

## Data Management Plan

1. Types of Data Collected: Two types of data will be collected: 1) digital data from the CTD, optical scattering sensors, C3, and Phytoflash fluorometers, weather and wave sensors, and 2, in-situ particle imaging from LISST-Holo and float mounted photography. Data collected will be used to generate primary publications in the peer reviewed literature including relevant primary data presented in supplemental tables.

2. Standards to be Used: CTD and C3 fluorometers will be pre and post calibrated by the vendor. Calibration sheets will be uploaded to the NODC files with the final data sets. The Phyto-flash and the LISST-Holo do not have a calibration process.

3. Policy for Access:

All electronic data will be uploaded to our ERDDAP server during the glider's mission. Imagery data will not be available until after the mission is completed and the data downloaded. It will be available on the NODC server (see below) within one year and transferred to BCO\_DMO. There will be no restrictions placed on it. There are no ethical or privacy issues concerning this data set that affect open access to the general public.

All the students will be required to submit their theses electronically. We will use the worldwide Theses and Dissertations (ETDs) initiative. ETDs are available by browsing authors and departments in the ETD database and from the Networked Digital Library of Theses and Dissertations (NDLTD). The NDLTD encourages and supports the efforts of institutes of higher education and their communities to develop electronic publishing and digital libraries (including repositories), thus enabling them to share knowledge more effectively in order to unlock the potential benefits worldwide. (<http://www.ndltd.org/serviceproviders/scirus-etd-search>). Derived data presented in publications be presented as supplemental appendices if not presented directly in the papers.

4. Policies and Provisions for Re-use:

As per 3. Publications will be in the open access literature where minimal restrictions apply. Re-use will be dependent on the publication's policies, but the original data may be requested and re-plotted. As part of our broader impacts program, the Wave Glider data will be uploaded to an ERDDAP server for access as well.

5. Plans for Archiving Data:

Data will be stored on university computers in a format appropriate to the data (i.e. Excel spreadsheets, JPG files, etc) and will be backed up routinely. Data will be archived at BCO-DMO in accordance with NSF ocean science data policy. A link will be established immediately BCO-DMO for the program and will include the data management plan. Public distribution of

the data will also be available through a ERRDAP based web portal that will upload data from the Liquid Robotics FETCH data portal in near-real time.

Data files will be organized will include specifics on data collection as well as instrument details (brand/model, calibration, resolution, accuracy). Metadata on methodologies, instrumentation calibration and conditions will be stored with electronic files. Imagery will be uploaded in linked files using a common labeling standard that will uniquely identify their collection information from the Wave Glider.