



A new species of scarab beetle, *Madecorphnus cuccodoroi* (Coleoptera: Scarabaeidae: Orphninae), from northern Madagascar

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Abstract

Madecorphnus cuccodoroi Frolov, **sp. n.** is described from specimens collected in indigenous forest in Amber Mountain National Park, northern Madagascar. The new species differs from the similar species *M. peyrierasi* Frolov and *M. perinetensis* Frolov in the shape of the parameres and internal sac armature.

Key words: scarab beetles, orphnines, new species, Madagascar

Introduction

The scarab beetle genus *Madecorphnus* Paulian, 1992, one of the two larger Madagascan-endemic orphnine genera, was recently revised and currently comprises 12 species (Frolov 2010). After the revision was accepted for publication, I was given the opportunity to examine additional series of a *Madecorphnus* species collected in northern Madagascar and housed in the Muséum d'histoire naturelle de Genève (MHNG). This species proved to be new and it is described below. Two of the seven paratypes were donated to the Zoological Institute of Russian Academy of Sciences, St.-Petersburg (ZIN). The purpose of this paper is to describe the new species and provide an updated key couplet to include the new species.

Material and methods

Photographs of the habitus and parameres were taken with a Leica MZ9.5 stereo microscope from dry specimens. Partially focused serial images were combined in Helicon Focus software (Helicon Soft Ltd.) to produce completely focused images. Photographs of the internal sac armatures were taken with the same microscope from specimens in glycerol. Distribution map was generated with ArcGIS software (ESRI Ltd.). Coordinates of the localities were taken from the specimen labels.

Systematics

Madecorphnus cuccodoroi Frolov, **sp. n.**

Figs. 1–4, 6, 9

Type material. Holotype, male: North Madagascar, Amber Mountain National Park, 3 km NE camp site, 12°33'09"S, 49°09'40"N, 1300 m. 28.II.2003, G. Cuccodoro leg. (MHNG). Paratypes, 7 specimens with the same data as the holotype except with the exact locality and date as follows: 2,5 km SE camp site, 12°31'12"S, 49°11'42"N, 1050 m. 11.III.2003, 1 male (MHNG); 1 km NW camp site, 12°31'55"S, 49°10'32"N, 1000 m. 2.III.2003, 1 male (MHNG); 3 km NE camp site, 12°32'30"S, 49°10'02"N, 1250 m. 15.III.2003, 2 males (MHNG, ZIN); 2,5 km SE camp site, 12°31'15"S, 49°11'40"N, 950 m. 03.III.2003, 1 female (MHNG); 0,5 km NE camp site, 12°31'50"S, 49°10'25"N, 1000 m. 01.III.2003, 2 females (MHNG, ZIN).