

1. **HEMSLEYA** Cogniaux ex F. B. Forbes & Hemsley, J. Linn. Soc., Bot. 23: 490. 1888.

雪胆属 xue dan shu

Lu Anmin (路安民 Lu An-ming); Charles Jeffrey

Herbs, perennial, scandent. Roots enlarged, oblate or rarely cylindrical. Stem and branches slender or moderately robust. Tendrils filiform, 2-fid. Leaves pedately (3–)5–9(–11)-foliolate; leaflets narrowly oblong-lanceolate to obovate-lanceolate, membranous or papery. Plants dioecious. Inflorescence cymose-racemose to paniculate, axillary. Male flowers: calyx tube short; segments ovate to ovate-lanceolate, ascending, spreading, rotate, recurved, or reflexed; corolla pale yellow, yellow-green, or orange-red, rotate, discoid, turbinate, bowl-shaped, inverted bowl-shaped, Chinese lanternlike, or umbelliform; segments ovate-lanceolate to broadly ovoid, herbaceous or subsucculent; stamens 5; filaments exerted. Female flowers: calyx and corolla usually as in male flowers, sometimes slightly larger; ovary subglobose or conical, smooth or muriculate; styles 3; stigmas 2-lobed. Fruit globose, cylindrical, or tubular-cylindrical, longitudinally 9- or 10-striate or 9- or 10-angular, almost smooth or verrucose. Seeds elliptic or broadly ovate, usually with woody wings, sometimes wings membranous or absent.

About 27 species: subtropical or tropical Asia; 25 species (21 endemic) in China.

- 1a. Roots without tuber; seeds with broad membranous wing 1. *H. graciliflora*
1b. Roots with tuber (except possibly for *H. heterosperma*); seeds without wing or with thin woody wing.
2a. Flower smaller, corolla 3–7 mm in diam.
3a. Corolla bowl-shaped, 5–7 mm in diam.; petals fleshy; fruit conical to cylindrical, 2.4–3.5 cm × 8–10 mm; seeds oblong-elliptic to ovate, with a corky wing 2. *H. delavayi*
3b. Corolla laxly patelliform, 3–5 mm in diam.; petals membranous-herbaceous; fruit obconic, 2–4 cm × 12–15 mm; seeds lenticular, ± isodiametric, unwinged 3. *H. kunmingensis*
2b. Flower larger, corolla 8–15 mm in diam.
4a. Corolla segments spreading, explanate, or ascending, corolla bowl-shaped or rotate.
5a. Seeds strongly biconvex, almost without wing, margin slightly broad, 1–1.3(–2) mm; fruit conical to terete-elliptic.
6a. Corolla 15–20 cm, yellow-green, segments broadly ovate 6. *H. panlongqi*
6b. Corolla 10–13 cm, green or pale green, segments strap-shaped; fruit conical or terete-conical.
7a. Corolla segments ascending; flower buds obtuse at apex 4. *H. macrocarpa*
7b. Corolla segments spreading or reflexed; flower buds acute at apex 5. *H. mitrata*
5b. Seeds oblong, lenticular, or strongly biconvex, margin narrower, less than 1 mm in diam.; fruit globose, narrowly elliptic, or narrowly conical.
8a. Seeds oblong, with thin corky wing; fruit narrowly elliptic to narrowly conical 7. *H. dipterygia*
8b. Seeds biconvex, without wing; fruit globose or conical.
9a. Seeds lenticular; corolla bowl-shaped 11. *H. sphaerocarpa*
9b. Seeds ovate to orbicular; corolla rotate.
10a. Fruit globose, pedicel with an articulation 8. *H. amabilis*
10b. Fruit conical or cylindrical, pedicel without an articulation.
11a. Fruit apex with distinct style; corolla segments lanceolate 9. *H. heterosperma*
11b. Fruit apex without distinct style; corolla segments ovate-orbicular 10. *H. lijiangensis*
4b. Corolla segments reflexed or revolute, corolla umbelliform or ± globose.
12a. Seed margin narrower; corolla red-brown or pale red-brown, base often dark red-brown.
13a. Leaflets 9–11; corolla bowl-shaped, 8–10 mm in diam. 25. *H. endecaphylla*
13b. Leaflets (3–)5–9.
14a. Corolla Chinese lanternlike.
15a. Fruit elliptic; corolla 10–15 mm in diam. 20. *H. chinensis*
15b. Fruit ovoid to globose; corolla 20–25 mm in diam. 21. *H. gigantea*
14b. Corolla bowl-shaped (*H. dulongjiangensis* corolla unknown).
16a. Fruit elliptic, 5–8 cm; seed margin erose 22. *H. dolichocarpa*
16b. Fruit ovoid to globose, 3–4 cm.
17a. Seed margin smooth; fruiting pedicel with an articulation; leaflets 5–7, elliptic-lanceolate 23. *H. macrosperma*
17b. Seed margin erose; fruiting pedicel without an articulation; leaflets 3–5, rhombic 24. *H. dulongjiangensis*
12b. Seed margin smooth; corolla pale yellow or yellow-green.
18a. Fruit globose or subglobose.

- 19a. Corolla umbelliform, 10–12 mm in diam.; fruiting pedicel with an articulation 12. *H. panacis-scandens*
 19b. Corolla Chinese lanternlike or bowl-shaped, 6–12 mm in diam.
 20a. Corolla Chinese lanternlike; fruit 2–2.5 cm in diam. 13. *H. emeiensis*
 20b. Corolla bowl-shaped; fruit 3–3.5 cm in diam. 14. *H. pengxianensis*
 18b. Fruit conical or elliptic to claviform-elliptic.
 21a. Fruit elliptic or claviform, over 7 cm.
 22a. Fruit narrowly elliptic-claviform, distinctly longitudinally costate, 7–8 cm, pedicel with indistinct articulation 18. *H. chengyihana*
 22b. Fruit broadly to narrowly elliptic, indistinctly costate, (6–)11–17 cm, pedicel with distinct articulation 19. *H. zhejiangensis*
 21b. Fruit conical to elliptic, 3.5–5 cm.
 23a. Corolla bowl-shaped, segments carnose, 8–9 mm; fruit elliptic to ovoid 17. *H. carnosiflora*
 23b. Corolla Chinese lanternlike, segments thinner.
 24a. Fruit conical, base cuneate; corolla segments 14–17 mm 15. *H. turbinata*
 24b. Fruit elliptic; base obtuse; corolla segments 10–15 mm 16. *H. ellipsoidea*

1. *Hemsleya graciliflora* (Harms) Cogniaux in Engler, Pflanzenr. 66(IV. 275. I): 24. 1916.

