

Geophysical Research Abstracts,
Vol. 10, EGU2008-A-03585, 2008
SRef-ID: 1607-7962/gra/EGU2008-A-03585
EGU General Assembly 2008
© Author(s) 2008



The problems of precipitation overestimation in COSMO model for Poland

J. Linkowska, K. Starosta

Institute of Meteorology and Water Management, Podlesna 61 str.

01-673 Warsaw, Poland

joanna.linkowska@imgw.pl, katarzyna.starosta@imgw.pl

The precipitation is a one of crucial importance in the water and energy cycle of the atmosphere. Unfortunately, precipitation is also very difficult to forecast. The questions about improvement and quality of precipitation forecasting are still open.

COSMO model is a limited area non-hydrostatic model, which is developed within the consortium for small-scale modeling (COSMO). In Poland, we had run the COSMO model version 3.5 till June 2007. Since July 2007 we have run version 4.0. The model runs in an operational mode at 14 km grid spacing, twice a day (00 UTC and 12 UTC). For our purpose we also run the model with 7 km grid spacing.

To compare, which resolution and which model version better predicts the precipitation we verified model data against data from 308 rain gauges over Poland. A monthly and daily verification shows that forecasted precipitation is often overestimated. This problem is a goal of the study.