Preliminary Report on the Flora of Southern Hidaka, Hokkaido (Yezo). XXVIII.

By

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Brachypodium P. BEAUVOIS.

643⁽⁸⁾***Brachypodium sylvaticum** P. BEAUVOIS, Ess. Agrost. p. 101, t. 3, f. 11 (1812).—NEVSKI in Fl. URSS. II, p. 594 (1934).

Syn. *Festuca sylvatica* HUDSON, Fl. Angl. ed. 1, p. 38 (1762).

Festuca pinnata β. *sylvatica* HUDSON, l. c. ed. 2, I, p. 48 (1778).

var. **villosum LEJEUNE et COURTOIS, Comp. Fl. Belg. I, p. 100 (1828).

Syn. *Bromus dumosus* VILLARS, Hist. Pl. Dauph. II, p. 119 (1787).

Brachypodium sylvaticum α. *spiculis villosis* GAUDIN, Fl. Helv. I, p. 305 (1828).

Brachypodium gracile var. *pubescens* PETERMANN, Fl. Lips. p. 70 (1838).

Brachypodium sylvaticum β. *dumosum* BECK, Fl. N.-Öster. I, p. 110 (1890).

Brachypodium sylvaticum P. BEAUVOIS, l. c.—KOIDZUMI, Fl. Symb. Or.-Asia. p. 80 (1930).—MIYABE et KUDO, Fl. Hokk. & Saghal. II, p. 174 (1931).—HONDA in Journ. Jap. Bot. XII, p. 153 (1936).

Brachypodium miserum (non KOIDZUMI) HONDA, Monogr. Poac. Jap. p. 32 (1930) pro parte.

Nom. Jap. *Yezo-yamakamojigusa* (KOIDZUMI).

Hab. at the foot of Mt. Apoi. Fl. Jul.—early Aug.

*var. **leiospicum** HARA, nom. nov.

Syn. *Bromus gracilis* (non LEYSSER 1761) WEIGEL, Obs. Bot. p. 15, t. 1, f. 11 (1772).

Brachypodium sylvaticum β. *spiculis glaberrimis, scabris* GAUDIN, l. c. (1828).

Brachypodium sylvaticum α. *typicum* BECK, l. c. (1890).

Brachypodium miserum (non KOIDZUMI) NAKAI, Veg. Apoi p. 73 (1930).—HONDA, l. c. (1930) pro parte.—MIYABE et KUDO, l. c. p. 175 (1931).—HONDA, l. c. p. 152 (1936) pro parte.

Brachypodium japonicum (non MIQUEL) TATEW., Veg. Apoi p. 117 (1928).

Brachypodium sylvaticum var. *miserum* KOIDZUMI, l. c. (1930) quoad descrip. et specim.

Folia vaginaque villosa. Glumae lemmaeque glabrae laeves vel leviter scabridae.

Nom. Jap. *Ke-yamakamojigusa* (nov.).

Hab. at the foot of Mt. Apoi, Samani, etc. Fl. Jul.

Dist. sp. Kyushu, Shikoku, Honshu, Yezo, Kuriles, Saghalien, Korea, China, Manchuria, Siberia, Tibet, Malaysia, India, Asia Minor, Caucasus, Europe and N. Africa.

Var. *leiospicum* is rather uncommon in Europe, although it is sometimes treated as var. *typicum*. *B. sylvaticum* var. *miserrimum* (HONDA) seems to be a depauperate form of that variety. Dr. KOIDZUMI referred specimens with villose leaves to his var. *miserum* which is based on *Festuca misera* THUNBERG, but according to THUNBERG's original description, it has glabrous leaves, and should be regarded as a separate variety which may be identical with var. *luzoniense* HARA (*B. sylvaticum* subsp. *luzoniense* HACKEL in Philip. Journ. Sci. I, suppl. p. 269 (1906)).

Bromus L.

644⁽⁹⁾***Bromus remotiflorus** OHWI in Acta Phytotax. et Geobot. IV, p. 58 (1935).

Syn. *Festuca pauciflorus* THUNBERG, Fl. Jap. p. 52 (1784).—HONDA, Monogr. Poac. Jap. p. 55 (1930).—MASAMUNE, Fl. & Geobot. Stud. Yakusima p. 471 (1934).