马铜铃 ma tong ling

Alsomitra graciliflora Harms, Bot. Jahrb. Syst. 29: 602. 1901; *Gomphogyne bonii* Gagnepain; *Hemsleya graciliflora* var. *tianmuensis* X. J. Xue & H. Yao; *H. longgangensis* X. X. Chen & D. R. Liang.

Root fibrous; tuber absent. Leaves pedately 7-foliolate; petiole 1.8–3 cm; leaflets oblong-lanceolate to obovate-lanceolate, 5–10 × 2–3.5 cm; petiolule 4–7 mm. Inflorescence largely cymose; peduncle 5–20 cm, densely pubescent. Male flowers: pedicel filiform, 1–2 mm; calyx segments spreading, triangular, ca. 2 × 1 mm; corolla spreading, yellowish to pale yellow-green, rotate, 5–6 mm; segments obovate, 3–4 × ca. 2 mm, thinly membranous; filaments short, ca. 1 mm. Female flowers: calyx and corolla as in male flowers; ovary narrowly cylindrical, base attenuate. Fruit conical, 2.5–3.5 × 1–1.5 cm; fruiting pedicel curved, 5–6 mm. Seeds oblong, compressed, 12–14 × 5–6 mm, with membranous wing, wing 3–4 mm at both ends of seed, seed body obovate. Fl. Jun–Sep, fr. Aug–Nov. *2n* = 28.

Mountain slopes; 500–2400 m. Guangdong, Guangxi, Hubei, Jiangxi, Sichuan, Zhejiang [Vietnam].

The fruit is used medicinally.

2. *Hemsleya delavayi* (Gagnepain) C. Jeffrey ex C. Y. Wu & Z. L. Chen, Acta Phytotax. Sin. 23: 134. 1985.

短柄雪胆 duan bing xue dan

Tuber obovate to conical. Stem and branchlets slender. Tendrils glabrous, 2-fid. Leaves pedately 5–7-foliolate; petiole 2–5 mm; leaflets lanceolate to elliptic-lanceolate, median leaflets 3–10 cm × 8–15 mm; petiolule 2–3 mm. Plants dioecious. Inflorescence dichotomous, to 30 cm; pedicels filiform, 2–5 mm. Male flowers: calyx segments ovate-lanceolate, 2–4 mm, glabrous, apex acute; corolla orange-yellow to pale yellow, bowl-shaped, 5–7 mm in diam.; segments ovate, revolute, 5–6 mm; filaments short, 0.5–1 mm. Female flowers: slightly larger than male flowers; ovary cylindrical to conical, 4–5 × 2–2.5 mm. Fruit conical to cylindrical, 2.4–3.5 cm × 8–10 mm, base attenuate, slightly curved; fruiting pedicel 4–7 mm. Seeds dark brown,

narrowly elliptic, compressed, 10–12 × 4–6 mm, with corky wing; wing 3–4 mm at apex, ca. 1 mm wide on both sides; seed body broadly elliptic to ovate. Fl. Jul–Sep, fr. Aug–Oct.

• Forests, valleys, mountain slopes; 1600–2200 m. SW Sichuan, C and W Yunnan.

- 1a. Leaves subglabrous; corolla segments in male acute at apex 2a. var. *delavayi*
 1b. Leaves densely pubescent; corolla segments in male rounded-obtuse at apex 2b. var. *yalungensis*

2a. *Hemsleya delavayi* var. *delavayi*

短柄雪胆(原变种) duan bing xue dan (yuan bian zhong)

Gomphogyne delavayi Gagnepain, Bull. Mus. Natl. Hist. Nat. 24: 373. 1918; *Hemsleya brevipetiolata* Handel-Mazzetti.

Leaves subglabrous. Corolla segments in male flowers acute at apex.

• Forests, valleys; 1800–2000 m. SW Sichuan, C and W Yunnan.

2b. *Hemsleya delavayi* var. *yalungensis* (Handel-Mazzetti) C. Y. Wu & Z. L. Chen, Acta Phytotax. Sin. 23: 134. 1985.

雅砻雪胆 ya long xue dan

Hemsleya brevipetiolata var. *yalungensis* Handel-Mazzetti, Symb. Sin. 7: 1059. 1936.

Leaves densely pubescent. Corolla segments in male flowers rounded-obtuse at apex.

• Mountain slopes; 1600–2200 m. SW Sichuan.

3. *Hemsleya kunmingensis* H. T. Li & D. Z. Li, Ann. Bot. Fenn. 44: 486. 2007.

昆明雪胆 kun ming xue dan

Tuber enlarged, ovoid. Stem slender, tomentose when young but smooth when older. Tendril glabrous, distally 2-fid. Leaves pedately 7–9-foliolate; petiole 2–4 cm; leaflets lanceolate to oblong; median leaflets 6–12 × 1–1.5 cm; petiolule 2–4 mm. Plants dioecious. Inflorescence dichasial, 5–30 cm, 10–30-flowered; pedicels 5–10 mm. Male flowers: calyx segments broadly triangular, 3–5 mm, revolute, shortly cuspidate at apex; corolla yellowish green, laxly patelliform, 3–5 mm in diam.,

herbaceous; segments elliptic, 3–5 mm, evaginate and revolute into an anchor shape at apex; filaments 1–2 mm; anthers whitish. Female flowers: calyx and corolla as in male flowers; ovary conical; styles 3, 1–2 mm. Fruit many, greenish, longitudinally 10-striate, obconic, 2–4 × 1.2–1.5 cm, almost smooth; fruiting pedicel 10–15 mm. Seeds many, blackish brown, lenticular, 5–8 mm in diam., 2–3 mm thick, verrucose, unwinged. Fl. Jun–Sep, fr. Aug–Nov.

- Damp valleys in secondary forests; ca. 2300 m. C Yunnan.

4. *Hemsleya macrocarpa* (Cogniaux) C. Y. Wu ex C. Jeffrey, Kew Bull. 36: 739. 1982.

