

Plan Overview

A Data Management Plan created using DMPTool

DMP ID: <https://doi.org/10.48321/D1FK8W>

Title: Dead or Alive

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Funder: Tetiaroa Society

Template: Tetiaroa Field Station

Project abstract:

Objective: Identifying and quantifying the effect of live & dead corals on species diversity.

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Dead or Alive

Take boat out to experiment site (there are two). At each site there is a plot of 10 coral heads, 5 unhealthy (bleached) and 5 healthy (unbleached). These coral heads are zip-tied to PVC plates that can be secured to 10 concrete blocks that are placed at the bottom of the lagoon. The coral heads and corresponding placement blocks are numbered 1-10 at the first site and 11-20 at the second site. Place coral head into white cooler with clove solution for 1 minute to anesthetize any remaining specimens, then shake and dunk the coral head in the large bucket (full of saltwater) to dislodge anesthetized specimens. *Immediately check clove oil solution to see if any specimens are present in the white cooler. If so, immediately transfer to the large bucket (full of saltwater) using hands and/or net. Do this quickly to avoid harming organisms. 7 Carefully visually inspect coral head to make sure all specimens are collected in the large bucket (full of saltwater). Dislodge and collect any remaining specimens. 8 Transfer all organisms from the large saltwater bucket into separate small saltwater bucket (with numbered lid corresponding to the coral head sample) using a small net and by pouring the water from the large bucket through a small metal sieve, then using hands to pick up specimens and place in small bucket. Corresponding numbered lid is then put on small bucket, which is then placed in a cooler filled with cool water for later identification. 9 Repeat steps #2-8 with remaining coral heads in ascending numerical order, keeping track of which coral heads are healthy (unbleached) and unhealthy (bleached). 10 Transport cooler back to Gump Station by boat. Upon return from boat excursion, place all specimen buckets with lids removed on circulating water table and insert aerators as needed to keep water oxygenated. 11 Identify organisms to the species level using identification books (or Google) and count number of individuals of each species. Record and compile data in spreadsheet. Each column will be a coral specimen number and each row is a different species in the spreadsheet.

Data will be shared via Zenodo

- No
- Yes
- Yes

We applied individual numbers to each coral head when stored to prevent cross contamination.

We can track longterm the effects of bleached coral on colonization.

Some difficulties include a lack of proper identification of the species. To overcome this we could have asked for a professional opinion from our professors.

Field Journal and Dead or Alive spreadsheet

<https://docs.google.com/spreadsheets/d/1rrPPXOZte0WiWuqPQdDwW8FZl-CNYVcG22mof3cJP3c/edit#gid=1286672704>

I do not claim IP/IPR rights

I will be as ethical as possible.

- No

No restrictions

Question not answered.

Question not answered.

Question not answered.

Question not answered.

Physical data was returned to the sea. long term data will be saved in a spreadsheet.