Festuca remotiflora STEUDEL, Syn. Glum. I, p. 315 (1855).

Bromus pauciflorus (non SCHUMACHER 1801) HACKEL in Bull. Herb. Boiss. VII, p. 713 (1899).—NAKAI, Veg. Apoi p. 73 (1930).—MIYABE et KUDO, Fl. Hokk. & Saghal. II, p. 172 (1931).

Nom. Jap. *Kitsune-gaya*.

Hab. at the foot of Mt. Apoi, Nikanbetsu valley, etc. Fl. Jul.

Dist. Kyushu, Shikoku, Honshu, Yezo, Korea and China.

Brylkinia FR. SCHMIDT.

645⁽¹⁰⁾***Brylkinia caudata** FR. SCHMIDT, Reis. Amur. u. Sachal. p. 199, t. VIII, f. 22–27 (1868).—NAKAI, Veg. Apoi p. 73 (1930).—HONDA, Monogr. Poac. Jap. p. 89 (1930).—MIYABE et KUDO, Fl. Hokk. & Saghal. II, p. 155 (1931).—ROCHEVITZ in Fl. URSS. II, p. 354 (1934).

Syn. *Alopecurus caudatus* THUNBERG in Nova Acta Ups. III, p. 208 (1780).

Ehrharta caudata MUNRO in A. GRAY, Bôt. Jap. p. 420 in adnota (1859).

Nom. Jap. *Hogaeri-gaya*.

Hab. at the foot of Mt. Apoi. Fl. Jul.

Dist. Shikoku, Honshu, Yezo, S. Kuriles and Saghalien.

Calamagrostis ADANSON.

646⁽¹¹⁾***Calamagrostis epigeios** ROTH, Tent. Fl. Germ. I, p. 34 (1788).—NAKAI, Veg. Apoi p. 73 (1930).—HONDA, Monogr. Poac. Jap. p. 160 (1930).—MIYABE et KUDO, Fl. Hokk. & Saghal. II, p. 137 (1931).—ROSHEVITZ in Fl. URSS. II, p. 194 (1934).—HITCHCOCK, Man. Grass. U. S. p. 319, f. 643 & p. 820 (1935).—OHWI in Acta Phytotax. et Geobot. V, p. 228 & 238 (1936). Syn. *Arundo epigeios* LINNAEUS, Sp. Pl. ed. 1, I, p. 81 (1753).

Nom. Jap. *Yama-awa*.

Hab. at the foot of Mt. Apoi, Utabetsu, etc. Fl. Jul.—early Aug.

Dist. Formosa, Kyushu, Shikoku, Honshu, Yezo, S. Kuriles, Saghalien, Korea, China, Manchuria, Ussuri, Dahuria, Siberia, Caucasus, Europe and N. America.

647⁽¹²⁾***Calamagrostis hakonensis** FRANCHET et SAVATIER, Enum. Pl. Jap. II, p. 168 (1876) nom. nud. & p. 599 (1877).—NAKAI, Veg. Apoi p. 73 (1930).—HONDA, Monogr. Poac. Jap. p. 167 (1930).—MIYABE et KUDO, Fl. Hokk. & Saghal. II, p. 141 (1931).—MASAMUNE, Fl. & Geobot. Stud. Yakusima p. 480 (1934).—OHWI in Acta Phytotax. et Geobot. V, p. 232 & 240 (1936).

Nom. Jap. *Hime-nogariyasu*.

Hab. in grassy places of Mt. Apoi, Horoman valley, etc. Fl. Jul.—mid. Aug.

Dist. Kyushu, Shikoku, Honshu, Yezo, S. Kuriles and China.

648⁽¹³⁾***Calamagrostis Langsdorfi** TRINIUS, Gram. Unifl. Diss. p. 225, t. IV, f. 10 (1824) (ut *Langsdorffii*).—NAKAI in Bot. Mag. Tokyo XL, p. 488 (1926).—HULTÉN, Fl. Kamt. I, p. 100 (1927).—TATEW., Veg. Apoi p. 117 (1928).—NAKAI, Veg. Apoi p. 74 (1930).—HONDA, Monogr. Poac. Jap. p. 168 (1930).—MIYABE et KUDO, Fl. Hokk. & Saghal. II, p. 139 (1931).—KOMAROV et KLOB.-ALISOVA, Key. Pl. Far East. Reg. URSS. I, p. 186, t. 51 (1931).—ROSHEVITZ in Fl. URSS. II, p. 213 (1934).—TATEWAKI et KOBAYASHI, Contr. Fl. Aleut. Is. p. 94 (1934).—OHWI in Acta Phytotax. et Geobot. V, p. 229 & 238 (1936).

