

42. ORNITHOBOEA Parish ex C. B. Clarke in A. & C. de Candolle, Monogr. Phan. 5: 147. 1883.

喜鹊苣苔属 xi que ju tai shu

Brachiostemon Handel-Mazzetti; *Sinoboea* W. Y. Chun.

Herbs, perennial, epipetric or terrestrial, rhizomatous. Stems simple or branched. Leaves few, along stem, opposite, equal to unequal in a pair; leaf blade puberulent to woolly, base rounded to cordate. Inflorescences lax, axillary, few- to many-flowered cymes; bracts 2, opposite. Calyx actinomorphic, 5-sect from base or near base; segments equal. Corolla blue to purplish, zygomorphic, inside bearded, outside oblique, campanulate, not swollen, shorter than limb, 2.2–8 mm in diam.; limb 2-lipped; adaxial lip 2-lobed; usually shorter than or occasionally equalling abaxial lip; abaxial lip 3-lobed, lobes equal or subequal, apex rounded. Stamens 2, adnate to abaxial side of corolla tube near base, included; anthers dorsifixed, coherent, thecae divaricate, confluent at apex, dehiscing longitudinally from straight or arcuate slits; connective not projecting; staminodes 2(or 3), adnate to adaxial side of corolla tube. Disc inconspicuous or ringlike. Ovary ovoid to ovoid-conical, 1-loculed; placentas 2, parietal, projecting inward, 2-cleft. Stigma 1, terminal, capitate, undivided. Capsule straight in relation to pedicel, narrowly oblong, slightly to 2 × longer than calyx, dehiscing loculicidally to base; valves 2 or 4, spirally twisted. Seeds unappendaged.

About 11 species: China, Malaysia, E Myanmar, Thailand, Vietnam; five species in China.

- 1a. Filaments forked toward apex, 1 branch with fertile anther, other with a thick yellow knob; calyx segments spreading; bracts 4–7 mm.
 - 2a. Calyx 7–14 mm, pubescent to villous outside; staminodes 2; corolla abaxial lip lobes oblong; peduncle and pedicel villous 4. *O. wildeana*
 - 2b. Calyx 6–8 mm, puberulent outside; staminodes 3; corolla abaxial lip lobes triangular; peduncle and pedicel densely pubescent 5. *O. calcicola*
- 1b. Filaments simple; calyx segments reflexed; bracts inconspicuous or 2–4 mm.
 - 3a. Stem, abaxial leaf blade surface, and peduncle cobwebby-woolly; bracts inconspicuous; calyx segments 8–10 mm; staminodes 3 1. *O. arachnoidea*
 - 3b. Stem, abaxial leaf blade surface, and peduncle puberulent or pubescent to villous; bracts 2–4 mm; calyx segments 3.5–6 mm; staminodes 2.
 - 4a. Peduncle 1.8–7 cm; calyx segments 1–2 mm wide 2. *O. feddei*
 - 4b. Peduncle 0.8–1.5 cm; calyx segments 2–2.5 mm wide 3. *O. henryi*

1. *Ornithoboea arachnoidea* (Diels) Craib, Notes Roy. Bot. Gard. Edinburgh 11: 251. 1919.

蛛毛喜鹊苣苔 zhu mao xi que ju tai

Boea arachnoidea Diels, Notes Roy. Bot. Gard. Edinburgh 5: 225. 1912; *Ornithoboea forrestii* Craib.

Stems 5–45 cm, cobwebby-woolly. Petiole 3–10 cm; leaf blade ovate to broadly ovate, seldom narrowly elliptic to oblong, 3.5–15 × 3.5–10 cm, adaxially puberulent, abaxially puberulent, villous to cobwebby-woolly along veins, margin serrate, apex acute to obtuse. Peduncle 2–4 cm, cobwebby-woolly; bracts inconspicuous. Pedicel 0.5–2.5 cm. Calyx segments reflexed, ovate to obovate or oblong ovate, 8–10 × 2.5–4 mm, outside woolly. Corolla blue to blue-purple, ca. 1.5 cm, densely purplish ciliate inside adaxial lip, purplish bearded on abaxial lip from central lobe to mouth; tube 4–5 × 5–6 mm; adaxial lip 3–4 mm, lobes ca. 1 mm; abaxial lip 0.9–1.1 cm, lobes oblong, 4–5 mm. Stamens ca. 4 mm, glabrous; filaments simple; staminodes 3, ca. 2 mm. Ovary ovoid, ca. 2.5 mm, densely woolly to pubescent. Style 6.5–7.5 mm,

sparsely puberulent. Capsule 1.2–2 cm. Fl. Jul–Aug, fr. Jul–Oct.

Crevices of rocks or slopes; 1800–2000 m. W Yunnan [NW Thailand].

2. *Ornithoboea feddei* (H. Léveillé) B. L. Burtt, Notes Roy. Bot. Gard. Edinburgh 22: 296. 1958.

贵州喜鹊苣苔 gui zhou xi que ju tai

Boea feddei H. Léveillé, Repert. Spec. Nov. Regni Veg. 9: 449. 1911; *B. darrisii* H. Léveillé; *Ornithoboea darrisii* (H. Léveillé) Craib; *Sinoboea microcarpa* W. Y. Chun.

