

## New species of oribatid mites of the genera *Hermannobates* and *Rhynchoribates* (Acari: Oribatida: Hermanniellidae, Rhynchoribatidae) from Ecuador

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### Abstract

Two new species of oribatid mites, *Hermannobates dilatatus* **sp. nov.** and *Rhynchoribates longisetosus* **sp. nov.**, are described from Ecuadorian soils. *Hermannobates dilatatus* **sp. nov.** is most similar to *H. ruseki* Starý, 1998, however, it differs from the latter by the smaller body size, absence of flagelliform posterior notogastral setae, bacilliform exuvial setae  $d_1E$  and  $e_1E$ , longer adanal setae  $ad_1$  and bifurcate epimeral setae  $1a$ ,  $1c$ ,  $2a$  and  $4b$ . *Rhynchoribates longisetosus* **sp. nov.** is most similar to *R. insignis* Balogh & Mahunka, 1969, however, it differs from the latter by the rostral setae bent backwards and long, flagelliform notogastral setae.

**Key words:** oribatid mites, *Hermannobates*, *Rhynchoribates*, new species, Ecuador

### Introduction

At present, oribatid mites (Acari, Oribatida) of Ecuador are actively studied (Ermilov & Kalúz 2012a–f; Ermilov *et al.* 2013a–i). This paper is a part of this research, and herein describes two new species belonging to the genus *Hermannobates* Hammer, 1961 (Hermanniellidae) and *Rhynchoribates* Grandjean, 1929 (Rhynchoribatidae).

*Hermannobates* is a genus that was proposed by Hammer (1961) with *Hermannobates monstruosus* Hammer, 1961 as type species. Currently, it comprises nine species, which are distributed only in the Neotropical region (Subías 2004, updated 2014). The main generic characters were presented by Hammer (1961), Balogh & Balogh (1988) and also summarized by Balogh & Balogh (1992). The identification keys for many species of *Hermannobates*, including Neotropical species, have been presented earlier (Balogh & Balogh 1988, 2002; Starý 1998).

*Rhynchoribates* is a genus that was proposed by Grandjean (1929) with *Rhynchoribates rostratus* Grandjean, 1929 as type species. Currently, it comprises 24 species, which are distributed in the Pantropical region (Subías 2004, updated 2014). The main generic characters were presented by Grandjean (1929), Woas (1986) and also summarized by Balogh & Balogh (1990, 1992). The identification keys for many species of *Rhynchoribates*, including Neotropical species, have been presented earlier (Beck 1961; Balogh & Mahunka 1969; Balogh & Balogh 1990, 2002).

### Material and methods

The collection locality and habitat of the new species are given in the respective "Material examined" sections.