; Hook. f. Fl. Brit. Ind. VII. 236; Hack. in Bull. Herb. Boiss. VII. 647; Kom. Fl. Mansh. I. 271; Forb. et Hemsl. Ind. Fl. Sin. III. 384; Matsum. Ind. Pl. Jap. II. 1: 75; Britt. &

Br. III. Fl. I. 148; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 144; Printz, Veg. Sib. Mong. Front. 120; Kudo, Fl. Paramushir, 68; Hult. Fl. Kamtsch. I. 88; Kom. Fl. Penins. Kamtsch. I. 134; Tatewaki, Pl. Isl. Alaid, 155; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 207.

NOM. JAP. *Miyama-awagaeri*.

HAB. *Yezo*. Ishikari.

Kuriles. Paramushir, Shumushu, Alaid.

DISTRIB. Kuriles, Yezo, Honshu, Manchuria, China, Siberia, Kamtschatka, Hamalaya, Caucasus, Europe and N. America.

222. *Phleum pratense* L. Sp. Pl. ed. 1, 59; Kunth, Enum. Pl. I. 29; Ledeb. Fl. Ross. IV. 457; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 141; Britt. & Br. III. Fl. I. 147; Hack. in Bull. Herb. Boiss. VII. 647; Matsum. Ind. Pl. Jap. II. 1: 75; Koidz. Pl. Sachal. 16; Takeda, Fl. Shikotan, 495; Miyabe & Miyake, Fl. Saghal. 561; Printz, Veg. Sib. Mong. Front. 120; Kudo, Contr. Fl. N. Saghal. 21 et Rep. Veg. N. Saghal. 52; Hult. Fl. Kamtsch. I. 89; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 208.

NOM. JAP. *O-awagaeri*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Rishiri, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Etorofu.

Southern Saghalien. Odomari, Tomarioro, Toyohara, Shikka.

Northern Saghalien. Alexandrowsk, Tim, Tymi.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Siberia, Europe and North America.

***Polypogon* DESF.**

223. *Polypogon Higeaweri* Steud. Syn. I. 422; Hack. in Bull. Herb. Boiss. VII. 648 et sér. 2, IV. 528; Matsum. Ind. Pl. Jap. II. 1: 80; Matsum. et Hayata, Enum. Pl. Formos. 535; Nakai, Fl. Korea. II. 356; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 198.

Polypogon littorale A. Gray, Bot. Jap. 328; Miq. Prol. Fl. Jap. 166; Fr. et Sav. Enum. Pl. Jap. II. 167; Hook. f. Fl. Brit. Ind. VII. 246; Palib.

Consp. Fl. Korea. III. 31; Forb. et Hemsl. Ind. Fl. Sin. III. 286, non Sm.

Polypogon miser Makino, in Mak. & Nemoto, Fl. Jap. 1491.

NOM. JAP. *Hiegaeri*.

HAB. *Yezo*. Oshima, Okushiri.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Formosa, Korea, China and Himalaya.

Cinna L.

224. *Cinna latifolia* Griseb. in Ledeb. Fl. Ross. IV. 435; Maxim. Prim. Fl. Amur. 324; Rgl. Tent. Fl. Ussuri. 170; Fr. Schm. Fl. Sachal. 203, et Fl. Amg.-Burj. 12; Hitchcock, in U. S. Dept. Agric. Bull. no. 772, 134; Honda, in Tokyo Bot. Mag. XXXIX. 45, et XL. 321; Hult. Fl. Kamtch. I. 93; Kom. Fl. Penins. Kamtsch. I. 139; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 196.

Agrostis latifolia Trev. in Göppert Besch. Bot. Gard. Breslau, 82.

Muehlenbergia pendula Bong. Veg. Sitcht, 321.

Cinna pendula Trin. in Mém. Acad. Pétersb. sér. 6. VI. 2: 280; Steud. Syn. I. 182; Aschers. u. Graebn. Syn. II. 1: 159; Hack. in Bull. Herb. Boiss. VII. 648; Kom. Fl. Mansh. I. 274; Matsum. Ind. Pl. Jap. II. 1: 49; Nakai, Fl. Korea. II. 356; Miyabe & Miyake, Fl. Saghal. 562; Kudo, Rep. Veg. N. Saghal. 52.

NOM. JAP. *Fusagaya*.

HAB. *Southern Saghalien*. Toyohara, Motodomari, Shikka.

Northern Saghalien. Alexandrowsk.

DISTRIB. Saghalien, Honshu, Korea, Manchuria, Amur, Ussuri, Kamtchatka, Siberia, Europe and North America.

Agrostis L.

225. *Agrostis palustris* Hudson, Fl. Angl. 27; Hitchcock, in U. S. Dept. Agr. Bull. no. 772, 128, *pl. XIII. f. 67*; Honda, in Tokyo Bot. Mag. XL. 322, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 186.

Agrostis alba Willd. Sp. Pl. I. 371; Ledeb. Fl. Alt. I. 85 et Fl. Ross. IV. 436; Hook. f. Fl. Brit. Ind. VII. 254; Watson, Bot. Calif. II. 271;

Britt. & Br. Ill. Fl. I. 159; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 172; Hack. in Bull. Herb. Boiss. VII. 649 (incl. form. *coarctata* Hack.); Diels, Fl. C. China, 224; Forb. et Hemsl. Ind. Fl. Sin. III. 389; Matsum. in Tokyo Bot. Mag. X. (445) et Ind. Pl. Jap. II. 1: 34; Miyabe & Miyake, Fl. Saghal. 563; Simpson, in Jour. Linn. Soc. Bot. XLI. 452; Printz, Veg. Sib. Mong. Front. 122.

NOM. JAP. *Konukagusa*.

HAB. *Yezo*. Oshima, Iburi, Ishikari, Rishiri, Kushiro, Nemuro.

Kuriles. Kunashiri.

Southern Saghalien. Odomari, Mauka, Ushoro, Toyohara, Motodomari.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Kyushu, China, Mongolia, Himalaya, Central Asia, Europe, North America and Australia.

var. **minor** Honda, var. nov.

Planta humilis, gracillima, 22 cm alta. Panicula coarctata, spiciformis, 3–4 cm longa, 4–5 mm lata. Spiculae minores, 1.5 mm longae.

NOM. JAP. *Chabo-konukagusa*.

HAB. *Northern Saghalien*. Alexandrowsk (Y. Okada, Aug. 19, 1923).

DISTRIB. Endemic.

226. *Agrostis flaccida* Hack. in Bull. Herb. Boiss. VII. 649; Matsum. Ind. Pl. Jap. II. 1: 34; Takeda, Fl. Shikotan, 495; Makino & Nemoto, Fl. Jap. 1414; Honda, in Nakai, Rep. Veg. Daisetsusan Mts. 57, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 189.

NOM. JAP. *Miyama-nukabo*, *Hime-komesusuki*.

HAB. *Yezo*. Oshima, Shiribeshi, Ishikari, Rebun, Rishiri, Nemuro.

Kuriles. Kunashiri, Shikotan.

Southern Saghalien. Odomari, Motodomari.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu and Kyushu.

227. *Agrostis canina* L. Sp. Pl. ed. 1, 62; Kunth, Enum. Pl. I. 222; Ledeb. Fl. Ross. IV. 440; Fr. Schm. Fl. Sachal. 203; Miyabe, Fl. Kuril. 269; Hack. in Bull. Boiss. VII. 649, et sér. 2, III. 502; Matsum. Ind. Pl. Jap. II. 1: 34; Miyabe & Miyake, Fl. Saghal. 564; Makino & Nemoto, Fl. Jap. 1414; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 188.

NOM. JAP. *Takane-nukabo*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Rishiri, Rebun, Tokachi, Kushiro.

Kuriles. Kunashiri, Shikotan, Etorofu, Urup.

Southern Saghalien. Todomoshiri, Tomarioro, Motodomari.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Siberia, Europe and N. America.

228. *Agrostis Trinii* Turcz. Fl. Baic.-Dahur. n. 1299 in nota, et in Bull. Soc. Nat. Mosc. XXIX. 1: 18; Hult. Fl. Kamtch. I. 98; Kom. Fl. Penins. Kamtsch. I. 143; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 194.

Agrostis canina Yabe et Yendo, in Tokyo Bot. Mag. XVIII. (176), non L.

Agrostis flaccida Kudo, Fl. Paramushir, 68, non Hack.

NOM. JAP. *Chishima-nukabo*.

HAB. *Kuriles*. Etorofu, Paramushir, Shumushu.

DISTRIB. Kuriles, Kamtchatka, Amur, Siberia and Europe.

229. *Agrostis Kudo* Honda, sp. nov.

Culmi caespitosi, erecti, 30 cm alti, graciles, glaberrimi. Vaginae internodiis breviores, glabrae, nodis glabris. Ligula hyalino-membranacea, brevis, 1 mm longa, glabra. Folia breviter, angusta, canaliculata, 3–5 cm longa, glabra. Panicula longe-pedunculata, angusta, subcoarctata, erecta, 5–8 cm longa, 0.5–1 cm lata, ramis 3–5, erecto-patulis, cum ramulis laevibus. Spiculæ, lanceolatae, acutæ, 3 mm longæ, glabræ. Glumæ steriles parum inaequales, 1-nerves. Gluma fertilis inferiori quam sterilis brevior, obtusa, 5-nervia, infra medium dorsum aristata, arista glumam aequante.

NOM. JAP. *Kudo-nukabo*.

HAB. *Northern Saghalien*. In boggy places along the coast by Bomitz, Pronge-Baikal. (Aug. 28, 1923. Y. Kudo and B. Ishida).

DISTRIB. Endemic.

230. *Agrostis grandis* Trin. in Mém. Acad. Pétersb. sér. 6, VI. 2: 316, et Agrost. II. 70; Howell, Fl. N. W. Amer. 726; Honda, in Nakai,

Veget. Mt. Apoi, 15; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 190.

NOM. JAP. *O-nukabo*.

HAB. *Yezo*. Hidaka.

DISTRIB. *Yezo* and Northwest America.

231. *Agrostis densiflora* Vasey, in Contrib. U. S. Nat. Herb. III. 702; Howell, Fl. N. W. Amer. 726; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 189.

Calamagrostis stricta Kudo, Fl. Paramushir, 69, p.p., non Trin.

NOM. JAP. *Hozaki-nukabo*.

HAB. *Kuriles*. Paramushir.

DISTRIB. *Kuriles* and Western N. America.

232. *Agrostis hyemalis* B. S. P., Prel. Cat. N. Y. 68; Britt. & Br. Ill. Fl. I. 161; Hitchc. in Robins. & Fern. Gray's Man. Bot. ed. 7, 132; Hult. Fl. Kamtch. I. 98; Kom. Fl. Penins. Kamtch. I. 141; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 190.

Cornucopiae hyemalis Walt. Fl. Carol. 73.

Agrostis scabra Willd. Sp. Pl. I. 370; Hack. in Bull. Herb. Boiss. VII. 548, et sér. 2. III. 502; Matsum. in Tokyo Bot. Mag. XI. (445) et Ind. Pl. Jap. II. 1: 35; Yabe et Yendo, in Tokyo Bot. Mag. XVIII. (176); Koidz. Pl. Sachal. 17; Takeda, Fl. Shikotan 495; Miyabe & Miyake, Fl. Saghal. 565; Kudo, Contr. Fl. N. Saghal. 21, et Rep. Veg. N. Saghal. 53.

NOM. JAP. *Yezo-nukabo*.

HAB. *Yezo*. Oshima, Okushiri, Shiribeshi, Iburi, Hidaka, Ishikari, Teshio, Rebun, Rishiri, Kitami, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Etorofu, Urup, Shumushu.

Southern Saghalien. Odomari, Tomarioro, Ushoro, Toyohara, Moto-domari, Shikka.

Northern Saghalien. Alexandrowsk, Tim, Tymi, Pronge-Baikal, Oha.

DISTRIB. *Saghalien*, *Kuriles*, *Yezo*, *Honshu*, *Korea*, *Manchuria*, *Amur*, *Ussuri*, *Siberia*, *Kamtchatka*, *Europe* and *North America*.

233. *Agrostis macrothyrsa* Hack. in Fedde, Repert. VII. 318; Miyabe & Miyake, Fl. Saghal. 564; Makino & Nemoto, Fl. Jap. 1414.

NOM. JAP. *Karafuto-nukabo*.

HAB. *Yezo*. Kushiro.

Southern Saghalien. Toyohara.

DISTRIB. Saghalien and Yezo.

234. *Agrostis clavata* Trin. in Spreng. Neue Entdeck. II. 55, et Syst. I. 260; Kunth, Enum. Pl. I. 227; Hult. Fl. Kamtch. I. 95; Kom. Fl. Penins. Kamtsch. I. 140.

Trichodium clavatum Schult. Mant. III. 556.

Agrostis laxiflora Ledeb. Fl. Ross. IV. 411; Maxim. Prim. Fl. Amur. 325; Regel, Tent. Fl. Ussuri. 170; Fr. Schm. Fl. Sachal. 203; Korsh. Pl. Amur. 421; Kom. Fl. Mansh. I. 275, non Rich.

Agrostis perennans Fr. et Sav. Enum. Pl. Jap. II. 166; Miyabe, Fl. Kuril. 269; Hack. in Bull. Herb. Boiss. VII. 648; Palib. Consp. Fl. Korea. III. 32; Matsum. Ind. Pl. Jap. II. 1: 34; Koidz. Pl. Sachal. 16; Miyabe & Miyake, Fl. Saghal. 565; Kudo, Fl. Paramush. 68, et Rep. Veg. N. Saghal. 53, non Tuckerm.

Agrostis tenuiflora Honda, in Nakai, Veg. Mt. Apoi, 73, non Steud.

NOM. JAP. *Yama-nukabo*.

HAB. *Yezo*. Oshima, Shiribeshi, Okushiri, Iburi, Hidaka, Ishikari, Kitami, Tokachi, Kushiro, Nemuro.

Kuriles. Kunashiri, Etorofu, Urup, Paramushir.

Southern Saghalien. Todomoshiri, Odomari, Honto, Mauka, Tomari-oro, Ushoro, Toyohara, Motodomari, Shikka.

Northern Saghalien. Alexandrowsk, Tim.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Shikoku, Liukiu, Korea, China, Kamtchatka, Ochotsk, Siberia and Europe.

Calamagrostis ADANS.

235. *Calamagrostis Epigejos* Roth, Tent. Fl. Germ. I. 34; Kunth, Enum. Pl. I. 237; Ledeb. Fl. Alt. I. 87 et Fl. Ross. IV. 432; Steud. Syn. I. 187; Maxim. Prim. Fl. Amur. 324; Rgl. Tent. Fl. Ussuri. 170; Fr. Schm. Fl. Sachal. 203; Franch. Pl. David. 332; Fr. et Sav. Enum. Pl. Jap. II. 168; Matsum. in Tokyo Bot. Mag. XII. (28) et Ind. Pl. Jap. II. 1: 46;

Korsh. Pl. Amur. 420; Hook. f. Fl. Brit. Ind. VII. 260; Kom. Fl. Mansh. I. 276; Diels, Fl. C. China, 224; Palib. Consp. Fl. Korea. III. 32; Forb. et Hemsl. Ind. Fl. Sin. III. 391; Koidz. Pl. Sachal. 17; Nakai, Fl. Korea. II. 357; Simpson, in Jour. Linn. Soc. Bot. XLI. 451; Printz, Veg. Sib. Mong. Front. 124; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 160.

Arundo epigejos L. Sp. Pl. ed. 1, 81.

Calamagrostis Epigejos Roth, *a. genuina* Hack. in Bull. Herb. Boiss. sér. 2, III. 502.

NOM. JAP. *Yama-awa*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Ishikari, Tokachi, Kushiro.

var. densiflora Ledeb. Fl. Alt. I. 87 et Fl. Ross. IV. 433; Rgl. l. c.; Franch. l. c.; Hack. in Bull. Herb. Boiss. VII. 649 et sér. 2, III. 502; Palib. l. c.; Kom. l. c.; Forb. et Hemsl. l. c.; Nakai, l. c.; Matsum. l. c.; Miyabe & Miyake, Fl. Saghal. 567; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 161.

NOM. JAP. *Hoso-yamaawa*.

HAB. *Yezo*. Oshima, Shiribeshi, Okushiri, Iburi, Hidaka, Ishikari, Teshio, Rishiri, Kitami, Kushiro, Nemuro.

Southern Saghalien. Toyohara.

DISTRIB. *sp.* Saghalien, Yezo, Honshu, Kyushu, Formosa, Korea, China, Manchuria, Mongolia, Siberia, Europe and South Africa.

236. Calamagrostis littorea Beauv. Agrost. 15; DC. Fl. Fr. VI. 255; Kunth, Enum. Pl. I. 237; Fr. et Sav. Enum. Pl. Jap. II. 168; Matsum. in Tokyo Bot. Mag. XII. (28) et Ind. Pl. Jap. II. 1: 46; Makino & Nemoto, Fl. Jap. 1436; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 162.

Calamagrostis pseudophragmites Baumg. Enum. III. 211; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 216.

Arundo littorea Schrad. Fl. Germ. I. 212.

Arundo glauca M. Bieb. Fl. Taur.-Cauc. I. 79.

Calamagrostis Onoei Fr. et Sav. Enum. Pl. Jap. II. 598; Franch. Pl. David. 332; Hack. in Bull. Herb. Boiss. VII. 650; Forb. et Hemsl. Ind. Fl. Sin. III. 392.

NOM. JAP. *Hossugaya, Chigusa, Toshimagaya*.

HAB. *Yezo*. Shiribeshi, Iburi, Hidaka, Ishikari, Teshio.

DISTRIB. *Yezo*, Honshu, China, Siberia and Europe.

237. *Calamagrostis Yendoana* Honda, in Tokyo Bot. Mag. XLI. 635, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 174.

Calamagrostis villosa var. *Langsdorffii* Matsum. Ind. Pl. Jap. II. 1: 48, p.p., non Hack.

NOM. JAP. *Chishima-iwanogariyasu*.

HAB. *Kuriles*. Shumushu.

DISTRIB. Endemic.

238. *Calamagrostis Langsdorffii* Trin. Gram. unifl. et sesquifl. 225; Ledeb. Fl. Ross. IV. 430; Trautv. et Mey. Fl. Ochot. 105; Maxim. Prim. Fl. Amer. 324; Korsh. Pl. Amur. 420; Britt. & Br. Ill. Fl. I. 164; Piper, Fl. Wash. 116; Matsum. in Tokyo Bot. Mag. XII. (28); Printz, Veg. Sib. Mong. Front. 123; Hult. Fl. Kamtch. I. 100; Kom. Fl. Penins. Kamtsch. I. 145; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 168.

Calamagrostis villosa Hack. in Bull. Herb. Boiss. VII. 650 et sér. 2, III. 502; Kom. Fl. Mansh. I. 277; Forb. et Hemsl. Ind. Fl. Sin. III. 392; Matsum. Ind. Pl. Jap. II. 1: 48; Koidz. Pl. Sachal. 17; Nakai, Fl. Korea. II. 358; Takeda, Fl. Shikotan 495; Miyabe and Miyake, Fl. Saghal. 568; Kudo, Fl. Paramushir, 68, Contr. Fl. N. Saghal. 21 et Rep. Veg. N. Saghal. 53, non Mutel.

Calamagrostis villosa Mutel var. *Langsdorffii* Hack. in Sommer, Fl. Ob. infer. 107 et in Bull. Herb. Boiss. VII. 650; Takeda, Fl. Shikotan, 495.

Calamagrostis purpurea Trin. Gram. unifl. et sesquifl. 219; Fr. Schm. Fl. Sachal. 202.

Calamagrostis Halleriana Fr. et Sav. Enum. Pl. Jap. II. 168, 601, non DC.

NOM. JAP. *Iwa-nogariyasu*, *Nemuro-gariyasu*, *Yezo-nogariyasu*.

HAB. *Yezo*. Shiribeshi, Iburi, Hidaka, Ishikari, Kitami, Rebun, Rishiri, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Etorofu, Urup, Paramishir, Shumushu.

Southern Saghalien. Todomoshiri, Odomari, Tomarioro, Ushoro, Toyohara, Motodomari, Shikka.

Northern Saghalien. Alexandrowsk, Tim, Tymi, Nyiwo, Chaiwo, Oha, Schmidt-Penn.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Korea, China, Manchuria, Amur, Kamtchatka, Siberia, Europe and North America.

239. *Calamagrostis neglecta* Gaertn. Fl. Wett. I. 94; P. Beauv. Agrost. 157; Aschers. et Graebn. Syn. Mitteleur. Fl. II. 1: 207; Britt. & Br. Ill. Fl. I. 210; Miyabe & Miyake, Fl. Saghal. 569; Hult. Fl. Kamtch. I. 103; Kom. Fl. Penins. Kamtch. I. 148; Makino & Nemoto, Fl. Jap. 1437; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 171.

Arundo neglecta Ehrh. Beitr. VI. 137.

Deyeuxia neglecta Kunth, Enum. Pl. I. 242.

Calamagrostis stricta Hack. in Bull. Herb. Boiss. VII. 652; Matsum. Ind. Pl. Jap. II. 1: 47; Kudo, Fl. Paramushir, 69 et Rep. Veg. N. Saghal. 54, non Trin.

NOM. JAP. *Chishima-gariyasu*.

HAB. *Kuriles.* Kunashiri, Urup, Paramushir, Shumushu.

Southern Saghalien. Toyohara, Shikka.

Northern Saghalien. Alexandrowsk, Chaiwo.

DISTRIB. Saghalien, Kuriles, Kamtchatka, Amur, Mongolia, Siberia, Europe and North America.

var. ***aculeolata*** (Hack.)

Calamagrostis stricta var. *aculeolata* Hack. in Bull. Herb. Boiss. VII. 652.

NOM. JAP. *Hiroho-chishimagariyasu*.

HAB. *Yezo.* Kitami, Kushiro, Nemuro.

Kuriles. Shumushu.

Southern Saghalien. Toyohara.

DISTRIB. Endemic.

240. *Calamagrostis lapponica* Hartm. Skand. Fl. I. 46; Grieseb. in Ledeb. Fl. Ross. IV. 429; Scribn. et Merr. in Contr. U. S. Nat. Herb. XIII. Pt. 3, 61.

Arundo lapponica Wahl. Fl. Lapp. 27.

forma **monstruosa** Miyabe et Kudo.

NOM. JAP. *Sugawara-nogariyasu*.

HAB. *Southern Saghalien*. Shikka.

Northern Saghalien. Alexandrowsk.

DISTRIB. Saghalien, Alaska, northern Asia and Europe.

In both of the specimens from Saghalien a greater part of the spikelets in an inflorescence show an abnormal development. The sterile glumes attain the length of 8–10 mm and the fertile glumes, which assume linear long-acuminate closely rolled up bodies, attain the length of 12–15 mm.

241. *Calamagrostis sachalinensis* Fr. Schm. Fl. Sachal. 202, *t. VIII*. f. 8–14; Hack. in Engl. Bot. Jahrb. VII. 50, in Bull. Herb. Boiss. VII. 650 et sér. 2, III. 502; Matsum. in Tokyo Bot. Mag. XII. (29) et Ind. Pl. Jap. II. 1: 47; Koidz. Pl. Sachal. 18; Nakai, Fl. Korea. II. 358; Takeda, in Kew. Bull. (1912) 217; Miyabe & Miyake, Fl. Saghal. 567; Kudo, Contr. Fl. N. Saghal. 21 et Rep. Veg. N. Saghal. 54; Hult. Fl. Kamtch. I. 106; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 172.

Calamagrostis inaequiglumis Hack. in Bull. Herb. Boiss. VII. 651; Matsum. Ind. Pl. Jap. II. 1: 46.

Deyeuxia sachalinensis Rendle, in Forb. et Hemsl. Ind. Fl. Sin. III. 395.

NOM. JAP. *Takane-gariyasu*.

HAB. *Yezo*. Oshima, Shiribeshi, Okushiri, Iburi, Hidaka, Ishikari, Teshio, Kitami, Rishiri, Tokachi, Kushiro.

Kuriles. Shikotan, Etorofu, Urup.

Southern Saghalien. Odomari, Mauka, Tomarioro, Ushoro, Toyohara, Motodomari.

Northern Saghalien. Alexandrowsk, Tim.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Korea and Kamtchatka.

242. *Calamagrostis hakonensis* Fr. et Sav. Enum. Pl. Jap. II. 168, 599; Takeda, in Kew Bull. (1912) 217; Kudo, Contr. Fl. N. Saghal. 21, et Rep. Veg. N. Saghal. 54; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 167.

Calamagrostis sachalinensis Hack. in Engl. Bot. Jahrb. VI. 50 et in

Bull. Herb. Boiss. VII. 650, p.p.; Matsum. Ind. Pl. Jap. II. 1: 47, p.p.

Calamagrostis Matsumurae Matsum. Ind. Pl. Jap. II. 1: 46, non Maxim.
quoad pl. Tomakomai lect.

Calamagrostis Matsumurae Maxim. var. *aristata* Honda, in Tokyo Bot.
Mag. XLI. 635.

NOM. JAP. *Hime-nogariyasu*.

HAB. *Yezo*. Oshima, Shiribeshi, Okushiri, Iburi, Hidaka, Ishikari,
Teshio, Rebun, Tokachi, Kushiro, Nemuro.

Kuriles. Kunashiri.

DISTRIB. Kuriles, Yezo, Honshu, Shikoku and Kyushu.

243. *Calamagrostis phragmitoides* Hartm. Skand. Fl. ed. 4, 25;
Ledeb. Fl. Ross. IV. 431.

Calamagrostis hakonensis Kudo, Contr. Fl. N. Saghal. 21, et Rep. Veg.
N. Sagh. 54, non Fr. et Sav.

NOM. JAP. *Karafuto-nogariyasu*.

HAB. *Yezo*. Ishikari, Kushiro.

Southern Saghalien. Shikka, Motodomari.

Northern Saghalien. Tymi.

DISTRIB. Saghalien, Yezo and Northern Europe.

244. *Calamagrostis exaristata* Honda, in Tokyo Bot. Mag. XLI. 13,
et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 166.

NOM. JAP. *Hime-mutsunogariyasu*.

HAB. *Yezo*. Ishikari.

DISTRIB. Yezo and Honshu.

245. *Calamagrostis Miyabei* Honda, sp. nov.

Culmi graciles, 40 cm alti, glabri. Vaginæ internodiis longiores, v.
breviores, glabræ. Ligula truncata, 1 mm longa, glabra. Folia anguste
linearia, plana, 10–20 cm longa, 1–2 mm lata, glabra. Panícula oblongo-
lanceolata, 6–10 cm longa, 1–2 cm lata, laxiuscula, ramis semiverticillatis,
erecto-patulis v. flexuosis, cum ramulis laevibus. Spiculæ lanceolatae, 5 mm
longæ, glabræ, violascentes. Glumæ steriles subaequales, 5 mm longæ,

acuminatæ, lanceolatæ, glabræ, violascentes, 1-nerves. Gluma fertilis lanceolata, 4 mm longa, violascentes, 3-nervis, infra medium dorsum exserens aristam rectam glumas sterilem aequantem, callo pilis $\frac{1}{2}$ glumæ aequantibus, laxiuscule obsito. Palea 4 mm longa, 2-nervis. Antheræ 3 mm longæ.

NOM. JAP. *Ito-nogariyasu* (Honda).

HAB. *Southern Saghalien*. Shikka District, Jimutaki (K. Miyabe & T. Miyagi, July 24, 1906.)

DISTRIB. Endemic.

246. *Calamagrostis robusta* Fr. et Sav. Enum. Pl. Jap. II. 169, 600; Hack. in Bull. Herb. Boiss. VII. 653; Matsum. in Tokyo Bot. Mag. XII. (29) et Ind. Pl. Jap. II. 1: 47.

Deyeuxia robusta Makino, in Tokyo Bot. Mag. IV, 230.

NOM. JAP. *O-nogariyasu*.

HAB. *Yezo*. Shiribeshi.

DISTRIB. *Yezo* and Honshu.

247. *Calamagrostis arundinacea* Roth, Tent. Fl. Germ. II. 1: 89; Rgl. Tent. Fl. Ussuri. 169; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 210; Matsum. in Tokyo Bot. Mag. XII. (29); Hegi, Ill. Fl. Mittel-Europ. I. 235; Nakai, Fl. Korea. II. 357; Miyabe & Miyake, Fl. Saghal. 567; Kudo, Rep. Veg. N. Saghal. 55.

Calamagrostis arundinacea Roth var. *genuina* Hack. in Bull. Herb. Boiss. VII. 652; Matsum. Ind. Pl. Jap. II. 1: 45; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 177.

Calamagrostis sylvatica DC. Fl. Franc. V. 523; Ledeb. Fl. Ross. IV. 426; Trautv. et Mey. Fl. Ochot. 106; Rgl. et Til. Fl. Ajan. 127; Maxim. Prim. Fl. Amur. 323; Fr. Schm. Fl. Sachal. 202.

Deyeuxia sylvatica Kunth, Enum. Pl. I. 243; Hook. f. Fl. Brit. Ind. VII. 266; Forb. et Hemsl. Ind. Fl. Sin. III. 365.

NOM. JAP. *Nogariyasu*.

HAB. *Yezo*. Oshima, Shiribeshi, Teshio.

Northern Saghalien. Alexandrowsk.

DISTRIB. Saghalien, *Yezo*, Honshu, Shikoku, Kyushu, Korea, China, Himalaya, Siberia and Europe.

var. **brachytricha** Hack. in Bull. Herb. Boiss. VII. 652.

Calamagrostis brachytricha Steud. Syn. I. 189; Miq. Prol. Fl. Jap. 166; Fr. et Sav. Enum. Pl. Jap. II. 169; Hance, in Jour. Linn. Soc. Bot. XIII. 91; Kom. Fl. Mansh. I. 281.

Deyeuxia sylvatica Kunth, var. *brachytricha* Rendle, in Forb. et Hemsl. Ind. Fl. Sin. III. 396.

NOM. JAP.

HAB. *Yezo*. Ishikari, Teshio.

DISTRIB. *Yezo*, Honshu, Manchuria and China.

var. **densa** Honda, var. nov.

Panícula dense coarctata, subspiciformis, 7–11 cm longa, 1 cm lata.

NOM. JAP. *Hodachi-nogariyasu*.

HAB. *Northern Saghalien*. Oha District, between Lugri and Oha, (Y. Kudo & B. Ishida, Aug. 31, 1923).

DISTRIB. Endemic.

248. *Calamagrostis yezoensis* Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 175.

NOM. JAP. *Yezo-nogariyasu*, *Hariusu-nogariyasu*.

HAB. *Yezo*. Prov. Shiribeshi, Hariusu (H. YANAGISAWA, July 2, 1912); Mt. Shakotan (H. YANAGISAWA, July 20, 1915).

DISTRIB. Endemic.

249. *Calamagrostis purpurascens* R. Br. in Richards Bot. App. Frankl. Jour. (1823) 731; Hult. Fl. Kamtch. I. 105; Kom. Fl. Penins. Kamtsch. I. 150.

Calamagrostis urelytra Hack. in Bull. Herb. Boiss. VII. 653; Matsum. in Tokyo Bot. Mag. XII. (28) et Ind. Pl. Jap. II. 1: 48; Kudo, Fl. Paramushir, 69; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 184.

Calamagrostis urelytra Hack. var. *macrantha* Takeda, in Tokyo Bot. Mag. XXIV. 36.

NOM. JAP. *Miyama-nogariyasu*.

HAB. *Yezo*. Rishiri.

Kuriles. Etorofu, Urup, Ketoy, Paramushir, Shumushu.

DISTRIB. Kuriles, Yezo, Honshu, Siberia, Kamtchatka and North America.

var. β . **parvigluma** (Takeda).

Calamagrostis urelytra Hack. β . *parvigluma* Takeda, in Tokyo Bot. Mag. XXIV. 37, et in Notes R. B. G. Edinbg. Vol. VIII. Num. XXXIX. 230; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 184.

NOM. JAP. *Hime-miyamagariyasu*, *Takane-nogariyasu*.

HAB. *Yezo*. Ishikari.

DISTRIB. *Yezo* and Honshu.

var. γ . **pumila** (Takeda).

Calamagrostis urelytra Hack. γ . *pumila* Takeda, l. c. 37; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 185.

Calamagrostis humilis Hack. MSS.

NOM. JAP. *Ko-miyamanogariyasu*.

HAB. *Yezo*. Ishikari.

DISTRIB. Endemic plant.

***Holcus* L.**

250. *Holcus lanatus* L. Sp. Pl. ed. 1, 1048; Ledeb. Fl. Ross. IV. 410; Kunth, Enum. Pl. I. 34; Britt. & Br. Ill. Fl. I. 34; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 226; Hack. in Bull. Herb. Boiss. VII. 703; Matsum. Ind. Pl. Jap. II. 1: 59; Hegi, Ill. Fl. Mitteleurop. I. 238.

NOM. JAP. *Shirage-gaya*.

HAB. *Yezo*. Oshima, Nemuro.

DISTRIB. Temperate Asia, Europe and introduced into North America.

***Erioblastus* HONDA**

251. *Erioblastus flexuosus* Honda ex Nakai, Rep. Veget. Daisetsusan Mts. 38. 73; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 143.

Deschampsia atropurpurea Scheele var. *paramushirensis* Kudo, Fl. Paramushir, 71.

Vahlodea atropurpurea Fr. ssp. *paramushirensis* Hult. Fl. Kamtch. I. 111.

Deschampsia atropurpurea Kom. Fl. Penins. Kamtsch. I. 154, non Scheele.

NOM. JAP. *Yukiwari-gaya*.

HAB. *Yezo*. Ishikari.

Kuriles. Paramushir.

DISTRIB. *Yezo*, *Kuriles* and *Kamtchatka*.

Deschampsia BEAUV.

252. *Deschampsia caespitosa* Beauv. Agrost. 91, *t.* 18, *f.* 3; Kunth, Enum. Pl. I. 286; Ledeb. Fl. Ross. IV. 421; Maxim. Prim. Fl. Amur. 323; Fr. Schm. Fl. Sachal. 202; Hook. f. Fl. Britt. Ind. VII. 702; Hemsl. Fl. Tibet, in Jour. Linn. Soc. Bot. XXXV. 203; Matsum. Ind. Pl. Jap. II. 1: 50; Hayata, Fl. Mont. Formos. 238; Koidz. Pl. Sachal. 19; Hegi, Ill. Fl. Mittel-Europ. I. 243; Miyabe & Miyake, Fl. Saghal. 570; Kudo, Fl. Paramushir, 70; Kom. Fl. Kamtch. I. 152; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 138.

Aira caespitosa L. Sp. Pl. ed. 1: 64; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 289; Kom. Fl. Mansh. I. 283; Printz, Veg. Sib. Mong. Front. 124.

NOM. JAP. *Miyama-komesusuki*.

HAB. *Yezo*. Oshima, Hidaka, Ishikari, Kushiro.

Kuriles. Kunashiri, Etorofu.

Southern Saghalien. Odomari, Shikka.

Northern Saghalien. Tim, Oha, Schmidt-Penn.

DISTRIB. *Saghalien*, *Kuriles*, *Yezo*, *Honshu*, *Formosa*, *China*, *Manchuria*, *Amur*, *Siberia*, *Kamtchatka*, *Himalaya*, *Tibet*, *Caucasus*, *Europe* and *North America*.

subsp. ***orientalis*** Hult. Fl. Kamtch. I. 109.

Deschampsia caespitosa Beauv. var. *setifolia* Kudo, Fl. Paramushir, 70, non Ledeb.; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 139.

HAB. *Yezo*. Ishikari.

Kuriles. Paramushir.

Southern Saghalien. Shikka.

DISTRIB. Saghalien, Kuriles, Yezo and Kamtchatka.

253. *Deschampsia Wibeliana* Parl. Fl. Pal. I. 101; Hegi, Ill. Fl. Mitteleurop. I. 245; Koidz. in Tokyo Bot. Mag. XXXI. 261; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 140.

Aira Wibeliana Sonder, in Koch, Syn. Fl. Germ. et Helv. ed. 2, 915; Aschers. u. Graebn. Syn. Mittel-Europ. Fl. II. 1: 294.

Deschampsia caespitosa P. Beauv. var. *Wiberiana* Ledeb. Fl. Ross. IV. 421.

NOM. JAP. *Chishima-komesusuki*.

HAB. *Kuriles.* Urup.

DISTRIB. Kuriles, Unalaska and Europe.

254. *Deschampsia paramushirensis* Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 140.

Deschampsia brevifolia var. *exserens* Kudo, Fl. Paramushir, 70, non Ledeb.

Deschampsia beringensis Hult. Fl. Kamtch. I. 107, pro parte.

NOM. JAP. *Paramushir-komesusuki*. (Honda).

HAB. *Kuriles.* Paramushir, Kamogawa (Y. Kudo, Jul. 14, 1920); Magarigawa (Y. Kudo, Jul. 13, 1920).

DISTRIB. Endemic.

255. *Deschampsia flexuosa* Trin. in Bull. Acad. St. Pétersb. I. 66; Ledeb. Fl. Ross. IV. 420; Fr. Schm. Fl. Sachal. 202; Britt. & Br. Ill. Fl. I. 170; Miyabe, Fl. Kuril. 269; Hack. in Bull. Herb. Boiss. VII. 702; Matsum. Ind. Pl. Jap. II. 1: 50; Hayata, Fl. Mont. Formos. 238; Hegi, Ill. Fl. Mittel-Europ. I. 245; Takeda, Fl. Shikotan, 495; Miyabe & Miyake, Fl. Saghal. 569; Kudo, Fl. Paramushir, 70, et Rep. Veg. N. Saghal. 55; Hult. Fl. Kamtch. I. 110; Kom. Fl. Kamtch. I. 153; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 134.

Aira flexuosa L. Sp. Pl. ed. 1, 65; Trautv. et Mey. Fl. Ochot. 105; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 287.

Aira flexuosa L. var. *montana* Fr. et Sav. Enum. Pl. Jap. II. 172.

Deschampsia flexuosa Trin. f. *montana* Hack. l. c.; Matsum. l. c. 51.

NOM. JAP. *Komesusuki*.

HAB. *Yezo*. Oshima, Iburi, Ishikari, Rishiri, Tokachi, Kushiro.

Kuriles. Kunashiri, Shikotan, Etorofu, Urup, Ketoy, Paramushir.

Southern Saghalien. Ushoro.

Northern Saghalien. Tymy, Oha, Schmidt-Penn.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Formosa, Kamtchatka, Siberia, Caucasus, Europe and N. America.

256. *Deschampsia Takedana* Honda, in Tokyo Bot. Mag. XVI. 385, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 141.

Trisetum leve Takeda, in Notes R. B. G. Edingb. Vol. VIII. Num. XXXIX. 273; Koidz. in Tokyo Bot. Mag. XXXIII. (204).

NOM. JAP. *Yubari-kanitsuri*.

HAB. *Yezo*. Ishikari.

DISTRIB. Endemic species.

***Trisetum* PERS.**

257. *Trisetum spicatum* Richter, Pl. Europ. I. 59; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 270; Hegi, Ill. Fl. Mittel-Europ. I. 247; Lamson-Scribn. & Merr. Grasses of Alaska, 64; Miyabe & Miyake, Fl. Saghal. 571; Kudo, Fl. Paramushir, 71; Hult. Fl. Kamtch. I. 115; Kom. Fl. Kamtch. I. 155.

Aira spicata L. Sp. Pl. ed. 1, 64.

Aira subspicata L. Syst. Nat. ed. 10, 873.

Trisetum subspicatum P. Beauv. Agrost. 88; Kunth, Enum. Pl. I. 293; Steud. Syn. I. 225; Fr. Schm. Fl. Sachal. 202; Britt. & Br. Ill. Fl. I. 171; Hack. in Bull. Herb. Boiss. VII. 703; Kawakami, in Tokyo Bot. Mag. XIV. (112); Forb. et Hemsl. Ind. Fl. Sin. III. 400; Matsum. Ind. Pl. Jap. II. 1: 86; Hayata, Fl. Mont. Formos. 238; Takeda, in Tokyo Bot. Mag. XXIV. 261 et Notes R. B. G. Edingb. Vol. VIII. Num. XXXIX. 230; Printz, Veg. Sib. Mong. Front. 126; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 129.

Avena subspicata Clairb. Man. Herb. 17; Ledeb. Fl. Ross. IV. 418; Hook. f. Fl. Brit. Ind. VII. 278.

NOM. JAP. *Rishiri-kanitsuri*.

HAB. *Yezo*. Ishikari, Rishiri, Tokachi.

Kuriles. Etorofu, Paramushir.

Southern Saghalien. Ushoro, Toyohara, Motodomari.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Formosa, Himalaya, China, Siberia, Kamtchatka, Caucasus, Europe and North America.

258. *Trisetum sibiricum* Rupr. Beitr. Pflanzenk. d. Russ. Reich. II. 65; Hult. Fl. Kamtch. I. 113; Kom. Fl. Penins. Kamtsch. I. 156.

Trisetum flavescens Maxim. Prim. Fl. Amur. 323; Fr. Schm. Fl. Sachal. 202; Kom. Fl. Mansh. I. 283; Koidz. Pl. Sachal. 18; Nakai, Fl. Korea. II. 360; Miyabe & Miyake, Fl. Saghal. 570; Kudo, Rep. Veg. N. Saghal. 55, non P. Beauv.

Trisetum flavescens var. *genuinum* Hack. in Bull. Herb. Boiss VII. 702; Matsum. Ind. Pl. Jap. II. 1: 86; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 125.

Trisetum flavescens var. *purpurascens* Arcang. Comp. Fl. Ital. ed. 1. 779; Yabe et Yendo, in Tokyo Bot. Mag. XVIII. (176); Takeda, Fl. Shikotan, 496; Kudo, Fl. Paramushir, 72; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 127.

NOM. JAP. *Chishima-kanitsuri*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Ishikari, Rishiri, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Paramushir, Shumushu.

Southern Saghalien. Todomoshiri, Odomari, Mauka, Ushoro, Toyohara, Motodomari, Shikka.

Northern Saghalien. Alexandrowsk, Tymi.

var. ***papillosum*** Honda, in Nakai, Veg. Mt. Apoi, 75.

Trisetum flavescens var. *papillosum* Hack. in Bull. Herb. Boiss. VII. 702; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 126.

NOM. JAP. *Kanitsurigusa*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Ishikari.

DISTRIB. *sp.* Saghalien, Kuriles, Yezo, Honshu, Shikoku, Kyushu, Korea, Manchuria, Amur, Ochotsk, Kamtchatka, Siberia, China, Tibet, Himalaya, Europe and Sitcha in North America.

259. *Trisetum homochlamys* Honda, in Tokyo Bot. Mag. XLIII. 293, 317, et in Nakai, Veg. Mt. Apoi, 15, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 127.

NOM. JAP. *Samani-kanitsuri*.

HAB. *Yezo*. Hidaka.

DISTRIB. Endemic.

Cynodon PERS.

260. *Cynodon Dactylon* Pers. Syn. Pl. I. 85; Steud. Syn. I. 212; Kunth, Enum. Pl. I. 259; Ledeb. Fl. Ross. IV. 452; Miq. Prol. Fl. Jap. 167; Hook. f. Fl. Brit. Ind. VII. 288; Fr. et Sav. Enum. Pl. Jap. II. 172; Hack. in Bull. Herb. Boiss. VII. 703; Diels, Fl. C. China, 225; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 84; Forb. et Hemsl. Ind. Fl. Sin. III. 402; Matsum. et Hayata, Enum. Pl. Formos. 536; Hegi, Ill. Fl. Mitteleurop. I. 264; Tatewaki, Pl. Akan Reg. (46); Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 154.

Panicum Dactylon L. Sp. Pl. ed. 1, 58.

Capriola Dactylon O. Ktze. Rev. Gen. Pl. II. 764; Britt. & Br. Ill. Fl. I. 175.

NOM. JAP. *Gyogi-shiba*.

HAB. *Yezo*. Oshima, Kushiro.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Bonin, Liukiu, Formosa, China, Siberia, India, Burma, Ceylon, Luzon, Taiti, Australia, Caucasus, Europe and America.

Beckmannia Host

261. *Beckmannia Syzigachne* Fernald, in Rhodora, XXX. 27.

Panicum Syzigachne Steud. in Flora, XXIX. 19.

Beckmannia erucaeformis var. Steud. Syn. Pl. Gram. 15.

Beckmannia erucaeformis var. *uniflorus* Scribn. in Vasey, Descr. Cat.

Grasses U. S. 8; Beal, Grasses N. A. II. 428.

Beckmannia erucaeformis var. *baicalensis* Kuznetzow, in Bull. angew. Bot. VI. 584.

Beckmannia baicalensis Hult. Fl. Kamtch. I. 119.

Beckmannia erucaeformis Maxim. Prim. Fl. Amur. 326; Rgl. Tent. Fl. Ussuri. 170; Fr. Schm. Fl. Sachal. 203; Fr. et Sav. Enum. Pl. Jap. II. 157; Korsh. Pl. Amur. 422; Hack. in Bull. Herb. Boiss. VII. 704; Kom. Fl. Mansh. I. 289; Palib. Consp. Fl. Korea. II. 34; Forb. et Hemsl. Ind. Fl. Sin. III. 405; Matsum. Ind. Pl. Jap. II. 1: 42; Miyabe & Miyake, Fl. Saghal. 572; Printz, Veg. Sib. Mong. Front. 129; Kom. Fl. Penins. Kamtsch. I. 160; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 152, non Host.

NOM. JAP. *Minogome*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Teshio, Kitami, Kushiro, Nemuro.

Kuriles. Kunashiri, Etorofu.

Southern Saghalien. Odomari, Mauka, Ushoro, Toyohara, Shikka.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Shikoku, Kyushu, Korea, China, Manchuria, Amur, E. Siberia, Kamtchatka and North America.

Phragmites TRIN.

