

Data Management Plan

This proposal requests funds to support participation on the US GEOTRACES Pacific Meridional Transect. The participants will adhere to all NSF-OCE data policies on the dissemination and sharing of research results as detailed in this proposal supplement.

Pre-Cruise

The PIs will conduct regular videoconferences and participate in workshops for planning purposes. BCO-DMO (Cyndi Chandler) will be consulted regarding data management and the data sets will be available online from the BCO-DMO data system (<http://bco-dmo.org/data/>).

Types of Data

Throughout the course of this project, we will collect geochemical data from aerosol and precipitation samples. We expect a total of ~60 24-hour integrated aerosol samples. Precipitation samples will be collected when precipitation events occur. See Table 1 in the project description for a full list of analytes.

During Cruise

All sampling events related to this work will be recorded into the GEOTRACES digital log and compiled into a cruise report.

Post-Cruise

All sample analyses will occur after the completion of the cruise following procedures outlined in this proposal. All data and metadata will be submitted to BCO-DMO after appropriate quality control. BCO-DMO will archive the data for long-term storage at NODC. Data will be uploaded via Electronic Data Description Format, including relevant metadata components and all analyzed data fields. Metadata will include specifics on data collection (collector, position, platform, site characteristics) and laboratory analysis techniques (type of instrumentation, date and specification of last calibration, standards, blanks, and QA/QC).

We want these data collected to be widely accessible to other researchers working in the region to prevent additional expense from having to replicate the measurements. Data will be freely downloadable from these sources within two years of collection. This embargo period will allow PIs to explore the data set for original publication rights before opening it up for wider use.