

### 13. OSTEOMELES Lindley, Trans. Linn. Soc. London 13: 96, 98. 1821.

小石积属 xiao shi ji shu

Gu Cuizhi (谷粹芝 Ku Tsue-chih); Stephen A. Spongberg

Shrubs deciduous or evergreen; buds small, with several narrow scales. Leaves imparipinnate; stipules linear to lanceolate; rachis narrowly winged; leaflets opposite, sessile or shortly petiolulate, small, margin entire. Corymb terminal, numerous flowered; bracts caducous. Hypanthium campanulate. Sepals 5. Petals 5, white. Stamens 20. Ovary inferior; 5-loculed, with 1 ovule per locule; styles 5, free. Fruit a small pome, with persistent erect sepals; seeds erect; cotyledons plano-convex.

About five species: E Asia; three species (one endemic) in China.

- 1a. Styles basally glabrous; leaflet blade suborbicular, rarely obovate-oblong ..... 3. *O. subrotunda*
- 1b. Styles basally pubescent; leaf blade obovate to elliptic.
  - 2a. Leaflet blade obovate or obovate-oblong, 10–15 × 3–5 mm; hypanthium and sepals densely pubescent ..... 1. *O. anthyllidifolia*
  - 2b. Leaflet blade elliptic, elliptic-oblong or obovate-oblong, 5–10 × 2–4 mm; hypanthium and sepals slightly pubescent or subglabrous ..... 2. *O. schwerinae*

**1. *Osteomeles anthyllidifolia*** (Smith) Lindley, Trans. Linn. Soc. London 13: 99. 1821.

小石积 xiao shi ji

*Pyrus anthyllidifolia* Smith in Rees, Cycl. 29: *Pyrus* no. 29. 1819.

Shrubs 1–3 m tall. Branchlets reddish brown or purplish brown, terete, slender, initially pubescent, glabrescent; buds not seen. Leaves with 7–15 pairs of leaflets; stipules caducous, lanceolate, membranous; petiole 1–1.5 cm, pubescent; petiolule very short or absent; leaflet blade obovate or obovate-oblong, 1–1.5 cm × 3–5 mm, both surfaces pubescent, abaxially densely so, base broadly cuneate to subrounded, margin entire, apex obtuse, emarginate or mucronulate. Corymb 2–3 cm in diam., numerous flowered; peduncle pubescent; bracts caducous, lanceolate, membranous, pubescent. Pedicel 5–8 mm, pubescent. Flowers ca. 1 cm in diam. Hypanthium campanulate, abaxially pubescent. Sepals triangular-lanceolate, abaxially densely pubescent, adaxially sparsely pubescent, margin entire, apex acuminate. Petals spatulate, 5–7 × 3–4 mm. Stamens 20. Styles nearly as long as stamens, villous basally. Pome blackish brown, ellipsoid or oblong, ca. 1 cm; fruiting pedicel ca. 8 mm, pubescent; sepals persistent, erect. Fl. Apr–May, fr. Aug.

Coral rocks near sea; near sea level. Taiwan (Hongtuo Yu, Lan Yu) [Japan (Ryukyu Islands)].

**2. *Osteomeles schwerinae*** C. K. Schneider, Ill. Handb. Laubholz. 1: 763. 1906.

华西小石积 hua xi xiao shi ji

Shrubs or semishrubs, deciduous or evergreen, dense, spreading, 1–4 m tall. Branchlets reddish brown or purple, terete, slender, initially densely grayish white pubescent, glabrescent; buds depressed-triangular-ovoid, small, subglabrous. Leaves with 7–15 pairs of leaflets; stipules caducous, lanceolate, membranous; petiole 3–5 mm, pubescent to subglabrous, petiolules very short or nearly absent; leaflet blade elliptic or elliptic-oblong, rarely obovate-oblong, (3–)5–10 × 2–4 mm,

both surfaces sparsely pubescent, abaxially densely so, base broadly cuneate or subrounded, margin entire, apex acute or mucronulate. Corymb 2–3 cm in diam., 3–5-flowered; peduncle grayish white pubescent; bracts caducous, linear-lanceolate, membranous, pubescent. Pedicel 3–5 mm, grayish white pubescent. Flowers ca. 1 cm in diam. Hypanthium campanulate, ca. 3 mm, abaxially subglabrous or sparsely pubescent. Sepals ovate-lanceolate, abaxially pubescent, margin entire, apex acute. Petals oblong, 5–7 × 3–4 mm. Stamens 20. Styles nearly as long as stamens, villous basally. Pome bluish black, ovoid or subglobose, 6–8 mm; fruiting pedicel 5–8 mm, slightly pubescent; sepals persistent, erect. Fl. Apr–May, fr. May–Jul.

