Data Management Plan

This project includes both field and laboratory components, and will generate a variety of datasets from DNA sequence to plankton abundance and oceanographic data. Data produced from this project are summarized below. In compliance with the NSF OCE Data and Sample Policy (http://www.nsf.gov/pubs/2011/nsf11060/nsf11060.pdf), these data will be submitted within 2 years of collection to the Biological and Chemical Oceanography Data Management Office (BCO-DMO; http://bco-dmo.org/contact/) at WHOI and/or to the National Center for Biotechnology Information (DNA sequence data; http://www.ncbi.nlm.nih.gov/). All oceanographic data generated by the AMT programme is made publicly available within 1 year of collection though the British Oceanographic Data Centre (BODC, United Kingdom, see http://www.bodc.ac.uk/projects/uk/amt/data_policy/ for a detailed description of the AMT data management policy).

Data Products from this project:

Variable & Description

- 1. Molecular Data:
 - a. Shotgun genomic DNA sequence for 3 copepod species (1/16th of a 454 Roche picotiterplate).
 - b. Species-specific microsatellite markers for 3 species (ca. 10 markers per species), and optimized amplification conditions for routine genotyping using these marker sets.
- 2. Plankton Abundance Data:
 - a. Adult abundance data and presence/absence data for copepodites of 3 target copepod species.
 - b. Flow cytometry, fluorometry and microscopy-based data for the abundance of pico-, nano-, and microplankton, as well as ciliate microzooplankton along the AMT transect. These data may need to be submitted to the BODC.
- 3. Copepod egg production and physiological data:
 - a. Egg production rate (EPR) data for 3 species, collected at >20 stations along the AMT transect.
 - b. Physiological data, including prosome length, dry weight, condition index, and water, carbon, nitrogen and ash content, for 3 copepod species.
- 4. Oceanographic and Environmental Data:
 - a. *In situ* data on temperature, conductivity, pressure, fluoresence, photosynthetically active radiation (PAR), transmisometry (particle abundance) with depth (0 500m) from 2X daily CTD casts, as well as hull-mounted flow-through sensors. These data are handled by the AMT staff, and will be submitted to the BODC.