On Some New or Little Known Plants from Northern China.

By

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1. **Panicum trypheron** SCHULT. Mant. II. 244; Hook. f. Fl. Br. Ind. VII. p. 47; RENDLE in Journ. Linn. Soc. XXXVI. p. 333.

Hab. North China: dry sandy plain of Nan-haitze near Peking (Sept. 1906. fl. fr.); Manchuria: Moukden (21. Aug. 1914 fr.).

This south Asiatic species hitherto only known from Tientsin.

2. **Deschampsia chinensis** M.

Root fibrous. Culm tufted, smooth, very slender, capillary, 20–25 cm. long. Leaves almost all radical, 3–5 cm. long, very narrow, capillary, straight; ligule short, truncate. Panicle spreading, sub-nutant, trichotomous; branches few, slender, capillary, scabrous; branchlets short alternate. Spikelets 6 mm. long, 2-flowered, purple. Glume I smallest, 2.5–3 mm. long, ovate-lanceolate, acute, 1-nerved; gl. II 3.5 mm. long, 3-nerved, pilose at the base; gl. III 5–6 mm. long, acuminate, pointed to the awn, 5-nerved, ovate, purple striped at the tip. Palea 4.5 mm. long, narrow ovate, 2 keeled; keel setose. Anthers small.

Very closely related to *Aira atropurpurea* and *D. flexuosa*, but easily distinguishable by rather small spikes and gl. III acute or acuminate, not truncated.

Hab. North China: near the summit of Mt. Siaowutaishan, about 3000 m. alt. (31. Jul. 1906 fl.).

3. **Pappophorum brachystachyum** JAUB. et SPACH. "Ill. Pl. Orient. IV. t. 824"; STEUD. Syn. Gram. p. 200. *Enneapogon*

brachystachyus STAPF. RENDLE in Journ. Linn. Soc. XXXVI. p. 407.

Hab. North China: Peking, on the dry wall of the city (Aug. flow.), very common; Eastern Mongolia: Shih-chia-tzu 十家子 (S. HASHIMOTO 29. Aug. 1910).

4. **Melica Gmelini** TURCZ. STEUD. Syn. Gram. p. 289; RGL. Tent. Fl. Ussur. p. 169; MAXIM. Prim. Fl. Amur. p. 322; FRANCH. Pl. David. I. p. 336; KOMAROV, Fl. Mansh. I. p. 296; RENDLE in Journ. Linn. Soc. XXXVI. p. 418.

Hab. North China: at the summit of Mt. Pohuashan alt. 2500 m (Jul. 1905); alpine region of Mt. Siao-wutaishan (Jul. 1906); Mt. Wutaishan (Jul. 1907).

Northern Manchuria: Keelin, along the river Soongari (Sung-hua-chiang). (June 1914. T. KACHI coll).

5. **Bromus inermis** LEYSS. Fl. Hall. p. 16; STEUD. Syn. Gram. p. 321; STAPF in HOOK. f. Fl. Br. Ind. VII. p. 357; ASCHERS. u. GRAEBN. Syn. Mitteleur. Fl. II. 1. p. 589.

Hab. Shan-hsi: Eastern peak of Mt. Wutaishan (Jul. 1907. and Y. NAGAI Jul. 1908).

6. **Stipa mongholica** TURCZ. STEUD. Syn. Gr. p. 132; HOOK. f. Fl. Br. Ind. p. 229; RENDLE in Journ. Linn. Soc. XXXVI. p. 382; *Ptilagrostis mongolica* GRISEB. in LEDEB. Fl. Ross. IV. p. 447; TURCZ. Fl. Baic. Dah. II. 1. p. 302.

Hab. Prov. Chihli: at the top of Mt. Siao-wutai (Jul. 1906); Shanhsi: Mt. Wutaishan (Jul. 1907 fl.).

7. **Carex** (Hymenochlaenae) **capillaris** L. var. **pohuashanensis** M. Rhizome dense caespitose. Stem 20–35 cm. long, strict, filiform, obtuse-angled, smooth, leafy below. Leaves much shorter than the culm, 10–25 cm. long, 3 mm. broad, flat, often prolonged and forming scabrous acumen. Vagina brownish at base, margin more or less fibrous. Spikelets 4–5; terminal one staminate or sometimes gynaeandrous, linear, 7–10 mm. long, erect or nutating; peduncles slender scabrous. Lateral three or four spikelets ♀ oblong 8–13 flowered; the lowest long pedunculate 15–18 mm. long, 3 mm. diam. lax-flowered, subcernuous; bracts long, foliaceous. Glumes ♂ obovate-oblong, rotundate, margin hyaline; glumes ♀ obovate 2 mm. long, apex rounded

or obtuse or shortly acuminate, green-keeled, margin broad, scabrous. Rachis scaberulous. Utricles 3 mm. long, ovate-elliptical, membranaceous, brown, nerveless, apex produced into a scabrous beak. Nuts trigonous, style-base swollen, stigma 3.

Very near to "forma 2 major" of KUEKENTHAL (Pflanzereich IV. 20. p. 590).

