

9.4 An update on NCAR's experimental real-time convection-allowing ensemble prediction system.

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Since April 2015, NCAR's Mesoscale and Microscale Meteorology (MMM) Laboratory, in collaboration with NCAR's Computational Information Systems Laboratory (CISL), has been producing daily, real-time, 10-member, 48-hr ensemble forecasts with 3-km horizontal grid spacing using the WRF-ARW model over the conterminous United States (<http://ensemble.ucar.edu>). These forecasts are widely used by NCAR researchers and university collaborators, have been embraced by the operational community, and receive considerable attention on social media. This presentation will briefly overview the unique design of the real-time analysis and forecast system before describing forecast performance characteristics over the past year. Future plans and challenges associated with the NCAR ensemble effort will also be detailed.