

## DATA MANAGEMENT PLAN

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**Data Policy Compliance:** NSF requires investigators to provide data within two years of collection. If the project is funded, the field data from the program (size- and taxon-specific phytoplankton growth rates, size- and taxon-specific grazing rates of protists and salps, compound-specific isotopic analysis, “Labyrinth of Doom” sediment trap results) will be submitted to the Biological & Chemical Oceanography Data Management Office repository (<http://www.bco-dmo.org/>). Dr. Stukel will oversee field data collection and its archiving in BCO-DMO. He has previously provided data to BCO-DMO as part of his work on the FluZiE cruise, where he was responsible for nitrate uptake, sediment trap, and  $^{234}\text{Th}$  datasets. BCO-DMO ensures that a permanent archive of the data is maintained.

**During the Cruise** Geo- and temporal-referenced event logs will be kept both in paper and digital forms on the New Zealand salp cruise. Sampling and analytical protocols will be logged in the cruise report.

**Post-Cruise** Metadata for each sampling activity will be collated into a single file, updated following each cruise, and supplied to BCO-DMO. All appropriate field data will be supplied to BCO-DMO within six months of quality control (typically within one year of cruise, but potentially longer for compound specific isotope analyses that require extensive post-cruise processing). This data will be merged with appropriate metadata so that it is in a usable format, both by PI’s and collaborators. When annual reports are submitted, the data specific to this project (including new data and data updates) will be provided to DataZoo.

**Management of Model Results** Model code will be archived on SourceForge which is a web-based source code repository (see <http://sourceforge.net>), using version control software as the model is developed. This acts as a centralized location for software developers to control and manage open source software development and it allows worldwide access to all models that are under development in the repository. Previous modeling studies by these investigators are currently archived and publicly available via Source Forge. Model results (mean and 95% confidence intervals of all ecosystem rates) will be made available on PI Stukel’s website at Florida State University and submitted to BCO-DMO.