Hab. Chihli: among grasses, near the top of Mt. Po-huashan (Jul. 1908); Mt. Siao-wutaishan (Jul. 1906).

8. *Listera Bungeana* M.

Root slender, fibrous. Stem erect, slender, 2-foliate, about 20 cm. high. Leaves opposite, sessile, orbiculate-ovate, 1½ cm. long, 1.8 cm. broad, apex obtuse, membranaceous. Raceme pubescent 5–7 flowered, flowers light brown. Dorsal sepal ovate-obtuse, 3.5 mm. long, erect; lateral sepals 2.5 mm. long, broad lanceolate, acute. Petals subequal; labellum oblong. 6 mm. long, 2.5 mm. broad, 2-lobed, lobes entire obtuse, median line thickened. Bracts ovate acute or obtuse, 3 mm. long; pedicels slender, shorter than the bracts.

Hab. Chihli: near the summit of Mt. Pohuashan, about 2500 m. alt. (Jul. 1905).

Very closely related to *L. Eschscholziana* CHAM.

9. *Pteroceltis Tatarinowi* MAXIM. Mém. Biol. IX. p. 26 cum. fig., Fl. As. Or. Fragm. p. 53; BENTH. et HOOK. Gen. Pl. III. p. 354; FORBES et HEMSL. in Journ. Linn. Soc. XXVI. p. 451; SCHNEIDER, Ill. Laubholzk. I. p. 227.

Hab. Shan-tung: Lung tung near Chi-nanfu (FUKUYAMA 22. May 1915 fr.).

It seems rather good to exclude this species from Peking flora. There is no wild plant.

10. *Holosteum umbellatum* L. Sp. Pl. ed. 1. p. 130; DC. Prodr. I. p. 393; FENZL. in LEDEB. Fl. Ross. I. p. 373; EDGEWORTH et HOOK. in HOOK. f. Fl. Br. Ind. I. p. 227.

Hab. Chihli: near the summit of Mt. Siaowutaishan (Jul. 1906 fr.) New to Chinese flora.

11. *Clematis Matsumurana* M.

Scandent. Leaves long-petiolate, pinnate; segments 3–5, oblong-ovate, obtuse, 5–5.5 cm. long, 1–2.5 cm. broad, coria-

ceous, glabrous, glaucous, more or less shining above, very distinctly reticulated; common petioles 10 cm. long, petiolules 2 cm. long. Young stem and peduncles hirsute, at length glabrous. Inflorescence axillary, paniculate. Flowers erect, spreading, 2 cm. or more in diam. Sepals white, blackened when dried, 12-18 mm. long, 6 mm. broad, ellipsoid, truncate emarginate, subglabrous. Stamens numerous, shorter than the sepals, 6 mm. long, anthers 2 mm. long, oblong, filaments filiform glabrous.

Hab. Chihli: in a village Chan-tsao near Fan-shan-hsien (Jul. 1905 fl.)

12. **Corydalis Bungeana** TURCZ. Bull. Soc. Not. Mosc. XIX. 1. p. 62; HANCE in Journ. Bot. 1875. p. 130; DEBEAUX, Fl. Shangh. p. 16; FRANCH. Pl. Davd. I. p. 29; FORBES et HEMSL. in Journ. Linn. Soc. XXIII. p. 36; MAXIM. Pl. Chin. Potan. p. 50; PALIBIN, Act. Hort. Petr. XIV. p. 108; KOMAROV, Fl. Mansh. II. p. 348.

Hab. Shan-tung: Lung-tung near Chinanfu (FUKUYAMA May 1915).

13. **Sisymbrium Maximowiezi** PALIBIN. Consp. Fl. Kor. I. P. 18, t. 3; MATSUMURA in Tokyo. Bot. Mag. XVI. p. 17; NAKAI, Fl. Kor. I. p. 58.

Hab. Chihli: Hills near Shanhaikwan (Aug. 1907 fl. fr.); Manchuria: Mt. Laotieh-shan in Port Arthur (Aug. 1914).

14. **Bunias tcheliensis** DEBEAUX, Fl. Tientsin. p. 12; FORBES et HEMSL. in Journ. Linn. Soc. XXIII, p. 49.

Hab. Chihli: Tientsin (G. Otsu May 1908); Eastern Mongolia: Tiaonan-fu (MIYOSHI May 1914; S. HASHIMOTO Aug. 1910).

15. **Chamærhodos grandiflora** BGE. in Ledeb. Fl. Alt. I. p. 431; Fl. Ross. II. p. 34; MAXIM. Ind. Fl. Mongol. p. 481; PALIBIN in Act. Hort. Petr. XIV. p. 117.

Hab. Chihli: Mt. Siao-wutaishan (Jul. 1906). Manchuria: Tailien (Dalny) (K. KONDO Jul. 1914).

16. **Chamærhodos trifida** LEDEB. Fl. Ross. II. p. 34. *C. altaica* var. BUNGE. "Enum. Alt. p. 19."

Eastern Mongolia, east of Jehol without special loc. (R. TORII).