2. TRAPELLA Oliver in J. D. Hooker, Icon. Pl. 14: pl. 1595. 1887.

茶菱属 cha ling shu

Herbs aquatic. Floating leaves triangular-rounded to cordate, submersed ones lanceolate. Flowers solitary, axillary, mostly submersed and cleistogamous. Calyx teeth 5; tube adnate to ovary. Corolla funnelform, bilabiate; lowest lobe longest, upper 2 forming inconspicuous lip. Stamens 2, included, basally adnate to corolla tube. Ovary inferior, 2-locular, 1 locule reduced, another with 2 ovules. Stigma 2-lobed. Fruiting pedicel nodding. Fruit indehiscent, narrow and long, with 5 hooklike or spiny appendages below calyx lobes, sometimes with 3–5 longitudinal wings. Seeds 1.

One or two species: China, Japan, Korea, Russia (Far East); one species in China.

The genus is sometimes placed in its own family (Trapellaceae, especially if Martyniaceae is separated from the Pedaliaceae).

1. Trapella sinensis Oliver in J. D. Hooker, Icon. Pl. 14: pl. 1595. 1887. 茶菱 cha ling

Rhizomes horizontal. Stems green, slender, to 60 cm. Leaves opposite, glabrous adaxially, pale purple-red abaxially; petiole 1.5–3 cm; floating leaves 2.5–3 cm wide, apex obtuse-acute; submersed leaves 3–5 cm \times 5–7 mm. Pedicel 1–3 cm, elongated at anthesis. Calyx teeth ca. 2 mm, persistent. Corolla pale red, 1–3 \times 2–3.5 cm; lobes rounded. Filaments ca. 1 cm; anthers 2-locular, spreading. Fruit with 3 hooklike appendages to 7 cm and 2 erect spines 0.3–2 cm. Fl. Jun. 2n = 50.

Ponds, lakes; to 300 m. Anhui, Fujian, Guangxi, Hebei, Heilongjiang, Hubei, Hunan, Jiangsu, Jiangxi, Jilin, Liaoning [Japan, Korea, Russia (Far East)].