# 2. MITRASACME Labillardière, Nov. Holl. Pl. 1: 35. 1804.

## 尖帽花属 jian mao hua shu

Herbs annual or perennial. Leaves opposite along stem and/or in a whorl at base, subsessile; stipules absent. Flowers axillary and/or terminal, solitary or in pedunculate umbel-like cymes which sometimes form irregular compound umbels, 4-merous, white or yellow, rarely pale blue. Calyx campanulate, 2–4-lobed; lobes valvate. Corolla campanulate [salverform or urceolate], often bearded at mouth, tube short to long; lobes exduplicate-valvate in bud. Stamens inserted on lower half of corolla tube; filaments much longer than anthers; anthers introrse, extrorse, or rarely latrorse, included to slightly exerted, 2-locular. Pistil glabrous. Ovary superior to slightly inferior; ovules many per locule. Style one, base usually parted, rarely 2 separate styles; stigma capitate or 2-cleft. Capsule globose to subglobose, opening by apical loculicidal slits, many seeded; horns 2, terminated by a style. Style split or remain partly connate. Seeds minute, cylindric-ellipsoid to angular; seed coat thin reticulate to verrucose or almost very minutely papillate; endosperm fleshy.

About 40 species: mainly Australia, extending to E, S, and SE Asia and Pacific Islands; two species in China.

1a.	Stems glabrous or very sparsely hairy, 4-ribbed to narrowly 4-winged; flowers always axillary, solitary,	
	rarely 2 together in a sessile cluster; seed coat honey-comblike	1. M. indica
1b.	Stems hairy at least near base, terete; flowers mostly terminal, usually in long pedunculate umbel-like	
	cymes; seed coat finely reticulate to papillate	M. pygmaea

1. Mitrasacme indica Wight, Icon. Pl. Ind. Orient. 4: 15. 1850.

### 尖帽花 jian mao hua

*Mitrasacme alsinoides* R. Brown var. *indica* (Wight) H. Hara.

Annuals, erect, to 15 cm tall. Stems usually branched, slender, distinctly 4-ribbed to narrowly 4-winged, glabrous or subglabrous; internodes  $2-4 \times$  as long as leaves. Leaf blade ovate to very narrowly ovate,  $3-7 \times 1.5-2.5$  mm, herbaceous, glabrous or glabrescent, apex acute; midrib abaxially prominent, lateral veins inconspicuous on both surfaces. Flowers solitary in upper leaf axils. Pedicel filamentous, 3-8 mm, glabrous or scabrous. Calyx to 2 mm, glabrous, basally connate to  $\pm$  half its length, lobes narrowly oblong. Corolla white, campanulate, 3-4 mm, shortly and sparsely bearded at mouth; lobes subrounded, ca. 1.5 mm. Stamens included; filaments ca. 1 mm; anthers introrse, ovate to rarely sagittate, ca. 0.7 mm, with an apical appendix. Pistil ca. 1.5 mm. Ovary ovoid, ca. 0.5 mm in diam. Style ca. 1 mm, base strongly parted, connate along apical half; stigma broadly truncate to 2-cleft. Fruiting pedicel 0.6-2.5 cm. Capsule subglobose, to 2 mm in diam.; style connate only at apex. Seeds angular, ovoid, coarsely reticulate. Fl. Feb-Jun.

Grassy open places; near sea level to 500 m. Fujian, Guangdong, Hainan, Jiangsu, Shandong, Taiwan [India, Indonesia, Japan, Korea, Malaysia, Myanmar, Philippines, Sri Lanka, Thailand, Vietnam; Australia].

## 2. Mitrasacme pygmaea R. Brown, Prodr. 453. 1810.

#### 水田白 shui tian bai

Annuals or perennials 5–20 cm tall. Stems terete, erect or creeping, simple, branched, or cespitose, basally densely white hirsute, apically glabrous or glabrescent; internodes shorter to longer than leaves. Leaves opposite, usually at least some and occasionally all in a dense whorl, subsessile; leaf blade ovate, oblong, or linear-lanceolate,  $2-13 \times 1-5$  mm,