圆锥果雪胆 yuan zhui guo xue dan

Tuber olate or ovoid. Stem sometimes slightly thickened at nodes. Leaves pedately 7–9-foliolate; petiole 3–7 cm, sparsely puberulent or subglabrous; leaflets obovate-lanceolate to elliptic-lanceolate; median leaflets 6–10 × 2.5–4 cm; petiolule 2–6 mm. Inflorescence dichotomously cymose, 4–12 cm; peduncle and branches slightly flexuous. Male flowers: bud obtuse at apex; calyx segments spreading, ovate-lanceolate, 4–5 × 2–3 mm; corolla green to pale yellow-green, rotate, 7–15 mm in diam.; segments strap-shaped, 6–7 × 2–3 mm, fleshy, base with a pair of glands; filaments less than 1 mm. Female flowers: calyx and corolla as in male flowers; ovary conical, 5–7 × 3–4 mm. Fruit campanulate to conical, (3–)4–7 × 3–4 cm, with distinct ribs; fruiting pedicel 8–10 mm. Seeds dark brown, irregularly orbicular, 12–15 × 8–12 mm, 3–4 mm thick, with very narrow wing. Fl. Jul–Sep, fr. Sep–Nov. 2n = 28.

Evergreen forests, thickets on mountain slopes; 1000–2300 m. NW and SW Yunnan [NE India].

- 1a. Fruit (3–)4.5(–6) cm, (1.3–)1.6(–1.85) × as long as broad 4a. var. *macrocarpa*
- 1b. Fruit (4–)6.2(–6.5) cm, (1.5–)2.5(–3) × as long as broad.
 - 2a. Corolla 7–9 mm in diam. 4b. var. *clavata*
 - 2b. Corolla 12–15 mm in diam. 4c. var. *grandiflora*

4a. *Hemsleya macrocarpa* var. *macrocarpa*

圆锥果雪胆(原变种) yuan zhui guo xue dan (yuan bian zhong)

Gomphogyne macrocarpa Cogniaux in Engler, Pflanzenr. 66(IV. 275. I): 40. 1916; *Hemsleya changningensis* C. Y. Wu & Z. L. Chen; *H. obconica* C. Y. Wu & Z. L. Chen.

Fruit (3–)4.5(–6) cm, (1.3–)1.6(–1.85) × as long as broad.

Evergreen forests; 1000–2200 m. SW Yunnan [NE India].

4b. *Hemsleya macrocarpa* var. *clavata* (C. Y. Wu) D. Z. Li, Syst. Evol. *Hemsleya*, 76. 1993.

棒果雪胆 bang guo xue dan

Hemsleya clavata C. Y. Wu, Acta Phytotax. Sin. 23: 124. 1985.

Corolla 7–9 mm in diam. Fruit (4–)6.2(–6.5) cm, (1.5–)2.5(–3) × as long as broad.

- Broad-leaved forests; 1400–1500 m. SW Yunnan.

4c. *Hemsleya macrocarpa* var. *grandiflora* (C. Y. Wu) D. Z. Li, Syst. Evol. *Hemsleya*, 76. 1993.

大花雪胆 da hua xue dan

Hemsleya grandiflora C. Y. Wu, Acta Phytotax. Sin. 23: 130. 1985.

Corolla 12–15 mm in diam. Fruit (4–)6.2(–6.5) cm, (1.5–)2.5(–3) × as long as broad.

- Thickets on mountain slopes; ca. 2300 m. NW Yunnan.

5. *Hemsleya mitrata* C. Y. Wu & Z. L. Chen, Acta Phytotax. Sin. 23: 128. 1985.

帽果雪胆 mao guo xue dan

Tuber enlarged. Stem and branchlets stout, sparsely puberulent, ultimately glabrous; stem nodes thickened, densely pubescent. Leaves pedately 5–7-foliolate; petiole 5–8 cm; leaflets lanceolate to elliptic-lanceolate, margin serrate; median leaflets 5–11 × 2.5–4 cm; petiolule 2–5 mm. Plants dioecious. Inflorescence peduncle slightly reflexed, 5–11 cm. Male flowers: buds acute at apex; calyx segments lanceolate, ca. 6 × 3 mm; corolla pale yellow-green, rotate, 10–11 mm, fleshy; segments ± strap-shaped, base with 2 distinct glands. Female flower unknown. Fruit caplike, 4–5 × 3–3.6 cm. Seeds dark brown, broadly ovoid, 12–13 × 9–10 mm, 3–3.5 mm thick, almost unwinged. Fl. Jul–Oct, fr. Sep–Dec.

- Thickets on mountain slopes; 2400–2700 m. SW Yunnan.

6. *Hemsleya panlongqi* A. M. Lu & W. J. Chang, Acta Phytotax. Sin. 21: 183. 1983.

盘龙七 pan long qi

Tuber olate-spheroid. Branches slender, sulcate-angular, densely pubescent at nodes. Tendrils 2-fid. Leaves pedately 7-foliolate; petiole 2–4 cm; leaflets elliptic-lanceolate to ovate-lanceolate, median leaflets 8–12 × 2–3.5 cm, lateral leaflets smaller, base cuneate, margin serrate, apex acuminate; petiolule 3–6 mm, densely pubescent. Inflorescence peduncle filiform; pedicel linear, 12–15 mm. Male flower unknown. Female flowers: bracts very small, subulate; calyx segments 5, ovate-lanceolate, ca. 10 × 3 mm, apex acuminate; corolla pale yellow to yellow-green, rotate, 15–20 mm in diam.; segments spreading, broadly ovate, ca. 12 × 8 mm; ovary ovoid-globose to narrowly ovoid, 8–11 × 4–6 mm. Fl. Sep.

- Broad-leaved forests; ca. 1800 m. S Sichuan.

7. *Hemsleya dipterygia* Kuang & A. M. Lu, Acta Phytotax. Sin. 20: 88. 1982 [*“dipteryga”*].

翼蛇莲 yi she lian

Hemsleya cissiformis C. Y. Wu.

Tuber enlarged. Stem usually thickened at nodes, densely pubescent, ultimately glabrous. Tendrils glabrous. Leaves pedately 5–7-foliolate; petiole 2–6 cm; leaflets broadly lanceolate to rhombic, margin serrate or crenate, median leaflets 7–11 × ca. 2.5 cm, lateral leaflets smaller; petiolule 2–4 mm. Inflores-

cence peduncle and branches filiform. Male flowers: pedicel 5–10 mm; calyx segments ovate, ca. 7 mm; corolla pale yellow to pale yellow-green, rotate to bowl-shaped, 12–13 mm in diam.; corolla segments spreading, broadly obovate, ca. 8 × 7.5 mm, apex obtuse; filaments less than 1 mm. Female flower unknown. Fruit oblong-claviform or claviform, 4–5.5 × 0.6–1.7 cm, densely pubescent when immature, glabrous when mature, with indistinct ribs. Seeds dark brown, oblong, ca. 14 × 15 mm, 3–4 mm thick. Fl. Jun–Oct, fr. Aug–Nov.

