

## **7.6 Hazardous Weather Testbed Spring Experiment 2015 forecasts results from MPAS**

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We have been producing daily 5-day forecasts with the Model for Prediction Across Scales using a variable-resolution mesh, with convection-permitting 3 km cell spacing over North America transitioning to 50 km over the rest of the globe, as part of the May 2015 Hazardous Weather Testbed Spring Experiment. We seek to address two questions in this experiment: (1) Can a global variable-resolution convection permitting model provide extended range severe weather guidance? (2) Will the MPAS parameterizations (convection, microphysics) result in appropriate behavior of the modeled precipitation processes in the mesh transition region? Preliminary results support positive answers to these questions. We will present results from the experimental forecasts pertaining to these questions at the workshop.