



Article

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The true larva and the female of *Aeschnosoma marizae* Santos, 1981 (Odonata: Anisoptera: Corduliidae s.s.)

GÜNTHER FLECK

E-mail: fleckgunther@gmail.com

Abstract

The ultimate larval stadium and the adult female of *Aeschnosoma marizae* are described and illustrated for the first time. Larval comparison with other known species of the *elegans* group is given. Reared larvae of both sexes unambiguously attributed to *A. marizae* differ significantly from the previously described larvae attributed to this species, which probably do not belong to this species.

Key words: *Aeschnosoma hamadae*, *A. elegans*, Brazil, dragonfly

Introduction

The original description of *Aeschnosoma marizae* by Santos (1981) was based on four males collected in the cerrado (a savanna crossed by gallery forests) of the central Brazilian planalto in the Federal District (Goiás, Brazil). Costa and Santos (2000) described a set of larvae also from the Federal District and attributed them to *A. marizae* by supposition. The attribution of unknown young larvae to *A. marizae* was based on the fact that adults of this species occur in the same area. As mentioned by Fleck and Neiss (2012), this kind of association assumes that the whole biodiversity of an area is known and changeless. In the same biogeographic area in western Bahia State, a region also dominated by the Brazilian cerrado, close to the Goiás boundary and a few hundreds of kilometers from the Federal District, numerous specimens of *A. marizae* were found in sympatry with two new species of *Aeschnosoma* (Fleck accepted; Fleck *et al.* 2009). These larvae were unambiguously identified as *A. marizae* after successfully rearing some of them. As they differ significantly from the larvae described by Costa and Santos, the larvae described by these authors probably do not belong to *A. marizae*.

Material and methods

Wing terminology follows Bechly (1996) and mandible terminology follows Watson (1956). Abbreviations: S1–S10, abdominal segments 1 to 10; FW, forewing; HW, hindwing; Ax, antenodal crossvein; F-0, ultimate instar larva/exuvia. Examined material is deposited at INPA (Instituto Nacional de Pesquisas da Amazônia), Manaus, Brazil.

Material studied: *Aeschnosoma marizae*. Brazil, Bahia state: Rio das Fêmeas, Luis Eduardo Magalhães municipality, about 750 m a.s.l., 1 ♂ and 1 ♀, reared, F-0 1–2.X.2007, adult ecdyses 17 and 26.XI.2007, exuviae stored dry, 2 ♀, reared, F-0 23.X.2008, adult ecdyses 3 and 5.XI.2008, exuviae stored dry, 1 F-0 ♀ 1.X.2007, 2 F-0 ♀ and 4 F-0 ♂ 23–29.X.2008; Rio Correntina, vila Treviso, Correntina municipality, about 690 m a.s.l., 2 ♀ and 2 ♂ F-0 exuviae (F-0 31.X.2008, reared adults—not studied—03–21.XI.2008).