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 Eastern Pacific section

Instrumentation	Sample Produced	Purpose	Investigator	
US GEOTRACES Aerosol Sampler	12 bulk aerosol samples on W41 filters	Soluble major ions, archival, and community distribution (total and SW soluble parameters)	Aguilar-Islas Buck	
US GEOTRACES Slotted Impactor Aerosol Sampler	5 size-fractionaed aerosol samples on QMA filters	Soluble major ions, soluble TEIs, community distribution	Buck	
US GEOTRACES Rainfall Samplers (2)	Event based un- /filtered samples	Soluble/Total ions &TEIs, community distribution	Buck	
Aguilar-Islas Aerosol Sampler	13 bulk aerosol samples on W41 filters	UHP soluble TEIs SW soluble TEIs, Total TEIs, Fe redox speciation and size-fractionation of SW soluble Fe	Aguilar-Islas Buck	

During Cruise

All sampling events related to this work (e.g. rain events, aerosol sampling, towed-fish sampling, GOFlo sampling, aerosol extractions, etc.) will be recorded into a digital log and compiled into a cruise report. Sampling and processing protocols will follow published procedures (Buck et al., 2006; Aguilar-Islas et al., 2010). Underway data will be contributed by the vessel operator to the UNOLS central data repository at http://www.rvdata.us/catalog/ managed by the Rolling Deck to Repository (R2R) project. These data will be archived permanently at NODC.

Post-Cruise

All sample analyses will occur after the completion of the cruise following procedures outlined in this proposal and published in Buck et al. (2006) and Aguilar-Islas et al. (2010) Milne et al., (2010). 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 aerosol and/or rainfall 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 aerosol datasets.

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

Data Set Info	ormation														
Contact Nan	me	Clifton S	. Buck, uck@gmail.o	com											
Address		Florida State University, EOAS, Tallahassee, FL 32306													
PI_Name		Ana Aguilar-Islas, University of Alaska, Fairbanks													
Co_PI_Name	е	Clifton B	úck, Florida	State Uni	versity										
Co_PI_Name	е	William Landing, Florida State University													
Dataset Nam	ne							•				•		1	
Dataset Description Funding														dicate any data u mav use other	
_							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.								
Ship							_	, ,			•				
Cruise_ID							_								
Cruise_Trac	CK							v detection lin	nit (include	e description	of how these	values are o	dealt with in ce	II C23 , DATA	
Location							sheet)								
Data_Centre BCO-DMO, NODC				ADL - concentration in excess of value C - contamination suspected											
Data_Public	. ,									: d = = d = l! d					
Sampler_Lo								s damaged, v damaged, v							
Sampler_Ty							NS - No san		alue collsi	uereu irivailu					
Sampler_ave Flow	<u> </u>						110 - 110 3411	ipic taken							
Substrate_T															
Substrate_P															
Size_Seg_M															
Method_Pub	blication														
Access Restriction s															
Sample Spe	cific Infor	mation													
	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 Air/Rain_Vol.	Collection Time