Syn. *Arundo Langsdorfi* LINK, Enum. Hort. Berol. I, p. 74 (1821).

Calamagrostis canadensis MICHAUX var. *Langsdorfi* INMAN in Rhodora 24, p. 143 (1922).—STEBBINS in Rhodora 32, p. 43 (1930) quoad syn.

Nom. Jap. *Iwa-nogariyasu*.

Hab. in grassy places of Mt. Apoi, Mt. Ruchishi, Mt. Rakko, etc. Fl. Jul.

Dist. Shikoku, Honshu, Yezo, Kuriles, Saghalien, Korea, China, Manchuria, Amur, Dahuria, Kamtchatka, Siberia and Aleutian.

649⁽¹⁴⁾***Calamagrostis sachalinensis** FR. SCHMIDT, Reis. Amur. u. Sachal. p. 202, t. VIII, f. 8-14 (1868).—TATEW., Veg. Apoi p. 117 (1928).—NAKAI, Veg. Apoi p. 74 (1930).—HONDA, Monogr. Poac. Jap. p. 172 (1930).—MIYABE et KUDO, Fl. Hokk. & Saghal. II, p. 141 (1931).—ROSHEVITZ in Fl. URSS. II, p. 221 (1934).—OHWI in Acta Phytotax. et Geobot. V, p. 231 & 239 (1936).

Nom. Jap. *Takane-nogariyasu* (MATSUMURA).

Hab. in grassy slopes on Mt. Apoi, Mt. Horoman, Mt. Toyoni, Mt. Rakko, etc. Fl. Jul.—mid. Aug.

Dist. Shikoku, Honshu, Yezo, Kuriles, Saghalien and Kamtchatka.

Deschampsia P. BEAUVOIS.

650⁽¹⁵⁾**Deschampsia caespitosa** P. BEAUVOIS, Ess. Agrost. p. 91, t. 18, f. 3 (1812).—HONDA, Monogr. Poac. Jap. p. 138 (1930).—MIYABE et KUDO, Fl. Hokk. & Saghal. II, p. 146 (1931).—TATEWAKI & KOBAYASHI, Contr. Fl. Aleut. Is. p. 97 (1934).—MASAMUNE, Fl. & Geobot. Stud. Yakusima p. 477 (1934).—HITCHCOCK, Man. Grass. U. S. p. 289, f. 576 & p. 833 (1935).
Syn. *Aira caespitosa* LINNAEUS, Sp. Pl. ed. 1, I, p. 64 (1753).

subsp. **orientalis** HULTÉN, Fl. Kamt. I, p. 109, pl. 5, fig. a, b (1927).

Syn. *Deschampsia borealis* ROSHEVITZ in Fl. URSS. II, p. 246 & 750 (1934)
saltem pro parte.

Nom. Jap. *Yezo-miyama-komesusuki* (nov.).

Hab. at C. Erimo. Fl. Aug.

Dist. sp. Formosa, Kyushu, Shikoku, Honshu, Yezo, Kuriles, Saghalien, Korea, China, Manchuria, Amur, Dahuria, Kamtchatka, Siberia, Himalaya, Caucasus, Europe and N. America.

Our specimen has big spikelets about 5 mm. long. Glumes are 3.5-4.5 mm. long.

Diarrhena P. BEAUVOIS (nom. conserv.).

651⁽¹⁶⁾***Diarrhena japonica** FRANCHET et SAVATIER, Enum. Pl. Jap. II, p. 603 (1877).—TATEW., Veg. Apoi p. 117 (1928).—NAKAI, Veg. Apoi p. 74 (1930).—HONDA, Monogr. Poac. Jap. p. 94 (1930).—MIYABE et KUDO, Fl. Hokk. & Saghal. II, p. 154 (1931).

