

REICHENBACHIA

Staatliches Museum für Tierkunde Dresden

Band 22

Ausgegeben: 3. September 1984

Nr. 11

A New *Diplocephalus* Species from the Bulgarian Mountains

(Arachnida, Araneae, Erigonidae)

With 9 Figures

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The material used by description of the new species is found in high altitude area in Pirin mountain. The new species is not established below the upper border of the forest.

I am especially obliged to Dr. K. THALER (Austria), Dr. A. F. MILLIDGE (England) and Prof. P. M. BRIGNOLI (Italia) with which the new species was discussed.

Diplocephalus altimontanus sp. n.

Dicymbium tibiale: DRENSKY (non BLACKWALL, 1836), 1921, p. 83.

Male (measurements in mm): Total length — 1.64. Cephalothorax, length — 0.73, width — 0.54, dark brown. Head area raised and impressed at side (fig. 1, 2). Ocular area with few hairs. Eyes: Posterior medians five diam. apart, and more than one diam. from laterals. Anterior medians one diam. apart, and more than two diam. from laterals. Chelicerae, length — 0.27, width — 0.12, armed with 5 well developed teeth on outer row and 4 denticles on inner row, yellow to yellow-brown. Sternum, length — 0.45, width — 0.45, grey to black. Abdomen, length — 1.00, grey to black.

Legs yellowish, yellow-brown. Tibial spines reduced or absent.

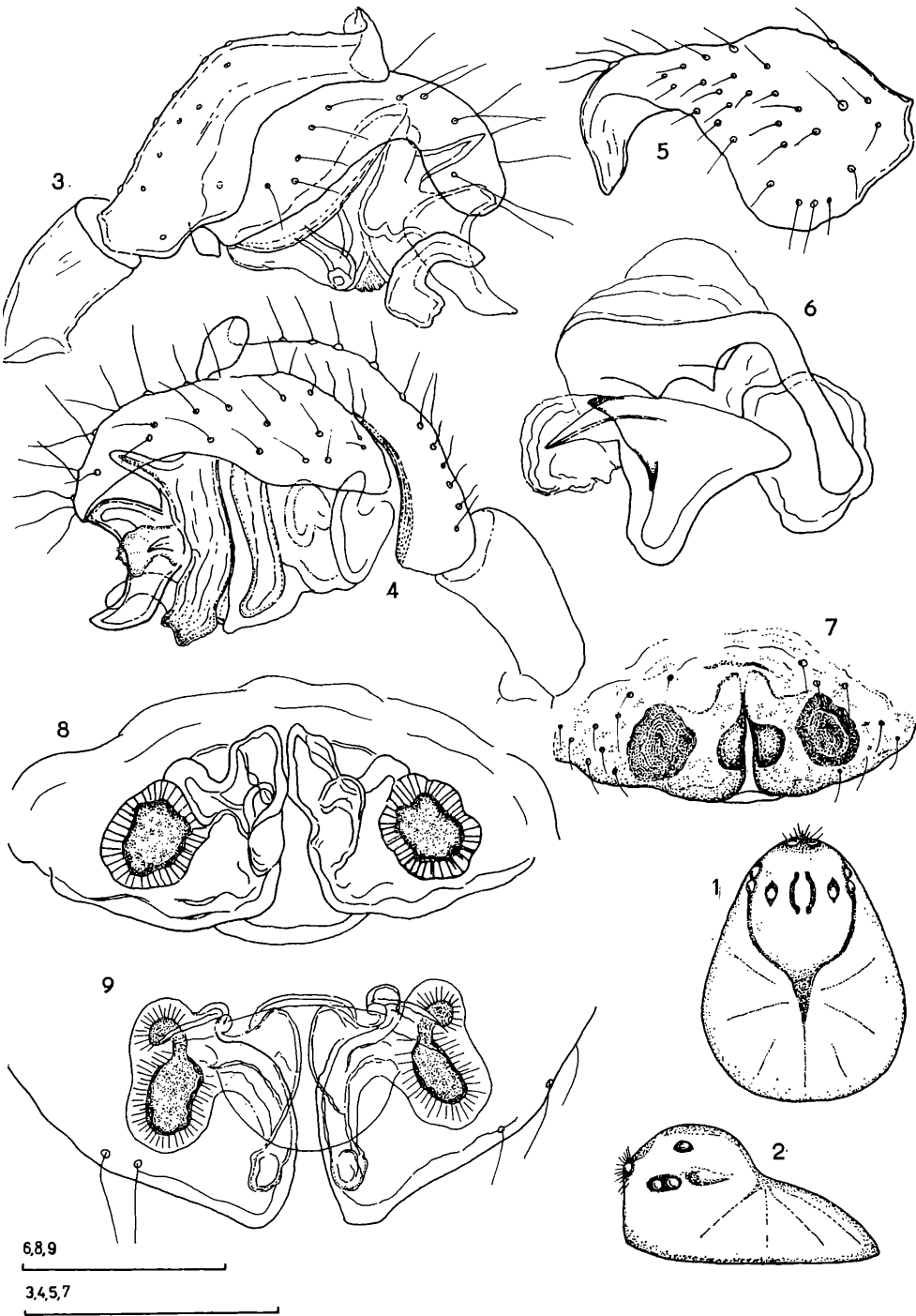
Legs	Fe	Pt	Ti	Mt	Ta	Total
I	0.56	0.18	0.54	0.43	0.36	2.07
II	0.54	0.18	0.53	0.43	0.36	2.04
III	0.49	0.18	0.40	0.38	0.32	1.77
IV	0.69	0.18	0.64	0.53	0.36	2.40

