



COSMO-CZ-EPS – the first evaluation

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The study presents a first experiences with a new ensemble COSMO-CZ-EPS. This short-range ensemble prediction system is computed on the Institute of Atmospheric Physics ASCR on the initial, lateral and boundary conditions from COSMO-SREPS and COSMO-LEPS ensembles. The COSMO-SREPS is a multi-model 3-member ensemble, driven by three deterministic global models: GME, GFS and IFS global model. The COSMO-LEPS ensemble 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 July 2012 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 technique.

The ensemble COSMO-CZ-EPS will serve as the base for ensemble spread-skill relationship assesment in the future.

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