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## ERRATA IN THE LAST NUMBER.

Page 31, line 5 from bottom, for *jesoana* read *jesoana*.

— 33, line 3 from bottom, for *Nashi-ari* read *Kin-ari*.

## A Contribution to the Knowledge of the Flora of Japan.

(Continued from p. 32.)

By

**Tomitarô Makino, Sc. Dr.**

***Paeonia obovata* MAXIM.**

***α. typica* MAKINO.**

*Paeonia obovata* MAXIM. Prim. Fl. Amur (1859), p. 29.

Leaves thinly pubescent beneath.

Nom. Jap. *Benibana-yamashakuyaku*.

*Hab.* JAPAN.

***β. glabra* MAKINO, nov. var.**

Leaves quite glabrous.

Nom. Jap. *Kenashi-benibanayamashakuyaku* (nov.).

*Hab.* JAPAN.

***Paeonia albiflora* PALL.**

***α. spontanea* MAKINO.**

*Paeonia albiflora* PALL. Fl. Ross. II. p. 90, tab. 84.

Flowers white (*f. albiflora*) or rosy (*f. rosiflora*).

Nom. Jap. *No-shakuyaku*.

*Hab.* Korea and Manchu.

***β. hortensis* MAKINO.**

Leaves thicker; leaflets more decurrent below. Flower usually larger and more showy, white, rosy or purple, etc., simple, semi-double or double; stamens sometimes petaloid.

Nom. Jap. *Shakuyaku*.

*Hab.* JAPAN, cultivated.

***Cucumis Melo* L. var. *albida* MAKINO, nov. var.**

Fruit medium-sized, subobovato-ellipsoid, yellowish-pale, smooth; pulp greenish-white, sweet.

Nom. Jap. *Nashi-uri*.

*Hab.* JAPAN, cultivated.

***Raphanus sativus* L. Sp. Pl. p. 669, var. *macropodus* (LÉV.) MAKINO, nov. comb.**

*Raphanus macropodus* LÉV. in FEDDE, Repert. (1912), p. 349.

**forma *raphanistroides* (MAKINO) MAKINO, nov. comb.**

*Raphanus sativus* forma *raphanistroides* MAKINO in Bot. Mag., Tokyo, XXIII. (1909), p. 70.

*Raphanus sativus* var. *raphanistroides* MAKINO. in Journ. Jap. Bot. I. 5 (1917), p. 114, sub fig.

*Raphanus raphanistroides* NAKAI, Cat. Sem. Hort. Bot. Imp. Univ. Tokyo (1913), p. 6.

*Raphanus Raphanistrum* FRANCH. ET SAV. Enum. Pl. Jap. I. p. 39, non L.

*Raphanistrum innocuum* MIQ. Prol. Fl. Jap. (1866-67), p. 7, non MEDIC. excl. syn.

*Raphanus macropodus* var. *spontaneus* NAKAI in Cat. Sem. et Spor. (1920) p. 37.

Nom. Jap. *Hama-daikon* (Beach-Radish).

*Hab.* JAPAN.

This one grows wildy on sandy shore, and it is undoubtedly a form escaped from the cultivated Japanese Radish so-called *Daikon*. The flowers are purpurascens. Root white and carnosose, attaining about 4 cm. in diameter. Leaves more stiff-hairy than those of the cultivated one. Siliques more conspicuously moniliform.

**forma *longissimus* (MAKINO) MAKINO, nov. comb.**

*Raphanus sativus* var. *longissimus* MAKINO in Journ. Jap. Bot. I. 9 (1917), p. 30.

*Raphanus macropodus* var. *longissimus* NAKAI in Cat. Sem. et Spor. (1920), p. 37.

Nom. Jap. *Moriguchi-daikon*, *Hosone-daikon*, *Hadano-daikon*.

*Hab.* JAPAN, cultivated.

**forma gigantissimus** (MAKINO) MAKINO, nov. comb.

*Raphanus sativus* var. *gigantissimus* MAKINO in Journ. Jap. Bot. I. 9 (1917), p. 29 cum fig.

*Raphanus macropodus* var. *gigantissimus* NAKAI in Cat. Sem. et Spor. (1920), p. 37.

Nom. Jap. *Sakurajima-daikon*.

*Hab.* JAPAN, cultivated.

**forma Hōryo** (NAKAI) MAKINO, nov. comb.

*Raphanus macropodus* var. *Hōryo* NAKAI in Cat. Sem. et Spor. (1920), p. 37.

Nom. Jap. *Hōryō-daikon*.

*Hab.* JAPAN, cultivated.

