



Evaluation of uncertainty in the area related QPF of heavy convective precipitation

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Several heavy convective events were studied with LM COSMO model (2.8km) and radar data. An ensemble of nine members, which follows from modifying forecast initial fields, was created for each of analyzed events. Uncertainty in area-related QPF has been evaluated by determining RMS-spread and RMS-skill measures. The spread assesses the differences between ensemble members and the skill evaluates the difference between QPFs and radar precipitation. The uncertainty analysis shows the effect of predictand definition, particularly the area size and the area structure of precipitation field. The results will summarize the influence of area size on the spread / skill ratio.