



<http://dx.doi.org/10.11646/zootaxa.3905.2.7>

<http://zoobank.org/urn:lsid:zoobank.org:pub:E9B24CA7-D364-4A5D-8FF6-C44C01393D1D>

A new species of *Tophoderes* Dejean from northern Madagascar with a checklist of the species (Coleoptera: Anthribidae)

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Abstract

A new species, *Tophoderes lidmilae* Trýzna & Baňar **sp. nov.**, from north Madagascar is described. Male genitalia are studied and illustrated and colour photographs of both sexes are added. A comparison with the most similar known species *T. frenatus* (Klug, 1833) is provided. A checklist of species of the Madagascan genus *Tophoderes* (Anthribidae: Anthribinae: Tophoderini) is provided.

Key words: Coleoptera, Anthribidae, Anthribinae, *Tophoderes*, list of species, taxonomy, new species, genitalia, Madagascar

Introduction

The endemic Madagascan genus *Tophoderes* Dejean, 1834 contains 13 species, all of which occur in well-preserved forests with the presence of dead wood of large diameter trees. In this article we produce a description of a new species, *Tophoderes lidmilae* Trýzna & Baňar **sp. nov.** and provide a checklist of all species with their type localities and references to primary literature. The new species was acquired during our long-term research project in cooperation with the Madagascan National Parks (MNP) and the University of Antananarivo (Department of Entomology) (e.g. Frieser 2010, Trýzna & Baňar 2012, 2013a, 2013b, 2014a, 2014b). It was discovered in Montagne d'Ambre National Park in the far north of Madagascar.

Material and methods

In this work, we measure selected body parts as follows:

length of head = distance from basal margin of eyes to most anterior part of rostrum;

length of rostrum = distance from anterior margin of eyes to most anterior part of rostrum; total body length = distance from pygidium to anterior margin of pronotum and total length of head. Antennomere I is partially hidden in the scrobe, and is hence excluded from measurement. All measurements of the head are taken in a strictly dorsal position.

The term 'dorsal ocular index' refers to the ratio of the minimum width of the vertex to the maximum width of the eye; it is easiest to calculate if measured as twice the minimum interocular distance / maximum width across eyes minus minimum interocular distance (e.g. Trýzna & Baňar 2013a, 2014a).

Genitalia were prepared from a gently moistened specimen from which the whole abdomen was separated and placed in a small tube with 12% potassium hydroxide solution (KOH) and heated to boiling point for several minutes until all soft tissues were adequately macerated. Genitalia were subsequently placed in distilled water for description and illustration. Finally, genitalia were stored in glycerol in a small vial mounted on the pin with the corresponding specimen. For the description of male genitalia we use the terminology of Holloway (1982).

Anthribidae' (Miloš Trýzna) with the kind co-operation of Maxwell V. L. Barclay. We are indebted to R. Anderson for reading the manuscript.

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