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A NEW RECORD OF THE GENUS *PARANEMASTOMA* REDIKORZEV, 1936 (OPILIONES: NEMASTOMATIDAE) FROM TURKEY¹

Kemal Kurt,² Ömer Köksal Erman,³ and Nataly Yu. Snegovaya⁴

ABSTRACT: *Paranemastoma kalischevskyi* (Roewer, 1951) is recorded in Turkey for the first time. The morphological characteristic features, exact locality and general distribution are provided for this species.

KEY WORDS: Opiliones, Nemastomatidae, *Paranemastoma kalischevskyi*, new record, Turkey

INTRODUCTION

The Nemastomatidae fauna of Turkey is rather poorly known in comparison with other regions of the world. To date, 162 species in 16 genera have been described worldwide (Hallan, 2005). Of these, 13 species belonging to 8 genera have been recorded from Turkey. These are: *Giljarovia tenebricosa* (Redikorzev, 1936), *G. turcica* Gruber, 1976, *Histicostoma caucasicum* (Redikorzev, 1936), *H. creticum* (Roewer, 1927), *Mediostoma ceratocephalum* Gruber, 1976, *M. haasi* (Roewer, 1953), *Mitostoma gracile* (Redikorzev, 1936), *Nemastoma bidentatum sparsum* Gruber & Martens, 1968, *Paranemastoma superbum* Redikorzev, 1936, *P. werneri* Kulczyński, 1903, *Pyza anatolica* (Roewer, 1959), *P. taurica* Gruber, 1979, *Vestiferum alatum* Martens, 2006 (Bayram et al., 2010; Kurt, et al., 2010). Here we report *Paranemastoma kalischevskyi* as new to Turkey, increasing the number of species of Nemastomatidae in Turkey to 14.

MATERIALS AND METHODS

This study was carried out between April and September, 2011 in Gümüşhane province in Turkey. Samples were collected with pinset and aspirator. The identification of species was made under an Olympus ZX61 stereomicroscope. Examined specimens are preserved in 70% ethanol and deposited in the collection of Arachnological Laboratory of Şiran Vocational School, Gümüşhane University (GUSAL). All measurements are in millimeters.

Material examined: TURKEY: Gümüşhane province, Torul district, Zigana mountain, (1♂, 2♀♀), 23.VI.2011; Kürtün district, Örumcek Forest, (1♂, 4 juvenile), 26.IX.2011. This species was collected from under stones and leaves.

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Abbreviations: An (Anterior), Apo (Apophyse), Bs (Basal segment), Ch (Chelicera), Cs (Clavate setae), Ds (Distal segment), Fd (Fixed digit), Fe (Femur), Hr (Hairs), Md (Movable digit), Pss (Pseudosegments), Pt (Patella), Sbt (Small blunt tubercles), Ta (Tarsus), Tb (Tibia), Te (Teeth), To (The ocularium), Tr (Trochanter).

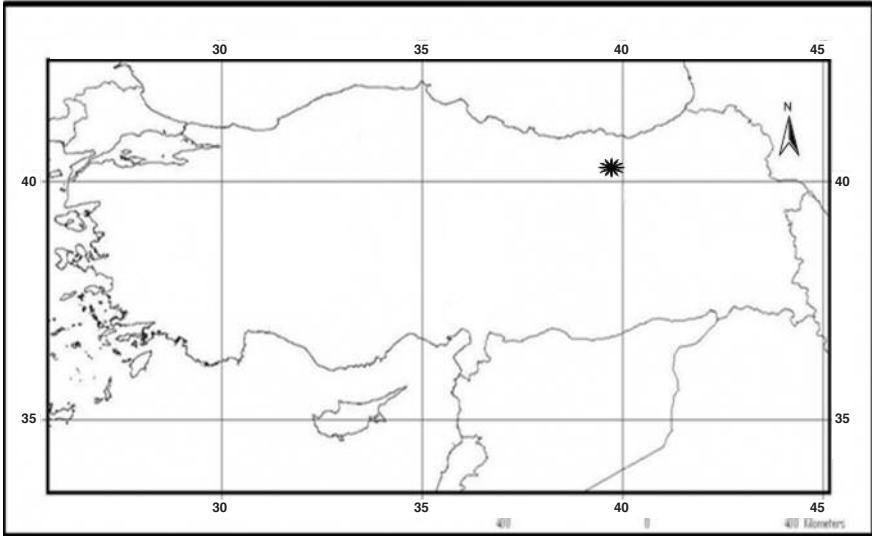


Fig. 1. Distribution of *P. kalischevskyi* in Turkey.

