

## Plan Overview

---

*A Data Management Plan created using DMPTool*

**DMP ID:** <https://doi.org/10.48321/D1C42A99f0>

**Title:** Macro-Algae Analysis

**Creator:** Kai Bloom - **ORCID:** [0009-0006-5743-4717](https://orcid.org/0009-0006-5743-4717)

**Affiliation:** University of California, Berkeley (UCB) (berkeley.edu)

**Data Manager:** Nohea Rodriguez, Mistie Tran, Kai Bloom

**Funder:** Tetiaroa Society

**Template:** Tetiaroa Field Station

### **Project abstract:**

Determine the abundance and biomass of the invasive macroalgae species, Turbinaria and Sargassum. Then, identify marine species located on random samples of each species. Turbinaria decreases fish abundance and biodiversity, competing with native algae and coral for space and resources. Determine the effect on biodiversity if Turbinaria were to be removed from an ecosystem entirely. Under the guidance of Maya Lin, the ISP class will conduct transect data collection in Baie Vaïori, located in Mo'orea. The objective is to gather data on the spatial occupancy of algae. Additionally, algae will be gathered to bring back to the lab where they will be examined for any residing organisms.

**Start date:** 03-05-2024

**End date:** 03-05-2024

**Last modified:** 03-11-2024

### **Copyright information:**

The above plan creator(s) have agreed that others may use as much of the text of this plan as they would like in their own plans, and customize it as necessary. You do not need to credit the creator(s) as the source of the language used, but using any of the plan's text does not imply that the creator(s) endorse, or have any relationship to, your project or proposal

---

## Macro-Algae Analysis

<https://www.protocols.io/view/macroalgae-analysis-dahf2b3n>

- No
- Yes
- Yes

Algae identification

Turbinaria removal across multiple sites

Falsified data

Spreadsheet of visual field analysis (number of times each category appeared along each transect), spreadsheet of critter information, and algae weight and stem length, photographs of critters and stem sizes

N/A

N/A

- No

N/A

Storage on Google Drive cloud.

Share with participants and researchers

Share findings with local fishermen, and discuss the relevance of data and conclusions with involved and affected parties.

Biodiversity associated with each macroalgae type, abundance of macroalgae at the time of research.

Zenodo

---

## Planned Research Outputs

### Dataset - "Macroalgae Abundance, Size, and Biodiversity Data"

Spreadsheets including the field survey information of all transects, the weight and length of macroalgae sample collections, and the biodiversity (species, size of individuals, etc.) associated with each type of algae collected from the field.

---

#### Planned research output details

Title	Type	Anticipated release date	Initial access level	Intended repository(ies)	Anticipated file size	License	Metadata standard(s)	May contain sensitive data?	May contain PII?
Macroalgae Abundance, Size, and Biodiversity Data	Dataset	2024-03-11	Open	None specified		Creative Commons Attribution 4.0 International	None specified	No	No