Data Management Plan

Summary
The PI 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. Data will be made publicly available within two years of collection through publications and online data repositories as well as the PI's website. Machine-readable annotations to already publicly available datasets will also be made available through online data repositories.

Types of Data
This project will collect data on the pH properties of seawater and the physical chemical properties of the indicator dye meta-cresol purple. It will also collate, QC, and annotate data which is already publicly available.

Data Format
The raw data for pH measurements (absorbencies, meta-data, and calculated pH values) will be stored in excel spreadsheets. Field data used for back calculations will be stored in a MATLAB readable format (.mat or similar).

Access to Data and Data Sharing Practices and Policies
After quality control and assurance, all data will be made available to the public through archiving on BCO-DMO. Annotated field data will also be made available through BCO-DMO and the PI's website. Data sets will be published in peer-reviewed journals and included in supplemental materials when appropriate.

Policies for Re-Use, Re-Distribution
Once released, the data will be open and freely available for use without copyright restrictions.

Archiving of Data
Processed, quality-controlled results will be archived at BCO-DMO within two years of acquisition. The original (raw and processed) data as well as any published papers will be fully archived with redundant off site back up of computer files at MIT. Original data contained in laboratory notebooks will be maintained by the PI's laboratory.