

Arenaria dawuensis, a new species of the Caryophyllaceae from Sichuan, China

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Abstract *Arenaria dawuensis* A. J. Li & Q. Ban, a new species of the Caryophyllaceae from Dawu County, Sichuan, China, is described and illustrated. It is related to *A. fimbriata* (E. Pritz.) Mattf. in having fusiform roots, cymose inflorescence, two linear styles, but differs by having spatulate leaves, sepals sparsely and long ciliate along margins, and petals shorter than sepals and finely fimbriate at apex.

Key words *Arenaria*, *A. dawuensis* A. J. Li & Q. Ban, Caryophyllaceae, Sichuan, China.

In the course of checking specimens of the Caryophyllaceae in the Herbarium of the Institute of Botany, the Chinese Academy of Sciences (PE), the following new species of the genus *Arenaria* L. was discovered.

Arenaria dawuensis A. J. Li & Q. Ban, sp. nov. Fig. 1

道孚无心菜

Species nova affinis *A. fimbriatae* (E. Pritz.) Mattf., sed foliis spathulatis, sepalis margine sparse longeque ciliatis, petalis sepalis brevioribus apice tenuiter fimbriatis, capsulis 1–2(–3)-seminilibus differt.

Herba perennis. Radix fusiformis, brunnea. Caulis pumilus, erectus, 2–3 cm altus, ex basi iteratim dichotome ramosissimus, purpureus, dense hirsutus. Folia sessilia, spathulata, 7–8 mm longa, 2–2.5 mm lata, crassiuscula, utrinque hirsuta, basi amplexicaulia, margine longe ciliata, apice obtusa vel acuta, costis paullo prominulis. Inflorescentia cymosa, pauciflora; bracteae foliis persimiles, sed minores, utrinque hirsutae; pedicelli 2.5–4 mm longi, paullo crassi, dense hirsuti; calyx basi rotundatus; sepala late lanceolata, 2–2.5 mm longa, viridia, sparse hirsuta, dorso purpureo-uninervia, basi connata, margine membranacea, sparse longeque ciliata, apice acuta; petala lanceolata, alba, circ. 1.5 mm longa, sepalis breviora, basi angusta, apice tenuiter fimbriata; stamina 10, petalis breviora; filamenta filiformia, inferne dilatata, quarum 5 longiora sepalis opposita, basi glandulosa, 5 breviora petalis opposita, basi eglandulosa; antherae ellipticae, flavae; ovarium longe ovoideum; styli 2, lineares. Capsula ellipsoidea, sepalis paullo brevior vel eis aequilonga, 4-valvata; semina 1–2(–3), elliptica, circ. 1 mm longa, dense graciliterque rugosa.

Herb perennial. Root fusiform, brown. Stem dwarf, 2–3 cm tall, erect, with numerous branches from base, purple, densely hirsute. Leaves sessile, spatulate, 7–8 mm long, 2–2.5