262. *Phragmites communis* Trin. Fund. Agrost. 134; Ledeb. Fl. Alt. I. 88; Miq. Prol. Fl. Jap. 166; Fr. et Sav. Enum. Pl. Jap. II. 170; Hook. f. Fl. Brit. Ind. VII. 303; Makino, in Tokyo Bot. Mag. VIII. 381; Miyabe, Fl. Kuril. 270; Hemel. Fl. Tibet, in Jour. Linn. Soc. Bot. XXXV. 203; Hack. in Bull. Herb. Boiss. VII. 704, et sér. 2, III. 504; Kom. Fl. Mansh. I. 280; Forb. et Hemsl. Ind. Fl. Sin. III. 409; Matsum. Ind. Pl. Jap. II. 1: 75; Matsum. et Hayata, Enum. Pl. Formos. 541; Koidz. Pl. Sachal. 20; Nakai, Fl. Korea. II. 363; Takeda, Fl. Shikotan, 496; Simpson, in Jour. Linn. Soc. Bot. XLI. 542; Miyabe & Miyake, Fl. Saghal. 573; Printz, Veg. Sib. Mong. Front. 130; Kudo, Rep. Veg. N. Saghal. 56; Hult. Fl. Kamtch. I. 121; Kom. Fl. Penins. Kamtsch. I. 161.

Arundo Phragmites L. Sp. Pl. ed. 1, 81; Thunb. Fl. Jap. 55; Ledeb. Fl. Ross. IV. 393; Maxim. Prim. Fl. Amur. 321; Rgl. Tent. Fl. Ussuri. 168; Fr. Schm. Fl. Sachal. 201; Korsh. Pl. Amur. 418; Aschers. u. Graebn. Syn.

Mitteleurop. Fl. II. 1: 328.

Phragmites Phragmites Karst. Deutsch. Fl. II. 379; Britt. & Br. Ill. Fl. I. 184.

NOM. JAP. *Kita-yoshi, Yoshi.*

HAB. *Yezo.* Iburi, Ishikari, Kitami, Rishiri, Tokachi, Kushiro.

Kuriles. Urup.

Southern Saghalien. Todomoshiri, Tomarioro, Ushoro, Toyohara, Motodomari, Shikka.

Northern Saghalien. Alexandrowsk, Pronge-Baikal.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Shikoku, Kyushu, Formosa, Korea, Manchuria, China, Amur, Ussuri, Dahuria, Kamtchatka, Siberia, Caucasus, Kashmir, Tibet, Europe and N. America.

263. *Phragmites prostratus* Makino, in Tokyo Bot. Mag. XXVI. (237) et ibidem, XXVIII. 23.

NOM. JAP. *Tsuru-yoshi, Jishibari.*

HAB. *Yezo.* Iburi, Hidaka, Ishikari, Kitami.

DISTRIB. Yezo and Honshu.

***Moliniopsis* HAYATA**

264. *Moliniopsis spiculosa* Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 439.

Scolochloa spiculosa Fr. Schm. Fl. Sachal. 201; Hack. in Engl. u. Pr. Nat. Pfl.-fam. II. 2: 74; Miyabe & Miyake, Fl. Saghal. 579.

Molinia japonica Hack. in Bull. Herb. Boiss. VII. 702 et sér. 2, IV. 523; Forb. et Hemsl. Ind. Fl. Sin. III. 412; Matsum. Ind. Pl. Jap. II. 1: 66; Nakai, Fl. Korea. II. 365.

Molinia spiculosa Kudo, Rep. Veg. N. Saghal. 57.

Moliniopsis japonica Hayata, in Tokyo Bot. Mag. XXXIX. 258.

Fluminea spiculosa Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 66.

NOM. JAP. *Uma-gaya, Susukiyoshi, Yachigaya.*

HAB. *Yezo.* Iburi, Ishikari, Teshio, Rishiri, Kitami.

Kuriles. Kunashiri.

Southern Saghalien. Ushoro.

Northern Saghalien. Alexandrowsk.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Shikoku, Kyushu and Korea.

***Eragrostis* BEAUV.**

265. *Eragrostis Niwahokori* Honda, in Tokyo Bot. Mag. XLI. 387, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 101.

Eragrostis pilosa Fr. Schm. Fl. Sachal. 200; Matsum. Ind. Pl. Jap. II. 1: 54, p.p.; Miyabe et Miyake, Fl. Saghal. 574, non Beauv.

NOM. JAP. *Niwa-hokori*.

HAB. *Yezo*. Oshima, Shiribeshi, Okushiri, Hidaka, Ishikari, Kitami, Rishiri, Tokachi, Kushiro.

Southern Saghalien. Odomari.

DISTRIB. Saghalien, Yezo, Honshu, Kyushu, Liukiu, Formosa and Korea.

***Melica* L.**

266. *Melica nutans* L. Sp. Pl. ed. 1, 66; Ledeb. Fl. Ross. IV. 399; Steud. Syn. I. 291; Maxim. Prim. Fl. Amur. 322; Rgl. Tent. Fl. Ussuri. 169; Miq. Prol. Fl. Jap. 169; Fr. Schm. Fl. Sachal. 201; Fr. et Sav. Enum. Pl. Jap. II. 178; Miyabe, Fl. Kuril. 270; Hook. f. Fl. Brit. Ind. VII. 330; Korsh. Pl. Amur. 418; Kom. Fl. Mansh. I. 297; Forb. et Hemsl. Ind. Fl. Sin. III. 418; Nakai, Fl. Korea. II. 368; Matsum. Ind. Pl. Jap. II. 1: 64; Takeda, Fl. Shikotan, 496; Simpson, in Jour. Linn. Soc. Bot. XLI. 452; Miyabe et Miyake, Fl. Saghal. 574; Printz, Veg. Sib. Mong. Front. 131; Kudo, Contr. Fl. N. Saghal. 21, et Rep. Veg. N. Saghal. 57; Hult. Fl. Kamtch. I. 122; Kom. Fl. Penins. Kamtsch. I. 162; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 96.

NOM. JAP. *Komegaya*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Teshio, Kitami, Tokachi.

Kuriles. Shikotan.

Southern Saghalien. Todomoshiri, Odomari, Mauka, Tomarioro, Ushoro, Toyohara, Motodomari.

Northern Saghalien. Alexandrowsk, Tymi.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Shikoku, Korea, Manchuria, North China, Mongolia, Kashmir, Kamtchatka, Siberia, Caucasus and Europe.

267. *Melica grandiflora* Koidz. in Tokyo Bot. Mag. XXXIX. 17; Honda, in Nakai, Veg. Mt. Apoi, 74, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 96.

NOM. JAP. *Ao-komegaya*.

HAB. *Yezo*. Hidaka.

DISTRIB. *Yezo* and Honshu.

***Schizachne* HACKEL**

268. *Schizachne purpurascens* Swallen, in Journ. Wash. Acad. Sc. XVIII. 204; Honda, in Nakai, Veg. Mt. Daisetsu, 58, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 56.

Avena striata Michx. Fl. Bor. Am. I. 73; Britt. & Br. Ill. Fl. I. 172; Kom. Fl. Penins. Kamtsch. I. 157.

Trisetum purpurascens Torrey, Fl. U. S. 127.

Melica striata Hitchc. in Rhodora VIII. 211; Robins. & Fern. Gray's New Man. Bot. 152; Miyabe & Kudo, Mater. Fl. Hokk. n. 125, in Trans. Sapporo Nat. Hist. Soc. VIII. 1; Makino & Nemoto Fl. Jap. 1463.

Schizachne Fauriei Hack. in Fedde, Repert. VII. 322; Miyabe & Miyake, Fl. Saghal. 582.

NOM. JAP. *Faurie-gaya*, *Miyama-chahiki*.

HAB. *Yezo*. Ishikari, Kushiro.

Southern Saghalien. Odomari, Toyohara.

DISTRIB. Saghalien, *Yezo*, Kamtchatka and North America.

***Diarrhena* RAFIN.**

269. *Diarrhena japonica* Fr. et Sav. Enum. Pl. Jap. II. 603; Maxim. in Mém. Biol. XII. 933; Hack. in Bull. Herb. Boiss. VII. 707, sér. 2, III.

505; Forb. et Hemsl. Ind. Fl. Sin. III. 418; Matsum. Ind. Pl. Jap. II. 1: 51; Nakai, Fl. Korea. II. 368; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 94.

Onoea japonica Fr. et Sav. l. c. 178.

NOM. JAP. Tatsu-no-hige.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Kushiro.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Tsushimá and Korea.

***Brylkinia* FR. SCHMIDT**

270. *Brylkinia caudata* Fr. Schm. Fl. Sachal. 199, *t. VIII. f. 22-27*; Fr. et Sav. Enum. P. Jap. II. 180; Hack. in Bull. Herb. Boiss. VII. 708, et sér. 2, IV. 523; Makino, Icon. Gram. et Cyp. I. *pl. 25*; Matsum. Ind. Pl. Jap. II. 1: 45; Takeda, Fl. Shikotan, 496; Miyabe & Miyake, Fl. Saghal. 575; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 89.

Eheharta caudata Munro, in A. Gray, Bot. Jap. 420.

NOM. JAP. *Hajigaeri*, *Hogaerigaya*.

HAB. *Yezo*. Oshima, Iburi, Ishikari, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan.

Southern Saghalien. Toyohara, Motodomari.

DISTRIB. Saghalien, Kuriles, *Yezo*, Honshu and Shikoku.

***Dactylis* L.**

271. *Dactylis glomerata* L. Sp. Pl. ed. 1, 71; Ledeb. Fl. Ross. IV. 368; Fr. et Sav. Enum. Pl. Jap. II. 179; Hack. in Bull. Herb. Boiss. VII. 708; Matsum. Ind. Pl. Jap. II. 1: 50; Nakai, Fl. Korea. II. 369; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 88.

NOM. JAP. *Kamogaya*.

HAB. *Yezo*. Iburi, Ishikari, Rishiri, Kushiro.

DISTRIB. *Yezo*, Honshu, Korea, Mongolia, Siberia, Caucasus, Himalaya, Europe and North America.

***Poa* L.**

272. *Poa annua* L. Sp. Pl. ed. 1, 68; Kunth, Enum. Pl. I. 349; Steud. Syn. I. 250; Ledeb. Fl. Ross. IV. 377; A. Gray, Pl. Jap. 328; Miq. Prol.

Fl. Jap. 167; Fr. Schm. Fl. Sachal. 200; Fr. et Sav. Enum. Pl. Jap. II. 174; Britt. & Br. Ill. Fl. I. 201; Korsh. Pl. Amur. 417; Hook. f. Fl. Brit. Ind. VII. 345; Miyabe, Fl. Kuril. 270; Hack. in Bull. Herb. Boiss. VII. 708; Diels, Fl. C. China, 226; Yabe et Yendo, Pl. Shumush. (175); Forb. et Hemsl. Ind. Fl. Sin. III. 422; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 388; Matsum. et Hayata, Enum. Pl. Formos. 547; Koidz. Pl. Sachal. 21; Hegi, Ill. Fl. Mittel-Europ. I. 301; Takeda, Fl. Shikotan, 496; Miyabe & Miyake, Fl. Saghal. 576; Kudo, Fl. Paramushir, 72; Printz, Veg. Sib. Mong. Front. 132; Hult. Fl. Kamtch. I. 124; Kom. Fl. Penins. Kamtsch. I. 165; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 71.

NOM. JAP. *Suzumeno-katabira*, *Niramigasa*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Teshio, Kitami, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Etorofu, Paramushir, Shumushu.

Southern Saghalien. Odomari, Honto, Ushoro, Toyohara, Shikka, Kaihyoto.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Shikoku, Kyushu, Formosa, Manchuria, China, Dahuria, Siberia, Kamtchatka, Himalaya, Tibet, Ceylon, Caucasus, Europe and N. America.

273. *Poa arctica* R. Br. in Parry's 1st. Voy. Suppl. 288; Hook. et Arn. in Beech. Voy. 132; Ledeb. Fl. Ross. IV. 373; Kjellm. Phan. Fl. Vega Exped. 367; F. Kurtz, in Engl. Bot. Jahrb. XIX. 480; Koidz. in Tokyo Bot. Mag. XXV. 480; Kudo, Fl. Paramushir, 74, Contr. Fl. N. Saghal. 21, et Rep. Veg. N. Saghal. 59; Hult. Fl. Kamtch. I. 124; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 72.

NOM. JAP. *Kyokuchi-somosomo*.

HAB. *Kuriles*. Paramushir.

Northern Saghalien. Tymi.

DISTRIB. Kuriles, Saghalien, Kamtchatka, Siberia, Arctic Europe and North America.

274. *Poa paucispicula* Scribn. et Merr. in Contr. U. S. Nat. Herb. XIII. 3: 69, *pl.* 15; Hult. Fl. Kamtch. I. 131.

NOM. JAP.

HAB. *Kuriles*. Kunashiri.

DISTRIB. Kuriles, Kamtchatka, and Alaska.

275. *Poa laxa* Haenke, in Jirasek, Beob. Riesengeb. 118; Trin. in Mém. Ac. Imp. Sc. Pétersb. Sér. 6. I. 377; Griseb. in Ledeb. Fl. Ross. IV. 372; Kunth, Enum. Pl. I. 349; Britt. & Br. Ill. Fl. 1. 203; Scribn. & Merr. in Contr. U. S. Nat. Herb. XIII. 3: 69.

NOM. JAP.

HAB. *Kuriles*. Etorofu.

DISTRIB. Kuriles, Alaska and Northern part of North America and Europe.

276. *Poa bracteosa* Kom. in Notulæ Syst. Herb. H. P. (1924) 10: 146; Roshev. in Bull. Jard. Bot. U. R. S. S. XXVI. 285; Hult. Fl. Kamtch. I. 125; Kom. Fl. Penins. Kamtsch. I. 167.

NOM. JAP.

HAB. *Kuriles*. Urup, Paramushir.

DISTRIB. Kuriles and Kamtchatka.

277. *Poa Komarovi* Roshev. in Bull. Jard. Bot. U. R. S. S. XXVI. 286; Kom. Fl. Penins. Kamtsch. I. 167; Hult. Fl. Kamtch. I. 127.

NOM. JAP.

HAB. *Kuriles*. Kunashiri.

DISTRIB. Kuriles and Kamtchatka.

278. *Poa stenantha* Trin. in Mém. Acad. Pétersb. VI. Math. Phys. Nat. I. 376; Lamson-Scribn. & Merr. in Contrib. U. S. Nat. Herb. XIII. 3: 71; Kom. Fl. Penins. Kamtsch. I. 169.

Poa flavicans Griseb. in Ledeb. Fl. Ross. IV. 373.

NOM. JAP. *Chishimagaya*, *Chishima-ichigotsunagi*.

HAB. *Yezo*. Kushiro, Nemuro.

Kuriles. Shikotan, Etorofu.

Southern Saghalien. Toyohara.

DISTRIB. Saghalien, Kuriles, Yezo, Kamtchatka, Okhotsk, Aleutian Islands and Alaska.

279. *Poa scabriflora* Hack. in Fedde, Repert. III. 244; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 81.

NOM. JAP. *Miyama-somosomo*.

HAB. *Yezo*. Iburi, Hidaka, Kushiro.

Kuriles. Etorofu.

DISTRIB. Endemic.

280. *Poa macrocalyx* Trautv. et Mey. Fl. Ochot. 103; Maxim. Prim. Fl. Amur. 320; Fr. Schm. Fl. Sachal. 200; Kom. Fl. Mansh. I. 306; Miyabe & Miyake, Fl. Saghal. 577; Kudo, Rep. Veg. N. Saghal. 59; Koidz. in Tokyo Bot. Mag. XXV. 204; Kom. in Not. Syst. Herb. Hort. B. P. 10: 145; Roshev. in Bull. Jard. Bot. U. R. S. S. XXVI. 285; Hult. Fl. Kamtch. I. 128; Kom. Fl. Penins. Kamtsch. I. 170; Tatewaki, Pl. Isl. Alaid, 155; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 75.

Poa stenantha Trin. var. *japonica* Hack. in Bull. Herb. Boiss. VII. 708; Matsum. Ind. Pl. Jap. II. 1: 78.

Poa stenantha Trin. var. *fallax* Hack. l. c.; Matsum. l. c. 79.

Poa stenantha Trin. var. *leptocoma* Takeda, Fl. Shikotan, 496, non Ledeb.

NOM. JAP. *Karafuto-ichigotsunagi*.

HAB. *Yezo*. Iburi, Hidaka, Rishiri, Rebun, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Etorofu, Urup, Paramushir, Alaid.

Southern Saghalien. Honto, Mauka, Ushoro, Toyahara, Motodomari.

Northern Saghalien. Pronge-Baikal, Oha, Schmidt-Penn.

DISTRIB. Saghalien, Kuriles, Yezo, Amur, Ochotsk and Kamtchatka.

281. *Poa sachalinensis* Honda, in Tokyo Bot. Mag. XLI. 641, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 81.

Poa macrocalyx Trautv. et Mey. var. *sachalinensis* Koidz. in Tokyo Bot. Mag. XXXI. 255; Makino & Nemoto, Fl. Jap. 1487.

NOM. JAP. *Hime-karafuto-ichigotsunagi*.

HAB. *Southern Saghalien*. Odomari.

DISTRIB. Endemic species.

282. *Poa lanata* Scribn. et Merr. in Contr. U. S. Nat. Herb. XIII. Part 3, 72, *pl.* 16; Kom. Fl. Penins. Kamtsch. I. 170.

NOM. JAP.

HAB. *Yezo*. Ishikari.

DISTRIB. *Yezo*, Kamtchatka and Aleutian Islands.

283. *Poa occidentalis* Vasey, in Contr. U. S. Nat. Herb. I. 274; Hult. Fl. Kamtch. I. 129.

Poa penicillata Kom. in Not. Syst. Hort. P. 10: 148, et Fl. Penins. Kamtsch. I. 171; Roshev. in Bull. Jard. Bot. U. R. S. S. XXVI. 285.

Poa leptocoma Trin. var. *elatior* Scribn. et Merr. in Contr. U. S. Nat. Herb. XIII. Pt. 3, 71.

NOM. JAP.

HAB. *Southern Saghalien*. Motodomari.

DISTRIB. Saghalien, Kamtchatka and Alaska and Western North America.

284. *Poa hayachinensis* Koidz. in Tokyo Bot. Mag. XXXI. 254; Makino & Nemoto, Fl. Jap. 1486; Honda, in Nakai, Rep. Veget. Daisetsusan Mts. 58, 84, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 74.

NOM. JAP. *Nambu-somosomo*.

HAB. *Yezo*. Ishikari, Tokachi.

DISTRIB. *Yezo* and Honshu.

285. *Poa cenisia* All. Auct. 40; Griseb. in Ledeb. Fl. Ross. IV. 374; Steud. Syn. Gram. 250; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 404; Hegi, Ill. Fl. Mitteleurop. I. 314; Takeda, Fl. Shikotan, 496; Tatewaki, Pl. Isl. Alaid, 155.

NOM. JAP.

HAB. *Yezo*. Rishiri.

Kuriles. Shikotan, Urup, Alaid.

Southern Saghalien. Toyohara.

DISTRIB. Saghalien, Kuriles, *Yezo*, E. Siberia and Europe.

286. *Poa platyantha* Kom. in Notulæ Syst. Herb. H. P. 10: 4, et Fl. Penins. Kamtsch. I. 172; Roshev. in Bull. Jard. Bot. U. R. S. S. XXVI. 285; Hult. Fl. Kamtch. I. 132.

Poa cenisia Kudo, Fl. Paramushir, 74, non Allion.

NOM. JAP.

HAB. *Kuriles*. Paramushir.

DISTRIB. *Kuriles* and *Kamtchatka*.

287. *Poa pratensis* L. Sp. Pl. ed. 1, 67; Ledeb. Fl. Ross. IV. 378; Steud. Syn. I. 251; Trautv. et Mey. Fl. Ochot. 104; Rgl. et Til. Fl. Ajan. 126; Maxim. Prim. Fl. Amur. 319; Miq. Prol. Fl. Jap. 160; Fr. Schm. Fl. Sachal. 200; Fr. et Sav. Enum. Pl. Jap. II. 174; Korsh. Pl. Amur. 417; Britt. & Br. Ill. Fl. I. 204; Miyabe, Fl. Kuril. 270; Hook. f. Fl. Brit. Ind. VII. 339; Hack. in Bull. Herb. Boiss. VII. 708 et sér. 2, III. 506; Hemsl. Fl. Tibet, in Jour. Linn. Soc. Bot. XXXV. 204; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 428; Forb. et Hemsl. Ind. Fl. Sin. III. 426; Kom. Fl. Mansh. I. 299; Koidz. Pl. Sachal. 22; Nakai, Fl. Korea. II. 371; Miyabe & Miyake, Fl. Saghal. 576; Kudo, Fl. Paramushir, 72, Contr. Fl. N. Saghal. 21, et Rep. Veg. N. Saghal. 57; Hult. Fl. Kamtch. I. 133; Kom. Fl. Penins. Kamtch. I. 173; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 79.

NOM. JAP. *Nagahagusa*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Rishiri, Tokachi, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Etorofu, Urup, Paramushir, Shumushu.

Southern Saghalien, Odomari, Tomarioro, Toyohara.

Northern Saghalien. Alexandrowsk, Tim.

var. ***anceps*** Gaud. Fl. Helv. I. 260; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 429; Hack. in Bull. Herb. Boiss. VII. 708; Matsum. Ind. Pl. Jap. II. 1: 78; Makino & Nemoto, Fl. Jap. 1488.

NOM. JAP. *Hiroha-no-nagahagusa*.

HAB. *Yezo*. Iburi, Ishikari.

var. ***strigosa*** Gaud. Agr. Helv. I. 214; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 432.

Poa strigosa Hoffm. Deutschl. Fl. 2. Aufl. I. 44.

Poa pratensis L. var. *angustifolia* Sm. f. *strigosa* Hack. in Bull. Herb. Boiss. VII. 708; Matsum. Ind. Pl. Jap. II. 1: 78; Makino & Nemoto, l. c.

NOM. JAP. *Hosoba-no-nagahagusa*.

HAB. *Yezo*. Shiribeshi, Iburi, Ishikari, Tokachi, Kushiro, Nemuro.

DISTRIB. *sp.* Saghalien, Kuriles, Yezo, Honshu, Korea, China, Manchuria, Amur, Ochotsk, Ajan, Kamtchatka, Siberia, Tibet, Himalaya, Caucasus, Europe, Africa and America.

288. *Poa trivialis* L. Sp. Pl. ed. 1, 67; Thunb. Fl. Jap. 50; Ledeb. Fl. Alt. I. 96, et Fl. Ross. IV. 376; Maxim. Prim. Fl. Amur. 317; Miq. Prol. Fl. Jap. 167; Fr. et Sav. Enum. Pl. Jap. II. 174; Britt. & Br. Ill. Fl. I, 204; Hack. in Bull. Herb. Boiss. VII. 711; Kom. Fl. Mansh. I. 300; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 425; Matsum. Ind. Pl. Jap. II. 1: 79; Hegi, Ill. Fl. Mittel-Europ. I. 304, *t.* 34, *f.* 6; Nakai, Fl. Korea. II. 371; Printz, Veg. Sib. Mong. Front. 136; Kudo, Rep. Veg. N. Saghal. 57; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 86.

NOM. JAP. *Ko-ichigotsunagi*.

HAB. *Yezo*. Ishikari.

Southern Saghalien. Toyohara.

Northern Saghalien. Alexandrowsk.

DISTRIB. Saghalien, Yezo, Honshu, Korea, Manchuria, Siberia, Caucasus, Europe, North Africa and North America.

289. *Poa radula* Fr. et Sav. Enum. Pl. Jap. II. 174, 602; Hack. in Bull. Herb. Boiss. VII. 711; Matsum. Ind. Pl. Jap. II. 1: 78; Roshev. in Bull. Jard. Bot. U.R.S.S. XXVI. 285; Hult. Fl. Kamtch. I. 134; Kom. Fl. Kamtch. I. 176; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 80.

Poa sudetica Fr. Schm. Fl. Sachal. ed. Ross. 218; Miyabe & Miyake, Fl. Saghal. 642, non Haenke.

Poa Chaixii Kom. Fl. Mansh. I. 305; Nakai, Fl. Korea. II. 370; Kudo, Rep. Veg. N. Saghal. 58, non Vill.

NOM. JAP. *Chishima-ichigotsunagi*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Rebun, Nemuro.

Kuriles. Etorofu.

Southern Saghalien. Toyohara.

Northern Saghalien. Tymi.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Korea, Manchuria, Amur, Mongolia and Kamtchatka.

290. *Poa palustris* L. Syst. Nat. et. 10, 874 et Sp. Pl. ed. 2, 98; Hack. in Bull. Herb. Boiss. VII. 710; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 416; Kom. Fl. Manch. I. 302; Matsum. Ind. Pl. Jap. II. 1: 77; Kom. Fl. Mansh. I. 302; Hegi, Ill. Fl. Mittel-Europ. Fl. I. 317; Printz, Veg. Sib. Mong. Front. 134; Hult. Fl. Kamtch. I. 130; Kom. Fl. Kamtch. I. 176; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 78.

Poa serotina Ehrh. Beitr. VI. 86; Ledeb. Fl. Ross. IV. 375; Miq. Prol. Fl. Jap. 168.

Poa fertilis Host. Gram. Austr. III. 10, *t.* 15; Ledeb. Fl. Alt. I. 98, p. p.; Fr. et Sav. Enum. Pl. Jap. II. 175.

NOM. JAP.

HAB. *Yezo.* Oshima, Shiribeshi, Iburi, Ishikari, Kitami, Rishiri.

Southern Saghalien. Odomari, Ushoro, Shikka.

DISTRIB. Saghalien, Yezo, Honshu, Kyushu, Manchuria, Kamtchatka, Siberia, Asia Minor, Europe and North America.

291. *Poa nemoralis* L. Sp. Pl. ed. 1, 69; Ledeb. Fl. Ross. IV. 375; Maxim. Prim. Fl. Amur. 319; Steud. Syn. I. 251; Fr. Schm. Fl. Sachal. 200; Rgl. Tent. Fl. Ussuri. 168; Fr. et Sav. Enum. Pl. Jap. II. 174; Hook. f. Fl. Brit. Ind. VII. 341; Makino, in Tokyo Bot. Mag. IX. 73; Hack. in Bull. Herb. Boiss. VII. 710; Britt. & Br. Ill. Fl. I. 205; Korsh. Pl. Amur. 417; Kom. Fl. Mansh. I. 302; Hemsl. Fl. Tibet, in Jour. Linn. Soc. XXXV. 204; Forb. et Hemsl. Ind. Fl. Sin. III. 425; Matsum. Ind. Pl. Jap. II. 1: 77; Koidz. Pl. Sachal. 22; Miyabe & Miyake, Fl. Saghal. 577; Printz, Veg. Sib. Mong. Front. 133; Kudo, Contr. Fl. N. Saghal. 21 et Rep. Veg. N. Saghal. 58; Kom. Fl. Kamtch. I. 177; Tatewaki, Pl. Akan Reg. (47); Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 76.

NOM. JAP. *Tachi-ichigotsunagi.*

HAB. *Yezo.* Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Rishiri, Kushiro, Nemuro.

Kuriles. Kunashiri.

Southern Saghalien. Odomari.

Northern Saghalien. Alexandrowsk.

DISTRIB. Saghalien, Kuriles, Yezo, China, Manchuria, Amur, Ussuri, Kamtchatka, Siberia, Tibet, Himalaya, Europe and North America.

292. *Poa acroleuca* Steud. Syn. I. 256; A. Gray, Pl. Jap. 328; Miq. Prol. Fl. Jap. 168; Fr. et Sav. Enum. Pl. Jap. II. 175; Hack. in Bull. Herb. Boiss. VII. 710, et sér. 2, III. 506; Diels, Fl. C. China, 226; Kom. Fl. Mansh. I. 305; Palib. Consp. Fl. Korea. III. 33; Forb. et Hemsl. Ind. Fl. Sin. III. 422; Matsum. Ind. Pl. Jap. II. 1: 76; Nakai, Fl. Korea. II. 370; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 69.

Poa acroleuca Steud. var. *psilocaulis* Munro: Miq. l. c.; Fr. et Sav. l. c.

Poa familiaris Steud.: Miq. l. c.; Fr. et Sav. l. c.

NOM. JAP. *Miso-ichigotsunagi*.

HAB. *Yezo*. Oshima, Iburi.

DISTRIB. *Yezo*, Honshu, Kyushu, Korea, Manchuria and China.

293. *Poa strictula* Steud. Syn. Gram. 426; Koidz. Fl. Symb. Or.-Asiat. 81.

Poa palustris var. *strictula* Hack. in Bull. Herb. Boiss. VII. 710 et sér. 2, III. 529; Matsum. Ind. Pl. Jap. II. 1: 77.

Poa nemoralis var. *strictula* Hack. in Matsum. Shokubutsu-Mei-I, ed. 9, pt. 2, 298.

Poa sphondylodes Miq. Prol. Fl. Jap. 169; Fr. et Sav. Enum. Pl. Jap. II. 175; Takeda, Fl. Shikotan, 496, non Trin.

Poa sphondylodes var. *strictula* Koidz. ex Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 83.

Poa acroleuca Kudo, Fl. Paramush. 73, non Steud.

NOM. JAP. *Yama-ichigotsunagi*, *Kawara-ichigotsunagi*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Rebun, Tokachi, Kushiro.

Kuriles Shikotan, Paramushir.

Southern Saghalien. Odomari, Toyohara, Shikka.

DISTRIB. Saghalien, Kuriles, *Yezo*, Honshu and Kyushu.

294. *Poa eminens* Presl, Reliq. Haenkean. I. (1830) 273; Roshew. in Bull. Jard. Bot. U.R.S.S. XXVI. 285; Hult. Fl. Kamtch. I. 126; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 73.

Poa glumaris Trin. Mem. Ac. Pétersb. sér. 6. I. 376; Bong. Végét. de Sitcha, 173; Steud. Syn. Gram. 253; Maxim. Prim. Fl. Amur. 320; Fr.

Schm. Fl. Saghal. 200; Miyabe, Fl. Kuril. 270; Britt. & Br. Ill. Fl. I. 208, Hack. in Bull. Herb. Boiss. VII. 711; Yabe et Yendo, in Tokyo Bot. Mag. XVIII. (175); Koidz. Pl. Sachal. 23; Takeda, Fl. Shikotan, 496; Miyabe & Miyake, Fl. Saghal. 578; Kudo, Contr. Fl. N. Saghal. 21, et Rep. Veg. N. Saghal. 59.

Glyceria glumaris Griseb. in Ledeb. Fl. Ross. IV. 392; Rgl. et Til. Fl. Ajan. 126.

Poa kurilensis Hack. in Bull. Herb. Boiss. sér. 2, IV. 524; Matsum. Ind. Pl. Jap. II. 1: 77.

Poa glumaris Trin. var. *kurilensis* Kudo, Fl. Paramushir, 73.

Poa Trinii Scribn. et Merr. Grasses of Alaska, 73; Kom. Fl. Kamtch. I. 178.

NOM. JAP. *Oni-ichigotsunagi*, *Chishima-Oichigotsunagi*, *Osomosomo*.

HAB. *Yezo*. Hidaka, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Etorofu, Urup, Paramushir, Shumushu.

Southern Saghalien. Odomari, Rutoka, Honto, Mauka, Tomarioro, Toyohara, Motodomari, Shikka.

Northern Saghalien. Nyiwo, Chaiwo, Pronge-Baikal, Oha.

DISTRIB. Saghalien, Kuriles, Yezo, Eastern Siberia, Kamtchatka, Bering, Alaska, Sitcha and North America.

295. *Poa Fauriei* Hack. in Bull. Herb. Boiss. VII. 711; Matsum. Ind. Pl. Jap. II. 1: 71; Honda, Rep. Alpine Pl. Mt. Shirouma, 15, et in Journ. Facul. Sci. Imp. Univ. Tokyo, III. 74.

NOM. JAP. *Yezo-somosomo*.

HAB. *Yezo*. Shiribeshi.

DISTRIB. Yezo and Honshu.

296. *Poa yezo-montana* Honda, sp. nov.

Culmi graciles, glaberrimi, 50–60 cm alti. Vaginæ internodiis breviores, striatæ, glabræ, nodis levibus. Ligula brevissima, glabra. Folia linearia, plana tenuiter acuminata, 8–15 cm longa, 2.5–3.5 mm lata, utrinque glaberrima. Panicula laxa, 8–12 cm longa, 2–4 cm lata, ramis 2–3, erecto-patulis, flexuosis, levibus, inferiore longe nudis. Spiculæ oblongæ, 5–7 mm longæ, 2–3 mm latæ, sordide pallidæ, glabræ, 3-floræ. Glumæ steriles

inaequales, inferior lanceolata, acuta, 3–4 mm longa, glabra, 1-nervis, superior oblongo-lanceolata, 3–5 mm longa, acute, glabra, 3-nervis. Gluma fertilis oblonga, acuta, 5 mm longa, 5-nervis, basi ad nervos puberula. Palea lanceolata, carinato-binervis, ad carinas ciliatula.

NOM. JAP. *Yezo-yamaichigotsunagi*.

HAB. *Yezo*. Prov. Ishikari, Mt. Kurodake, Daisetsusan Mts. (Aug. 12, 1927. S. Ito, N. Hiratsuka and S. Iwadare).

DISTRIB. Endemic.

Glyceria R. BR.

297. *Glyceria aquatica* Wahlb. Fl. Gothob. 18; Ledeb. Fl. Ross. IV. 392; Maxim. Prim. Fl. Amur. 321; Rgl. Tent. Fl. Ussuri. 168; Fr. Schm. Fl. Sachal. 201; Korsh. Pl. Amur. 418; Hack. in Bull. Herb. Boiss. VII. 711, et sér. 2, III. 506; Kom. Fl. Mansh. I. 307; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 452; Forb. et Hemsl. Ind. Fl. Sin. III. 428; Matsum. Ind. Pl. Jap. II. 1: 57; Koidz. Pl. Sachal. 21; Nakai, Fl. Korea. II. 369; Hegi, Ill. Fl. Mittel-Europ. I. 321; Takeda, Fl. Shikotan, 496; Miyabe & Miyabe, Fl. Saghal. 579; Kom. Fl. Penins. Kamtsch. I. 180; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 62.

NOM. JAP. *Hiroha-no-dojotsunagi*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Ishikari, Kushiro.

Southern Saghalien. Mauka, Tomarioro, Toyohara, Shikka.

DISTRIB. Saghalien, Yezo, Honshu, Korea, China, Manchuria, Amur, Ussuri, Kamtchatka, Siberia, Asia Minor, Europe and North America.

298. *Glyceria lithuanica* Lindmann, in Engl. Bot. Jahrb. XLIV. 45; Hult. Fl. Kamtch. I. 139; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 64.

Glyceria aquatica var. *debilior* Trin. Sp. Gram. 365; Fr. Schm. Fl. Sachal. 201; Miyabe & Miyake, Fl. Saghal. 580.

Glyceria debilior Kudo, Contr. Fl. N. Saghal. 21, et Rep. Veg. N. Saghal. 59.

Glyceria orientalis Kom. in Fedde, Repert. XIII. 162, et Fl. Penins. Kamtsch. I. 180.

NOM. JAP. *Karafuto-dojotsunagi*.

HAB. *Yezo*. Ishikari, Teshio, Kushiro.

Southern Saghalien. Odomari, Ushoro, Toyohara, Motodomari, Shikka.

Northern Saghalien. Alexandrowsk.

DISTRIB. Saghalien, Yezo, Kamtchatka, Amur, Siberia, Turkestan and Europe.

299. *Glyceria alnasteretum* Kom. in Fedde, Repert. XIII. 87, et Fl. Penins. Kamtch. I. 182; Hult. Fl. Kamtch. I. 138.

Glyceria debilior Kudo, Fl. Paramushir, 74.

NOM. JAP. *Chishima-dojotsunagi*.

HAB. *Yezo*. Ishikari, Tokachi.

Kuriles. Etorofu, Paramushir.

DISTRIB. Yezo, Kuriles and Kamtchatka.

300. *Glyceria arundinacea* Kunth, Rev. Gram. I. 118, et Enum. Pl. I. 367; Steud. Syn. Glum. I. 285; Hack. in Bull. Herb. Boiss. VII. 711; Mak. & Nemoto, Fl. Jap. 1453; Honda, in Tokyo Bot. Mag. XLII. 133, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 63.

Glyceria remota Griseb. in Ledeb. Fl. Ross. IV. 391, p.p., non Fries.

Poa sudetica Miyabe, in Tokyo Bot. Mag. VIII. 483.

Glyceria remota var. *japonica* Hack. in Bull. Herb. Boiss. 712; Matsum. Ind. Pl. Jap. II. 1: 58; Kak. & Nemoto, Fl. Jap. 1453.

NOM. JAP. *Miyama-dojotsunagi*, *O-dojotsunagi*.

HAB. *Yezo*. Shiribeshi, Iburi, Ishikari, Rishiri, Nemuro.

DISTRIB. Yezo, Honshu, Korea and Caucasus.

301. *Glyceria pallida* Trin. in Bull. Acad. Sc. Pétersb. I. 68; Hack. in Bull. Herb. Boiss. VII. 712; Matsum. Ind. Pl. Jap. II. 1: 57; Robinson & Fernald, Gray's New Man. Bot. 159; Honda, in Jour. Facult. Sci. Imp. Univ. Tokyo, III. 64.

Windsonia pallida Torr. Cat. N. Y. 91.

Panicularia pallida O. Ktze. Rev. Gen. Pl. III. 783; Britt. & Br. Ill. Fl. I. 213.

NOM. JAP. *Yezo-no-dojotsunagi*.

HAB. *Yezo.* Oshima, Iburi, Ishikari, Kushiro.

Kuriles. Kunashiri.

Southern Saghalien. Toyohara.

DISTRIB. Saghalien, Kuriles, Yezo and North America.

302. *Glyceria fluitans* R. Br. Prodr. 179; Ledeb. Fl. Ross. IV. 390; A. Gray, Pl. Jap. 328; Miq. Prol. Fl. Jap. 169; Fr. et Sav. Enum. Pl. Jap. II. 177; Makino, in Tokyo Bot. Mag. IX. (73); Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 445; Hegi, Ill. Fl. Mittel-Europ. I. 319, *t.* 35, *f.* 2; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 61.

Festuca fluitans L. Sp. Pl. ed. 1, 75.

Panicularia fluitans O. Ktze. Rev. Gen. Pl. II. 782; Britt. & Br. Ill. Fl. I. 213.

var. *leptorrhiza* Maxim. Prim. Fl. Amur. 320; Rgl. Tent. Fl. Ussuri. 168; Hack. in Bull. Herb. Boiss. VII. 712, et sér. 2, IV. 525; Matsum. Ind. Pl. Jap. II. 1: 57; Mak. & Nemoto, Fl. Jap. 1453.

Glyceria leptorrhiza Kom. Fl. Mansh. I. 307.

NOM. JAP. *Ukigaya*.

HAB. *Yezo.* Iburi, Kushiro.

DISTRIB. *var.* Yezo, Honshu, Kyushu, Amur, Ussuri, Manchuria. *sp.* Siberia, Europe, America and Tasmania.

303. *Glyceria tongluensis* Clarke, in Journ. Linn. Soc. Bot. XV. 119; Hook. f. Fl. Brit. Ind. VII. 346; Hack. in Bull. Herb. Boiss. VII. 712; Matsum. Ind. Pl. Jap. II. 1: 58; Nakai, Fl. Korea. II. 369; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 64.

Glyceria ischyoneura Steud. Syn. 428.

Glyceria caspia A. Gray, Bot. Jap. 435; Miq. Prol. Fl. Jap. 169; Fr. et Sav. Enum. Pl. Jap. II. 178, non Trin.

NOM. JAP. *Dojo-tsunagi*.

HAB. *Yezo.* Oshima, Iburi, Hidaka, Nemuro.

Kuriles. Etorofu.

DISTRIB. Kuriles, Yezo, Honshu, Shikoku, Kyushu, Korea and Temperate Himalaya.

Atropis Trin.

304. *Atropis kurilensis* Takeda, in Journ. Linn. Soc. Bot. XLII. 497.

Glyceria maritima var. *festucaeformis* Fr. Schm. Fl. Sachal. 200, non Heynh.

Festuca thalassica Miyabe et Miyake, Fl. Saghal. 580; Kudo, Contr. Fl. N. Saghal. 22, et Rep. Veg. N. Saghal. 59, non Kunth.

Atropis convoluta Hack. in Bull. Herb. Boiss. VII. 713; Matsum. Ind. Pl. Jap. II. 1: 41, non Griseb.

NOM. JAP. *Yezo-no-dojo-tsunagi*.

HAB. *Yezo*. Iburi, Hidaka, Kushiro, Nemuro, Kitami.

Kuriles. Kunashiri, Shikotan, Etorofu.

Southern Saghalien. Todomoshiri, Odomari, Ushoro, Toyohara, Shikka.

Northern Saghalien. Alexandrowsk, Tymi, Nyiwo.

DISTRIB. Saghalien, Kuriles and Yezo.

Festuca L.

305. *Festuca ovina* L. Sp. Pl. ed. 1, 73; Ledeb. Fl. Ross. IV. 350; Rgl. et Til. Fl. Ajan. 125; Maxim. Prim. Fl. Amur. 318; Fr. Schm. Fl. Sachal. 200; Miq. Prol. Fl. Jap. 170; Fr. et Sav. Enum. Pl. Jap. II. 181; Britt. & Br. Ill. Fl. I. 217; Miyabe, Fl. Kuril. 271; Price & Simpson, in Journ. Linn. Soc. Bot. XLI. 453; Kom. Fl. Mansh. I. 310; Matsum. Ind. Pl. Jap. II. 1: 56; Koidz. Pl. Sachal. 23; Takeda, Fl. Shikotan, 497; Miyabe & Miyake, Fl. Saghal. 581; Printz, Veg. Sib. Mong. Front. 138; Kudo, Rep. Veg. N. Saghal. 60; Hult. Fl. Kamtch. I. 144; Kom. Fl. Kamtch. I. 189.

Festuca ovina L. *a. vulgaris* Koch, Syn. Fl. Germ. et Helv. 812; Hack. in Bull. Herb. Boiss. VII. 713, et sér. 2, III. 506; Palib. Consp. Fl. Korea. III. 34; Forb. et Hemsl. Ind. Fl. Sin. III. 429; Nakai, Fl. Korea. II. 373; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 48.

NOM. JAP. *Ushinokegusa*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Kitami, Tokachi, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Etorofu, Shumushu.

Southern Saghalien. Todomoshiri, Odomari, Rutoka, Mauka, Tomari-oro, Ushoro, Toyohara, Motodomari, Shikka.

Northern Saghalien. Alexandrowsk, Schmidt-Penn.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Korea, China, Manchuria, Amur, Ussuri, Ajan, Kamtchatka, Siberia, Caucasus, Europe and North America.

306. *Festuca rubra* L. Sp. Pl. ed. 1, 74; Ledeb. Fl. Ross. IV. 352; Fr. Schm. Fl. Sachal. 200; Miq. Prol. Fl. Jap. 170; Fr. et Sav. Enum. Pl. Jap. II. 181; Britt. & Br. Ill. Fl. I. 216; Miyabe, Fl. Kuril. 271; Hook. f. Fl. Brit. Ind. VII. 713; Kom. Fl. Mansh. I. 310; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 496; Korsh. Pl. Amur. 416; Hack. in Bull. Herb. Boiss. VII. 713; Matsum. Ind. Pl. Jap. II. 1: 56; Nakai, Fl. Korea. II. 373; Takeda, Fl. Shikotan, 497; Miyabe & Miyake, Fl. Saghal. 581; Kudo, Fl. Paramushir, 74, Contr. Fl. N. Saghal. 22, et Rep. Veg. N. Saghal. 59; Printz, Veg. Sib. Mong. Front. 138; Hult. Fl. Kamtch. I. 144; Kom. Fl. Kamtch. I. 187; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 51.

NOM. JAP. *Oh-ushinokegusa*.

HAB. *Yezo.* Oshima, Shiribeshi, Okushiri, Iburi, Hidaka, Ishikari, Teshio, Kitami, Rishiri, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Etorofu, Urup, Paramushir, Shumushu.

Southern Saghalien. Todomoshiri, Odomari, Honto, Mauka, Ushoro, Toyohara, Motodomari, Shikka.

Southern Saghalien. Alexandrowsk, Nyiwo, Oha.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Korea, Manchuria, Amur, Kamtchatka, Siberia, Himalaya, Khasia, Caucasus, Europe, Africa and North America.

var. ***kitaibeliana*** Piper, in Contr. Nat. Herb. X. 23; Scribn. et Merr. in Contrib. Nat. Herb. XIII. 3: 80.

Festuca barbata Schrank, Prim. Fl. Salisb. 46, non L.

Festuca pubescens Willd.; Link, Enum. Pl. I. 91, non Zea.

Festuca kitaibeliana Schult. Mant. II. 398.

Festuca rubra L. var. *barbata* Hack. Monogr. Fest. 139; Kom. Fl.

Penins. Kamtsch. I. 187.

Festuca rubra L. var. *pubescens* Vasey, in Beal, Grasses N. Am. II. 607.

NOM. JAP. *Ke-oushinokegusa*.

HAB. *Yezo*. Kitami.

Kuriles. Kunashiri, Urup, Paramushir, Shumushu, Alaid.

DISTRIB. *Yezo*, *Kuriles*, Kamtchatka, Northern Asia, Europe and North America.

var. **planifolia** Hack. Monogr. Fest. Europ. 140, et in Bull. Herb. Boiss.

VII. 713; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 52.

NOM. JAP. *Hiroha-ushinokegusa*.

HAB. *Kuriles*. Kunashiri.

Southern Saghalien. Odomari, Toyohara, Honto, Shikka.

