

## Contribution to the Genus *Oxytropis* from West Pakistan

By

Syed Irtifaq ALI

Department of Botany, University of Karachi, Pakistan

With 3 Figures

Received October 26, 1964

Recently the author published a revision of the genus *Oxytropis* DC. from W. Pakistan and N. W. Himalayas (ALI 1959). Subsequently some more material, collected by British Museum Expedition to Chitral in 1958, was received for identification from British Museum (Natural History), London. In all twenty six gatherings represented the genus *Oxytropis*, of which one species, *Oxytropis gloriosa* ALI is being described here for the first time. *O. platonychia* BUNGE, hitherto considered a central Asian endemic (FEDTSCHENKO & VASSILCZENKO 1948) is recorded here for the first time from W. Pakistan also. The range of distribution of *O. tatarica* CAMB. ex BUNGE and *O. glabra* DC. has also increased considerably.

The species representing the recently collected material only have been enumerated. In each case information about the geographical distribution and flowering period has also been given.

### Enumeration of species

#### 1. *Oxytropis chitralensis* ALI 1959: 50

Representative Specimens: Chitral, Shah Jinali, 36° 46' N, 72° 50' E, 12,000 ft., pale bluish purple, fairly dry soil, among *Artemisia*, 28. 6. 58, S. A. BOWES LYON 1028 (BM); Gasin, 36° 36' N, 72° 55' E., 11,000 ft., dull purplish pink, dry mountain pasture land, 18. 6. 58, S. A. BOWES LYON 954 (BM); Yarkhun, 10,000 ft., 20. 6. 58, between 36° 30' N, 72° 40' E and 36° 48' N, 73° 5' E, pale yellow, growing among *Artemisia*, 20. 6. 58, S. A. BOWES LYON 1055 (BM).

Distribution: Chitral.

Flowering Period: June-July.

2. *Oxytropis tatarica* CAMB. ex BUNGE 1874: 16

Representative Specimens: Chitral: Agram, Arkari Gol, W. of Tirich Mir, 10,500 ft., on stony ground, corolla cherry red, 10. 6. 58, J. D. A. STAINTON 2645 (BM); Shah Jinali Pass, N. of Mastuj, 14,000 ft., on open slopes, corolla purplish pink, 1. 8. 58, J. D. A. STAINTON 3048 (BM); Shah Jinali, 36° 46' N, 72° 50' E, 12,500 ft., bluish pink, dry stony soil, 27. 6. 58, S. A. BOWES LYON 1019 (BM); Ojhor, 36° 4' N, 71° 48' E, 12,300 ft., deep crimson, grey peat, dry slope facing north, 10. 6. 58, S. A. BOWES LYON 866 (BM).

Distribution: W. Pakistan, Chitral; Kashmir; Tibet, Nepal; India, N. Punjab.

Flowering Period: June — September.

3. *Oxytropis lapponica* (WAHL.) GAY 1872: 30

Representative Specimens: Chitral: Khot An, N. of Mastuj, between Turikho and Mastuj rivers, on damp banks, corolla mauvish blue, 11. 7. 58, J. D. A. STAINTON 2864 (BM).

Distribution: Pakistan, Chitral; India, Punjab; Kashmir; Tibet; Russia, Altai, Tien Shan, Dzungaro-Tarbagatai, Caucasus (FEDTSCHENKO & VASSILCZENKO 1948); Norway; Sweden; Switzerland; Austria; Hungary; Italy, Bormio; Spain, Prov. Huesca.

Flowering Period: June — August.

4. *Oxytropis glabra* DC. 1802: 95

Representative Specimens: Chitral: Yarkhun (Gurawr) between 36° 30' N, 72° 40' E and 36° 48' N, 73° 5' E, bright purple, very abundant and showy in rocky pasture land, 16. 6. 58, S. A. BOWES LYON 921 (BM); Shah Jinali, 36° 46' N, 72° 50' E, 11,500 ft., purple blue, moist well drained soil, peaty soil, 28. 6. 58, S. A. BOWES LYON 1026 (BM); Chitral-Mastuj track, Kuragh, 9,500 ft., at edge of irrigation channel forming a mat, corolla mauve, 26. 5. 58, J. D. A. STAINTON 2514 (BM).