Broad-leaved forests; 100–1500 m. N Guangxi, S Guizhou, C and S Yunnan [N Vietnam].

8. *Hemsleya amabilis* Diels, Notes Roy. Bot. Gard. Edinburgh 5: 206. 1912.

曲莲 qu lian

Tuber obovate-spheroid. Stem and branchlets very slender. Tendrils 8–12 cm. Leaves pedately 5–9-foliolate; petiole 2–4 cm; leaflets lanceolate to narrowly lanceolate, median leaflets 4–5 × 1–1.5 cm. Male flowers dichotomously cymose; peduncle slightly flexuous, 5–15 cm; calyx segments 5, ovate-triangular, 4–5 × ca. 2 mm; corolla pale yellow to pale yellow-green, rotate, 10–12 mm in diam.; segments spreading, broadly obovate, 5–6 × 4–5 mm; filaments ca. 2 mm, exerted. Female flowers in simple dichotomously cymose inflorescence, larger than male flowers, 11–12(–15) mm in diam.; ovary subglobose, 4–5 mm. Fruit spheroid, 12–20 mm; fruiting pedicel filiform, 2–3 mm. Seeds dark brown, broadly ovate-orbicular, 6–8 × 5–7 mm, 3–4 mm thick, unwinged. Fl. Jun–Oct, fr. Aug–Nov. *2n* = 28*.

• Forests; 1800–3000 m. SW Sichuan, C and W Yunnan.

9. *Hemsleya heterosperma* (Wallich) C. Jeffrey, Kew Bull. 36: 739. 1982.

异子雪胆 yi zi xue dan

Zanonia heterosperma Wallich, Pl. Asiat. Rar. 2: 29. 1831; *Alsomitra heterosperma* (Wallich) M. Roemer; *Gomphogyne heterosperma* (Wallich) Kurz.

Tuber unknown. Stem slender, glabrous. Leaves pedately 3–5-foliolate; petiole 3–4 cm, glabrous; leaflets ovate-lanceolate, base attenuate, apex shortly acuminate; median leaflets 5–7 × ca. 1.5 cm; petiolule 3–6 mm. Plants dioecious. Inflorescence compound or simple; peduncle slender, slightly flexuous, glabrous. Male flowers: calyx segments subulate, ca. 1 mm, apex apiculate; corolla pale yellow to pale yellow-green, rotate, 3–4 mm in diam.; segments ovate-lanceolate, ca. 3 × 1 mm, glabrous, apex acuminate; filaments free, ca. 1 mm. Female flowers similar to male flowers; peduncle 5–11 cm; ovary conical. Fruit pale yellow-green, narrowly campanulate or claviform, 12–35 × 6–12 mm, glabrous, with distinct ribs, dehiscent at apex, 3-seeded in each locule. Seeds small, irregularly ovate, ca. 3 × 2 mm, ca. 1 mm thick. Fl. Sep–Oct, fr. Oct–Nov. *2n* = 28.

Rain forests, evergreen broad-leaved forests; 100–2300 m. Yunnan [Myanmar, Thailand].

10. *Hemsleya lijiangensis* A. M. Lu ex C. Y. Wu & Z. L. Chen,

Acta Phytotax. Sin. 23: 129. 1985.

丽江雪胆 li jiang xue dan

Tuber enlarged. Stem and branchlets filiform, sparsely pubescent, ultimately subglabrous. Tendrils apically 2-fid. Leaves pedately 5–7-foliolate; petiole 2–4 cm; leaflets oblong-lanceolate to narrowly lanceolate; median leaflets 6–12 × 2–2.2 cm; petiolule 2–4 mm. Male flowers: inflorescence peduncle and branchlets flexuous, 4–5 cm, densely pubescent; pedicel filiform; calyx segments 5, spreading, ovate-triangular, ca. 4 × 2 mm, apex acuminate; corolla pale yellow, rotate, 8–10 mm; segments spreading, obovate, ca. 5 × 4 mm; filaments ca. 2 mm. Female flowers solitary or few dichotomously cymose in leaf axils; pedicel 5–30 mm; ovary narrowly campanulate or conical, ca. 3 × 2 mm, densely white punctate. Fruit campanulate to conical, 2.2–4 cm × 13–18 mm. Seeds dark brown, irregularly orbicular, compressed, 4–6 × 4–5 mm, 2–3 mm thick. Fl. Jul–Sep, fr. Aug–Oct.

• Forests; 2000–3000 m. NW Yunnan.

11. *Hemsleya sphaerocarpa* Kuang & A. M. Lu, Acta Phytotax. Sin. 20: 87. 1982.

蛇莲 she lian

Tuber obovate-spheroid. Stem and branchlets slender, nodes densely pubescent. Tendrils 8–24 cm. Leaves pedately 5–9-foliolate; petiole 1.6–4 cm; leaflets oblong-lanceolate to broadly lanceolate; median leaflets 7–16 × 2.5–4 cm. Male flowers in a large dichotomous cyme, 5–25(–45) cm (varying in different subspecies); calyx segments ovate-triangular, ca. 4 × 3 mm; corolla pale yellow-green, bowl-shaped, 7–15 mm in diam.; segments broadly ovate, apex acuminate. Female flowers usually in a short inflorescence; ovary spheroid to ovoid, 3–5 mm. Fruit spheroid to ovoid, 2–3 cm in diam.; fruiting pedicel 1–9 mm, with distinct articulation. Seeds lenticular, 8–9 mm in diam., unwinged. Fl. May–Sep, fr. Jul–Nov. *2n* = 28*.

• Broad-leaved forests; 400–2400 m. E and NE Guangxi, S and SE Guizhou, S Hunan, SE, SW, and WC Yunnan.

- 1a. Male inflorescence (14–)20(–44) cm 11b. subsp. *megathyrsa*
- 1b. Male inflorescence (5–)9(–15) cm.
 - 2a. Corolla (7–)8(–9) mm in diam.; fruiting pedicel 1–2 mm 11c. subsp. *wenshanensis*
 - 2b. Corolla (9–)12(–15) mm in diam.; fruiting pedicel 8–9 mm 11a. subsp. *sphaerocarpa*

11a. *Hemsleya sphaerocarpa* subsp. *sphaerocarpa*

蛇莲(原亚种) she lian (yuan ya zhong)

Inflorescence (5–)9(–15) cm. Corolla (9–)12(–15) mm in diam. Fruiting pedicel 8–9 mm.

