



The first report of *Rumea* Desutter, 1988 (Orthoptera: Phalangopsidae: Paragryllini) from Brazil, with the description of three new Amazonian species

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Abstract

We describe three new cricket species of *Rumea* Desutter collected at lowland rainforests in Central Amazonia, Brazil: *R. zebra* **sp. nov.**, *R. manauensis* **sp. nov.** and *R. tigris* **sp. nov.** We provide detailed descriptions of each species, including measurements, drawings and photographs of external morphological features, together with a new protocol for photographing genitalia of crickets. We compare the male genitalia of the examined *Rumea* species with the ones of other Paragryllini, briefly discussing the gross morphology of this structure in the tribe. We also provide a brief discussion on the geographic distribution of the *Rumea* species.

Key words: Grylloidea, crickets, genitalia, Neotropical Region, Central Amazonia, Manaus, inundation forest, photography technique

Resumen

Describimos tres nuevas especies de grillo de *Rumea* Desutter, colectadas en bosques lluviosos de tierras bajas en la Amazonia Central Brasileña: *R. zebra* **sp. nov.**, *R. manauensis* **sp. nov.** y *R. tigris* **sp. nov.** Presentamos descripciones detalladas de cada especie, junto con las medidas de los individuos, dibujos y fotografías de las características morfológicas externas, junto con un nuevo protocolo para fotografiar genitalias de grillos. Comparamos la genitalia de los machos de las especies de *Rumea* examinadas, con la genitalia de otros Paragryllini, discutimos brevemente la morfología general de esta estructura dentro de la tribu. Presentamos una discusión acerca de la distribución geográfica de las especies de *Rumea*.

Palabras clave: Grylloidea, grillos, genitalia, Región Neotropical, Amazonia Central, Manaus, bosque inundable, técnica de fotografía

Introduction

Paragryllidae was originally proposed by Desutter (1988) as a separate family comprising Paragryllinae (Paragryllini + Benoistellini) and the monogeneric subfamily Rumeinae. Later, these suprageneric taxa were transferred to Phalangopsidae (Desutter-Grandcolas 1992), in which Paragryllini and Benoistellini were maintained with their status, and Rumeinae gained the status of tribe. However, these three tribes were not assigned to any subfamily by that time. Gorochov (1995, *apud* Gorochov 2007) joined all the genera of these tribes in a single tribe, Paragryllini, inside the subfamily Cacoplistinae. Gorochov (2007) re-evaluated his opinion, included the taxa of Neoacolini in Paragryllini and transferred the whole tribe to Phalangopsinae. It