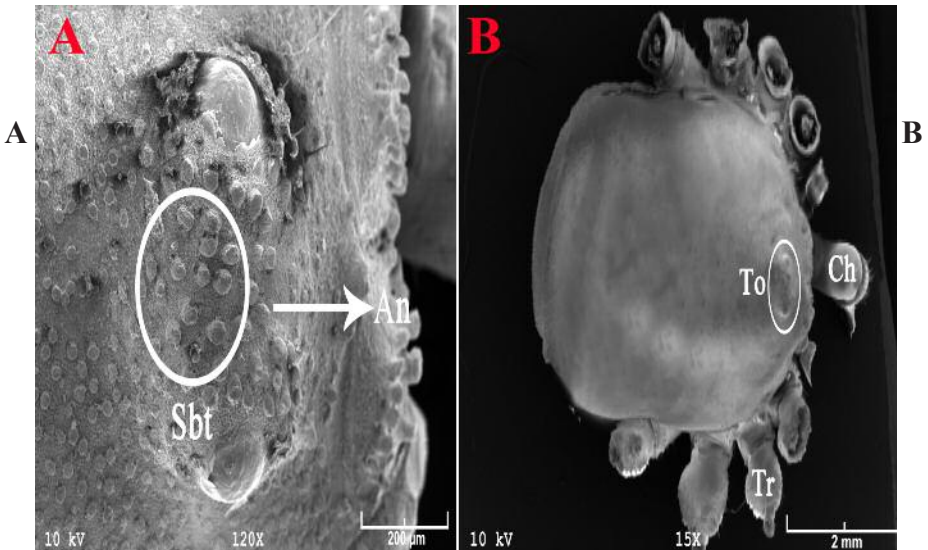


Fig. 2. Dorsal view of *P. kalischevskyi*, SEM: A. Ocularium. B. Body, dorsal view.

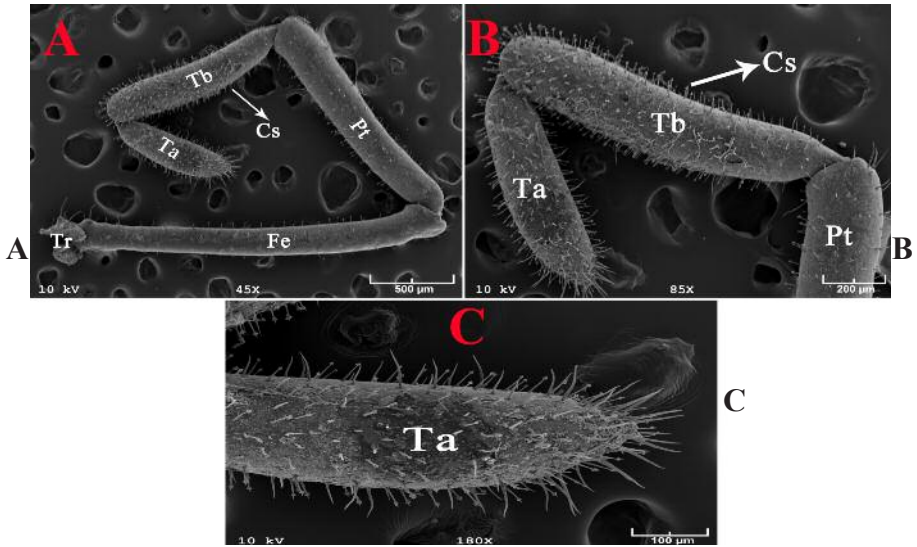


Fig. 3. Pedipalp of *P. kalischevskyi*, SEM: A. Entire pedipalp, lateral view; B. Patella, tibia and tarsus of pedipalp, lateral view; C. Tarsus of pedipalp, lateral view.

