Frequency-modulated vocalizations of eupsophus queulensis (Anura: Cycloramphidae)

Opazo, Daniel

Velsquez, Nelson

Veloso, Alberto

Penna, Mario

The advertisment calls of the recently described frog Eupsophus queulensis (Cycloramphidae) are analyzed, based on recordings of seven males. Eupsophus queulensis emits an advertisment call consisting of a harmonic-rich frequency modulated note, with dominant second and third harmonics. The temporal parameters of the calls had large intra- and interindividual variation relative to the spectral parameters. The frequency modulations follow four different patterns, as described previously for Eupsophus calcaratus and Eupsophus roseus. Individual frogs produce calls having different frequency modulation patterns, and the proportions of each pattern vary individually. A discriminant analysis positions the calls of E. queulensis closer to E. roseus than to E. calcaratus, which is congruent with the geographic and phylogenetic affinities, as well as with the relative body sizes of these taxa. © 2009 Society for the Study of Amphibians and Reptiles.