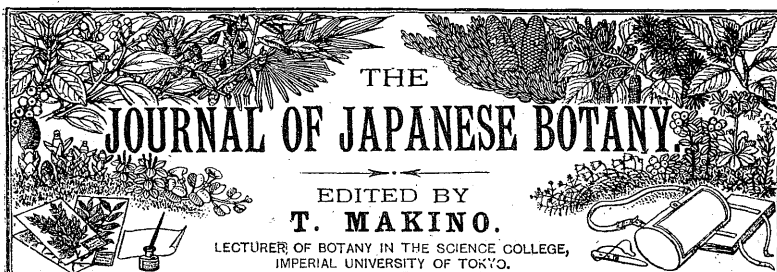


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## A Contribution to the Knowledge of the Flora of Japan.

(Continued from p. 22.)

By

Tomitarō Makino.

**Wedelia prostrata** (HOOK. ET ARN.) HEMSL. in Journ. Linn. Soc. XXIII. p. 434.

**var. robusta** MAKINO, nov. var. Fig. 2.

*Wedelia biflora* MAKINO in Bot. Mag., Tokyo, IV. (1890), p. 87, non DC. excl. syn.

Much robust. Stem stout, much elongate and widely prostrate, sulcate, scabrous. Leaves shortly petiolate, ovate, lato-ovate, elliptical, or ovato-elliptical, acutish at the apex, lato-cuneate at the base, coarsely dentate, thick, triplinerved, scabrous with spinuloso-

hispid hairs, attaining 8 cm. long, 5 cm. wide. Heads larger, about 3 cm. in diameter. Involucral-scales broad. Ray-flowers yellow, about 7-8.

Nom. Jap. *Ô-hamaguruma*.

Hab. Prov. TOSA: Kashiwa-jima in Hata-gôri (T. MAKINO! Sept. 1881, Oct. 1885).

This differs from *Wedelia biflora* DC. (Jap. *Kidachi-hamaguruma*, *Tomawa-hamaguruma*) which has the smootish, ascending and long-branching stems, many-serrated and non-scabrous leaves having the tapering apex and broader base, more numerous and smaller heads, and narrow-involucral-scales.

***Artemisia vulgaris* LINN.**

Sp. PL. p. 848.

**var. *kiusiana* MAKINO, nov.**

var.

Leaves lato-ovate, densely albo-tomentose beneath, about 3-4-cleft; lobes erect-patent, ovate, short-acuminate, irregularly subincisodentate; leaves among the inflorescences small and often entire. Involucre thinly albo-tomentose.

Nom. Jap. *Hiroha-yamayomogi*.

Hab. KIUSIU, mountains.

***Siegesbeckia pubescens* MAKINO, nov. comb.**

*Siegesbeckia orientalis* forma *a. pubescens* MAKINO in Bot. Mag., Tokyo, XVIII. (1904), p. 100.

*Siegesbeckia orientalis* var. *pubescens* MAKINO, ined.

Stem stout, green and sometimes purple, patently villosopubescent, oppositely branched above; main stem nearly continued to the top. Leaves large, deep-green, flaccid, orbiculato-ovate, short-acuminate, broadly cuneate or rounded-cuneate and angustately cuneately decurrent to the petiole at the base, numerous irregularly mucronato-dentate with acute or acutish teeth, softly pubescent on both surfaces. Heads rather large, numerous and often dense.



Fig. 2. *Wadelia prostrata* HEMSL. var. *robusta* MAKINO.  $\times \frac{2}{3}$

Ray-flowers yellow.

Nom. Jap. *Me-namomi*.

*Hab.* JAPAN, common.

This species is more robust than the next *Siegesbeckia glabrescens* MAKINO, and scales of the involucre are broader than those of the latter species.

***Siegesbeckia glabrescens* MAKINO, nov. comb.**

*Siegesbeckia orientalis* forma *b. glabrescens* MAKINO in Bot. Mag., Tokyo, XVIII. (1904), p. 100.

*Siegesbeckia orientalis* var. *glabrescens* MAKINO, ined.

