Redescription of the species of Anacroneuria Klapálek known from the Reserva Florestal Adolpho Ducke, Amazonas, Brazil with a neotype designation, and a key to adults males, Amazonas, Brazil. (Plecoptera, Perlidae)

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Abstract

Three known species of Anacroneuria Klapálek, 1909 from Reserva Florestal Adolpho Ducke (RFAD), Amazonas, Brazil are redescribed: A. minuta Klapálek, 1922 from the male; A. manauensis Ribeiro-Ferreira, 2001 from the Holotype male; A. marlieri Froehlich, 2001 from a Neotype male, herein designated. A fourth species is herein designated as putatively occurring in the RFAD, A. amazonica Froehlich, 2003, and is redescribed from a female paratype. A key to adults known to occur in RFAD is also presented.

Key words: Anacroneuria, Brazil, Plecoptera, Neotype, Reserva Florestal Adolpho Ducke

Introduction

The genus Anacroneuria Klapálek, 1909 occurs throughout South and Central America, Mexico, and reaching the Nearctic region (Stark 1994, 1995, 1998, 1999; Stark 2001a, 2001b; Stark and Kondratieff 2004). Recently, new species have been described from Columbia, Ecuador, Guyana, Peru, Suriname, and Venezuela (Stark 1999, 2000, 2001a, Stark and Sivec 1998, Stark et al. 1999). Currently, approximately 300 species of Anacroneuria are known from the Neotropical region (Stark 2001b). Sixty-three of these are known from Brazil, while 13 have been recorded from the Brazilian Amazon (Froehlich in press). Anacroneuria has been poorly studied along the Amazon River (Stark et al. 2001). However, in the Reserva Florestal Adolpho Ducke (RFAD) located in the Brazilian Amazon Basin, near Manaus, the Plecoptera fauna is relatively well known. Ribeiro & Rafael (2005) included a generic key to the adults of Amazonian stoneflies and treated the genus Enderleina Jewett. Additionally, (Ribeiro & Rafael 2007) treated the genus Macrogynoplax Klapálek and described one new species. Herein, we present a review of the four species of Anacroneuria known or putatively recorded from RFAD: A. minuta Klapálek, 1922; A. manauensis Ribeiro–Ferreira, 2001; A. marlieri Froehlich, 2001 and A. amazonica Froehlich, 2003.

The lectotype male of A. minuta from Santarém, Pará, Brazil is in poor condition and is redescribed from fresh material from RFAD, Amazonas and Manaus; A. manauensis is redescribed from the Holotype male; A. marlieri is redescribed from a Neotype male, designated herein; and A. amazonica is redescribed from a paratype female. The type-locality of A. amazonica probably is the lake Rio Preto da Eva, located about 80 km east of RFAD, and is discussed under this species in the taxonomic treatment.