

Data Management plan – Edmunds St. John RAPID

i. Types

This project would generate three types of data, all of which would lend themselves to archiving and sharing. (1) high-resolution photoquadrats of benthic communities that will become integral parts of the 31 data set from this locality, (2) quantitative analyses of benthic community structure as determined from the photoquadrats, (3) measurements of community resilience as determined through analyses of specific coral colonies over time, using both the new sampling in 2017 and 2018, and legacy data extending back in time to the effects of Hurricane Hugo in 1989.

ii. Standards to be used for data

This proposal will build on the strong recent history of sharing data through the LTREB we site hosted on the MCR-LTER IM system, and BCO-DMO. Through these efforts, I have considerable experience in developing relational databases (with metadata) that can be readily utilized by others. Additionally, we have designed QA/QC procedures that flag data based on the likelihood they are incorrect and mark them for further evaluation.

iii. Policies for access to and sharing data

Following NSF policies, we will make all project-related data available on publically accessible servers within 12 months of data collection. The exceptions to this rule will be data related to graduate thesis projects, which will not be made available until 12 months following graduation.

iv. Polices and provisions for re-use, redistribution, and production of derivatives

Users of our data will only be provided access to the data after they have digitally signed a data use agreement that stipulates the requirements for acknowledgement and contact with the PI.

v. Archiving and access to data

Over the last 30 years, I have established a strong and well-developed policy of sharing data through web-accessible systems. The best developed of these has come through the Moorea Coral Reef LTER (<http://mcr.lternet.edu/data/>) which hosts all aspects of the Moorea database as well as my project support through the LTREB program (and co-funded by OCE) (<http://coralreefs.csun.edu>). In addition to these existing means for archiving data, aspects of the process-oriented analysed will be hosted by BCO-DMO (<http://bcodmo.org>).