Stems 10–40 cm, densely pubescent, glabrescent. Petiole 1.5–8.5 cm; leaf blade ovate to broadly ovate, 3–10 × 2–6 cm, adaxially pubescent or pubescent and puberulent, abaxially puberulent, pubescent along veins, margin dentate-serrate, apex obtuse to acuminate. Peduncle 1.8–7 cm, villous to puberulent; bracts 2–3 mm. Pedicel 7–9 mm. Calyx segments reflexed, lanceolate to oblong-lanceolate, 3.5–6 × 1–2 mm, outside puberulent. Corolla pale purple, 0.9–1.4 cm, inside bearded on abaxial lip; tube 4–5 × 2.2–4 mm; adaxial lip 2.5–3.5 mm, lobes 1.2–2 mm; abaxial lip 5–

7 mm, lobes oblong, 2–4 mm. Stamens 2.5–3.5 mm; filaments simple, glandular puberulent near apex; staminodes 2, ca. 1.2 mm. Ovary ovoid-conical, 1.2–4 mm; pubescent. Style 2.5–4 mm, puberulent. Capsule 8–10 mm. Fl. and fr. Sep.

- Dry cliff, in shade. SW Guizhou.

3. *Ornithoboea henryi* Craib, Bull. Misc. Inform. Kew 1913: 115. 1913.

喜鹊苣苔 xi que ju tai

Stems 3–20 cm, pubescent to villous. Petiole 3–10.5 cm; leaf blade ovate to broadly ovate, 4.5–11 × 3.5–9 cm, puberulent, abaxially villous to pubescent along veins, margin dentate-serrate, sometimes double, apex obtuse to acuminate. Peduncle 0.8–1.5 cm, villous to pubescent; bracts 2.5–4 mm. Pedicel 7–10 mm. Calyx segments reflexed, lanceolate to obovate, 4–6 × 2–2.5 mm, outside puberulent and pubescent. Corolla blue-purple, ca. 1 cm, inside bearded at mouth, white bearded on abaxial lip central lobe; tube 4–5 × 5–7 mm; adaxial lip 2.5–3 mm, lobes 1–2 mm; abaxial lip 5–7 mm, lobes oblong, ca. 3 mm. Stamens 2–5 mm; filaments simple, glandular puberulent near apex; staminodes 2, ca. 1.2 mm. Ovary ovoid-conical, 2–2.5 mm, densely pubescent. Style ca. 3 mm, puberulent. Capsule 0.8–1.6 cm. Fl. Aug.

- Rock crevices; 700–1400 m. S Yunnan.

4. *Ornithoboea wildeana* Craib, Bull. Misc. Inform. Kew 1916: 268. 1916.

滇桂喜鹊苣苔 dian gui xi que ju tai

Brachistemon macrocalyx Handel-Mazzetti.

Stems 20–40 cm, villous to pubescent. Petiole 2–11 cm; leaf blade ovate to broadly ovate, seldom obovate, 5–13 × 2.5–10 cm, sparsely pubescent, abaxially villous along veins, margin dentate-serrate, sometimes double, apex acuminate to acute. Peduncle 1.7–3.6 cm, villous; bracts 4–7 mm. Pedicel 0.9–2 cm. Calyx segments spreading, lanceolate to narrowly obovate, 0.7–1.4 cm × 2–3 mm, outside pubescent to villous. Corolla white, flushed purplish, 1.2–1.5 cm; tube 6–9 × 6–8 mm; adaxial lip ca. 6 mm, glabrous inside, lobes ca. 2 mm; abaxial lip 3–7 mm, yellowish bearded, lobes oblong, 2–3.5 mm. Stamens ca. 3 mm; filaments forked apically, glandular puberulent near apex; 1 branch with fertile anther, other with a thick yellow knob; staminodes 2, 1–2.5 mm. Ovary ovoid to broadly ovoid, 2–3 mm, villous. Style 4–9 mm, puberulent. Capsule 1.5–1.8 cm. Fl. and fr. Jul–Sep.

Rocks at forest margins; 300–1300 m. SW Guangxi, S Yunnan [NW Thailand].

5. *Ornithoboea calcicola* C. Y. Wu ex H. W. Li, Bull. Bot. Res., Harbin 3(2): 42. 1983.

灰岩喜鹊苣苔 hui yan xi que ju tai

Stems to 60 cm, villous. Petiole 1–10.5 cm; leaf blade ovate to broadly ovate, 3.5–10 × 2–6.5 cm, adaxially sparsely villous, abaxially densely puberulent, villous along veins, margin dentate-serrate, apex acuminate. Peduncle ca. 2.5 cm, densely pubescent; bracts 4–7 mm. Pedicel to 1.5 cm. Calyx segments spreading, lanceolate to narrowly ovate, 6–8 × ca. 3 mm, outside puberulent. Corolla blue-purple, ca. 1.4 cm, inside central lobe of abaxial lip densely bluish bearded; tube ca. 8 mm; adaxial lip ca. 6 mm, lobes ca. 1 mm; abaxial lip ca. 6 mm, lobes triangular, ca. 1.5 mm. Stamens ca. 3.5 mm; filaments forked apically, glandular puberulent near apex; 1 branch with fertile anther, other with a thick yellow knob; staminodes 3, ca. 2.5 mm. Ovary ovoid-conical, ca. 3 mm, densely villous to pilose. Style ca. 7 mm, pubescent. Capsule ca. 2 cm. Fl. and fr. Sep.

- Limestone; ca. 1000 m. S Yunnan (Mengla Xian).

