



## New species and new records of millipedes of the genus *Rhinocricus* Karsch, 1881 (Spirobolida: Rhinocricidae) from southern Brazil

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### Abstract

Until now no species of *Rhinocricus* have been described or registered for the state of Rio Grande do Sul, Brazil. In this work we describe and illustrate five new species of *Rhinocricus* from Rio Grande do Sul: *R. itauba* sp. nov., *R. gauchus* sp. nov., *R. guaritas* sp. nov., and *R. serranus* sp. nov., described from specimens of both sexes, and *R. vacariensis* sp. nov. based on a single male. The species *R. divaricatus*, *R. padbergi* and *R. serratus* are registered for the first time for this state. A key to Rio Grande do Sul species is presented.

**Key words:** Diplopoda, Neotropical, new species, Rio Grande do Sul, taxonomy

### Introduction

The family Rhinocricidae Brölemann, 1913 have a Neotropical, North American and Southern Pacific distribution (Marek et al. 2003). Most of species of Rhinocricidae described from Brazil belong to the genus *Rhinocricus* Karsch, 1881. From the 57 species known from Brazil, 38 were described by Otto Schubart. Of the described species of *Rhinocricus*, only two have been registered for the south of Brazil, *R. striatellus* Silvestri, 1897, and *R. pugio suspensus* Brölemann, 1929, both from the state of Santa Catarina. In this work we describe and illustrate five new species of *Rhinocricus* from the state of Rio Grande do Sul, Brazil and three known species are registered for the first time for this state.

### Material and Methods

The examined material belongs to the Myriapoda collections of the Museu de Ciências Naturais da Fundação Zoobotânica do Rio Grande do Sul (MCN, curator: R. Ott) and Museu de Ciência e Tecnologia da Pontifícia Universidade Católica do Rio Grande do Sul (MCTP, curator: A. A. Lise), both in Porto Alegre, Brazil; Instituto Butantan, São Paulo (IBSP, curator: I. Knysak) and Museu de Zoologia da Universidade de São Paulo (MZUSP, curator: R. Pinto-da-Rocha), both in São Paulo, Brazil. The specimens are preserved in 80% ethanol. For the examination of somatic characters, measurements and illustrations of the gonopods we used a stereomicroscope with a measuring eyepiece and a coupled drawing attachment; for measures of corporal size millimetric paper was used. Descriptions follow Schubart (1944, 1951), Bond & Marek (2003) and González-Sponga (2005). The photographs were made with a SONY W5 camera coupled to the stereomicroscope. All measurements are in millimeters. Coloration refers to preserved material, unless noted.