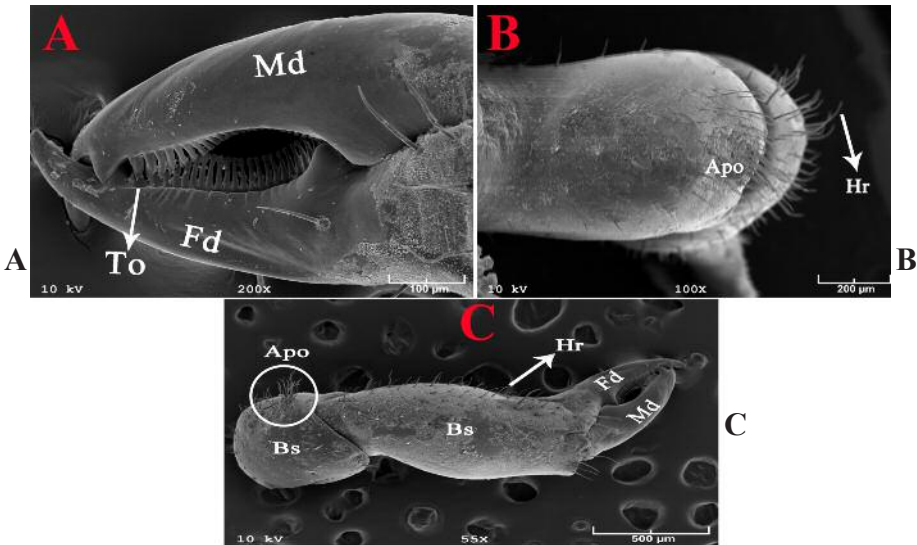


Fig. 4. Chelicera of *P. kalischevskyi*, SEM: A. Distal segment of chelicera, lateral view; B. Basal segment of chelicera, dorsal view; C. Entire chelicera, dorsal view.

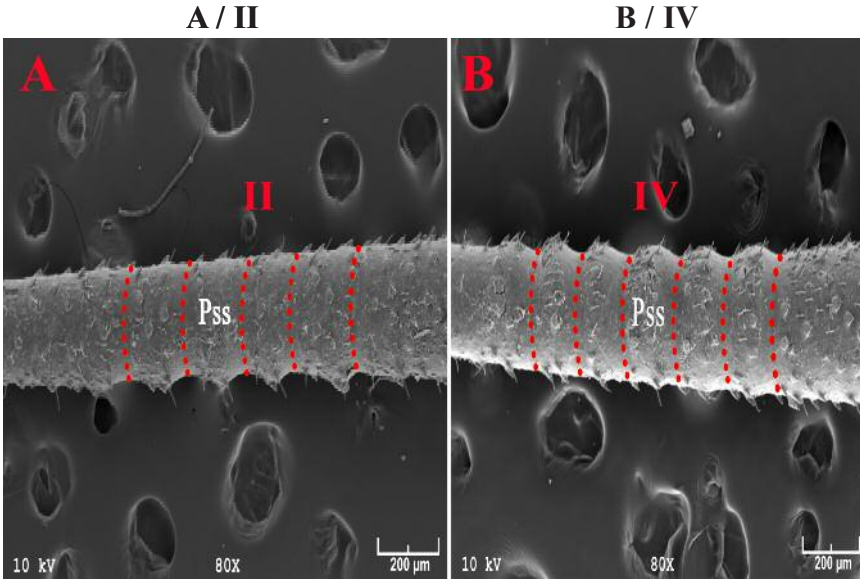


Fig. 5. Femora of legs II-IV of *P. kalischevskyi*, SEM. A. Pseudo-segments of leg II, lateral view; B. Pseudo-segments of leg IV, lateral view.

