



The North American Ensemble Forecast System (NAEFS)

Z. Toth (1), J.-G. Desmarais (2), G. Brunet (2), Y. Zhu (1), R. Verret (2), R. Wobus (3), R. Hogue (2), B. Cui (3)

(1) EMC/NCEP/NWS/NOAA, (2) Meteorological Service of Canada, (3) SAIC at EMC/NCEP/NWS/NOAA

The North American Ensemble Forecast System (NAEFS) combines state of the art weather forecast tools, called ensemble forecasts, developed at the Meteorological Service of Canada (MSC), and at the US National Weather Service (NWS). When combined, these tools (a) provide weather forecast guidance for the 1-14 day period that is of higher quality than the currently available operational guidance based on either of the two sets of tools separately; and (b) make a set of forecasts that are seamless across the national boundaries over North America, between Mexico and the US, and between the US and Canada. Since both the research/development and the operational costs of the NAEFS system are shared by the participants, each weather service can produce higher quality and more extensive weather forecast guidance than what they could, working separately on their own.