INSTYTUT METEOROLOGII I GOSPODARKI WODNEJ

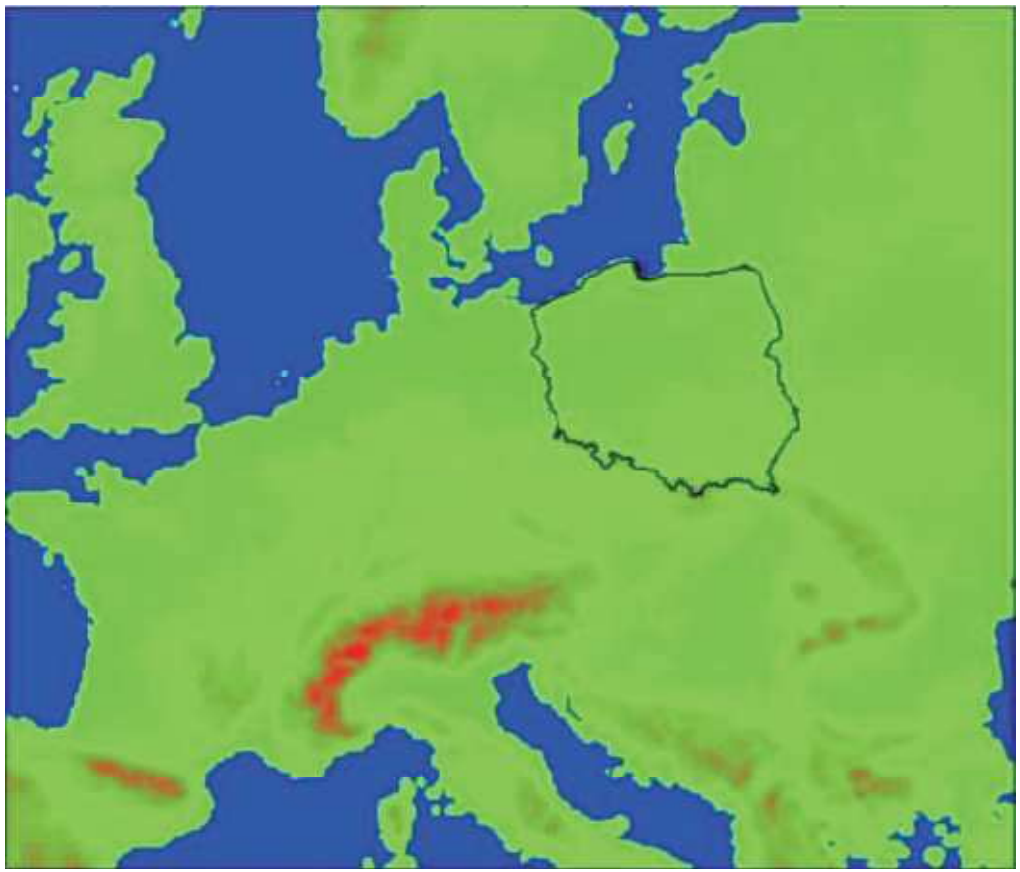
INSTITUTE OF METEOROLOGY AND WATER MANAGEMENT

TITLE:	**NWP-COSMO at IMGW**
AUTHOR:	**IMGW**
DATA:	**28 th September 2009**

Configuration of the model at IMGW

Domain size	**193 x 161 grid points**
Horizontal Grid Spacing	**0.125° (~14 km)**
Number of Layers	**35**
Time Step	**80 s**
Forecast Range	**78 h**
Initial Time of Model Runs	**00 UTC i 12 UTC**
Lateral Boundary Conditions	**Interpolated from GME at 3h intervals**
Initial State	**Interpolated from GME**
Model Version running	**lm_f90 4.0**
Hardware	**SGI 3800 (using 88 of 100 processors)**

The Domain size of 14 km resolution model



Configuration of the model at IMGW -II

Domain size	**385 x 321 grid points**
Horizontal Grid Spacing	**0.0625° (~7 km)**
Time Step	**40 s**
Forecast Range	**48 h**
Initial Time of Model Runs	**00 UTC i 12 UTC**

Current and expected developments:

- work on data assimilation started (reconfiguration of initialization system, first successful test trials of analysis cycle)
- successful start of the new group working on dynamical problems for COSMO PP – Conservative Dynamical Core
- a formal bid for a new computer is open (expected peak performance 3TF, expected delivery: autumn 2009)
- expected operational implementation of 7-km COSMO: end of 2009/beginning 2010
- expected semi-operational implementation of 2.8-km COSMO: beginning of 2010
- expected implementation of assimilation data base in 2010
- expected semi-operational implementation of analysis cycle in 2010

„NWP - COSMO at Institute of Meteorology and Water Management Current status and perspectives”

Thank you for your attention