

9. **ERANTHIS** Salisbury, Trans. Linn. Soc. London 8: 303. 1807, nom. cons.

菟葵属 tu kui shu

Li Liangqian (李良千); Michio Tamura

*Cammarum* Hill, nom. rej.

Herbs perennial, with tuberous rhizomes. Basal leaves 1 or 2, or absent, long petiolate, palmately divided. Scape unbranched; bracts several, verticillate, forming an involucre. Flower solitary, terminal, actinomorphic. Sepals 5–8, yellow, white, or pink-red, petaloid, oblong, elliptic, or ovate, caducous. Petals 5–8, tubular, small, shortly stalked, slightly concave or 2-fid, sometimes with sterile anthers. Stamens 10 or numerous; filaments narrowly linear, 1-veined; anthers ellipsoid or orbicular. Follicles 4–9, rarely more, usually stalked. Seeds many in a follicle, compressed globose, smooth or reticulate.

About eight species: Asia, Europe; three species (two endemic) in China.

- 1a. Bracts lobed; lobes ovate ..... 1. *E. lobulata*
- 1b. Bracts parted; lobes linear or lanceolate.
  - 2a. Pedicel glabrous; sepals white; carpels 4 or 5, sessile, glabrous ..... 2. *E. albiflora*
  - 2b. Pedicel pubescent; sepals yellow; carpels 6–9, shortly stalked, pubescent ..... 3. *E. stellata*

**1. *Eranthis lobulata*** W. T. Wang in W. T. Wang & P. K. Hsiao, Acta Phytotax. Sin., Addit. 1: 53. 1965.

浅裂菟葵 qian lie tu kui

Rhizome globose, ca. 6 mm in diam., with fibrous roots. Basal leaf 1 or absent, small; petiole ca. 8 cm; leaf blade pentagonal, ca. 4.5 × 9 mm, glabrous, base cordate, 3-lobed; central lobe broadly ovate; lateral ones subcuneate, unequally 2-lobed. Scape more than 8.5 cm, to 29 cm at fruiting, slender, ca. 1 mm in diam., glabrous. Bracts 6, sessile, obovate, rarely oblanceolate, 1.1–2.8 × 0.5–1.9 cm, glabrous, base cuneate, 3-lobed above to near middle, rarely undivided; central lobe ovate subobtrapezoid, apex acute, usually undivided, rarely 3-lobed; lateral ones ovate, smaller, undivided, margin entire. Pedicel 0.8–1.3 cm at fruiting. Sepals and petals unknown. Carpels 4–9, 6–8 mm, glabrous, shortly stalked, stalk ca. 1 mm; persistent style ca. 0.5–1 mm. Seeds pale brown, ellipsoid-globose, slightly flat, 1.2–1.5 × 1–1.2 mm, smooth. Fr. May.

• Grassy slopes; 2800–3100 m. NC and W Sichuan.

- 1a. Scape 8.5–14.5 cm; bracts 1.1–1.9 × 0.5–1.1 cm; carpels 5, persistent style ca. 0.5 mm at fruiting ..... 1a. var. *lobulata*
- 1b. Scape 20–29 cm; bracts 1.4–2.8 × 1.2–1.9 cm; carpels 4–9, persistent style ca. 1 mm at fruiting ..... 1b. var. *elatior*

**1a. *Eranthis lobulata* var. *lobulata***

浅裂菟葵(原变种) qian lie tu kui (yuan bian zhong)

Scape 8.5–14.5 cm; bracts 1.1–1.9 × 0.5–1.1 cm. Carpels 5, persistent style ca. 0.5 mm at fruiting.

• Grassy slopes; ca. 3100 m. NC Sichuan (Wenchuan Xian).

**1b. *Eranthis lobulata* var. *elatior*** W. T. Wang, Acta Phytotax. Sin. 29: 456. 1991.

高浅裂菟葵 gao qian lie tu kui

Scape 20–29 cm; bracts 1.4–2.8 × 1.2–1.9 cm. Carpels 4–9, persistent style 1 mm at fruiting.

• About 2800 m. W Sichuan (Gongga Shan).

**2. *Eranthis albiflora*** Franchet, Nouv. Arch. Mus. Hist. Nat., sér. 2, 8: 191. 1886.

白花菟葵 bai hua tu kui

Plants glabrous. Rhizome globose, ca. 8 mm. Basal leaves unknown. Scape 8–10 cm tall. Bracts 5 or 6, 3-sect; segments obovate-cuneate, parted to middle, unequally lobed; lobes linear, apex acute or obtuse. Flower 1.2–1.5 cm in diam., shortly stalked. Sepals white, elliptic or oblong, obtuse at apex. Petals 4 or 5 obcordate-funnelform, emarginate outside, 2-lobed inside; stalks long, subequaling blade. Stamens ca. 10; filaments linear; anthers orbicular. Follicles 4 or 5, sessile, narrowly oblong, 8–10 × 2.5–3 mm; persistent style 3–5 mm, glabrous. Seeds 3 or 4, flat-globose, 1.8–2 mm in diam., slightly lucid. Fl. Mar.

• Forest margins; 1700–2100 m. W Sichuan (Baoping Xian, Tianquan Xian).

**3. *Eranthis stellata*** Maximowicz, Prim. Fl. Amur. 22. 1859.

菟葵 tu kui

*Eranthis uncinata* Turczaninow var. *puberula* Regel & Maack; *Shibateranthis stellata* (Maximowicz) Nakai. Rhizome globose, 8–11 mm in diam. Basal leaf 1 or absent, small, glabrous, long petiolate; petiole ca. 17 cm; leaf blade orbicular-reniform, ca. 6 × 10 mm, 3-sect; central segment broadly ovate, lateral segments subflabellate. Scape to 20 cm tall, glabrous. Bracts to 2.5–3.5 cm, 3-parted; lobes lanceolate or linear-lanceolate, glabrous. Pedicel 4–10 mm, to 2.5 cm at fruiting, usually spreading pubescent, sometimes glandular pubescent. Flower 1.6–2 cm in diam. Sepals 5–8, yellow, narrowly ovate, elliptic, or oblong, 7–10 × 2.2–5 mm, apex acuminate or slightly obtuse, glabrous. Petals ca. 10, funnelform, 3.5–5 mm, shortly stalked,

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distally bifurcate. Stamens 5–7 mm, glabrous; anthers ca. 1.2 mm. Follicles 6–9, glandular pubescent, stalk ca. 2 mm; persistent style ca. 3 mm. Seeds dark purple, subglobose, ca. 1.6 mm in diam. Fl. Mar–Apr, fr. May. Forests, grasslands. Jilin, Liaoning [N Korea, Russia (Far East)].

Flora of China 6: 148–149. 2001.