Stem slender, often purple, thinly pubescent with adpressed hairs, oppositely branched above; main stem continued to the top. Leaves broadly ovate, oval-ovate, or ovate, acuminate, broadly cuneate or rounded-cuneate and angustately cuneately decurrent to the petiole at the base, irregularly many-serrato-dentate with acute or acutish teeth, pubescent with short hairs on both surfaces. Heads rather small, rather laxly disposed. Ray-flowers yellow.

Nom. Jap. *Ko-menamomi* (nov.).

*Hab.* JAPAN, common.

***Siegesbeckia orientalis* LINN. Sp. Pl. p. 900; DC. Prodr. V. p. 495; HOOK. FIL. Fl. Brit. Ind. III. p. 304.**

*Siegesbeckia orientalis* forma *c. angustifolia* MAKINO in Bot. Mag., Tokyo, XVIII. (1904), p. 100.

*Siegesbeckia orientalis* var. *angustifolia* MAKINO, ined.

Stem attaining about 1 m. or more long, pubescent, viridescent, repeatedly dichotomously branched above; top of the main stem soon stopping with a peduncled head and branching dichotomously. Leaves light green, pubescent with short hairs, deltoid-ovate, truncato-cuneate or deltoid-cuneate at the base, irregularly coarsely sinuato-dentate with usually obtuse or sometimes acutish teeth, the superior ones narrower, cuneate at the base, deltoid-lanceolate or lanceolate; petiole narrowly cuneately winged by the decurrence of the blade. Heads very numerous, small. Involucral-scales 5, patent, slender, minutely glandular. Ray-flowers 5-6; ligule short and broad, 3-lobed; lobes obtuse. Disk-flowers several or subnumerous.

Nom. Jap. *Tsukushi-menamomi* (nov.).

*Hab.* KIUSIU, southern, common (T. KAWAKAMI!; T. MAKINO!; Z. TASHIRO!); Prov. TOSA in Shikoku: Urado (S. YANO!); Prov. SAGAMI: Kurihama (T. MAKINO! Oct. 15, 1916).

This species is very common in Formosa, Loochoo, and southern parts of Kiusiu.

**Plantago major** LINN.  $\beta$ . **asiatica** DECNE. in DC. Prodr. XIII. 1, p. 694.

**forma Motoyamae** MAKINO, nov.

Leaves long-petiolate, divided, deep-green; divisions tufted, about 5-6, long-petiolulate, parted; segments subcrispate and cuneate, few-several-cleft. Spike exerted, simple.

Nom. Jap. *Fusa-obako* (nov.).

Hab. Prov. MUSASHI: Tokyo, cultivated.

A garden form. For the living specimens I am indebted to Mr. TAKICHI MOTOYAMA.

**Cheilanthes Brandtii** FRANCH. ET SAV. Enum. Pl. Jap. II. pp. 212, 620.

**var. efarinosa** MAKINO, nov. var.

Frond concolourous, not farinose beneath.

Nom. Jap. *Ao-miyamaurajiro* (nov.).

Hab. Prov. SHINANO (ZENRYÔ ÔHINATA! Aug. 1909.).

**Cheilanthes argentea** (GMEL.) KUNZE in Linnaea, XXIII. p. 240.

**var. efarinosa** MAKINO, nov. var.

Frond concolourous, not farinose beneath.

Nom. Jap. *Ao-himeurajiro* (nov.).

Hab. COREA.

**Pinellia ternata** (THUNB.) BRETT. in Bot. Zeit. (1879), p. 687, fig. 1-4.

*Pinellia tuberifera* TENORE in Att. Acc. Sc. Nap. IV. (1839), p. 57.

**var. a. viridis** MAKINO.

The spathe entirely green.

Nom. Jap. *Hange, Karasu-bishaku*.

Hab. JAPAN.

**var.  $\beta$ . atropurpurea** MAKINO.

Limb of the spathe dark-purple inwards.

Nom. Jap. *Murasaki-hange*.

Hab. JAPAN.

**Deutzia scabra** THUNB. **var. a. typica** SCHNEID. in Mitt. Deutsch. Dendr. Ges. (1904), et III. Handb. Laubh. I. (1906), p. 377.

**forma pubescens** MAKINO, nov.

Rachis of the inflorescence, peduncles, and pedicels patently pubescent as is the calyx.

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

Hab. Prov. SAGAMI: Kamakura (K. HISAUCHI! May 21, 1917).

(To be continued.)