



A new species of *Proceratophrys* (Anura: Cycloramphidae) from western Brazil

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Abstract

A new species of *Proceratophrys cristiceps* group is described from western Brazil. The new species is characterized by absence of prominent palpebral appendages and postocular swellings, males measuring 44.2 ± 2.1 mm SVL (41.1–47.3 mm) and females 56.4 ± 2.8 mm SVL (52.7–59.8 mm), snout rounded in dorsal, and obtuse in lateral views, dorsal skin uniformly rugose, with no elevated warts, and tympanum defined as a depression on the skin. The new species was found in Guaporé river drainage, a highly impacted area due to the construction of water dams.

Key words: *Proceratophrys cristiceps* group, Amphibia, morphology, Cerrado, Amazon, *Proceratophrys strussmannae* sp. nov.

Introduction

The genus *Proceratophrys* Miranda-Ribeiro (1920) actually is composed by 22 species, distributed in Brazil, Argentina and Paraguay (Prado & Pombal, 2008; Amaro *et al.*, 2009). Three species groups, have been recognized based on morphological similarity: the *P. boiei* group (*sensu* Prado & Pombal, 2008), characterized by prominent palpebral appendages, which includes *P. appendiculata* (Günther), *P. boiei* (Wied-Neuwied), *P. melanopogon* (Miranda-Ribeiro), *P. laticeps* Izecksohn & Peixoto, *P. moehringi* Weygoldt & Peixoto, *P. phyllostomus* Izecksohn, Cruz & Peixoto, *P. paviotii* Cruz, Prado & Izecksohn, *P. renalis* (Miranda-Ribeiro), *P. subguttata* Izecksohn, Cruz & Peixoto, *P. rondonae* Prado & Pombal, and *P. tupinamba* Prado & Pombal (Prado & Pombal, 2008). The *P. bigibbosa* group (*sensu* Kwet & Faivovich, 2001), characterized by postocular swellings and the absence of prominent palpebral appendages, which includes *P. avelinoi* Mercadal de Barrio & Barrio, *P. bigibbosa* (Peters); *P. brauni* Kwet & Faivovich, and *P. palustris* Giaretta and Sazima. Finally, the *P. cristiceps* species group (*sensu* Giaretta *et al.*, 2000), is characterized by both the absence of postocular swellings and short palpebral appendages and contains *P. cristiceps* (Müller), *P. goyana* (Miranda-Ribeiro), *P. cururu* Eterovick & Sazima, *P. moratoi* (Jim & Caramaschi), and *P. concavitympanum* Giaretta, Bernarde & Kokubum. The species *P. schirchi* (Miranda-Ribeiro) is not currently associated to any complex, despite its relationship with *P. cristiceps* be suggested by Amaro *et al.*, 2009. During field studies on State of Mato Grosso, western Brazil, specimens of *Proceratophrys* belonging to the *cristiceps* species group were collected and are herein described as new species.

Material and methods

Specimens examined are deposited at the Coleção Zoológica de Vertebrados da Universidade Federal de Mato Grosso, Cuiabá, Brazil (UFMT), Museu de Zoologia Adão José Cardoso, Universidade Estadual de Campinas, Campinas, Brazil (ZUEC), Museu de Zoologia João Moojen, Universidade Federal de Viçosa (MZUFV), and