**forma Miyashige** (NAKAI) MAKINO, nov. comb.

*Raphanus macropodus* var. *Miyashige* NAKAI in Cat. Sem. et Spor. (1920), p. 37.

Nom. Jap. *Miyashige-daikon*, *Owari-daikon*.

*Hab.* JAPAN, cultivated.

**forma Nerima** (NAKAI) MAKINO, nov. comb.

*Raphanus macropodus* var. *Nerima* NAKAI in Cat. Sem. et Spor. (1920), p. 38.

Nom. Jap. *Nerima-daikon*.

**subforma a. Akidzumari** (NAKAI) MAKINO, nov. comb.

*Raphanus macropodus* var. *Nerima* f. *Akidzumari* NAKAI in Cat. Sem. et Spor. (1920), p. 38.

Nom. Jap. *Akidzumari*, *Shiridzumari*.

*Hab.* JAPAN, cultivated.

**subforma b. Ōnaga** (NAKAI) MAKINO, nov. comb.

*Raphanus macropodus* var. *Nerima* f. *Ōnaga* NAKAI, l. c.

Nom. Jap. *Ōnaga-daikon*, *Nagatomari*, *Shirinaga*, *Takuan-daikon*.

*Hab.* JAPAN, cultivated.

**forma Shogoin** (NAKAI) MAKINO, nov. comb.

*Raphanus macropodus* var. *Shogoin* NAKAI in Cat. Sem. et Spor. (1920), p. 37.

Nom. Jap. *Shōgoiin-daikon*.

*Hab.* JAPAN, cultivated.

**forma claviformis** MAKINO, nov. f.

Rosette-leaves erect-patent. Root clavate, about 3 decim. long, white.

Nom. Jap. *Tokuri-daikon*.

*Hab.* JAPAN, cultivated.

**forma caudatus** MAKINO, nov. f.

Rosette-leaves erect-patent, light green. Root rather smaller, obovate, about 2½ decim. long, 8 cm. across, rounded and suddenly caudate at the end, acrid.

Nom. Jap. *Ibuki-daikon*, *Nezumi-daikon*, *Karami-daikon*.

*Hab.* JAPAN, cultivated.

**forma Chûrokuanus** MAKINO, nov. f.

Root cylindrical, about 6 decim. long, 1½ decim. across, purplish, with white flesh.

Nom. Jap. *Chûroku-daikon*.

Hab. JAPAN, cultivated.

**forma roseus** (NAKAI) MAKINO, nov. comb.

*Raphanus macropodus* var. *roseus* NAKAI in Cat. Sem. et Spor. (1920), p. 38.

Nom. Jap. *Aka-daikon*. *Murasaki-daikon*.

Hab. JAPAN, cultivated.

**forma sinoruber** MAKINO, nov. f.

Rosette-leaves spreading, deep-green, with reddish-purple petioles and veins. Root depressed, napiform, beautifully reddish-purple.

Nom. *Hinode-daikon*.

Hab. JAPAN, cultivated from China.

**forma Kameidoanus** MAKINO, nov. f.

Rosette-leaves erect. Root gradually attenuated towards the caudate end.

Nom. Jap. *Kameido-daikon*, *Otafuku-daikon*.

Hab. JAPAN, cultivated.

**forma Tokuyama** (NAKAI) MAKINO, nov. comb.

*Raphanus macropodus* var. *Tokuyama* NAKAI in Cat. Sem. et Spor. (1920), p. 37.

Nom. Jap. *Tokuyama-daikon*.

Hab. JAPAN, cultivated.

**forma vernalis** (SAV.) MAKINO, nov. comb.

*Raphanus sativus* f. *vernalis* SAV.; MAKINO in IINUMA, Sômoku-Dzusesetsu, III. (1912), p. 896, t. 26.

Rosette-leaves with many leaflets, firm in texture, hirsute in the petiole, midrib and main veins. Stem hispid at the base. Root smaller. Silique slender, joints rather many.

Nom. Jap. *Sangatsu-daikon*.

Hab. JAPAN, cultivated.

**forma sempervivus** (NAKAI) MAKINO, nov. comb.

*Raphanus macropodus* var. *sempervivus* NAKAI in Cat. Sem. et Spor. (1920), p. 38.

Nom. Jap. *Tokinashi-daikon*.

Hab. JAPAN, cultivated.

**forma Mikawashima** (NAKAI) MAKINO, nov. comb.

*Raphanus macropodus* var. *Mikawashima* NAKAI in Cat. Sem. et Spor. (1920), p. 38.

Nom. Jap. *Mikawashima-daikon*.

Hab. JAPAN, cultivated.

(To be continued)