Distribution: W. Pakistan, Chitral; Kashmir; Tibet; Mangolia; China, Kansu, Shansi (PETER-STIBAL, 1938); Russia, Angara Sayan, Lena-Kolyma, Aralo-Caspia, Balkhash, Irtysh, Upper Tobol (FEDTSCHENKO & VASSILCZENKO 1948), Alati, Dauria, Tsungaro-Tarbagatai, Tien Shan, Pamir Alai, Turkistan.

Flowering Period: July — August.

5. *Oxytropis immersa* (BAKER) BUNGE ex FEDTSCHENKO 1907: 212

Representative Specimens: Chitral: Ojhor, 36° 4' N, 71° 48' E, 12,000 ft., blue purple, damp alpine pasture slope, 10. 6. 58, S. A. BOWES LYON 865 (BM); Shah Jinali Pass, N. of Mastuj, 14,000 ft., on

open slopes in mats, calyx mauvish green, corolla mauve, 31. 7. 58, J. D. A. STAINTON 3037 (BM); Owir An, S. E. of Tirich Mir, 12,000 ft., at edge of stream forming a mat, calyx and corolla white, 26. 6. 58, J. D. A. STAINTON 2755 (BM); Chitral, 11,000 ft., bright violet purple, dry mountain pasture land, 8. 6. 58, S. A. BOWES LYON 955 (BM); Shah Jinali Pass, N. of Mastuj, 14,000 ft., on open slopes, corolla purplish blue, 1. 8. 58, J. D. A. STAINTON 3047 (BM).

Distribution: W. Pakistan, Chitral; Persia; Afghanistan; Russia, Tien Shan, Pamir Alai (FEDTSCHENKO & VASSILCZENKO 1948).

Flowering Period: June — August.

6. *Oxytropis mollis* ROYLE ex BENTH. in ROYLE 1835: 198

Representative Specimens: Chitral: Rumbur, 36° 46' N, 71° 40' E, stamens bluish pink, moist hill side facing south or river bed, sandy soil, 17. 5. 58, S. A. BOWES LYON 661 (BM); Madaglasht, 35° 48' N, 72° 2' E, rich moist soil beneath fir trees on northern slope, pale bluish purple, 6. 5. 58, S. A. BOWES LYON 626 (BM); Ziarat, Lowari Pass, 9,500 ft., on fen slopes, corolla mauvish, pink, 2. 6. 58, J. D. A. STAINTON 2564 (BM).

Distribution: Pakistan, N. W. F. Province; Kashmir; India, N. Punjab, above 7,000—9,000 ft.

Flowering Period: May — September.

7. *Oxytropis platonychia* BUNGE 1874: 44 (Fig. 1)

Synonym: *O. longiapiculata* ALI Mss. name (nomen nudum).

Holotype: Habitat in regno Kokand prope Kotschi-alai et in jugo Dshiptyk in alpinis, FEDTSCHENKO (LE — not seen).

Representative Specimens: Chitral: Laspur Harchin, 36° 2' N, 72° 27' E, 13,000 ft., pale purple, scree, 16. 7. 58, S. A. BOWES LYON 39 (BM); Bang gol, 14,500 ft., 4. 8. 58, J. D. A. STAINTON 3064 (BM, RAW); Laspur (Reshun), 36° 2' N, 72° 27' E, 15,000 ft., pale yellow scree, 25. 7. 58, S. A. BOWES LYON 114 (BM).

Distribution: Pakistan, Chitral; Russia, Tien Shan, Pamir Alai (FEDTSCHENKO & VASSILCZENKO 1948).

This is the first record of this species from W. Pakistan (Chitral). Previously it was regarded as a Central Asian endemic.

