

Research activities

Based on the questions, objectives and activities proposed by the present project, the first development cycle of the project (January– September 2022) was basically focused on the survey, tabulation and organisation of secondary data collected through literature searches. In addition, some field campaigns were carried out in two sampling sites to recognise the areas, as well as a previous survey of the amphibian fauna and measure some variables to be tested in the multi-species occupancy models. In the field campaigns, 54 individuals of 14 amphibian species were recorded in the Duas Bocas Biological Reserve and 21 individuals of seven species in the Paulo César Vinha State Park. These records, as well as the information obtained from the secondary data, were tabulated into complete raw data sheets to proceed with the data analyses.



Figure 1. Night sampling in search of amphibians in the Duas Bocas Biological Reserve.

Publications

In the first cycle of the project, we wrote a manuscript on the detectability of a frog species from the streams of the Atlantic Forest (*Crossodactylus gaudichaudii*). In this article, we discuss the importance of water conditions in streams for the conservation of the species. The manuscript is submitted to the scientific journal Austral Ecology.



Figure 2. *Crossodactylus gaudichaudii*.



Figure 3. Example of an inhabited Duas Bocas Biological Reserve stream by individuals of *Crossodactylus gaudichaudii*.



Lectures and presentation of works

In August 2022, two lectures were given on Atlantic Forest amphibians. The first lecture was given at an event produced by the Institute for the Environment and Water Resources (Instituto de Meio Ambiente e Recursos Hídricos - IEMA), the institution responsible for issuing environmental licences and inspections. This lecture had the theme of amphibian conservation, addressing topics such as Atlantic Forest fragmentation and invasive alien species.

Additionally, also in August 2022, a lecture was given at the Rio de Janeiro State University (PPGEE UERJ). The lecture was entitled "Amphibians from one of the largest remnants of the Atlantic Forest in Brazil: climatic factors and habitat structure affecting the local community".

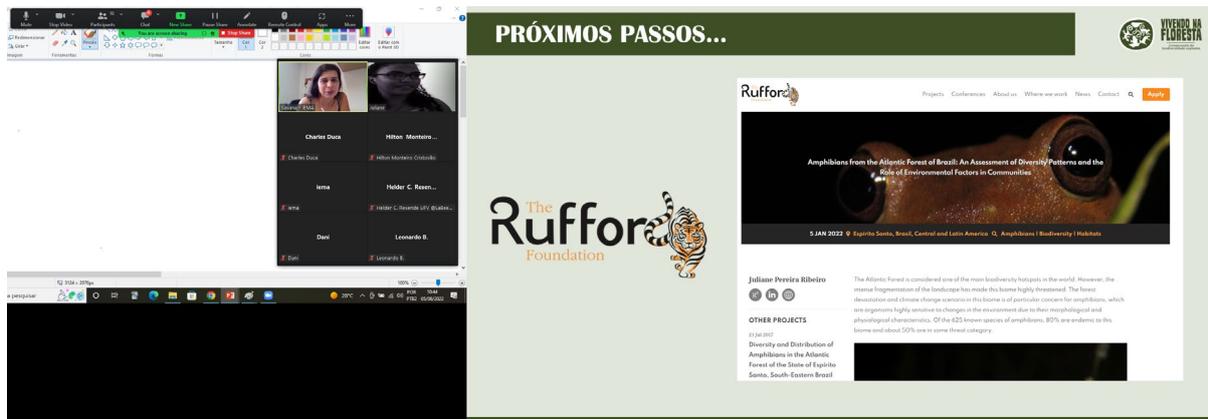


Figure 4. Presentation of the online lecture on the conservation of Atlantic Forest amphibians, highlighting the important support provided by the Rufford Foundation in the development of the projects.