DISTRIB. *Saghalien*, *Kuriles* and Honshu.

307. Festuca elatior L. Sp. Pl. ed. 1, 75; Ledeb. Fl. Ross. IV. 353.

subsp. **pratensis** Hack. Monogr. Fest. Europ. 150, et in Bull. Herb. Boiss. VII. 713; Matsum. Ind. Pl. Jap. II. 1: 56.

Festuca pratensis Huds. Fl. Angl. ed. 1, 37.

NOM. JAP. *Hirohano-ushinokegusa*.

HAB. *Yezo*. Nemuro.

Southern Saghalien. Toyohara.

DISTRIB. *sp.* *Saghalien*, *Yezo*, *Siberia*, *Europe*, and introduced in North America.

form. **subsimplex** Hack. in Bull. Herb. Boiss. VII. 713; Matsum. Ind. Pl. Jap. II. 1: 56.

HAB. *Yezo*. Oshima.

DISTRIB. Endemic form.

308. Festuca eriantha Honda, in Tokyo Bot. Mag. XII. 135, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 45; Tatewaki, in Trans. Sapporo Nat. Hist. Soc. IX. 155.

NOM. JAP. *Araitso-so*.

HAB. *Kuriles*. Urup, Alaid.

DISTRIB. Endemic.

309. *Festuca subulata* Trin. in Bong. Végét. Sitcha, 173; Scribn. et Merr. in Contr. U. S. Nat. Herb. XIII. 3: 79.

var. *japonica* Hack. in Bull. Herb. Boiss. VII. 713; Matsum. Ind. Pl. Jap. II. 1: 57; Makino & Nemoto, Fl. Jap. 1452; Honda, in Jour. Facult. Sci. Imp. Univ. Tokyo, III. 52.

Festuca gigantea Fr. Schm. Fl. Sachal. 200; Miyabe & Miyake, Fl. Saghal. 582; Kudo, Contr. Fl. N. Saghal. 22, et Rep. Veg. N. Saghal. 60, non Vill.

NOM. JAP. *O-toboshigara*, *Oni-toboshigara*.

HAB. *Yezo*. Iburi, Ishikari, Hidaka, Kushiro, Nemuro.

Southern Saghalien. Toyohara.

DISTRIB. *var.* Saghalien, *Yezo*, Honshu. *sp.* Alaska and North-western part of North America.

310. *Festuca parvigluma* Steud. Syn. I. 305; Miq. Prol. Fl. Jap. 170; Fr. et Sav. Enum. Pl. Jap. II. 180; Hack. in Bull. Herb. Boiss. VII. 713, et sér. 2, III. 506; Palib. Consp. Fl. Korca. III. 35; Forb. et Hemsl. Ind. Fl. Sin. III. 429; Matsum. Ind. Pl. Jap. II. 1: 56; Nakai, Fl. Korea. II. 373; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 53.

NOM. JAP. *Toboshigara*.

HAB. *Yezo*. Oshima, Iburi, Ishikari.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Korea and China.

***Bromus* L.**

311. *Bromus ciliatus* L. Sp. Pl. ed. 1, 76; Ledeb. Fl. Ross. IV. 358; Trautv. et Mey. Fl. Ochot. 102; Maxim. Prim. Fl. Amur. 318; Kunth, Enum. Pl. I. 419; Wats. Bot. Calif. II. 320; Fr. Schm. Fl. Sachal. 200; Korsh. Pl. Amur. 416; Hack. in Bull. Herb. Boiss. VII. 714; Britt. & Br. Ill. Fl. I. 219; Kom. Fl. Mansh. II. 43; Nakai, Fl. Korea. II. 374; Miyabe & Miyake, Fl. Saghal. 584; Kudo, Contr. Fl. North. Saghal. 22, et Rep. Veg. N. Saghal. 61; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 37.

NOM. JAP. *Kushiro-chahiki*, *Miyama-chahiki*.

HAB. *Yezo*. Iburi, Kushiro, Nemuro.

Kurile. Kunashiri, Shikotan, Etorofu.

Southern Saghalien. Odomari, Tomarioro, Ushoro, Toyohara, Motodomari, Shikka.

Northern Saghalien. Tim.

DISTRIB. Saghalien, Kuriles, Yezo, Korea, Manchuria, Dahuria, Ochotsk and North America.

312. *Bromus Tatewakii* Honda, in Tokyo Bot. Mag. XLII. 135, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 39.

NOM. JAP. *Yezo-chahiki*.

HAB. *Yezo*. Oshima.

DISTRIB. Endemic species.

313. *Bromus pauciflorus* Hack. in Bull. Herb. Boiss. VII. 713, et sér. 2, III. 506; Forb. et Hemsl. Ind. Fl. Sin. III. 430; Matsum. Ind. Pl. Jap. II. 1: 44; Nakai, Fl. Korea. II. 374.

Festuca pauciflora Thunb. Fl. Jap. 52; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 55.

Festuca remotiflora Steud. Syn. I. 315; Diels, Fl. C. China, 226.

Schenodorus remotiflorus Miq. Prol. Fl. Jap. 171; Fr. et Sav. Enum. Pl. Jap. II. 181.

NOM. JAP. *Kitsune-gaya*.

HAB. *Yezo*. Oshima, Okushiri, Iburi, Hidaka, Ishikari, Kushiro.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Korea and China.

314. *Bromus mollis* L. Sp. Pl. ed. 2, 112; Ledeb. Fl. Ross. IV. 361; Kunth, Enum. Pl. I. 413; Matsum. Ind. Pl. Jap. II. 1: 44; Hegi, Ill. Fl. Mitteleurop. I. 365.

Bromus hordeaceus L. Sp. Pl. ed. 1, 77, p. p.; Britt. & Br. Ill. Fl. I. 222; Hack. in Bull. Herb. Boiss. VII. 714; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 615; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 41.

NOM. JAP. *Hama-chahiki*.

HAB. *Yezo*. Shiribeshi, Ishikari, Kushiro.

DISTRIB. *Yezo*, Siberia, Asia Minor, Europe, Madeira, Canary, North Africa and adventive in North America.

315. *Bromus secalinus* L. Sp. Pl. ed. 1, 76; Ledeb. Fl. Ross. IV. 364; Kunth, Enum. Pl. I. 413; Watson, Bot. Calif. II. 319; Britt & Br. Ill. Fl. I. 222; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 44; Hegi, Ill. Fl. Mittel-Europ. I. 262; Miyabe & Miyake, Fl. Saghal. 583; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 42.

NOM. JAP. *Karasu-no-chahiki*.

HAB. *Yezo*. Oshima, Ishikari, Tokachi.

Southern Saghalien. Odomari, Ushoro.

DISTRIB. Altai, Caucasus, Europe, North Africa, introduced into Saghalien, Yezo, Honshu and North America.

316. *Bromus japonicus* Thunb. Fl. Jap. 52, *t.* 11; Miq. Prol. Fl. Jap. 171; Fr. et Sav. Enum. Pl. Jap. II. 181; Hack. in Bull. Herb. Boiss. VII. 714, et sér. 2, III. 506; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 618; Diels, Fl. C. China, 226; Palib. Consp. Fl. Korea. III. 35; Forb. et Hemsl. Ind. Fl. Sin. III. 430; Matsum. Ind. Fl. Jap. II. 1: 44; Hegi, Ill. Fl. Mittel-Europ. I. 367; Nakai, Fl. Korea. II. 374; Robins. & Fern. in Gray's New Man. Bot. ed. 7, 163; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 41.

NOM. JAP. *Suzume-no-chahiki*.

HAB. *Yezo*. Oshima, Iburu.

DISTRIB. Yezo, Honshu, Shikoku, Kyushu, Korea, China, India, Persia, Asia Minor, Europe, South Africa, St. Helena, and adventive in North America.

317. *Bromus racemosus* L. Sp. Pl. ed. 2, 114; Ledeb. Fl. Ross. IV. 326; Kunth, Enum. Pl. I. 413; Watson, Bot. Calif. II. 320; Britt. & Br. Ill. Fl. I. 222; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 613; Hegi, Ill. Fl. Mittel-Europ. II. 363.

HAB. *Yezo*. Ishikari (Adv. from North America).

DISTRIB. Asia, Europe and North America.

318. *Bromus arcticus* Shear, in Scribn. & Merr. in Contrib. U. S. Nat. Herb. XIII. 3: 83; Hult. Fl. Kamtch. I. 146.

Bromus ornans Kom. in Fedde, Repert. XIII. 87, et Fl. Penins. Kamtsch. I. 191.

Bromus arcticus Shear, var. *ornans* Hult. Fl. Kamtch. I. 147, Pl. 6, fig. d.

var. **paramushirensis** (Kudo) Miyabe et Kudo, *comb. nov.*

Bromus paramushirensis Kudo, Fl. Paramushir, 75.

NOM. JAP. *Chishima-chahiki*.

HAB. *Kuriles*. Paramushir.

DISTRIB. Endemic. *sp.* Alaska and Kamtchatka.

Reexamination of the Paramushir specimens has shown that the leaves are hirsute on the upper and glabrous on the under side. The lower sterile glumes are acuminate or obtuse, and the upper are acute or rounded at the apex and 5-nerved. The fertile glumes are 7-9-nerved, and the emargination at the apex is not so prominent as in the Kamtchatican specimen, (collected at Ustj-Kamtchatka, on Aug. 6, 1920, by Isao Namikawa). Anthers are 2.5-4 mm in length.

***Brachypodium* BEAUV.**

319. *Brachypodium sylvaticum* Beauv. Agrost. 101; Ledeb. Fl. Ross. IV. 346; Hook. f. Fl. Brit. Ind. VII. 362; Koidz. Fl. Symb. Or.-Asiat. 80.

Triticum sylvaticum Moench. Fl. Hass. no. 103.

Bromus sylvaticum Poll. Hist. Pl. Pal. I. 118.

Brachypodium sylvaticum Roem. et Schult. Syst. Veg. II. 741; Aschers. u. Graebn. Synop. Mitteleur. Fl. II. 1: 635; Hack. in Bull. Herb. Boiss. VII. 714.

Bromus conformis Steud. Syn. Gram. 323, p. p.

Brachypodium japonicum Miq. Prol. Jap. 174, p. p.

NOM. JAP. *Yezo-yamakamojigusa*.

HAB. *Yezo*. Oshima, Shiribeshi, Hidaka, Ishikari, Teshio, Kitami, Kushiro.

Kuriles. Kunashiri.

Southern Saghalien. Mauka.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Himalaya, India, Persia, Asia Minor, Europe, North Africa and Madeira.

320. *Brachypodium miserum* Koidz. in Tokyo Bot. Mag. XXXIX. 303, (excl. syn. Miq.); Tatewaki, Pl. Akan Reg. (47); Honda, in Nakai, Veg. Mt. Apoi, 73, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 32.

Festuca misera Thunb. Fl. Jap. 52.

Brachypodium japonicum Hack. in Bull. Herb. Boiss. VII. 714 (excl. Syn. Steud.); Matsum. Ind. Pl. Jap. II. 1: 43, non Miq.

Agropyrum miserum Tanaka, in Bult. Sc. Fakult. Terkult., Kjuŝu Imp. Univ. I. 197.

Brachypodium sylvaticum var. *miserum* Koidz. Fl. Symb. Or.-Asiat. 80.

NOM. JAP. *Yama-kamojigusa*.

HAB. *Yezo*. Oshima, Shiribeshi, Okushiri, Iburi, Hidaka, Rishiri, Kushiro.

Southern Saghalien. Mauka.

DISTRIB. Saghalien, Yezo, Honshu, Shikoku and Kyushu.

Lolium L.

321. *Lolium temulentum* L. Sp. Pl. ed. 1, 83; Kunth, Enum. Pl. I. 537; Ledeb. Fl. Ross. VI. 345; Britt. & Br. Ill. Fl. I. 225; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 750; Hegi, Ill. Fl. Mittel-Europ. I. 376; Miyabe & Miyake, Fl. Saghal. 584; Kudo, Rep. Veg. N. Saghal. 61; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 13.

NOM. JAP. *Dokumugi*.

HAB. *Yezo*. Iburi, Ishikari, Tokachi.

Southern Saghalien. Odomari.

Northern Saghalien. Tim.

DISTRIB. Native of Temperate Asia, Europe and North Africa, and introduced into Japan, America and Australia.

322. *Lolium perenne* L. Sp. Pl. ed. 1, 83; Ledeb. Fl. Ross. IV. 343; Kunth, Enum. Pl. I. 436; Fr. et Sav. Enum. Pl. II. 186; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 1: 735; Britt. & Br. Ill. Fl. I. 225; Hack. in Bull. Herb. Boiss. VII. 714; Matsum. Ind. Pl. Jap. II. 1: 63; Hegi, Ill. Fl. Mittel-Europ. I. 379; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 13.

NOM. JAP. *Hosomugi*, *Chahikimugi*.

HAB. *Yezo*. Oshima, Ishikari.

DISTRIB. Native of Temperate Asia, Europe and North Africa, and introduced into Japan, North America and Australia.

***Agropyrum* J. GAERTN.**

323. *Agropyrum ciliare* Franch. Pl. David. I. 341; Palib. Act. Hort. Petrop. XIX. 135; Kom. Fl. Mansh. I. 315; Rendl. in Journ. Linn. Soc. XXXVI. 432; Koidz. Fl. Symb. Or.-Asiat. 79.

Triticum ciliare Trin. in Bunge, Enum. Pl. Sin. Bor. 72; Maxim. Prim. Fl. Amur. 478; Korsh. in Act. Hort. Petrop. XII. 414.

Brachypodium ciliare Maxim. in Bull. Nat. Soc. Mosc. 71.

Brachypodium chinense S. Moore, in Journ. Bot. XIII. 230.

Agropyrum semicostatum Nees var. *ciliare* Hack. in Bull. Herb. Boiss. XI. 506.

Agropyrum semicostatum Nees var. *transiens* Hack. l. c. 507; Rendle, in Journ. Linn. Soc. XXXVI. 432; Nakai, Fl. Korea. II. 375.

Brachypodium japonicum Miq. var. *minor* Miq. Prol. Fl. Jap. 175.

Agropyrum semicostatum Hack. in Bull. Herb. Boiss. VII. 714; Matsum. Ind. Pl. Jap. II. 1: 33; Makino & Nemoto, Fl. Jap. 1414; Honda, in Tokyo Bot. Mag. XLI. 381, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 29, non Nees.

NOM. JAP. *Kamojigusa*, *Higenaga-kamojigusa*, *Natsuno-chahikigusa*.

HAB. *Yezo*. Oshima, Ishikari, Kushiro..

Southern Saghalien. Tomarioro, Toyohora, Shikka.

DISTRIB. Saghalien, Yezo, Honshu, Shikoku, Tsushima, Korea, Manchuria, China and E. Siberia.

324. *Agropyrum yezoense* Honda, in Tokyo Bot. Mag. XLIII. 292, in Nakai, Veg. Daisetsusan Mts. 14, et in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 30.

Agropyrum caninum Hack. in Bull. Herb. Boiss. VII. 714; Matsum. Ind. Pl. Jap. II. 1: 33, non Beauv., quoad pl. Sapporo?

NOM. JAP. *Yezo-kamojigusa*.

HAB. *Yezo*. Iburi, Ishikari, Kitami, Tokachi, Kushiro.

DISTRIB. Endemic.

325. *Agropyrum repens* Beauv. Agrost. 149; Hook. f. Fl. Brit. Ind. VII. 370; Britt. & Br. Ill. Fl. I. 226; Kom. Fl. Mansh. I. 313; Hegi, Ill. Fl. Mittel-Europ. I. 383; Miyabe & Miyake, Fl. Saghal. 584; Kudo, Contr. Fl. N. Saghal. 22, et Rep. Veg. N. Saghal. 61; Hult. Fl. Kamtch. I. 150; Kom. Fl. Kamtch. I. 193; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 29.

Trisetum repens L. Sp. Pl. ed. 1, 86; Ledeb. Fl. Ross. IV. 340; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. I: 644.

NOM. JAP. *Himekamojigusa*, *Shibamugi*.

HAB. *Yezo*. Shiribeshi, Ishikari.

Southern Saghalien. Odomari, Mauka, Tomarioro, Toyohara.

Northern Saghalien. Alexandrowsk, Tim.

DISTRIB. Saghalien, Yezo, Kamtchatka, Siberia, Caucasus, Kashmir, Tibet, Asia Minor, North Africa, Europe and North America.

326. *Agropyrum sachalinense* Honda, sp. nov.

Culmi graciles, 40–50 cm alti, glaberrimi. Vaginae laeves. Folia linearia, glaberrima. Panicula angusta, linearis, erectiuscula, 7 cm longa, 3–5 mm lata, glabra. Spiculae lanceolatae, 10 mm longae, glabrae, 4-florae. Glumae steriles aequales, lanceolatae, 6–7 mm longae, aristato-acuminatae, 3-nerves, glabrae. Gluma fertilis oblongo-lanceolata, 5-nervis, glabra, 7 mm longa, apice aristata, arista recta, 6 mm longa. Palea aequilonga, lanceolata, bicarinata, carinis ciliatis.

NOM. JAP. *Koshibamugi*.

HAB. *Southern Saghalien*. Toyohara.

DISTRIB. Endemic.

Elymus L.

327. *Elymus mollis* Trin. in Spr. Neue Entdeck. II. 72; Ledeb. Fl. Ross. IV. 332; Steud. Syn. I. 350; Bong. Vég. Sitcha, 174; Trautv. et Mey. Fl. Ochot. 102; Rgl. et Til. Fl. Ajan. 125; Maxim. Prim. Fl. Amur. 317; Fr. Schm. Fl. Sachal. 198; Miyabe, Fl. Kuril. 271; Kom. Fl. Mansh. I. 319; Takeda, Fl. Shikotan, 497; Miyabe & Miyake, Fl. Saghal. 585; Kudo,

Fl. Paramushir, 75, Contr. Fl. N. Saghal. 22, et Rep. Veg. N. Saghal. 59; Kom. Fl. Kamtch. I. 198; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 20.

Elymus arenarius Miq. Prol. Fl. Jap. 174; Fr. et Sav. Enum. Pl. Jap. II. 184; Hack. in Bull. Herb. Boiss. VII. 715; Matsum. Ind. Pl. Jap. II. 1: 52, non. L.

Elymus arenarius L. var. *mollis* Koidz. Pl. Sachal. 24.

Elymus arenarius L. ssp. *mollis* Hult. Fl. Kamtch. I. 153.

NOM. JAP. *Tenkigusa*, *Tenki*, *Hama-ninniku*, *Kusado*.

HAB. *Yezo*. Oshima, Shiribeshi, Okushiri, Iburi, Hidaka, Ishikari, Teshio, Kitami, Rishiri, Tokachi, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Etorofu, Urup, Shimushir, 'Brat-Chirnoef, Paramushir, Shumushu.

Southern Saghalien. Todomoshiri, Honto, Mauka, Tomarioro, Ushoro, Odōmari, Toyohara, Shikka, Robben Isl.

Northern Saghalien. Alexandrowsk, Nyiwo, Pronge-Baikal, Oha, Schmidt-Penn.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Manchuria, Amur, Ajan, Ochotsk, Kamtchatka, Aleutian Is., Alaska to Oregon in N. America.

328. *Elymus villosissimus* Scribn. in U. S. Dept. Agr. Div. Agrost. Bull. 11: 56; Scribn. & Merr. in Contr. U. S. Nat. Herb. XIII. 3: 89; Hult. Fl. Kamtch. I. 156; Kom. Fl. Penins. Kamtsch. I. 197.

Elymus mollis Tatewaki, Pl. Isl. Alaid, 156, non Trin.

NOM. JAP. *Shirage-tenkigusa*.

HAB. *Kuriles*. Alaid.

DISTRIB. N. Kuriles, Kamtchatka, Chukch Peninsula to Yeniseisk, Wrangel, Aleutian and Pribilof Islands.

329. *Elymus cylindricus* Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 17.

Elymus dahuricus Turcz. var. *cylindricus* Franch. Pl. David. I. 342.

NOM. JAP. *Kohamamugi*.

HAB. *Southern Saghalien*. Toyohara.

DISTRIB. Saghalien and Korea.

330. *Elymus dahuricus* Turcz. in Bull. Soc. Nat. Mosc. (1838) 105, et (1867) 62; Ledeb. Fl. Ross. IV. 331; Steud. Syn. 348; Hook. f. Fl. Brit. Ind. VII. 374; Korsh. Pl. Amur. 413; Hack. in Bull. Herb. Boiss. VII. 715; Diels, Fl. C. China, 226; Kom. Fl. Mansh. 1. 318; Forb. et Hemsl. Ind. Fl. Sin. III. 433; Matsum. Ind. Pl. Jap. II. 1: 52; Koidz. Pl. Sachal. 24; Nakai, Fl. Korea. II. 377; Takeda, Fl. Shikotan, 497, excl. syn.; Miyabe & Miyake, Fl. Saghal. 586; Printz, Veg. Sib. Mong. Front. 142; Honda, in Journ. Facult. Sci. Univ. Tokyo, III. 18.

NOM. JAP. *Hama-mugi*.

HAB. *Yezo*. Oshima, Shiribeshi, Okushiri, Iburi, Hidaka, Ishikari, Teshio, Rishiri, Rebun, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Etorofu.

Southern Saghalien. Odomari, Mauka, Tomarioro, Ushoro, Toyohara, Motodomari, Shikka.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Korea, Manchuria, China, Mongolia, Himalaya and Dahuria.

331. *Elymus sibiricus* L. Sp. Pl. ed. 1, 83; Kunth, Enum. Pl. I. 451; Ledeb. Fl. Alt. I. 123, et Fl. Ross. IV. 330; Steud. Syn. I. 348; Maxim. Prim. Fl. Amur. 317; Rgl. Tent. Fl. Ussuri. 167; Fr. Schm. Fl. Sachal. 198; Hook. f. Fl. Brit. Ind. VII. 373; Korsh. Pl. Amur. 413; Hack. in Bull. Herb. Boiss. VII. 715; Kom. Fl. Mansh. I. 317; Forb. et Hemsl. Ind. Fl. Sin. III. 434; Matsum. Ind. Pl. Jap. II. 1: 53; Printz, Veg. Sib. Mong. Front. 142; Nakai, Fl. Korea. II. 377; Miyabe & Miyake, Fl. Saghal. 586; Kudo, Contr. Fl. N. Saghal. 22, et Rep. Veg. N. Saghal. 62; Hult. Fl. Kamtch. I. 155; Kom. Fl. Penins. Kamtsch. I. 196; Honda, in Journ. Facult. Sci. Imp. Univ. Tokyo, III. 19.

NOM. JAP. *Yezo-mugi*, *Siberia-mugi*.

HAB. *Yezo*. Hidaka.

Southern Saghalien. Ushoro, Toyohara, Shikka.

Northern Saghalien. Alexandrowsk, Tim, Tymi.

DISTRIB. Saghalien, Yezo, Korea, Manchuria, China, Himalaya, Siberia, Kamtchatka and Eastern Europe.

GRAMINEÆ—BAMBUSEÆ

(By T. NAKAI)

Sasamorpha Nakai, gen. nov.

Arundinaria Hackel in Bull. Herb. Boiss. VII. 716 (1899), cfr. *Arundinaria purpurascens*.

Bambusa Hackel, l.c. 720, cfr. *Bambusa borealis*.

Arundinaria Sect. *Bambusoides* Shibata & Makino ex Makino in Bot. Mag. Tokyo, XIV. 20, in nota sub *Arundinaria borealis* (1900), pro parte.

Sasa Makino & Shibata in Bot. Mag. Tokyo, XV. 18 (1901), pro parte.

Pseudosasa Makino in Journ. Jap. Bot. II. 15 (1920), pro parte.

Rhizoma repens. Culmus monopodialis ramosus, nodus haud elevatus. Gemma in quoque nodo unica. Rami e basi octavo-quinto nodo ramulosi. Folia basi vaginantia; vagina ore truncata sine setis oralibus; lamina cum vagina articulata lanceolata vel lineari-lanceolata, nervis fenestralibus, utrinque glabra vel subtus pilosa vel velutina, adulta saepe albo-marginata, margine setis deciduis spinulosa. Inflorescentia in apice ramuli terminalis. Spiculæ decompositæ pleuranthæ; bracteæ 2 suffultæ. Glumæ purpureæ, primaria margine pilosa pleurinervis non fenestralis, secundaria dorso late sulcata. Paleæ parvæ 3 homomorphæ membranaceæ. Stamina 6, antheræ biloculares. Styli trifidi ramis pilosis.

Species 10 in Japonia et in Korea endemicæ.

This genus is nearest to *Sasa* and *Pseudosasa*; it is distinguished from them as follows.

***Sasa*:**—Stem ascending often reflexed above *sympodial*. *Node prominent*. Leaves not shining much. *Oral setæ patent rigid scabrous*. Veins of glumes more or less tessellate. *Paleæ all alike*. *Stamens 6*.

***Sasamorpha*:**—Stem upright *monopodial*. *Node not prominent*. Leaves shining. *Oral setæ none*. Veins of glumes parallel not tessellate. *Paleæ all alike*. *Stamens 6*. Branches of style pilose or plumose.

***Pseudosasa*:**—Stem upright *monopodial*. *Node not prominent*. Leaves not shining much. *Oral setæ smooth waved*. *Palea opposite to the interior*

glume twice as long as the rest. Stamens 3 (rarely 4). Branches of style plumose.

332. *Sasamorpha borealis* Nakai, comb. nov.

Bambusa borealis Hackel in Bull. Herb. Boiss. VII. 720 (1899).

Sasa borealis Makino & Shibata in Bot. Mag. Tokyo, XV. 24 (1901), quoad plantam ex Yezo.—Matsumura, Ind. Pl. Jap. II. 1: 96 (1905), quoad pl. ex Yezo.

Sasa spiculosa Camus (non Makino), Monogr. Bamb. 18, Pl. I, fig. A. (1913); excl. syn.

NOM. JAP. *Jidake* (K. Miyabe).

HAB. *Yezo*: Prov. Kushiro, Akkeshi, (U. Faurie no. 10899—type of *Bambusa borealis*); ibidem (K. Miyabe); ibidem (Y. Kudo, Herb. ipsius); Riruran (K. Miyabe no. 301—type of *Bambusa borealis*). Prov. Nemuro, Nemuro (U. Faurie no. 2800). Prov. Hidaka, Mt. Apoi (T. Nakai). Prov. Iburi, Tomakomai (Y. Kudo & T. Yoshimi); circa fontem calidem Noboribetsu (K. Ôshima).

DISTRIB. Endemic.

This species is distinguished from *Sasamorpha purpurascens* Nakai, comb. nov. (*Arundinaria purpurascens* Hackel, *Sasa spiculosa* Makino, *Sasa purpurascens* Camus) by having entirely glabrous sheath from the beginning.

***Sasa* Makino & Shibata**

***Sasa* Sect. *Macrochlamys* Nakai, sect. nov.**

Arundinaria Sect. *Bambusoides* Shibata & Makino in Tokyo Bot. Mag. XIV. 20 (1900), pro parte.

Sasa Makino & Shibata in Tokyo Bot. Mag. XV. 18 (1901), pro parte.

Rhizoma repens ramosum sympodiale pleuranthum. Caulis ascendens quadratus vel quinque ramosus ita triennis vel quadriennis, nodus elevatus. Vagina foliorum ampla soluta. Setae orales vulgo destitutae sed interdum pauperrime evolutae tum rigidae scabrae. Lamina cum vagina articulata, lanceolata vel oblonga, venis tessellatis, venis primariis longitudine parallelis infra cum costis elevatis. Inflorescentia ex bractea semiexserta vel parce

exerta ita pedunculus saepe insertus, racemosa vel paniculata ex ramis primariis (non ex caule) laterali evoluta, ramis in fructu reflexis. Spiculæ 3-6 floræ basi bibracteatae.

Species 5 in Japonia, Dagelet et in Korea indigenæ.

333. *Sasa kurilensis* Makino & Shibata in Bot. Mag. Tokyo, XV. 27 (1901)—Matsumura, Ind. Pl. Jap. II. 1: 96 (1905)—Camus, Monogr. Bamb. 20 (1913)—Miyabe & Miyake, Fl. Saghal. 588 (1915)—Kudo, Report Veg. N. Saghal. 62 (1924)—Nakai in Journ. Arn. Arb. VI. 149 (1925)—Makino & Nemoto, Fl. Jap. 1495 (1925)—Makino in Journ. Jap. Bot. V. 3 (1928).

Arundo Donax Georgi (non Linnæus), Geogr. Phys.-Naturhist. Beschr. Russ. Reich. III. 4: 705 (1802).

Arundinaria kurilensis Ruprecht, in Bull. Phys. Math. Acad. St. Pétersb. VIII. 121 (1850)—Ledebour, Fl. Ross. IV. 395 (1853)—Steudel, Syn. Pl. Glum. I. 335, no. 15 (1855)—Munro in Trans. Linn. Soc. XXVI. 17 (1870)—A. & C. Rivière, Bamb. 16 (1878)—Makino in Tokyo Bot. Mag. XIV. 67 (1900).

Arundinaria kurilensis Ruprecht var. *genuina* Fr. Schmidt in Mém. Acad. Imp. Sci. St. Pétersb. 7^e. sér. XII. 2: 198, (Fl. Sachalinensis) (1868).

Bambusa kurilensis Miyabe in Mem. Bost. Soc. Nat. Hist. IV. 271 (1890)—Matsumura, Shokubutsu Mei-I, 44 (1895).

Bambusa kurilensis Hackel in Bull. Herb. Boiss. VII. 719 (1899).

Sasa paniculata Camus (non Makino & Shibata), Monogr. Bamb. 24, Pl. II, fig. C & D (1913).

Three varieties are distinguished.

a. *Sasa kurilensis* var. ***genuina*** Nakai, comb. nov.

Arundinaria kurilensis var. *genuina* Fr. Schmidt, l. c.

NOM. JAP. *Chishima-sasa*.

HAB. *Sachalin*: Sekiguchitôge (T. Miyake); Mt. Tosso (N. Hiratsuka & T. Iwadare); Notasan (T. Miyake); Mt. Ushoro (T. Miyake); Aobatôge (Y. Kudô & M. Tatewaki).

Kuriles: Etorofu: Shibetoro-Moyoro (Kenji Miyabe & Tanaka); Mt. Atoiya (T. Kawakami); inter Toshimoi & Rubetsu (Y. Kudô). Urup: Tokotan (K. Jimbô). Ketoi: Kodakigawa (M. Tatewaki).

Yezo: Prov. Iburi: Mororan (K. Miyabe); ibidem (Y. Tokubuchi);

ibidem (Y. Kudô); Mt. Makkarinupuri (Y. Kudô). Prov. Ishikari: Sôunkyo (T. Nakai); Mt. Daisetsuzan (S. Igarashi); ibidem (T. Nakai). Prov. Kitami: Wakkanai (H. Ishidoya); Riishiri (Y. Kudô).

DISTRIB. Honshu.

b. *Sasa kurilensis* var. **cernua** Nakai, comb. nov.

Sasa cernua Makino in Journ. Jap. Bot. VI. 12 (1929).

Culmus, folia et inflorescentia quam *genuina* plus duplo majora.

NOM. JAP. *Okuyama-zasa*.

HAB. *Yezo*: Prov. Teshio: Osajimagoe in Experiment Forest of Hokkaido Imp. Univ. (M. Tatewaki no. 17010). Prov. Ishikari: Soranuma (K. Miyabe).

Kuriles: Urup: in betulinis Kobune (M. Tatewaki no. 17183'). Kotoi: Shimizugawa (M. Tatewaki).

DISTRIB. Honshu, Dagelet, Korea (Prov. Kanhoku).

c. *Sasa kurilensis* var. **Uchidai** Makino in Journ. Jap. Bot. V. 41 (1928).

Sasa Uchidai Makino in Journ. Jap. Bot. V. 4 (1928).

Culmus ut var. *cernua*, sed folia multo angustiora.

NOM. JAP. *Nagaba-nemagari-zasa*.

HAB. *Yezo*: Prov. Iburi: circa lacum Shikotsu (M. Tatewaki).

DISTRIB. Honshu (Prov. Rikuchû, Prov. Shimotsuke).

Sasa Sect. **Crassinodi** Nakai, Veg. Mt. Apoi prov. Hidaka, 24 (1930).

Rhizoma repens ramosum sympodiale pleuranthum. Culmus ascendens vel erectus simplex vel semel ramosus. Basis internodi valde incrassata ita vagina foliorum basi valde inflata globularis. Inflorescentia culmo lateralis axillaris. Spiculæ laxiflores. Bractæ ex spicula remotæ. Gluma fenestralis.

Species 12 in Japonia indigenæ, quarum 5 in Yeso et Sachalin sponte nascent.

- | | | | |
|---|---|--|----------------------------|
| 1 | { | Vagina saltem inferiora erecto-patentim hirtella. | <i>S. samaniana</i> |
| | | Vagina adpresse retrorso-ciliata vel glabra | 2 |
| 2 | { | Vagina foliorum superiorum apice dense hispidula. | |
| | | Pedunculi fere glaberrimi. | <i>S. pseudo-nipponica</i> |
| | | Vagina foliorum superiorum glabra. | 3 |

- 3 { Spiculæ purpureæ racemosi vel paniculati. Folia non albo-marginata.
 Culmus et vagina glabra. *S. depauperata*
 4 { Spiculæ virides. Folia aestate proveciore albo-marginata.
 Culmus et vagina juvenilis retrorso-hispidulus. 4
 4 { Spiculæ racemosæ 1-2 floræ. Folia lanceolata. *S. apoiensis*.
 Spiculæ paniculatæ 3-8 floræ. Folia lanceolato-oblonga. *S. kozasa*

334. *Sasa samaniana* Nakai, Veg. Mt. Apoi prov. Hidaka, 31 (1930), cum descript. Japon.

Sasæ hizaoriense affinis, sed culmo graciliore, foliis angustioribus, vaginis nunquam purpurascentibus exqua statim dignoscenda.

Rhizoma repens ramosum 2-3 mm. latum. Culmus 40-60 cm. altus simplex e basi erectus vel basi ascendens, internodus elongatus glaberrimus lucidus, nodus incrassatus, vagina basi globulare turgida dense hirsuta. Folia vera in apice culmorum confertim 3-5, vagina hirsuta ore appendice linguiforme margine setis elongatis scabris patentibus instructa, lamina lanceolata 112-185 mm. longa viridis supra sparsissime pilosella infra hirtella glaucescens, margine hispidulo-ciliata, basi mucronata apice acuminata. Flores mihi ignoti.

NOM. JAP. *Apoi-zasa*.

HAB. *Yezo*: in declivitate montis Apoi, ubi cum *Sasa apoiense* socialiter crescit. (T. Nakai—typus in Herb. Imp. Univ. Tokyo).

DISTRIB. Endemic.

335. *Sasa pseudo-nipponica* Tatewaki in sched. Herb. Imp. Univ. Hokkaido.

Rhizoma repens sympodiale ramosum 3-4 mm. latum. Culmus ascendens, internodi ad apicem purpurascentes sub nodos minute retrorso-hispidulus sed saepe glabrescentes; nodi incrassati. Vagina foliorum basi circum nodum subgloboso-inflata adulta subglabra sed juvenilis retrorso hispidula esse videtur, foliorum superiorum dense retrorso-hispidula. Setæ orales rigidæ patententes scabræ. Lamina foliorum lanceolato-oblonga vel oblongo-lanceolata 13-21 cm. longa 3,5-4,7 cm. lata basi rotundata in petiolem circ. 5 mm. latum mucronata apice attenuata supra luciduscula viridis glabra infra albo-hirtella. Scapus lateralis e basi culmi evolutus folia superans glaber vaginis efoliatis

obtectus usque 74 cm. longus. Pedunculi præter apicem minutissime sparsissime ciliatas glabri. Spiculæ paniculatæ 5–7 floræ cum axi pilosa. Axis et rami inflorescentiæ scabri sed fere eciliati. Bracteæ remotæ vix 1 mm. longæ ciliatæ. Glumæ virides, exteriores 7–8 mm. longæ parallelo-nervæ supra medium tessellatæ præter marginem ciliatam glaberrimæ, interiores 5–7 mm. longæ dorso sulcatæ et margine sulci pilosæ. Paleæ 3 membranaceæ oblongæ margine albo-ciliatæ vix 1 mm. longæ. Stamina 6-flora? Styli trifidi plumosi.

NOM. JAP. *Karafuto-kozasa*.

HAB. *Sachalin*: Tei in littore occidentale (M. Tatewaki—typus in Herb. Imp. Univ. Hokkaidô).

DISTRIB. Endemic.

336. *Sasa depauperata* Nakai, sp. nov.

Sasa nipponica var. *depauperata* Takeda in Journ. Linn. Soc. Bot. XLII. 498 (Fl. Isl. Shikotan) (1914).

Differt a *Sasa nipponica* omnibus partibus minoribus, spiculis intensius coloratis, foliis brevioribus haud albo-marginatis. *Sasa nipponica* autem in Yezo nondum detecta. Descriptiones optimas Dr. H. Takeda in loco supra citato obtulit, ita duplicatio est inutilis.

NOM. JAP. *Shikotan-zasa*.

HAB. *Kuriles*: Shikotan: Kompu-usu (M. Arai—co-type in Herb. Imp. Univ. Hokkaido); Matsugahama (Kenji Miyabe & Tanaka); Shikotan (T. Kawakami); ibidem (M. Tatewaki).

DISTRIB. Endemic.

337. *Sasa apoiensis* Nakai, Veg. Mt. Apoi prov. Hidaka, 24 (1930). cum descript. Japonensibus.

Sasæ nipponicæ affinis sed exqua caule remotius disposito, vaginis totis vel partim minute retrorso-hispidulis, pedunculo supra medium piloso (non glabro) distinguenda.

Rhizoma repens 2–3 mm. latum sympodiale pleuranthum. Culmus primo saltum sub nodos minute retrorso-hispidulus demum glabrescens 2–3 mm. latus ascendens et secundo anno e basi ramosus, rami terminales biennes ita tertio anno perdit, rami laterales simplices indivisi sed ex axillis inferioribus

sequenti anno ramos axillares 1–2 emittit. Nodus valde incrassatus globularis. Folia infima squamata imbricata glaberrima, superiora vaginata basi globulari-inflata apice appendice lanceolata coronata primo retrorso-hispidula vel subglabra demum sæpe glaberrima. Folia vera in apice rami congesta, vagina 72–96 mm. longa primo retrorso-hispidula demum glaberrima ore appendice rotundata vel oblonga margine setis numerosis rigidis radiatim patentibus scabris fimbriata, petioli breves alati, lamina lanceolata 5–19 cm. longa 2–4 cm. lata supra viridis glabra infra glaucescens supra venas et venulas hirtella basi mucronata apice longe attenuata margine spinulosa, adulta albo-marginata pulchra. Scapus caule lateralis nodo omnino foliis vaginantibus instructo glaber. Pedunculus 20–22,2 cm. longus gracilis 1–1,5 mm. latus supra medium pilosus. Spiculæ racemosæ vel paniculatæ 1–2 floræ. Axis et rami inflorescentiæ pilosi. Bracteæ 2 ex spiculis remotæ, inferior minima pubescens vix 0,5 mm. longa, superior setosa pubescens. Gluma viridis, exterior 10 mm. longa fere glabra basi barbulata margine et apice minutissime ciliolata apice cuspidata, interior glabra dorso alte sulcata ventre margine tantum fimbriato-ciliolata apice bifida. Palcæ 3 late ellipticæ longitudine 5-nervatæ apice fimbriato-ciliatæ. Stamina mihi ignota. Styli 3. Stigma jam deciduum mihi ignotum.

NOM. JAP. *Ezo-miyako-sasa*.

HAB. *Yezo*: Prov. Hidaka, in monte Apoi (T. Nakai—type in Herb. Imp. Univ. Tokyo); in collibus Fuyushima (T. Nakai); Shoya (Y. Kudô, no. 408); Fuyushima (Nakanome); Utoma (Nakanome).

DISTRIB. Endemic.

338. *Sasa kozasa* Nakai, sp. nov.

Species *S. apoiense* affinis, sed exqua foliis latioribus, spiculis paniculatis pleuranthis dignoscenda.

Rhizoma repens sympodiale ramosum 3–4 mm. latum teres. Culmus 30–40 cm. altus 2–3 mm. latus viridis primo saltem sub nodos minute retrorso-hispidulus, nodus incrassatus. Vagina foliorum primo minute retrorso-hispidula demum fere glabrescens. Folia in apice culmi 4–6 oblongo-lanceolata vel lanceolato-oblonga vel inferiora ovato-lanceolata 6,5–21 cm. longa 2–6 cm. lata, basi rotundata vel subtruncata in petiolem 2–4 mm. longum mucronata apice attenuata, margine spinuloso-serrulata subtus

molliter erecto-hirtella supra glabra, æstate provectiore distincte albo-marginata. Scapus ex parte basale culmi evolutus folia superans 50–60 cm. altus glaber vaginis glabris. Panicula 8–12 cm. longa, pedunculo et axi piloso. Spiculæ virides 3–8 floræ laxæ. Glumæ exteriores 6–9 mm. longæ præter basin pilosæ acutæ, interiores 5–7 mm. longæ virides dorso sulcatæ apice bifidæ pilosæ.

NOM. JAP. *Kozasa*.

HAB. *Yezo*: Prov. Kushiro: secus lacum Kutcharo (K. Miyabe—typus in Herb. Imp. Univ. Hokkaido), circa urbem Kushiro (K. Ogawa); oppido Shiranuka (K. Ogawa). Prov. Nemuro: Hanasaki (Y. Kudô); Shibetsu (Y. Kudô); circa urbem Nemuro (M. Tatewaki).

DISTRIB. Endemic.

Sasa Sect. **Lasioderma** Nakai, sect. nov.

Culmus et vaginæ foliorum dense hispidito-tomentosi. Nodi paulo incrassati. Species binæ huc pertinent; alia *Sasa Kagamiana* in Hondo bor., alia *Sasa lasioclada* in Yezo indigena.

339. Sasa lasioclada Makino & Nakai, sp. nov.

Affinis *Sasa Kagamiana*, sed caule brevius hispidulo, foliis infra pilosis exqua distinguenda.

Rhizoma nostris ignotum. Culmus erectus purpurascens primo dense hispidulo-pubescens sed demum præter apicem glabrescens. Nodus crassiusculus glaber. Vagina foliorum densissime patentim hispidito-tomentosa. Setæ orales palmatim patentem rigidæ scabræ. Folia in apice rami 3 vel 4; petioli 5–7 mm. longi ventre plani glabri dorso elevati hispiduli. Lamina foliorum lanceolata apice longe attenuata basi rotundata in petiolem alato-mucronata 13,4–23,5 cm. longa 3–4,8 cm. lata supra secus venas primarias parcissime hispidula, infra glaucina supra venas erecto-hispidula, margine aciculato-ciliata. Flores nostris ignoti.

NOM. JAP. *Chitose-sasa*.

HAB. *Yezo*: secus rivulum Chitose prov. Iburi (M. Tatewaki—typus in Herb. Imp. Univ. Hokkaidô).

DISTRIB. Endemic.

Sasa Sect. **Phyllaxis** Nakai, sect. nov.

Vaginæ scapi superiores 3–4 folia vera agent. Nodi culmorum leviter incrassati. Species duæ in Yezo endemicæ.

- | | | |
|---|---|--------------------------|
| { | Folia præter marginem hispidulam glaberrima, utrinque viridia | |
| | | <i>S. Niijimai</i> |
| | Folia infra erecto-hirtella glaucina. | <i>S. Miyabei</i> |

340. Sasa Niijimai Tatewaki, in sched. Herb. Hokkaido Imp. Univ.

Rhizoma repens circ. 5 mm. latum. Culmus glaber viridis sub nodos albo-furfuraceus. Nodus leviter incrassatus. Vagina foliorum glabra inferiora aphylla. Folia in apice rami sterilis 4 subsessilia. Lamina foliorum viridis lanceolata 10,3–14,4 cm. longa 2–2,7 cm. lata basi mucronato-contracta apice longissime attenuata utrinque viridis glaberrima margine minute hispidula. Setæ orales ignotæ. Scapi laterales e basi culmi triennis evoluti vaginis glabris superioribus 3 vel 4 apice foliis ovatis vel oblongis vel oblongo-lanceolatis 3,7–9,2 cm. longis 1,5–2,4 cm. latis terminantibus. Spiculæ 4–12 floræ paniculatæ laxæ erectæ. Panicula 14–15 cm. longa. Rami et axis inflorescentiæ pilosi. Glumæ exteriores 5–7 mm. longæ ciliolatæ, interiores 4,5–5 cm. longæ dorso sulcatæ pilosæ. Paleæ 3 oblongæ membranaceæ circ. 1 mm. longæ margine ciliatæ. Stamina 6. Antheræ purpurascens 3,5 mm. longæ. Styli trifidi ramis plumosis.

NOM. JAP. *Rubeshibe-zasa*.

HAB. *Yezo*: Panke-Rubeshibe in Teshio Experiment Forest of Hokkaidô Imperial University (M. Tatewaki, no. 17041'—typus in Herb. Imp. Univ. Hokkaidô).

DISTRIB. Endemic.

341. Sasa Miyabei Nakai, sp. nov.

Tantum scapus mihi notus, sed species perdistincta. Scapus cum inflorescentia racemosa 10,5–14 cm. longa 44–58 cm. longus gracilis. Vagina glaberrima foliis coronata. Folia lanceolata 2,3–9,2 cm. longa 8–14 mm. lata supra viridia glabra infra glaucina hirtella margine dense hispidula basi rotundata vel acutiuscula apice attenuata. Setæ orales radiatim patentes scabræ. Pedunculi, axis ramique inflorescentiæ æque pubescentes. Spiculæ virides 5–7 floræ. Bractea unica minima pubescens. Gluma exterior 7–8

mm. longa 7-nervis tessellata apice bifida. Paleæ 3 minimæ ciliatæ membranaceæ. Styli trifidi plumosi. Caryopsis oblongus castaneus 4–5 mm. longus.

