

J. SPECIAL INFORMATION AND SUPPLEMENTARY DOCUMENTATION

Data Management Plan

This proposal requests funds to support participation on a cruise planned for year 1 of the award period. The participants will adhere to all NSF-OCE and GEOTRACES 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. The PIs will also communicate with the cruise management team and contribute to the science implementation plan as required. BCO-DMO (Cyndi Chandler) has been consulted regarding data management and the data sets will be available online from the BCO-DMO data system (<http://bco-dmo.org/data/>).

Table 1.

Instrumentation, samples produced, and analytical responsibility for U.S. GEOTRACES Arctic section

Instrumentation	Sample Produced	Purpose	Investigator
UAF Ice corer	Ice cores	Ice characterization; soluble, leachable and total particulate TEIs; archival; community distribution.	Aguilar-Islas Rember
Teflon pump and tubing	Filtered and unfiltered seawater samples from under the ice	Dissolved, leachable and total suspended particulate TEIs, archival, community distribution	Aguilar-Islas Rember
Plastic snow samplers	Accumulated bulk snow sample	soluble, leachable and total particulate TEIs, archival community distribution	Aguilar-Islas Rember

During Cruise

All sampling events related to this work (i.e. ice sampling, snow sampling, water immediately under the ice sampling, on board sample processing, community distribution and field experiments) will be recorded into a digital log and compiled into a cruise report. Sampling and processing protocols will modify or follow published procedures (Aguilar-Islas et al., 2008). Station data will be obtained from the vessel operator.

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 in a timely fashion to BCO-DMO. BCO-DMO will archive the data for long-term storage at NODC. Research partners receiving sea ice, snow and water from under the ice subsamples have been advised to contact BCO-DMO and submit their own data management plan. These groups will be provided with electronic data reports which will contain all metadata generated for this project (Table 2). The shared metadata will allow for easy association of the various sea ice, snow, and water under ice datasets.

Table 2. Example metadata to be provided to BCO-DMO and all collaborators receiving subsamples. Parameter definitions will be provided on a separate worksheet.

Data Set Information															
Contact Name	Ana M. Aguilar-islas amaguiarislal@alaska.edu														
Address	University of Alaska Fairbanks, SFOS Fairbanks, AK 99775														
PI_Name	Ana Aguilar-Islas, University of Alaska, Fairbanks														
Co_PI_Name	Robert Rember. University of Alaska Fairbanks, IARC														
Co_PI_Name															
Dataset Name															
Dataset Description															
Funding															
Ship															
Cruise_ID															
Cruise_Track															
Location															
Data_Centre	BCO-DMO, NODC														
Data_Publication(s)															
Sampler_Locate															
Sampler_Type	Ice corer (TM clean)														
Size_Seg_Method															
Method_Publication															
Access Restrictions															
Sample Specific Information															
Sample #	Julian Day	Start_Day	Start_Month	Start_Year	Start_Time UTC	Start_Lat	Start_Long	End_Day	End_Month	End_Year	End_Time	End_Lat	End_Long	Sampled ice/snow volume	Collection Time

Quality Flag Codes: Please use the following codes in the Quality Flag columns to indicate any data quality concerns including any values substituted for cases below the detection limit. You may use other codes, if you wish, but please define them in the spreadsheet.

BDL - below detection limit (include description of how these values are dealt with in cell C23, **DATA** sheet)
 ADL - concentration in excess of value
 C - contamination suspected
 FDV - Filters damaged, value considered valid
 FDI - Filters damaged, value considered invalid
 NS - No sample taken