BIODIVERSITY OF AMPHIBIANS IN BILSA BIOLOGICAL STATION Influences on Amphibian Diversity and Abundance

OBJECTIVE

The objective of this study was two fold. The first objective was to document the species diversity of amphibians at Bilsa Bioogical Station. Over a period of nine months, amphibian diversity was recorded along transects in pristine and disturbed forest sites as well as along roads with varying levels of human activity. These recordings contribute to the first complete inventory of species in this area, which is critical to any future conservation efforts. The second objective was to gain insight of the influences on the habitats of amphibian and how it effects their diversity and abundance.

RESULTS

The results from this study show that the influence of disturbance on the diversity and composition of amphibian assemblages in the Mache-Chindul varies with habitat. Amphibian assemblages along rivers were the most diverse as well as the least impacted by human activity in the form of logging 12-18 years prior to this study. Diversity and species richness were much lower in secondary than in primary forest suggesting that amphibian assemblages in interior forest habitat are more vulnerable to disturbances caused by logging. Secondary rivers harboured the highest species richness followed by primary rivers.



LOCATION

Bilsa Biological Station

(79° 45′ W, 0° 22′ N, 330-730 m a.s.l) Ecuador, South America. Located in the Mache Chindul Reserve. Contains both Humid-Pre-Montane forest and Humid Tropical forest.

ECUADOR

MACHE CHINDUL RESERVE BILSA BIOLOGICA