• Broad-leaved forests; 400–1600 m. E and NE Guangxi, S and SE Guizhou, S Hunan, SE and SW Yunnan.

11b. *Hemsleya sphaerocarpa* subsp. *megathyrsa* (C. Y. Wu)

D. Z. Li, Syst. Evol. *Hemsleya*, 84. 1993.

大序雪胆 da xu xue dan

Hemsleya megathyrsa C. Y. Wu, Acta Phytotax. Sin. 23: 131. 1985; *H. megathyrsa* var. *major* C. Y. Wu & Z. L. Chen.

Male inflorescence (14–)20(–44) cm. Corolla 8–12 mm in diam.

- Evergreen broad-leaved forests; 2200–2400 m. SW Yunnan.

11c. *Hemsleya sphaerocarpa* subsp. *wenshanensis* (A. M. Lu ex C. Y. Wu & Z. L. Chen) D. Z. Li, Syst. Evol. *Hemsleya*, 85. 1993.

文山雪胆 wen shan xue dan

Hemsleya wenshanensis A. M. Lu ex C. Y. Wu & Z. L. Chen, Acta Phytotax. Sin. 23: 130. 1985.

Inflorescence (5–)9(–15) cm. Corolla (7–)8(–9) mm in diam. Fruiting pedicel 1–2 mm.

- Evergreen forests; 1800–2300 m. SE and WC Yunnan (Jingdong, Wenshan).

12. *Hemsleya panacis-scandens* C. Y. Wu & Z. L. Chen, Acta Phytotax. Sin. 23: 135. 1985.

藤三七雪胆 teng san qi xue dan

Tuber oblate-spheroid. Stem and branchlets robust, stem nodes stout, sparsely pubescent. Tendrils 8–15 cm. Leaves pedately 7–9-foliolate; petiole 5–8 cm; leaflets obovate-lanceolate; median leaflets 6–10 × 2–3 cm; petiolule 4–8 mm. Male flowers dichotomously cymose or paniculate; peduncle usually filiform, 3–7 cm; calyx segments ovate-lanceolate, ca. 9 × 4 mm, apex reflexed; corolla pale yellow to yellow-green, umbelliform, 10–12 mm in diam.; segments obovate to ovate-oblong, fleshy, base thickened, apex obtuse; filaments ca. 1 mm. Female flowers: corolla 12–15 mm in diam., ovary subglobose, 5–8 × 4–7 mm. Fruit globose, 25–45 mm in diam., fruiting pedicel 4–8 mm, with articulation. Seeds dark brown, ovoid-spheroid, ca. 15 × 12–13 mm, almost unwinged, margin ca. 3 mm wide. Fl. Aug–Oct, fr. Oct–Dec. $2n = 42^*$.

- Evergreen broad-leaved forests; 1700–2400 m. SE Yunnan.

- 1a. Corolla pale yellow, segments involute (not reflexed), margin sinuate 12a. var. *panacis-scandens*
- 1b. Corolla deep yellow, umbelliform, margin entire 12b. var. *pingbianensis*

12a. *Hemsleya panacis-scandens* var. *panacis-scandens*

藤三七雪胆(原变种) teng san qi xue dan (yuan bian zhong)

Corolla pale yellow, spheroid, 10–12 mm in diam.; segments sinuate at margin. Fruit smooth, 10-angular.

- Evergreen broad-leaved forests; 1700–2400 m. SE Yunnan.

12b. *Hemsleya panacis-scandens* var. *pingbianensis* C. Y. Wu & Z. L. Chen, Acta Phytotax. Sin. 23: 137. 1985.

屏边藤三七雪胆 ping bian teng san qi xue dan

Corolla deep yellow, umbelliform, ca. 15 mm in diam.; segments entire. Ovary and fruit densely white verrucose.

- Broad-leaved forests; ca. 1700 m. SE Yunnan (Pingbian).

13. *Hemsleya emeiensis* L. D. Shen & W. J. Chang, Acta Phytotax. Sin. 21: 191. 1983.

峨眉雪胆 e mei xue dan

Tuber enlarged, pale brown-yellow. Branchlets slender, sparsely pubescent when young. Leaves pedately 7–9-foliolate; petiole 4–6 cm; leaflets oblong-lanceolate to ovate-lanceolate; median leaflets 9–14 × 2–4.5 cm. Male flowers dichotomously cymose, peduncle 3–8 cm; calyx segments 5, lanceolate, ca. 4 × 2 mm, apex reflexed; corolla yellow-green, Chinese lanternlike, ca. 8 mm in diam.; segments 5, obovate-lanceolate, ca. 8 × 5 mm; filaments ca. 1 mm. Female inflorescence simple; ovary subglobose, 3–6 mm. Fruit globose, 20–25 mm in diam. Seeds ovoid, ca. 10 × 8 mm, ca. 3 mm thick, unwinged. Fl. Jul–Sep, fr. Sep–Nov. $2n = 28^*$.

- Broad-leaved forests; 1800–2000 m. Sichuan (Emei Shan).

14. *Hemsleya pengxianensis* W. J. Chang, Acta Phytotax. Sin. 17(4): 97. 1979.

彭县雪胆 peng xian xue dan

Tuber oblate-spheroid. Stem and branchlets slender. Leaves pedately 5–7-foliolate; petiole 4.5–7 cm, glabrous or pubescent; leaflets obovate-lanceolate to narrowly lanceolate, median leaflets 8–17 × 2–4 cm; petiolule 3–5 mm. Male flowers dichotomously cymose; peduncle 4–10 cm, slightly flexuous; calyx segments lanceolate, ca. 4 × 2–3 mm; corolla yellow-green, bowl-shaped or Chinese lanternlike, 6–12 mm in diam.; segments ovate, ca. 6 × 4 mm, apex reflexed. Female inflorescence reduced; ovary ovoid or subglobose, ca. 3 mm in diam. Fruit ovoid or ellipsoid, 3–4 × 3–3.5 cm. Seeds almost circular, compressed, 10–13 × 10–13 mm, almost unwinged, margin 2–3 mm wide. Fl. Jun–Sep, fr. Aug–Nov.

- Broad-leaved forests, forest margins; 700–2100 m. Chongqing, Sichuan.

