

Carpenter- NSF RAPID

Data Management Plan

i. Types of data

This project will generate four types of data that lend themselves to archiving and sharing:

- (1) physical data (seawater flow, temperature, oxygen concentrations, salinity, PAR, and carbonate chemistry) for each of the gradient flux deployments
- (2) biological data on rates of community metabolism (NEP, R, NEC) *in situ* for each deployment
- (3) benthic photomosaics of the footprint areas for each gradient flux deployment
- (4) benthic cover data for each footprint area

ii. Standards to be used for data

This proposal builds on a strong history of sharing data through BCO-DMO and MCR-LTER. Through these efforts, we have considerable experience in developing relational databases (with metadata) that can be readily utilized by others.

iii. Policies for access to and sharing data

Following NSF policies, project-related data available will be made on publically accessible servers within 12 mo. of collection.

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

All users will have open and free access to our data within 12 mo. of collection. Although not required for access, users will be encouraged to acknowledge access to project data and make contact with the PI in the spirit of effective collaboration.

v. Archiving and access to data

Over the last 14 years, the Carpenter lab has had a strong and well-developed policy of sharing data through web-accessible systems. The best developed of these has come through the Mo'orea Coral Reef LTER (<http://mcr.lternet.edu/data/>) which hosts all aspects of the Mo'orea database. The data from the present project will be archived on the MCR site and published data sets will be assigned a DOI for ease of access and matching to published deliverables. In addition to these existing means for archiving our data, we will also exploit an in house system at CSUN (http://scholarworks.csun.edu/northridge_xmlui) and the BCO-DMO system developed with NSF supports (<http://bcodmo.org>).