

DOI: 10.11931/guihaia.gxzw201711046

引文格式: 王文采. 云南翠雀花属二新种 [J]. 广西植物, 2018, 38(8): 969–972

WANG WT. Two new species of *Delphinium* (Ranunculaceae) from Yunnan [J]. *Guihaia*, 2018, 38(8): 969–972

云南翠雀花属二新种

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摘要: 该文描述了自云南西北部发现的毛茛科翠雀花属二新种: 短葶翠雀花 (*Delphinium breviscaposum* W. T. Wang) 和丝苞翠雀花 (*D. filibracteolum* W. T. Wang)。短葶翠雀花与察隅翠雀花 (*D. chayuense* W. T. Wang) 在亲缘关系上相近, 前者与后者的区别在于短葶翠雀花植株具 3 条簇生短花葶, 总状花序的轴和花梗无毛, 小苞片较长, 萼片较小, 退化雄蕊的瓣片不分裂; 丝苞翠雀花与拟长距翠雀花 (*D. dolichocentroides* W. T. Wang) 近缘, 前者与后者的区别在于丝苞翠雀花的花组成圆锥花序, 花梗、萼片和萼距均较短, 退化雄蕊的爪无附属物, 心皮无毛。

关键词: 毛茛科, 翠雀花属, 二新种, 云南

中图分类号: Q949 文献标识码: A 文章编号: 1000-3142(2018)08-0969-04

Two new species of *Delphinium* (Ranunculaceae) from Yunnan

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Abstract: Two species of the genus *Delphinium* (Ranunculaceae), *D. breviscaposum* W. T. Wang and *D. filibracteolum* W. T. Wang, are described as new from northwestern Yunnan Province. Of them, *D. breviscaposum* W. T. Wang is related to *D. chayuense* W. T. Wang, differing in three fasciculate short scapes, glabrous raceme rachis and pedicels, longer bracteoles, smaller sepals and undivided staminode limbs. And *D. filibracteolum* W. T. Wang is related to *D. dolichocentroides* W. T. Wang, differing in its flower in panicles, shorter pedicels, sepals and spurs, not appendiculate staminode claws, and glabrous carpels.

Key words: Ranunculaceae, *Delphinium*, two new species, Yunnan

短葶翠雀花 图 1

Delphinium breviscaposum W. T. Wang,

sp. nov. Fig. 1.

