
How ocean change stressors impact grazer control of kelp in a glacial-fed estuary

A Data Management Plan created using DMPTool

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Data Policy Compliance

The project investigators will comply with the data management and dissemination policies described in the *NSF Award and Administration Guide* (AAG, Chapter VI.D.4) and the *NSF Division of Ocean Sciences Sample and Data Policy*.

Pre-Cruise Planning

There are no shipboard cruises associated with this project. Fieldwork will be completed at the Kasitsna Bay Marine lab. Planning will occur via videoconferencing. Station locations and timing have already been decided.

Description of Data Types

- (1) Observational (e.g. in-situ, collected in the field). We will collect oceanographic data with sensor deployments, and biological data with in situ diver surveys of the benthos.
- (2) Experimental (e.g. generated in a lab or under controlled conditions). We will use a combination of field in situ experiments and lab experiments. Field experiments will be done through caging out of herbivores. Lab experiments will be done through altering seawater conditions and measuring organisms performance..

All data will be collected during the summers of 2019 - 2020.

Data and Metadata Formats and Standards

We will submit all data as MS Excel (.xls and/or .xlsx) files.

Data Storage and Access During the Project

All data will first be stored on project computers and shared among PI's while in the field. Data will also be shared with Kachemak Bay National Estuarine Research Reserve (KBNERR) and the NOAA Kachemak Bay researchers. Data will be backed up on external hard drives and USB drives and stored at our host institutions. Our data file sizes are expected to be less than 100 megabytes.

Mechanisms and Policies for Access, Sharing, Re-Use, and Re-Distribution

Data sets produced by the science party will be made available through the BCO-DMO data system within two-years from the date of collection. The project investigators will work with BCO-DMO data managers to make project data available online in compliance with the NSF OCE Sample and Data Policy. Data, samples, and other information collected under this project can be made publically available without restriction once submitted to the public repositories.

Plans for Archiving

BCO-DMO will also ensure that project data are submitted to the appropriate national data archive. The PIs will work with BCO-DMO to ensure data are archived appropriately and that proper and complete documentation are archived along with the data.

Roles and Responsibilities

Each PI will be responsible for sharing his/her subset of data among the project participants in a timely fashion. Project PI Konar will be responsible for all biodiversity and subtidal sampling data. Co-PI Edwards will be responsible for all seaweed and invertebrate photosynthesis and respiration data, and data on primary production rates. Co-PI Kelly will be responsible for all oceanographic sensor data and data on organism cellular stress responses and experimental lab results.