

Romeo and Juliet: the last hopes to save Bolivian aquatic frog

January 16 2019, by José Arturo Cárdenas



Julieta, an aquatic Sehuencas frog, was found in a Bolivian cloud forest and now it is hoped that she will mate with Romeo, a bachelor for the last 10 years

Almost a year after conservationists sent out a plea to help save a species of Bolivian aquatic frog by finding a mate for the last remaining



member, Romeo, his very own Juliet has been tracked down deep inside a cloud forest.

Not only did the wildlife conservation team return with a potential mate for Romeo, who had been 10 years a bachelor, but also another four members of the Sehuencas water <u>frog</u> species, boosting hopes to save the tiny amphibians from extinction.

After previous failed expeditions to the same area over the last decade, a joint expedition between Global Wildlife Conservation (GWC) and the Alcide d'Orbigny Natural History museum finally scored a success in the Bolivian wilderness.

And the <u>good news</u> came about after securing funding following a Valentine's Day appeal last year to help find Romeo his Juliet.

"It is an incredible feeling to know that thanks to everyone who believes in true love and donated for Valentine's Day last year, we have already found a mate for Romeo and can establish a conservation breeding program with more than a single pair," said Teresa Camacho, the museum's chief of herpetology and the expedition leader.

Romeo had been found in that same <u>cloud forest</u> a decade ago and it was feared that he was the last survivor in his species.

With a lifespan of 15 years, time was running out to find Romeo a mate to ensure the survival of the species, although the frog himself never gave up hope, continuing to call out for a mate during his 10 years in captivity.





After a 10-year wait, ROmeo the aquatic Schuencas frog finally has the chance to pair up with a potential mate: Juliet

'Now the real work begins'

In a statement, GWC said "the bachelor's luck is about to change drastically."

"Now the real work begins: We know how to successfully care for this species in captivity, but now we will learn about its reproduction, while also getting back into the field to better understand if any more frogs may be left and if so, how many, where they are, and more about the threats they face," added Camacho.



"With this knowledge we can develop strategies to mitigate the threats to the species' habitat, while working on a long-term plan to return Romeo's future babies to their wild home, preventing the extinction of the Sehuencas water frog."

The group of frogs has been placed in quarantine at the museum's K'ayra Center for Research and Conservation of Threatened Amphibians of Bolivia to help them acclimate to an environment that replicates the conditions they would face in the wild.

"They will also be treated for the deadly infectious disease chytridiomycosis, which is partly responsible for the steep decline of this species and other amphibians in streams where they were once found," said GWC.

Only then will Romeo meet his Juliet.





Expedition leader Teresa Camacho is hopeful that the Sehuencas aquatic frog species can be saved now that Juliet has been found as a potential mate for Romeo

The priority now is to ensure that Juliet, who measures 55 millimeters (2.2 inches), makes a good impression on her beau, who is brown with dark spots and slightly larger at 62 millimeters.

"We want to ensure the perfect conditions for his blind date," an excited Camacho told AFP.

"To reproduce natural conditions, we've been taking temperature and water quality measurements from the sampled streams to reproduce them in the breeding environments."



Reproduction is the primary goal, but Camacho says the team is in no hurry.

"We hope it will be love at first sight, but if that doesn't happen, we'll eat ice cream, watch 'The Notebook,' and try again!"

'There is always a risk'

Either way, the conservationists couldn't simply sit back and do nothing, said GWC's Central America and Tropical Andes coordinator Chris Jordan.



The Schuencas frog, which is completely aquatic, was once found in abundance at the bottom of small streams and rivers or in ponds deep inside mountain



forests

"There is always risk in bringing animals in from the wild to build an insurance population, and it isn't a step that should be taken lightly," he said.

"But at this point, it seems there are too few water frogs in the wild for them to retain a viable population over the long-term, so there's a greater risk if we don't do anything."

Given the success of last year's Valentine's Day appeal, when \$25,000 was raised to help fund expeditions into the forests, conservationists have decided to make February 14 the day of Romeo's blind date with Juliet.

The money allowed the researchers to organize eight expeditions of between one week and 10 days to the area where Juliet was found. Four of those have now been completed, while the remaining expeditions will branch out into other areas.

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A combination of climate change, habitat destruction, contamination, chytridiomycosis and the introduction of invasive trout provoked the abrupt demise of many aquatic frog species in Bolivia, Ecuador and Peru.

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