

P57 Recent advancements of verification capability for R20 testing and evaluation within the Developmental Testbed Center

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Robust testing and evaluation of research innovations is a critical component of the Research-to-Operations (R2O) process and is performed for NCEP by the Developmental Testbed Center (DTC). At the foundation of the DTC testing and evaluation (T&E) system is the Model Evaluation Tools (MET), which is also supported to the community through the DTC. The verification team within the DTC has been working closely with the other DTC teams, as well as the operational community, to enhance MET to better support both internal T&E activities and external research and operational needs. This presentation will demonstrate several advancements that will be available in the next MET release (Summer 2015). Specifically, we will demonstrate a new automated regridding capability, the use of MET on Gridpoint Statistical Interpolation (GSI) data assimilation diagnostic files, the calculation of categorical statistics for tropical cyclone rapid intensification and rapid weakening (RI/RW) events, and the Method for Object-based Diagnostic Evaluation – Time Domain (MODE-TD) on different spatial and temporal scales of data.