- 1a. Fruit elliptic; corolla Chinese lanternlike, 10–12 mm in diam. 14c. var. *gulinensis*
- 1b. Fruit ovate to ovoid or subglobose; corolla bowl-shaped, ca. 8 mm in diam.
 - 2a. Ovary ovoid; petiole, rachis, and corolla pubescent 14b. var. *junlianensis*
 - 2b. Ovary subglobose; petiole and corolla glabrous 14a. var. *pengxianensis*

14a. *Hemsleya pengxianensis* var. *pengxianensis*

彭县雪胆(原变种) peng xian xue dan (yuan bian zhong)

Hemsleya pengxianensis var. *jinfushanensis* L. D. Shen & W. J. Chang; *H. pengxianensis* var. *polycarpa* L. D. Shen & W. J. Chang.

Petiole glabrous. Corolla bowl-shaped, ca. 8 mm in diam., glabrous.

- Broad-leaved forests; 700–2100 m. Chongqing, C and SW Sichuan.

14b. *Hemsleya pengxianensis* var. *junlianensis* L. D. Shen & W. J. Chang, Acta Phytotax. Sin. 21: 188. 1983.

筠连雪胆 jun lian xue dan

Petiole, peduncle, and corolla pubescent. Corolla bowl-shaped, ca. 8 mm in diam. Ovary ovoid. Fruit ovate to ovoid.

- Forest margins; ca. 1500 m. SW Sichuan.

14c. *Hemsleya pengxianensis* var. *gulinensis* L. D. Shen & W. J. Chang, Acta Phytotax. Sin. 21: 188. 1983.

古蔺雪胆 gu lin xue dan

Hemsleya gulinensis L. D. Shen & W. J. Chang.

Corolla Chinese lanternlike, 10–12 mm in diam. Fruit elliptic.

- Broad-leaved forests. Sichuan.

Hemsleya pengxianensis var. *gulinensis* is not a new combination based on *H. gulinensis* (L. D. Shen & W. J. Chang, Acta Acad. Med. Sichuan. 11(2): 103. 1980), although both names have the same type.

15. *Hemsleya turbinata* C. Y. Wu, Acta Phytotax. Sin. 23: 140. 1985.

陀罗果雪胆 tuo luo guo xue dan

Tuber obovate-spheroid. Stem and branchlets robust. Tendrils 12–20 cm. Leaves 5–7-foliolate; petiole 3–5 cm; leaflets obovate-lanceolate to elliptic-lanceolate, margin dentate; median leaflets 6–12 cm; petiolule 2–5 mm. Male flowers unknown. Female flowers 2 to more in a dichotomous cyme; peduncle 3–10 cm; calyx segments lanceolate, 11–13 × ca. 4 mm, apex reflexed; corolla pale yellow-green, Chinese lanternlike, 10–12 mm; segments oblong-lanceolate, 14–17 × 6–8 mm, base with 2 glands, revolute, acute at apex; ovary conical, ca. 9 × 3–4 mm. Fruit conical, 3.5–5 × 2–2.5 cm, base attenuate; fruiting pedicel only ca. 3 mm. Seeds dark brown, broadly ovate, compressed, 9–11 × 8–10 mm, 2–3 mm thick, unwinged, margin ca. 2 mm wide. Fl. Jul–Sep, fr. Sep–Nov.

- Evergreen broad-leaved forests; 1600–2400 m. SW Yunnan.

16. *Hemsleya ellipsoidea* L. D. Shen & W. J. Chang, Acta Phytotax. Sin. 21: 185. 1983.

椭圆形雪胆 tuo yuan guo xue dan

Tuber enlarged. Stem and branchlets slender, sulcate. Leaves pedately 3–5-foliolate; petiole 2–5 cm; leaflets ovate-lanceolate; median leaflets 9–15 × 4–5 cm; petiolule 3–5 cm. Male flowers sparsely dichotomously cymose; peduncle 10–12 cm; calyx segments lanceolate, ca. 10 × 3 mm, apex reflexed; corolla pale yellow-green, lantern-shaped, 9–11 mm; segments broadly ovate-lanceolate, 10–15 × 6–10 mm, apex reflexed; filaments ca. 1 mm. Female flowers: corolla larger than male flowers, 12–15 mm in diam.; ovary ovoid, ca. 10 × 5 mm. Fruit ellipsoid, 3.5–4 × ca. 2.5 cm, base obtuse-rounded; fruit wall leathery. Seeds almost circular, compressed, ca. 15 mm in diam., ca. 3 mm thick, unwinged, margin 3–4 mm wide. Fl. Jul–Sep, fr. Sep–Nov.

- Broad-leaved forests; ca. 2000 m. Sichuan (Emei Shan).

17. *Hemsleya carnosiflora* C. Y. Wu & Z. L. Chen, Acta Phytotax. Sin. 23: 133. 1985.

肉花雪胆 rou hua xue dan

Tuber obovate-spheroid. Stem and branchlets rather robust, thickened at nodes, densely pubescent. Tendrils 7–16 cm. Leaves pedately 7–9-foliolate; petiole 5–8 cm; leaflets obovate-lanceolate, margin dentate; median leaflets 8–12 × 3–4 cm; petiolule 4–8 mm. Male flowers dichotomously cymose or paniculate; peduncle indistinctly flexuous, 3–7 cm; calyx segments ovate-lanceolate, ca. 7 × 4 mm, apex reflexed; corolla pale yellow-green, bowl-shaped, 8–10 mm. Female inflorescence simple; peduncle 2.5–5 cm; corolla larger than male, 11–12 mm in diam.; ovary ellipsoid, ca. 10 cm × 6–7 mm. Fruit ellipsoid to ovoid, 4–5 × 2.5–3 cm; fruiting pedicel 9–12 mm. Seeds obovate-elliptic to almost circular, compressed, 13–16 × 12–14 mm, 3–4 mm thick, almost unwinged, margin ca. 4 mm wide. Fl. Jun–Oct, fr. Aug–Nov. $2n = 42^*$.

- Forests; 1800–1900 m. SE Yunnan.

18. *Hemsleya chengyihana* D. Z. Li, Syst. Evol. *Hemsleya*, 91. 1993.

征镒雪胆 zheng yi xue dan

Hemsleya macrocarpa C. Y. Wu, Acta Phytotax. Sin. 23: 135. 1985, not (Cogniaux) C. Y. Wu ex C. Jeffrey, Kew Bull. 36: 739. 1982.

