New altitudinal records of the endemic species
*Cycloramphus brasiliensis* (Anura, Cycloramphidae) from the Atlantic Rainforest in the state of Rio de Janeiro, southeastern Brazil


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*With 1 figure*

The genus *Cycloramphus* Tschudi, 1838 is presently composed of 27 anuran species distributed throughout the Atlantic Forest of southeastern Brazil (Frost, 2011). Heyer (1983), in a study dealing with variation and systematic of frogs of the genus *Cycloramphus*, removed *C. brasiliensis* (Steindachner, 1864) (Cycloramphidae) from the synonymy of *C. fuliginosus* Tschudi, 1838 (Cycloramphidae); that is the only available study on the former species. *Cycloramphus brasiliensis* (Figure 1) is endemic to the relatively small portion of the Atlantic Forest of Serra dos Órgãos and Serra da Mantiqueira, in the state of Rio de Janeiro. This species has rheophilic habits, being associated with fast-moving rocky portions of clear freshwater rivers in Atlantic Forest remnants. *Cycloramphus brasiliensis* is considered near threatened; however, it is almost qualified as vulnerable due to a trend of decreasing populations (IUCN, 2010). Existing knowledge on *C. brasiliensis* distribution reports that populations of the species live at altitudes ranging from 800-1200 m elevation (Frost, 2011). Herein we provide additional information regarding the altitudinal range of distribution of this species to lower elevations, near sea level.

The individuals of *Cycloramphus brasiliensis* were sampled in September and October, 2004 and between July 2007 and March 2010 using Visual Encounter Surveys (Crump and Scott, 1994) performed by transects, in two localities of Atlantic Forest in the state of Rio de Janeiro, southeastern Brazil: the Estação Ecológica Estadual Paraíso (22° 29’ S and 42° 55’ W; elevation 150-290 m) and the Reserva Ecológica de Guapiaçu (22° 24’ S and 42° 44’ W; elevation 40-400 m). These forested areas are approximately 9 km apart, and are made up of continuous forests, having different levels of regeneration and are composed predominantly of low montane and sub-montane tropical forest vegetation. The climate in the region is wet and warm, and annual rainfall varies from 2000 to 2500 mm. Mean annual temperature is about 24 °C (Rocha et al., 2007).

We found individuals of *Cycloramphus brasiliensis* at the two localities sampled in this study. Frogs we sampled were found at minimum altitudes of 150 m elevation in lowland areas in the Atlantic Forest, which indicates that the species occurs at least about 650 m below the previously suggested altitudinal range of the species distribution (the species was considered restricted to elevations ranging from 800-1200 m above sea level - Frost, 2011). Therefore, this endemic species may occur at altitudes ranging from 150-1200 m above sea level in the Atlantic Forest biome.

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![Figure 1. The rheophilic species *Cycloramphus brasiliensis* (Photo by M. Almeida-Gomes).](image)

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NOTES AND COMMENTS
References


