

TWO NEW DELPHINIUMS FROM ANATOLIA

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ABSTRACT. Two new species of *Delphinium* (Ranunculaceae) belonging to sect. *Delphinastrum* DC., are described and illustrated from S and NE Anatolia: *Delphinium cilicicum* P. H. Davis & Kit Tan, and *D. munzianum* P. H. Davis & Kit Tan.

***Delphinium cilicicum* P. H. Davis & Kit Tan, sp. nov.** (sect. *Delphinastrum* DC.). Fig. 1A-D.

A *D. caseyi* B. L. Burt fl. atrocyaneis, calcar sepalis saccatiore sepalo duplo longiore (non sesquilongiore), horizontali et laciniis foliorum tenuioribus differt.

Herba perennis (radix incompleta). *Caulis* flexuosus, crispulus ad 40cm altus, sparse paniculatus. *Folia caulina* palmatisecta, profunde dissecta, lobis lanceolatis acutis ad 3-15mm longis, 1-2mm latis. *Racemi* 2-4, laxi, pilis crispatis. *Flores* atrocyaneae. *Calcar* horizontale, c.12mm longum, tenue, breviter obtuse saccatum. *Petala superiora* 7mm longa, ad 1mm acute bifida. *Petala inferiora* 8-9mm longa; unguis 4mm, limbus ovatus, c.5mm, ad medium bifidus, albopilosus. *Folliculi* 3, $\pm$ glabri, longi; stylus c.3mm longus. *Fl.* Jul.-Aug.

Type: Turkey C5 Adana: Karanfil Dağ, outlier of Ala Dağ (above Parakenda Solakli), N of Pozanti, ravine, 1980m, 29 vii 1966, F. A. Bisby B39 (holo. E).

TURKEY. S Anatolia. C5 Niğde: near Maden, side valley 1.2km above main valley, talus and boulders, 30 vii 1969, J. Darrah 337 (E). Adana: 3-4km N of Pozanti, scree, 31 vii 1971, Aberdeen Univ. Amanus Exped. N1 807 (E).

Endemic to the Cilician Taurus and apparently allied to *D. caseyi* B. L. Burt in *Kew Bull.* 1954:67 (1954), described from Cyprus (see Fig. 1 E-H). *D. cilicicum* is distinguished from the latter by its dark blue flowers, horizontal and more saccate sepal spur which is $2 \times$ sepals (not $1\frac{1}{2} \times$), and the more slender leaf laciniae.

***Delphinium munzianum* P. H. Davis & Kit Tan, sp. nov.** (sect. *Delphinastrum* DC.). Fig. 1I-M.

Herba perennis. *Radix* irregulariter tuberosa. *Caules* 43-50cm alti, paulo flexuosi, pilis inferne crispulis, superne aureopiliferis. *Folia caulina* c.4, vaginata, petiolis crispulis. *Lamina* 4-4.5cm lata, ambitu rotundata, ad basin palmatisecta, laciniis linearibus obtusis, 0.5-1mm latis. *Racemus* 15-20-florus, breviter pilosus vel superne crispatus. *Pedicelli* erecti, fere ad medium bracteolati; bracteoli c.4mm longi. *Flores* cyanei. *Calcar* horizontale, attenuatum, 15mm, acutum. *Sepala* obovata, 10×6 mm, obtusa. *Petala calcarata* 17mm longa, tenuia, acuta. *Petala superiora* fere ad medium bifida. *Petala inferiora* ungue 4mm, limbo 6mm, ad $\frac{2}{3}$ bifido, albo-piloso. *Folliculi* 3, c.10mm longi; stylus 2.5mm longus. *Fl.* Jul.

Type: Turkey A8 Erzurum: 26km from Tortum to Oltu, west side of pass,

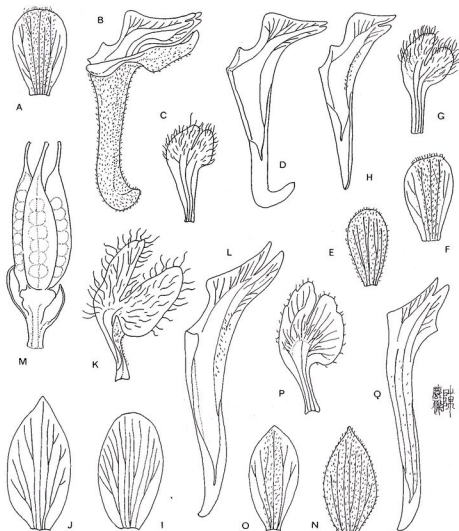


FIG. 1. A-D, *Delphinium cilicicum*: A, lateral sepal; B, upper petals within spurred posterior sepal; C, lower petal; D, upper petal. E-H, *D. caseyi*: E, lower sepal; F, lateral sepal; G, lower petal; H, upper petal. I-M, *D. munzianum*: I, lower sepal; J, lateral sepal; K, lower petal; L, upper petal; M, mature follicles. N-Q, *D. carduchorum*: N, lower sepal; O, lateral sepal; P, lower petal; Q, upper petal. All c. $\times 3$.

rocky limestone slopes, flowers sky blue, 2200m, 29 vii 1966, *P. H. Davis* 47482 (holo. E).

A distinctive new species endemic to NE Anatolia. Perhaps related to *D. carduchorum* Chowdhuri & Davis (Fig. 1N-Q) from SE Anatolia, from which it differs by its even narrower leaf laciniae and much larger, sky blue flowers. The species is here named in honour of the late Dr Philip A. Munz who had made a special study of delphiniums and larkspurs over many years.

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