• Scrub, slopes, fields, roadsides, mixed forests; 1000–3000 m. Gansu, Guizhou, Shaanxi, Sichuan, ?Taiwan, Xizang, Yunnan.

- 1a. Leaflet blade 5–10 mm; petiole pubescent ..... 2a. var. *schwerinae*
- 1b. Leaflet blade 3–5 mm; petiole subglabrous ..... 2b. var. *microphylla*

**2a. *Osteomeles schwerinae* var. *schwerinae***

华西小石积(原变种) hua xi xiao shi ji (yuan bian zhong)

*Osteomeles chinensis* Lingelsheim & Borza.

Petiole pubescent; leaflet blade 5–10 mm.

• Scrub on slopes, roadsides; 1000–3000 m. Gansu, Guizhou, Sichuan, ?Taiwan, Yunnan.

**2b. *Osteomeles schwerinae* var. *microphylla*** Rehder & E. H. Wilson in Sargent, Pl. Wilson. 3: 431. 1917.

小叶华西小石积 xiao ye hua xi xiao shi ji

*Osteomeles schwerinae* var. *multijuga* Koidzumi.

Petiole subglabrous; leaflet blade 3–5 mm.

• Slopes, roadsides, mixed forests; 1500–2700 m. Gansu, Shaanxi, Sichuan, Yunnan.

**3. *Osteomeles subrotunda*** K. Koch, Ann. Mus. Bot. Lugduno-

Batavum 1: 250. 1864.

圓叶小石积 yuan ye xiao shi ji

Shrubs evergreen, dense, ca. 2 m tall. Branchlets grayish brown, terete, slender, densely grayish white villous when young, glabrescent; buds ovoid, small, subglabrous, apex obtuse. Leaves with 7–15 pairs of leaflets; stipules caducous, lanceolate, membranous, apex acuminate; petiole 3–7 mm, pubescent to glabrous, petiolule very short; leaflet blade suborbicular or obovate-oblong, (3–)4–6 × (1.5–)2–3 mm, abaxially densely grayish white villous, adaxially sparsely villous, or both surfaces glabrous to subglabrous, base rounded or subrounded, margin entire, apex obtuse, mucronulate or apiculate. Corymb 2–3.5 cm in diam., many flowered; peduncle villous; bracts caducous, linear-lanceolate, membranous, pubescent. Pedicel 3–5 mm, villous. Flowers ca. 1 cm in diam. Hypanthium campanulate, abaxially pubescent. Sepals triangular-lanceolate, abaxially pubescent, adaxially subglabrous, margin entire, apex acute. Petals oblong, 5–8 × 3–5 mm. Stamens 20. Styles glabrous, nearly as long as stamens. Pome bluish black, subglobose, 6–12 mm in diam.; fruiting pedicel 5–8 mm, slightly pubescent; sepals persistent. Fl. Apr–Jun, fr. Jul–Sep.

Mixed forests, scrub on mountain summits, roadsides; 200–500 m. N Guangdong (Renhua Xian) [Japan (Ryukyu Islands)].

- 1a. Leaf blade and petiole hairy; leaflets 4–6 × 2–3 mm, apex obtuse or mucronulate ..... 3a. var. *subrotunda*  
 1b. Leaf blade and petiole glabrous or subglabrous; leaflets 3–4 × 1.5–2 mm, apex obtuse and apiculate ..... 3b. var. *glabrata*

**3a. *Osteomeles subrotunda* var. *subrotunda***

圓叶小石积(原变种) yuan ye xiao shi ji (yuan bian zhong)

*Osteomeles anthyllidifolia* Lindley f. *subrotunda* (K. Koch) Koidzumi; *O. anthyllidifolia* var. *subrotunda* (K. Koch) Masamune.

Leaf blade and petiole hairy; leaflets 4–6 × 2–3 mm, apex obtuse or mucronulate.

Mixed forests, roadsides; 200–500 m. N Guangdong (Renhua Xian) [Japan (Ryukyu Islands)].

**3b. *Osteomeles subrotunda* var. *glabrata*** T. T. Yu, Acta Phytotax. Sin. 13(1): 101. 1975.

无毛圓叶小石积 wu mao yuan ye xiao shi ji

Leaf blade and petiole glabrous or subglabrous; leaflets 3–4 × 1.5–2 mm, apex obtuse and apiculate.

- Shrub on mountain summits. N Guangdong.

ROSACEAE