herbaceous, abaxially hirsute on midrib, adaxially hirsute but glabrescent, rarely both surfaces  $\pm$  glabrous, base broadly cuneate to attenuate, margin hirsute, apex obtuse to acuminate; lateral veins inconspicuous, 3 per side. Inflorescences terminal, sometimes also subterminal, long pedunculate, umbel-like, often irregularly compound, rarely reduced to a single long pedicellate flower; bracts ovate to ovate-lanceolate, ca. 3 mm, ciliate. Pedicel 5-9 mm. Calyx 1.5-2.8 mm; lobes narrowly triangular, as long as tube. Corolla white, pale yellow, or rarely bluish white, campanulate, 3-8 mm, inside often sparsely bearded; lobes suborbicular, to 1.5 mm. Stamens included; filaments 1.5-3 mm; anthers narrowly ovate to sagittate, apex acute. Pistil to 4.5 mm. Ovary ca. 1 mm. Styles free for lower 1/4 to 1/3; stigma 2-cleft. Fruiting pedicel ca. 1.5 cm. Capsule subglobose, ca. 3 mm in diam., base enclosed by calyx, apex opening by loculicidal slits; style free or connate toward apex. Seeds ellipsoid to angular, minutely reticulate to papillate. Fl. May-Aug, fr. Aug-Dec.

200–600 m. Anhui, Fujian, Guangdong, Guangxi, Guizhou, Hainan, Hunan, Jiangsu, Jiangxi, Taiwan, Yunnan, Zhejiang [Cambodia, India, Indonesia, Japan, Korea, Malaysia, Myanmar, Nepal, Philippines, Thailand, Vietnam; Australia].

- Stems ascending, much branched from base; leaves all opposite, glabrous or subglabrous except sometimes for ciliate margins; inflorescences all ± as long as vegetative part of stem.
  - 2a. Corolla 7–8 mm; leaf blade ovate or subovate, glabrous ...... 2b. var. *grandiflora*2b. Corolla 4–5 mm; leaf blade very
  - 20. Corona 4–5 mm, real blade very narrowly elliptic, glabrous except for ciliate margins ...... 2c. var. confertifolia

2a. Mitrasacme pygmaea var. pygmaea

## 水田白(原变种) shi tian bai (yuan bian zhong)

Androsace tonkinensis Bonati; Mitrasacme capillaris Wallich; M. chinensis Grisebach; M. galiifolia Masamune & Syozi; M. lutea H. Léveillé; M. malaccensis Wight; M. pygmaea var. malaccensis (Wight) H. Hara.

Ephemerals to 20(-30) cm tall. Stems erect, simple or few branched from base. Leaves in a basal rosette or separated by internodes longer than leaves except for uppermost 2 pairs which form a whorl of 4 leaves; leaf blade ovate to oblong, less often linear-lanceolate, hirsute at least when young. Corolla 3–6 mm. Fl. Jun–Jul, fr. Aug–Dec.

Grassy open places; 200–600 m. Anhui, Fujian, Guangdong, Guangxi, Guizhou, Hainan, Hunan, Jiangsu, Jiangxi, Taiwan, Yunnan, Zhejiang [Cambodia, India, Indonesia, Japan, Korea, Malaysia, Myanmar, Nepal, Philippines, Thailand, Vietnam; Australia].

Medicinal.

**2b.** Mitrasacme pygmaea var. grandiflora (Hemsley) Leenhouts, Bull. Jard. Bot. Etat. 32: 455. 1962.

## 大花水田白 da hua shui tian bai

*Mitrasacme polymorpha* R. Brown var. *grandiflora* Hemsley in F. B. Forbes & Hemsley, J. Linn. Soc., Bot. 26: 118. 1889.

Annuals 6–14 cm tall. Stems ascending, much branched from base. Leaves all opposite, separated by internodes longer than leaves; leaf blade ovate to subovate, glabrous or subglabrous. Corolla  $7-8 \times$  ca. 5 mm. Fl. May–Aug, fr. Aug–Nov.

Grassy open places; 200-600 m. S Guangxi [Thailand, Vietnam].

**2c. Mitrasacme pygmaea** var. **confertifolia** Tirel in Aubréville, Fl. Cambodge, Laos & Vietnam 13: 88. 1972.

## 密叶水田白 mi ye shui tian bai

Perennials. Stems woody at base, ascending, much branched. Leaves all opposite, overlapping; leaf blade very narrowly elliptic, slightly leathery, glabrous except for ciliate margins. Corolla 4–5 mm. Fl. Jun–Aug, fr. Aug–Dec.

Grassy open places; 200-600 m. Guangdong, Guangxi [Cambodia, Vietnam].

Flora of China 15: 322–323. 1996.