Flowering Period: July — August.

8. *Oxytropis gloriosa* ALI sp. nov. (Fig. 2—3)

Radix haud visa. Caulis reductus. Folia stipulis lateralibus liberis, c. 7—11 mm longis, supra pilosis, infra glabris, margine integris, apice acutis, rhachide c. 3—24 cm longa, petiolo c. 1.2—7.0 cm longo. Foliola

opposita, subopposita vel alterna 11—35, petiolulo quam 1 mm longiore, lamina c. 6—11 mm longa, c. 2—3 mm lata, elliptica vel subobovata, utrinque aequaliter albo-pilosa, margine integra, apice acuto. Inflorescentia racemosa, pedunculo c. 12—25.3 cm longo. Flores pedicellis c.

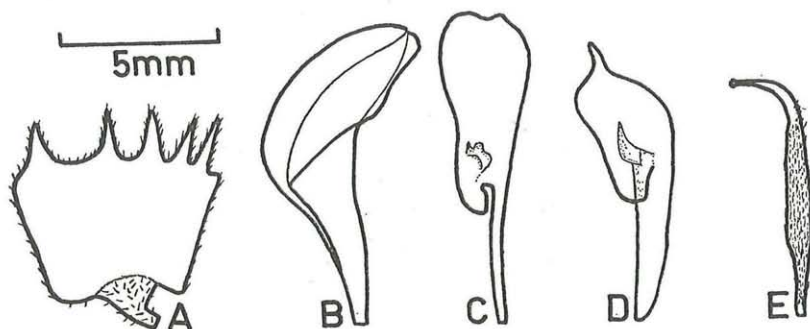


FIG. 1

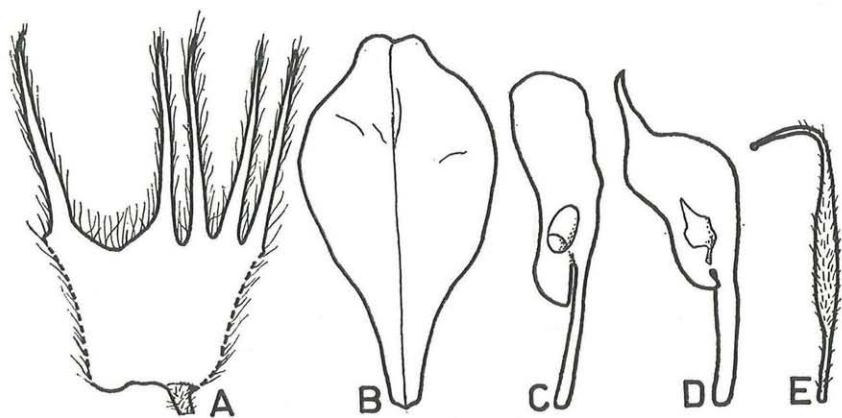


FIG. 2

Fig. 1. *Oxytropis platonychia* BUNGE [STAINTON 2368]. — Fig. 2. *Oxytropis gloriosa* ALI [STAINTON 2671 (BM)]. — A: Calyx, B: Vexillum, C: Wing, D: Keel, E: Ovary.

1—2 mm longis, albo- vel nigro-pilosis; bracteis c. 2—3 mm longis, c. 1 mm latis, supra pilosis, infra glabris. Calyx pilosus, c. 11 mm longus, dentibus superioribus c. 8 mm, dentibus inferioribus c. 6—7 mm longis. Vexillum c. 12 mm longum, c. 7 mm latum; alis c. 10—11 mm longis, c. 3 mm latis, clave c. 5 mm longa, auricula ca. 1—2 mm longa; carina

c. 8—9 mm longa, c. 3 mm lata, clavo c. 4—5 mm longo, mucrone c. 2—3 mm longo. Stamina diadelphia, (5+4) 1, filamentis c. 10—11 mm longis. Ovarium stipitatum (stipite c. 2 mm longo), c. 4—5 mm longum, c. 1 mm latum, pilosum, stylus c. 2—3 mm ab apice angulo recto superne curvatus, basin versus pilosus, supra glaber; stigma capitatum.

