EMS7/ECAM8 Abstracts, Vol. 4, EMS2007-A-00208, 2007 7th EMS Annual Meeting / 8th ECAM © Author(s) 2007



Probabilistic forecasts based on the HIRLAM INM deterministic model

J. SIMARRO, A. CALLADO, JOSE A. GARCIA-MOYA, C. SANTOS, D. SANTOS-MUÑOZ.

Spanish Meteorological Institute (INM). 28040 Madrid. Spain.

In this work we use the high resolution deterministic model HIRLAM at INM to produce probabilistic forecasts with a spatial and temporal diffusion method. Deterministic models have errors in both space and time directions and one component of this error is related to a displacement of the forecast event and not in the occurrence or not of the event itself. Then a diffusion method which displace the deterministic forecast both in space and time with some a priori probability function can provide a probabilistic forecast. This method is cheap in computational cost and we try to determine whether this method is valuable or not with a verification against observations using the same method as for the SREPS INM short range ensemble system verification.