



New and little known species of the genus *Martiodrilus* Michaelsen, 1936 from French Guiana (Oligochaeta, Glossoscolecidae)

CSABA CSUZDI¹ & TOMÁŠ PAVLÍČEK²

¹Systematic Zoology Research Group of HAS and Hungarian Natural History Museum, Budapest, Hungary.

E-mail: csuzdi@nhmus.hu

²Institute of Evolution, University of Haifa, Israel

Abstract

The genus *Martiodrilus* is native to South America, with two species, *Martiodrilus tenkatei* (Horst, 1887) and *Martiodrilus duodenarius* (Michaelsen, 1918), previously recorded from French Guiana. In this paper we verified the presence of both species in French Guiana and provided a new record, *Martiodrilus (Botaria) helleri* (Michaelsen, 1918). Furthermore, two new species were described: *Martiodrilus (Botaria) dewynteri* **sp. nov.** and *Martiodrilus (Maipure) gaucheri* **sp. nov.** The subgeneric division of the genus *Martiodrilus* is briefly discussed.

Key words: *Martiodrilus (Botaria)*, earthworms, Amazonia, new species

Introduction

In French Guiana, which is characterized by tropical humid climate, 17 earthworm species were recorded (summarized in Csuzdi & Pavlíček, 2011) including two *Martiodrilus* species. Due to a lack of systematic surveys, the number of recorded species of earthworms in French Guiana is even smaller than Panama, a smaller country in which 32 species are known (Brown & Fragoso, 2007). Therefore, new records and species descriptions are expected from samplings conducted in different parts of French Guiana from 2008–2010.

Material and methods

The material was collected by combining digging and hand-sorting and looking under barks of fallen trees, in hanging-litter and debris accumulated on tree trunks. The animals were killed in 75% ethanol and preserved in 4% formaldehyde solution.

The genital setae were removed by dorsal dissection of the specimens and mounted in Euparal for light microscopic study. Microscopic photos were taken by a Nikon coolpix 990 digital camera, in case of penial setae, attached to a Nikon E660 DIC microscope.

All materials were deposited in the Oligochaeta collection of the Hungarian Natural History Museum (HNHM). Abbreviations used in the text: L. = length, D. = diameter, No. segments = number of segments.

Taxonomy

Martiodrilus Michaelsen, 1936

Martiodrilus Michaelsen, 1936: 1172., Righi 1995: 512., Zicsi & Csuzdi 1997: 82., Zicsi 2001: 113, Fragoso & Brown 2007: 53.

Thamnodrilus Beddard, 1887 (part.): Michaelsen 1900: 434., Černosvitov 1935: 18.