

New oribatid mites of the genera *Machadobelba* and *Campachipteria* (Acari: Oribatida) from Ecuador

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Abstract

Two new oribatid mite species, *Machadobelba longiciliata* **sp. nov.** (Machadobelbidae) and *Campachipteria brevisetosa* **sp. nov.** (Achipteriidae), are described from upper organic soil layer in mostly undisturbed rain forest of Podocarpus National Park, Ecuador. *Machadobelba longiciliata* **sp. nov.** is most similar to *Machadobelba descombesi* Mahunka, however it differs from the latter by the structures of sensilli and median notogastral tubercles, length of notogastral setae and presence of porose areas in anogenital region. *Campachipteria brevisetosa* **sp. nov.** is most similar to *Campachipteria sibirica* (Krivolutsky et Grishina), however it differs from the latter by the structures of sensilli and lamellar setae, and length of process of pteromorphs. The genus *Campachipteria* is recorded for the first time in Ecuador.

Key words: Ecuadori, Oribatida, Achipteriidae, Machadobelbidae, new species, Podocarpus National Park

Introduction

This paper is a part of our continuing studies on Ecuadorian oribatid mites (Ermilov *et al.* 2013a–c), and herein describes two new species belonging to the genera *Machadobelba* Balogh, 1958 (Machadobelbidae) and *Campachipteria* Aoki, 1995 (Achipteriidae).

Machadobelba is a genus proposed by Balogh (1958) with *Machadobelba symmetrica* Balogh, 1958 as the type species. Currently, it comprises 16 species, which are distributed in the Pantropical region (Subías 2004, online version 2013). Earlier only one species (*Machadobelba neotropica* Balogh, 1988) was recorded from Ecuador (Balogh 1988). The main generic characters of *Machadobelba* were presented by Balogh (1958) and also summarized by Balogh & Balogh (1990, 1992).

Campachipteria is a genus proposed by Aoki (1995) with *Campachipteria uenoi* Aoki, 1995 as the type species. Currently, it comprises 17 species, distributed in the Holarctic, Oriental and Neotropical regions (Subías 2004, online version 2013). This genus is recorded for the first time from Ecuador. The main generic characters of *Campachipteria* were presented by Aoki (1995).

Materials and methods

Specimens were mounted in lactic acid on temporary cavity slides for measurement and illustration. All body measurements are presented in micrometers. The body length was measured in lateral view,