Holotype: Chitral Gol, W. of Chitral, 10,000 ft., 14. 6. 58, J. D. A. STANTON 2671 (BM).

This species is related to *O. linczewskii* GONTSCH. (Sect. *Eumorpha* BUNGE) but it can easily be differentiated on the basis of the characters of the floral parts. In *O. gloriosa* ALI the vexillum is c. 12 mm long, wing is c. 10—11 mm long and keel is 8—9 mm long. In *O. linczewskii* GONTSCH. on the other hand the length of the floral parts is as follows: vexillum = 15—16 mm, wing = c. 14—15 mm and keel c. 4—5 mm. It is to be noted that in *O. gloriosa* ALI the keel is more than half the length of vexillum whereas in *O. linczewskii* GONTSCH. the keel is about one third the length of vexillum.

Distribution: Chitral.

Flowering Period: June.

#### 9. *Oxytropis* sp. A — Insufficient material

Chitral, Shishi Gol, E. of Drosh, 6,000 ft., on stony ground, corolla pale mauve, 5. 5. 58, J. D. A. STANTON 2368 (BM).

#### 10. *Oxytropis* sp. B — Insufficient material

Birir, 35° 38' N, 71° 44' E, 9,000 ft., 20. 5. 58, bluish or dirty white, steep Pine covered slope, facing south, S. A. BOWES LYON 687 (BM).

#### 11. *Oxytropis* sp. C — Insufficient material

Chitral, Golen (Krui Uts), 36° 1' N, 72° 10' E, 14,000 ft., pale violet and white, land scree, 26. 7. 58, S. A. BOWES LYON 109 (BM).

### A c k n o w l e d g e m e n t s

I am grateful to the authorities of British Museum (Natural History), London, for kindly sending the specimens on loan and for attending to my various queries. I beg to express my indebtedness to Sir George TAYLOR, Director, Royal Botanic Gardens, Kew, for his kind advice and encouragement. I am thankful to Dr. A. BORISSOVA of the Botanical Institute of the Academy of Sciences of the U.S.S.R., Leningrad, who has kindly checked and corrected the identification of some of the taxa. My thanks are also due to Mr. B. L. BURTT of Edinburgh, Dr. K. H. RECHINGER of Vienna and Dr. W. WEIBEL of Geneva for helping me in various ways.

