

Data Management Plan

Moffett's group will comply with NSF data policy which requires the collection and submission of all data resulting from our analyses. Moffett will also report the appropriate meta-data. Data will be submitted to the Biological and Chemical Oceanography Data Management Office (<http://www.bco-dmo.org>) at WHOI. In keeping with NSF policy, all data from this project will be submitted within 2 years of completion of the 2018 cruise. Moffett will personally be responsible for data management activities, but will also assign reporting duties to the students as a mentoring activity. The USC group will coordinate with the Cruise Management Team (G. Cutter, ODU; P.J. Lam, UCSC and K. Casciotti, Stanford). Such coordination is essential to avoid systematic errors that creep into these data bases for derived terms like depth and potential density. Moffett has extensive experience with both of these data repositories from his experience as Chief Scientist on the GP16 cruise. In addition to Fe(II), he was responsible for signing off on the hydrographic and nutrient parameters and pigments. Nevertheless, he recognizes that meta data reporting for this project is more involved than for many GEOTRACES parameters that are simple concentrations or parameters routinely stored by BCO-DMO. For this project, that includes not only sampling, storage and analytical protocols, but also the numerical approaches used to generate the final data sets. Moreover, meta-data also needs to include explicit information about which parameters are operationally defined and how upper (or lower) limits are estimated for some parameters.

Beyond BCO-DMO there is the next iteration of the GEOTRACES Intermediate Data Product. The IDP requires an additional level of scrutiny through the Standards and Intercalibration Committee. Moffett's Cu speciation data for NA03 have been approved by this committee and are included in IDP 2017. So he has considerable experience in assembling this type of data from his lab and other labs, and defending the results in a peer-reviewed process.