

Project Update: May 2018

During these months, I initiated the fieldwork on BDFFP – Biological Dynamics Fragment Forest Project in the city of Presidente Figueireido- Brazil. My first fieldwork was in February 2018 and the data loggers installed on BDFFP areas didn't work in the expedition. Because of that, I bought five HOBO Onset data loggers; these data loggers measure air temperature in high precision and are water resistant, characteristic necessary especially in rainy seasons.

With new data loggers, I initiated again the expeditions in April 2018. Now, I finished the field trips of the rainy season.

In all expeditions I found some interesting animals in BDFFP. In February 2018 I saw two beautiful bat tents, one in a secondary forest and another in a continuous forest. The first tent (Fig 1) seems to be a roost for a couple of *Uroderma bilobatum* (tent-making bats) species. The second (Fig 2) is probably a roost of a family of *Plathyrrinus* (white-lined fruit bats) species, and I was very happy to see these all cute creatures together in the leaves!!



Figure 1. Tent bat with probably *Uroderma bilobatum* species (tent-making bats) in a secondary forest of Porto Alegre camp in BDFFP areas (Presidente Figueiredo – AM – Brazil). Giulliana Appel



Figure 2. Tent bat with probably *Plathyrrinus* species (white-lined fruit bats) in a continuous forest of Colosso camp in BDFFP areas (Presidente Figueiredo – AM – Brazil). Giulliana Appel

Well these bat species found in the tents are frugivorous, and not my object of study. But the insectivorous bats species are fantastic too and some discoveries were made with the results of the first expeditions. Here one photo of me installing the ultrasound recorder with the data logger (Fig 3).

The first view in the recordings, I saw that many aerial insectivorous bat species are foraging in these three different environments. I identified in five recording nights at least 20 aerial insectivorous bat species, included some rare species. Calls of *Lasiurus egregius* and *Peropteryx trinitatis* are observed, and actually are bat species that are classified "Data deficient" on IUCN Red List (IUCN 2018), probably my project will bring new informations about the distribution of these bat species. Now we want to wait the next chapters...



Fig 3. The installation of ultrasound recorder with data loggers that measure air temperature (up) in a continuous forest of Cabo Frio camp in BDFFP areas (Presidente Figueiredo – AM – Brazil). Giulliana Appel

The dry season is coming!!