Data Management Plan

SAMI-alk: A new tool for ocean carbon cycle and ocean acidification studies

PI – M.D. DeGrandpre, University of Montana

This study will collect the following in situ time-series at two locations in Bermuda:

- total alkalinity
- pH
- dissolved O_2
- salinity
- temperature

Parameters calculated from these data will include:

- total dissolved inorganic carbon
- pCO_2
- bicarbonate and carbonate ions
- calcite and aragonite saturation states
- net ecosystem calcification
- net ecosystem production

Metadata will include QA/QC sample data collected during the deployments and accuracy and precision based on comparison of the in situ and QA/QC data. Another level of QA/QC data will be provided based on internal consistency comparisons using the in situ A_T, pH and pCO_2 data.

These data will made available to the broader community via the NSF Biological and Chemical Oceanography Data Management Office (BCO-DMO). Data will be submitted to BCO-DMO for long-term archiving using the data formats provided on the BCO-DMO website (//www.bco-dmo.org/) as required by the NSF-OCE program.

Other products produced from this project such as educational material (e.g. our ocean acidification exhibit, //www.cas.umt.edu/chemistry/facultyDetails.cfm?id=528), manuscripts, and presentations will be advertised via the PI's webpage, listservs (OCB, GEOTRACES) and blogs (e.g. //news-oceanacidification-icc.org/).