

ZP11 Weekly Notes
February 4, 2015

PARTICIPATION IN MULTI-CENTER CLIMATE DOWNSCALING FACE-TO-FACE

MEETING (email to: [brad.zavodsky@nasa.gov/256-961-7914](mailto:brad.zavodsky@nasa.gov) or [jason.b.roberts@nasa.gov/256-961-7477](mailto:jason.b.roberts@nasa.gov)).

Bradley Zavodsky (ZP11), Dr. Brent Roberts (ZP11), and Jonathan Case (ZP11/ENSCO, Inc.) represented MSFC at a face-to-face meeting for a NASA HQ funded project to investigate dynamic downscaling of climate model output. This project brings together researchers from MSFC, GSFC, Ames, and JPL to use a regional weather model to attempt to recreate past climate scenarios and provide a set of metrics to investigate whether weather phenomena, such as winter storms, mesoscale convective systems, and atmospheric rivers are better represented with higher-resolution output. The objective of the meeting was to review the pilot studies from Phase I of the project and plan for actual implementation of the downscaling experiments as part of Phase II activities.

PARTICIPATION IN OLYMPEX FIELD CAMPAIGN PLANNING WORKSHOP (email to: [timothy.j.lang@nasa.gov/256-961-7861](mailto:timothy.j.lang@nasa.gov)):

Timothy Lang (ZP11) participated in the recent Olympic Mountains Experiment (OLYMPEX) Planning Workshop at the University of Washington in Seattle. The workshop, which took place during 21-23 January, was the last major in-person planning meeting for OLYMPEX prior to its start in November 2015. OLYMPEX is a Global Precipitation Measurement (GPM) Ground Validation (GV) field campaign that is aimed at improving satellite estimation of winter precipitation over the ocean as well as mountainous terrain. Support for OLYMPEX also comes from the Aerosol-Cloud-Ecosystem (ACE) Radar Definition Experiment (RADEX), which is funding flight hours for the NASA ER-2 during the project. Marshall Space Flight Center's Advanced Microwave Precipitation Radiometer (AMPR) will be part of the ER-2's instrument package during OLYMPEX.

LIGHTNING PAPER USING LIS-OTD DROPS TO #2 ON ATMOSPHERIC RESEARCH MOST-DOWNLOADED LIST, AFTER 7 MONTHS AT #1. (email to: [Daniel.J.Cecil@nasa.gov/256-961-7549](mailto:Daniel.J.Cecil@nasa.gov)).

“Gridded Lightning Climatology from TRMM-LIS and OTD: Dataset Description” by Dan Cecil (ZP11), Dennis Buechler (UAH/ZP11), and Rich Blakeslee (ZP11) was listed as the #1 most downloaded paper from the journal *Atmospheric Research* beginning in June 2014, until dropping to #2 in January 2015. It has been ranked in the top ten since spring 2013. The rankings track downloads over the previous 90 days, but are updated at least monthly. This paper documents the gridded lightning climatology products made available from MSFC, with examples of results from the period 1995-2010. The current lightning climatology products are updated through 2013. Both the Lightning Imaging Sensor (LIS) and the Optical Transient Detector (OTD) instruments were developed by MSFC.