



## The genus *Portelmis* Sanderson, 1953 (Coleoptera: Elmidae: Elminae): first report in Brazil, description of two new Amazonian species and species key for males

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### Abstract

The genus *Portelmis* Sanderson, 1953 and the species *P. gurneyi* Spangler, 1980 are reported for the first time in Brazil. *Portelmis kinonatilis* **sp. nov.** and *P. paulicruzi* **sp. nov.** are described and illustrated based on adult specimens collected in two different municipalities in the state of Amazonas, Brazil. Diagnoses and illustrations of all *Portelmis* species, and a taxonomic key to identify males are presented.

**Key words:** aquatic insects, kinon, Neotropics, *Portelmis*, riffle beetle, taxonomy

### Introduction

The Neotropical genus *Portelmis* was established by Sanderson (1953) based on *Stenelmis nevermanni* Hinton, 1936, collected in Costa Rica. He analyzed this species and concluded that it should not be placed in the genus *Stenelmis*, based mainly in the presence of a patch of tomentum on the protibiae, that were not observed by Hinton (1936) in the original description of the species. Spangler (1980) described the second species of the genus, *Portelmis gurneyi*, collected in Ecuador (the first report of the genus for South America); he also reviewed the major characteristics differentiating *P. gurneyi* from *P. nevermanni* and added information about the type series of *P. nevermanni* not included in the original description. The *Portelmis* larva is still unknown.

In this paper, we report the genus *Portelmis* and the species *P. gurneyi* for the first time in Brazil. We also describe and illustrate two new species in this genus that were collected in small streams in *terra firme* (upland) forest, in the state of Amazonas, Brazil. Diagnosis and illustrations of all *Portelmis* species and a taxonomic key to identify their males are presented.

### Material and methods

The specimens analyzed in this study were collected in two municipalities in the state of Amazonas. In Coari municipality, specimens were collected using a D-net on the available substrates in the streams. In Presidente Figueiredo municipality, they were collected using light traps placed along the streams. Morphological terminology follows Brown (1972). Some of the specimens were dried and pinned, while the remaining specimens were preserved in 80% ethanol. Dissected genitalia were stored in microvials with glycerin and maintained with the same vial or pin as the body of the adult from which they were removed.