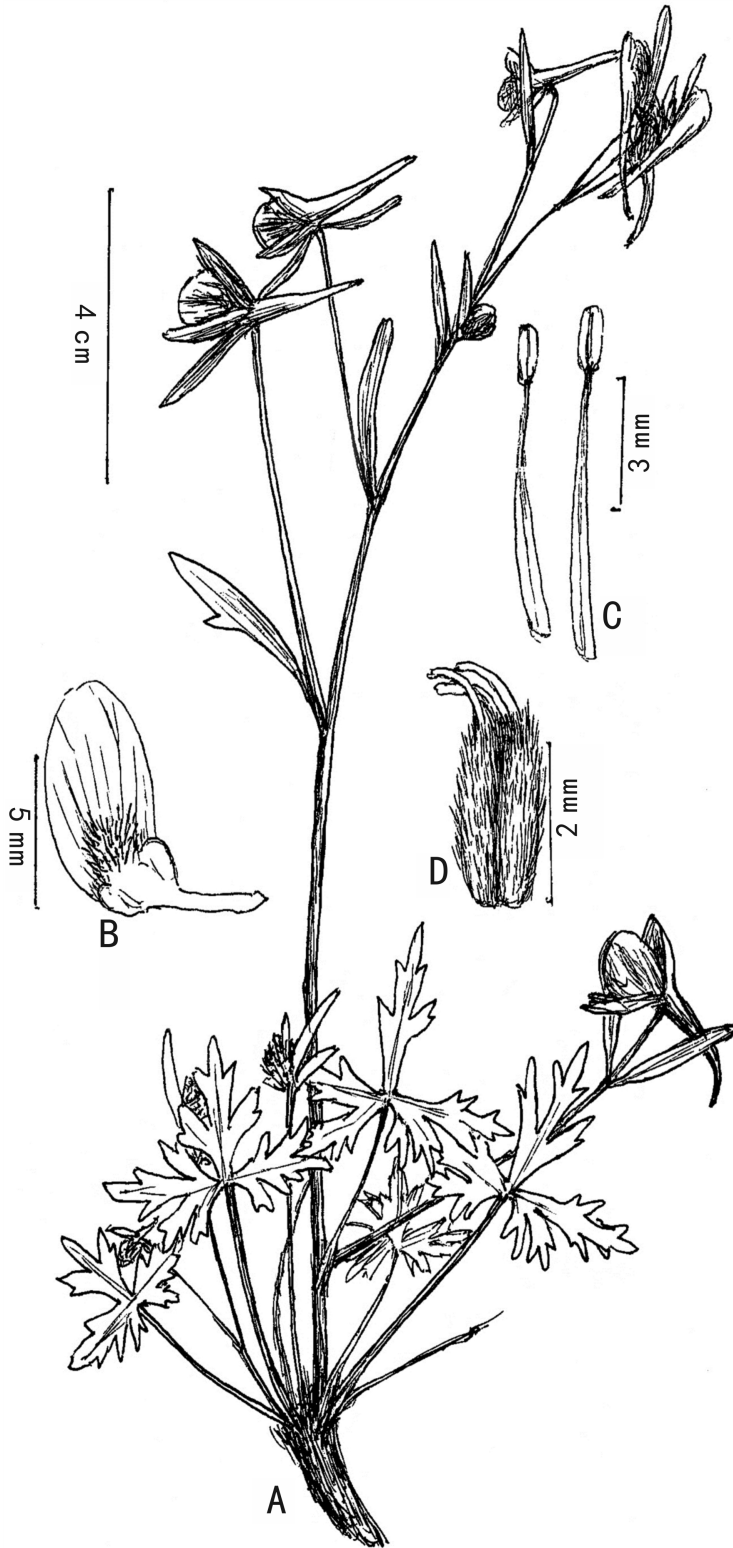
(Sect. *Delphinastrum* DC.)

Species nova haec est affinis *D. chayuensi*

W. T. Wang, a quo scapis three fasciculatis brevibus

2.5–5 cm altis, racemi rhachide cum pedicellis

glabra, bracteolis majoribus 5–20 mm longis, sepalis



注：A. 开花植物；B. 退化雄蕊；C. 2 雄蕊；D. 雌蕊群。（来自模式标本）
 Note: A. Flowering plant; B. Staminode; C. Two stamens; D. Gynoecium. (From holotype)

图 1 短茎翠雀花

Fig. 1 *Delphinium breviscaposum* W. T. Wang

minoribus 9–10 mm longis, petalis apice indivisis et pilis paucis brevibus tectis, staminodiorum limbis indivisis differt. In *D. chayuensi*, scapi solitarii 8–10 cm alti, racemi rhachis cum pedicellis puberula, bracteolae minores 7–9 mm longae, sepala majora 15–18 mm longa, petala glabra apice 2-lobata, staminodiorum limbi 2-lobati sunt.

