

## Data Management Plan for the Division of Ocean Sciences

The overall goals of the proposed Data Management Plan are: 1) to promptly publish significant findings in appropriate peer-reviewed journals and with authorship that accurately reflects the contributions of participants, 2) to make data available to other researchers at minimal expense and within a reasonable time, 3) to carefully archive any samples and materials collected and to make these available to other researchers whenever possible, 4) to share methods developments, software or other innovations that are useful to the scientific community.

### *Data processing, management, and sharing*

The proposed work will foremost generate experimental laboratory data and depth profile data for samples from the TRANSARC II cruise. The best way to convey the results of a new analytical method is in the form of a detailed method paper published in Analytical Chemistry or a similar journal. We plan to submit the method paper along with descriptive supplemental material within a year of the project ending date. This work will not generate any samples for long-term archiving. The field data collected will be used to test the modified method and describe terrigenous organic matter decomposition and transport in the Arctic Ocean. All data will be developed using standards accepted by the scientific community and as depicted in our previous publications, many of which are cited in the Project Description. We do not foresee that our data will result in any issues of privacy, security, confidentiality, intellectual property, or other rights or requirements as described in NSF documentation. If such issues arise, privileged or confidential information will be released only in a form that protects the privacy of individuals and subjects involved. Our typical laboratory practice is to attach descriptive, metadata worksheets to all spreadsheets developed in the labs. As such, specific user requests can be handled at minimal cost because our organizational efforts during data development will prevent responses from requiring significant further time investment. Publication will constitute our primary means of data sharing, though user-specific requests for more detailed data will be granted as appropriate. Many journals will publish Supplementary data along with the primary article. We have used this as a mechanism to widely disseminate data, and we will continue this practice. We anticipate publication of these results within a year of their generation. Publication authorship will be determined as data sets reveal their stories, and priority will be given to graduate students for first authorship when feasible.

### *Lignin phenol data*

Lignin phenol data will be released and shared by submission to the Biological and Chemical Oceanography Data Management Office (BCO-DMO, <http://www.bco-dmo.org/>), GEOTRACES International Data Assembly Centre (<http://www.bodc.ac.uk/geotraces/>) and PANGAEA data archive (<http://www.pangaea.de/submit/>) to promote collaboration and ensure accessibility for long-term use. Submission and formatting of data will be handling according to established rules and guidelines. Submission will be made within the project duration no later than 2 years.