



Operation Wallacea – Everglades, Florida

Introduction to Wildlife Monitoring, Ecology, and Data Analysis

Costs \$700 including full board in a campsite at Green Glades West and tuition costs

This 5-day course in the superlative Everglades is a mix of wildlife and habitat surveys paired with an introduction to data analysis using R, as well as presentations on various aspects of field biology and climate change from evening speakers. There are 3 main parts to this course:

- Field practicals
- Habitat surveys for analyzing and comparing vegetation community structure
- Sweep net, pitfall, flight intercept and light traps for invertebrates
- Sound and spotlight surveys for amphibians
- Mist net and point count surveys for birds
- Camera trapping and distance sampling for large mammals
- Pond and wetland surveys for alligators and otters
- Quantifying carbon sequestration to help companies with Net Carbon Zero targets

Data analysis

The data analysis parts of the course train you in skills in how to analyze large data sets using R – the data analysis open source software used at most universities. You choose one of the data sets (large mammals in South Africa, birds in a Honduras cloud forest, coral reef structure, spider monkey behavior in Mexico or reef fish abundance data from the Caribbean) and are then shown how to graph and statistically analyse these data sets. By the end of the week you will have prepared a short report written in scientific format or a presentation to answer a research question. The objective is to introduce you to R so you can learn how this software can be used for many data analysis tasks at university which will give you a head start over other students on your undergraduate course.

Wildlife, ecology, natural resource, and climate change career opportunities

Talks in the evening from biology, geography or environmental science graduates who are working in a wide range of field biology, climate change or wildlife filming careers