Male palpus (fig. 3–6): Coloured as legs. Tibial apophysis (fig. 6) distinct from the other European species. The tegulum is narrow but prominent. The embolic division has radical part visible from both sides. The embolic division is visible only from outer outer and ventral sides.

Female (measurements in mm): Total length — 2.01. Cephalothorax, length — 0.73, width — 0.54, dark-brown. Eyes: Posterior medians one diam. apart and more than 1 diam. from laterals. Anterior medians one diam. apart and one diam. from laterals. Chelicerae, length — 0.27, width — 0.14, armed with 5 well developed teeth on outer row and 5 denticles on inner row, yellow to yellow-brown. Sternum, length — 0.45, width — 0.45, grey to black. Abdomen, length — 1.27, grey to black.

Legs yellowish, yellow brown. Tibiae I–II with two spines. Tibiae III–IV with 1 spine.

Legs	Fe	Pt	Ti	Mt	Ta	Total
I	0.58	0.18	0.54	0.45	0.36	2.11
II	0.51	0.18	0.51	0.43	0.36	1.99
III	0.45	0.18	0.40	0.36	0.36	1.75
IV	0.66	0.18	0.64	0.47	0.36	2.31



Female palpus: Fe — 0.31, Pt — 0.09, Ti — 0.12, Ta — 0.31.

Epigyne and vulva presented on fig. 7, 8, 9.

Discussion *Diplocephalus altimontanus* sp. n. belongs to the *picinus* group. The new species is more related to *D. picinus* (BLACKWALL) and *D. turcicus* BRIGNOLI. The last species is known from Turkey only (BRIGNOLI, 1972). The tibial apophysis is quite distinct from the other European species but resembles this by *D. picinus*.

Material and locality Pirin mount., peak Vihren (2914 m. a. s. l.), 1 ♂ holotype and 12 ♀♀ paratypes, 3. VII. 1979. All other specimens are paratypes: Pirin mount., peak Vihren, 1 ♀, 12. VII. 1915 (leg. P. DRENSKY); Pirin mount. peak Vihren (2914 m. a. s. l.), 2 ♀♀, 8. VIII. 1980; Pirin mount., circus Banski suhodol (2500 m. a. s. l.), 5 ♂♂, 19 ♀♀, 10. VIII. 1981; Pirin mount., peak Kralev dvor (2600 m. a. s. l.), 1 ♀, 20. VII. 1981; Pirin mount., Ribno ezero (2500 m. a. s. l.), 5 ♀♀, 4. VIII. 1982; Pirin mount., Waliavishki tshukar (2600 m. a. s. l.), 3 ♀♀, 6. VIII. 1982.

Diplocephalus altimontanus sp. n. inhabits damp places, under stones.

References

- BRIGNOLI, P. M., 1972: Terzo contributo alla conoscenza dei ragni cavernicoli di Turchia. — *Fragmenta Entomologica*, Roma VIII, fasc. 3: 161–190.
 ДРЕНСКИ, П., 1921: Паяци от Източна Македония и Пирин-планина. — *Списание на БАН, София XXIII*: 1–80.

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Fig. 1–9. *Diplocephalus altimontanus* sp. n.

1–2 — carapace; 3 — male palp, internal view; 4 — male palp, external view; 5 — male palpal tibia (from above); 6 — embolic division; 7 — epigyne; 8, 9 — vulva.
 Scale — 0.1 mm, fig. 6, 8, 9; Scale — 0.2 mm, fig. 3, 4, 5, 7

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Zeitschrift/Journal: [Reichenbachia](#)

Jahr/Year: 1984

Band/Volume: [22](#)

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Artikel/Article: [A New Diplocephalus Species from the Bulgarian Mountains \(Arachnida, Araneae, Erigonidae\) 91-93](#)