NOM. JAP. *Kushiro-sasa*.

HAB. *Yezo*: secus lacum Kutcharo prov. Kushiro (K. Miyabe—typus in Herb. Imp. Univ. Hokkaidô).

DISTRIB. Endemic.

Sasa Sect. **Eusasa** Nakai, sect. nov.

Arundinaria Sect. *Bambusoides* Shibata & Makino in Tokyo Bot. Mag. XIV. 20 (1900), pro parte.

Sasa Makino & Shibata in Tokyo Bot. Mag. XV. 18 (1901), pro parte.

Rhizoma repens sympodiale pleuranthum. Culmus sterilis 2–4 ennis semel ter rarius quarto ramosus. Vagina glabra vel hispida. Folia subtus glabra vel hirsuta. Scapus culmo vel ramis lateralis axillaris. Pedunculus ex bractea longe exserta. Spiculæ paniculatæ vel reductim racemosæ.

Species 25, quarum 6 in *Yezo* et *Sachalin* spontaneæ.

- | | | |
|-----|--|---|
| 1 { | Culmus 10–30 cm. altus. | 2 |
| 1 { | Culmus 100–400 cm. altus. | 4 |
| 2 { | Folia subtus pilosa vel pubescentia. | <i>S. pilosa</i> |
| 2 { | Folia subtus glaberrima v. parce pilosella. | 3 |
| 3 { | Glumæ 8–10 mm. longæ purpurascentes. | <i>S. Tatewakiana</i> |
| 3 { | Glumæ 5–7 mm. longæ, virides vel parce purpurascentes. | <i>S. sachalinensis</i> |
| 4 { | Folia rami terminalis subtus pubescentia, ramorum lateralium subtus pilosa vel glabra, sæpe basi angustata. | <i>S. rivularis</i> . |
| 4 { | Folia omnia subtus glabra vel pilosa basi vulgo rotundata vel subcordata. | 5 |
| 5 { | Folia subtus pilosa. | <i>S. paniculata</i> |
| 5 { | Folia subtus glabra. | <i>S. paniculata</i> var. <i>ontakensis</i> |
| | Ex clave exclusa. | <i>S. spectabilis</i> |

342. Sasa pilosa Nakai, sp. nov.

S. Tatewakiana affinis sed foliis subtus pilosis vel pubescentibus, inflorescentia laxiore et ampliore exqua differt.

Rhizoma 2–4 mm. latum. Culmus 10–20 cm. altus sympodiale ramosus

glaber. Folia in apice rami 3–5. Vagina glaberrima. Setæ orales patentes scabræ. Petioli 2–5 mm. longi. Lamina foliorum inferiorum ovata, meridionalium lanceolato-oblonga vel oblongo-lanceolata, superiorum lanceolata, omnis chartacea supra luciduscula glabra, subtus supra venas et venulas pilosa vel pubescens 2,2–18 cm. longa 1,2–4,5 cm. lata, margine spinulosa vel infra medium integerrima, basi obtusa, apice subito attenuata. Scapus folia superans usque 77 cm. altus, vaginis appendice parva lanceolata 7–25 mm. longa terminatis. Panicula exerta discreta. Pedunculi glabri. Axis et rami paniculæ pilosi. Gluma exterior 6–9 mm. longa præter marginem glabra viridis vel purpurascens, interior adpresse pilosa. Paleæ 3 minimæ pilosæ. Stamina 6 purpurascentia. Styli trifidi plumosi.

NOM. JAP. *Okuyezo-zasa*.

HAB. *Yezo*: Prov. Kushiro: in monte Meakan (Y. Kudô & Y. Niijima no. 8281, fl.—typus in Herb. Imp. Univ. Tokyo); insula Daikokujima circa Akkeshi (Y. Kudô no. 2842, fl.); Mashuko (K. Miyabe); Biborogoe, Kutcharo (K. Miyabe). Prov. Oshima: in monte Esan (I. Yamamoto). Prov. Ishikari: Sapporo (E. Tokubuchi).

Sachalin: Galkinovlaskoe in littore orientale (T. Miyabe); Chepporo in littore orientale (T. Miyake); in monte Oyakochi (T. Miyake).

DISTRIB. Endemic.

343. *Sasa Tatewakiana* Makino in Journ. Jap. Bot. V. 41 (1928).

NOM. JAP. *Yezo-miyama-zasa*.

HAB. *Yezo*: Tentonosawa in Teshio Experiment Forest of Hokkaidô Imp. Univ. (M. Tatewaki no. 10828—co-type in Herb. Imp. Univ. Hokkaidô).

Sasa Tatewakiana var. **glabrifolia** Makino, l. c. 42.

HAB. *Yezo*. Prov. Teshio: Nupuromapporo (M. Tatewaki no. 10798—co-type in Herb. Imp. Univ. Hokkaidô); Pankenosawa (M. Tatewaki no. 9490); Todomezawa (M. Tatewaki no. 17064 e, h); Osajimagoe (M. Tatewaki); Kokuneppu (Ninoue).

DISTRIB. Endemic.

344. *Sasa sachalinensis* Makino & Nakai, sp. nov.

Arundinaria kurilensis Ruprecht var. *spiculosa* Fr. Schmidt in Mém.

Akad. Imp. Sci. St. Pétersb. 7^e sér. XII, no. 2, 198 (1868).

Sasa paniculata (non Makino & Shibata) Koidzumi in Journ. Coll. Sci. Tokyo XXVII, art 13, 24 (1910)—Miyabe & Miyake, Fl. Saghalin 587 (1915), pro parte.

Rhizoma mihi ignotum. Culmus nanus 20–30 cm. altus glaber sub nodos imprimo farinaceo-furfuraceus, bis—ter ramosus. Vaginæ culmorum et ramorum glaber margine hispidulæ. Folia in apice rami 3–4 lanceolata vel oblongo-lanceolata 7,7–13,4 cm. longa 2–3,4 cm. lata, supra viridia opaca glabra, infra glaucescentia glabra, basi mucronata, apice attenuata, margine spinuloso-scaberula, vagina foliorum glabra ore truncata, setæ orales paucæ rigidæ. Scapi in ramis laterales ramos 2–3 plo superantes cum inflorescentia 45–60 cm. longa, vaginis glabris. Pedunculi in vagina suprema inserti vel paulo exerti sericei. Inflorescentia paniculata ambitu ovoidea circ. 11 cm. longa, axis sericea. Glumæ virides vel apice purpurascens, exteriores 5–6,5 rarius 7 mm. longæ pilosæ apice acuminatæ tessellatæ, interiores 6 mm. longæ dorso sulcatæ apice acutæ pilosæ. Paleæ 3 oblongæ hyalinæ hirtellæ 1,5 mm. longæ. Stamina 6, antheræ 2 mm. longæ 1 mm. latæ flavæ parce purpurascens vel intensius purpurascens. Styli 3-fidi plumosi.

NOM. JAP. *Karafuto-sasa*.

HAB. *Sachalin*: Alexandrovskoe (G. Nakahara—typus in Herb. Imp. Univ. Tokyo); Kusannai (K. Miyabe & T. Miyagi); Dubki (K. Miyabe & T. Miyagi); Mt. Omanbetsu (T. Miyabe); Shiranushi (K. Miyabe & T. Miyagi); Chiishiya (K. Miyabe & T. Miyagi); Mt. Shiretoko, Jûzôzan (T. Miyake).

Kuriles: Kunashiri, Mt. Rausu (M. Tatewaki no. 3284).

Yezo: Prov. Kitami: Oshonnai—Koanama insulæ Rebun (Y. Kudô no. 1517).

DISTRIB. Endemic.

345. *Sasa rivularis* Nakai, sp. nov.

Rhizoma longe repens ramosum sympodiale pleuranthum. Culmus 1–3 metralis altus semel vel bis ramosus 4–8 mm. latus. Nodus incrassatus. Internodi elongati 17–20 cm. longi vaginis glabris longiores. Vaginæ ore laterali carunculatæ exquibus setæ rigidæ scabræ 5–11 mm. longæ radiatæ. Petioli 4–5 mm. longi alati. Folia lanceolata 14–25 cm. longa 3–6,5 cm.

lata, supra glabra opaca viridia, infra in ramis terminalibus et subterminalibus pubescentia vel hirtella sed in ramis inferioribus pilosella vel glabra, margine spinulosa, basi mucronata apice attenuata. Scapus culmo lateralis cum inflorescentia paniculata 14–18 cm. longa 45–60 cm. longa. Pedunculus 2 mm. latus pilosus. Spiculæ laxifloræ 4–5 floræ cum bracteis binis suffultæ. Bracteæ inferiores minimæ interdum obsoletæ pilosæ, superiores 1–2 mm. longæ lanceolatae pilosellæ. Glumæ virides, exteriores 6–7 mm. longæ tessellatæ margine pilosæ dorso infra medium glabra supra medium minute scabræ, interiores 7 mm. longæ apice bifidæ dorso sulcatæ pilosæ. Paleæ 3 obsoletæ membranaceæ pilosæ. Stamina 6. Antheræ purpurascentes 5 mm. longæ. Styli 3 plumosi.

NOM. JAP. *Sôun-zasa*.

HAB. *Yezo*: Prov. Ishikari: secus flumen Ishikari circa Sôunkyô (T. Nakai—typus in Herb. Imp. Univ. Tokyo); Soranuma (K. Miyabe); Nopporo (Y. Kudô no. 1036). Prov. Iburi: in paludosis Shizukari (K. Miyabe, Kudô & Tatewaki no. 8326).

Sachalin: inter Hinan-eki & Aoba-eki (Y. Kudô & M. Tatewaki no. 6164).

346. *Sasa spectabilis* Makino & Nakai, sp. nov.

Solum inflorescentia nostris nota sed species distinctissima!

Scapi robusti vaginis elongatis glabris amplis apice lanceolato-appendiculatis imbricatim obtecti. Panicula paulo exerta elongata usque 30 cm. longa ramis gracilibus axique pubescentibus. Spiculæ discretæ 6–9 floræ insuper glumis sterilibus 3–4 terminantes. Bracteæ vix 1 mm. longæ binæ pilosæ. Glumæ exteriores 6–8 mm. longæ virides purpureo-marginatæ ubi sericeæ; interiores dorso sulcatæ 5–8 mm. longæ pilosæ. Paleæ 3 membranaceæ ovatae vix 1 mm. longæ. Stamina 6 flavæ. Styli trifidi ramis plumosis.

NOM. JAP. *Hana-zasa*.

HAB. *Yezo*: Prov. Teshio: Toikanbetsu-Nupukanai in Experiment Forest of Hokkaidô (M. Tatewaki—typus in Herb. Imp. Univ. Hokkaidô).

DISTRIB. Endemic.

347. *Sasa paniculata* Makino & Shibata in Tokyo Bot. Mag. XV, 25 (1901), nom. tantum.

var. **paniculata** Nakai, comb. nov.

Arundinaria kurilensis var. γ . *paniculata* Fr. Schmidt in Mém. Acad. Imp. Sci. St. Pétersb. 7 sér. XII. no. 2, 198 (Fl. Sachal.) (1868).

Sasa paniculata (non Makino & Shibata) Matsumura, Ind. Pl. Jap. II, 1: 96 (1905), pro parte; Miyabe & Miyake, Fl. Saghalin, 587 (1915), pro parte; Makino & Nemoto, Fl. Jap. 1495 (1925), pro parte; Makino, in Journ. Jap. Bot. V. 4 (1928), pro parte.

Sasa senanensis (non Rehder) Nakai in Journ. Arnold Arb. VI. 150 (1925), pro parte.

Rhizoma repens ramosum sympodiale pleuranthum. Culmus ascendens 2–3 metralis altus, rarius reductim 1 metralis semel bis ter ramosus glaber-rimus lucidus sub nodus farinaceo-furfuraceus 4–13 mm. latus. Nodus plus minus incrassatus. Vaginæ culmorum glabræ appendice lanceolata coronatæ. Folia in apice ramulorum 3–5 lanceolata vel lanceolato-oblonga 11–25 cm. longa 2,5–7,0 cm. lata supra viridia opaca infra glaucescentia supra nervos adpresse pilosella. Vaginæ foliorum glaberrimæ; setæ orales rigidæ caducæ sæpe haud evolutæ, ligula 1,5 mm. longa dorso adpresse spinulosa. Scapi culmo laterales axillares culmos superantes aphylli hirtelli cum vaginis elongatis glaberrimus. Inflorescentia laxè paniculata ampla 12–20 cm. longa 9–17 cm. lata, axis sericea. Spiculæ laxifloræ 4–7 floræ 2,5–4 cm. longæ, bracteis binis distantibus suffultæ. Bracteæ villosæ 1–3 mm. longæ. Glumæ exteriores 7–9 mm. longæ purpurascenti-virides acutæ vel acuminatæ margine pilosæ dorso sub lente minutissime ciliolatæ nervis tessellatis, interiores 7–8 mm. longæ pilosæ apice bifidæ. Paleæ 3 obovatæ hyalinæ margine pilosæ 1,5 mm. longæ. Stamina 6, antheræ atro-purpureæ vel purpurascentes. Styli 3 plumosi.

NOM. JAP. *Nemagaridake*.

HAB. *Sachalin*: Mt. Ochopoka (T. Miyake); Chiishiya (K. Miyabe & T. Miyagi).

Yezo: Prov. Ishikari: Nopporo (Y. Kudô no. 1035); Mt. Moiwa (Y. Tokunaga); Kamuikotan (Y. Kudô); ibidem (K. Miyabe & G. Yamada). Prov. Teshio: Wassamu (Y. Kudô no. 4607); Otoikofu in Experiment Forest (M. Tatewaki no. 17009). Prov. Iburi: Mororan (Y. Kudô no. 3884). Prov. Shiribeshi: Shikuzushi (G. Yamada). Prov. Oshima: Ichino-watari (K. Miyabe & Y. Takubuchi). Prov. Kitami: Isl. Riishiri (Y. Kudô

no. 1920).

Honshu: Prov. Iwashiro: Mt. Naka-Adzumasán (G. Koidzumi). Prov. Shinano: Mt. Togakushi (J. Matsumura).

Sasa paniculata var. **ontakensis** Camus, Monogr. Bamb. 24 (1913).

Bambusa senanensis var. β . *ontakensis* Franchet & Savatier, Enum. Pl. Jap. II. 606 (1879).

Arundinaria kurilensis var. *speciosa* Bean in Gard. Chron. 3 ser. XV. 302 (1894).

Bambusa senanensis (non Franchet & Savatier) Hackel in Bull. Herb. Boiss. VII. 719 (1899).

Bambusa paniculata (non Willdenow) Makino in Tokyo Bot. Mag. XIV. (62) (March 1900), nom nud.

Arundinaria paniculata Makino in Tokyo Bot. Mag. XIV. 50 (April 1900), pro parte, excl. syn.

Sasa paniculata Makino & Shibata in Tokyo Bot. Mag. XV. 25 (1901), pro parte, excl. syn.; Matsumura, Ind. Pl. Jap. II. 1: 96 (1905), pro parte, excl. syn.; Miyabe & Miyake, Fl. Saghalin, 587 (1915), pro parte; Makino & Nemoto, Fl. Jap. 1495 (1925), pro parte, excl. syn.; Makino in Journ. Jap. Bot. V. 4 (1928), pro parte, excl. syn. *Arundinaria* & *Bambusa*.

Bambusa stenantha Makino in Tokyo Bot. Mag. XIV. (62) (1900), (1900), nom. nud.

Arundinaria paniculata var. *stenantha* Makino in Tokyo Bot. Mag. XIV. 52 (1900).

Sasa paniculata var. *stenantha* Makino & Shibata in Tokyo Bot. Mag. XV. 62 (1901); Matsumura, Ind. Pl. Jap. II. 1: 97 (1905); Makino & Nemoto, Fl. Jap. 1496 (1925).

Sasa senanensis Rehder in Journ. Arnold Arb. I, 58 (1919), pro parte, excl. syn.; Nakai in Journ. Arnold Arb. VI. 150 (1925), pro parte.

Sasa senanensis var. *stenantha* Rehder, l. c. 59.

Folia subtus ab initio glaberrima.

NOM. JAP. *Me-kumai-zasa* vel *Nemagaridake*.

HAB. *Sachalin*: Osaka (T. Miyake).

Yezo: Prov. Ishikari: Mt. Teine (Y. Kudô no. 189); Mt. Daisetsuzan (T. Nakai); Maruyama (Y. Kudô no. 4163); Mt. Moiwa (Y. Kudô no.

4765); Ibidem (T. Nakai). Prov. Teshio: Panke-Rubeshibe in Teshio Experiment Forest (M. Tatewaki no. 10741"). Prov. Shiribeshi: Zenibako (Y. Tokubuchi).

Honshu: Prov. Mutsu: Aomori (R. Yatabe, one type of *Sasa paniculata*). Prov. Uzen: Rokujûrigoe (R. Yatabe & S. Ôkubo, one type of *S. paniculata*). Prov. Echigo: Shimidzutôge (R. Yatabe). Prov. Shimotuke: Mt. Shiranesan (J. Matsumura, one type of *S. paniculata*); ibidem (S. Hattori); Yumoto, Nikko (T. Nakai). Prov. Kaga: Mt. Hakusan (R. Yatabe & J. Matsumura, one type of *S. paniculata*).

Sasa paniculata var. *ontakensis* f. **nebulosa** Makino & Shibata in Tokyo Bot. Mag. XV. 27 (1901); Makino & Nemoto, Fl. Jap. 1496 (1925).

Bambusa palmata f. *nebulosa* Makino in Tokyo Bot. Mag. XIV. (61) (1900).

Arundinaria paniculata f. *nebulosa* Makino, l. c. 50.

Sasa paniculata var. *nebulosa* Camus, Monogr. Bamb. 24 (1913).

Sasa senanensis f. *nebulosa* Rehder in Journ. Arnold Arb. I. 58 (1919).

Culmus ut *Phyllostachys nigra* punctis nigris vel annulis nigris delineatus.

NOM. JAP. *Shakotan-chiku*.

HAB. *Yezo*: sine loco speciali (L. Boehmer); Shakotan prov. Shiribeshi (R. Yatabe).

The name *Sasa senanensis* Rehder derived from *Bambusa senanensis* Franch. & Sav. can not be applied to this species, because the latter is identical with one type of *Sasa nana* Makino. *Sasa nana* Makino or *Arundinaria nana* Hackel implies three distinct species. One from Mt. Ontake in the Province of Shinano is *Bambusa senanensis*, so, the name *Sasa senanensis* Rehder should be retained to this. The second from the alpine regions of Nikkô has hispidulous nodes of the culms as *Sasa hidaensis*, *S. palmata*, *S. bitchuensis*, and *S. sendaica*, but is much smaller as *Sasa sachalinensis*. I would like to retain the name of *Sasa nana* to this species. The third from Mt. Tateyama in the Province of Etchû has the inflorescence like that of *Sasa paniculata*, but the sheath is much more purple, and the leaves are shorter and broader. I shall call it as ***Sasa brachyphylla*** Nakai.

CYPERACEÆ

Cyperus L.

348. **Cyperus difformis** L. Sp. Pl. ed. 2, 61; Kunth, Enum. Pl. II. 38; Ledeb. Fl. Ross. IV. 242; Maxim. Prim. Fl. Amur. 297; Rgl. Tent. Fl. Ussuri. 159; Miq. Prol. Fl. Jap. 73; Fr. et Sav. Enum. Pl. Jap. II. 104; Hook. f. Fl. Brit. Ind. VI. 599; Forb. et Hemsl. Ind. Fl. Sin. III. 210; Kom. Fl. Mansh. I. 331; Matsum. Ind. Pl. Jap. II. 1: 140; Nakai, Fl. Korea. II. 286, et in Tokyo Bot. Mag. XXVI. 190; Miyabe & Kudo, Mater. Fl. Hokkaido, n. 106, in Trans. Sapporo Nat. Hist. Soc. VII. 26.

Cyperus Goeringii Steud. Syn. II. 24.

NOM. JAP. *Tamagayatsuri*.

HAB. *Yezo*. Shiribeshi, Ishikari.

DISTRIB. *Yezo*, Honshu, Kyushu, Formosa, Korea, and widely distributed throughout the tropical and temperate regions of Asia, Europe and Africa.

349. **Cyperus truncatus** Turcz. Cat. Baic. Dah. n. 1206, et Fl. Dah. Baic. II. 245; Ledeb. Fl. Ross. IV. 241; Maxim. Prim. Fl. Amur. 297; Steud. Syn. II. 25; Fr. et Sav. Enum. Pl. Jap. II. 105; Korsh. Pl. Amur. 405; Kom. Fl. Mansh. I. 329; Forb. et Hemsl. Ind. Fl. Sin. III. 218; Matsum. Ind. Pl. Jap. II, 1: 153; Nakai, Fl. Korea. II. 289 et in Tokyo Bot. Mag. XXVI. 192.

var. **robustus** Nakai, in Tokyo Bot. Mag. XL. 146.

NOM. JAP. *Ushikugu*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Ishikari, Tokachi.

DISTRIB. *Yezo*, Honshu, Korea, Manchuria, China, Amur and Dahuria.

Juncellus Griseb.

350. **Juncellus serotinus** C. B. Clarke, in Hook. f. Fl. Brit. Ind. VI. 594; Forb. et Hemsl. Ind. Fl. Sin. III. 208; Matsum. Ind. Pl. Jap. II. 1: 154; Nakai, Fl. Korea. II. 286 et in Tokyo Bot. Mag. XXVI. 199; Miyabe & Kudo, Mater. Fl. Hokkaido, n. 107, in Trans. Sapporo Nat. Hist. Soc. VII. 26.

Cyperus serotinus Rottb. Desc. et Ic. Gram. 31; Kunth, Enum. Pl. II. 19; Diels, Fl. C. China, 227; Kom. Fl. Mansh. I. 332; Fr. et Sav. Enum. Pl. Jap. II. 102.

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

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

NOM. JAP. *Mizu-gayatsuri*, *Ushi-gayatsuri*.

HAB. *Yezo*. Shiribeshi, Hidaka, Ishikari.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Formosa, Korea, Manchuria, China, India and Europe.

***Pycneus* Beauv.**

351. *Pycneus sanguinolentus* Nees, in Linnaea. IX. 283; Hook. f. Fl. Brit. Ind. VI. 590; Forb. et Hemsl. Ind. Fl. Sin. III. 206; Matsum. et Hayata, Enum. Pl. Formos. 469; Matsum. Ind. Pl. Jap. II. 1: 158; Nakai, Fl. Korea. II. 285 et in Tokyo Bot. Mag. XXVI. 202; Miyabe & Kudo, Mater. Fl. Hokkaido, n. 108, in Trans. Sapporo Nat. Hist. Soc. VII. 27.

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

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

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

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

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

HAB. *Yezo*. Oshima, Iburi, Ishikari, Tokachi, Kushiro.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Formosa, Korea, Tropical and Temperate Asia, Abyssinia and Australia.

***Kyllingia* Rottb.**

352. *Kyllingia brevifolia* Rottb. Desc. et Ic. 13, t. 4, f. 3; Hook. f. Fl. Brit. Ind. VI. 588; Forb. et Hemsl. Ind. Fl. Sin. III. 223; Diels, Fl. C. China, 228; Palib. Consp. Fl. Korea. III. 20; Matsum. Ind. Pl. Jap. II. 1:

154; Nakai, Fl. Korea. II. 289, et in Tokyo Bot. Mag. XXVI. 205; Hult. Fl. Kamtch. I. 157.

Kyllingia monocephala Thunb. Fl. Jap. 35; Miq. Prol. Fl. Jap. 74; Kom. Fl. Mansh. I. 335, non L.

Kyllingia triceps Thunb. l. c. 35.

Kyllingia gracillima Miq. Prol. Fl. Jap. 74; Fr. et Sav. Enum. Pl. Jap. II. 108.

Kyllingia monocephala L. var. *leiolepis* Fr. et Sav. Enum. Pl. Jap. II. 108.

Kyllingia kamtschatica Meinsh. in Acta Horti Petrop. XVIII. 229; Kom. Fl. Penins. Kamtsch. I. 200.

NOM. JAP. *Hime-kugu*.

HAB. *Yezo*. Oshima, Hidaka, Kushiro.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Liukiu, Formosa, Korea, China, Manchuria, Kamtchatka, India, Ceylon and Malacca.

Eriophorum L.

353. *Eriophorum alpinum* L. Sp. Pl. ed. 1, 53; Kunth, Enum. Pl. II. 176; Ledeb. Fl. Ross. VI. 252; Fr. Schm. Fl. Amg.-Bur. 66; Pax, in Engl. u. Pr. Nat. Pfl.-fam. II. 2: 111; Kom. Fl. Mansh. I. 337; Matsum. Ind. Pl. Jap. II. 1: 147; Koidz. in Tokyo Bot. Mag. XXV. 204; Miyabe et Kudo, Mater. Fl. Hokkaido, no. 10, in Trans. Sapporo Nat. Hist. Soc. V. 66; Hult. Fl. Kamtch. I. 158.

Scirpus Trichophorum Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 321.

Trichophorum alpinum Pers. Syn. I. 70; Hegi, Ill. Fl. Mittel-Europ. II. 23, t. 42, f. 188; Kom. Fl. Penins. Kamtsch. I. 205.

NOM. JAP. *Miyama-sagisuge*, *Hime-watasuge*.

HAB. *Yezo*. Iburi, Ishikari.

DISTRIB. *Yezo*, Honshu, Manchuria, Kamtchatka, Siberia, Europe and North America.

354. *Eriophorum vaginatum* L. Sp. Pl. ed. 1, 52; Kunth, Enum. Pl. II. 176; Bong. Vég. Sitcha, 169; Ledeb. Fl. Ross. IV. 252; Trautv. et Mey. Fl. Ochot. 97; Maxim. Prim. Fl. Amur. 299; Fr. Schm. Fl. Amg.-Burej.

66, et Fl. Sachal. 191; Pax, in Engl. u. Pr. Nat. Pfl.-fam. II. 2: 111; Kurtz, in Engl. Bot. Jahrb. XIX. 477; Britt. & Br. Ill. Fl. I, 272; Meinsh. in Act. Hort. Petrop. XVIII. 269; Kom. Fl. Mansh. I. 336; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 18; Fernald, in Rhodora VII. 84; Koidz. Pl. Sachal. 25; Hegi, Ill. Fl. Mittel-Europ. II. 18; Miyabe & Kudo, Mater. Fl. Hokkaido, n. 11, in Trans. Sapporo Nat. Hist. Soc. V. 66; Miyabe & Miyake, Fl. Saghal. 521; Takeda, Fl. Shikotan, 493 et in Tokyo Bot. Mag. XXXII. (115-6); Simpson, in Jour. Linn. Soc. Bot. XLI. 449; Printz, Veg. Sib. Mong. Front. 174; Kudo, Contr. Fl. N. Saghal. 22, et Rep. Veg. N. Saghal. 63; Hult. Fl. Kamtch. I. 163; Kom. Fl. Penins. Kamtsch. I. 201.

Eriophorum Scheuchzeri C. B. Clarke, in Matsum. Ind. Pl. Jap. II. 1: 147, non Hoppe.

NOM. JAP. *Wata-suge, Suzume-no-keyari, Tateyama-wata.*

HAB. *Yezo.* Oshima, Shiribeshi, Ishikari, Teshio, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Etorofu, Urup, Shumushu.

Southern Saghalien. Odomari, Tomarioro, Toyohara, Shikka.

Northern Saghalien. Alexandrowsk, Tim, Nyiwo, Chaiwo, Prongebai.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Korea, Amur, Ussuri, Ajan, Okhotsk, Kamtchatka, Siberia, Caucasus, Europe and Arctic North America.

355. *Eriophorum Scheuchzeri* Hoppe, Bot. Taschenb. (1800) 104; Kunth, Enum. Pl. II. 177; Ledeb. Fl. Ross. IV. 253; Trautv. et Mey. Fl. Ochot. 98; Hook. f. Fl. Brit. Ind. VI. 664; Kurtz, in Engl. Bot. Jahrb. XXX. 477; Britt. & Br. Ill. Fl. I. 272; Aschers. u. Graebn. Syn. Mitteleurop. II. 2: 332; Fernald, in Rhodora VII. 82; Hegi, Ill. Fl. Mittel-Europ. II. 19; Miyabe & Kudo, Mater. Fl. Hokkaido n. 12, in Trans. Sapporo Nat. Hist. Soc. V. 66; Koidz. in Tokyo Bot. Mag. XXXII. 57; Takeda, ibidem, XXXII. (116); Simpson, in Jour. Linn. Soc. Bot. XLI. 449; Kudo, Contr. Fl. N. Saghal. 22, et Rep. Veg. N. Saghal. 63; Hult. Fl. Kamtch. I. 163; Kom. Fl. Penins. Kamtsch. I. 202.

Eriophorum capitatum Host, Gram. I. 30.

Eriophorum leucocephalum Bckl. in Flora, XLI. 419.

Eriophorum vaginatum Koidz. in Tokyo Bot. Mag. XXV. 204, non L.

NOM. JAP. *Yezo-watasuge*.

HAB. *Yezo*. Ishikari.

Southern Saghalien. Shikka.

Northern Saghalien. Alexandrowsk, Tim, Pronge-Baikal, Oha.

DISTRIB. Saghalien, Yezo, Siberia, Okhotsk, Kamtchatka, Kashmir, Europe and Arctic North America.

356. *Eriophorum strigosum* Miyabe et Kudo, Mater. Fl. Hokkaido, n. 13, in Trans. Sapporo Nat. Hist. Soc. V. 67; Miyabe & Miyake, Fl. Saghal. 522; Makino & Nemoto, Fl. Jap. 1387.—Plate IV.

Rhizome stoloniferous. Culms solitary, slender, 20–60 cm. high, terete, striate, smooth. Radical leaves needle-shaped, glabrous, canaliculate, to 40 cm. long, green above, often more or less light brownish below, gradually acuminate at the apex; cauline leaves 2 or rarely 3, long vaginate, not inflated, blade very short, mostly needle-shaped, vagina purplish at the base, the uppermost vagina 5–6 cm. long. Spike terminal, solitary, many-flowered, erect or more or less curved, ovate or oblong, about 2 cm. long, 1–1.2 cm. broad, scales leadish gray to light blackish in color with a hyaline margin, sterile scales broad ovate, 5–6 mm. long, 2.5–3 mm. wide, 1–3-nerved, fertile scales oblong-lanceolate, 4.5–6 mm. long, 1.5–2 mm. wide, 1-nerved. Anthers not known. Achenes obovoid, trigonous, compressed, rounded at apex, strigose on the ridges, especially in the upper part. Bristles numerous, 9–10 times longer than the seeds, reddish or isabelle colored.

NOM. JAP. *Kitsune-suge*.

HAB. *Southern Saghalien*. Shikka.

DISTRIB. Endemic.

This is a striking species characterized by its strigose achenes. It is most nearly related to *Eriophorum Chamissonis* C. A. Mey. and *E. russeolum* Fries.

357. *Eriophorum gracile* Koch, apud Roth, Catal. II. 259; Kunth, Enum. Pl. II. 175; Ledeb. Fl. Ross. IV. 255; Fr. Schm. Fl. Sachal. 191; Fr. et Sav. Enum. Pl. Jap. II. 115; Korsh. Pl. Amur. 407; Britt. & Br. Ill. Fl. I. 273; Kom. Fl. Mansh. I. 337; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 324; Hegi, Ill. Fl. Mittel-Europ. II. 21; Koidz. Pl. Sachal. 25;

Matsum. Ind. Pl. Jap. II. 1: 147; Nakai, Fl. Korea. II. 298; Miyabe & Kudo, Mater. Fl. Hokkaido, n. 14, in Trans. Sapporo Nat. Hist. Soc. V. 67; Miyabe & Miyake, Fl. Saghal. 522; Takeda, in Tokyo Bot. Mag. XXXVI. (115-116); Simpson, in Jour. Linn. Soc. Bot. XLI. 449; Printz, Veg. Sib. Mong. Front. 1. 175; Kudo, Contr. Fl. N. Saghal. 22, et Rep. Veg. N. Saghal. 64; Kom. Fl. Penins. Kamtsch. I. 203.

NOM. JAP. *Sagi-suge*, *Mayuhakigusa*.

HAB. *Yezo*. Oshima, Iburi, Ishikari, Kushiro, Nemuro.

Kuriles. Kunashiri, Etorofu.

Southern Saghalien. Odomari, Mauka, Toyohara, Shikka.

Northern Saghalien. Alexandrowsk, Tymi.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Korea, Manchuria, Mongolia, China, Siberia, Kamtchatka, Europe and North America.

358. *Eriophorum angustifolium* Roth, Fl. Germ. II. 63; Kunth, Enum. Pl. II. 178; Ledeb. Fl. Ross. IV. 254; Rgl. et Til. Fl. Ajan. 125; Korsh. Pl. Amur. 407; Kom. Fl. Mansh. I. 337; Forb. et Hemsl. Ind. Fl. Sin. III. 255; Yabe et Yendo, in Tokyo Bot. Mag. XVIII. (174); Nakai, Fl. Korea. II. 298; Miyabe et Kudo, Mater. Fl. Hokkaido n. 15, in Trans. Sapporo Nat. Hist. Soc. V. 68; Printz, Veg. Sib. Mong. Front. 174; Hult. Fl. Kamtsch. I. 159.

Eriophorum polystachyon L. Sp. Pl. ed. 1, 52, p.p.; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 333; Fernald, in Rhodora, VII. 88; Hegi, Ill. Fl. Mittel-Europ. II. 20; Koidz. in Tokyo Bot. Mag. XXV. 204; Kom. Fl. Penins. Kamtsch. I. 204.

NOM. JAP. *Shumushu-watasuge*.

HAB. *Kuriles*. Harumu-kotan, Paramushir, Shumushu.

var. **majus** Schultz, Fl. Starg. Suppl. 5, cf. Wallr. Ann. Bot. (1815) 13; Kudo, Fl. Paramushir, 76.

Eriophorum polystachyon L. subsp. II. *majus* Aschers. et Graebn. l. c. 334.

NOM. JAP. *O-Shumushu-watasuge*.

HAB. *Kuriles*. Paramushir.

DISTRIB. Kuriles, Kamtchatka, Korea, China, Manchuria, Amur, Siberia, Europe and North America.

Scirpus L.

359. *Scirpus caespitosus* L. Sp. Pl. ed. 1, 48; Kunth, Enum. Pl. II. 159; Ledeb. Fl. Ross. IV. 246; Fr. Schm. Fl. Sachal. 190; Britt. & Br. Ill. Fl. I. 263; Makino, in Tokyo Bot. Mag. X. (313); Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 299; Clarke, in Bull. Acad. Intern. Georg. Bot. XIV. (1904) 201; Matsum. Ind. Pl. Jap. II. 1: 160; Miyabe & Miyake, Fl. Saghal. 518; Robins. & Fern. Gray's Man. Bot. ed. 7, 190; Price & Simpson, in Jour. Linn. Soc. Bot. XLI. 499; Kudo, Fl. Paramushir, 76, Contr. Fl. N. Saghal. 23, et Rep. Veg. N. Saghal. 64; Printz, Veg. Sib. Mong. Front. 172; Hult. Fl. Kamtch. I. 164.

Trichophorum caespitosum Hartm. Handb. 5; Hegi, Ill. Fl. Mittel-Europ. II. 24; Kom. Fl. Penins. Kamtsch. I. 205.

NOM. JAP. *Mineharii*.

HAB. *Yezo*. Ishikari.

Kuriles. Etorofu, Paramushir.

Southern Saghalien. Shikka.

Northern Saghalien. Alexandrowsk, Nyiwo.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Kyushu, Mongolia, Kamchatka, Siberia, Europe and North America.

360. *Scirpus mucronatus* L. Sp. Pl. ed. 1, 50; Kunth, Enum. Pl. III. 161; Ledeb. Fl. Ross. IV. 247; Miq. Prol. Fl. Jap. 75; Hook. f. Fl. Brit. Ind. VI. 657; Forb. et Hemsl. Ind. Fl. Sin. III. 252; Britt. & Brown, Ill. Fl. I. 266; Diels, Fl. C. China, 228; Matsum. Ind. Pl. Jap. II. 1: 165; Matsum. et Hayata, Enum. Pl. Formos. 489; Miyabe & Kudo, Mater. Fl. Hokkaido, n. 109. in Trans. Sapporo Nat. Hist. Soc. VII. 27.

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

NOM. JAP. *Kan-garei*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari.

DISTRIB. Yezo, Honshu, Shikoku, Kyushu, Liukiu, Formosa, Korea, China, India, Madagascar, Europe, N. America and Australia.

361. *Scirpus erectus* Poir. in Lamb. Encycl. VI. 761; Hook. f. Fl. Brit. Ind. VI. 656; Forb. et Hemsl. Ind. Fl. Sin. III. 248 et in Bull. Intern. Geogr. Bot. XIV. 201; Diels, Fl. C. China, 228; Kom. Fl. Mansh. I. 354; Matsum. Ind. Pl. Jap. II. 1: 161; Matsum. et Hayata, Enum. Pl. Formos. 488; Nakai, Fl. Korea. II. 292; Miyabe & Kudo, Mater. Fl. Hokkaido n. 110, in Trans. Sapporo Nat. Hist. Soc. VII. 28.

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

NOM. JAP. *Hotarui*.

HAB. *Yezo*. Oshima, Iburi, Ishikari, Kushiro.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Liukiu, Formosa, Korea, Manchuria, China, Tropical Asia and Australia.

362. *Scirpus triqueter* L. Mant. I, 29; Kunth, Enum. Pl. II. 163; Ledeb. Fl. Ross. IV. 248; Rgl. Tent. Fl. Ussuri. 160; Hook. f. Fl. Brit. Ind. VI. 658; Forb. et Hemsl. Ind. Fl. Sin. III. 255; Makino, in Tokyo Bot. Mag. IX. 434; Kom. Fl. Manch. I. 343; Hegi, Ill. Fl. Mittel-Europ. II. 35; Matsum. Ind. Pl. Jap. II. 1: 164; Matsum. et Hayata, Enum. Pl. Formos. 490; Nakai, Fl. Korea. II. 295.

Scirpus Pollichii Godr. et Gr. var. *coriacea* Fr. et Sav. Enum. Pl. Jap. II. 113.

NOM. JAP. *Sankaku-suge*, *Sankakui*.

HAB. *Yezo*. Oshima, Shiribeshi, Hidaka, Ishikari, Kushiro.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Formosa, Manchuria, China, Ussuri, North India, West Asia, Europe and Africa.

363. *Scirpus Tabernaemontani* Gmel. Fl. Bad. I. 101; Kunth, Enum. Pl. II. 164; Ledeb. Fl. Ross. IV. 248; Maxim. Prim. Fl. Amur. 298; Rgl. Tent. Fl. Ussuri. 160; Fr. Schm. Fl. Sachal. 190; Korsh. Pl. Amur. 407; Makino, in Tokyo Bot. Mag. IX. 434; Kom. Fl. Mansh. I. 342; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 313; Koidz. Pl. Sachal. 27; Hegi, Ill. Fl. Mittel-Europ. II. 30; Miyabe & Miyake, Fl. Saghal. 519; Printz, Veg. Sib. Mong. Front. 171; Kudo, Rep. Veg. N. Saghal. 64; Hult. Fl. Kamtsch. I. 169; Kom. Fl. Penins. Kamtsch. I. 210.

Scirpus lacustris L. β . *Tabernaemontani* Trautv.: Makino, in Tokyo Bot. Mag. VIII. 380; Clarke, in Bull. Intern. Geogr. Bot. XIV. 200; Matsum. Ind. Pl. Jap. II. 1: 162.

Scirpus lacustris L. var. *digynus* Gren. et Godr. Fl. de Fr. III. 372; Fr. et Sav. Enum. Pl. Jap. II. 114.

NOM. JAP. *Futoi, Toi*.

NOM. AINU. *Katungi*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Tokachi, Kushiro, Nemuro.

Kuriles. Kunashiri.

Southern Saghalien. Odomari, Ushoro, Toyohara, Shikka.

Northern Saghalien. Pronge-Baikal, Oha.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Shikoku, Kyushu, Liukiu, Manchuria, Mongolia, Amur, Ussuri, Kamtchatka, Siberia, Caucasus and Europe.

364. *Scirpus maritimus* L. Sp. Pl. ed. 1, 50; Kunth, Enum. Pl. II. 167; Ledeb. Fl. Ross. IV. 249; Maxim. Prim. Fl. Amur. 298; Miq. Prol. Fl. Jap. 75; Rgl. Tent. Fl. Ussuri. 161; Fr. Schm. Fl. Sachal. 190; Fr. et Sav. Enum. Pl. Jap. II. 114; Hook. f. Fl. Brit. Ind. VI. 658; Forb. et Hemsl. Ind. Fl. Sin. III. 251; Kom. Fl. Mansh I. 342; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 324; Matsum. Ind. Pl. Jap. II. 1: 163; Matsum. et Hayata, Enum. Pl. Formos. 489; Hegi, Ill. Fl. Mittel-Europ. II. 33; Nakai, Fl. Korea. II. 294; Miyabe & Miyake, Fl. Saghal. 518; Kudo, Rep. Veg. N. Saghal. 65; Hult. Fl. Kamtch. I. 167; Kom. Fl. Penins. Kamtsch. I. 211.

NOM. JAP. *Ukiyagara*.

HAB. *Yezo*. Iburi, Ishikari.

Northern Saghalien. Alexandrowsk.

var. ***compactus*** G. F. W. Meyer, Chlor. Han. 603; Aschers. u. Graebn. l. c. 325; Hegi, l. c. 34; Koidz. Pl. Sachal. 27; Miyabe & Miyake, l. c. 520; Printz, Veg. Sib. Mong. Front. 170; Hult. l. c. 168.

NOM. JAP. *Yezo-ukiyagara*.

HAB. *Yezo*. Kitami.

Southern Saghalien. Odomari, Toyohara.

DISTRIB. *sp.* Saghalien, Yezo, Honshu, Shikoku, Kyushu, Liukiu, Formosa, Korea, Manchuria, Amur, Ussuri, Siberia, India, Europe, Africa and Australia.

365. *Scirpus planiculmis* Fr. Schm. Fl. Sachal. 190, t. 8, f. 1-7; Miyabe & Miyake, Fl. Saghal. 520.

NOM. JAP. *Hime-ukiyagara, Kita-hotarui*.

Southern Saghalien. Odomari, Rutoka, Toyohara.

DISTRIB. An endemic species.

366. *Scirpus Maximowiczii* C. B. Clarke, in Kew Bull. Add. Ser. 8, (1908) 30; Miyabe & Kudo, Mater. Fl. Hokkaido n. 16, in Trans. Sapporo Nat. Hist. Soc. V. 68; Nakai, Veg. Mt. Apoi, 75.

Eriophorum japonicum Maxim. in Mél. Biol. XII. 558; Kom. Fl. Mansh. I. 339; Matsum. Ind. Pl. Jap. II. 1: 147; Nakai, Fl. Korea. II. 513, et in Tokyo Bot. Mag. XXXIII. 4.

Eriophorum latifolium Kawakami, in Tokyo Bot. Mag. XV. 218, non Hoppe.

NOM. JAP. *Takane-kurosuge, Nambusuge, Chishima-watasuge*.

HAB. *Yezo.* Ishikari, Hidaka.

Kuriles. Etorofu, Urup.

Southern Saghalien. Motodomari.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu and Korea.

367. *Scirpus Eriophorum* Michx. Fl. Bor. Am. I. 33; Boeck. in Engl. Bot. Jahrb. VI. 51; Hook. f. Fl. Brit. Ind. VI, 661; Forb. et Hemsl. Ind. Fl. Sin. III. 249; Robins. & Fern. Gray's Man. Bot. ed. 7, 195; Nakai, Fl. Korea. II. 293, et Veg. Mt. Apoi, 75.

Scirpus cyperinus Kunth var. *Eriophorum* O. Ktze. Rev. Gen. Pl. II. 757; Makino, in Tokyo Bot. Mag. XVIII. 120; Britt. & Br. III. Fl. I. 271; Matsum. Ind. Pl. Jap. II. 1: 160.

NOM. JAP. *Yezo-aburagaya*.

NOM. AINU. *Kamui-shupki*.

HAB. *Yezo.* Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Teshio, Kushiro.

DISTRIB. Yezo, Honshu, Kyushu, Korea, China, Khasia, Assam, Himalaya and North America.

368. *Scirpus radicans* Schkuhr, in Usteri Ann. IV. 48; Kunth, Enum. Pl. II. 171; Ledeb. Fl. Ross. IV. 250; Maxim. Prim. Fl. Amur. 299;

Franch. in Bull. Soc. Bot. France (1879) 87; Kom. Fl. Mansh. I. 240; Forb. et Hemsl. Ind. Fl. Sin. III. 252; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 327; Matsum. Ind. Pl. Jap. II. 1: 164; Nakai, Fl. Korea. II. 294; Hegi, Ill. Fl. Mittel-Europ. II. 32; Miyabe & Miyake, Fl. Saghal. 520; Kudo, Contr. Fl. N. Saghal. 23, et Rep. Veg. N. Saghal. 65.

Scirpus sylvaticus L. α . *typicus* et β . *Maximowiczii* et γ . Rgl. Tent. Fl. Ussuri. 161.

Scirpus sylvaticus Maxim, Prim. Fl. Amur. 299; Fr. Schm. Fl. Sachal. 190; Matsum. Ind. Pl. Jap. II. 1: 164; Nakai, Veg. Mt. Apoi, 76, non L.

NOM. JAP. *Kuro-aburagaya*, *Kenashi-aburagaya*, *Ao-aburagaya*.

HAB. *Yezo*. Shiribeshi, Iburi, Hidaka, Ishikari, Kushiro.

Kuriles. Kunashiri.

Southern Saghalien. Odomari, Toyohara, Ushoro, Shikka.

