

Colombian frog believed extinct found alive

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The *Atelopus ebrenoides marinkellei* was last seen in the same region of Boyacá in 1995. © Carlos Rocha/UPTC

Researchers exploring a Colombian mountain range found surviving members of a species of Harlequin frog believed extinct due to a killer fungus wiping out amphibian populations in Central and South America.

The discovery of what could be the last population of the painted frog (*Atelopus ebrenoides marinkellei*) indicates the species has survived the fungus, providing hope that other species also might avoid elimination from the epidemic caused by a pathogenic fungus of unknown origin.

Professor Carlos Rocha and a team of researchers from the Pedagogical and Technological University of Boyacá - UTPC supported by Conservation International, the Darwin Initiative and the Fund for Environmental Action and Childhood made the discovery in early May in the deserts of Sarna and Toquilla in Boyacá in eastern Colombia.

The painted frog, which is found only in the deserts of Colombia's highlands, was last seen in 1995 in the area of Siscunsi, in the same region as Boyacá. After 11 years without a sighting, scientists considered the species extinct because of a lethal skin fungus, known as chytridiomycosis, and other hazards threatening the survival of a third of all amphibian species around the world.

"The scientific importance of the finding must motivate us to adopt urgent measures toward saving the last of these amphibians, both in the wild and through captive breeding programs," said Fabio Arjona, executive director of Conservation International in Colombia. "That will require a lot of support from the local and international communities."

The painted frog is one of 110 species of a diverse group of neo-tropical amphibians that live mostly in Colombia. The country's amphibian population is considered among the most diverse on Earth and key in the conservation efforts to protect amphibian species worldwide. So far, 42 of the 113 species of *Atelopus* found in the Tropical Andes Hotspot that includes parts of Colombia, Ecuador, Peru and Venezuela have experienced population declines of up to 50 percent.

Frogs provide innumerable ecosystem services by consuming insects and serving as indicators of overall environmental health of an ecosystem. The disappearance of amphibians could cause numerous consequences, including an increase in illnesses such as malaria due to the disappearance of amphibians that feed on mosquitoes carrying the disease. An extinction crisis among amphibians indicates drastic environmental changes caused by human impact such as deforestation and global warming.

Source: Conservation International

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