Syn. *Onœa japonica* FRANCHET et SAVATIER, l. c. p. 178 (1876).

Nom. Jap. *Tatsunohige*.

Hab. in forests at the foot of Mt. Apoi. Fl. Jul.

Dist. Kyushu, Shikoku, Honshu and Yezo.

Digitaria HEISTER.

652⁽¹⁷⁾ **Digitaria ischaemum** MUEHLENBERG, Descr. Gram. Amer. p. 131 (1817).—HITCHCOCK, Man. Grass. U. S. p. 557, f. 1162 & p. 836 (1935).

Syn. *Panicum lineare* (non L. 1762) KROCKER, Fl. Siles. I, p. 95 (1787).

Panicum ischaemum SCHREBER ex SCHWEIGGER, Spec. Fl. Erlang. p. 16 (1804).

Digitaria linearis (non PERSOON 1805) CREPIN, Man. Fl. Belg. ed. 2, p. 335 (1866).—ROSHEVITZ in Fl. URSS. II, p. 28 (1934).

Syntherisma Ischaemum NASH in N. Amer. Fl. 17-2, p. 151 (1912).—

HONDA, Monogr. Poac. Jap. p. 292 (1930).—MIYABE et KUDO, Fl.

Hokk. & Saghal. II, p. 115 (1931).—MASAMUNE, Fl. & Geobot. Stud.

Yakusima p. 493 (1934).

Nom. Jap. *Aki-mehijiwa* (MAKINO).

Hab. near Saruru. Fl. Aug.

Dist. Formosa, Liukiu, Kyushu, Shikoku, Honsyu, Yezo, Saghalien, Korea, China, Ussuri, Amur, Dahuria, Siberia, Caucasus and Europe. Naturalized in America.

Echinochloa P. BEAUVOIS.

653⁽¹⁸⁾ ****Echinochloa crusgalli** P. BEAUVOIS, Ess. Agrost. p. 53, t. 11, f. 2 (1812).—HONDA in Bot. Mag. Tokyo XXXVII, p. 119 (1923); Monogr. Poac. Jap. p. 263 (1930).—MIYABE et KUDO, Fl. Hokk. & Saghal. II, p. 116 (1931).—ROSHEVITZ in Fl. URSS. II, p. 32 (1934).—HITCHCOCK, Man. Grass. U. S. p. 692, f. 1553 & p. 839 (1935).

Syn. *Panicum Crusgalli* LINNAEUS, Sp. Pl. ed. 1, I, p. 56 (1753).

subsp. **genuina** HONDA, l. c. p. 120 (1923); l. c. (1930).

var. **longiseta** (TRINIUS) HARA, comb. nov.

Syn. *Panicum crusgalli* var. *longiseta* TRINIUS, Sp. Gram. Icon. II, t. 162 (1829) in textu.

Panicum crusgalli var. *longisetum* DÖLL, Fl. Bad. I, p. 232 (1857).

Echinochloa crusgalli subsp. *genuina* var. *echinata* HONDA, l. c. p. 120 (1923); l. c. p. 264 (1930).—MIYABE et KUDO, l. c. p. 117 (1931).

Nom. Jap. *Midzu-bie*, *Kuma-bie*.

Hab. at the foot of Mt. Apoi. Fl. Aug.

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

Elymus L.

654⁽¹⁹⁾ ***Elymus dahuricus** TURCZANINOW [Catal. Pl. Baic.-Dah. no. 1331 (1838) nom. nud.] in Bull. Soc. Imp. Nat. Moscou XXIX-1, p. 61 (1856).—

GRISEBACH in LEDEBOUR, Fl. Ross. IV, p. 331 (1853).—NAKAI, Veg. Apoi p. 74 (1930).—HONDA, Monogr. Poac. Jap. p. 18 (1930).—MIYABE et KUDO, Fl. Hokk. & Saghal. II, p. 179 (1931).

Syn. *Clinelymus dahuricus* NEVSKI in Bull. Jard. Bot. Acad. Sci. URSS. XXX, p. 645 (1932); in Fl. URSS. II, p. 691 (1934).

Nom. Jap. *Hama-mugi*.

