Rescuing and recovering a Darwin's frog stronghold

The invasion of the amphibian-killing fungus Batrachochytrium dendrobatidis (Bd) — one of the main threats to Darwin's frogs — into Tantauco Park in 2023 is causing the extinction of the largest known contemporary populations of Darwin's frogs. In response to this emergency, a task force composed of members of the Binational Conservation Strategy for Darwin's Frogs has been formed. Here, we present our plan for rescuing and recovering these populations. Financial support is urgently required to implement the emergency response phase of this plan.



One remaining abundant population was discovered deeper in the park, where Bd has probably not yet reached.

2021

2022

2020

2

2023

2024

120

80

40

0

2014

2015

2016

2017

2018

2019

Year

Adult abundance

Zapallar 🎳

What is our plan?

Our long-term goal is to restore the *R. darwinii* populations within Tantauco Park to their pre-Bd state, characterised by abundant and stable populations widely distributed across the park, as observed prior to 2023.

To achieve our long-term goal, we have outlined two stages: an emergency response phase followed by a recovery phase. The long-term goal will be fulfilled during the recovery phase. Financial support is urgently required to implement the emergency response phase.

The general objective for the emergency response phase is:

By 2028, the genetic diversity of *R. darwinii* in Tantauco Park has been adequately protected, enabling the initiation of the recovery phase.

Our specific objectives for this phase (2024-2028) are as follows:

- Safeguard at least 150 reproductive *R. darwinii* frogs from Tantauco Park through placement in wild enclosures and captive-breeding facilities.
- 2 Track the Bd invasion wave in Tantauco Park and protect at-risk populations either by *in situ* disease management or *ex situ* rescue.
- Construct a decision-analytical model to guide the selection of the optimal strategy for the recovery of *R. darwinii* populations within Tantauco Park.
- **4** Secure long-term funding for implementing the recovery phase of our plan.

A project led by

Tantauco task force – a chapter of the Binational Conservation Strategy for Darwin's frogs