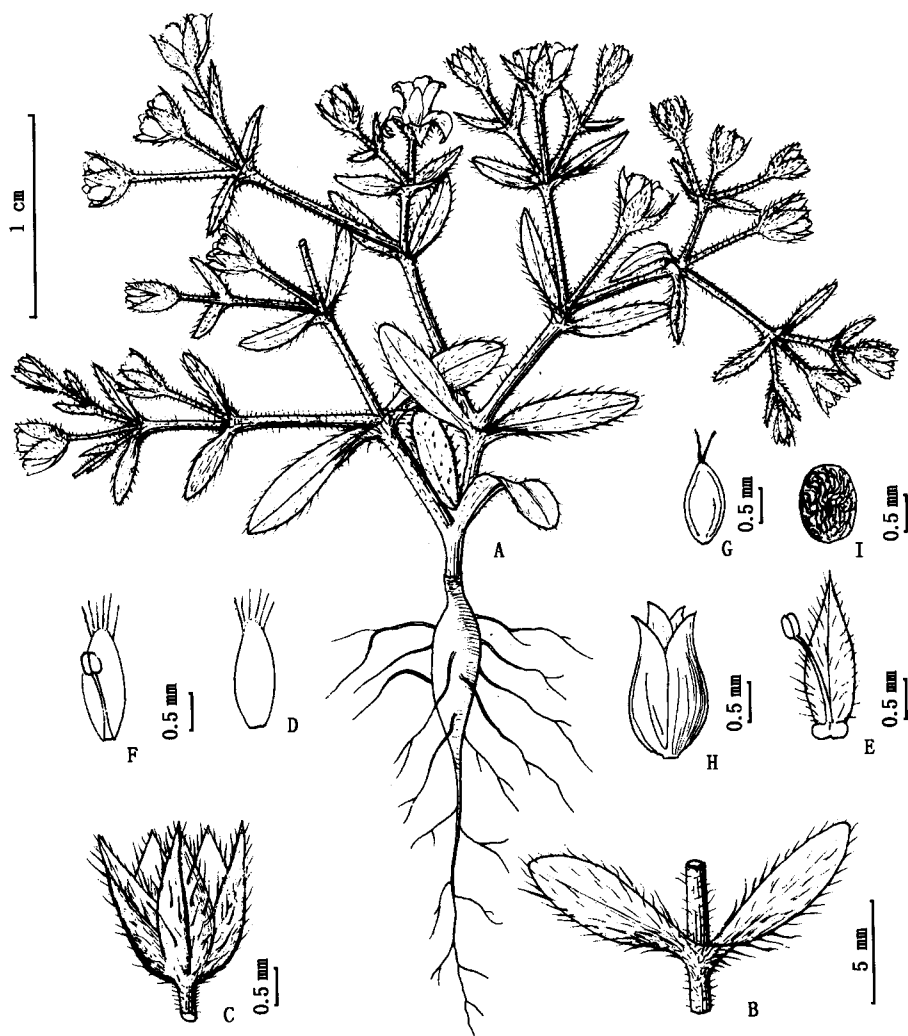


Fig. 1. *Arenaria dauuensis* A. J. Li & Q. Ban. A, habit; B, leaves; C, calyx; D, petal; E, stamen and sepal; F, stamen and petal; G, pistil; H, dehiscent capsule; I, seed. Drawn by Y. B. Sun from the type gathering, H. Smith 11932.

mm broad, thickish, long hirsute on both sides, base amplexicaul, margin long ciliate, apex obtuse or acute; costa slightly raising. Inflorescence cymose, few-flowered. Bracts very similar to leaves but smaller, long hirsute on both sides. Pedicels 2.5–4 mm long, thickish, densely long hirsute. Calyx rounded at base; sepals broadly lanceolate, 2–2.5 mm long, green, sparsely long hirsute, 1-purple-nerved abaxially, base connate, margin membranaceous, sparsely long ciliate, apex acute. Petals lanceolate, white, about 1.5 mm long, shorter than sepals, base narrow, apex finely fimbriate. Stamens 10, shorter than petals; filaments filiform, broadened in the lower part, 5 longer ones opposite to sepals, base glandular, 5 shorter ones opposite to petals, base not glandular; anthers elliptic, yellow-brown. Ovary long ovoid; styles 2, linear. Capsule ellipsoid, slightly shorter than or equal to sepals, 4-valved dehiscent. Seeds 1–2, rarely 3, elliptic, about 1 mm long, densely and

finely rugose.

China. Sichuan (四川): Dawu (道孚), alt. 4600 m, on slope of schistaceous rocks, 1934-07-09, H. Smith 11932 (holotype, here designated, PE).

Arenaria dawuensis is only known from its type locality. According to the collector's note, it grows on slope of schistaceous rocks. This species is related to *A. fimbriata* (E. Pritz.) Mattf. in having fusiform roots, cymose inflorescence, two linear styles, but differs by having spatulate leaves, sepals sparsely and long ciliate along margins, and petals shorter than sepals and finely fimbriate at apex.

四川无心菜属(石竹科)一新种

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摘要 描述了四川无心菜属(石竹科)一新种——道孚无心菜 *Arenaria dawuensis* A. J. Li & Q. Ban。该种具纺锤形根,聚伞花序,花柱2,线形而与缢瓣无心菜 *A. fimbriata* (E. Pritz.) Mattf.相近,但叶匙形,萼片边缘具长缘毛,花瓣短于萼片,顶端细流苏状而不同。

关键词 无心菜属;道孚无心菜;石竹科;四川;中国