

Data Management

Data to be produced by this project include calibration of HPLC-ICP-MS with standards, quantitative HPLC-ICP-MS data (HPLC-ICP-MS traces for Fe and Co, tables of retention times and calibrated peak area), ESI-MS data (mass spectra, table of exact masses and abundance), and capNMR (1D and 2D ^1H NMR spectra, frequency & area of signals, coupling constants) of samples from the GEOTRACES and CCS field programs. For laboratory cultures of *Prochlorococcus*, data will include HPLC-ICP-MS, ESI-MS and capNMR data (as above), as well as relevant culture data (media and growth conditions, cell numbers). Data, sampling protocols, and experimental descriptions from the GEOTRACES and CCS field programs will be deposited with GEOTRACES and the BCO-DMO database (bcodmo.org) in agreement with established policies and practices of GEOTRACES and the WHOI BCO-DMO office. The BCO-DMO office will archive the data in an appropriate national archive facility. Data and sampling protocols from *Prochlorococcus* culture experiments will be archived and made publically available through the *Prochlorococcus* portal (<http://proportal.mit.edu>) maintained by MIT. Data will also be disseminated through peer review publications and presentations at national and international meetings. We keep electronic laboratory notebooks that are stored daily in a server managed and backed up by the WHOI computing and information services center. We make our data available to the public on the Repeta Lab website (http://www.whoi.edu/sites/Repeta_Lab) within one year of the completion of the project, and through peer-reviewed publications.