Hab. in coastal places of Mt. Apoi. Fl. Aug.

Dist. Kyushu (Tsushima), Honshu, Yezo, S. Kuriles, Saghalien, Korea, N. China, Manchuria, Ussuri, Dahuria, Mongolia, Siberia and Turkestan.

Two forms are found in this district. One is green in all parts (f. *viridis*), and the other entirely glaucous. (f. *glaucus*).

655⁽²⁰⁾ **Elymus mollis** TRINIUS in SPRENGEL, Neue Entd. II, p. 72 (1821).—HONDA, Monogr. Poac. Jap. p. 20 (1930).—MIYABE et KUDO, Fl. Hokk. & Saghal. II, p. 177 (1931).—KOMAROV et KLOB.-ALISOVA, Key Pl. Far East. Reg. USSR. I, p. 241, t. 66 (1931).—NEVSKI in Fl. URSS. II, p. 695 (1934).—TATEWAKI et KOBAYASHI, Contr. Fl. Aleut. Is. p. 98 (1934).—HITCHCOCK, Man. Grass. U. S. p. 249 f. 479, & p. 845 (1935).

Syn. *Elymus arenarius* L. subsp. *mollis* HULTÉN, Fl. Kamt. I, p. 153 (1927).

Leymus mollis (TRINIUS) HARA, mss.

Nom. Jap. *Hama-ninniku*.

Hab. on sandy coasts of C. Erimo, and between Shoya & Saruru. Fl. Jul.

Dist. Honshu, Yezo, Kuriles, Saghalien, Korea, Ussuri, Amur, Ochotsk, Kamtchatka, Anadyr, Aleutian, N. America and Greenland.

Festuca L.

656⁽²¹⁾* **Festuca ovina** LINNAEUS, Sp. Pl. ed. 1, I, p. 73 (1753).—TATEW., Veg. Apoi p. 117 (1928).—NAKAI, Veg. Apoi p. 74 (1930).—HONDA, Monogr. Poac. Jap. p. 47 (1930).—MIYABE et KUDO, Fl. Hokk. & Saghal. II, p. 168 (1931).—MASAMUNE, Fl. & Geobot. Stud. Yakusima p. 471 (1934).—HITCHCOCK, Man. Grass. U. S. p. 76, f. 101 & p. 860 (1935).

Nom. Jap. *Ushinokegusa*.

Hab. on Mt. Apoi and Mt. Horoman. Fl. Jul.

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

This and the next species are treated here in a wide sense.

657⁽²²⁾** **Festuca rubra** LINNAEUS, Sp. Pl. ed. 1, I, p. 74 (1753).—HONDA,

Monogr. Poac. Jap. p. 51 (1930).—MIYABE et KUDO, Fl. Hokk. & Saghal. II, p. 169 (1931).—HITCHCOCK, Man. Grass. U. S. p. 75 f. 97 & p. 861 (1935).

Nom. Jap. *Ô-ushinokegusa*.

Hab. at the foot of Mt. Apoi, C. Erimo, etc. Fl. Jul.

Dist. Honshu, Yezo, Kuriles, Saghalien, Korea, China, Manchuria, Amur, Dahuria, Siberia, Himalaya, Caucasus, Europe, Africa and N. America.

Glyceria R. BROWN (nom. conserv.).

658⁽²³⁾ ***Glyceria alnasteretum*** KOMAROV in FEDDE, Rep. Sp. Nov. XIII, p. 87 (1914); Fl. Penin. Kamt. I, p. 182 (1927).—HULTÉN, Fl. Kamt. I, p. 138 f. 11 (1927).—MIYABE et KUDO, Fl. Hokk. & Saghal. II, p. 166 (1931).—OHWI in Acta Phytotax. et Geobot. II, p. 280 (1933).—KOMAROV, Fl. URSS, II, p. 457 (1934).—HANDEL—MAZZETTI, Symb. Sin. VII-5, p. 1285 (1936) in nota. Syn. *Glyceria remota* var. *japonica* HACKEL in Bull. Herb. Boiss. VII, p. 712 (1899).

Glyceria arundinacea (non KUNTH) HONDA, Monogr. Poac. Jap. p. 63 (1930).—MIYABE et KUDO, l. c. (1931).

