

DATA MANAGEMENT PLAN

Our project will generate multiple types of data including hydrographic data collected during the cruise in year two. In addition, data from numerous chromatographs, mass spectrometers, and other chemical instruments will be generated during sample processing in all years of the project.

- A. *Cruise information*: The station locations, types of instruments used, and the water and sediment sampling will be arranged prior to the cruise (as well as vehicles but note differences; see below). During the cruise, we will use paper logs to keep track of the station locations, time of deployment and recovery of each package, names of computer files generated, and descriptions of the water samples. We will follow the best management practices outlined by the Biological and Chemical Oceanography Data Management Office (BCO-DMO), which are available on line (http://www.bco-dmo.org/files/bcodmo/BCO-DMO_Guidelines.pdf). At the conclusion of the cruise, these logs will be scanned, distributed to all of the cruise participants, and kept as part of the permanent record of the cruise.
- B. *Vehicles*: All of the necessary information for data management for the requested vehicles is posted at the National Deep Submergence Laboratory's website (<http://www.whoi.edu/page.do?pid=20015>). Briefly, one full copy of the digital data package is delivered to the chief scientist at the conclusion of the cruise. Another full set, including master versions, is transferred to the WHOI Data Library, where it is archived in accordance with the archive policy. Typical data package media are magnetic hard drives and optical digital versatile disks (DVD-R). Other media can include optical CD-R and digital magnetic video-tape (DVCAM).
- C. *Raw data*: Laboratory notebooks will be scanned monthly with the electronic files stored in three different electronic media. Instruments will be backed-up monthly as well. Excel spreadsheets and other key datasets will be saved to multiple locations. WHOI is in the process of developing an electronic repository for raw mass spectral data as well, and we expect that this resource will be online prior to the inception of the proposed study.
- D. *Findings from this study* will be promptly prepared and submitted for publication. Specifically, the PIs and student researchers will present research findings at national scientific meeting presentations (e.g., American Chemical Society, Gordon Conferences, American Society for Limnology and Oceanography, Ocean Sciences, AGU, Society of Environmental Toxicology and Chemistry) and in manuscript submissions to peer-reviewed environmental journals (e.g. Environmental Science and Technology, Environmental Toxicology and Chemistry, Nature Geosciences).
- E. We will also make all sample data - including geographic coordinates, molecular and bulk organic chemicals, and stable isotope data - available through the publishing journal, either in the text or as auxiliary data tables accessible through the journal's webpage.
- F. All field samples will be housed at WHOI and stored at 4°C. The Reddy laboratory maintains a Gulf of Mexico oil-spill sample repository that contains 100s of samples and is continually updated (<http://www.whoi.edu/page.do?pid=73717>). Field samples from this grant will be added to the repository.