

Data Management Plan

One cruise is planned in either the latter half of 2014 or in 2015. Underway data (shipcollected) will be contributed to the UNOLS data repository. At each station, sample depths, positions and conditions will be recorded manually in a cruise notebook and digitally with an onboard computer. Ancillary information recorded for each sampling event will include time, position, depth, salinity, pH, temperature, samples obtained and how obtained, and onboard measurements acquired. Any onboard measurements acquired will be cross-listed with the data files recorded for that sampling event. Onboard measurements will include absorption spectra before and after borohydride reduction, and its pH dependence. Primary data collected in the laboratory will include complete absorption spectra, emission spectra, the effects of borohydride reduction and pH on these spectra, dissolved organic carbon analyses, photochemical properties, and ultra-high resolution mass spectra. Except for the ultra-high resolution mass spectral data, this information will be recorded and stored on Excel spreadsheets for each station occupied. The ultra-high resolution mass spectra data would be stored digitally, both as the raw spectral output and after processing. All of these data would be stored and backed-up digitally on computers at the University of Maryland. Within two years after the complete acquisition of these data, this information would be made available to the community through submission to the Biological and Chemical Oceanography Data Management Office, and if possible, directly through a community-accessible website.

Results will be published promptly in peer-reviewed journals, with all data supporting these publications submitted as tables or detailed graphs within the supplemental online materials (unless already incorporated into the main text of manuscripts).