

## DATA MANAGEMENT PLAN

The scientific data collected for this Research Project will derive from oceanographic cruises and laboratory measurements of marine microorganisms. The resulting datasets will be archived in the publicly available Biological and Chemical Oceanography Data Management Office (BCO-DMO) data organization website within 1 year upon completion of the cruise or the laboratory experiments. With respect to field data, it is anticipated that the majority of measurements are conducted on HOT cruises which have their own data archive systems for underway and biogeochemical data. The specific oceanographic measurements unique to this project proposal are estimates of gross nitrogen fixation as determined by hydrogen production under a headspace of argon. The responsibility of all aspects of this datasets from sampling, analysis, and quality control rests with the PI, Sam Wilson. Building on the recommendations for the reporting protocols of other oceanographic measurements, the dataset documentation will include:

- Names of the Principal Investigators and sample analysts;
- Reference to the analytical methods;
- Calibration and any corrections applied for blanks
- Rate measurements reported in units of nanomole per liter of seawater for the gross nitrogen fixation as derived from the argon assay;
- Rate measurements reported in units of nanomole per liter of seawater for  $^{15}\text{N}_2$  assimilation;
- The accuracy and precision of the measurements will also be included