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## Plan Overview

*A Data Management Plan created using DMPonline*

**Title:** EXSTREAM BRAZIL: MITIGATING CLIMATE CHANGE AND AGRICULTURAL INTENSIFICATION EFFECTS IN TROPICAL STREAMS

**Creator:** Ricardo Taniwaki

**Principal Investigator:** Ricardo Taniwaki

**Data Manager:** Ricardo Taniwaki

**Affiliation:** Other

**Template:** DCC Template

**ORCID iD:** 0000-0002-2186-8998

### Project abstract:

In Brazil, freshwater ecosystems are facing multiple anthropogenic pressures, such as agricultural intensification, urbanization and intensifying climate change effects. To disentangle these effects, multiple-stressor research seeks to analyze the variety of stressors acting simultaneously to elucidate how stressor interactions affect individual organisms to whole ecosystems. The aim of this project is to conduct the first mesocosm experiments investigating the interactive effects of climate change and agricultural stressors on freshwater organisms in Brazil. The experiments will disentangle the individual and combined effects of agricultural intensification and climate change on benthic stream macroinvertebrates as a model community. Understanding how climate and agricultural stressors individually and interactively impact aquatic organisms will inform stressor mitigation prioritization and best- practice agricultural management to protect freshwater ecosystems.

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# EXSTREAM BRAZIL: MITIGATING CLIMATE CHANGE AND AGRICULTURAL INTENSIFICATION EFFECTS IN TROPICAL STREAMS

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## Data Collection

### What data will you collect or create?

We will create environmental datasets including:

- Limnological data
- Benthic macroinvertebrate community dataset

The format of the data will be basically .xlsx or .txt

### How will the data be collected or created?

We will follow the methods described in publications from Matthaei C.D. and Piggott J.J.

The name of the files will be exstreambrazil\_expXXXvXXX - where expXXX will be the number of the experiment and vXXX the version of the sheet

The quality assurance will follow the Standard Methods for the Examination of Water and Wastewater for water quality data.

## Documentation and Metadata

### What documentation and metadata will accompany the data?

The metadata will include information about:

- How the samples were collected
- Which method has been used
- How the quality of the data was verified
- The date when the samples were collected
- Who was involved in the sampling and experimental phase with their contacts

## Ethics and Legal Compliance

### How will you manage any ethical issues?

The data preservation and sharing will be conducted by storing those data in websites such as Dryad Digital Repository. All the participants are aware before participating in the experiment that these data

will be shared.

### **How will you manage copyright and Intellectual Property Rights (IPR) issues?**

We will publish the results in open access journals if funds are available.

## **Storage and Backup**

### **How will the data be stored and backed up during the research?**

The data before publication will be stored in clouds such as iCloud or Google Drive.

After publication the data will be stored in websites such as Dryad Digital Repository or journals supplementary material.

### **How will you manage access and security?**

The data will be shared through the participant researchers by allowing them to the clouds (iCloud or Google Drive)

## **Selection and Preservation**

### **Which data are of long-term value and should be retained, shared, and/or preserved?**

All the data will be retained and published in websites such as Dryad Digital Repository.

### **What is the long-term preservation plan for the dataset?**

Dryad Digital Repository or similar

## **Data Sharing**

### **How will you share the data?**

The potential users will find our dataset specially through publications.

**Are any restrictions on data sharing required?**

We will need exclusive access until the manuscript will be published

**Responsibilities and Resources****Who will be responsible for data management?**

The responsible for implementing the DMP is Ricardo Taniwaki, PI of the project.

**What resources will you require to deliver your plan?**

We will require existing staff from the Universidade Federal do ABC