Tuber obovate-ovoid. Stem and branchlets slightly stout, distinctly sulcate. Tendrils 12–25 cm. Leaves pedately 5–7-foliolate; petiole 3–6 cm; leaflets lanceolate to obovate-lanceolate, margin crenate; median leaflets ca. 14 × 1.5–4 cm; petiolule 5–10 mm. Male inflorescence dichotomously cymose; peduncle flexuous, 5–12 cm, densely pubescent; calyx segments ovate-triangular, ca. 5 × 3 mm, apex reflexed; corolla pale yellow-green, bowl-like, ca. 10 mm in diam.; segments oblong, 7–8 × 3–4 mm; filaments ca. 1 mm. Female flowers unknown. Fruit clavate or clavate-elliptic, 7–8 × 2–2.5 cm, distinctly costate; fruiting pedicel 10–15 mm. Seeds dark brown, elliptic, ca. 12 × 7 mm, almost unwinged, margin 1–3 mm wide. Fl. Jul–Oct, fr. Sep–Nov.

- Broad-leaved forests, forest margins. SW Yunnan.

19. *Hemsleya zhejiangensis* C. Z. Zheng, Acta Phytotax. Sin. 23: 67. 1985.

浙江雪胆 zhe jiang xue dan

Tuber enlarged. Stem and branchlets slender, sulcate, nodes densely pubescent. Leaves pedately 5–9-foliolate; petiole 2.5–5 cm; leaflets elliptic-lanceolate, margin sparsely dentate; median leaflets 6–11 × 2–3.5 cm. Male inflorescence dichotomously cymose; peduncle flexuous, 13–17 cm; calyx segments ovate-lanceolate, 4–5 × 3–4 mm, apex reflexed; corolla pale yellow-green, bowl-like, 8–10 mm; segments obovate, 7–8 × 4–5 mm, fleshy, apex reflexed; filaments ca. 1 mm. Female flower unknown. Fruit broadly to narrowly elliptic, (6–)11–17 × 2–3 cm, indistinctly costate; fruiting pedicel with distinct articulation, 1–2 cm. Seeds dark brown, oblong, almost unwinged, margin 2–4 mm. Fl. Jun–Sep, fr. Aug–Nov.

- Broad-leaved forests, bamboo forests; 800–1000 m. Anhui,

Jiangxi, Zhejiang.

20. *Hemsleya chinensis* Cogniaux ex F. B. Forbes & Hemsley, J. Linn. Soc., Bot. 23: 490. 1888.

雪胆 xue dan

Tuber ovoid or oblate. Stem and branchlets slender. Tendrils 8–14 cm. Leaves pedately 5–9-foliolate; petiole 4–8 cm; leaflets ovate-lanceolate, oblong-lanceolate, or broadly lanceolate, margin crenate; median leaflets 5–12 × 2–2.5 cm; petiolule 5–10 mm. Male inflorescence dichotomously cymose or paniculate; peduncle filiform, flexuous, 5–12 cm; calyx segments ovate, ca. 7 × 4–5 mm, apex acute, reflexed; corolla orange-red, Chinese lantern-shaped or rounded-globose, 8–15 mm in diam.; segments oblong, 10–13 × 8–9 mm, subglabrous; filaments ca. 1 mm. Female inflorescence simple; peduncle 2–4 cm; calyx and corolla as in male flowers; corolla ca. 15 mm in diam.; ovary cylindrical, 5–10 × 2–3 mm. Fruit ellipsoid, 3–7 × ca. 2 cm, base attenuate; fruiting pedicel slightly curved, with or without articulation, 8–10 mm. Seeds brown, suborbicular, 10–12 × ca. 10 mm, ca. 3 mm thick, unwinged, margin ca. 1 mm wide. Fl. Jul–Sep, fr. Sep–Nov. $2n = 28^*$.

• Evergreen broad-leaved forests, forest margins; 400–2800 m. Guizhou, Hubei, Sichuan, Yunnan.

- 1a. Fruit with white spiculiform hairs along longitudinal ribs; branchlets and petiole with dense spiculiform hairs 20d. var. *polytricha*
- 1b. Fruit without spiculiform hairs along longitudinal ribs; branchlets and petiole without spiculiform hairs.
 - 2a. Corolla usually glabrous, 12–15 mm in diam.; fruit elliptic, 3–7 cm 20a. var. *chinensis*
 - 2b. Corolla densely white pubescent, 8–12 mm in diam.
 - 3a. Corolla 10–12 mm in diam.; fruit obovoid, pedicel with articulation 20b. var. *ningnanensis*
 - 3b. Corolla ca. 8 mm in diam.; fruit ovoid, pedicel without articulation 20c. var. *longevillosa*

20a. *Hemsleya chinensis* var. *chinensis*

雪胆(原变种) xue dan (yuan bian zhong)

Branchlets, petiole, and fruit without spiculiform hairs. Corolla 12–15 mm in diam., usually glabrous. Fruit elliptic, 3–7 cm.

• Evergreen broad-leaved forests, forest margins; 400–2800 m. Guizhou, Hubei, Sichuan, Yunnan.

20b. *Hemsleya chinensis* var. *ningnanensis* L. D. Shen & W. J. Chang, Acta Phytotax. Sin. 21: 185. 1983.

宁南雪胆 ning nan xue dan

Hemsleya ningnanensis L. D. Shen & W. J. Chang; *H. villosipetala* C. Y. Wu & Z. L. Chen.

Branchlets, petiole, and fruit without spiculiform hairs. Corolla 10–12 mm in diam., usually with dense white hairs. Fruit obovoid; pedicel with articulation.

• Evergreen broad-leaved forests. SW Sichuan, NE Yunnan.

Hemsleya chinensis var. *ningnanensis* is not a new combination based on *H. ningnanensis* (L. D. Shen & W. J. Chang, Acta Acad. Med. Sichuan. 11(1): 19. 1980), although both names have the same type.

20c. *Hemsleya chinensis* var. *longevillosa* (C. Y. Wu & Z. L. Chen) D. Z. Li, Syst. Evol. *Hemsleya*, 95. 1993 [“*longivillosa*”].

长毛雪胆 chang mao xue dan

Hemsleya longevillosa C. Y. Wu & Z. L. Chen, Acta Phytotax. Sin. 23: 140. 1985.

Branchlets, petiole, and fruit without spiculiform hairs. Corolla usually with dense white hairs, ca. 8 mm in diam. Fruit ovoid; pedicel without articulation.

• Evergreen broad-leaved forests; 1900–2100 m. Yunnan (Fuyuan).

20d. *Hemsleya chinensis* var. *polytricha* Kuang & A. M. Lu, Acta Phytotax. Sin. 20: 90. 1982.

毛雪胆 mao xue dan

Branchlets and petiole with dense spiculiform hairs. Fruit with dense spiculiform hairs along longitudinal ribs.

