**The OSU AMPS Database and Antarctic NWP**

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The primary purpose of the Antarctic Mesoscale Prediction System (AMPS) database at The Ohio State University (OSU) is to provide an easily accessible subset of AMPS output that focuses on the most frequently used variables and that approximates observed conditions. Data are provided in NetCDF format at 3-hour intervals and as monthly means. As of May 2015, AMPS output for all forecast grids has been processed from 2006/03 to 2015/02, and is being updated in near real-time. The AMPS database web page is at http://polarmet.osu.edu/AMPS. The contents of the OSU AMPS database will be highlighted and typical applications of interest to the Antarctic science and operational communities will be demonstrated.

Antarctic Numerical Weather Prediction (NWP) presented by Polar Meteorology Group (PMG) at OSU serves as a backup for AMPS run at NCAR. The current model uses the Polar WRF 3.1.1. The model runs twice a day (00, and 12Z) for 120 forecast hours with 38 vertical levels, and 45 km horizontal resolution. The model uses real time GFS and near real time SST and sea ice NISE data from NSIDC. This summer (2015), PMG is planning to update the model to PWRF 3.6.1, and increase model resolution to 25 km with 48 vertical levels.

As AMPS funding for OSU ends this fall, PMG will continue to update the AMPS database to end of 2015 when it will be frozen, but will continue to be available online . PMG will continue work on improving Polar WRF skills for Antarctic NWP.