

Data Management Plan

1. Types of data and samples

Our project will yield extensive data sets of hydrography and water chemistry along cross-shelf transects as well as a large number of water/filter samples. Glider, underway and hydrographic cast data include salinity, temperature, location, water depth, optical properties collected by sensors (e.g. chlorophyll absorbance and fluorescence, CDOM, particulate backscatter and beam-attenuation). Analyses of waters samples will yield data on dissolved gases (O₂, CO₂), dissolved nutrients, dissolved inorganic carbon, particulate and dissolved organic carbon, stable carbon isotopes and biomarkers. Primary productivity and DOM degradation rates will be measured at selected sites and depths. All water/filter samples will be given an ISGN number for tracking. All compositional data will be new and will be collected in spreadsheets.

2. Data and metadata standards

Metadata will include date/time of collection, location (latitude, longitude, water depth) and description (e.g., type sample). The metadata will allow users to identify the location and collection history of each sample and provide the tools to map them.

3. Policies for access and sharing

Data collected will be archived and linked to the project web site in coordination and consultation with the Oregon State University Libraries. Final data products from this project will be published in peer-reviewed scientific papers by the PIs, associated researchers, and the students involved with this project. Preliminary results will be presented at relevant national and international meetings as posters and/or talks. Data will be distributed to a variety of national databases including the Distributed Biological Observatory (DBO) Program (<http://www.arctic.noaa.gov/dbo/>) and we will work closely with the DBO Data Subcommittees to insure timely and accurate data sharing. If funded, the PIs will work with the Biological and Chemical Oceanography Data Management Office (BCO-DMO) (<http://bco-dmo.org>) staff to effectively archive water column data using this facility.

4. Policies and provisions for re-use, re-distribution

The PIs retain the right to use the data garnered during the project before making them available for wider use. However, in accordance with NSF policies for data sharing, all data will be made available upon publication or no later than two years after the project is completed. Consultation with BCO-DMO staff will insure the PIs and students in the project have sufficient time to utilize and publish them. The intended users of these data are other marine scientists interested in coastal ocean biogeochemistry and we do not foresee any restrictions in access. We do not anticipate any ethical and/or privacy issues will be involved in sharing them.

5. Plans for archiving and preservation of access

All filter samples collected as part of this project will be stored at Goni's laboratory (splits of all samples analyzed). We do not expect any extra samples will remain after analyses are completed.

All data quality controlled compositional data from the planned analyses will be archived by the PIs and summarized/published in their websites maintained by CEOAS. In consultation with Oregon State University Libraries, all data collected will also be archived and linked to project web site at OSU and distributed to a variety of national databases including, but not limited to DBO and BCO-DMO.