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Atmospheric Sciences Participating in the 2016 Hazardous Weather Testbed

Announcements

 April 28, 2016  National Weather Center, Spring Forecasting Experiment, Research to Operations  0 Comment

UND Atmospheric Sciences (ATSC) graduate students and faculty are participating in the 2016 Hazardous Weather Testbed (HWT) Spring Forecasting Experiment (SFE), hosted at the National Weather Center in Norman, OK, April 18 through June 3, 2016.

UND ATSC's participation in HWT-SFE is funded by the Research to Operations (R2O) initiative of the National Oceanographic and Atmospheric Administration. The R2O initiative's purpose is to combine cutting-edge research weather models with innovative analysis techniques to help guide operational forecasters in accurate predictions flooding, high winds, hail, and tornadoes from severe storms.

Mr. Josh Markel, ATSC graduate student, is providing a suite of daily forecasts to HWT-SFE for the continental United States using the Weather and Research Forecasting (WRF) model. Unlike typical weather models, WRF can simulate individual thunderstorms. These simulations are being used in coordination with simulations from other agencies, including the Analysis and Prediction of Storms (CAPS) in Norman, OK and the National Center for Atmospheric Research in Boulder, CO.

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ATSC Professor Aaron Kennedy along with three UND graduate students, Mr. Markel, Ms. Brooke Hagenhoff and Mr. Jingyu Wang, are visiting the National Weather Center to work side-by-side with other scientists and forecasters for one week of the HWT.

PI Dr. Xiquan Dong and co-I's Dr. Aaron Kennedy and Dr. Matt Gilmore obtained R2O funding. Supercomputer time is being provided through the National Science Foundation's (NSF's) Extreme Science and Engineering Discovery Environment (XSEDE).

For more information about the Hazardous Weather Testbed, please visit [here](#).

~ *Matthew Gilmore, Associate Professor, Atmospheric Sciences*

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