

Séminaire Jeudi 14 Août 11h00 / Seminar Thursday August 14, 11:00 AM

Conférencier/Lecturer: Russell Schneider (Chief of Science Support, Storm Prediction Center, Norman, Oklahoma)

Sujet/Subject: New Products and Science at the NWS Storm Prediction Center

Présentation/Presentation: Anglais / English

Lieu/Room: Grande salle du premier étage CMC

Résumé / Abstract:

This presentation summarizes advances at the SPC that have been made in partnership with the University and Government research and numerical model community. The talk initially focuses on new human-produced probabilistic severe weather forecast products at the SPC that now extend to 8 days and include a wide range of probabilistic hazard information. Next, local forecaster support tools are summarized and our new approach to forecast support and verification using a relational database is described. The final section focuses on SPC collaborations with the research community within the NOAA Hazardous Weather Testbed. Particular emphasis is placed on high impact weather forecast tools derived from Short Range Ensemble Forecast (SREF) systems and on testing of similar tools from an experimental Storm Scale Ensemble Forecast (SSEF) system over most of the United States. The experimental ten member ensemble had varied physics and initial/boundary conditions with ~ 4 km horizontal resolution across a domain that covered most of the United States. During our 8 week Spring Experiment, it was integrated each night at 00Z to produce a 36 hour forecast. The focus of the experiments have been on both the design of the ensemble, and on the type of high impact forecast products that can be created from such a system.