

Plan Overview

A Data Management Plan created using DMPTool

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Title: Yellow Crazy Ants Survey on Tetiaroa

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Funder: Tetiaroa Society

Template: Tetiaroa Field Station

Project abstract:

Anoplolepis gracilipes, yellow crazy ants, are an invasive species impacting the Tetiaroa atoll in French Polynesia. For this project, we will count yellow crazy ants along transects on the Onetahi motu of Tetiaroa. We will perform a card count and lay ant baits of peanut butter and sugar water along transects to count yellow crazy ants on the card and in the baits. We also will test yellow crazy ant preference for sugar water versus peanut butter at sites where both sugar water and peanut butter baits are deployed.

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Yellow Crazy Ants Survey on Tetiaroa

Methodology

How will data be collected or produced?

Researchers will count the number of yellow crazy ants that walk across the card during the card count at each point along the transect. Researchers will count the number of yellow crazy ants in the sugar water and peanut butter vials at each point along the transect. Researchers will also note the presence or absence of other ant species at each point of the transect. All data will be recorded in the EpiCollect5 app Yellow Crazy Ant Survey form. The data recorded in the forms will be exported as a .CSV file and cleaned in Excel.

Access, Data Sharing and Reuse

Will you require an embargo period prior to making your prepublication data available? If requested, an embargo period may be granted for up to [1 year] after the end date of the Project as specified in its Data Management Plan.

- No

Do you agree to share all prepublication data contributed to the Tetiaroa Data Trust under the CC-0 license?

- Yes

Will your project include the collection of material samples? For example, archeological, geochemical (geosamples), and biological (biosamples) materials.

- Yes

Yellow crazy ants will be collected in the baited vials.

Please describe standards you will utilize to register sampling events, apply unique identifiers, implement relevant metadata standards, and track derived material samples, data, and outputs.

EpiCollect5 will record the GPS coordinates at each sample site along the transects so all data collected at a particular transect site will have coordinates recorded. When possible, researchers will take a photo of the sites through the EpiCollect5 camera feature.

What are the further intended and/or foreseeable research uses for the completed dataset(s)?

Completed data sets are intended to be used to extrapolate the yellow crazy ant population on Onetahi motu and help identify locations on Onetahi for the deployment of yellow crazy ant control measures.

State any expected difficulties in data sharing, along with causes and possible measures to overcome these difficulties.

An anticipated challenge of data sharing will be ensuring understandability of the data. To improve understanding, one measure that can be taken is to provide supplementary information clarifying the titles of spreadsheet data.

Documentation and Metadata

What documentation and metadata will accompany the data?

GPS coordinates and photos of the sites along the transect will accompany the data.

Ethics and Intellectual Property

How will you manage copyright and Intellectual Property Rights (IP/IPR) issues? Demonstrate that you have sought advice on and addressed all copyright and rights management issues that apply to the resource.

Question not answered.

How will you handle sensitive data. Make explicit mention of consent, confidentiality, anonymization and other ethical considerations, where appropriate.

Question not answered.

Are any restrictions on data sharing required – for example to safeguard research participants or to gain appropriate intellectual property protection?

- No

Describe restrictions on data sharing required due to privacy or IP protection.

Question not answered.

Short-Term Storage, Security, and Data Management

Describe the planned quality assurance and back-up procedures, including security/storage and any use of encryption.

Question not answered.

How will you manage access and security?

Specify the responsibilities for data management and curation within research teams participating in your project at all participating institutions.

UC Berkeley ISP students will be responsible for data cleaning and management tasks.

Selection and Preservation

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

All data related to the number of yellow crazy ants and their location should be retained, shared, and preserved for future use and comparisons in order to track changes in the yellow crazy ant population and measure the effectiveness of ant control programs.

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

Planned Research Outputs

Dataset - "Yellow Crazy Ants on Tetiaroa Survey"

A data set of yellow crazy ant numbers counted at sites of transects of Onetahi atoll. Information in the dataset includes the number of yellow crazy ants in each baited vial and the number of ants recorded during card counts at each site of the transects.

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?
Yellow Crazy Ants on Tetiaroa Survey	Dataset	Unspecified	Open	None specified		None specified	None specified	No	No