

**COSMO-CZ-EPS**

Petr Zacharov

Institute of Atmospheric Physics ASCR, Czech Republic

Rezacova, Daniela (Institute of Atmospheric Physics ASCR, Prague, Czech Republic)

Sokol, Zbynek (Institute of Atmospheric Physics ASCR, Prague, Czech Republic)

*E-mail: petas@ufa.cas.cz*

The study presents experiences with an ensemble COSMO-CZ-EPS. This short-range ensemble prediction system is computed on the Institute of Atmospheric Physics ASCR on an initial, lateral and boundary conditions from COSMO-LEPS ensemble. The COSMO-LEPS ensemble has 7km horizontal resolution and it is driven by 16 selected members from ECMWF ensemble. The COSMO-CZ-EPS is integrated in 2.8km horizontal resolution on the domain covering the Czech Republic and near neighbourhood. The integration started at 0600UTC and finished at 2400UTC of the same day.

This study shows the results of QPF from epizodes from 2012-2013 with several events with heavy convective precipitation or other severe convective phenomena. The precipitation fields are verified by gauge adjusted radar measurement. The verification used traditional scores and modern SAL and FSS technique. The ensemble COSMO-CZ-EPS serves also as the base for ensemble spread-skill relationship assesment. The work is supported by the grant GACR 209/12/P701.