• Broad-leaved forests; 1300–1500 m. W Hubei.

21. *Hemsleya gigantea* W. J. Chang, Acta Phytotax. Sin. 21: 186. 1983.

巨花雪胆 ju hua xue dan

Tuber yellow-brown. Leaves pedately 7–9-foliolate; petiole 5–9 cm; leaflets broadly elliptic-lanceolate or ovate-lanceolate, base cuneate, margin crenate; median leaflets 7–12 × 3–5 cm. Male inflorescence dichotomously cymose; rachis 7–11 cm; calyx segments lanceolate, ca. 15 × 7 mm, apex reflexed; corolla orange-red, Chinese lanternlike, 1.5–2(–2.5) cm in diam.; segments broadly ovate, 20–25 × 15–18 mm, revolute, obtuse-rounded and apiculate at apex; filaments ca. 1 mm. Female inflorescence simple; ovary ellipsoid, 10–15 × 6–10 mm. Fruit subspheroid to ovoid, 2–3.5 cm in diam., fruit wall leathery. Seeds dark brown, broadly ovoid, 10–12 × 8–10 mm, 2–3 mm thick, almost unwinged; margin narrow, ca. 2 mm wide, slightly erose. Fl. Jun–Sep, fr. Aug–Nov.

• Broad-leaved or *Pinus* forests, forest margins. SW Sichuan.

22. *Hemsleya dolichocarpa* W. J. Chang, Acta Phytotax. Sin. 21: 190. 1983.

长果雪胆 chang guo xue dan

Tuber enlarged, yellow-brown. Stem and branchlets slender. Leaves pedately 5–7-foliolate; petiole 3.5–6.5 cm; leaflets obovate-lanceolate or elliptic-lanceolate, margin crenate; median leaflets 7–15 × 4–7 cm. Male inflorescence dichotomously cymose; rachis 3–8 cm; calyx segments lanceolate, 6–8 × 4–6 mm, apex apiculate, flexuous; filaments ca. 1 mm. Female in-

florescence simple; ovary cylindric, ca. 6×3 mm. Fruit elliptic, $5-8 \times 2-3.5$ cm. Seeds broadly ovate to suborbicular, compressed, $13-14 \times$ ca. 11 mm, 2–3 mm thick, unwinged; margin ca. 1 mm wide, erose. Fl. Jun–Sep, fr. Aug–Nov.

- Broad-leaved forests; 1400–1800 m. C and SW Sichuan.

23. *Hemsleya macrosperma* C. Y. Wu, Acta Phytotax. Sin. 23: 139. 1985.

罗锅底 *luo guo di*

Tuber enlarged, oblate. Stem and branchlets slender. Tendrils 6–10 cm. Leaves pedately 5–7-foliolate; petiole 4–5 cm; leaflets oblong-lanceolate to obovate-lanceolate, margin crenate; median leaflets $4-9 \times 1.5-3$ cm; petiolule 2–4 mm. Male inflorescence dichotomously cymose; peduncle 2–8 cm; calyx segments ovate, $4-5 \times$ ca. 3 mm, apex acute, reflexed; corolla orange-red, bowl-like, 8–10 mm in diam.; segments oblong, ca. 8×4 mm, sparsely white villous; filaments ca. 2 mm. Female inflorescence: peduncle 1–5 cm; ovary ellipsoid or subglobose, $5-7 \times 4-5$ mm. Fruit ovoid, 3.5–5 cm in diam. Seeds dark brown, ovoid, $9-11 \times 8-9$ mm, unwinged, margin smooth, ca. 1 mm wide. Fl. Jul–Sep, fr. Sep–Nov.

- Evergreen broad-leaved or *Pinus* forests; 1800–3200 m. SW Sichuan, C and NE Yunnan.

- 1a. Fruit ovoid, 3.5–4 cm 23a. var. *macrosperma*
1b. Fruit elliptic, to 5 cm 23b. var. *oblongicarpa*

23a. *Hemsleya macrosperma* var. *macrosperma*

罗锅底(原变种) *luo guo di* (*yuan bian zhong*)

- Fruit ovoid, 3.5–4 cm.

- Evergreen broad-leaved or *Pinus* forests; 1800–3200 m. SW Sichuan, C and NE Yunnan.

23b. *Hemsleya macrosperma* var. *oblongicarpa* C. Y. Wu & Z. L. Chen, Acta Phytotax. Sin. 23: 140. 1985.

长果罗锅底 *chang guo luo guo di*

- Fruit elliptic, to 5 cm.

- Evergreen broad-leaved forests; 1900–2000 m. SW Sichuan, NE Yunnan.

24. *Hemsleya dulongjiangensis* C. Y. Wu, Acta Phytotax. Sin. 23: 134. 1985.

独龙江雪胆 *du long jiang xue dan*

Tuber enlarged. Stem and branchlets slender, longitudinally sulcate, densely pubescent. Tendrils 6–9 cm, densely pubescent. Leaves pedately 3–7-foliolate; petiole 2–3 cm; leaflets broadly ovate-lanceolate to rhombic, margin sparsely serrate; median leaflets $3-6 \times 3-3.5$ cm. Flowers unknown. Fruit ovoid, $3.5-4.5 \times 3-3.5$ cm; fruiting pedicel curved, 5–8 cm. Seeds (immature) yellow-brown, broadly ovoid, ca. 13 mm in diam., unwinged; margin 1–2 mm wide, erose. Fr. Sep.

- Open forests in valleys; 1400–2700 m. NW Yunnan.

25. *Hemsleya endecaphylla* C. Y. Wu, Acta Phytotax. Sin. 23: 142. 1985.

十一叶雪胆 *shi yi ye xue dan*

Tuber enlarged. Stem slightly robust. Tendrils 8–12 cm. Leaves pedately 9–11-foliolate; petiole stout, 5–7 cm; leaflets obovate-lanceolate, margin irregularly crenate; median leaflets $5-7 \times 2-2.5$ cm; petiolule 3–5 mm. Male inflorescence paniculate; rachis indistinctly flexuous, 5–8 cm; calyx segments pale yellow-green, ovate-triangular, ca. 5×4 mm, apex reflexed; corolla orange-yellow, bowl-like, 8–10 mm in diam.; segments oblong, with dense squamose hairs, apex reflexed; filaments very short, ca. 0.5 mm. Female flower and fruit unknown. Fl. Jun–Jul.

- Broad-leaved forests; ca. 2400 m. NW Yunnan.

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