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A new species and new records of Gripopterygidae (Plecoptera) from the Serra dos Órgãos, Rio de Janeiro State, Brazil

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Abstract

A new species of the stonefly family Gripopterygidae, *Tupiperla barbosai* **sp. nov.** is described from the Serra dos Órgãos, Rio de Janeiro State, Brazil. Additionally, two new species records are presented from the Serra dos Órgãos, *Tupiperla reichardti* Froehlich and *Guaranyperla guapiara* Froehlich, the latter a new record for Rio de Janeiro State. A review of the species of Gripopterygidae from these mountains is presented including distributional data and taxonomic remarks.

Key words: distribution, *Guaranyperla guapiara*, Neotropical stoneflies, *Tupiperla barbosai* **sp. nov.**

Introduction

The Serra dos Órgãos is located in the central region of Rio de Janeiro State, extending from the northern municipalities of São Fidelis and Campos dos Goitacazes to Engenheiro Paulo de Frontin and Paracambi (Miller *et al.* 2006). It is the most northern range of the Serra do Mar Mountains that stretch from Santa Catarina State to Rio de Janeiro State (IBGE, 1977). This region includes important Atlantic Forest remnants with hundreds of pristine headwater streams harboring a rich diversity of aquatic insects. The Gripopterygidae is currently represented in Brazil by 39 species distributed in four genera: *Gripopteryx* (Pictet, 1841), *Guaranyperla* Froehlich, 2001, *Paragripopteryx* Enderlein 1909 and *Tupiperla* Froehlich, 1969 (Froehlich, 2010; 2012; Lecci & Froehlich, 2011). Until this study, 13 species of Gripopterygidae were recorded for Rio de Janeiro State, and eight of these species were reported from the Serra dos Órgãos. We are describing a new species and reporting two new species records from the Serra dos Órgãos, increasing the number of Gripopterygidae species known from Rio de Janeiro State to 16.

Material and methods

We examined adults and nymphs collected from six localities in the Serra dos Órgãos, including the municipalities of Teresópolis, Guapimirim and Petrópolis (Fig. 1). Adults were collected using light and Malaise traps. Nymphs were collected directly from streams and rivers. The material was preserved in ethanol and deposited in the Coleção Entomológica Professor José Alfredo Pinheiro Dutra, Departamento de Zoologia of the Universidade Federal do Rio de Janeiro (DZRJ). Images were taken using a stereoscope Leica E24 and were used as templates for trace vector graphics in an Adobe Illustrator (v. 13.0.0, Adobe Systems Inc.) document to produce illustrations. Label data include locality, geographical coordinates, altitude, date, collector and the voucher number of the collection. The number of specimens examined is given for males (♂), females (♀) and nymphs (n). An asterisk (*) refers to the new records and a cross (†) indicates that data was taken from literature.