



<http://dx.doi.org/10.11646/zootaxa.3716.3.7>

<http://zoobank.org/urn:lsid:zoobank.org:pub:D8B9E93B-2EC9-4DF8-B2F7-40F39AB0A65B>

Taxonomic revision of the African genus *Trechosiella* Jeannel (Coleoptera: Carabidae: Trechinae)

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Abstract

The genus *Trechosiella* Jeannel, 1960 (Carabidae: Trechinae) is revised. In addition to the known species *T. laetula* (Péringuey, 1898), *T. scotti* (Jeannel, 1937), *T. basilewskyi* Jeannel, 1960 and *T. katicola* Jeannel, 1964, *T. endroedyougai* **spec. nov.**, *T. oligophthalma* **spec. nov.** and *T. scotti swartbergensis* **subspec. nov.** are newly described. *Trechosiella laetula peringueyi* (Jeannel, 1926) is recognized as a **new synonym** of *T. laetula sensu stricto*. *Trechosiella macroptera* Casale, 1986 is demoted to become a subspecies of *T. scotti*, as *T. scotti macroptera* **status demotus**. An identification key to the known species and subspecies of *Trechosiella* and a distribution map of the southern African taxa are provided.

Key words: Plocamotrechini, Southern Africa, new species, new subspecies, new synonym, status demotus

Introduction

The genus *Trechosiella* Jeannel, 1960 was originally erected for *T. basilewskyi* Jeannel, 1960 from Tanzania. Jeannel 1964 expanded the concept of the genus *Trechosiella* by transferring the South African taxa *T. laetula* (Péringuey, 1898), *T. laetula peringueyi* (Jeannel, 1926), and *T. scotti* (Jeannel, 1937) from *Trechosia* to *Trechosiella* and also described *T. katicola* Jeannel, 1964. *Trechosiella* is placed in the tribe Plocamotrechini Jeannel, 1960 together with the related Afrotropical genera *Pachydesus* Motschulsky, 1864, *Amblystogenium* Enderlein, 1905, *Trechosia* Jeannel, 1926 and *Cothresia* Jeannel, 1964 (Casale & Laneyrie 1982, 1989).

For this contribution, the type and non-type material of *Trechosiella* from major museum collections and a few private collections were examined. Two new *Trechosiella* species and one new subspecies are described from South Africa.

Material and methods

REPOSITORY ABBREVIATIONS. BMNH: The Natural History Museum, London, UK; FMNH: Field Museum of Natural History, Chicago, USA; GGC: Gernot Geginat Collection, Magdeburg, Germany; ZMHB: Museum für Naturkunde, Berlin, Germany; MRAC: Musée Royal de l'Afrique Centrale, Tervuren, Belgium; MNHN: Muséum National d'Histoire Naturelle, Paris, France; MZLU: Museum of Zoology, Lund University, Lund, Sweden; PBC: Petr Bulirsch Collection, Prague, Czech Republic; PSC: Peter Schüle Collection, Herrenberg, Germany; SAMC: Iziko South African Museum, Cape Town, Republic of South Africa; SMNS: Staatliches Museum für Naturkunde Stuttgart, Stuttgart, Germany; TMSA: Ditsong National Museum of Natural History (previously Transvaal Museum), Pretoria, Republic of South Africa.

Material examined. The holotypes and numerous paratypes of all previously described *Trechosiella* species and subspecies were studied, as well as unidentified *Trechosiella* specimens provided by FMNH, ZMHB, MRAC, MZLU, PBC, PSC, SMNS and TMSA. A total of approximately 420 specimens were examined.

Microscopic preparations were mounted in polyvinylpyrrolidone mounting medium either onto small pieces of overhead transparency or onto ordinary microscopic slides and deposited together with the macroscopic specimens.