Perennial herbs. Leaves 5–8, all basal, long petiolate; blades papery, pentagonal, 1.4–4.4 × 1.6–6.6 cm, on both surfaces appressed-pubescent, at base deeply cordate, 3-sect, central segment narrowly rhombic, 3-lobed, with lobes 1–2-lobulate, lateral segments obliquely flabellate, unequally 2-parted, upper lobes larger and subpinnately lobed with 2 pairs of lanceolate lobules; petioles 3–6 cm long, villous. Scapes ca. 3 fasciculate, 2.5–5 cm tall, one larger, with a terminal raceme ca. 20 cm long and 7–10-flowered, another two humile, with racemes 3–5-flowered; rachis and pedicels glabrous; basal bract leaf-like, long petiolate, other bracts shortly petiolate, lanceolate-linear or linear, 2–3.3 × 0.3–0.5 cm, margin with one lobule or entire; pedicels 1–7 cm long, near flower 2-bracteolate; bracteoles linear or lanceolate-linear, 5–20 × 1–3 mm, apex acute. Flower: sepals blue-purple, adaxially glabrous, abaxially appressed-puberulous, upper sepal broadly ovate, ca. 9 × 7 mm, spur subulate, 1.9–2.2 cm long, slightly recurved, at base ca. 4 mm across, lateral sepals orbicular-obovate, ca. 10 × 9 mm, lower sepals navicular-linear, ca. 10 × 3 mm. Petals 2, apex shortly cuspidate and with a few short hairs. Staminodes 2; limbs obovate-oblong, ca. 7.5 × 3.5 mm, at apex rounded, undivided, longitudinally 8-nerved, adaxially below the middle white-barbate, at base on each side 1-appendiculate; claws linear, ca. 6 × 0.8 mm, glabrous, near base not appendiculate. Stamens numerous, glabrous; filaments 4.5–5.5 mm long, lanceolate-linear, longitudinally 1-nerved, near anther filiform; anthers dark-blue, oblong, ca. 1.5 × 0.7 mm, apex obtuse.

Carpels 3; ovaries narrowly ovoid, ca. 2.2 × 0.8 mm pubescent; styles 1.4 mm long, glabrous.

Yunnan (云南): Weixi Xian, Lidiping (维西县, 栗地坪), alt. 3 100 m, in grassy places among forests, fls. blue-purple (林间草地, 花蓝紫色), 2008–07–28, Q. E. Yang & Q. Yuan (杨亲二, 袁琼) 2051 (**holotype** and isotype, PE).

This species is related to *D. chayuense* W. T. Wang, and from the latter differs in its 3 fasciculate short scapes, glabrous raceme rachis and pedicels, longer bracteoles, smaller sepals, and undivided staminode limbs. (Wang & Warnock, 2001)

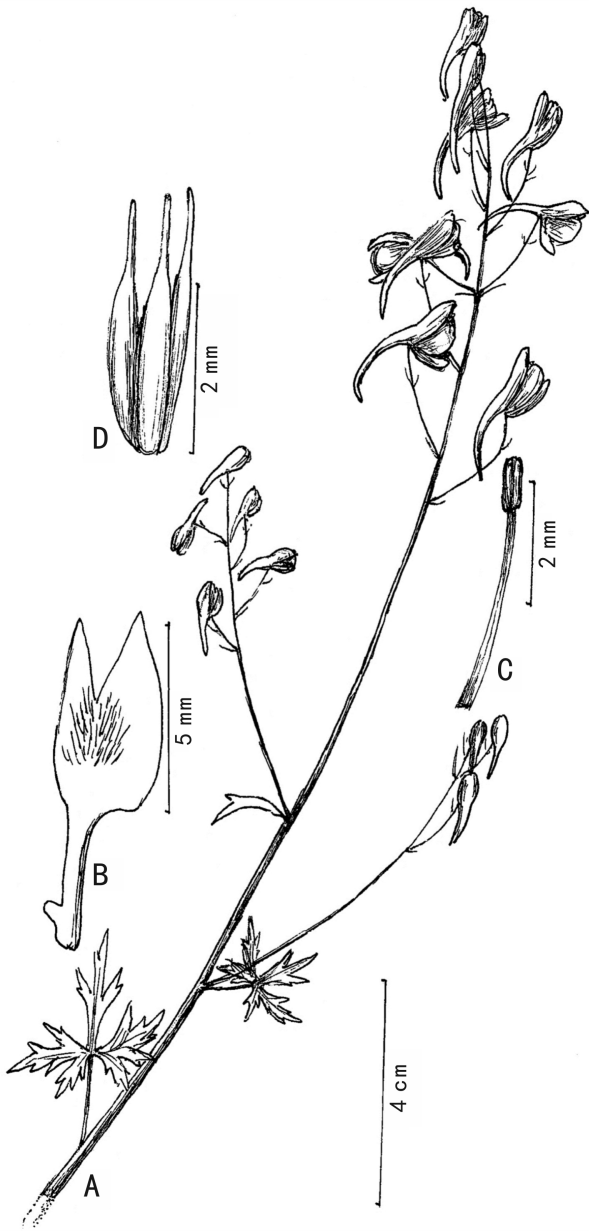
丝苞翠雀花 图 2

Delphinium filibracteolum W. T. Wang, sp. nov. Fig. 2.