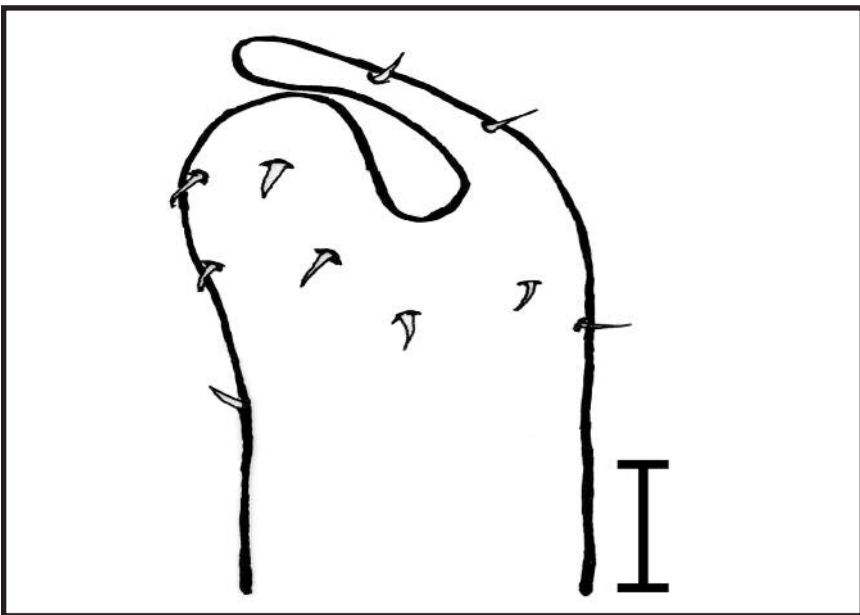


Fig. 6. Penis of *P. kalischevskyi*, lateral view. Scale lines: 0.01mm.

RESULTS

Paranemastoma kalischevskyi (Roewer, 1951) systematics

Nemastoma kalischevskyi: Roewer, 1951: 122; Lyovuschkin, 1966: 117; 1972: 63; Starega, 1978: 204; Snegovaya and Chemeris, 2004: 268-271, Fig. 24-30; Martens, 2006: 196-199, Figs. 28, 30 a-c, 32.

Nemastoma suchunium: Roewer, 1951: 1-4, Fig. 122.

Nemastoma charitonovi: Mcheidze, 1952: 545; 1959: 111; 1964: 119, Fig. 2.

Nemastoma (*Nemastoma*) *kalischevskyi*: Starega, 1966: 390-391, Figs. 3-4.

Paranemastoma (*Paranemastoma*) *suchunium*: Starega, 1978: 205.

Description

Body: Total length (in mm): 4.1, Dorsum black with a golden yellow wreath-like structure on prosoma. Ventral of prosoma black and opisthosoma light brown with free sternites having posterior rows of setose tubercles. Abdominal areas I-IV with a pair of blind and blunt tubercles and abdominal areas IV-V with small golden yellow spots.

Ocularium: Ocularium below at anterior of carapace irregularly armed with small blunt tubercles, a golden yellow stripe between the eyes.

Pedipalps: Length of palps segments (in mm): femur 2.1, patella 1.3, tibia 1.0, tarsus 0.6; strong and enlarged. Patella slightly enlarged towards distal end. Femur, patella and tibia light brown. Irregular small spots on dorsal of femur and lateral of patella. Femur to tarsus covered with sparse (on femur and patella) to more dense (on tibia and tarsus) hairs. Femur to tarsus armed with clavate setae, tarsus without claw.

Chelicerae: Basal segment length (in mm): 1.3, distal segment length 1.8; large and strong; basal segment with a low apophysis, with deep hole in proximal region. Basal segment brown with dense hairs through distal end. Distal segment enlarged through its medial part with sparse hairs. Digits pale yellow.

Legs: Leg II length (in mm): femur 3.1, patella 1.1, tibia 2.1, metatarsus 5.0, tarsus 3.2; relatively short. Femur I and femur III thicker through distal end. Coxae black with black tubercles. Trochanter black with black hairs on ventral side. Femur, patella and tibia coloration dark brown; tarsus and metatarsus are light brown. Femur, patella and tibia covered with black denticles and hairs denser on femur. Tarsus and metatarsus with much denser hairs.

There are pseudosegments on femur: Femur I (0), Femur II (5), Femur III (0), Femur IV (6).

Distribution: This species has been recorded previously in Georgia and Azerbaijan (Roewer, 1951; Mcheidze, 1952, 1959, 1964; Starega, 1966, 1978; Lyovuschkin, 1966, 1972; Snegovaya and Chemeris, 2004; Martens, 2006).

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