A new species of *Pristimantis* (Amphibia: Anura: Strabomantidae) from the Río Abiseo National Park, Peru

EDGAR LEHR1,4, CINDY GREGORY1,2 & ALESSANDRO CATENAZZI3

1 Department of Biology, Illinois Wesleyan University, P.O. Box 2900, Bloomington, IL 61701, USA
2 Southern Illinois University School of Medicine, Springfield, IL 62794-9620, USA
3 Department of Zoology, Southern Illinois University, Carbondale, IL 62901, USA
4 Corresponding author E-mail: elehr@iwu.edu

**Abstract**

We describe a new species of *Pristimantis* from the Río Abiseo National Park in the Andes of northern Peru. Specimens were collected from 2650 to 3000 m elevation. The new species has a snout–vent length of 24.9–34.2 mm (n = 7) in adult females, and 15.3–23.5 mm (n = 29) in adult males. It differs from other species of *Pristimantis* in having the snout with a broad, slightly upwards curved, fleshy process. The most similar species, *P. phoxocephalus* has the snout with a vertical fleshy keel, but differs from the new species by being larger (female SVL up to 38.4 mm vs. 34.2 mm), by having prominent dentigerous processes of vomers (minute in the new species), by lacking an inner tarsal fold (present), by lacking heel tubercles (present), and by having the dorsum in life grey, red or brown and the groin with black and orange or yellow mottling, whereas in the new species the dorsum is rusty reddish-brown with lighter blotches or tannish-brown chevrons, and the groin tan with pale brown flecks.

**Key words:** *Pristimantis*, new species, Andes, Peru, Río Abiseo National Park

**Introduction**

The Río Abiseo National Park (Fig. 1) is located in the eastern slopes of the Andes at 7°45’S and 77°30’W in the San Martín Region of northern Peru (SERNANP 2010). The park covers an area of approximately 2,745 km² including 70% of the Abiseo river basin, tributary to the Huallaga river (SERNANP 2010). Elevations inside the park range from 350 m to 4200 m (SERNANP 2010). Expeditions to montane habitats in the Río Abiseo National Park from 1987 to 2000 led to the collection of various new anuran species (e.g., *Gastrotheca phelloderma*, Lehr & Catenazzi 2011) and a large series of *Pristimantis*. Because over a fifth of Peru’s 538 species of amphibians (Aguilar *et al.* 2010) belong to the terrestrial-breeding genus *Pristimantis*, the classification of potentially new species can be difficult. However, when a species has unique conspicuous characters that facilitate differentiation
Remarks

While snout protuberances serve well as a taxonomic character, nothing is know about their function, but a tactile function during courtship behavior or parental care could be possible. *Pristimantis deyi* seems to be abundant in the Río Abiseo National Park and we propose the IUCN threat status of this species as of least concern. However, since the specimens were collected decades ago, a re-evaluation of the population of this species would be important. While protected areas can prevent habitat destruction, it does not provide borders for diseases such as the chytrid fungus that is considered responsible for anuran population declines in Manu National Park in southern Peru (Catenazzi et al. 2011). Duellman & Lehr (2009) reported that 51% of the species of *Pristimantis* in Peru occur in protected areas. Many of the protected areas in Peru are still unexplored and likely harbour new species. Currently, there are 122 species of *Pristimantis* known from Peru (AmphibiaWeb 2013, this paper) and further species will be added in the near future.

Acknowledgements

We thank J. Cordova (MUSM, Lima) and R. Brown (KU) and A. Campbell (KU) for loan of material, and A. Brus for taking photos of preserved specimens.

References