Northern Saghalien. Tymi.

DISTRIB. Saghalien, Kuriles, *Yezo*, Honshu, Korea, China, Manchuria, Amur, Siberia, Europe and Africa.

Bulbostylis Kunth

369. *Bulbostylis capillaris* Kunth, Enum. Pl. II. 212; Hook. f. Fl. Brit. Ind. VI. 652.

Scirpus capillaris L. Sp. Pl. ed. 1, 49.

Fimbristylis capillaris A. Gray, Man. (1848) 530.

Stenophyllus capillaris Britt. in Bull. Torr. Bot. Club, XXI. 30; Britt. & Br. Ill. Fl. I. 258.

var. **trifida** C. B. Clarke, in Hook. f. Fl. Brit. Ind. VI. 652; Makino, in Tokyo Bot. Mag. IX. (390); Kom. Fl. Mansh. I. 345; Matsum. Ind. Pl. Jap. II. 1: 98.

Isolepis trifida Nees, in Wight Bot. Ind. 108 et in Linnaea IX. 291; Steud. Syn. II. 103; Miq. Prol. Fl. Jap. 75.

Bulbostylis trifida Kunth, Enum. Pl. II. 213.

NOM. JAP. *Ito-hanabitentsuki*.

HAB. *Yezo*. Oshima.

DISTRIB. var. *Yezo*, Honshu, Shikoku, Kyushu, Korea, Manchuria, China, Himalaya and India. *sp. typ.* North America.

Eleocharis R. Brown

370. *Eleocharis acicularis* R. Br. Prodr. 224, in nota; Kunth, Enum. Pl. II. 141; Ledeb. Fl. Ross. IV. 243; Maxim. Prim. Fl. Amur. 298; Rgl. Tent. Fl. Ussuri. 161; Korsh. Pl. Amur. 402; Hook. f. Fl. Brit. Ind. VI. 628; Forb. et Hemsl. Ind. Fl. Sin. III. 225; Kom. Fl. Mansh. I. 350; Diels, Fl. C. China, 228; Matsum. Ind. Pl. Jap. II. 1: 144; Matsum. et Hayata, Enum. Pl. Formos. 480; Hegi, Ill. Fl. Mittel-Europ. II. 41; Nakai, Fl. Korea. II. 296.

Eleocharis acicularis R. et S. Syst. II. 154; Britt. & Br. Ill. Fl. I. 252; Kom. Fl. Penins. Kamtsch. I. 209; Svenson, in Rhodora, XXXI. 184.

Scirpus acicularis L. Sp. Pl. ed. 1, 48; Aschers. u. Graebn. Syn. Mittel-europ. Fl. II. 2: 303; Hult. Fl. Kamtch. I. 164.

var. **typica** Svenson, l. c.

NOM. JAP. *Chishima-matsubai*.

HAB. *Kuriles*. Kunashiri.

var. **longiseta** Svenson, l. c. 189.

NOM. JAP. *Matsubai*.

HAB. *Yezo*. Oshima, Ishikari, Kushiro.

DISTRIB. *Yezo*, Honshu, Kyushu, Liukiu, Korea, Manchuria, Amur. *sp.* Kuriles, Kamtchatka, Siberia, China, India, Europe and North America.

371. *Eleocharis ovata* R. Br. Prodr. 244, in nota; Kunth, Enum. Pl. II. 151; Ledeb. Fl. Ross. IV. 245; Steud. Syn. II. 79; Maxim. Prim. Fl. Amur. 298; Rgl. Tent. Fl. Ussuri. 166; Hook. f. Fl. Brit. Ind. VI. 628; Kom. Fl. Mansh. I. 349; Hegi, Ill. Fl. Mittel-Europ. II. 39.

Scirpus ovatus Roth, Catal. II. 5; Meinsh. in Act. Hort. Petrop. XVIII. 259.

Eleocharis ovata R. et S. Syst. II. 152; Fernald, in Proc. Am. Acad. XXXIV. 494; Svenson, in Rhodora, XXXI. 211.

NOM. JAP. *Maruho-harii*.

HAB. *Yezo*. Teshio.

DISTRIB. *Yezo*, Honshu, Manchuria, Amur, Ussuri, China, Dahuria, India, Europe and North America.

372. *Eleocharis palustris* R. Br. Prodr. Fl. Nepal. 224, in nota; Kunth, Enum. Pl. II. 147; Ledeb. Fl. Ross. IV. 244; Maxim. Prim. Fl. Amur. 298; Rgl. Tent. Fl. Ussuri. 160; Fr. Schm. Fl. Sachal. 190; Korsh. Pl. Amur. 406; Hook. f. Fl. Brit. Ind. VI. 628; Forb. et Hemsl. Ind. Fl. Sin. III. 227; Kom. Fl. Mansh. I. 348; Matsum. Ind. Pl. Jap. II. 1: 146; Koidz. Pl. Sachal. 25; Hegi, Ill. Fl. Mittel-Europ. II. 38; Nakai, Fl. Korea. II. 297; Takeda, Fl. Shikotan, 492; Miyabe & Miyake, Fl. Saghal. 516; Kudo, Fl. Paramushir, 77, Contr. Fl. N. Saghal. 23, et Rep. Veg. N. Saghal. 66.

Scirpus palustris L. Sp. Pl. ed. 1, 47; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 289; Printz, Veg. Sib. Mong. Front. 169; Hult. Fl. Kamtch. I. 168.

Eleocharis palustris R. et S. Syst. II. 151; Britt. & Br. Ill. Fl. I. 251; Kom. Fl. Penins. Kamtsch. I. 206; Fernald & Brack. in Rhodora, XXXI. 59, pl. 181, f. 1-7.

Eleocharis pileata A. Gray, Bot. Jap. 417, p. p.

NOM. JAP. *Numa-harii*.

HAB. *Yezo*. Ishikari, Kitami, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Etorofu, Urup, Paramushir, Shumushu, *Southern Saghalien*. Tomarioro, Shikka.

Northern Saghalien. Tymi, Pronge-Baikal, Oha.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Shikoku, Kyushu, Korea, Manchuria, China, Amur, Siberia, Bengal, Ceylon, Himalaya, Caucasus, Europe, North America and Australia.

373. *Eleocharis mamillata* Lindb. f. in Acta Soc. Faun. Fl. Fenn. XXIII. 7: 7; Fernald & Brackett, in Rhodora, XXXI. 66, pl. 184, f. 27-30.

Scirpus mamillatus Lindb. f. in Acta Soc. Faun. Fl. Fenn. XXIII. 7: 4, 7.

Eleocharis macrostachya Britt. in Small, Fl. SE. U. S. 184, 1327.

NOM. JAP. *O-numaharii*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Kushiro, Nemuro.

Southern Saghalien. Tomarioro, Toyohara, Shikka.

DISTRIB. Saghalien, Yezo, Honshu, Europe and North America.

374. *Eleocharis uniglumis* Schult. Mant. II. 88; Ledeb. Fl. Ross. IV. 245; Steud. Syn. II. 77; Fr. Schm. Fl. Sachal. 190; Korsh. Pl. Amur. 406; Kom. Fl. Mansh. I. 349; Koidz. Pl. Sachal. 26; Miyabe & Miyake, Fl. Saghal. 517; Kudo, Contr. Fl. N. Saghal. 23, et Rep. Veg. N. Saghal. 66; Fern. & Brack. in Rhodora, XXXI. 71, *pl. 184, f. 31*.

Scirpus uniglumis Link, Jahrb. d. Gew. I. 3: 77; Meinsh. in Act. Hort. Petrop. XVIII. 263; Franch. Pl. David. 318; Aschers. u. Graebn. Syn. Mitteleurop. II. 2: 291; Printz, Veg. Sib. Mong. Front. 169.

NOM. JAP. *Hime-numaharii*.

HAB. *Kuriles*. Urup.

Southern Saghalien. Odomari, Mauka, Shikka.

Northern Saghalien. Nyiwo.

DISTRIB. Saghalien, Kuriles, Amur, Manchuria, Caucasus and Europe.

375. *Eleocharis kamtschatica* Kom. Fl. Penins. Kamtsch. I. 207; Fern. & Brack. in Rhodora, XXXI. 75, *pl. 184, f. 32, 33*.

Scirpus kamtschaticus C. A. Meyer, in Mém. Acad. Imp. Sc. St. Pétersb. Div. Sav. I. 198; Hult. Fl. Kamtch. I. 165.

Eleocharis pileata A. Gray, Bot. Jap. 417, p. p.

Scirpus mitratus Fr. et Sav. Enum. Pl. Jap. II. 11, 544.

Eleocharis mitrata Makino, in Tokyo Bot. Mag. VIII. 380.

Scirpus sachalinensis Meinsh. in Acta Hort. Petrop. XVIII. 260.

Eleocharis Savatieri C. B. Clarke, in Bull. Acad. Intern. Géogr. Bot. XIV. 203, Kew. Bull. Add. Ser. VIII. 21 (1908), and Ill. Cyp. *t. 36, f. 15-18*; Matsum. Ind. Pl. Jap. II. 1: 146.

NOM. JAP. *Kuro-harii*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Tokachi, Kushiro.

Kuriles. Kunashiri, Shikotan, Etorofu.

Southern Saghalien. Odomari.

Northern Saghalien. Pronge-Baikal.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Ajan, Okhotsk, Kamtschatka and Unalaska.

376. *Eleocharis afflata* Steud. Syn. Cyp. 76; Makino, in Tokyo Bot.

Mag. (1890) 229; Clarke, in Hook. f. Fl. Brit. Ind. VI. 629, et in Forb. et Hemsl. Ind. Fl. Sinens. III. 226; Matsum. Ind. Pl. Jap. II. 1: 144; Makino & Nemoto, Fl. Jap. 1384.

Eleocharis subprolifera Steud. l. c. 80.

Scirpus afflatus Benth. Fl. Hongk. 394; Fr. et Sav. Enum. Pl. Jap. II. 109.

Scirpus attenuatus Fr. et Sav. Enum. Pl. Jap. II. 110, 543.

NOM. JAP. *Mizuhiki-i, Oh-harii.*

HAB. *Yezo.* Oshima.

DISTRIB. *Yezo, Honshu, Kyushu, China, India and Java.*

377. *Eleocharis japonica* Miq. Prol. Fl. Jap. 74; Kom. Fl. Mansh. I. 351; Matsum. Ind. Pl. Jap. II. 1: 145; Nakai, Fl. Korea. II. 297, et Veg. Mt. Apoi, 75; Kom. Fl. Penins. Kamtsch. I. 209.

Scirpus japonicus Fr. et Sav. Enum. Pl. Jap. II. 109.

Eleocharis afflata Steud. var. *japonica* Clarke, ex Lévl. in Bull. Acad. Intern. Georg. Bot. XIV. 203.

Scirpus japonicus var. *thermalis* Hult. Fl. Kamtch. I. 165, *Pl. 5, f. e.*

NOM. JAP. *Hari-i.*

HAB. *Yezo.* Oshima, Hidaka, Ishikari, Tokachi.

DISTRIB. *Yezo, Honshu, Shikoku, Kyushu, Formosa, Korea, Amur, Manchuria and Kamtchatka.*

378. *Eleocharis margaritacea* (Hult.)

Scirpus (Heleocharis) margaritaceus Hult. Fl. Kamtch. I. 167, *fig. 12.*

NOM. JAP. *Shiromino-harii.*

HAB. *Yezo.* Ishikari.

Kuriles. Etorofu.

DISTRIB. *Yezo, Kuriles and Kamtchatka.*

379. *Eleocharis tetraquetra* Nees, in Wight Contr. 113; Steud. Syn. II. 78; Hook. f. Fl. Brit. Ind. VI. 630; Forb. et Hemsl. Ind. Fl. Sin. III. 228; Kom. Fl. Mansh. I. 351; Diels, Fl. C. China, 229; Palib. Consp. Fl. Korea. II. 297; Nakai, Veg. Mt. Apoi, 75.

Eleocharis erythrochlamys Miq. in Ann. Mus. Bot. Lugd. Bat. III. 300.

Scirpus hakonensis Fr. et Sav. Enum. Pl. Jap. II. 110.

Scirpus Wichurai Fr. et Sav. l. c. II. 544, non Boeckl.

Scirpus Onoei Fr. et Sav. l. c., 111 et 544.

NOM. JAP. *Shikaku-i*.

HAB. *Yezo*. Oshima, Okushiri, Hidaka, Ishikari.

Kuriles. Etorofu.

DISTRIB. *Kuriles*, *Yezo*, Honshu, Shikoku, Kyushu, Korea, Manchuria, China, Himalaya and India.

***Fimbristylis* Vahl**

380. *Fimbristylis annua* Roem. et Schult. Syst. II. 95; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 337.

Fimbristylis diphylla Vahl, Enum. II. 289; Steud. Syn. II. 116; Benth. Fl. Hongk. 392; Hook. f. Fl. Brit. Ind. VI. 639; Forb. et Hemsl. Ind. Fl. Sin. III. 233; Fr. et Sav. Enum. Pl. Jap. II. 118; Diels, Fl. C. China, 229; Matsum. Ind. Pl. Jap. II. 1: 148; Matsum. et Hayata, Enum. Pl. Formos. 483; Nakai, Fl. Korea. II. 291.

var. ***ochotensis*** Hult. Fl. Kamtch. I. 170, *pl. 5, fig. f.*

Scirpus (Fimbristylis) ochotensis Meinsh. in Acta Horti Petrop. XVIII. 3: 248; Kom. Fl. Penins. Kamtsch. I. 212.

NOM. JAP. *Hime-tentsuki*.

HAB. *Yezo*. Kushiro.

DISTRIB. var. *Yezo* and Kamtchatka. *sp.* Honshu, Shikoku, Kyushu, Liukiu, Formosa, Korea, China, India, Caucasus, Asia Minor, Europe, Philippine, Australia, Mauritius, Madagascar and Guinea.

381. *Fimbristylis subbispicata* Nees et Meyen, in Nov. Act. Cur. XIX. Suppl. I. 73; Benth. Fl. Hongk. 291; Hook. f. Fl. Brit. Ind. VI. 634; Forb. et Hemsl. Ind. Fl. Sin. III. 241; Kom. Fl. Mansh. I. 346; Matsum. Ind. Pl. Jap. II. 1: 152; Nakai, Fl. Korea. II. 291, et Veg. Mt. Apoi, 75.

Fimbristylis japonica Sieb. et Zucc. ex Steud. in Zoll. Verg. Ind. II. 62; Miq. Prol. Fl. Jap. 76, 143; Fr. et Sav. Enum. Pl. Jap. II. 117.

Fimbristylis bispicata Nees, in Hook. et Arn. Bot. Beech. Voy. 224.

NOM. JAP. *Yamai*, *Tamai*.

HAB. *Yezo*. Oshima, Iburi, Hidaka.

DISTRIB. Yezo, Honshu, Shikoku, Kyushu, Liukiu, Formosa, Korea, Manchuria, China, Malay and India.

382. *Fimbristylis squarrosa* Vahl, Enum. II. 289; Kunth, Enum. Pl. II. 224; Reichb. Ic. Fl. Germ. VIII. 44, *t.* 735; Boeck. in Linnaea, XXXVII. 10; Steud. Syn. II. 110; Maxim. Prim. Fl. Amur. 301; Benth. Fl. Hongk. 392; Rgl. Tent. Fl. Ussuri. 163; Hook. f. Fl. Brit. Ind. VI. 635; Forb. et Hemsl. Ind. Fl. Sin. III. 244; Matsum. et Hayata, Enum. Pl. Formos. 486; Kom. Fl. Mansh. I. 347; Matsum. Ind. Pl. Jap. II. 1: 152; Nakai, Fl. Korea. II. 290.

NOM. JAP. *Aze-tentsuki*.

HAB. *Yezo*. Oshima.

DISTRIB. Yezo, Honshu, Kyushu, Formosa, Korea, Ussuri, Amur, China, Burma, India, Europe, Africa and Australia.

***Rynchospora* Vahl**

383. *Rynchospora alba* Vahl, Enum. Pl. II. 236; Kunth, Enum. Pl. II. 295; Ledeb. Fl. Ross. IV. 259; Steud. Syn. II. 149; Miq. Prol. Fl. Jap. 77; Fr. et Sav. Enum. Pl. Jap. II. 121; Britt. & Br. Ill. Fl. I. 277; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 344; Makino, in Tokyo Bot. Mag. XXII. (15) et ibidem, XVII. 189, *pl.* VII. *f.* 12, *a-b*; Hegi, Ill. Fl. Mittel-Europ. II. 48; Matsum. Ind. Pl. Jap. II. 1: 158; Takeda, in Tokyo Bot. Mag. XXIV. 175; Hult. Fl. Kamtch. I. 171; Kom. Fl. Penins. Kamtsch. I. 213.

Schoenus albus L. Spec. Pl. ed. 1, 44.

NOM. JAP. *Mikazukigusa*.

HAB. *Yezo*. Oshima, Ishikari, Teshio.

Kuriles. Shikotan, Etorofu.

Southern Saghalien. Toyohara, Shikka.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Shikoku, Kyushu, Kamtchatka, Siberia, Europe and North America.

384. *Rynchospora Umemurae* Makino, in Tokyo Bot. Mag. XVII. 187, *pl.* VII. *f.* 8, *a-b*.

var. **exigua** Takeda, in Tokyo Bot. Mag. XXIV. 174.

NOM. JAP. *Nezumi-no-hanahige*.

HAB. *Yezo*. Ishikari.

DISTRIB. *Yezo* and Honshu.

385. *Rynchospora Miyakeana* Makino, in Tokyo Bot. Mag. XVII. 184, *pl.* 7, *f.* 5, *a-b*; Takeda, ibidem, XXIV. 174.

NOM. JAP. *Kuma-no-hanahige*.

HAB. *Yezo*. Ishikari.

DISTRIB. *Yezo* and Honshu.

386. *Rynchospora Fauriae* Franch. in Bull. Soc. Philom. Paris (1886) 4; Makino, in Tokyo Bot. Mag. XII. (15) et ibidem, XVII. 187, *pl.* VII. *f.* 9; Takeda, in Tokyo Bot. Mag. XXIV. 174; Nakai, Fl. Korea. II. 298.

Rynchospora Franchetiana C. B. Clarke, ex Lévl. in Bull. Acad. Intern. Geogr. Bot. XIV. 197; Matsum. Ind. Pl. Jap. II. 1: 159.

NOM. JAP. *Hime-mikazuki*, *Oh-inunohanahige*.

HAB. *Yezo*. Ishikari, Tokachi.

DISTRIB. *Yezo*, Honshu, Shikoku and Korea.

Cobresia Pers.

— **387. *Cobresia Bellardii*** Degland, in Loisel. Fl. Gall. II. 626; Kük. Cyp.-Car. in Engl. Pfl.-reich. IV. 20: 37, *f.* 8; Makino, in Tokyo Bot. Mag. XXVI. 293; Kudo, Fl. Paramushir, 77; Hult. Fl. Kamtch. I. 171; Kom. Fl. Penins. Kamtsch. I. 213; Honda, Rep. Alpine Plants Mt. Shirouma, 16.

Carex Bellardii All. Pedem. II. 264, *t.* 92, *f.* 2.

Cobresia scirpina Willd. Sp. Pl. IV. 205; Boeck. in Linnaea, XXXIX. 6; C. B. Clarke, in Journ. Linn. Soc. Bot. XX. 377; Meinsh. in Act. Hort. Petrop. XVIII. 275.

Elyna spicata Schrad. Fl. Germ. I. 155; Kunth, Enum. Pl. II. 533; Reichb. Ic. VIII. 2. *t.* CXCI. *f.* 520; Ledeb. Fl. Alt. IV. 235 et Fl. Ross. IV. 262.

Elyna Bellardi K. Koch, in Linnaea, XXI. 616; Britt. & Br. Ill. Fl. I. 284; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 3; Hegi, Ill. Fl. Mitteleurop. II. 49, non Hartm.

Elyna scirpina Pax, in Engl. u. Pr. Nat. Pfl-fam. II. 2: 122, f. 120.

NOM. JAP. *Higehari-suge*.

HAB. *Kuriles*. Paramushir.

DISTRIB. Kuriles, Honshu, Kamtchatka, Siberia, Turkestan, Afghanistan, Caucasus, Europe and North America.

Carex L.

388. *Carex gynocrates* Wormskj. apud Drejer, Rev. Crit. 16; Kük. Cyp.-Car. 79; Fedtsch. Prim. Fl. Sib. fasc. 2. 33; Hult. Fl. Kamtch. I. 172; Kom. Fl. Penins. Kamtsch. I. 223

Carex circinata Kudo, Fl. Paramushir, 77, non C. A. Mey.

NOM. JAP.

HAB. *Kuriles*. Urup, Paramushir.

DISTRIB. Kuriles, Kamtchatka, Ochotsk, Amur, Siberia, Europe and North America.

389. *Carex rupestris* All. Fl. Pedem. II. 264; Kunth, Enum. Pl. II. 426; Boott, Ill. Carex, IV. 158, t. 516, f. 1-5; Britt. & Br. Ill. Fl. I. 338; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 12; Kük. Cyp.-Car. 86; Tatewaki, in Journ. Jap. Bot. V. 37.

NOM. JAP.

HAB. *Southern Saghalien*. Motodomari District, Mt. Tosso. (N. Hiratsuka, S. Iwadare and M. Nagai, 1927).

Northern Saghalien. Chaiwo.

DISTRIB. Saghalien, Manchuria, Dahuria, Siberia, Caucasus, Europe and North America.

390. *Carex hakkodensis* Franch. in Bull. Soc. Philom. Paris, 3 sér. VII. 24 et Carex As.-Or. 204, pl. 3, f. 2; Matsum. Ind. Pl. Jap. II. 1: 113; Kük. Cyp.-Car. 98; Miyabe & Kudo, Mater. Fl. Hokkaido n. 43, in Trans. Sapporo Nat. Hist. Soc. V. 150; Takeda, in Notes R. B. G. Edinbg. Vol. VIII. Num. XXXIX. 230; Kudo, Fl. Paramushir, 78; Makino & Nemoto, Fl. Jap. 1344; Hult. Fl. Kamtch. I. 173; Kom. Fl. Penins. Kamtsch. I. 223.

NOM. JAP. *Ito-kinsuge*.

HAB. *Yezo.* Shiribeshi, Ishikari, Tokachi.

Kuriles. Etorofu, Ketoi, Paramushir.

DISTRIB. Kuriles, Yezo, Honshu and Kamtchatka.

391. *Carex rhizopoda* Maxim. in Mél. Biol. XII. 561; Matsum. Ind. Pl. Jap. II. 1: 131; Kük. Cyp.-Car. 98; Makino & Nemoto, Fl. Jap. 1365.

NOM. JAP. *Mugi-suge, Shirako-suge.*

HAB. *Yezo.* Oshima, Shiribeshi, Iburi, Hidaka, Ishikari.

Kuriles. Urup.

DISTRIB. Kuriles, Yezo, Honshu, Shikoku and Kyushu.

form. **longior** Kük. l. c.

Carex rhizopoda Maxim. var. *longior* Maxim. l. c. 562.

HAB. *Yezo.* Iburi.

DISTRIB. Yezo, Honshu and Shikoku.

392. *Carex hakonensis* Fr. et Sav. Enum. Pl. Jap. II. 123, 550; Franch. Car. As.-Or. 199, t. 2, f. 3; Matsum. Ind. Pl. Jap. II. 1: 113; Ohwi, in Mem. Coll. Sci. Kyoto Imp. Univ. Ser. B. V. 3: 285.

Carex Krameri Fr. et Sav. Enum. Pl. Jap. II. 124, 550; Franch. Car. As.-Or. 200, t. 2, f. 4.

Carex heleochariformis Lévl. et Vnt. in Bull. Soc. Géogr. Bot. X. 53 et in Bull. Soc. Bot. France, LI. 202.

Carex Onoei var. *Kramerii* Kük. Cyp. Car. 101; Matsum. Ind. Pl. Jap. II. 1: 124; Mak. & Nem. Fl. Jap. 1358.

NOM. JAP. *Kohari-suge.*

HAB. *Yezo.* Shiribeshi, Iburi, Hidaka, Ishikari.

DISTRIB. Yezo, Honshu and Kyushu.

var. **Onoei** Ohwi, l. c. 285.

Carex Onoei Fr. et Sav. Enum. Pl. Jap. II. 551; Franch. Car. As.-Or. 200, t. 2, f. 5; Kük. Cyp.-Car. 101; Matsum. Ind. Pl. Jap. II. 1: 124; Nakai, Fl. Korea. II. 302; Mak. & Nem. Fl. Jap. 1358.

Carex capituliformis Meinsh. ex Maxim. in Mél. Biol. XII. 563, et in Act. Hort. Petrop. XVIII. 310; Kom. Fl. Mansh. I. 354.

NOM. JAP. *Hari-suge.*

HAB. *Yezo*. Oshima, Iburi, Kushiro, Nemuro.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Korea, Manchuria, Amur and Ussuri.

393. *Carex rara* Boott, in Proc. Linn. Soc. I. 284, et Ill. I. 44, *t.* 109; Hook. f. Fl. Brit. Ind. VI. 713; Kük. Cyp.-Car. 102; Gibes, in Journ. Linn. Soc. Bot. XLII. 182.

subsp. ***capillacea*** Boott, Ill. I. 44, *t.* 110; Franch. Car. As.-Or. 197; Hook. f. l. c.; Kom. Fl. Manch. I. 353; Forb. et Hemsl. Ind. Fl. Sin. III. 278; Kük. l. c.; Nakai, Fl. Korea. II. 302; Miyabe & Miyake, Fl. Saghal. 529; Mak. & Nem. Fl. Jap. 1364.

Carex uda var. *sachalinensis* Fr. Schm. Fl. Sachal. 191, p. p.; Makino, in Tokyo Bot. Mag. IX. 72.

Carex ontakensis Fr. et Sav. Enum. Pl. Jap. II. 123, 550.

NOM. JAP. *Yebo-matsubasuge*, *Harigane-suge*.

HAB. *Yezo*. Oshima, Ishikari, Kushiro.

Southern Saghalien. Tomarioro.

DISTRIB. Saghalien, *Yezo*, Honshu, Korea, Manchuria, China, Himalaya and Australia.

forma ***macrolepis*** Franch. in Nouv. Arch. Mus. Paris. 3 sér. VIII. 198; Matsum. l. c. 130; Kük. l. c. 103.

HAB. *Yezo*. Oshima.

DISTRIB. *Yezo* and Honshu.

var. ***nana*** Kük. Cyp.-Car. 103; Matsum. Ind. Pl. Jap. II. 1: 130; Takeda, Fl. Shikotan, 493; Miyabe & Miyake, Fl. Saghal. 529; Mak. & Nem. Fl. Jap. 1364.

Carex nana Boott, in Mem. Am. Acad. VI. 4: 418, et Ill. IV. 139, *t.* 449, *f.* 2; Fr. et Sav. Enum. Pl. Jap. II. 123.

Carex uda var. *sachalinensis* Fr. Schm. Fl. Sachal. 191, p. p.

Carex aomorensis Franch. Car. As.-Or. 198; Matsum. Ind. Pl. Jap. II. 1: 99.

NOM. JAP. *Harigane-suge*, *Michinoku-harisuge*, *Aomori-harisuge*.

HAB. *Yezo*. Iburi, Ishikari, Tokachi, Kushiro.

Southern Saghalien. Mauka, Tomarioro.

DISTRIB. Saghalien, Yezo, Honshu and Kyushu.

394. *Carex uda* Maxim. Prim. Fl. Amur. 303; Boott, Ill. IV. 139, *t.* 449, *f.* 1; Franch. Car. As.-Or. 210; Korsh. Pl. Amur. 407; Kom. Fl. Mansh. I. 353; Kük. Cyp.-Car. 103; Nakai, Fl. Korea. II. 303.

NOM. JAP. *Ohari-suge*.

HAB. *Yezo*. Oshima, Iburi, Ishikari, Tokachi, Kushiro, Nemuro.

DISTRIB. Yezo, Korea, Manchuria, Amur and Ussuri.

395. *Carex pyrenaica* Wahlenb. in Vet. Akad. Handl. Stockholm, XXIV. 139; Kunth, Enum. Pl. II. 425; Boott, Ill. IV. 148, *t.* 479; Franch. Car. As.-Or. 205; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. X. 55; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 17; Kük. Cyp.-Car. 104; Kudo, Fl. Paramushir, 78; Hult. Fl. Kamtch. I. 174; Kom. Fl. Penins. Kamtsch. I. 224.

NOM. JAP. *Kin-suge*.

HAB. *Yezo*. Shiribeshi, Ishikari.

Kuriles. Paramushir.

DISTRIB. Kuriles, Yezo, Honshu, Kamtchatka, Bering, Asia Minor, Caucasus, Europe, North America and New Zealand.

var. **altior** Kük. l. c. 106; Mak. & Nem. Fl. Jap. 1363; Nakai, Veg. Daisetsusan Mts. 59.

NOM. JAP. *Okinsuge*, *Seitaka-kinsuge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Tokachi.

DISTRIB. Yezo and Honshu.

396. *Carex pauciflora* Lightf. Fl. Scot. II. 543, *t.* 6, *f.* 2; Kunth, Enum. Pl. II. 424; Willd. Sp. Pl. IV. 211; Bong. Vég. Sitcha, 168; Ledeb. Fl. Ross. IV. 268; Boott, Ill. IV. 196; Boeck. in Linnaea, XXXIX. 31; Fr. Schm. Fl. Sachal. 191; Britt. & Br. Ill. Fl. I. 292; Meinsh. in Act. Hort. Petrop. XVIII. 309; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 15; Kük. Cyp.-Car. 110; Hegi, Ill. Fl. Mittel-Europ. II. 57, *t.* 45, *f.* 3; Miyabe & Miyake, Fl. Saghal. 530; Koidz. in Matsum. Icon. Koishikav. III. 9, *pl.* 150; Printz, Veg. Sib. Mong. Front. 143; Kudo, Rep. Veg. N. Saghal. 66; Hult. Fl. Kamtch. I. 175; Kom. Fl. Penins. Kamtsch. I. 224.

Carex microglochis Miyabe, Fl. Kuril. 267; Kudo, Fl. Paramushir, 78, non Wahlenb.

NOM. JAP. *Migaeri-suge*, *Takane-harisuge*.

HAB. *Yezo*. Oshima, Ishikari, Kitami.

Kuriles. Kunashiri, Urup, Paramushir.

Southern Saghalien. Toyohara, Shikka.

Northern Saghalien. Alexandrowsk.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Kamtchatka, Siberia, Asia Minor, Europe and North America.

397. *Carex arenicola* Fr. Schm. Fl. Sachal. 191, *t. VI. f. 18-24*; Franch. Car. As.-Or. 221; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. X. 107; Forb. et Hemsl. Ind. Fl. Sin. III. 272; Matsum. Ind. Pl. Jap. II. 1: 99; Kük. Cyp.-Car. 118, et *Carex* Sachal. 35; Nakai, Fl. Korea. II. 303; Miyabe & Miyake, Fl. Saghal. 530; Mak. & Nem. Fl. Jap. 1330.

Carex curaica Fr. et Sav. Enum. Pl. Jap. II. 124, non Kunth.

Carex chaetorrhiza Fr. et Sav. l. c. 522.

NOM. JAP. *Kuro-kawazu-suge*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Kushiro, Nemuro.

Kuriles. Etorofu.

Southern Saghalien. Odomari, Toyohara.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Korea and China.

398. *Carex pseudo-curaica* Fr. Schm. Fl. Amg.-Burej. 67, et Fl. Sachal. 192, *t. V, f. 8-14*; Franch. Car. As.-Or. 220; Kom. Fl. Mansh. I. 359; Matsum. Ind. Pl. Jap. II. 1: 128; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. X. 107; Kük. Cyp.-Car. 128, et Car. Sachal. 35; Miyabe & Miyake, Fl. Saghal. 531; Mak. & Nem. Fl. Jap. 1362.

Carex curaica Maxim. Prim. Fl. Amur. 304, non Kunth.

Carex chordorrhiza L. var. β . Boott, Ill. IV. 204.

NOM. JAP. *Tsuru-suge*, *Tsuru-kawazusuge*.

HAB. *Yezo*. Oshima, Iburi, Ishikari, Kitami, Rebun, Tokachi, Kushiro, Nemuro.

Kuriles. Kunashiri.

Southern Saghalien. Odomari, Mauka, Ushoro.

DISTRIB. Saghalien, Kuriles, Yezo, Eastern Siberia, Amur, Ussuri and Baical.

399. *Carex pallida* C. A. Mey. in Mém. Acad. St. Pétersb. I. 215; Kunth, Enum. Pl. II. 395; Ledeb. Fl. Ross. IV. 275; Maxim. Prim. Fl. Amur. 305; Fr. Schm. Fl. Sachal. 192; Kük. Cyp.-Car. 143, et Car. Sachal. 35; Miyabe & Miyake, Fl. Saghal. 531; Kudo, Contr. Fl. N. Saghal. 23, et Rep. Veg. N. Saghal. 66; Mak. & Nem. Fl. Jap. 1359; Hult. Fl. Kamtch. I. 176; Kom. Fl. Penins. Kamtsch. I. 225.

Carex siccata Boott, Ill. I. 19, p. p.; Korsh. Pl. Amur. 408; Kom. Fl. Mansh. I. 356; Matsum. Ind. Pl. Jap. II. 1: 132; Koidz. Pl. Sachal. 28; Mak. & Nem. Fl. Jap. 1369, non Dewey.

NOM. JAP. *Yezo-kawazusuge*, *Usuiro-suge*.

HAB. *Yezo*. Iburi, Ishikari, Tokachi, Kushiro, Nemuro.

Southern Saghalien. Odomari, Honto, Mauka, Toyohara, Shikka.

Northern Saghalien. Alexandrowsk, Tim, Tymi.

DISTRIB. Saghalien, Yezo, Korea, Manchuria, E. Siberia, Kamtchatka.

400. *Carex nubigena* D. Don, in Trans. Linn. Soc. XIV. 326; Kunth, Enum. Pl. II. 358; Boott, Ill. I. 1, t. 2; Hook. f. Fl. Brit. Ind. VI. 702; Franch. Car. As.-Or. 214; Diels, Fl. C. China, 229; Kük. Cyp.-Car. 145.

var. ***albata*** Kük. l. c. 146; Matsum. Ind. Pl. Jap. II. 1: 123; Nakai, Fl. Korea. II. 305; Mak. & Nem. Fl. Jap. 1356.

Carex albata Boott, apud Miq. in Ann. Mus. Lugd. Batav. III. 193, et Prol. Fl. Jap. 357; Fr. et Sav. Enum. Pl. Jap. II. 553; Franch. Car. As.-Or. 216; Korsh. Pl. Amur. 408; Kom. Fl. Mansh. I. 358; Palib. Consp. Fl. Korea. III. 21.

Carex argyrolepis Maxim. in Fr. et Sav. Enum. Pl. Jap. II. 126.

Carex yedoensis Boeck. in Engl. Bot. Jahrb. V. 515.

NOM. JAP. *Chabo-minoborosuge*.

HAB. *Yezo*. Oshima, Shiribeshi.

DISTRIB. Yezo, Honshu, Shikoku, Kyushu, Korea, Amur and Manchuria.

form. ***laxiuscula*** Kük. l. c.; Matsum. l. c.

NOM. JAP. *Minoboro-suge*.

HAB. *Yezo*. Oshima.

DISTRIB. Yezo and Honshu. *sp. typ.* China, India, Nepal, Himalaya, Cabul and Malay.

401. *Carex stipata* Muehlenb. apud Willd. Sp. Pl. IV. 233; Kunth, Enum. Pl. II. 382; Boott, Ill. III. 121, *t.* 390; Fr. et Sav. Enum. Pl. Jap. II. 125; Britt. & Br. Ill. Fl. I. 343; Franch. Car. As-Or. 218; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. X. 106; Matsum. Ind. Pl. Jap. II. 1: 134; Kük. Cyp.-Car. 172; Mak. & Nem. Fl. Jap. 1370.

NOM. JAP. *Oh-kawazusuge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Kitami, Kushiro, Nemuro.

Southern Saghalien. Odomari.

DISTRIB. Saghalien, Yezo, Honshu and North America.

402. *Carex diandra* Schrank, in Act. Acad. Mogunt. 49, et in Baier. Fl. 281; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2. 48; Kük. Cyp.-Car. 175, *f.* 28, *A-D*; Printz, Veg. Sib. Mong. Front. 143; Hult. Fl. Kamtch. I. 177; Kom. Fl. Penins. Kamtsch. I. 226.

Carex teretiuscula Good. in Trans. Linn. Soc. II. 163; Kunth, Enum. Pl. II: 390; Boott, Ill. IV. 145; Britt. & Br. Ill. Fl. I. 344; Meinsh. in Act. Hort. Peterp. XVIII. 313.

form. **major** Koch, Syn. ed. 1, 751; Boott, l. c.; Kük. l. c.

NOM. JAP.

HAB. *Yezo*. Oshima, Iburi, Ishikari, Kushiro.

Kuriles. Kunashiri.

Southern Saghalien. Odomari, Shikka.

DISTRIB. Saghalien, Yezo, Kuriles, Kamtchatka, Eastern Siberia, Himalaya, Kashmir, Europe, North America and New Zealand.

403. *Carex macrocephala* Willd. apud Spr. Syst. III. 808; Kunth, Enum. Pl. II. 428; Boott, Ill. I. 27, *t.* 69; Rgl. Tent. Fl. Ussuri. *t.* 12, *f.* 8-12; Franch. Carex As.-Or. 237, p. p.; Korsh. Pl. Amur. 408; Miyabe, Fl. Kuril. 268; Palib. Consp. Fl. Korea. III. 23; Kom. Fl. Mansh. I. 356; Forb. et Hemsl. Ind. Fl. Sin. III. 296; Matsum. Ind. Pl. Jap. II. 1: 119, p. p.; Kük. Cyp.-Car. 187, p. p., et Car. Sachal. 35; Koidz. Pl. Sachal. 27; Nakai, Fl. Korea. II. 306; Miyabe & Miyake, Fl. Saghal. 531; Takeda, Fl. Shikotan, 493; Kudo, Contr. Fl. N. Saghal. 23, et Rep. Veg. N. Saghal. 67; Hult. Fl. Kamtch. I. 178; Kom. Fl. Penins. Kamtsch. I. 226; Fernald, in Rhodora, XXXII. 9.

var. **typica** Miyabe et Kudo.

NOM. JAP. *Yezo-no-kobomugi*.

HAB. *Yezo*. Oshima, Shiribeshi, Okushiri, Iburi, Ishikari, Teshio, Kitami, Rebun.

Kuriles. Kunashiri, Shikotan, Etorofu, Urup.

Southern Saghalien. Odomari, Mauka, Tomarioro, Ushori, Shikka.

Northern Saghalien. Alexandrowsk, Nyiwo, Pronge-Balkal.

DISTRIB. Saghalien, Kuriles, Yezo, Korea, China, Manchuria, Ussuri, Eastern Siberia and Kamtchatka.

var. **Kobomugi** Miyabe et Kudo.

Carex Kobomugi Ohwi, in Mem. Coll. Sci. Kyoto Imp. Univ., ser. B. V. 3: 281.

Carex macrocephala A. Gray, in Perry Exped. 328; Miq. Prol. Fl. Jap. 79; Fr. et Sav. Enum. Fl. Jap. II. 132; Franch. *Carex* As.-Or. 287, p. p.; Lévl. et Vant. in Bull. Acad. Intern. Geogr. Bot. (1901) 127; Matsum. Ind. Pl. Jap. II. 1: 119, p. p.; Kük. Cyp.-Car. 187, p. p., non Willd.

NOM. JAP. *Kobomugi*.

HAB. *Yezo*. Oshima, Okushiri, Shiribeshi, Iburi, Ishikari.

DISTRIB. Yezo, Honshu, Shikoku, Kyushu, Korea, Ussuri and North China.

404. *Carex cyperoides* L. Syst. Veg. ed. 13, 703; Kunth, Enum. Pl. II. 392; Boott, Ill. IV. 184; Ledeb. Fl. Ross. IV. 271; Maxim. Prim. Fl. Amur. 305; Kom. Fl. Mansh. I. 355; Kük. Cyp.-Car. 191; Tatewaki, Veg. Mt. Akan, (49).

NOM. JAP. *Kayatsuri-suge*.

HAB. *Yezo*. Kushiro.

DISTRIB. Yezo, Manchuria, Amur, Siberia and Europe.

405. *Carex Macloviana* D'Urv. in Mém. Soc. Linn. Paris IV. 599; Kük. in Engl. Bot. Jahrb. XXVII. 505, et Cyp.-Car. 195; Kudo, Fl. Paramushir, 78; Hult. Fl. Kamtch. I. 178; Kom. Fl. Penins. Kamtsch. I. 227.

Carex ovalis β . *minor* Brongn. in Duperr. Voy. Coquille Bot. 149; Boott, in Hook. f. Fl. Antarct. II. 362.

Carex propinqua Nees et Meyen, in Meyen, Reise um die Erde, I. 116;

Kunth, Enum. Pl. II. 396; Hildebrand, Fl. Hawai. Isl. 489.

Carex festiva Dew. in Am. Jour. Soc. XXIX. 246; Boott, Ill. I. 26, t. 66.

NOM. JAP.

HAB. *Kuriles*. Paramushir.

DISTRIB. Kuriles, Kamtchatka, Europe, North and South America, and Sandwich Isl.

406. *Carex Maackii* Maxim. Prim. Fl. Amur. 308; Franch. Car. As.-Or. 231; Meinsh. in Act. Hort. Petrop. XVIII. 318; Kom. Fl. Mansh. I. 357; Kük. Cyp.-Car. 201; Nakai, Fl. Korea. II. 306; Mak. & Nem. Fl. Jap. 1352.

var. ***nipponica*** Ohwi, in Mem. Coll. Sci., Kyoto Imp. Univ., ser B. V. 3: 280.

Carex nipponica Franch. in Bull. Soc. Bot. Franc. XXVI. 89, et Car. As.-Or. 218; Matsum. Ind. Pl. Jap. II. 1: 122.

Carex lagopodioides Fr. et Sav. Enum. Pl. Jap. II. 125; Franch. Car. As.-Or. 230; Matsum. Ind. Pl. Jap. II. 1: 117, non Schkuhr.

Carex vulpinoidea Lévl. et Vnt. in Bull. Acad. Intern. Géogr. Bot. X. 123; Matsum. Ind. Pl. Jap. II. 1: 137; Mak. & Nem. Fl. Jap. 1376, non Michx.

Carex calcitrapa Franch. in Bull. Soc. Philom. Paris, sér. 3, VII. 30, et *Carex* As.-Or. 218.

NOM. JAP. *Yagami-suge*, *Yezo-azesuge*.

HAB. *Yezo*. Hidaka, Ishikari, Kitami.

DISTRIB. *Yezo*, Honshu and Kyushu.

407. *Carex planata* Fr. et Sav. Enum. Pl. Jap. II. 125, 555; Franch. Car. As.-Or. 233; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. X. 124; Matsum. Ind. Pl. Jap. II. 1: 126; Kük. Cyp.-Car. 211; Mak. & Nem. Fl. Jap. 1361.

Carex ponmōshirensis Miyabe et Kudo, Mater. Fl. Hokkaido, no. 76, in Trans. Sapporo Nat. Hist. Soc. VI. 165.

NOM. JAP. *Takane-masukusa*, *Nishida-suge*.

HAB. *Yezo*. Ishikari, Kitami.

DISTRIB. *Yezo*, Honshu, Shikoku and Kyushu.

408. *Carex lagopina* Wahlenb. in Vet. Akad. Handl. Stockholm, XXIV. 145; Boott, Ill. IV. 189; Ledeb. Fl. Ross. IV. 279; Wats. Bot. Calif. II. 233; Britt. & Br. Ill. Fl. I. 353; Fernald, in Proc. Am. Acad. XXXVII. 494, *f.* 139, 140; Meinsh. in Act. Hort. Petrop. XVIII. 325; Ostenfeld, Fl. Arct. 58; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 59; Kük. Cyp.-Car. 213, *f.* 35, *A-B*; Hegi, Ill. Fl. Mittel-Europ. II. 74, *f.* 222; Kudo, Fl. Paramushir, 78; Mak. & Nem. Fl. Jap. 1349; Kom. Fl. Penins. Kamtsch. I. 229; Nakai, Veg. Mt. Daisetsusan, 59.

Carex Lachenalii Schkuhr, Riedgr. 1, 51, *t.* *Y.* *f.* 79; Hult. Fl. Kamtch. I. 179.

NOM. JAP. *Takane-yagamisuge*.

HAB. *Yezo*. Ishikari.

Kuriles. Paramushir.

DISTRIB. *Yezo*, Kuriles, Kamtchatka, Tschukschland, Siberia, Khasia-Hills, Europe, North America and New Zealand.

409. *Carex glareosa* Wahlenb. in Vet. Akad. Handl. Stockholm, XXIV. 146; Willd. Sp. Pl. IV. 251; Kunth, Enum. Pl. II. 394; Ledeb. Fl. Ross. IV. 284; Boott, Ill. IV. 153, *t.* 494, *f.* 1-4; Boeck. in Linnaea, XXXIX. 75; Britt. & Br. Ill. Fl. I. 353; Fernald, in Proc. Am. Acad. XXXVI. 493, *f.* 137, 138; Meinsh. in Act. Hort. Petrop. XVIII. 325; Ostenf. Fl. Arct. 58, *f.* 28; Kük. Cyp.-Car. 215; Hult. Fl. Kamtch. I. p. 180.

form. ***elegantissima*** Kük. Car. Sachal. 35; Miyabe & Miyake, Fl. Saghal. 532; Kudo, Contr. Fl. N. Saghal. 23, et Rep. Veg. N. Saghal. 67; Mak. & Nem. Fl. Jap. 1343.