Nom. Jap. *Miyama-dojôtsunagi*.

Hab. along Panke R. Fl. Jul.

Dist. Honshu, Yezo, Kuriles and Kamtchatka.

659⁽²⁴⁾ ****Glyceria leptolepis*** OHWI in Bot. Mag. Tokyo XLV, p. 381 (1931) excl. syn. HULTÉN.

Syn. *Glyceria aquatica* (non WAHLENBERG) TATEW., Veg. Apoi p. 117 (1928).—NAKAI, Veg. Apoi p. 75 (1930).—HONDA, Monogr. Poac. Jap. p. 62 (1930).—MIYABE et KUDO, Fl. Hokk. & Saghal. II, p. 165 (1931).

?*Glyceria ussuriensis* KOMAROV, Fl. URSS. II, p. 460 & 758 (1934).

Nom. Jap. *Hirohano-dojôtsunagi*.

Hab. in humid places at the foot of Mt. Apoi. Fl. Aug.

Dist. Kyushu, Honshu, Yezo, Saghalien, Korea and Ussuri?

Hierochloë R. BROWN (nom. conserv.).

660⁽²⁵⁾ ****Hierochloë odorata*** P. BEAUVOIS, Ess. Agrost. p. 164, pl. 12, f. 5 (1812) (ut *Hierochloa*).—HITCHCOCK, Man. Grass. U. S. p. 527 f. 1111 & p. 869 (1935).

Syn. *Holcus odoratus* LINNAEUS, Sp. Pl. ed. 1, II, p. 1048 (1753).

*var. ***pubescens*** KRYLOV, Fl. Alt. p. 1553 (1914).

Syn. *Hierochloë Bungeana* TRINIUS in Mém. Acad. Sci. St.-Petersb. ser. 6, V, p. 82 (1839-40).—ROSHEVITZ in Fl. URSS. II, p. 62 (1934).—

MIYABE et TATEWAKI in Trans. Sapporo Nat. Hist. Soc. XV, p. 46 (1937).

Hierochloe odorata var. *sachalinensis* PRINTZ in Kgl. Norsk. Vidensk. Selsk. Skr. 1916-3, p. 8, t. 1 (1917).

Hierochloe odorata (non P. BEAUVOIS) TATEW., Veg. Apoi p. 116 (1928).—HONDA, Monogr. Poac. Jap. p. 220 (1930) pro major. part. —MIYABE et KUDO, Fl. Hokk. & Saghal. II, p. 126 (1931).

Hierochloe odorata var. *Trautvetteriana* V. PETROV, Fl. Jakut. I, p. 130, f. 39 (1930).

Hierochloe odorata subsp. *pubescens* (KRYLOV) HARA, mss.

Nom. Jap. *Kôbô*.

Hab. in grassy places at the foot of Mt. Apoi, Samani, C. Erimo, etc. Fl. May—Jun.

Dist. Kyushu, Honshu, Yezo, Kuriles, Saghalien, Korea, China, Ussuri, Amur, Mongolia, Kamtchatka and Siberia.

Japanese specimens have generally retrorsely pubescent sheaths and glabrescent lemmas. The distinction between this form and the typical one, however, is not clear as HULTÉN had already pointed out in his Fl. Kamt. I, p. 86. In Honshu, forms with glabrous sheaths or hairy lemmas or with sheaths annularly hairy only at the top (var. *annulata* V. PETROV) are also sometimes found. The specimen of the district has often low stems about 10 cm. high. Its spikelets are large (about 5 mm. long). Its leaves often hairy on the upper surface. Though I don't see the original description of *H. Bungeana*, it is strange to me that STEUDEL describes that species as having glabrous sheaths.

Hystrix MOENCH.

661⁽²⁶⁾ ****Hystrix longe-aristata** HONDA, Monogr. Poac. Jap. p. 14 (1930).

Syn. *Asprella sibirica* var. *longe-aristata* HACKEL in Bull. Herb. Boiss. ser. 2, IV, p. 525 (1904).

Nom. Jap. *Adzuma-gaya*.

Hab. in shady places at the Horoman side of Mt. Apoi. Fl. Jul.

Dist. Kyushu, Honshu, Yezo and Korea.

(To be continued.)