C10. Data Management

The lead PI, W. Maslowski, will be the responsible data manager and point of contact. Model ensembles from key runs listed in the project work plan will be made available to the community through the Arctic System Science Data Coordination Center (ASSDCC) and, pending readiness of NSF’s big data initiative, via “EarthCube” (http://www.earthcube.org). Certain existing data will be used in the proposed project: ARCSS-PP (NODC accessions id 63065); ArcNut (NODC accessions id 72133); NASA SeaWIFS and MODIS remote sensing data; ICESCAPE and MALINA data (NASA SeaBASS). A project web page will be created and updated throughout the lifetime of the project to provide community access to model code, output and project results. A climatological atlas of selected model variables (e.g. SST, SSH, SAT, SLP, sea ice concentration, thickness) will be developed and made available on the project website, similar to how it was done for the NSF-funded Study of the Northern Alaska Coastal System (SNCAS) project at NPS (an electronic copy of the Climatological Model Atlas for the SNACS region is available at <http://www.oc.nps.edu/NAME/name.html> under SNACS project link). A public release of the final RASM-mBGC model code will be made available via the NPS Subversion repository server at https://svn.nps.edu together with a RASM-mBGC User Guide, and also via EarthCube. The RASM repository includes both model code and analysis tools, which will aid quick uptake by parties who wish to use this work for future studies. Changes and additions to CESM code resulting from this project will be offered to NCAR for future CESM releases in concert with presenting research at CESM Polar Working Group Forums on the results from this project.