

Review of the taxonomy and conservation status of the Ecuadorian Glassfrog *Centrolenella puyoensis* Flores & McDiarmid (Amphibia: Anura: Centrolenidae)

DIEGO F. CISNEROS-HEREDIA¹ & ROY W. MCDIARMID²

¹College of Biological and Environmental Sciences, Universidad San Francisco de Quito, Casilla Postal 17-12-841, Quito, Ecuador; and, 2002 Research Training Program, National Museum of Natural History, Smithsonian Institution.

²US Geological Survey, Patuxent Wildlife Research Center, National Museum of Natural History, Room 378, MRC 111, Washington, DC 20013-7012 USA.

Abstract

The Glassfrog *Centrolenella puyoensis* Flores & McDiarmid is a taxon known only from the female holotype, and recently placed in the genus *Centrolene* due to its supposed close relationship with *Centrolene mariae* (Duellman & Toft). Herein we report new material of *puyoensis*, including adult male specimens previously unknown. We propose the new combination *Cochranella puyoensis* (Flores & McDiarmid) n. comb., in recognition of the state of the humeral *crista ventralis* in males of this species, which lack a humeral spine. The hypothesis of relationships between three species, including *puyoensis*, proposed as the *mariae* species-group is questioned as it was based on phenetic rather than derived characters. We present new data that extend the distributional range of *Cochranella puyoensis*, and define its range along the Foothill Evergreen forests from 400 m to 1000 m above sea level in the provinces of Napo, Orellana, and Pastaza. New data presented herein also permit a re-evaluation of the conservation status of the species, previously classified under the IUCN category of Critically Endangered. We recommend that *Cochranella puyoensis* be reclassified as “Endangered”: EN B1ab(i,ii,iii)+2ab(i,ii,iii); based on a better understanding of the presence of the species, its occupancy area, number of known localities, and habitat quality status.

Key words: *Cochranella puyoensis* n. comb., distributional range, conservation status, Ecuador

Resumen

La Rana de Cristal *Centrolenella puyoensis* Flores & McDiarmid es un taxón conocido solamente del espécimen holotipo hembra y recientemente ubicado en el género *Centrolene* debido a su supuesta relación cercana con *Centrolene mariae* (Duellman & Toft). Nosotros reportamos nuevo material de *puyoensis* incluyendo especímenes machos adultos previamente desconocidos. Proponemos la nueva combinación *Cochranella puyoensis* (Flores & McDiarmid) n. comb., en