



A new species of *Allobates* (Anura: Aromobatidae) from Paleovárzea Forest in Amazonas, Brazil

ALBERTINA P. LIMA¹, JANALEE P CALDWELL^{2,3}, GRAZIELA BIAVATTI¹ & ANELISE MONTANARIN¹

¹Coordenação de Pesquisas em Ecologia, Instituto Nacional de Pesquisas da Amazônia, Av. André Araujo 2936, 69011-970, Manaus, Amazonas, Brazil. E-mail: lima@inpa.gov.br

²Sam Noble Oklahoma Museum of Natural History and Department of Zoology, University of Oklahoma, Norman, Oklahoma 73072, USA. E-mail: caldwell@ou.edu

³Corresponding author

Abstract

Numerous species of aromobatid frogs in the genus *Allobates* from the Amazonian region of Brazil have been described in recent years. Herein, we describe a new *Allobates* from the state of Amazonas. This species is allopatric with three other species of *Allobates*, two of which we have described previously. The new species inhabits streams in small remnants of paleovárzea forest along margins of a small river, the Paran  do Castanho. Paleov rzeas are ancient floodplains of the Amazon River and its tributaries. Paleov rzea forests are transitional between terra firme forests, which are never flooded, and v rzeas, which are seasonally flooded. Males and females of the new species are similar in size; males average 20.1 mm, females 19.8. Tadpoles have a distinct dark brown bar extending from the snout through the eye to midbody. The call of this species consists of quickly repeated groups of single notes and is unique compared to known species of *Allobates*. Courtship includes cephalic amplexus. Eggs are deposited on the forest floor in cup-shaped leaves in the litter. Unlike other species of *Allobates*, egg capsules in this species are opaque instead of clear.

Key words: *Allobates*, *Colostethus*, Dendrobatidae, Aromobatidae, Amazon forest, Paleov rzea forest

Resumo

Nos  ltimos anos, v rias esp cies de sapos aromobat deos do g nero *Allobates* da Amaz nia brasileira t m sido descritas. Aqui, n s descrevemos uma nova esp cie de *Allobates* do estado do Amazonas. Esta esp cie alop trica em rela o a outras tr s esp cies de *Allobates*, duas das quais n s descrevemos anteriormente. Esta esp cie habita margens de pequenos igarap s em remanescentes de florestas de paleov rzeas ao longo das margens do rio Paran  do Castanho. Paleov rzeas s o plan cies inund veis antigas do rio Amazonas e de seus tribut rios. Florestas de paleov rzea s o transi es entre florestas de terra firme, as quais nunca s o inundadas sazonalmente, e v rzeas, as quais s o sazonalmente inundadas. Machos e f meas desta esp cie s o similares em tamanho; m dia do tamanho dos machos 20.1 e das f meas 19.8. Os girinos t m uma barra marrom escura distinta, que se estende do focinho passando pelos olhos indo at  o meio do corpo. A vocaliza o desta esp cie consiste em repeti es aceleradas de uma nota formando grupos e que  nica em compara o a vocaliza es de outras esp cies j  descritas de *Allobates*. A corte inclui amplexo cef lico. Os ovos s o depositados em folhas dobradas na serrapilheira no ch o da floresta. Diferente de outras esp cies de *Allobates*, a c psula dos ovos nesta esp cie   opaca em vez de transparente.