

Data Management Plan: Phytoplankton Strategies (Ward and Van Oostende)

Data Policy Compliance

We will comply with the requirements of the National Science Foundation Division of Ocean Sciences Sample and Data Policy (May 2011). The project will not generate data suitable for deposit in BCO DMO; NCBI (GenBank) is the main public database for the sequence data.

Pre-Cruise Planning

The proposed project does not include cruises. Day trips to the Jersey Shore to collect water for the investigation of sampling artifacts does not involve extensive formal planning.

The main sampling instrument is the 5- and 30-liter Niskin bottles (which Ward owns) for water samples.

Description of Data Types

We categorize the data to be collected into the following groups:

- (1) Experimental data: DNA sequences, growth rate and DNA sequence data from the culture experiments, and from the artifact test experiments.
- (2) Derived data products: publications, preliminary data reports, sequence data.

The experimental results will require 2 years or more for analysis.

Data and Metadata Formats and Standards

Sequence data will conform to NCBI requirements for access and publication.

Data Storage and Access During the Project

Data will be shared among project participants via shared DropBox folders managed by Ward and Van Oostende. DropBox also serves as a secure backup for multiple users and devices. The largest files are likely to be sequence data, and we will procure storage through PICSciE (Princeton Institute for Computational Science and Engineering).

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

Data availability: There will be no real cruise data to share or deposit at BCO-DMO.

Experimental data will be published in peer-reviewed publications as appropriate or at NCBI (GenBank) as appropriate at the time of publication. After publication, the authors will make all data available to others upon request.

Plans for Archiving

We do not plan to collect physical samples that require long term archiving. Particulate material collected for the purpose of molecular analysis will be preserved in -80oC Freezers at Princeton University; these are controlled and monitored by a central monitoring program. Some of these samples will probably be retained after the end of the project, but they do not constitute a formal permanent archive. Long term availability of the experimental and derived data will be assured by its repository at NCBI.

Roles and Responsibilities

Ward is responsible for ensuring compliance with the Data Management Plan and for the management and storage of sequence data. Van Oostende is responsible for organization and backup of the biogeochemical and culture data.