

Data Management Plan

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I. Types of data generated

This project will generate numerical model solutions using a range of models that include: high resolution (1.5 km) simulations from regional models for the Ross and Amundsen Seas and west Antarctic Peninsula and lower resolution simulations (5 km) from a circum-Antarctic model. The results from the simulations and associated analyses will be stored in NetCDF format. We expect the total amount of numerical data produced to be ~125 TB.

II. Data and metadata standards

All model output will be stored at BCO-DMO as has been done previously. All data formatting will be in compliance with BCO-DMO recommendations.

III. Policies for accessing/sharing and provisions for data protection

The main avenue for sharing our data and results will be through publication in scientific journals and presentations at conferences, but we will make our models and simulation results data available to other researchers through BCO-DMO. Data will be freely downloadable within two years of collection. This initial embargo period will allow PIs and graduate students to explore the model results for original publication before opening it up for wider use.

IV. Policies and provisions for Re-Use and Re-distribution.

Once our final, quality-checked modeling results are uploaded to BCO-DMO, no restrictions will be placed on access. For the modeling data once our final, quality-checked data are uploaded to our own website, there will be no permission restrictions on re-use.

V. Archiving plans and preservation of access

We will archive for 5 years all the numerical simulation data produced within this project and used in publications in NetCDF format. After the first 5 years only the software configurations used to generate the numerical integrations (to insure their reproducibility), video and figures will be maintained for at least another 5 years.