Carex glareosa Wahlb. var. *soriofkensis* Lévl. et Vnt. in Fedde, Repert. VII. 103.

NOM. JAP. *Susuya-suge*.

HAB. *Southern Saghalien*. Odomari, Shikka.

Northern Saghalien. Nyiwo.

DISTRIB. form. Saghalien. *sp.* North coast of Siberia, Kamtchatka, Chuktsch-Penins., Islands in Bering Sea, Alaska to Labrador and Greenland and Europe.

410. *Carex norvegica* Willd. ex Schkuhr, Riedgr. I. 50, *t.* *S.* *f.* 66, et II. 207; Willd. Sp. Pl. IV. 227; Kunth, Enum. Pl. II. 393; Boott, Ill.

IV. 214; Boeck. in Linnaea, XXXIX. 123; Britt. & Br. Ill. Fl. I. 351; Meinsh. in Act. Hort. Petrop. XVIII. 330; Ostenf. Fl. Arct. 56; Fernald, in Proc. Am. Acad. XXXVI. 491, *t. V. f. 135-136*; Kük. Cyp.-Car. 216, et Car. Sachal. 35; Lévl. in Fedde, Repert. VII. 103; Miyabe & Miyake, Fl. Saghal. 532; Nakai, in Tokyo Bot. Mag. XXIX. (59); Hult. Fl. Kamtch. I. 181; Kom. Fl. Penins. Kamtsch. I. 229.

Carex soriofkensis Lévl. et Vnt. in Bull. Acad. Géogr. Bot. XXIX. (1909) 35.

Carex lagopina Koidz. Pl. Sachal. 29, non Wahl.

NOM. JAP. *Norge-suge, Karafuto-suge.*

HAB. *Southern Saghalien.* Odomari.

DISTRIB. Saghalien, Ochotsk, Kamtschatka, Chuktsch-Penins., Alaska, Sitcha, North America and Europe.

411. *Carex canescens* L. Sp. Pl. ed. 1, 974; Ledeb. Fl. Ross. IV. 280; Boott, Ill. IV. 154, *t. 496*; Fr. Schm. Fl. Sachal. 93; Hook. f. Fl. Brit. Ind. VI. 706; Britt. & Br. Ill. Fl. I. 351; Fernald, in Proc. Am. Acad. XXXVI. 487, *f. 114, 115*; Franch. Car. As.-Or. 226; Kurtz, in Engl. Bot. Jahrb. XIX. 416; Kom. Fl. Mansh. I. 363; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 60; Koidz. Pl. Sachal. 28; Matsum. Ind. Pl. Jap. II. 1: 306; Hegi, Ill. Fl. Mittel-Europ. II. 75, *t. 47, f. 4*; Miyabe & Miyake, Fl. Saghal. 533; Kük. Cyp.-Car. 216, et Car. Sachal. 35; Nakai, Fl. Korea. II. 306; Printz, Veg. Sib. Mong. Front. 146; Kudo, Contr. Fl. N. Saghal. 23, et Rep. Veg. N. Saghal. 68; Mak. & Nem. Fl. Jap. 1334; Hult. Fl. Kamtch. I. 181; Kom. Fl. Penins. Kamtsch. I. 230.

NOM. JAP. *Hakusan-suge.*

HAB. *Yezo.* Shiribeshi, Iburi, Hidaka, Ishikari, Tokachi, Nemuro.

Kuriles. Kunashiri.

Southern Saghalien. Odomari, Mauka, Toyohara, Shikka.

Northern Saghalien. Tymi, Nyiwo.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Korea, Manchuria, Kamtschatka, Siberia, Kashmir, Caucasus, Europe, North and South America and Australia.

var. **fallax** Kurtz, apud Aschers. u. Graebn. l. c. 61; Kük. l. c. 217; Miyabe & Miyake, l. c. 533; Kudo, ll. cc.

Carex canescens L. var. *dubia* Kük. in Engl. Bot. Jahrb. XXVII. 509, non Bailey.

NOM. JAP. *Ko-hakusansuge*.

HAB. *Southern Saghalien*. Odomari, Shikka.

Northern Saghalien. Alexandrowsk, Tymi.

DISTRIB. Saghalien, Europe, Greenland and N. America.

var. **subloliacea** Laestad. in Hartm. Handb. Sc. Fl. ed. 4, 299; Fernald, in Proc. Am. Acad. XXXVII. 488, *t. V. f. 116–117*; Kük. Cyp.-Car. 216; Miyabe & Miyake, Fl. Saghal. 216; Prinz, l. c.

Carex lapponica O. F. Lang, in Linnaea, XXIV. 539.

Carex gracilis Meinsh. in Act. Hort. Petrop. XVIII. 702.

NOM. JAP. *Hosoba-hakusansuge*.

HAB. *Southern Saghalien*. Odomari, Toyohara, Shikka.

Northern Saghalien. Alexandrowsk.

DISTRIB. Saghalien, North America and Europe.

412. *Carex traiziscana* Fr. Schm. Fl. Sachal. 192, *t. 7, f. 11–15*; Franch. Car. As.-Or. 234; Meinsh. in Act. Hort. Petrop. XVIII. 327; Matsum. Ind. Pl. Jap. II. 1: 136; Kük. Cyp.-Car. 218, et Car. Sachal. 35; Miyabe & Miyake, Fl. Saghal. 533; Kudo, Contr. N. Saghal. 23, et Rep. Veg. N. Saghal. 68; Mak. & Nem. Fl. Jap. 1374; Hult. Fl. Kamtch. I. 182; Kom. Fl. Penins. Kamtsch. I. 233.

Carex nemorensis Franch. in Bull. Soc. Philom. Paris 8 sér. VII. 30; Matsum. Ind. Pl. Jap. II. 1: 122.

NOM. JAP. *Osenuma-suge*.

HAB. *Yezo*. Iburi, Hidaka, Ishikari, Kushiro, Nemuro.

Kuriles. Kunashiri.

Southern Saghalien. Odomari, Mauka, Tomarioro, Toyohara, Shikka.

Northern Saghalien. Alexandrowsk, Tim, Tymi.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu and Kamtchatka.

413. *Carex brunnescens* Poir. Encycl. Suppl. III. 286; Britt. & Br. Ill. Fl. I. 351; Fernald, in Proc. Am. Acad. XXXVI. 489, *f. 121, 124*; Ostenfeld, Fl. Arct. 56; Kük. Cyp.-Car. 219; Kom. Fl. Penins. Kamtsch. I. 230.

var. **sphaerostachya** Kük. l. c. 220; Kudo, Fl. Paramushir, 79; Makino & Nemoto, Fl. Jap. 1334; Hult. Fl. Kamtch. I. 182.

Carex sphaerostachya Desv. in Ann. Jour. Sc. XLIX. 44.

Carex brunnescens Poir. var. *gracilior* Britt. & Br. l. c.

Carex brunnescens Poir. var. *vitalis* Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 62.

Carex macilenta Miyabe, Fl. Kuril. 268, non Fries.

NOM. JAP. *Hime-kawazusuge*.

HAB. *Yezo*. Shiribeshi.

Kuriles. Etorofu, Paramushir.

Southern Saghalien. Toyohara.

DISTRIB. var. *Saghalien*, *Kuriles*, *Yezo*, *Honshu*, *Kamtchatka*, *Siberia*, *Turkestan*, *Europe* and *North America*. *sp. typ.* *Siberia*, *Europe* and *North America*.

414. *Carex tenella* Schkuhr, Riedgr. I. 23; Boott, Ill. I. 47; Fr. Schm. Fl. Sachal. 193; Franch. Car. As.-Or. 223; Britt. & Br. Ill. Fl. I. 346; Kom. Fl. Mansh. I. 362; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 63; Kük. Cyp.-Car. 223; Koidz. Pl. Sachal. 28; Nakai, Fl. Korea. II. 307; Hegi, Ill. Fl. Mittel-Europ. II. 76. f. 225; Miyabe & Miyake, Fl. Saghal. 534; Printz, Veg. Sib.-Mong. Front. 146; Kudo, Contr. Fl. N. Saghal. 23, et Rep. Veg. N. Saghal. 68; Hult. Fl. Kamtch. I. 183; Kom. Pl. Penins. Kamtsch. I. 231.

NOM. JAP. *Karafuto-hososuge*.

HAB. *Southern Saghalien*. Odomari, Motodomari, Shikka.

Northern Saghalien. Alexandrowsk, Tymi.

DISTRIB. *Saghalien*, *Korea*, *Manchuria*, *Eastern Siberia*, *Kamtchatka*, *Europe* and *North America*.

var. **misera** Franch. Car. As.-Or. 224; Kük. l. c. 224, et Car. Sachal. 35; Miyabe & Miyake, Fl. Saghal. 534.

Carex misera Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 31; Matsum. Ind. Pl. Jap. II. 1: 135.

Carex tenella Schukhr var. *Dominii* Levl. et Vnt. in Fedde, Repert. VII. 103.

NOM. JAP. *Hoso-suge*.

HAB. *Yezo*. Ishikari, Kushiro.

Southern Saghalien. Odomari.

DISTRIB. Saghalien, Yezo and Honshu.

var. **brachycarpa** Kük. Car. Sachal. 36; Lévl. et Vnt. in Fedde, Repert. VII. 103; Miyabe & Miyake, l. c. 534.

NOM. JAP. *Kotsubu-hososuge*.

HAB. *Southern Saghalien*. Odomari, Motodomari, Shikka.

DISTRIB. Endemic plant.

415. *Carex tenuiflora* Wahlenb. in Vet. Akad. Handl. Stockholm, XXIV. 147; Kunth, Enum. Pl. II. 405; Ledeb. Fl. Ross. IV. 282; Fr. Schm. Fl. Amg.-Burej. 68; Boott, Ill. IV. 144, *t.* 463; Britt. & Br. Ill. Fl. I. 352; Fernald, in Proc. Am. Acad. XXXVI. 491, *f.* 129, 130; Franch. Car. As.-Or. 224; Kom. Fl. Mansh. I. 361; Matsum. Ind. Pl. Jap. II. 1: 135; Kük. Cyp.-Car. 224; Nakai, Fl. Korea. II. 307; Miyabe & Miyake, Fl. Saghal. 535; Printz, Veg. Sib. Mong. Front. 147; Kudo, Contr. Fl. N. Saghal. 24, et Rep. Veg. N. Saghal. 69; Mak. & Nem. Fl. Jap. 1372; Hult. Fl. Kamtch. I. 183; Kom. Fl. Penis. Kamtsch. I. 232.

NOM. JAP. *Shiro-harisuge*, *Ippon-suge*.

HAB. *Yezo*. Shiribeshi, Iburi.

Southern Saghalien. Shikka.

Northern Saghalien. Alexandrowsk, Tymi.

DISTRIB. Saghalien, Yezo, Honshu, Koera, Manchuria, Amur, Kamtchatka, Eastern Siberia, Europe and North America.

var. **arrhyncha** Kük. l. c. 224, et Car. Sachal. 36; Miyabe & Miyake, Fl. Saghal. 535; Mak. & Nem. l. c.

Carex arrhyncha Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 30, et Car. As.-Or. 228; Matsum. Ind. Pl. Jap. II. 1: 100.

NOM. JAP. *Hari-tamasuge*.

HAB. *Yezo*. Kushiro.

Southern Saghalien. Shikka.

DISTRIB. Saghalien and Yezo.

var. **macilenta** O. F. Lang, in Linnaea, XXIV. 541; Kük. Cyp.-Car. 225, et Car. Sachal. 36; Miyabe & Miyake, Fl. Saghal. 535; Mak. & Nem. l. c.

Carex macilenta Fries, in Bot. Notis. (1844) 23; Boott, Ill. IV. 147, t. 471; Fr. Schm. Fl. Sachal. 193; Franch. Car. As.-Or. 226.

Carex canescens var. *macilenta* Christ, in Bull. Soc. Bot. Belgique, XXIV. 2: 18.

NOM. JAP. *Yezo-harisuge*.

HAB. *Yezo*. Kushiro.

Southern Saghalien. Tomarioro.

DISTRIB. Saghalien, Yezo and Central Norway.

416. *Carex pseudo-loliacea* Fr. Schm. Fl. Sachal. 193, t. 6, f. 7-13; Franch. Car. As.-Or. 225; Kük. Cyp.-Car. 225, et Car. Sachal. 36; Miyabe & Miyake, Fl. Saghal. 536; Kudo, Contr. Fl. N. Saghal. 24, et Rep. Veg. N. Saghal. 69; Mak. & Nem. Fl. Jap. 1363.

NOM. JAP. *O-tsurusuge*.

HAB. *Yezo*. Shiribeshi, Tokachi.

Kuriles. Etorofu.

Southern Saghalien. Odomari, Toyohara, Motodomari, Shikka.

Northern Saghalien. Alexandrowsk, Tymi, Nyiwo.

DISTRIB. Saghalien, Kuriles and Yezo.

form. **sejuncta** Kük. l. c. et Car. Sachal. 36; Miyabe & Miyake, l. c.; Kudo, ll. cc.; Mak. & Nem. l. c.

NOM. JAP. *Seitaka-tsurusuge*.

HAB. *Yezo*. Ishikari, Tokachi.

Southern Saghalien. Odomari, Toyohara.

Northern Saghalien. Tim.

DISTRIB. Saghalien and Yezo.

417. *Carex loliacea* L. Sp. Pl. ed. 1, 974; Kunth, Enum. Pl. II. 405; Boott, Ill. I. 48, t. 127; Rgl. Tent. Fl. Ussuri. 164; Turcz. Cat. Baical. Dah. n. 1218; Franch. Car. As.-Or. 225; Kom. Fl. Mansh. I. 362; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 63; Matsum. Ind. Pl. Jap. II. 1: 118; Kük. Cyp.-Car. 225, et Car. Sachal. 35; Nakai, Fl. Korea. II. 307; Miyabe

& Miyake, Fl. Saghal. 536; Mak. & Nem. Fl. Jap. 1351; Hult. Fl. Kamtch. I. 184; Kom. Fl. Penins. Kamtsch. I. 231.

NOM. JAP. *Akan-suge*.

HAB. *Yezo*. Kushiro.

Southern Saghalien. Odomari.

DISTRIB. Saghalien, Yezo, Honshu, Korea, Manchuria, Dahuria, Kamtchatka, Siberia and Europe.

418. *Carex stellulata* Good. in Trans. Linn. Soc. II. 144; Kunth, Enum. Pl. II. 399; A. Gray, Bot. Jap. 417; Fr. et Sav. Enum. Pl. Jap. II. 126; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 54; Forb. et Hemsl. Ind. Fl. Sin. III. 311; Matsum. Ind. Pl. Jap. II. 1: 133; Kük. Cyp.-Car. 228; Takeda, Fl. Shikotan, 493; Kudo, Fl. Paramushir, 79; Mak. & Nem. Fl. Jap. 1370; Kom. Fl. Penins. Kamtsch. I. 232.

Carex echinata Boeck. in Linnaea, XXXIX. 124; Franch. Car. As.-Or. 232; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. X. 123; Hult. Fl. Kamtch. I. 184, non Murr.

NOM. JAP. *Kawazusuge*.

HAB. *Yezo*. Shiribeshi, Iburi, Hidaka, Ishikari, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Etorofu, Paramushir.

Southern Saghalien. Shikka.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, China, Kamtchatka, Asia Minor, Syria, Europe, North America, Australia and New Zealand.

var. ***omiana*** Kük. Cyp.-Car. 230; Matsum. Ind. Pl. Jap. II. 1: 134; Mak. & Nem. l. c.

Carex omiana Fr. et Sav. Enum. Pl. Jap. II. 126, 554; Franch. Car. As.-Or. 232; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. X. 124.

NOM. JAP. *Yachi-kawazusuge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Teshio, Tokachi.

Kuriles. Kunashiri.

DISTRIB. Kuriles, Yezo and Honshu.

419. *Carex laeviculmis* Meinsh. in Bot. Centralb. LV. 195, et in Act. Hort. Petrop. XVIII. 326; Kük. Cyp.-Car. 232; Mak. & Nem. Fl. Jap. 1349;

Hult. Fl. Kamtch. I. 185; Kom. Fl. Penins. Kamtsch. I. 233.

NOM. JAP.

HAB. *Yezo*. Iburi, Ishikari.

DISTRIB. *Yezo*, Honshu, Kamtchatka and Pacific North America.

420. *Carex remota* L. Amoen. Acad. IV. 293; Kunth, Enum. Pl. II. 404; Boott, Ill. 1. 198; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 66; Kük. Cyp.-Car. 233; Mak. & Nem. Fl. Jap. 1365.

subsp. ***Rochebrunii*** Kük. l. c. 234; Mak. & Nem. l. c.

Carex Rochebrunii Fr. et Sav. Enum. Pl. Jap. II. 126, 555.

Carex remota L. β . *Rochebrunii* C. B. Clarke, in Hook. f. Fl. Brit. Ind. VI. 707, ex. p.

var. ***remotaeformis*** Kük. l. c. 235; Miyabe & Miyake, Fl. Saghal. 537; Mak. & Nem. l. c.

Carex remotaeformis Kom. in Act. Hort. Petrop. XVIII. 444, et Fl. Mansh. I. 364.

Carex remota Fr. et Sav. Enum. Fl. Jap. II. 126; Franch. Car. As.-Or. 235; Lévl. et Vnt. l. c. 125; Matsum. Ind. Pl. Jap. II. 1: 131, non L.

NOM. JAP. *Yabusuge*, *Shotaisuge*, *Itohikisuge*.

HAB. *Yezo*. Hidaka, Ishikari, Kitami, Kushiro, Nemuro.

Southern Saghalien. Toyohara, Mauka, Todomoshiri, Motodomari.

DISTRIB. Saghalien, *Yezo*, Honshu, Korea, China, Manchuria, Sikkim-Himalaya.

421. *Carex dissitiflora* Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 32, et Car. As.-Or. 250, *t.* 5; Kük. Cyp.-Car. 254, *f.* 38, *F-L.*; Mak. & Nem. Fl. Jap. 1339.

Carex subdissitiflora Kük. in Matsum. Ind. Pl. Jap. II. 1: 135.

NOM. JAP. *Miyama-juzusuge*.

HAB. *Yezo*. Shiribeshi, Ishikari, Kitami.

DISTRIB. *Yezo* and Honshu.

422. *Carex eleusinoides* Turcz. apud Kunth, Enum. Pl. II. 407; Turcz. Fl. Baic.-Dahur. II. 1: 267; Boott, Ill. IV. 132, *t.* 428, *f.* 1; Meinsh. in Acta Horti Petrop. XVIII. 332; Kük. Cyp.-Car. 299; Hult. Fl. Kamtch. I. 185; Kom. Fl. Penins. Kamtsch. I. 235.

NOM. JAP.

HAB. *Yezo*. Ishikari.

DISTRIB. *Yezo*, Kamtchatka, Ochotsk, Amur and Eastern Siberia.

423. *Carex orbicularis* Boott, in Proc. Linn. Soc. I. 254, et in Trans. Linn. Soc. XX. 134; Kük. Cyp.-Car. 303.

var. ***brachylepis*** Kük. l. c. 304, f. 46, *G-H*; Nakai, Fl. Korea. II. 309; Mak. & Nem. Fl. Jap. 1359.

Carex glauca β . *brachylepis* Rgl. in Act. Hort. Petrop. VII. 572.

Carex vulgaris var. *distracta* C. B. Clarke, in Hook. f. Fl. Brit. Ind. VI. 711.

Carex tegulata Lévl. et Vnt. in Bull. Acad. Géogr. Bot. XI. 306.

NOM. JAP.

HAB. *Yezo*. Without locality. (Faurie)

DISTRIB. var. *Yezo*, Korea, Turkestan, West Himalaya. *sp.* Caucasus, Persia, Afghanistan, Himalaya, Tibet, Turkestan, Altai and Tschuktschland.

424. *Carex Thunbergii* Steud. in Flora XXIX. 23; Miq. Prol. Fl. Jap. 81; Fr. et Sav. Enum. Pl. Jap. 129, (incl. var. *quinquenervis* et var. *platycarpa*); Nakai, Veg. Daisetsusan Mts. 59.

Carex caespitosa Thunb. Fl. Jap. 39, non L.

Carex vulgaris Fr. et Sav. Enum. Pl. Jap. II. 128, (incl. var. β . *niigatensis*); Franch. Car. As.-Or. 124, non Fries.

Carex Goodenowii Clarke, in Forb. et Hemsl. Ind. Fl. Sin. III. 187, non Gay.

Carex Gaudichaudiana Kunth var. *Thunbergii* Kuek. Cyp.-Car. 313; Matsum. Ind. Pl. Jap. II. 1: 111; Mak. & Nem. Fl. Jap. 1342.

NOM. JAP. *Azesuge*.

HAB. *Yezo*. Oshima, Iburi, Ishikari.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu and China.

var. ***brachysandra*** Miyabe et Kudo.

Carex brachysandra Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 40, et in Nouv. Arch. Mus. Paris, 3 sér. VIII. t. 9, f. 1, et IX. 130; Matsum. Ind. Pl. Jap. II. 1: 101.

Carex Gaudichaudiana var. *Thunbergii* forma *brachysandra* Kuek. Cyp.-Car. 313.

NOM. JAP. *O-azesuge*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Ishikari, Tokachi, Kushiro.

Kuriles. Etorofu.

DISTRIB. Kuriles, Yezo and Honshu.

425. *Carex aperta* Boott, in Hook. Fl. Bor.-Amer. II. 218; Bailey, in Proc. Am. Acad. XXII. 85 ex parte, et in Bot. Gag. XIII. 84, et in Mem. Torr. Bot. Club, I. 52; Franch. Car. As.-Or. 125; Kuek. Cyp.-Car. 318; Matsum. Ind. Pl. Jap. II. 1: 99; Mak. & Nem. Fl. Jap. 1330.

NOM. JAP.

HAB. *Yezo*. Kitami, Nemuro.

Kuriles. Urup.

Southern Saghalien. Odomari, Toyohara.

DISTRIB. Saghalien, Yezo, Kuriles and Pacific North America.

426. *Carex descendens* Kuek. in Finsk Vetensk.-Soc. Förh. XLV. 6, et Cyp.-Car. 326; Kom. Fl. Penins. Kamtsch. I. 237.

NOM. JAP.

HAB. *Southern Saghalien*. Toyohara (Ochiai, S. Sugawara, 1921.)

DISTRIB. Saghalien, Kamtchatka and East Siberia.

427. *Carex Schmidtii* Meinsh. in Baer et Helmersen, Beitr. Kenntn. russ. Reich. XXVI. 224, et in Act. Hort. Petrop. XVIII. 338; Kük. Cyp.-Car. 326, et Car. Sachal. 36; Korsh. Pl. Amur. 411; Kom. Fl. Mansh. I. 367; Nakai, Fl. Korea. II. 310; Lévl. in Fedde, Repert. VII. 104; Miyabe & Miyake, Fl. Saghal. 357; Kudo, Contr. Fl. N. Saghal. 24, et Rep. Veg. N. Saghal. 69; Mak. & Nem. Fl. Jap. 1367; Hult. Fl. Kamtsch. I. 187; Kom. Fl. Penins. Kamtsch. I. 238.

Carex vulgaris Maxim. Prim. Fl. Amur. 314, non Fries.

Carex aperta Boott, Ill. IV. 132, p. p.

Carex Maximowiczii Fr. Schm. Fl. Amg.-Burej. 71, non Miq.

Carex stricta Kom. Fl. Mansh. I. 368, non Good.

Carex vladimiroviensis Lévl. in Fedde, Repert. VII. 104.

NOM. JAP. *Schmidt-suge*, *Korai-azesuge*.

HAB. *Yezo*. Nemuro.

Southern Saghalien. Odomari, Toyohara, Shikka.

Northern Saghalien. Nyiwo.

DISTRIB. Saghalien, Yezo, Korea, Manchuria, Amur, Eastern Siberia and Kamtchatka.

428. *Carex caespitosa* L. Sp. Pl. ed. 1, 978; Boott, Ill. I. 23, *t.* 62; Ledeb. Fl. Ross. IV. 310; Rgl. Tent. Fl. Ussur. 166; Franch. Car. As.-Or. 127; Korsh. Pl. Amur. 411; Meinsh. in Act. Hort. Petrop. XVIII. 337; Kom. Fl. Mansh. I. 366; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 86; Kük. Cyper.-Caric. 328, et Car. Sachal. 36; Hegi, Ill. Fl. Mittel-Europ. II. 79; Miyabe & Miyake, Fl. Saghal. 328; Printz, Veg. Sib. Mong. Front. 149; Nakai, Veg. Daisetsusan Mts. 59.

Carex caespitosa L. var. *rubra* Lévl. et Vnt. in Fedde, Repert. VII. 104.

NOM. JAP. *Kuro-o-suge*, *O-kurome-suge*, *Kabusuge*.

HAB. *Yezo*. Iburi, Ishikari, Kushiro, Nemuro.

Southern Saghalien. Odomari, Toyohara, Shikka.

DISTRIB. Saghalien, Yezo, Honshu, Manchuria, Amur, Ussuri, Siberia, Caucasus, Europe and North America.

var. ***minuta*** Kük. l. c. 329, et Car. Sachal. 36; Takeda, Fl. Shikotan, 493; Miyabe & Miyake, Fl. Saghal. 538; Kudo, Contr. Fl. N. Saghal. 24, et Rep. Veg. N. Saghal. 70; Mak. & Nem. Fl. Jap. 1334.

Carex minuta Franch. in Bull. Soc. Philom. Paris 8 sér. VII. 41 et Car. As.-Or. 125.

Carex usta Franch. in Bull. Soc. Philom. Paris 8 sér. VII. 41 et Car. As.-Or. 125.

NOM. JAP. *Kuro-me-suge*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Tokachi.

Kuriles. Shikotan, Urup.

Southern Saghalien. Odomari, Toyohara, Shikka.

Northern Saghalien. Tymi.

DISTRIB. Saghalien, Kuriles and Yezo.

429. *Carex vulpi-caudata* Akiyama, in Journ. Facult. Sci. Hokkaido Imp. Univ. Ser. V. I. 2: 63.

NOM. JAP. *Yezo-yachisuge*.

HAB. *Yezo*. Iburi.

DISTRIB. Endemic.

430. *Carex appendiculata* Kuek. in Bull. Herb. Boiss. 2 sér. IV. 54, et Cyp.-Car. 338; Hult. Fl. Kamtch. I. 187; Kom. Fl. Penins. Kamtsch. I. 239.

Carex acuta var. *appendiculata* Trautv. Florul. Ochot. 100.

NOM. JAP.

HAB. *Yezo*. Iburi.

Southern Saghalien. Shikka.

DISTRIB. Saghalien, Yezo, Kamtchatka, Ochotsk, Amur, Ussuri and N. Korea.

431. *Carex semiplena* Kük. in Bull. Herb. Boiss. 2 sér. XI. 1018, et Cyp.-Car. 339; Mak. & Nem. Fl. Jap. 1368.

Carex caulorrhiza Lév. et Vnt. in Bull. Acad. Géogr. Bot. 3 sér. XI. 179; Matsum. Ind. Pl. Jap. II. 1: 104.

NOM. JAP.

HAB. *Yezo*. Rebun, Rishiri.

Southern Saghalien. Shikka.

DISTRIB. Endemic species.

432. *Carex aphyllopus* Kük. in Bull. Herb. Boiss. 2 sér. IV. 53, et Cyp.-Car. 340; Matsum. Ind. Pl. Jap. II. 1: 99; Mak. & Nem. Fl. Jap. 1330.

NOM. JAP. *Tateyama-suge*.

HAB. *Yezo*. Rishiri.

DISTRIB. Yezo, Honshu and Shikoku.

433. *Carex heterolepis* Bunge, Enum. Pl. China Bor. 69; Forb. et Hemsl. Ind. Fl. Sin. III. 289, p. p.; Kük. Cyp.-Car. 341; Nakai, Fl. Korea. II. 310; Mak. & Nem. Fl. Jap. 1345.

Carex trappistarum Franch. in Morot, Jour. de Bot. IV. 320, et in Car. As.-Or. 133; Forb. et Hemsl. Ind. Fl. Sin. III. 315.

Carex marginaria Franch. in Bull. Soc. Philom. Paris 8 sér. VII. 40 et Car. As.-Or. 133.

Carex latinervia Lévl. et Vnt. in Bull. Acad. Géogr. Bot. 3 sér. X. 219.

NOM. JAP.

HAB. *Yezo*. Iburi, Ishikari.

DISTRIB. *Yezo*, Honshu, Kyushu, Korea and North China.

434. *Carex otaruensis* Franch. in Bull. Soc. Philom. Paris 8 sér. VII. 34, et Car. As.-Or. 122; Kük. Cyp.-Car. 342.

Carex cardioglochis Lévl. et Vnt. in Bull. Acad. Géogr. Bot. 3 sér. XI. 31.

Carex penicularia Lévl. et Vnt. l. c. 110.

NOM. JAP. *Otaru-suge*.

HAB. *Yezo*. Shiribeshi.

DISTRIB. *Yezo*, Honshu, Shikoku and Kyushu.

435. *Carex forsicula* Fr. et Sav. Enum. Pl. Jap. II. 131 et 557; Franch. in Nouv. Arch. Mus. Paris 3 sér. VIII. t. 8, f. 2, et Car. As.-Or. 135; Makino, in Tokyo Bot. Mag. XIV. 229; Lévl. et Vnt. in Bull. Soc. Bot. X. 218; Forb. et Hemsl. Ind. Fl. Sin. III. 286; Matsum. Ind. Pl. Jap. II. 1: 110; Kük. Cyp.-Car. 342; Nakai, Fl. Korea. II. 311.

Carex notha Baker et Moore, in Jour. Linn. Soc. Bot. XVII. 389, non Kunth.

NOM. JAP. *Tanigawa-suge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Tokachi, Kushiro, Kitami.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Korea, South Manchuria and North China.

436. *Carex sadoensis* Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 42, et Car. As.-Or. 136; Matsum. Ind. Pl. Jap. II. 1: 131; Kük. Cyp.-Car. 344; Mak. & Nem. Fl. Jap. 1366.

NOM. JAP. *Sado-suge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Kitami.

Southern Saghalien. Tomarioro, Toyohara.

DISTRIB. Saghalien, *Yezo* and Honshu.

437. *Carex incisa* Boott, in A. Gray, Pl. Jap. 327, et Illustr. IV. 188; Fr. et Sav. Enum. Pl. Jap. II. 128; Franch. Car. As.-Or. 120; Lévl. et Vnt.

in Bull. Soc. Géogr. Bot. X. 202; Matsum. Ind. Pl. Jap. II. 1: 114; Kük. Cyp.-Car. 349; Mak. & Nem. Fl. Jap. 1346.

Carex Textori Miq. Prol. Fl. Jap. 83.

NOM. JAP. *Tani-suge*, *Kawara-suge*.

HAB. *Yezo*. Oshima, Iburi, Ishikari, Teshio, Kitami, Kushiro, Nemuro.

DISTRIB. *Yezo* and Honshu.

438. *Carex Maximowiczii* Miq. Prol. Fl. Jap. 82; Nakai, Veg. Mt. Apoi, 75.

Carex pruinosa Boott subsp. *Maximowiczii* Kük. Cyp.-Car. 353; Mak. & Nem. Fl. Jap. 1362.

Carex picta Boott, in A. Gray, Bot. Jap. 418, non Steud.

Carex pruinosa Boott, var. β . Boott, Ill. IV. 198; Franch. Car. As.-Or. 155; Lévl. et Vnt. in Bull. Soc. Géogr. X. 226; Matsum. Ind. Pl. Jap. II. 1: 128.

NOM. JAP. *Goso*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Ishikari, Nemuro.

Kuriles. Kunashiri.

DISTRIB. *Kuriles*, *Yezo*, Honshu, Shikoku, Kyushu, Korea and China.

439. *Carex cincta* Franch. in Bull. Soc. Philom. Paris 8 sér. VII. 33; Matsum. Ind. Pl. Jap. II. 1: 105; Kük. Cyp.-Car. 353; Mak. & Nem. Fl. Jap. 1336.

Carex phacta Lévl. et Vnt. in Bull. Acad. Géogr. Bot. 3 sér. X. 199, non Spreng.

Carex lepidopristis Lévl. et Vnt. l. c. 198, et XI. 60.

NOM. JAP. *Hime-goso*.

HAB. *Yezo*. Iburi, Ishikari.

DISTRIB. *Yezo*, Honshu, Kyushu and Korea.

440. *Carex cernua* Boott, Ill. IV. 171, *t.* 578; Hook. f. Fl. Brit. Ind. VI. 708; Forb. et Hemsl. Ind. Fl. Sin. III. 279; Lévl. et Vnt. in Bull. Acad. Géogr. Bot. 3 sér. X. 197, p. p.; Matsum. Ind. Pl. Jap. II. 1: 105; Kük. Cyp.-Car. 353; Mak. & Nem. Fl. Jap. 1335.

Carex phacota Franch. Car. As.-Or. 117, non Spr.

Carex Schuhriana Lévl. et Vnt. l. c. XI. 59.

Carex dimorpholepis Miq. Prol. Fl. Jap. 82; Fr. et Sav. Enum. Pl. Jap. II. 127; Franch. Car. As.-Or. 118.

NOM. JAP. *Aze-narukosuge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Kitami.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Korea, China, Assam, Tonkin and Himalaya.

441. *Carex Prescottiana* Boott, in Proc. Linn. Soc. I. 286, et Trans. Linn. Soc. XX. 135 et Ill. I. 45, *t.* 115, partim; Hook. f. Fl. Brit. Ind. VI. 710; Franch. Car. As.-Or. 122; Matsum. Ind. Pl. Jap. II. 1: 127; Kük. Cyp.-Car. 355; Mak. & Nem. Fl. Jap. 1361.

Carex flabellata Lévl. et Vnt. in Bull. Acad. Géogr. Bot. 2 sér. XI. 65.

NOM. JAP.

HAB. *Yezo*. Oshima, Ishikari.

DISTRIB. *Yezo*, Honshu, Kyushu and Himalaya.

442. *Carex shimidzensis* Franch. in Bull. Soc. Philom. Paris 8 sér. VII. 33; Matsum. Ind. Pl. Jap. II. 1: 132; Kük. Cyp.-Car. 356; Mak. & Nem. Fl. Jap. 1368.

Carex cernua Franch. Car. As.-Or. 116; Lévl. et Vnt. in Bull. Acad. Géogr. Bot. 3 sér. X. 197, partim, non Boott.

NOM. JAP. *Azuma-naruko*, *Miyama-naruko-suge*.

HAB. *Yezo*. Oshima, Shiribeshi, Okushiri, Ishikari.

DISTRIB. *Yezo*, Honshu and Korea.

var. ***nervulosa*** Kük. l. c. 357.

Carex nervulosa Franch. Car. As.-Or. 120.

NOM. JAP.

HAB. *Yezo*. Shiribeshi, Iburi.

DISTRIB. Endemic.

443. *Carex subspathacea* Wormskj. Fl. Dan. IX. 4, *t.* 1530; Ledeb. Fl. Ross. IV. 304; Lange, Consp. Fl. Groenl. ed. 2. 140; Fr. Schm. Fl. Sachal. 196; Britt. & Br. Ill. Fl. I. 310; Kük. Cyp.-Car. 361; Miyabe &

Miyake, Fl. Saghal. 538; Miyabe & Kudo, Mater. Fl. Hokkaido, n. 138, in Trans. Sapporo Nat. Hist. Soc. IX. 63; Kudo, Rep. Veg. N. Saghal. 70; Mak. & Nem. Fl. Jap. 1371.

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

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

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

NOM. JAP. *Hime-ushiosuge*.

HAB. *Yezo*. Kushiro.

Southern Saghalien. Odomari, Toyohara, Shikka.

Northern Saghalien. Alexandrowsk, Pronge-Baikal.

DISTRIB. Saghalien, Yezo, Northern Coast of Europe, Asia and N. America.

444. *Carex Ramenskii* Kom. in Fedde, Repert. XIII. 164; Hult. Fl. Kamtch. I. 188.

NOM. JAP.

HAB. *Saghalien*. (fide Hultén.)

DISTRIB. Saghalien and Kamtchatka.

445. *Carex Lyngbyei* Hornem. Fl. Dan. *t.* 1888; Kunth, Enum. Pl. II. 523; Kük. Cyp.-Car. 363 et Car. Sachal. 36; Takeda, Fl. Shikotan, 493; Miyabe & Miyake, Fl. Sachal. 36; Takeda, Fl. Shikotan, 493; Miyabe & Miyabe, Fl. Saghal. 538; Kudo, Fl. Paramushir, 79, Contr. Fl. N. Saghal. 24, et Rep. Veg. N. Saghal. 71; Kom. Fl. Penins. Kamtsch. 240.

subsp. ***cryptocarpa*** Hult. Fl. Kamtch. I. 188.

Carex cryptocarpa C. A. Mey. in Mém. Acad. St.-Pétersb. I. 226, *t.* 14; Kunth, Enum. Pl. II. 416; Ledeb. Fl. Ross. IV. 313; Trautv. et Mey. Fl. Ochot. 100; Fr. Schm. Fl. Sachal. 197; Boott, Ill. I. 64, *t.* 171; Britt. & Br. Ill. Fl. I. 314; Franch. Car. As.-Or. 126; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. X. 217; Matsum. Ind. Pl. Jap. II. 1: 106.

NOM. JAP. *Yarame-suge*, *Yezo-suge*.

NOM. AINU. *Petpaushi*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Rebun, Kitami, Tokachi, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Etorofu, Urup, Paramushir.

Southern Saghalien. Odomari, Honto, Mauka, Tomarioro, Ushoro, Toyohara, Motodomari, Shikka.

Northern Saghalien. Alexandrowsk, Tymi, Chaiwo, Pronge-Baikal, Oha, Schmidt-Penn.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Kyushu, Manchuria, Ochotsk, Kamtschatka and N. W. part of North America.

446. *Carex prionocarpa* Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 87, et Nouv. Arch. Mus. Paris, 3 sér. VIII. t. 8, f. 1, et IX. 128; Kudo, Contr. Fl. N. Saghal. 24, et Rep. Veg. N. Saghal. 71.

Carex Lyngbyei var. *prionocarpa* Kük. Cyp.-Car. 364.

NOM. JAP. *Karafuto-yaramesuge*.

HAB. *Yezo.* Nemuro.

Southern Saghalien. Odomari, Toyohara, Shikka.

Northern Saghalien. Tymi, Nyiwo.

DISTRIB. Saghalien and Yezo.

447. *Carex Middendorffii* Fr. Schm. Fl. Amg.-Burej. 70, et Fl. Sachal. 197, t. VII, f. 1-5; Franch. Car. As.-Or. 157; Matsum. Ind. Pl. Jap. II. 1: 120; Kük. Cyp.-Car. 364 et Car. Sachal. 36; Miyabe & Miyake, Fl. Saghal. 539; Kudo, Fl. Paramushir, 80, Contr. Fl. N. Saghal. 24, et Rep. Veg. N. Saghal. 71; Mak. & Nem. Fl. Jap. 1354; Hult. Fl. Kamtsch. I. 190; Kom. Fl. Penins. Kamtsch. I. 242.

Carex Middendorffiana Meinsh. in Act. Hort. Petrop. XVIII. 344.

Carex levicaulis Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 11, et Nouv. Arch. Mus. Paris, 3 sér. VIII. 13, f. 2, et Car. As.-Or. 157; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. X. 227; Matsum. Ind. Pl. Jap. II. 1: 118.

NOM. JAP. *Horomui-suge Kuro-suge, Tomari-suge*.

HAB. *Yezo.* Oshima, Ishikari, Nemuro.

Kuriles. Kunashiri, Etorofu, Urup, Paramushir.

Southern Saghalien. Odomari, Tomarioro, Toyohara, Shikka.

Northern Saghalien. Alexandrowsk, Tim, Tymi, Nyiwo, Oha, Schmidt-Penn.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Shikoku, Amur, Primorsk and Kamtschatka.

448. *Carex tuminensis* Kom. in Act. Hort. Petrop. XVIII. 444, et Fl. Mansh. I. 368; Kük. Cyp.-Car. 369; Nakai, Fl. Korea. II. 313; Miyabe & Miyake, Fl. Saghal. 539; Kudo, Contr. Fl. N. Saghal. 24, et Rep. Veg. N. Saghal. 71; Mak. & Nem. Fl. Jap. 1374; Hult. Fl. Kamtch. I. 191; Kom. Fl. Penins. Kamtsch. I. 243.

NOM. JAP. *Mitsumata-suge*, *Hoki-kasasuge*.

HAB. *Southern Saghalien*. Shikka.

Northern Saghalien. Tim.

DISTRIB. Saghalien, Korea, Amur, Primorsk, Udscoj and Kamtchatka.

449. *Carex soyaensis* Kük. in Bull. Herb. Boiss. 2 sér. IV. 53 et Cyp.-Car. 388; Kudo, Contr. Fl. N. Saghal. 24, et Rep. Veg. N. Saghal. 71.

NOM. JAP. *Soya-suge*.

HAB. *Yezo*. Shiribeshi, Iburi, Kitami.

Southern Saghalien. Toyohara.

Northern Saghalien. Tymi.

DISTRIB. *Yezo* and Saghalien.

450. *Carex Augustinowiczii* Meinsh. apud Korsh. Pl. Amur. 411, et in Act. Hort. Petrop. XVIII. 345; Franch. Car. As.-Or. 132; Kom. Fl. Mansh. I. 370; Matsum. Ind. Pl. Jap. II. 1: 100; Kük. Cyp.-Car. 389, et Car. Sachal. 36; Nakai, Fl. Korea. II. 313; Miyabe & Miyake, Fl. Saghal. 450; Mak. & Nem. Fl. Jap. 1331; Hult. Fl. Kamtch. I. 191; Kom. Fl. Penins. Kamtsch. I. 247.

Carex bidentula Franch. in Bull. Soc. Philom. Paris, 8 sér. VII, 41, et Car. As.-Or. 132; Forb. et Hemsl. Ind. Fl. Sin. III. 273; Matsum. Ind. Pl. Jap. II. 1: 100.

Carex eleusinoides var. *flaccidior* Fr. Schm. Fl. Sachal. 196.

Carex flaccidior Miyabe et Kudo, Mater. Fl. Hokkaido n. 111, in Trans. Sapporo Nat. Hist. Soc. VII. 28; Kudo, Fl. Paramushir, 80, et Contr. Fl. N. Saghal. 24, et Rep. Veg. N. Saghal. 72.

NOM. JAP. *Hiragishi-suge*, *Yezo-azesuge*, *Yachi-bozu*.

NOM. AINU. *Takpe-kina*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Teshio, Tokachi, Kushiro, Kitami.

Kuriles. Kunashiri, Etorofu, Paramushir.

Southern Saghalien. Odomari, Mauka, Toyohara, Shikka.

Northern Saghalien. Alexandrowsk, Tim, Tymi.

DISTRIB. Saghalien, Kuriles, Yezo, Korea, Manchuria, Amur, Primorsk, Ussuri and Kamtchatka.

451. *Carex Buxbaumii* Wahlenb. in Vet. Acad. Handl. Stockholm XXIV. 163; Bong. Vég. de Sitcha, 169; Kunth, Enum. Pl. II. 432; Ledeb. Fl. Ross. IV. 285; Boott, Ill. IV. 136, *t.* 438; Meinsh. in Act. Hort. Petrop. XVIII. 354; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 105; Kük. Cyp.-Car. 393; Koidz. Pl. Sachal. 30; Miyabe & Miyake, Fl. Saghal. 540; Kudo, Fl. Paramushir, 80; Mak. & Nem. Fl. Jap. 1334.

Carex tarumensis Franch. in Full. Soc. Philom. Paris, 8 sér. VII. 37, et Car. As.-Or. 147; Matsum. Ind. Pl. Jap. II. 1: 135.

?*Carex fusca* All. Fl. Pedem. II. 269; Bailey, in Mem. Torr. Bot. Club. I. 63; Britt. & Br. Illust. Fl. I. 307.

Carex picea Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 35, et Car. As.-Or. 151; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. X. 224.

NOM. JAP. *Tarumai-suge*.

HAB. *Yezo.* Oshima, Iburi, Kushiro.

Kuriles. Paramushir, Shumushu.

Southern Saghalien. Odomari, Toyohara, Motodomari.

DISTRIB. Saghalien, Yezo, Kuriles, Siberia, Europe, Africa, North America and Australia.

452. *Carex Gmelini* Hook. et Arn. Bot. Beech. Voy. III. 118, *t.* 27; Kunth, Enum. Pl. II. 434; Ledeb. Fl. Ross. IV. 288; Trautv. et Mey. Fl. Ochot. 99; Rgl. et Til. Fl. Ajan. 125; Boott, Ill. IV. 137, *t.* 433; Maxim. Prim. Fl. Amur. 309; Fr. Schm. Fl. Sachal. 193; Franch. Car. As.-Or. 151; Miyabe, Fl. Kuril. 262; Kom. Fl. Mansh. I. 369; Lévl. et Vnt. in Bull. Soc. Geogr. Bot. X. 224; Matsum. Ind. Pl. Jap. II. 1: 112; Kük. Cyp.-Car. 369, et Car. Sachal. 36; Koidz. Pl. Sachal. 29; Takeda, Fl. Shikotan, 493; Miyabe & Miyake, Fl. Saghal. 540; Kudo, Fl. Paramushir, 80, Contr. Fl. N. Saghal. 25, et Rep. Veg. N. Saghal. 72; Mak & Nem. Fl. Jap. 1344; Hult. Fl. Kamtch. I. 192; Kom. Fl. Penins. Kamtsch. I. 248.

Carex laticuspis Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 38.

NOM. JAP. *Nemuro-suge*, *Hidaka-suge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Kitami, Rebun, Rishiri, Tokachi, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Etorofu, Urup, Rashua, Paramushir, Shumushu.

Southern Saghalien. Odomari, Mauka, Tomarioro, Ushoro, Toyohara, Motodomari, Shikka.

