Geophysical Research Abstracts,
Vol. 10, EGU2008-A-08627, 2008
SRef-ID: 1607-7962/gra/EGU2008-A-08627
EGU General Assembly 2008

A multimodel regional ensemble over Central Europe: preliminary results.

R. Zelazny (1,2), S.P. Malinowski (2), B. Jakubiak (3), L. Lobocki (4), M.L. Witek (2), M. Kurowski (2), K. Bednarek (2), Z.P. Piotrowski (2), J. Struzewska (4), M. Zdunek (4)

(1)Institute of Plasma Physics, Warsaw, (2) University of Warsaw, Institute of Geophysics, (3) University of Warsaw,Interdisciplinary Centre for Mathematical and Computational Modeling, (4)Warsaw University of Technology, Department of Environmental Engineering

We present here first experiments with a multimodel regional ensemble system spanned over Central Europe. Three well known mesoscale models : community model MM5, MC2 and US Navy COAMPS are set up on a domain covering area from 9W to 51E and from 35N to 67N with the horizontal resolution of 20 km and 30 levels in vertical (MC2 21 levels).

Initial and boundary conditions are taken from a New Global Ensemble System of NCEP, effective May 2006. In this ensemble each of 20 realizations is based on perturbations of initial conditions generated by the Ensemble Transformation (ET) Technique and the direct use of the Analysis Covariance Matrix, the particular development of the well known breeding technique. This approach is sometimes called as second generation method of preparation of initial conditions for ensemble forecasting.

In the present case studies covering one summertime and one wintertime period we run in total 63 forecasts for 84 hours, 21 with each mesoscale model. Results from mesoscale ensembles based on outputs from individual models and from a multimodel ensemble will be presented.