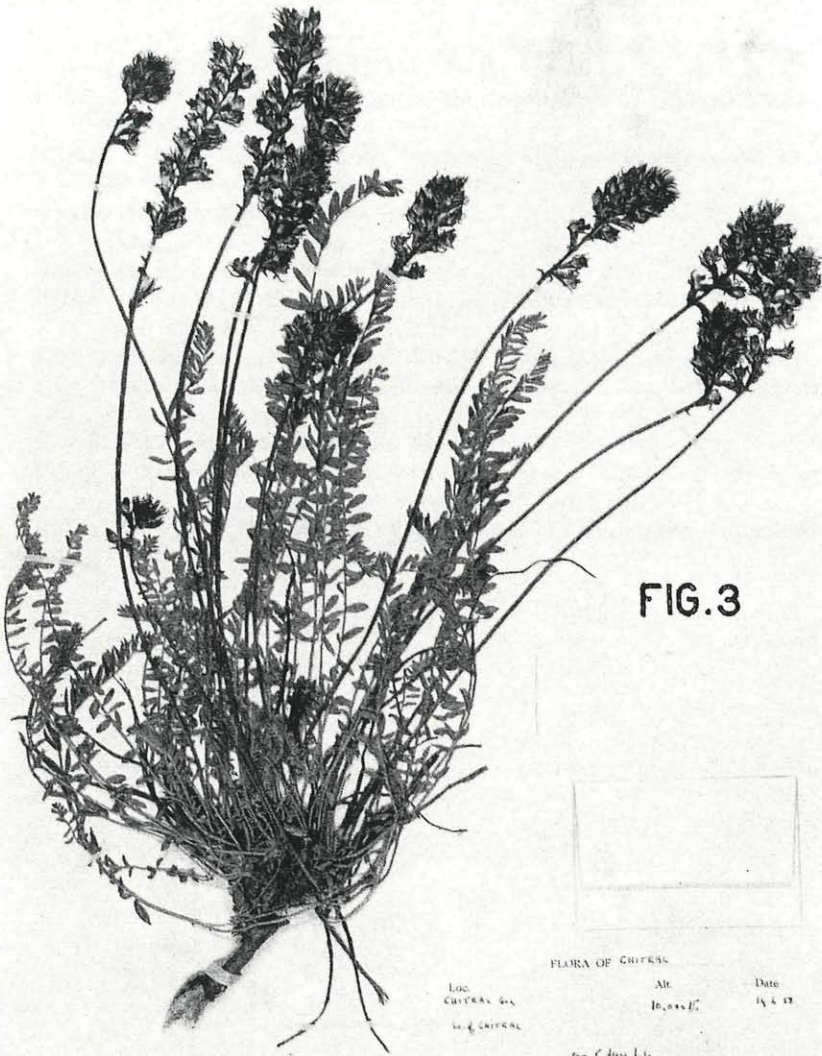


FIG. 3

*Oxytropis gloriosa*, ALI sp. nov.  
 N. A. Tash. Determinavit S. F. ALI

FLORA OF CHIRKAZ

Loc.	Alt.	Date
CHIRKAZ GUA	10,000 ft	14. 6. 19
in f. CHIRKAZ		

Example sheet, herb.

Sheet, name.

Coll. J. D. A. STANTON

No. 2671

Fig. 3. *Oxytropis gloriosa* ALI, Holotype (BM).



### Summary

A new species, *Oxytropis gloriosa* ALI has been described. *O. platonychia* BUNGE, hitherto considered a Central Asian endemic, has been reported for the first time from W. Pakistan also.

### Literature Cited

- ALI S. I. 1959. Revision of the genus *Oxytropis* from W. Pakistan and. N. W. Himalayas. — *Phyton* 8: 49—61.
- BUNGE A. 1874. Species generis *Oxytropis* DC. — *Mem. Acad. Imp. Sci. St. Petersb. Ser. 7: 22 (1): 1—166.*
- CAMBESSÉDES J. 1884. *Plantae rariores ...* In: JAQUEMONT V., *Voyage dans l'Inde ... 4.* — Paris.
- CANDOLLE A. P. de. 1802. *Astragalogia ...* — Parisiis.
- FEDTSCHENKO O. & B. 1907. *Conspectus Florae Turkestanicae, XXXIII.* — *Beih. bot. Cbl. 22/2: 197—221.*
- FEDTSCHENKO B. A. & VASSILCZENKO I. T. 1948. *Oxytropis* in KOMAROV V. L., *Flora of U. R. S. S., 13: 1—191* (except sections *Polyadena* and *Baicalia*) — Mosqua.
- GAY J. 1827. *Correspondance.* — *Flora ... 10: 25—30.*
- PETER-STIBAL E. 1938. *Revision der chinesischen Astragalus- und Oxytropis-Arten.* — *Acta Horti gotoburg. 12: 21—85.*
- ROYLE J. F. 1835. *Illustrations of the botany ... Himalayan mountains ... 1.* — London.



# ZOBODAT - [www.zobodat.at](http://www.zobodat.at)

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Phyton, Annales Rei Botanicae, Horn](#)

Jahr/Year: 1964

Band/Volume: [11\\_1\\_2](#)

Autor(en)/Author(s): Ali Syed Irtifaq

Artikel/Article: [Contribution to the Genus Oxytropis from West Pakistan. 102-107](#)