**Supplement: Data Management Plan**

We will work with the pump management group (PIs Buesseler, Charette, Moore) and the Scripps on-board Ocean Data Facility data manager group to submit our pump metadata and Seacat CTD data during the cruise so that it will be available for shipboard participants.

The proposed research will generate particle samples from approximately 370 unique locations (13 regular stations with 16 depths and 2 dipped blanks, plus 5 super stations with 24 depths and 3 dipped blanks). At each location, we will collect two >51μm filters, two QMA filters, and two Supor filters, for a total of around 2220 filters. With the North Atlantic Geotraces cruise as a guide, we expect demand for particle subsamples to be high, and to fully distribute all collected particulate material to funded PIs within 2 months of returning from the cruise. All filters are photographed at constant lighting before and after subsampling to document the distribution process. In the unlikely event that there is leftover material, the filters will be kept dry in Phoebe Lam's laboratory at WHOI. All metadata concerning particle sample collection is shared with funded PIs at the time of sample distribution, and will be submitted to the Biological and Chemical Oceanography Data Management Office (BCO-DMO) at WHOI.

We will work with staff at the Biological and Chemical Oceanography Data Management Office (BCO-DMO) at WHOI to submit data from particle analyses as they are generated within two years after the data are collected, in compliance with the NSF sample and data policy.

Data submitted to BCO-DMO are available online (http://bco-dmo.org/data/). We have worked with BCO-DMO before to submit data from a previous cruise (http://osprey.bcodmo.org/project.cfm?flag=view&id=110&sortby=project).