New species of *Microcentrum* Scudder, 1862 (Orthoptera: Tettigonioidae: Phaneropteridae) from Amazon rainforest

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Abstract

A regional study is performed for the Amazonian species of the genus *Microcentrum* Scudder, 1862, its proposed *Microcentrum punctifrons* Brunner von Wattenwyl, 1891 as *nomen dubium* n. stat. and two new species are described: *Microcentrum amacayacu* Cadena-Casteñada, Sovano n. sp. and *Microcentrum xavieri* Sovano, Cadena-Casteñada n. sp., the Colombian and Brazilian Amazon, respectively. A list and a key to the Amazonian species are also provided, along with a discussion on their distribution, according to endemism areas established to Amazon rainforest.

Key words: Phaneropterinae, Microcentrini, distribution, endemism areas, katydids

Introduction

The Amazon rainforest is the largest tropical forest in the world and consists of a continuous mosaic of vegetation types that are floristically distinct (Pires 1972). This forest possesses a high diversity, where the area reduction and the species overlapping in the same niche are listed as some of the determining factors for its richness (Haffer 1982).
species is still doubtful. According to unpublished data from the second author of this paper, this genus should be paraphyletic. The high number of species known so far can be reduced with subsequent nomenclatural acts, and several species of uncertain status could be synonymized. In the same way, new species are yet to be described from the highly diverse areas such as Ecuadorian, Peruvian, Venezuelan, Nicaraguan and Salvadoran forests, where there are no records of species of Microcentrum.

This study showed that Microcentrum is widely distributed in the Amazon forest. However, we have noticed that this genus had not been recorded for localities in Rondonia, Tapajós, Xingu and Belém endemism areas. According to Araujo e Belo (2009), these areas were highly exploited in the mid-1990s, because of the development of mining and hydroelectric facility projects. With that in mind, we believe that Microcentrum may be associated with intact forests. Nevertheless, the lack of sampling in the mentioned areas does not allow us to draw a precise conclusion.

Pappavero (1994), affirms that the knowledge of the insect fauna at the regional level has great importance for behavioural studies and those comparing the actions of development on the fauna. This thought is further reinforced by Sovano & Mendes (2013) who emphasize the necessity for sampling in the Amazon, in order to determine the actual diversity of katydids in this region. Therefore, future studies in the Amazon rainforest will improve our knowledge for this biome and the fauna of katydids.

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