(Sect. *Delphinastrum* DC.)

Species nova haec est affinis *D. dolichocentroidi* W. T. Wang, a quo floribus in paniculam dispositis, pedicellis brevioribus usque ad 3.2 mm longis, bracteolis filiformibus, sepalis minoribus 8–9 mm longis, calcare sepalino 15 mm longo, staminodiorum unguibus basi 1-appendiculatis, carpellis glabris recedit. In *D. dolichocentroide*, flores in racemum dispositi, pedicelli usque ad 8 mm longi, bracteolae lineares, sepala majora 14–16 mm longa, calcar sepalinum 27–28 mm longum, staminodiorum unguibus basi haud appendiculati, et carpellorum ovaria puberula sunt.

Perennial herbs. Stems ca. 50–80 cm tall, glabrous. Upper cauline leaves petiolate; blades papery, pentagonal, ca. 2.5 × 4 cm, at base cordate, adaxially appressed-puberulous (hairs 0.1–0.25 mm long), abaxially on nerves with sparse short hairs, 3-sect, central segment narrowly rhombic, at base cuneate, 3-lobed, central lobe lanceolate, 3-lobulate, lateral lobes small, triangular and 1-denticulate, lateral segments obliquely flabellate, unequally 2-parted, upper lobes larger, subpinnately 5-lobulate with lobules narrowly triangular, nerves abaxially slightly prominent; petioles ca. 2 cm long, glabrous. Panicles



注: A. 开花茎干上部分; B. 退化雄蕊; C. 雄蕊;
D. 雌蕊群。(来自模式标本)

Note: A. Upper part of flowering stem; B. Staminode;
C. Stamen; D. Gynoecium. (From holotype)

图2 丝苞翠雀花

Fig. 2 *Delphinium filibracteolum* W. T. Wang

bract leaf-like, other bracts filiform, 4–5 mm long, glabrous; pedicels 1–3.2 cm long, on or above the middle 2-bracteolate; bracteoles filiform, 2.5–3.5 mm long, glabrous. Flower: sepals blue-purple, adaxially glabrous, abaxially appressed-puberulous, upper sepal ovate, ca. 9×6 mm, spur subulate, ca. 15 mm long, slightly recurved, at base ca. 3 mm across, lateral sepals obovate-oblong, ca. 9×3 mm, lower sepals navicular-linear, $8-9 \times 0.2$ mm. Petals 2, glabrous, apex obtuse. Staminodes 2; limbs blue-purple, subquadrate in outline, ca. 5×3.5 mm, 2-lobed (lobes triangular or narrowly triangular, 2 mm long), adaxially above base densely white-barbate; claws linear, ca. 3.5×0.8 mm, glabrous, near base 1-appendiculate. Stamens numerous, glabrous; filaments narrowly lanceolate-linear, ca. 3.5 mm long, longitudinally 1-nerved; anthers oblong, ca. 1×0.45 mm, apex obtuse. Carpels 3, ca. 2.5 mm long, glabrous.

Yunnan (云南): Xianggelila Xian, Napa Village (香格里拉县,那帕村), alt. 3 300 m, in grassy places among forests, fls. blue-purple (林间草地,花蓝紫色), 2008-08-15, Q. E. Yang & Q. Yuan (杨亲二,袁琼) 2258 (**holotype** and isotype, PE).

This species is related to *D. dolichocentroides* W. T. Wang, and from the latter differs in its flowers in panicle, shorter pedicels, sepals and spur, 1-appendiculate staminode claws and glabrous carpels. (Wang & Warnock, 2001)

Acknowledgements I am grateful to Madam ZHONG Xiaohong for type-writing the manuscript of this paper.

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terminal, 15–30 cm long, consisting of two or three racemes, terminal raceme 13–18(–30) cm long, 9–11(–30)-flowered, lateral racemes 6–8 cm long, 3–5-flowered; rachis and pedicels puberulous; basal