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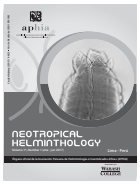

RESEARCH NOTE / NOTA CIENTÍFICA

FIRST RECORD OF *AMBLYOMMA ROTUNDATUM* KOCH 1844 (ACARI: IXODIDAE) IN *RHINELLA MARINA* LINNAEUS 1758 (ANURA: BUFONIDAE), ACRE STATE, WESTERN AMAZON

PRIMER REGISTRO DE *AMBLYOMMA ROTUNDATUM* KOCH 1844 (ACARI: IXODIDAE) EN *RHINELLA MARINA* LINNAEUS 1758 (ANURA: BUFONIDAE), ESTADO DE ACRE, AMAZONIA OCCIDENTAL

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ABSTRACT

This paper describes the first record of *Amblyomma rotundatum* Koch 1844 in *Rhinella marina* Linnaeus, 1758 a forested region of western Amazonia, Brazil.

Keywords: Brazil – *Rhinella* – Tick

RESUMEN

Este artículo describe el primer registro de *A Amblyomma rotundatum* Koch 1844 en *Rhinella marina* Linnaeus, 1758, un fragmento forestal de la Amazonia occidental, Brasil.

Palabras clave: Brasil– garrapata – *Rhinella*

INTRODUCTION

Amblyomma rotundatum (Koch 1844) is popularly known as "sapo tick", of which parasitize pecilothermic animals such as reptiles and amphibians, has a reproduction by parthenogenesis and present about 33 described species (Onofrio *et al.*, 2002). Its distribution is from the southern United States to Argentina (Barros-Batesti *et al.*, 2006), and in some Brazilian states have been reported occurrence of *A. rotundatum* in

amphibians, snakes and lizards (Antonucci *et al*., 2011; Luz & Faccini, 2013), especially in the north and Midwest of Brazil. In relation to the impacts of this ectoparasite, they are skin and blood problems, causing problems in the individual life cycle (Wohel Jr., 2007). For example, in the state of Rondonia, Brazil, Terassini *et al.* (2011) describe the tick infestation in *Rhinella marina* Linnaeus 1758, divided in two species *Amblyomma* spp. and *A. rotundatum*. However, for the western Amazon region, studies have reported the occurrence to this ectoparasite in amphibian species is still scarce, this paper first record occurrence of *A. rotundatum* in *Rhinella marina*, a forest fragment of western Amazonia, Brazil.

MATERIAL AND METHODS

Two individuals of *R. marina* were manually captured in the forest fragment of Catuaba (10°04'S/67°37'W), Senador Guiomard city, Acre state, Brazil. The area has approximately 1,500 has, with dense ombrophilous forest and open ombrophylous forest patches (Medeiros *et al.*, 2013). Ticks were found on 4th August/2016, collected with tweezers aid and placed in a bottle containing 70% alcohol ethyl. Posteriorly the ticks were transferred to the Laboratory of Herpetologia and identified with the aid of a stereoscopic microscope using specialized bibliography (Aragão & Fonseca, 1961) and confirmed by specialist area (Marcelo Labruna - Federal University of São Paulo).

RESULTS AND DISCUSSION

Three individuals female were collected from *A. rotundatum*, of which parasitize different locations in body *R. marina*, such as the rear left limb, cloaca and abdomen, moreover noted a skin hematoma on the left hind limb (Fig. 1). Lainson *et al*. (2007)

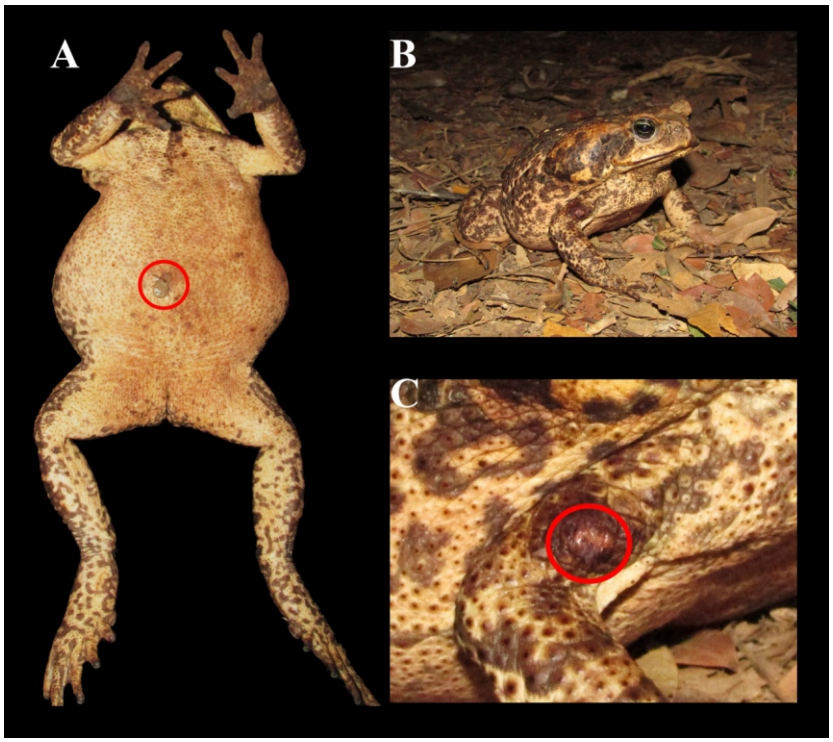

Figure 1. Captured individual of the *Rhinella marina*, the red circle indicated the parasite of the *Amblyomma rotundatum* on belly (A), individual of the *R. marina* with hematoma on the member (B) and expansion of the hematoma in picture (C). Picture by Fabiano Corrêa.

emphasizes the vector function *A. rotundatum* the transmission of *Hemolivia stellata* (Petit *et al*., 1990) one hemoparasite occurring between protozoan species of frogs, causing different damage to the host organism. *A. rotundatum* has confirmed distribution in several Brazilian states; however this is the first report of parasitism in *R. marina* for the Acre state. Future studies are necessary to better understand disease processes, parasitic interactions and impacts on amphibian communities in this important forest fragment of the western Amazon.

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