Northern Saghalien. Alexandrowsk, Pronge-Baikal, Oha, Schmidt-Penn.

DISTRIB. Saghalien, Kuriles, Yezo, Manchuria, Amur, Primorsk, Ajan, Kamtchatka, Pribilof Isls., Unalaska and Sitcha.

453. *Carex atrata* L. Sp. Pl. ed. 1, 976; Kunth, Enum. Pl. II. 433; Boott, Illustr. III. 114; Meinsh. in Act. Hort. Petrop. XVIII. 347; Kom. Fl. Manshur. I. 372; Aschers. u. Graebn. Synop. Mitteleurop. Fl. II. 2: 108; Kuek. Cyp.-Car. 396, f. 62, *D-G*; Nakai, Veg. Daisetsusan Mts. 58.

NOM. JAP. *Kurobo-suge*.

HAB. *Yezo*. Iburi, Ishikari, Hidaka.

DISTRIB. Yezo, Manchuria, Siberia, Europe and North America.

454. *Carex Mertensii* Prescott, apud Bong. Vég. Sitcha, 168; Ledeb. Fl. Ross. IV. 287; Boott, in Hook. Fl. Bor.-Amer. II. 217, t. 217, et Ill. IV. 212; Boeck. in Linnaea XL. 401; Bailey, in Proc. Amer. Acad. XXII. 77; Franch. in Nouv. Arch. Mus. Paris, 3 sér. IX. 150, cf. VIII. t. 13, f. 1; Piper, Fl. Washingt. 170; Kük. Cyp.-Car. 400.

var. ***urostachys*** Kük. Cyp.-Car. 401; Miyabe & Kudo, Mater. Fl. Hokkaido n. 44, in Trans. Sapporo Nat. Hist. Soc. V. 150; Mak. & Nem. Fl. Jap. 1354.

Carex urostachys Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 35; Nakai, Veg. Daisetsusan Mts. 59.

Carex Mertensii Franch. Car. As.-Or. 150, pl. 13, f. 1; Matsum. Ind. Pl. Jap. II. 1: 120, non Prescott.

NOM. JAP. *Kinchaku-suge*, *Iwaki-suge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Kushiro.

Kuriles. Kunashiri.

DISTRIB. *var.* Kuriles, Yezo and Honshu: *sp. typ.* Pacific North America.

455. *Carex angustisquama* Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 39, et in Nouv. Arch. Mus. Paris, 3 sér. IX. 152; Lévl. et Vnt. in Bull. Acad. Intern. Géogr. Bot. X. 225; Matsum. Ind. Pl. Jap. II. 1: 99; Kük. Cyp.-Car. 410; Mak. & Nem. Fl. Jap. 1330.

NOM. JAP. *Yama-tanukiran*.

HAB. *Yezo*. Without locality, (ex Matsumura).

DISTRIB. *Yezo* and Honshu.

456. *Carex Tolmiei* Boott, in Hook. Fl. Bor.-Amer. II. 224, et Illustr. II. 110, partim, *t.* 299; C. B. Clarke, in Journ. Linn. Soc. XXXV. 403; Th. Holm, in Amer. Journ. Sc. XIV. 420; Kuek. Cyp.-Car. 411; Franch. in Nouv. Arch. Mus. Hist. Nat. Sér. 3, IX. 131; Hult. Fl. Kamtch. I. 193; Kom. Fl. Penins. Kamtsch. I. 249.

Carex macrochaeta *var. paramushirensis* Kudo, Fl. Paramushir, 81.

NOM. JAP. *Chishima-miyamakurosuge*.

HAB. *Kuriles*. Paramushir.

DISTRIB. Kuriles, Kamtchatka, Chuktsch-Penins., Ajan and N. W. part of N. America.

457. *Carex macrochaeta* C. A. Mey. in Mém. Acad. St.-Pétersb. I. 224, *t.* 13; Bong. Vég. Sitcha, 169; Kunth, Enum. Pl. II. 519; Ledeb. Fl. Ross. IV, 305; Fr. Schm. Fl. Sachal. 195; Kük. Cyp.-Car. 412; Miyabe & Miyake, Fl. Saghal. 541; Kudo, Rep. Veg. N. Saghal. 72; Mak. & Nem. Fl. Jap. 1352; Hult. Fl. Kamtch. I. 195; Kom. Fl. Penins. Kamtsch. I. 250.

NOM. JAP. *Karafuto-miyamakurosuge*, *Miyama-tanukiran*.

HAB. *Kuriles*. Shikotan, Alaid.

Southern Saghalien. Odomari, Shikka.

Northern Saghalien. Alexandrowsk.

DISTRIB. Saghalien, Kuriles, Chuktschland, St. Lawrence Bay, Kamtchatka, Copper Island, Aleutian Isls. and N. W. part of North America.

458. *Carex flavocuspis* Fr. et Sav. Enum. Pl. Jap. II. 147, 574; Franch. Car. As.-Or. 143; Matsum. Ind. Pl. Jap. II. 1: 109; Nakai, Veg. Mt. Apoi, 75.

Carex macrochaeta C. A. Mey. subsp. *flavocuspis* Kük. Cyp.-Car. 414; Mak. & Nem. Fl. Jap. 1352.

Carex gansuensis Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 35, et Car. As.-Or. 152, t. 3, f. 2; Matsum. Ind. Pl. Jap. II. 1: 111.

NOM. JAP. *Miyama-kurosuge*.

HAB. *Yezo*. Shiribeshi, Iburi, Hidaka, Ishikari, Rishiri, Tokachi, Nemuro.

Kuriles. Kunashiri, Etorofu, Shimushir, Paramushir, Shumushu.

DISTRIB. Kuriles, Yezo and Honshu.

459. *Carex scita* Maxim. in Mél. Biol. XII. 564; Franch. Car. As.-Or. 143; Matsum. Ind. Pl. Jap. II. 1: 132; Kuek. Cyp.-Car. 414; Takeda, Fl. Shikotan, 494; Miyabe & Miyake, Fl. Saghal. 541; Mak. & Nem. Fl. Jap. 1367; Hult. Fl. Kamtch. I. 195; Kom. Fl. Penins. Kamtsch. I. 250.

Carex ciliolata Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 38.

Carex discuspis Lévl. et Vnt. in Bull. Acad. Intern. Géogr. Bot. 3 sér. X. 222, non Franch.

NOM. JAP. *Mashike-suge*.

HAB. *Yezo*. Shiribeshi, Iburi, Ishikari, Teshio, Rebun, Rishiri, Tokachi.

Kuriles. Shikotan, Etorofu, Urup, Shimushir, Paramushir, Shumushu.

Southern Saghalien. Todomoshiri, Toyohara.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu and Kamtchatka.

var. ***scabrinervia*** Kuek. Cyp.-Car. 415; Miyabe & Miyake, Fl. Saghal. 542; Mak. & Nem. l. c.

Carex scabrinervia Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 37, et Car. As.-Or. 144; Matsum. Ind. Pl. Jap. II. 1: 132.

Carex xanthathera Franch. l.c. 38, et l.c. 144, t. 4, f. 2.

Carex urolepis Franch. l.c. 36.

NOM. JAP. *Shikotan-suge*.

HAB. *Yezo*. Kitami, Rebun, Rishiri, Nemuro.

Kuriles. Shikotan, Etorofu, Urup.

Southern Saghalien. Todomoshiri, Motodomari.

DISTRIB. Endemic.

var. **riishirensis** Kuek. Cyp.-Car. 414; Miyabe & Miyake, Fl. Saghal. 542; Mak. & Nem. Fl. Jap. 1367.

Carex riishirensis Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 88, et Car. As.-Or. 145; Matsum. Ind. Pl. Jap. II. 1: 131.

NOM. JAP. *Rishiri-suge*.

HAB. *Yezo*. Ishikari, Rishiri.

DISTRIB. Endemic.

460. *Carex karaginensis* Meinsh. in Act. Horti Petrop. XVIII. 351; Kom. Fl. Penins. Kamtsch. I. 251.

Carex scita var. *karaginensis* Kuek. Cyp.-Car. 415; Hult. Fl. Kamtch. 1. 196.

Carex scita f. *karaginensis* Kudo, Fl. Paramush. 81; Tatewaki, Plants Isl. Alaid, in Trans. Sapporo Nat. Hist. Soc. IX. 156.

Carex podocarpa f. *typica* Kjellm. Komm. Faner. Fl. 305.

Carex podocarpa Fedtsch. Fl. Îl. Comm. 116.

NOM. JAP. *Kitachishima-suge*.

HAB. *Kuriles*. Paramushir, Shumushu, Alaid.

DISTRIB. Northern Kuriles, Kamtchatka and Ochotsk.

461. *Carex mandshurica* Meinsh. in Bot. Centralb. LV. 197, et in Acta Horti Petrop. XVIII. 394; Kom. Fl. Mansh. I. 394; Kuek. Cyp.-Car. 434.

NOM. JAP. *Manshu-suge*.

HAB. *Southern Saghalien*. Honto.

DISTRIB. Saghalien, Ussuri and N. Korea.

462. *Carex globularis* L. Sp. Pl. ed. 1. 976; Ledeb. Fl. Ross. IV. 304; Kunth, Enum. Pl. II. 441; Rgl. et Til. Fl. Ajan. 125; Maxim. Prim. Fl. Amur. 313; Boott, Ill. IV. 209; Fr. Schm. Fl. Sachal. 196; Meinsh. in Act. Hort. Petrop. XVIII. 399; Kom. Fl. Manch. I. 397; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 118; Kük. Cyp.-Car. 437, et Car. Sachal. 36; Hegi, Ill. Fl. Mittel-Europ. II. 88; Nakai, Fl. Korea. II. 316; Miyabe & Miyake, Fl. Saghal. 541; Kudo, Contr. Fl. N. Saghal. 25, et Rep. Veg. N. Saghal. 72; Mak. & Nem. Fl. Jap. 1343; Hult. Fl. Kamtch. I. 197; Kom. Fl. Penins. Kamtsch. I. 252.

NOM. JAP. *Tonakai-suge*, *Tamatsuzuri-suge*.

HAB. *Southern Saghalien*. Odomari, Toyohara, Shikka.

Northern Saghalien. Alexandrowsk, Tymi, Nyiwo, Schmidt-Penn.

DISTRIB. Saghalien, Korea, Manchuria, Amur, Ajan, Kamtchatka, Siberia and Europe.

463. *Carex gifuensis* Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 47, et Car. As.-Or. 189; Matsum. Ind. Pl. Jap. II. 1: 112; Kük. Cyp.-Car. 442 et Car. Sachal. 36; Nakai, Fl. Korea. II. 316; Miyabe & Miyake, Fl. Saghal. 543; Mak. & Nem. Fl. Jap. 1343.

NOM. JAP. *Kuro-hinasuge*.

HAB. *Southern Saghalien*. Odomari, Toyohara.

DISTRIB. Saghalien, Honshu and Korea.

464. *Carex oxyandra* Kudo, Rep. Veg. N. Saghal. 72; Ohwi, in Mem. Coll. Sc. Kyoto Imp. Univ. Ser. B. V. 275.

Carex montana var. *oxyandra* Fr. et Sav. Enum. Pl. Jap. II. 141, 565.

Carex pilulifera Wright, in A. Gray, Bot. Jap. 417; Fr. et Sav. Enum. Pl. Jap. II. 141, non L.

Carex Wrightii Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 47, et Car. As.-Or. 190; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. X. 279; Matsum. Ind. Pl. Jap. II. 1: 138; Kük. Cyp.-Car. 433; Takeda, Fl. Shikotan, 594; Mak. & Nem. Fl. Jap. 1376, non Dewey.

Carex stolonifera Lévl. et Vnt. in Bull. Acad. Géogr. Bot. 3 sér. XI. 27.

NOM. JAP. *Himesuge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Kitami, Rebun, Rishiri, Kushiro.

Kuriles. Kunashiri, Shikotan, Etorofu.

Southern Saghalien. Toyahara.

Northern Saghalien. Chaiwo.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Shikoku and Kyushu.

465. *Carex amblyolepis* Trautv. et Mey. Fl. Ochot. 99; Maxim. Prim. Fl. Amur. 312; Meinsh. in Act. Hort. Petrop. XVIII. 398; Kudo, Fl. Paramushir, 82, Contr. Fl. N. Saghal. 25, et Rep. Veg. N. Saghal. 73; Hult. Fl. Kamtch. I. 198; Kom. Fl. Penins. Kamtsch. I. 253.

Carex pennsylvanica Lam. var. *amblyolepis* Kük. Cyp.-Car. 466.

NOM. JAP. *Nuiwo-suge*.

HAB. *Kuriles*. Paramushir.

Southern Saghalien. Toyohara.

Northern Saghalien. Nyiwo.

DISTRIB. Saghalien, Kuriles, Kamtchatka, Ochotsk, Amur, Ussuri and Siberia.

466. *Carex subumbellata* Meinsh. in Act. Hort. Petrop. XVIII. 393; Kük. Cyp.-Car. 453; Miyabe & Miyake, Fl. Saghal. 543; Mak. & Nem. Fl. Jap. 1371.

NOM. JAP. *Miyake-suge*.

HAB. *Southern Saghalien*. Ushoro.

Northern Saghalien. Alexandrowsk.

DISTRIB. An endemic species.

467. *Carex caryophyllea* Latour. Chlor. Lugd. 27; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 123; Kük. Cyp.-Car. 463; Kudo, Fl. Paramushir, 82; Kom. Fl. Penins. Kamtsch. I. 254; Tatewaki, in Trans. Sapporo Nat. Hist. Soc. IX. 157.

Carex praecox Jacq. Fl. Austr. V. 23; Ledeb. Fl. Alt. 226 et Fl. Ross. IV. 301; Kunth, Enum. Pl. II. 429; Boott, Ill. IV. 216; Meinsh. in Act. Hort. Petrop. XVIII. 397, non Schreb.

Carex verna Chaix, in Vill. Hist. Pl. Dauph. II. 204; Hult. Fl. Kamtch. I. 199.

NOM. JAP. *Chishima-shibasuge*.

HAB. *Kuriles*. Paramushir, Alaid.

DISTRIB. N. Kuriles, Kamtchatka, Amur, Siberia, Caucasus, Armenia, Turkestan, Asia Minor, Europe and North America.

468. *Carex nervata* Fr. et Sav. Enum. Pl. Jap. II. 141, 566.

Carex caryophyllea Latour. subsp. *nervata* Kük. Cyp.-Car. 465; Matsum. Ind. Pl. Jap. II. 1: 104; Mak. & Nem. Fl. Jap. 1335.

Carex praecox Miq. in Ann. Mus. Lugd. Bat. II. 149; Franch. Car. As.-Or. 186, non Jacq.

Carex homiolepis Fr. et Sav. Enum. Pl. Jap. II. 567.

Carex setosa Fr. et Sav. Enum. Pl. Jap. II. 142, non Boott.

Carex multipes Lévl. et Vnt. in Bull. Acad. Géogr. Bot. 3 sér. X. 271.

Carex multifiliculmis Lévl. et Vnt. in Bull. Acad. Géogr. Bot. XIX. 34.

NOM. JAP. *Shibasuge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Kitami, Kushiro, Nemuro.

Kuriles. Etorofu.

DISTRIB. *Kuriles*, *Yezo*, Honshu, Kyushu, Korea and Amur.

form. **dissita** (Franch.)

Carex caryophyllea Latour. subsp. *nervata* Kük. form. *dissita* Franch. apud Kük. Cyp.-Car. 466, et Car. Sachal. 36; Lévl. in Fedde, Repert. VII. 104, p. p.; Miyabe & Miyake, Fl. Saghal. 544.

Carex multifiliculmis Lévl. et Vnt. in Fedde, Repert. VII. 104, p. p.

HAB. *Yezo*. Oshima, Iburi.

Southern Saghalien. Odomari, Toyohara, Shikka.

DISTRIB. *Saghalien*, *Yezo* and Honshu.

form. **leiocarpa** (Franch.)

Carex caryophyllea subsp. *nervata* f. *leiocarpa* Franch. apud Kük. Cyp.-Car. 466.

HAB. *Yezo*. Kushiro, Nemuro.

DISTRIB. *Yezo* and Honshu.

469. *Carex microtricha* Franch. Car. As.-Or. 189; Lévl. et Vnt. in Bull. Acad. Géogr. Bot. 3 sér. X. 279; Matsum. Ind. Pl. Jap. II. 1: 120; Nakai, Veg. Daisetsusan Mts. 59.

Carex caryophyllea Latour. subsp. *nervata* Kük. var. *microtricha* Kük. Cyp.-Car. 466.

Carex Heribaudiana Lévl. et Vnt. l.c. 275; Matsum. Ind. Pl. Jap. II. 1: 113.

NOM. JAP. *Yezo-shibasuge*.

HAB. *Yezo*. Iburi, Ishikari, Rebun, Rishiri, Kushiro.

Southern Saghalien. Shikka.

DISTRIB. *Saghalien*, *Yezo* and Honshu.

470. **Carex squamoidea** Akiyama, in Journ. Facul. Sci. Hokkaido Imp. Univ. Ser. V. I. 2: 60, *pl.* 13, *f.* 7.

NOM. JAP. *Iburi-suge*.

HAB. *Yezo*. Iburi.

DISTRIB. Endemic.

471. **Carex sabynensis** Less. apud Kunth, Enum. Pl. II. 440; Meinsh. in Act. Hort. Petrop. XVIII. 396; Kom. Fl. Mansh. I. 395.

Carex umbrosa Host subsp. *sabynensis* Kük. Cyp.-Car. 468, et Car. Sachal. 36; Miyabe & Miyake, Fl. Saghal. 544; Mak. & Nem. Fl. Jap. 1374.

Carex pediformis var. *rostrata* Fr. Schm. Fl. Sachal. 194, non Maxim.

Carex kamikawensis Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 48, et Car. As.-Or. 188; Matsum. Ind. Pl. Jap. II. 1: 116.

Carex reticulmis Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 48, et Car. As.-Or. 188; Matsum. Ind. Pl. Jap. II. 1: 130.

Carex lucidula Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 48.

NOM. JAP. *Kamikawa-suge*, *Chosen-aosuge*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Ishikari, Kitami, Rebun, Kushiro.

Southern Saghalien. Todomoshiri, Odomari, Tomarioro, Ushoro, Toyohara.

DISTRIB. Saghalien, Yezo, Korea, Manchuria, Amur, Ajan and East Siberia.

472. **Carex yesoensis** Koidz. in Tokyo Bot. Mag. XXXII. 55; Mak. & Nem. Fl. Jap. 1377.

NOM. JAP.

HAB. *Yezo*. Ishikari.

DISTRIB. Endemic.

473. **Carex blepharicarpa** Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 46, et Car. As.-Or. 171; Lévl. et Vnt. in Bull. Acad. Géogr. Bot. X. 272; Matsum. Ind. Pl. Jap. II. 1: 101; Kük. Cyp.-Car. 468; Miyabe & Miyake, Fl. Saghal. 545; Mak. & Nem. Fl. Jap. 1332; Nakai, Veg. Mt. Apoi, 75.

Carex pediformis C. A. Mey. var. *pedunculata* Fr. Schm. Fl. Sachal. 194, non Maxim.

Carex polyrrhiza Fr. et Sav. Enum. Pl. Jap. II. 140, non Wall.

Carex dueensis Meinsh. in Act. Hort. Petrop. XVIII. 307.

Carex dueensis Meinsh. var. *rostrata* Meinsh. l.c.

Carex Hayatae Lévl. et Vnt. in Fedde, Repert. V. 240.

NOM. JAP. *Shojosuge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Kitami, Rebun.

Southern Saghalien. Odomari, Toyohara.

Northern Saghalien. Alexandrowsk.

DISTRIB. Saghalien, *Yezo* and Honshu.

form. **distenta** Kük. Car. Sachal. 36; Lévl. in Fedde, Repert. VII. 104.

HAB. *Southern Saghalien*. Odomari.

DISTRIB. Endemic form.

474. *Carex Royleana* Nees ex Wight, Contr. Bot. Ind. 127; Kunth, Enum. Pl. II. 441; Boott, Ill. I. 6, *t.* 19; Fr. et Sav. Enum. Pl. Jap. II. 138.

Carex leucochlora Bunge, in Mém. Acad. St.-Pétersb. II. 142; Miq. Prol. Fl. Jap. 81; Fr. et Sav. Enum. Pl. Jap. II. 136; Meinsh. in Act. Hort. Petrop. XVIII. 360.

Carex puberula Boott, in A. Gray, Narr. Exp. Perry II. 324; Miq. Prol. Fl. Jap. 80; Fr. et Sav. Enum. Pl. Jap. II. 136.

Carex breviculmis Boott, Ill. IV. 181, partim; Miq. Prol. Fl. Jap. 357; Fr. et Sav. Enum. Pl. Jap. II. 136; Kom. Fl. Mansh. I. 376; Palib. Consp. Fl. Korea. III. 22; Hook. f. Fl. Brit. Ind. VI. 764.

Carex breviculmis R. Br. subsp. *Royleana* Kük. Cyp.-Car. 469; Matsum. Ind. Pl. Jap. II. 1: 102; Nakai, Fl. Korea. II. 318; Mak. & Nem. Fl. Jap. 1332.

NOM. JAP. *Aosuge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Kushiro.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Liukiu, Formosa, Korea, Manchuria, Amur, China, India and Himalaya.

form. **Wardiana** (Lévl. et Vnt.)

Carex Wardiana Lévl. et Vnt. in Bull. Acad. Intern. Géogr. Bot. X. 276.

Carex Fernaldiana Lévl. et Vnt. l.c.

Carex breviculmis R. Br. subsp. *Royleana* Kük. form. *Wardiana* Kük.

Cyp.-Car. 470.

NOM. JAP. *Hime-aosuge*.

HAB. *Yezo*. Rebun.

DISTRIB. *Yezo*, Honshu and Liukiu.

475. *Carex geantha* Ohwi, in Mem. Coll. Sci., Kyoto Imp. Univ., Ser. B., V. 3: 265.

Carex breviculmis R. Br. subsp. *Royleana* Kük. var. *Kingiana* Kük. Cyp.-Car. 470, p. p.

NOM. JAP. *Hagakure-suge*.

HAB. *Yezo*. Shiribeshi, Iburi, Ishikari, Tokachi.

Kuriles. Etorofu.

DISTRIB. *Kuriles*, *Yezo* and Honshu.

476. *Carex tenuissima* Boott, in Proc. Linn. Soc. I. 288; Fr. et Sav. Enum. Pl. Jap. II. 147; Forb. et Hemsl. Ind. Ind. Sin. III. 313; Kük. Cyp.-Car. 475; Nakai, Veg. Mt. Apoi, 24, 75.

NOM. JAP. *Ito-suge*.

HAB. *Yezo*. Hidaka.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Korea and China.

477. *Carex sikokiana* Fr. et Sav. Enum. Pl. Jap. II. 573; Franch. in Nouv. Arch. Mus. Paris, 3 sér. X. 64; Matsum. Ind. Pl. Jap. II. 1: 133.

Carex tenuissima Boott var. *sikokiana* Kük. Cyp.-Car. 475; Mak. & Nem. Fl. Jap. 1373.

Carex alterniflora Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 51, et in Nouv. Arch. Mus. Paris, 3 sér. X. 64, t. 6, f. 2.

Carex pseudo-strigosa Lévl. et Vnt. in Bull. Acad. Géogr. Bot. 3 sér. XI. 109.

NOM. JAP. *Shikoku-itosuge*.

HAB. *Yezo*. Iburi, Ishikari, Tokachi.

Southern Saghalien. Motodomari.

DISTRIB. *Saghalien*, *Yezo*, Honshu, Shikoku and Kyushu.

478. *Carex pisiformis* Boott, in A. Gray, Pl. Jap. 324; Fr. et Sav. Enum. Pl. Jap. II. 142; Franch. Car. As.-Or. 185, *t.* 7, *f.* 2; Kom. Fl. Mansh. I. 375; Forb. et Hemsl. Ind. Fl. Sin. III. 304; Matsum. Ind. Pl. Jap. II. 1: 125; Kük. Cyp.-Car. 476, *f.* 76 *A-D*; Miyabe & Miyake, Fl. Saghal. 545; Mak. & Nem. Fl. Jap. 1361.

Carex stenostachya Fr. et Sav. Enum. Pl. Jap. II. 142, 569; Franch. Car. As.-Or. 185.

NOM. JAP. *Hommonji-suge*.

HAB. *Yezo*. Oshima, Shiribeshi, Hidaka, Kushiro.

Southern Saghalien. Odomari, Toyohara, Shikka.

DISTRIB. Saghalien, Yezo, Honshu, Korea and China.

479. *Carex sachalinensis* Fr. Schm. Fl. Sachal. 194, *t.* VI. *f.* 14-17; Meinsh. in Act. Hort. Petrop. XVIII. 360; Kudo, Contr. Fl. N. Saghal. 25, et Rep. Veg. N. Saghal. 73.

Carex pisiformis Boott, var. *sachalinensis* Kük. Cyp.-Car. 477, et Car. Sachal. 36; Matsum. Ind. Pl. Jap. II. 1: 126; Lévl. in Fedde, Repert. VII. 104; Miyabe & Miyake, Fl. Saghal. 546; Mak. & Nem. Fl. Jap. 1361.

Carex amphora Fr. et Sav. Enum. Pl. Jap. II. 142, 566.

Carex pseudo-conica Fr. et Sav. Enum. Pl. Jap. II. 142, 570; Franch. Car. As.-Or. 170; Matsum. Ind. Pl. Jap. II. 1: 128; Mak. & Nem. Fl. Jap. 1362.

Carex alba Scop. subsp. *ussuriensis* Miyabe & Miyake, Fl. Saghal. 546, non Kük. excl. Syn.

Carex korsakoviensis Lévl. MSS.

NOM. JAP. *Gongen-suge*, *O-itosuge*, *Susuya-shirosuge*.

HAB. *Yezo*. Oshima, Shiribeshi, Hidaka, Rishiri, Kitami, Kushiro.

Kuriles. Kunashiri, Urup.

Southern Saghalien. Odomari, Mauka, Toyohara, Motodomari.

Northern Saghalien. Tim.

DISTRIB. Saghalien, Kuriles, Yezo and Honshu.

480. *Carex multifolia* Ohwi, in Mem. Coll. Sci. Kyoto Imp. Univ., Ser. B. V. 3: 264.

Carex foliosissima Franch. in Nouv. Arch. Mus. Paris, 3 sér. X. 60;

Lévl. in Bull. Soc. Géogr. Bot. XI. 109; Matsum. Ind. Pl. Jap. II. 1: 110; Kük. Cyp.-Car. 478; Mak. & Nem. Fl. Jap. 1341, nec Fr. Schm. non Meinsh.

NOM. JAP. *Miyama-kansuge*.

HAB. *Yezo*. Oshima, Shiribeshi, Ishikari.

DISTRIB. *Yezo*, Honshu, Shikoku and Kyushu.

481. *Carex conica* Boott, in A. Gray, Pl. Jap. 325; Fr. et Sav. Enum. Pl. Jap. II. 143; Franch. Car. As.-Or. 169; Forb. et Hemsl. Ind. Fl. Sin. III. 280; Matsum. Ind. Pl. Jap. II. 1. 105; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. X. 269; Kük. Cyp.-Car. 478; Mak. & Nem. Fl. Jap. 1337.

Carex conica Boott var. *β. leucolepis* Fr. et Sav. Enum. Pl. Jap. II. 143, 570.

Carex Neumanniana Boeck. in Engl. Bot. Jahrb. V. 518.

NOM. JAP. *Hime-kansuge*.

HAB. *Yezo*. Oshima, Okushiri, Shiribeshi, Iburi, Ishikari.

DISTRIB. *Yezo*, Honshu and Kyushu.

482. *Carex lasiolepis* Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 46, et Car. As.-Or. 173; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. XIII. 504; Matsum. Ind. Pl. Jap. II. 1: 117; Kük. Cyp.-Car. 486; Nakai, Fl. Korea. II. 320; Miyabe et Kudo, Mater. Fl. Hokkaido n. 112, in Trans. Sapporo Nat. Hist. Soc. VII. 29; Mak. & Nem. Fl. Jap. 1350; Nakai, Veg. Mt. Apoi, 75.

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

NOM. JAP. *Azuma-suge*.

HAB. *Yezo*. Iburi, Hidaka.

DISTRIB. *Yezo*, Honshu and Korea.

483. *Carex lanceolata* Boott, in A. Gray, Perr. Exped. 326; Miq. Prol. Fl. Jap. 357; Fr. et Sav. Enum. Pl. Jap. II. 134; Franch. Car. As.-Or. 167; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. X. 269; Kük. Cyp.-Car. 493, et Car. Sachal. 36; Nakai, Fl. Korea. II. 321; Miyabe & Miyake, Fl. Saghal. 546; Mak. & Nem. Fl. Jap. 1349; Nakai, Veg. Mt. Apoi, 75.

Carex pediformis C. A. Mey. var. *genuina* Fr. Schm. Fl. Sachal. 193.

Carex pediformis C. A. Mey. var. *floribunda* Korsh. Pl. Amur. 409.

Carex longisquamata Meinsh. ex Kom. Fl. Mansh. I. 399.

Carex pediformis Matsum. Ind. Pl. Jap. II. 1: 124, non C. A. Mey.

NOM. JAP. *Hikage-suge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Kushiro.

Southern Saghalien. Odomari, Toyohara, Tomarioro.

DISTRIB. Saghalien, Yezo, Honshu, Korea, China, Manchuria, Ussuri, Amur and Eastern Siberia.

484. *Carex nanella* Ohwi, in Mem. Coll. Sci., Kyoto Imp. Univ., ser. B, V. 3: 263.

Carex lanceolata var. *nana* Lévl. et Vnt. in Bull. Acad. Intern. Géogr. Bot. 3 sér. XI. 269; Kük. l. c. 493; Mak. & Nem. Fl. Jap. 1349.

NOM. JAP. *Hime-hikagesuge*, *Hosoba-hikagesuge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari.

DISTRIB. Yezo, Honshu and Korea.

485. *Carex rariflora* Smith, Engl. Bot. t. 2516; Ledeb. Fl. Ross. IV. 297; Boott. Ill. II. 79, t. 217; Fr. Schm. Fl. Sachal. 196; Kurtz, in Engl. Bot. Jahrb. XIX. 479; Britt. & Br. Ill. Fl. I. 312; Matsum. Ind. Pl. Jap. II. 1: 130; Kük. Cyp.-Car. 502; Miyabe & Miyake, Fl. Saghal. 547; Kudo, Fl. Paramushir, 82, Contr. Fl. N. Saghal. 25, et Rep. Veg. N. Saghal. 73; Mak. & Nem. Fl. Jap. 1364; Hult. Fl. Kamtch. I. 200; Kom. Fl. Penins. Kamtsch. I. 257.

Carex limosa var. *rariflora* Wahlenb. in Vet. Acad. Handl. Stockholm XXIV. 162.

NOM. JAP. *Chishima-suge*.

HAB. *Kuriles*. Paramushir, Shumushu.

Southern Saghalien. Motodomari, Shikka.

Northern Saghalien. Alexandrowsk, Nyiwo, Pronge-Baikal, Oha.

DISTRIB. Saghalien, Kuriles, Kamtchatka, Tschuktchland, Aleutians, North America and Europe.

form. ***brevipenduculata*** Meinsh. in Act. Hort. Petrop. XVIII. 351; Kük. Cyp.-Car. 504; Miyabe & Miyakè, l.c.; Mak & Nem. l.c.

HAB. *Southern Saghalien*. Todomoshiri, Shikka.

DISTRIB. Saghalien and Lapland.

486. *Carex limosa* L. Sp. Pl. ed. 1, 977; Kunth, Enum. II. 461; Ledeb. Fl. Ross. IV. 307; Boott, Ill. II. 78, *t.* 216; Fr. Schm. Fl. Sachal. 197; Britt. & Br. Ill. Fl. I. 313; Kom. Fl. Mansh. I. 373; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 130; Kük. Cyp.-Car. 504, et Car. Sachal. 36; Koidz. Pl. Sachal. 28; Miyabe & Miyake, Fl. Saghal. 547; Printz, Veg. Sib. Mong. Front. 151; Kudo, Contr. Fl. N. Saghal. 25, et Rep. Veg. N. Saghal. 74; Mak. & Nem. Fl. Jap. 1351; Hult. Fl. Kamtch. I. 201; Kom. Fl. Penins. Kamtsch. I. 257.

NOM. JAP. *Karafuto-yachisuge*.

HAB. *Kuriles*. Etorofu.

Southern Saghalien. Odomari, Mauka, Tomarioro, Ushoro, Toyohara, Shikka.

Northern Saghalien. Tymi, Nyiwo.

DISTRIB. Saghalien, Kuriles, Korea, Manchuria, Amur, Kamtchatka, Siberia, Europe and North America.

var. **fusco-cuprea** Kük. Cyp.-Car. 505; Matsum. Ind. Pl. Jap. II. 1: 118; Takeda, Fl. Shikotan, 494; Mak. & Nem. l.c.

NOM. JAP. *Yachisuge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Kushiro.

Kuriles. Kunashiri, Shikotan, Etorofu.

Southern Saghalien. Odomari, Shikka.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu and Shikoku.

487. *Carex Fujitae* Kudo, Fl. Paramushir, 82.

(?) *Carex livida* Hult. Fl. Kamtch. I. 202, non Willd.

NOM. JAP. *Musen-suge*.

HAB. *Kuriles*. Paramushir.

DISTRIB. Kuriles and (?) Kamtchatka.

488. *Carex laxa* Wahlenb. in Vet. Akad. Handl. Stockholm XXIV. 156; Kunth, Enum. Pl. II. 461; Ledeb. Fl. Ross. IV. 297; Boott, Ill. II. 78, *t.* 213; Fr. Schm. Fl. Amg.-Burej. 70; Kom. Fl. Mansh. I. 374; Matsum. Ind. Pl. Jap. II. 1: 117; Kük. Cyp.-Car. 506; Mak. & Nem. Fl. Jap. 1350.

Carex macrochlamys Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 49, et in Nouv. Arch. Mus. Paris, X. 42, *t.* 1, *f.* 2.

NOM. JAP. *Ito-narukosuge*.

HAB. *Yezo*. Iburi, Ishikari.

DISTRIB. *Yezo*, Honshu, Manchuria, Amur and North Europe.

489. *Carex sparsiflora* Steud. Nomencl. Bot. ed. 2, I. 296; Kük. Cyp.-Car. 511; Mak. & Nem. Fl. Jap. 1369; Kom. Fl. Penins. Kamtsch. I. 259.

Carex panicea β . *sparsiflora* Wahlenb. Fl. Lapp. 236.

Carex vaginata Tausch, in Flora IV. 557; Kunth, Enum. Pl. II. 451; Ledeb. Fl. Ross. IV. 291; Boott, Ill. IV. 148, *t.* 478; Miyabe, Fl. Kuril. 268; Kom. Fl. Mansh. I. 389; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 143; Hult. Fl. Kamtch. I. 203.

Carex falcata Turcz. Fl. Baic.-Dahur. II. 276; Maxim. Prim. Fl. Amur. 311.

NOM. JAP. *Keyari-suge*.

HAB. *Yezo*. Nemuro.

Kuriles. Etorofu.

Southern Saghalien. Toyohara.

DISTRIB. Saghalien, Kuriles, *Yezo*, Manchuria, Amur, Ussuri, Kamtchatka, Siberia and Europe.

var. **Petersii** Kük. l.c. 513; Kudo, Fl. Paramushir, 83.

Carex Petersii C. A. Mey. apud Fr. Schm. Fl. Sachal. 194.

NOM. JAP. *Saya-suge*.

HAB. *Kuriles*. Urup, Paramushir.

Saghalien. (ex Fr. Schmidt.)

DISTRIB. Saghalien, Kuriles, Kamtchatka and Manchuria.

490. *Carex siderosticta* Hance, in Jour. Linn. Soc. Bot. XIII. 89, et in Jour. Bot. II. 560; Franch. Car. As.-Or. 195, *t.* 5, *f.* 1; Meinsh. in Act. Hort. Petrop. XVIII. 388; Kom. Fl. Mansh. I. 390; Forb. et Hemsl. Ind. Fl. Sin. III. 310; Matsum. Ind. Pl. Jap. II. 1: 133; Kük. Cyp.-Car. 523; Mak. & Nem. Fl. Jap. 1369; Nakai, Veg. Mt. Apoi, 75.

NOM. JAP. *Takaneso*, *Yama-obako*, *Gyojaso*, *Sasasuge*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Ishikari, Kitami, Tokachi, Kushiro.

DISTRIB. Yezo, Honshu, Shikoku, Kyushu, Korea, China and Manchuria.

var. **bracteosa** Franch. Car. As.-Or. 196; Kük. Cyp.-Car. 523; Mak. & Nem. l.c.

Carex platyphylla Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 50.

NOM. JAP. *Yezo-takaneso*.

HAB. *Yezo*. Hidaka, Kushiro.

DISTRIB. Endemic.

491. *Carex Doenitzii* Boeck. in Flora LXV. 61; Kuek. Cyp.-Car. 535; Matsum. Ind. Pl. Jap. II. 1: 108; Mak. & Nem. Fl. Jap. 1339.

Carex plocamostyla Maxim. in Mém. Biol. XII. 565; Franch. in Nouv. Arch. Mus. Paris, 3 sér. IX. 140.

Carex dicuspis Franch. in Bull. Soc. Philom. Paris, 8 sér. XVI. 42, non Lévl. et Vnt.

NOM. JAP. *Ko-tanukiran*.

HAB. *Yezo*. Kitami, Rebun.

DISTRIB. Yezo, Honshu and Shikoku.

492. *Carex podogyna* Fr. et Sav. Enum. Pl. Jap. II. 131, 557; Franch. in Nouv. Arch. Mus. Paris, 3 sér. VIII. t. 6, et in Bull. Soc. Bull. Soc. Philom. Paris, 8 sér. VII. 88, et Car. As.-Or. 134; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. X. 218; Matsum. Ind. Pl. Jap. II. 1: 126; Kük. Cyp.-Car. 538; Mak. & Nem. Fl. Jap. 1361.

NOM. JAP. *Tanukiran*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari.

DISTRIB. Yezo, Honshu and Shikoku.

493. *Carex tenuiseta* Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 43, et in Nouv. Arch. Mus. Paris, 3 sér. IX. 142; Kuek. Cyp.-Car. 538; Matsum. Ind. Pl. Jap. II. 1: 135.

NOM. JAP. *Ashiboso-suge*.

HAB. *Yezo*. Shiribeshi (Mt. Yoichi, I. Yamamoto, 1928), Ishikari (Mt. Sapporo, I. Yamamoto, 1926).

DISTRIB. Yezo and Honshu.

494. *Carex sharensis* Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 90, et Car. As.-Or. 72; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. XI. 175; Matsum. Ind. Pl. Jap. II. 1: 132; Kük. Cyp.-Car. 539; Mak. & Nem. Fl. Jap. 1368.

NOM. JAP. *Shari-suge*.

HAB. *Yezo*. Iburi, Kitami.

DISTRIB. *Yezo* and Honshu.

495. *Carex curvicolis* Fr. et Sav. Enum. Pl. Jap. II. 579; Franch. Car. As.-Or. 72; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. X. 175; Matsum. Ind. Pl. Jap. II. 1: 106; Kük. Cyp.-Car. 539; Mak. & Nem. Fl. Jap. 1338.

Carex viridula Fr. et Sav. Enum. Pl. Jap. II. 579, nec. Michx. non Schwein. et Torr.

Carex Savatieri Franch. Car. As.-Or. 71; Matsum. Ind. Pl. Jap. II. 1: 131, p. p.

NOM. JAP. *Yama-naruko*, *Naruko-suge*, *Mizu-narukosuge*.

HAB. *Yezo*. Oshima, Shiribeshi, Ishikari.

DISTRIB. *Yezo*, Honshu and Kyushu.

496. *Carex stenantha* Fr. et Sav. Enum. Pl. Jap. II. 146, 573; Franch. Car. As.-Or. 50, *t.* 3, *f.* 2; Lévl. et Vnt. in Bull. Acad. Géogr. Bot. XI. 105; Matsum. Ind. Pl. Jap. II. 1: 134; Kük. Cyp.-Car. 565, *f.* 94, *A-C*; Miyabe & Miyake, Fl. Saghal. 547; Kudo, Rep. Veg. N. Saghal. 74; Mak. & Nem. Fl. Jap. 1370.

Carex ferruginea Scop. var. Fr. Schm. Fl. Saghal. 196.

Carex stenolepis Franch. Car. As.-Or. 96, non Torr.

Carex Schmidtii Boeck. in Flora LXV. 63, non Meinsh.

Carex Ktausipali Meinsh. in Act. Hort. Petropol. XVIII. 359.

NOM. JAP. *Iwasuge*, *Takane-suge*.

HAB. *Yezo*. Shiribeshi, Iburi, Ishikari, Hidaka.

Southern Saghalien. Motodomari.

Northern Saghalien. Alexandrowsk.

DISTRIB. Saghalien, *Yezo*, Honshu and Kyushu.

var. ***taietsuensis*** Akiyama, in Journ. Facult. Sci. Hokkaido Imp. Univ. Ser. V. I. 2: 60, *pl.* 11, *f.* 5.

Carex stenantha Kudo, Fl. Paramushir, 84; Hult. Fl. Kamtch. I. 204.

NOM. JAP. *Taisetsu-iwasuge*.

HAB. *Yezo*. Ishikari.

Kuriles. Paramushir.

Southern Saghalien. Motodomari.

DISTRIB. Endemic.

497. *Carex yezo-montana* Akiyama, in Journ. Facul. Sci. Hokkaido Imp. Univ. Ser. V. I. 2: 62, *pl. 15, f. 9*.

NOM. JAP. *Takane-shojosuge*.

HAB. *Yezo*. Ishikari.

DISTRIB. Endemic.

498. *Carex tenuiformis* Lévl. et Vnt. in Bull. Acad. intern. Géogr. Bot. XI. 104; Kuek. Cyp.-Car. 571; Matsum. Ind. Pl. Jap. II. 1: 135; Mak. & Nem. Fl. Jap. 1372.

NOM. JAP.

HAB. *Yezo*. Rebunshiri.

DISTRIB. *Yezo* and Korea.

499. *Carex Sedakovii* C. A. Mey. ex Meinsh. in Act. Hort. Petrop. XVIII. 360; Kom. Fl. Mansh. I. 376; Kuek. Cyp.-Car. 588, *f. 99, A-C*; Matsum. Ind. Pl. Jap. II. 1: 132; Mak. & Nem. Fl. Jap. 1367; Nakai, Veg. Daisetsusan Mts. 59.

Carex capillaris var. *paludosa* Fr. Schm. Fl. Amg.-Burej. 69.

NOM. JAP. *Miyama-aosuge*.

HAB. *Yezo*. Ishikari.

DISTRIB. *Yezo*, Honshu, N. Korea, Amur, N. Mongolia and E. Siberia.

500. *Carex capillaris* L. Sp. Pl. ed. 1, 977; Kunth, Enum. Pl. II. 472; Ledeb. Fl. Alt. IV. 227, et Fl. Ross. IV. 295; Boott, Ill. IV. 182; Britt. & Br. Ill. Fl. I. 320; Meinsh. in Act. Hort. Petrop. XVIII. 362; Korsh. Pl. Amur. 410; Kom. Fl. Mansh. I. 377; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 153; Fernald, in Proc. Am. Acad. Sc. XXXVII. 509; Ostenfeld, Fl. Arct. 90, *f. 69*; Kük. Cyp.-Car. 590; Nakai, Fl. Korea. II.

323; Hegi, Ill. Fl. Mittel-Europ. II. 97, *t.* 52, *f.* 7; Koidz. in Tokyo Bot. Mag. XXXI. 143; Price and Simpson, in Jour. Linn. Soc. Bot. XLI. 450; Kudo, Fl. Paramushir, 84; Hult. Fl. Kamtch. I. 204; Kom. Fl. Penins. Kamtsch. I. 262.

NOM. JAP. *Takane-shibasuge*.

HAB. *Yezo*. Ishikari.

Kuriles. Paramushir.

Southern Saghalien. Toyohara, Motodomari.

DISTRIB. Saghalien, Kuriles, *Yezo*, Korea, Manchuria, Mongolia, Amur, Ussuri, Siberia, Kamtchatka, Tschuktschland, Tibet, Turkestan, Asia Minor, Caucasus, Europe and North America.

501. *Carex Arnellii* Christ, apud Scheutz, in Svensk. Vet. Akad. Handl. N. F. XXII. 177; Meinsh. in Act. Hort. Petrop. XVIII. 363, in nota et 411; Kom. Fl. Mansh. I. 377; Matsum. Ind. Pl. Jap. II. 1: 100; Kük. Cyp.-Car. 609, *f.* 103, et Car. Sachal. 36; Miyabe & Miyake, Fl. Saghal. 548; Mak. & Nem. Fl. Jap. 1331.

Carex silvatica Maxim. Prim. Fl. Amur. 312, non Huds.

Carex Maximowiczii Boeck. in Linnaea XLI. 237, nec. Miq. non Fr. Schm.

Carex Turczaninowiana Meinsh. ex Korsh. Pl. Amur. 411 et in Act. Hort. Petrop. XVIII. 363; Franch. in Nouv. Arch. Mus. Paris, 3 sér. X. 55.

NOM. JAP. *Aizusuge*.

HAB. *Southern Saghalien*. Odomari, Mauka, Toyohara, Motodomari, Shikka.

DISTRIB. Saghalien, Honshu, N. China, East Mongolia, Manchuria and Siberia.

502. *Carex Brownii* Tuckern. Enum. Meth. 21; Boott, Ill. IV. 161, *t.* 532; Benth. Fl. Austr. VII. 447; Fr. et Sav. Enum. Pl. Jap. II. 578; Franch. Car. As.-Or. 49; Palib. Consp. Fl. Korea. III. 22; Forb. et Hemsl. Ind. Fl. Sin. III. 277; Matsum. Ind. Pl. Jap. II. 1: 102, p p.; Kük. Cyp.-Car. 612, *f.* 104 A-D; Nakai, Fl. Korea. II. 325; Mak. & Nem. Fl. Jap. 1333.

