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A new species of *Chileotrecha* Maury, 1987 (Solifugae: Ammotrechidae) from Argentina with notes on the genus

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Abstract

The monotypic genus *Chileotrecha* Maury, 1987, includes *Chileotrecha atacamensis* Maury, 1987 from Atacama and Coquimbo regions in Chile. We describe *Chileotrecha argentinensis* n. sp., which is the first record of the genus from Argentina. Phylogenetic relationships of *Chileotrecha* with other genera of Ammotrechidae are discussed based on external morphology. We report for the first time the presence of blunt and clubbed setae in Ammotrechidae. We also report for the first time the presence of two pairs of microsetae in the posterior margin of genital plate and in the posterior margin of spiracular sternites I and II, and the presence of a single microseta on each side of postspiracular sternite I.

Key words: Solpugida, *Chileotrecha argentinensis* n. sp., *Chileotrecha atacamensis*, taxonomy, chaetotaxy

Introduction

The solpugid family Ammotrechidae Roewer, 1934, is endemic to the New World and currently comprises 24 genera and 94 species. Six of these genera have been recorded from Argentina: *Procleobis* Kraepelin, 1899; *Pseudocleobis* Pocock, 1900; *Oltacola* Roewer, 1934; *Mortola* Mello-Leitão, 1938; *Dasycleobis* Mello-Leitão, 1940 and *Nothopuga* Maury, 1976. However, the taxonomic status of genus *Mortola* is uncertain and should be revised (Maury 1998).

Chileotrecha Maury, 1987 is a monotypic genus, which includes *Chileotrecha atacamensis* Maury, 1987. It has only been collected in Chilean Coastal transitional desert of Atacama and Coquimbo regions, in northern Chile. In the description of *C. atacamensis*, Maury (1987) refers to one Chilean specimen with a different cheliceral shape that could correspond to an undescribed species. Maury (1987) also suggests that *Chileotrecha* is closely related to *Pseudocleobis* but did not assign the genus to a recognized subfamily of Ammotrechidae.

Here we describe the first species of the genus from Argentina, *Chileotrecha argentinensis* n. sp. from areas of “Monte” desert in western-central Argentina. We provide a new diagnosis for the genus and a distribution map. Additionally, we discuss the validity of ammotrechid subfamilies based on the tarsal segmentation and chaetotaxy.

Methods

Personally-collected material was found wandering around at night, and under stones. The specimens were deposited at the Museo Argentino de Ciencias Naturales “Bernardino Rivadavia”, Buenos Aires, Argentina (MACN).

Measurements, obtained using an ocular micrometer, are recorded in millimeters (mm). Descriptive terminology follows Maury (1987) for cheliceral dentition and leg spination, and Cushing & Casto (2012) for pedipalp setae.

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