Carex stricta R. Br. Prodr. Fl. Nov. Holl. 243; Kunth, Enum. Pl. II. 458.

Carex ringens Boott, in A. Gray, Bot. Jap. 419; Fr. et Sav. Enum. Pl. Jap. II. 149.

NOM. JAP. *Awabo-suge*, *Yawara-suge*.

HAB. *Yezo*. Oshima.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Liukiu, Korea, New Zealand and Australia.

503. *Carex ischnostachya* Steud. Syn. Cyp. II. 222; Franch. Car. As.-Or. 47; Forb. et Hemsl. Ind. Fl. Sin. III. 292; Matsum. Ind. Pl. Jap. II. 1: 114; Kük. Cyp.-Car. 614; Nakai, Fl. Korea. II. 326; Mak. & Nem. Fl. Jap. 1347.

Carex Ringgoldiana Boott, in A. Gray, Bot. Jap. 419; Miq. Prol. Fl. Jap. 81; Fr. et Sav. Enum. Pl. Jap. II. 148.

Carex Ringgoldiana Boott, var. *stenandra* Fr. et Sav. Enum. Pl. Jap. II. 577.

Carex brevibracteata K. Schumann in Sched.

NOM. JAP. *Juzusuge*, *Hirohano-yawarasuge*.

HAB. *Yezo*. Oshima, Shiribeshi.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Liukiu and Korea.

504. *Carex dispalata* Boott, in A. Gray, Pl. Jap. 325 et Ill. IV. 205; Fr. Schm. Fl. Sachal. 196, t. 7, f. 6-10; Fr. et Sav. Enum. Pl. Jap. II. 151; Franch. Car. As.-Or. 74; Kom. Fl. Mansh. I. 391; Forb. & Hemsl. Ind. Fl. Sin. III. 283; Matsum. Ind. Pl. Jap. II. 1: 107; Kük. Cyp.-Car. 616 et Car. Sachal. 37; Nakai, Fl. Korea. II. 326; Miyabe & Miyake, Fl. Saghal. 548; Kudo, Contr. Fl. N. Saghal. 25, et Rep. Veg. N. Saghal. 74; Mak. & Nem. Fl. Jap. 1339.

Carex dispalata Boott, β . *niigatensis* Fr. et Sav. Enum. Pl. Jap. II. 580.

Carex acutiformis Franch. Car. As.-Or. 83; Forb. et Hemsl. Ind. Fl. Sin. III. 269, non Ehrh.

Carex subanceps Boeck. in Engl. Bot. Jahrb. V. 520.

Carex japonica var. *alopecuroides* Lévl. et Vnt. in Bull. Acad. Intern. Géogr. Bot. XI. 177.

NOM. JAP. *Kasasuge*.

NOM. AINU. *Uncharina*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Kitami, Rebun, Rishiri, Kushiro.

Southern Saghalien. Odomari, Honto, Mauka, Toyohara, Shikka.

Northern Saghalien. Alexandrowsk, Tymi.

DISTRIB. Saghalien, Yezo, Honshu, Shikoku, Kyushu, Korea, Manchuria and China.

var. **reducta** Kük. Car. Sachal. 37.

HAB. *Southern Saghalien*. Odomari, Toyohara.

DISTRIB. Endemic plant.

505. *Carex confertiflora* Boott, in Proc. Linn. Soc. I. 286, in Trans. Linn. Soc. XX. 138, in A. Gray, Bot. Jap. 418, et Ill. IV. 184; Fr. et Sav. Enum. Pl. Jap. II. 151, 578; Franch. Car. As.-Or. 75; Makino, in Tokyo Bot. Mag. IX. 73; Ohwi, in Mem. Coll. Sci., Kyoto Imp. Univ., ser. B. V. 3: 289.

Carex olivacea Kuek. Cyp.-Car. 616, quod plant. ex Japonia; Matsum. Ind. Pl. Jap. II. 1: 124, non Boott.

Carex olivacea var. *angustior* Kuek. l.c. 618.

NOM. JAP. *Miyama-shirasuge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Teshio.

DISTRIB. Yezo, Honshu, Shikoku and Kyushu.

506. *Carex japonica* Thunb. Fl. Jap. 38; Kunth, Enum. Pl. II. 517; Makino, in Tokyo Bot. Mag. X. 109; Forb. et Hemsl. Ind. Fl. Sin. III. 292; Matsum. Ind. Pl. Jap. II. 1: 115; Kük. Cyp.-Car. 620; Nakai, Fl. Korea. II. 327; Mak. & Nem. Fl. Jap. 1347; Nakai, Veg. Mt. Apoi, 24, 75.

Carex japonica Thunb. β . *minor* Boott, Ill. II. 88.

Carex Motoskei Miq. Prol. Fl. Jap. 80; Fr. et Sav. Enum. Pl. Jap. II. 140.

Carex trichostyles Fr. et Sav. Enum. Pl. Jap. II. 152, 581.

Carex tokioensis Boeck. in Flora LXV. 63.

Carex japonica Thunb. β . *gracilis* Franch. Car. As.-Or. 78.

NOM. JAP. *Higokusa*.

HAB. *Yezo*. Oshima, Shiribeshi, Okushiri, Iburi, Hidaka, Ishikari, Kushiro.

DISTRIB. Yezo, Honshu, Kyushu, Korea, Manchuria and China.

507. *Carex aphanolepis* Fr. et Sav. Enum. Pl. Jap. II. 152, 580.

Carex japonica Thunb. var. *humilis* Franch. Car. As.-Or. 77.

Carex japonica Thunb. var. β . *aphanolepis* Kük. Cyp.-Car. 620; Matsum. Ind. Pl. Jap. II. 1: 116; Nakai, Fl. Korea. II. 327; Mak. & Nem. Fl. Jap. 1348.

NOM. JAP. *Sawasuge*, *Enashi-higokusa*.

HAB. Yezo. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Kushiro, Nemuro.

DISTRIB. Yezo, Honshu and Korea.

508. *Carex chlorostachys* D. Don, in Trans. Linn. Soc. XIV. 338.

Carex Doniana Spreng. Syst. III. 825; Kunth, Enum. Pl. II. 503; Fr. et Sav. Enum. Pl. Jap. II. 152.

Carex japonica Boott, Ill. II. 88, *t.* 257; Hook. f. Fl. Brit. Ind. IV. 736, non Thunb.

Carex patens Franch. in Bull. Soc. Philon. Paris, 8 sér. VII. 90.

Carex baviensis Franch. Car. As.-Or. 77.

Carex alopecuroides var. *chlorostachya* C. B. Clarke, in Forb. et Hemsl. Ind. Fl. Sin. III. 271, excl. syn. *Carex Zollingeri*.

Carex tricarinata Lévl. et Vnt. in Bull. Soc. Bot. Franc. 4 sér. VI. 317.

Carex japonica Thunb. var. γ . *chlorostachys* Kük. Cyp.-Car. 620; Matsum. Ind. Pl. Jap. II. 1: 116; Nakai, Fl. Korea. II. 327; Mak & Nem. Fl. Jap. 1348.

NOM. JAP. *Shirasuge*.

HAB. Yezo. Kitami, Rishiri.

DISTRIB. Yezo, Honshu, Kyushu, Liukiu, Formosa, Korea, China, Tonkin, Khasia and Sikkim.

509. *Carex mollicula* Boott, Ill. IV. 192; Franch. Car. As.-Or. 73;

Lévl. et Vnt. in Bull. Soc. Géogr. Bot. XI. 178; Forb. et Hemsl. Ind. Fl. Sin. III. 299; Matsum. Ind. Pl. Jap. II. 1: 121; Kük. Cyp.-Car. 622; Nakai, Fl. Korea. II. 328; Takeda, Fl. Shikotan, 494; Mak. & Nem. Fl. Jap. 1355; Nakai, Veg. Mt. Apoi, 75.

NOM. JAP. *Himeshirasuge*.

HAB. . . *Yezo*. Oshima, Shiribeshi, Okushiri, Iburi, Hidaka, Ishikari, Kitami, Rebun, Nemuro.

Kuriles. Kunashiri, Shikotan, Etorofu.

DISTRIB. Kuriles, Yezo, Honshu, Shikoku, Kyushu, Korea and North China.

510. *Carex niigatensis* Koidz. in Fl. Symb. Or.-Asiat. 46.

Carex Morrowii var. *niigatensis* Fr. et Sav. Enum. Pl. Jap. II. 572.

Carex Morrowii var. *longesquamata* Franch. in Bull. Soc. France XXVI.

90.

Carex Morrowii f. *niigatensis* Kuek. Cyp.-Car. 626.

Carex Morrowii Matsum. Ind. Pl. Jap. II. 1: 121, p. p.; Mak. & Nem. Fl. Jap. 1355, p. p., non Boott.

NOM. JAP. *Okuno-kansuge*.

HAB *Yezo*. (fide Koidzumi).

DISTRIB. Yezo and Honshu.

var. ***brevisquamosa*** Koidz. l.c. 46.

Carex Morrowii Kuek. Car. Sachal. 30; Miyabe et Miyake, Fl. Saghal. 549; Matsum. Ind. Pl. Jap. II. 1: 121, p. p., non Boott.

Carex foliosissima Fr. Schm. Fl. Saghal. 195, t. 6, f. 1-6, non Franch.

NOM. JAP. *Yezo-kansuge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Rishiri.

Southern Saghalien. Odomari, Mauka, Toyohara.

DISTRIB. Saghalien, Yezo and North Honshu.

var. ***yesanensis*** Koidz. l.c. 46.

Carex yesanensis Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 88, et Car. As.-Or. 39.

Carex Morrowii var. *yesanensis* Kuek. Cyp.-Car. 626; Mak. & Nem. Fl. Jap. 1356.

NOM. JAP. *Esan-kansuge*.

HAB. *Yezo*. Oshima.

DISTRIB. Endemic.

var. **crassicaulis** Koidz. l.c. 47.

Carex Morrowii var. *crassicaulis* Franch. Car. As.-Or. 41; Kuek. Cyp.-Car. 626; Mak. & Nem. l.c. 1356.

NOM. JAP. *O-kansuge*.

HAB. *Yezo*. Kitami.

DISTRIB. *Yezo* and Honshu.

511. *Carex insaniae* Koidz. Fl. Symb. Or.-Asiat. 44.

Carex Fauriei Franch. in Bull. Soc. Philom. Paris, 7 sér. X. (1885), 103 et Car. As.-Or. 197, t. 6, f. 1; Lévl. et Vnt. in Bull. Acad. Géogr. Bot. XI. 30; Matsum. Ind. Pl. Jap. II. 1: 108; Kük. Cyp.-Car. 632; Mak. & Nem. Fl. Jap. 1340; non Franch. (1879).

NOM. JAP. *Hiroba-suge*, *Hosoba-taganeso*.

HAB. *Yezo*. Shiribeshi, Ishikari.

DISTRIB. *Yezo* and Honshu.

512. *Carex longerostrata* C. A. Mey. in Mém. Acad. St.-Pétersb. I. 220; Ledeb. Fl. Ross. IV. 293; Maxim. Prim. Fl. Amur. 312; Fr. et Sav. Enum. Pl. Jap. II. 144; Fr. Schm. Fl. Sachal. 195; Franch. in Bull. Soc. Bot. France (1879) 89 et Car. As.-Or. 53; Korsh. Pl. Amur. 389; Matsum. Ind. Pl. Jap. II. 1: 118; Kük. Cyp.-Car. 636, et Car. Sachal. 37; Miyabe & Miyabe, Fl. Saghal. 549; Mak. & Nem. Fl. Jap. 1351; Hult. Fl. Kamtch. I. 205; Kom. Fl. Penins. Kamtsch. I. 263.

Carex bispicata Hook. et Arn. in Bot. Beech. Voy. III. 118, t. 28.

Carex camtschatcense Kunth, Enum. Pl. II. 477.

Carex Michelii var. β . Boott, Ill. IV. 191.

NOM. JAP. *Hie-suge*, *Matsumaye-suge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Ishikari, Kitami, Rebun, Rishiri, Kushiro.

Kuriles. Urup.

Southern Saghalien. Odomari, Honto, Toyohara.

DISTRIB. Saghalien, Kuriles, *Yezo*, Honshu, Shikoku, Korea, Manchuria, Amur, Kamtchatka and East Siberia.

var. **recurvifolia** Kük. l.c.

HAB. *Yezo*. Without locality (Faurie fide Kük.)

DISTRIB. Endemic plant.

513. *Carex pilosa* Scop. Fl. Carn. ed. 2, II. 226; Kunth, Enum. Pl. II. 452; Ledeb. Fl. Ross. IV. 290; Boott, Ill. IV. 215; Franch. in Bull. Soc. Philom. 8 sér. VII. 50, et Car. As.-Or. 198; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. (1903) 505; Kom. Fl. Mansh. I. 388; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 133; Matsum. Ind. Pl. Jap. II. 1: 125; Kük. Cyp.-Car. 636, et Car. Sachal. 37; Miyabe & Miyake, Fl. Sachal. 550; Mak. & Nem. Fl. Jap. 1360.

Carex falcata Fr. Schm. Fl. Sachal. 194, non Turcz.

Carex hakodatensis Lévl. et Vnt. in Bull. Soc. Bot. Franc. LI. 206.

Carex Miyabei K. Schumann, in litt.

NOM. JAP. *Kesuge*, *Hanamagari-suge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Kitami, Kushiro, Nemuro.

Southern Saghalien. Odomari, Mauka, Tomarioro, Toyohara.

DISTRIB. Saghalien, *Yezo*, Honshu, Korea, Manchuria, Amur and Europe.

var. ***auriculata*** Kuek. Cyp.-Car. 637; Mak. & Nem. Fl. Jap. 1360.

Carex auriculata Franch. in Bull. Soc. Philom. Paris, 7 sér. X. 106, et Car. As.-Or. 199; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. (1903) 505; Matsum. Ind. Pl. Jap. II. 1: 100, non L. H. Bailey

NOM. JAP. *Mimisuge*.

HAB. *Yezo*. Shiribeshi, Iburi.

DISTRIB. Endemic plant.

514. *Carex papulosa* Boott, in Mem. Am. Acad. n. ser. VI. 418; Miq. Prol. Fl. Jap. 357; Fr. et Sav. Enum. Pl. Jap. II. 147, 575; Kük. Cyp.-Car. 637; Mak. & Nem. Fl. Jap. 1360; Ohwi, in Mem. Coll. Sci., Kyoto Imp. Univ., ser. B. V. 3: 291.

Carex flectens Boott, Ill. IV. 171, *t.* 581; Franch. Car. As.-Or. 42.

Carex grandisquama Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 51 et Car. As.-Or. 41, *t.* 1, *f.* 1; Matsum. Ind. Pl. Jap. II. 1: 113.

Carex Sekimotoi Honda, in Tokyo Bot. Mag. XLIII. 543.

NOM. JAP. *Yezo-tsurisuge*, *Hiroba-yachisuge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Kushiro.

DISTRIB. *Yezo*, Honshu, Kyushu and Korea.

form. **paupercula** Kük. l.c. 638.

HAB. *Yezo*. Shiribeshi, Iburi.

DISTRIB. *Yezo* and Honshu.

515. *Carex parciflora* Boott, in Mem. Amer. Acad. n. ser. VI. 418; Miq. Prol. Fl. Jap. 357; Fr. et Sav. Enum. Pl. Jap. II. 147, 575; Franch. Car. As.-Or. 43; Kudo, Contr. Fl. N. Saghal. 25, et Rep. Veg. N. Saghal. 75.

Carex Jackiana Boott, subsp. *parciflora* Kük. Cyp.-Car. 638; Miyabe & Miyake, Fl. Saghal. 550; Mak. & Nem. Fl. Jap. 1347.

Carex Jackiana Boott, var. *parciflora* Kük. apud Matsum. Ind. Pl. Jap. II. 1: 115.

Carex Glehni Fr. Schm. Fl. Saghal. 194, t. 7, f. 16-21.

NOM. JAP. *Glehn-suge*.

HAB. *Yezo*. Oshima, Ishikari, Kitami.

Southern Saghalien. Mauka.

Northern Saghalien. Alexandrowsk.

DISTRIB. Saghalien, *Yezo* and Honshu.

form. **ochrolepis** (Franch.)

Carex ochrolepis Franch. Car. As.-Or. 48, t. 2, f. 2.

Carex Jackiana Boott, subsp. *parciflora* Kük. form. *ochrolepis* Kük. l.c.; Mak. & Nem. l.c.

NOM. JAP.

HAB. *Yezo*. Ishikari.

DISTRIB. Endemic plant.

516. *Carex macroglossa* Fr. et Sav. Enum. Pl. Jap. II. 148, 576; Franch. Car. As.-Or. 45, t. 2, f. 1.

Carex Jackiana Boott, subsp. *parciflora* Kük. var. *macroglossa* Kük. l.c. 638; Mak. & Nem. l.c.

Carex Jackiana Boott, var. *macroglossa* Kük. apud Matsum. Ind. Pl. Jap. II. 1: 115.

NOM. JAP. *Ko-juzu-suge*.

HAB. *Yezo*. Oshima, Ishikari.

DISTRIB. *Yezo*, Honshu and Korea.

517. *Carex villosa* Boott, in A. Gray, Perr. Exped. 327 et Ill. IV. 203; Fr. et Sav. Enum. Pl. Jap. II. 142, p. p.; Franch. Car. As-Or. 44; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. XI. 32; Forb. et Hemsl. Ind. Fl. Sin. III. 318; Matsum. Ind. Pl. Jap. II. 1: 137; Kük. Cyp.-Car. 641; Mak. & Nem. Fl. Jap. 1376; Ohwi, in Mem. Coll. Sci., Kyoto Imp. Univ., ser. B. V. 3: 288.

Carex villosa Boott, var. *Wrightii* Fr. et Sav. Enum. Pl. Jap. II. 567.

Carex drymophila var. *reducta* Kük. l.c. 755.

NOM. JAP. *Hatabe-suge*.

HAB. *Yezo*. Oshima, Iburi, Ishikari, Kushiro.

DISTRIB. *Yezo* and Honshu.

518. *Carex Oederi* Retz. Fl. Scand. Prodr. 179; Boiss. Fl. Orient. V. 426; Kük. Cyp.-Car. 673; Printz, Veg. Sib. Mong. Front. 163.

var. ***viridula*** Kük. l.c. 674; Miyabe & Miyake, Fl. Saghal. 550; Mak. & Nem. Fl. Jap. 1358; Hult. Fl. Kamtch. I. 206.

Carex viridula Michx. Fl. Bor. Amer. II. 170; Boott, Ill. IV. 159, *t.* 523; Britt. & Br. Ill. Fl. I. 324.

Carex Oederi Franch. Car. As.-Or. 56; Matsum. Ind. Pl. Jap. II. 1: 123, non Retz.

Carex flava var. *Oederi* Lévl. et Vnt. in Bull. Soc. Géogr. Bot. XI. 106, non Ehrh.

NOM. JAP. *Yezo-sawasuge*.

HAB. *Yezo*. Oshima, Iburi, Kushiro, Nemuro.

Kuriles. Kunashiri, Urup.

Southern Saghalien. Shikka.

DISTRIB. var. Saghalien, *Yezo*, Kuriles, Kamtchatka and North America: *sp.* East Siberia, Turkestan, Persia, Europe and North America.

519. *Carex pseudo-Cyperus* L. Sp. Pl. ed. 1, 978; Kunth, Enum. Pl. II. 501; Boott, Ill. IV. 140, *t.* 451-452; Boiss. Fl. Orient. V. 428; Britt. &

Br. Ill. Fl. I. 300; Hook. f. Fl. Brit. Ind. VI. 740; Franch. Car. As.-Or. 59; Kük. in Engl. Bot. Jahrb. XXVII. 549, et Cyp.-Car. 695; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 208; Matsum. Ind. Pl. Jap. II: 1: 129; Printz, Veg. Sib. Mong. Front. 163; Mak. & Nem. Fl. Jap. 1362

NOM. JAP.

HAB. *Yezo*. Iburi.

DISTRIB. *Yezo*, Siberia, Kashmir, Europe, North Africa, North America and New Zealand.

520. *Carex capricornis* Meinsh. ex Maxim. in Mém. Biol. XII. 569, (incl. var. *capitata*); Franch. Car. As.-Or. 79; Korsh. Pl. Amur. 410; Makino, in Tokyo Bot. Mag. XII. (14); Kom. Fl. Mansh. I. 379; Matsum. Ind. Pl. Jap. II. 1: 104; Kük. Cyp.-Car. 697, *f. 119*; Nakai, Fl. Korea. II. 331.

Carex Pseudo-Cyperus var. *brachystachya* Rgl. et Maack, Tent. Fl. Ussuri. 165, *t. XII. f. 13-17*.

NOM. JAP. *Joro-suge*.

HAB. *Yezo*. Kitami, Kushiro.

DISTRIB. *Yezo*, Honshu, Korea and Manchuria.

521. *Carex Michauxiana* Boeck. in Linnaea XLI. 336; Franch. Car. As.-Or. 81; Lévl. et Vnt. in Bull. Soc. Géogr. Bot. XI. 178; Matsum. Ind. Pl. Jap. II. 1: 120; Kük. Cyp.-Car. 705; Mak. & Nem. Fl. Jap. 1354; Kom. Fl. Penins. Kamtsch. I. 264.

Carex rostrata Michx. Fl. Bor. Am. II. 173; Boott, Ill. 91, *t. 267*; Fr. et Sav. Enum. Pl. Jap. II. 151.

subsp. ***asiatica*** Hult. Fl. Kamtsch. I. 207.

NOM. JAP. *Mitake-suge*.

HAB. *Yezo*. Oshima, Iburi, Ishikari.

Kuriles. Kunashiri, Etorofu, Urup.

DISTRIB. *subsp.* *Kuriles*, *Yezo*, Honshu and Kamtschatka. *sp. typ.* North America.

522. *Carex rotundata* Wahlenb. in Vet. Akam. Handl. XXIV. 153; Kunth, Enum. Pl. II. 451; Ledeb. Fl. Ross. IV. 300; Trautv. et Mey. Fl. Ochot. 99; Fr. Schm. Fl. Sachal. 197; Kurtz, in Engl. Bot. Jahrb. XIX. 479;

Kudo, Rep. Veg. N. Saghal. 75; Hult. Fl. Kamtch. I. 209; Kom. Fl. Penins. Kamtsch. I. 265.

Carex rostrata Stokes, subsp. *rotundata* Kuek. Cyp.-Car. 723; Miyabe & Miyake, Fl. Saghal. 551; Mak. & Nem. Fl. Jap. 1366.

Carex ruesanensis Kudo, Fl. Paramushir, 83, et Contr. Fl. N. Saghal. 25, et Rep. Veg. N. Saghal. 74; Hult. Fl. Kamtch. I. 205.

NOM. JAP. *Karafuto-kasasuge*, *Ruesan-suge*.

HAB. *Kuriles*. Paramushir.

Southern Saghalien. Shikka.

Northern Saghalien. Alexandrowsk, Nyiwo, Pronge-Baikal.

DISTRIB. Saghalien, Kuriles, Kamtchatka, Ochotsk, Arctic Siberia, North Europe and Arctic America.

523. *Carex laevirostris* Blytt, ex Blytt et Fries in Bot. Notis. (1844) 24; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 211; Matsum. Ind. Pl. Jap. II. 1: 117; Kük. Cyp.-Car. 724 et Car. Sachal. 37; Nakai, Fl. Korea. II. 331; Takeda, Fl. Shikotan, 494; Miyabe & Miyake, Fl. Saghal. 551; Printz, Veg. Sib. Mong. Front. 164; Kudo, Contr. Fl. N. Saghal. 25 et Rep. Veg. N. Saghal. 75; Mak. & Nem. Fl. Jap. 1349; Hult. Fl. Kamtch. I. 209; Kom. Fl. Penins. Kamtsch. I. 266.

Carex rhynchophysa C. A. Mey. Ind. Sem. Hort. Petrop. IX. Suppl. 9; Ledeb. Fl. Ross. IV. 318; Trautv. et Mey. Fl. Ochot. 102; Maxim. Prim. Fl. Amur. 316; Fr. Schm. Fl. Amg.-Burej. 71 et Fl. Sachal. 197; Fr. et Sav. Enum. Pl. Jap. II. 155; Korsh. Pl. Amur. 413; Franch. Car. As.-Or. 85; Kom. Fl. Mansh. I. 381.

NOM. JAP. *O-kasasuge*.

NOM. AINU. *Popke-kina*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Teshio, Rishiri, Kitami, Kushiro.

Kuriles. Kunashiri, Shikotan, Etorofu.

Southern Saghalien. Todomoshiri, Odomari, Tomarioro, Toyohara, Shikka.

Northern Saghalien. Alexandrowsk, Tim, Tymi, Pronge-Baikal, Oha.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Korea, Manchuria, Amur, Ochotsk, Kamtchatka, Siberia and Europe.

524. *Carex vesicaria* L. Sp. Pl. ed. 1. 979; Kunth, Enum. Pl. II. 494; Ledeb. Fl. Ross. IV. 317; Boott, Ill. IV. 162, *t.* 536; Trautv. et Mey. Fl. Ochot. 101; Maxim. Prim. Fl. Amur. 315; Franch. Car. As.-Or. 84; Korsh. Pl. Amur. 608; Kom. Fl. Mansh. I. 380; Forb. et Hemsl. Ind. Pl. Sin. III. 317; Matsum. Ind. Pl. Jap. II. 1: 317; Kük. Cyp.-Car. 725 et Car. Sachal. 37; Nakai, Fl. Korea. II. 332; Miyabe & Miyake, Fl. Saghal. 522; Kudo, Fl. Paramushir, 84, Contr. Fl. N. Saghal. 25, et Rep. Veg. N. Saghal. 76; Mak. & Nem. Fl. Jap. 1375; Hult. Fl. Kamtch. I. 211; Kom. Fl. Penins. Kamtsch. I. 266.

NOM. JAP. *Oni-narukosuge*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Kitami, Rishiri, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan, Urup, Paramushir.

Southern Saghalien. Odomari, Tomarioro, Ushoro, Toyohara, Shikka.

Northern Saghalien. Alexandrowsk, Tim, Tymi.

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Korea, China, Manchuria, Amur, Kamtchatka, Siberia, Caucasus, Europe and North America.

var. **monile** Boeck. in Linnaea XLI. 320; Kük. Cyp.-Car. 726, et Car. Sachal. 37; Miyabe & Miyake, Fl. Saghal. 552; Takeda, Fl. Shikotan, 494; Mak. & Nem. l.c.

Carex monile Tuckerm. Enum. Meth. 20; Boott, Ill. I. 28, *t.* 72; Britt. & Br. Ill. Fl. I. 297.

NOM. JAP. *Juzu-narukosuge*.

HAB. *Yezo*. Ishikari.

Kuriles. Kunashiri, Shikotan.

Southern Saghalien. Odomari, Toyohara, Shikka.

DISTRIB. Saghalien, Yezo, Kuriles and North America.

var. **tenuistachya** Kük. in Bot. Centralbl. LXXXVII. 58, et Cyp.-Car. 726, et Car. Sachal. 37; Miyabe & Miyake, Fl. Saghal. 552; Mak. & Nem. l.c.; Hult. l.c. 221.

Carex vesicaria Fr. Schm. Fl. Sachal. 197, non L.

NOM. JAP. *Hosobo-narukosuge*.

HAB. *Yezo*. Ishikari.

Southern Saghalien. Todomoshiri, Honto, Ushoro, Toyohara.

DISTRIB. Saghalien, Yezo, Manchuria, Kamtchatka and Siberia.

525. *Carex saxatilis* L. Sp. Pl. ed. 1, 976; Bailey, in Mem. Torr. Bot. Club. I. 37; Britt. & Br. Ill. Fl. I. 296; Fernald, in Rhodora III. 50; Kudo, Fl. Paramushir, 85; Hult. Fl. Kamtch. I. 211.

Carex pulla Good. in Trans. Linn. Soc. III. 78, *t.* 14; Kunth, Enum. Pl. II. 410; Meinsh. in Act. Hort. Petrop. XVIII. 343; Ostenfeld, Fl. Arct. 95; Kom. Fl. Penins. Kamtsch. I. 267.

Carex vesicaria L. subsp. *saxatilis* Kük. Cyp.-Car. 727.

NOM. JAP. *Chishima-narukosuge*.

HAB. *Kuriles*. Paramushir.

DISTRIB. N. Kuriles, Kamtchatka, Tschukthland, arctic and subarctic regions of Siberia, Europe and North America.

526. *Carex riparia* Curtis, Fl. Lond. IV. *t.* 60; Kunth, Enum. Pl. II. 489; Ledeb. Fl. Ross. IV. 314; Boiss. Fl. Orient. V. 430; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 215; Kük. Cyp.-Car. 735; Printz, Veg. Sib. Mong. Front. 164.

var. ***rugulosa*** Kük. l.c. 736; Mak. & Nem. Fl. Jap. 1365.

Carex rugulosa Kük. in Bull. Herb. Boiss. 2 sér. IV. 58.

NOM. JAP.

HAB. *Yezo*. Oshima.

DISTRIB. var. *Yezo* and Honshu: *sp.* Siberia, Caucasus, Asia Minor, Europe, North Africa and North America.

527. *Carex scabrifolia* Steud. Syn. Cyper. II. 237; Miq. Fl. Ind. Bat. III. 354; Kük. Cyp.-Car. 737; Nakai, Fl. Korea. II. 332; Mak. & Nem. Fl. Jap. 1366.

Carex Pierotii Miq. Prol. Fl. Jap. 80; Fr. et Sav. Enum. Pl. Jap. II. 154; Franch. Car. As.-Or. 90; Kom. Fl. Mansh. I. 386; Palib. Consp. Fl. Korea. III. 24; Forb. et Hemsl. Ind. Fl. Sin. III. 304; Matsum. Ind. Pl. Jap. II. 1: 125.

Carex suberea Boott, Ill. IV, 165, *t.* 546.

Carex Malinvaudi Lévl. et Vnt. in Bull. Soc. Bot. Franch. LI. 204.

Carex Yabei Lévl. et Vnt. in Bull. Soc. d'Agric. Sarthe LX. 79.

NOM. JAP. *Shio-kugu*, *Hama-kugu*.

HAB. *Yezo*. Kushiro, Nemuro.

DISTRIB. *Yezo*, Honshu, Shikoku, Kyushu, Liukiu, Korea, Manchuria and China.

528. *Carex* (*Paludosae*) *tsuishikarensis* Koidz. et Ohwi, sp. nov.

Rhizoma tenue repens stoloniferum. Culmus 25–50 cm altus tenuis sed firmus triqueter laevis. Folia culmo breviora cinereo-viridia crassa angusta canaliculata coriacea 1.5 mm. lata laevia septato-nodosa, apice triquetra-acuminata; vaginae molles striatae pallidae. Spiculae 2–3 remotae erectae; terminalis mascula linearis 2–3 cm. longa, 2–2.5 mm. lata, pedunculo 2–3 cm. longo sustenta; laterales femineae, inferior longe exserte pedunculata, superior sessilis, omnes globoso- vel oblongo-ovatae subdense 8–20-florae 1–1.5 cm. longae 6–7 mm latae, pedunculis axeque perfecte laevibus firmulis. Bractea superior setacea vel squamiformis grosse auriculata, inferior longe vaginans foliacea inflorescentia longior breviorve. Squamae masculae obtusae rufo-castaneae marginibus superne anguste albo-hyalinae; femineae late ovatae castaneae marginibus late albo-hyalinae apice acutae, dorso trinerviae, basi subinvolutae. Utriculi squamas superantes patentes late ovati subcoriacei inflato-trigoni 5–5.5 mm. longi cinereo-brunnei, vix nitidi, glabri plurinervioli saepe fusco-tincti, basi contracti, apice in rostrum breve planiusculum ore fusco rigido bidentatum subsensim contracti. Nux laxa inclusa late obovata trigona, facie concaviuscula 2 mm. longa sessilis, apice stylo inclusio-recto firmo basi aequali persistente terminata. Stigmata 3 brevia.

Carex rotundata Miyabe et Kudo, Mater. Fl. Hokk. n. 113, in Trans. Sapporo Nat. Hist. Soc. VII. 29, non Wahlb.

NOM. JAP. *Horomui-kugu*.

HAB. *Yezo*. Ishikari, Kushiro.

Typus: Tsuishikari (20, VII. anno?, G. Koidzumi), in Herb. Imp. Univ., Kyoto.

DISTRIB. Endemic.

529. *Carex pumila* Thunb. Fl. Jap. 39; Kunth, Enum. Pl. II. 517; Boott, in A. Gray, Pl. Jap. 322 et Ill. IV. 217; Miq. Prol. Fl. Jap. 81, 357;

Fr. et Sav. Enum. Pl. Jap. II. 153; Franch. Car. As.-Or. 89; Kük. in Engl. Bot. Jahrb. XXVII. 551, et Cyp.-Car. 738; Kom. Fl. Mansh. I. 385; Forb. et Hemsl. Ind. Fl. Sin. III. 307; Nakai, Fl. Korea. II. 333; Takeda, Fl. Shikatan, 494; Makino, in Jap. Jour. Bot. III. 28; Mak. & Nem. Fl. Jap. 1363.

NOM. JAP. *Kobo-shiba*.

HAB. *Yezo*. Oshima, Shiribeshi, Iburi, Hidaka, Ishikari, Teshio, Kitami, Kushiro.

Kuriles. Kunashiri, Shikotan.

Southern Saghalien. Mauka,

DISTRIB. Saghalien, Kuriles, Yezo, Honshu, Shikoku, Kyushu, Liukiu, Formosa, Korea, China, Manchuria, Australia, New Zealand and South America.

530. *Carex nutans* Host, Gram. Austr. I. 61, *t.* 83; Kunth, Enum. Pl. II. 488; Ledeb. Fl. Ross. IV. 315; Boott, Ill. IV. 194; Boiss. Fl. Orient. V. 429; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 217; Forb. et Hemsl. Ind. Fl. Sin. III. 301; Kük. Cyp.-Car. 740; Printz, Veg. Sib. Mong. Front. 165.

var. **platyrhyncha** Kük. Cyp.-Car. 740; Mak & Nem. Fl. Jap. 1357.

Carex platyrhyncha Fr. et Sav. Enum. Pl. Jap. II. 154, 582; Franch. Car. As.-Or. 90; Matsum. Ind. Pl. Jap. II. 1: 126.

Carex nutans Host var. *japonica* Fr. et Sav. l.c.

NOM. JAP.

HAB. *Yezo*. Iburi, Ishikari.

Southern Saghalien. Odomari, Mauka.

DISTRIB. var. Saghalien, Yezo, Honshu, China: *sp.* China, Mongolia, Dsungaria, Turkestan, Siberia, Asia Minor and Europe.

531. *Carex lasiocarpa* Ehrh. in Hannoev. Magaz. IX. 132; Aschers. u. Graebn. Syn. Mitteleurop. Fl. II. 2: 220; Kük. Cyp.-Car. 747; Hult. Fl. Kamtch. I. 212; Kom. Fl. Penins. Kamtsch. I. 269.

var. **occultans** Franch. Car. As.-Or. 89; Kük. l. c.; Takeda, Fl. Shikotan, 494; Miyabe & Miyake, Fl. Saghal. 553; Mak. & Nem. Fl. Jap. 1350.

Carex filiformis Fr. Schm. Fl. Sachal. 198; Fr. et Sav. Enum. Pl. Jap.

II. 153; Franch. Car. As.-Or. 88; Kom. Fl. Mansh. I. 385; Matsum. Ind. Pl. Jap. II. 1: 109, non L.

NOM. JAP. *Itoba-birodosuge*, *Mujina-suge*.

HAB. *Yezo*. Iburi, Hidaka, Ishikari, Kushiro, Nemuro.

Kuriles. Kunashiri, Shikotan.

Southern Saghalien. Odomari, Ushoro, Toyohara, Shikka.

DISTRIB. *var.* Saghalien, Kuriles, Yezo, Manchuria, Amur, Ussuri and China: *sp.* Kamtchatka,, Siberia, Europe and North America.

532. *Carex Miyabei* Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 52, et Car. As.-Or. 88.

Carex saruensis Franch. Car. As.-Or. 85 et in Nouv. Arch. Mus. Paris, 3 sér. VIII. t. 12, f. 1.

Carex Wallichiana Presc. *var. Miyabei* Kük. Cyp.-Car. 749; Matsum. Ind. Pl. Jap. II. 1: 138; Mak. & Nem. Fl. Jap. 1376.

NOM. JAP. *Birodo-suge*.

HAB. *Yezo*. Oshima, Iburi, Hidaka, Ishikari, Kitami, Kushiro.

DISTRIB. *Yezo*, Honshu, Kyushu and Korea.

533. *Carex Koidzumii* Honda, in Tokyo Bot. Mag. XLV. 3.

Carex striata Michx. *var. japonica* Koidz. in Tokyo Bot. Mag. XXIX. (388); Mak. & Nem. Fl. Jap. 1370.

NOM. JAP. *Yachi-kugu*.

HAB. *Yezo*. Iburi, Ishikari.

DISTRIB. *Yezo* and Honshu.

534. *Carex orthostachys* C. A. Mey. in Ledeb. Fl. Alt. IV. 231; Trev. in Ledeb. Fl. Ross. IV. 316, p. p.; Kunth, Enum. Pl. Jap. II. 491.

Carex orthostachys C. A. Mey. *var. genuina* Maxim. Prim. Fl. Amur. 316.

Carex aristata Boeck.: Franch. Car. As.-Or. 82, p. p.

Carex trichocarpa *var. orthostachys* Kük. in Bot. Centralb. LXXVII. 92.

Carex amurensis *var. mandschurica* Kük. in Bot. Centralb. LXXVII. 95.

Carex glaberrima Meinsh. in Act. Hort. Petrop. XVIII. 369, p. p.

Carex Raddei Kom. Fl. Mansh. I. 381, non Kük.

Carex aristata R. Br. var. *hirtaeformis* Lévl. et Vnt. in Bull. Acad. Géogr. Bot. XI. 68.

Carex aristata R. Br. var. *orthostachys* C. B. Clarke, in Forb. et Hemsl. Ind. Fl. Sin. III. 272, p. p.; Matsum. Ind. Pl. Jap. II. 1: 100.

Carex aristata R. Br. subsp. *orthostachys* Kük. Cyp.-Car. 753; Mak. & Nem. Fl. Jap. 1331.

NOM. JAP.

HAB. *Yezo*. Iburi.

Kuriles. Kunashiri.

Southern Saghalien. Shikka.

DISTRIB. Saghalien, Kuriles, Yezo, Mongolia, China, Manchuria, Amur and Siberia.

535. *Carex drymophila* Turcz. in Bull. Soc. Nat. Moscou (1838) 104 (*nom. solum*); Kom. Fl. Mansh. I. 383; Kük. Cyp.-Car. 755; Miyabe & Miyake, Fl. Saghal. 553; Kudo, Contr. Fl. N. Saghal. 25, et Rep. Veg. N. Saghal. 76; Mak. & Nem. Fl. Jap. 1340; Hult. Fl. Kamtch. I. 212; Kom. Fl. Penins. Kamtsch. I. 269.

Carex orthostachys var. *drymophila* Maxim. Prim. Fl. Amur. 316.

Carex amurensis var. *drymophila* Kük. in Bot. Centralb. LXXVII. 96.

Carex Turczaninowiana var. *Beaurepairei* Lévl. et Vnt. in Bull. Soc. d'Agric. Sarthe LX. 79.

NOM. JAP. *Yezo-kasasuge*.

HAB. *Yezo*. Iburi, Tokachi.

Southern Saghalien. Odomari, Tomarioro, Shikka.

Northern Saghalien. Alexandrowsk, Tim, Tymi.

DISTRIB. Saghalien, Yezo, Korea, Manchuria, China, Ussuri, Amur, Kamtchatka, Ajan and E. Siberia.

var. **reducta** Kük. l. c. 755; Mak. & Nem. l. c.

HAB. *Yezo*. Ishikari, Kushiro.

DISTRIB. Endemic plant.

var. **akanensis** Kük. l. c. 756 et Car. Sachal. 37; Nakai, Fl. Korea. II. 335; Miyabe & Miyake, Fl. Saghal. 554; Mak. & Nem. l. c.; Hult. l. c. 213.

Carex orthostachys var. *hirtaeformis* Maxim. Prim. Fl. Amur. 316; Fr. Schm. Fl. Sachal. 198, non Pers.

Carex Bongardiana Fr. Schm. Fl. Sachal. 197.

Carex akanensis Franch. in Bull. Soc. Philom. Paris, 8 sér. VII. 51, et Car. As.-Or. 83; Matsum. Ind. Pl. Jap. II. 1: 98; Kom. Fl. Penins. Kamtsch. I. 271.

Carex hirta Franch. Car. As.-Or. 86, non L.

Carex amurensis Kük. in Bot. Centralb. LXXVII. 94; Kom. Fl. Mansh. I. 382.

NOM. JAP. *Akan-kasasuge*.

HAB. *Yezo*. Ishikari, Kushiro, Nemuro.

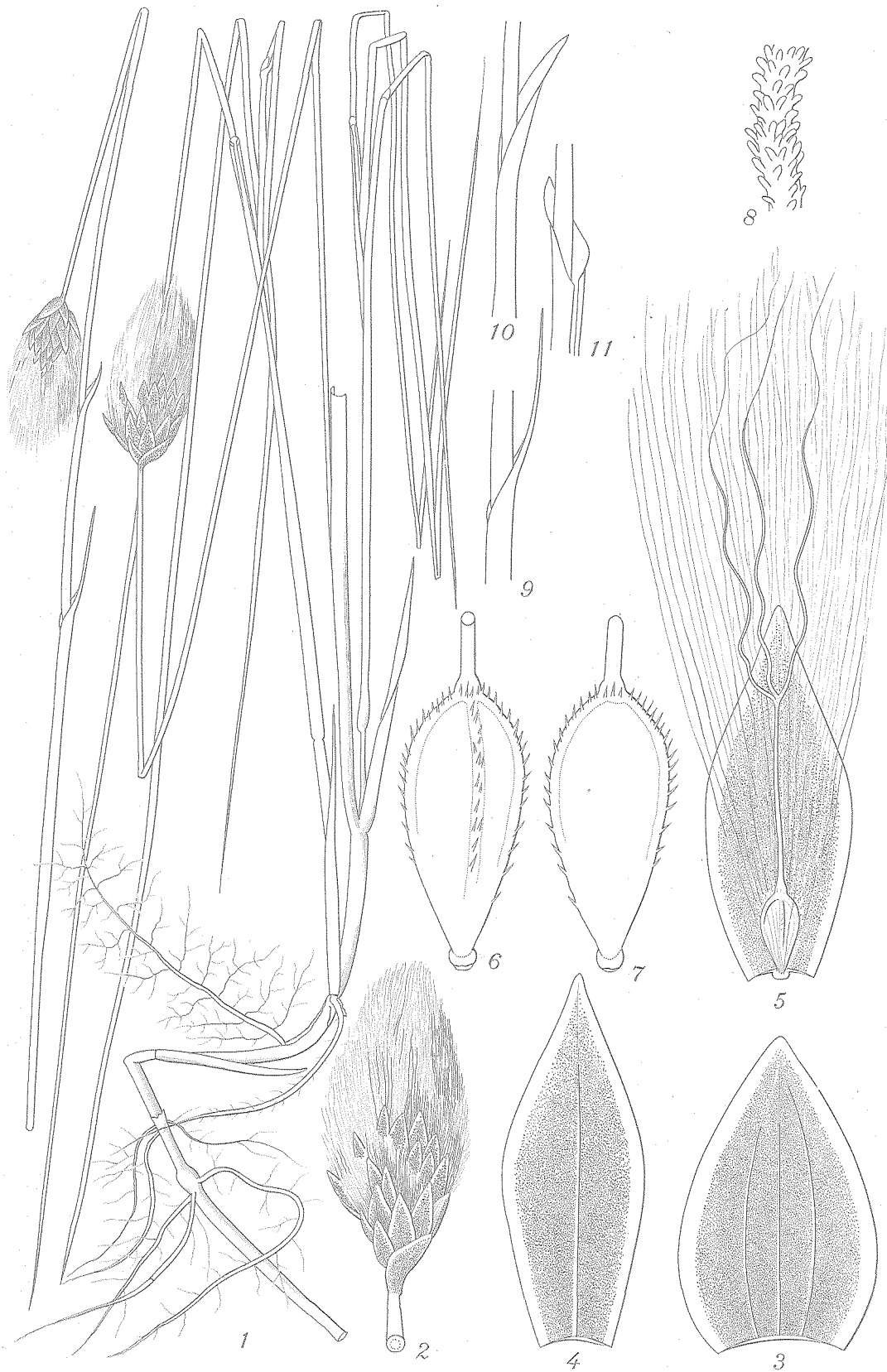
Southern Saghalien. Odomari, Ushoro, Toyohara, Shikka.

DISTRIB. *Yezo*, *Saghalien*, *Korea*, *Manchuria*, *Amur*, *Dahuria* and *Kamtchatka*.

Explanation of the Plate IV.

Eriophorum strigosum Miyabe et Kudo

1. Entire plant.
2. Spike. ($\times 2$).
3. Sterile scale. ($\times 10$).
4. Fertile scale. ($\times 10$).
5. Flower with a scale. ($\times 10$).
6. Achene, the dorsal view. ($\times 40$).
7. Achene, the ventral view. ($\times 40$).
8. A part of the stigma. ($\times 166$).
- 9-11. Cauline leaves. ($\times 10$).



K. Hino del.

Eriophorum strigosum Miyabe et Kudo.

K. Nakazawa sculp.