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Multimodel Ensemble for Short-Range Predictability

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The forecast of severe weather events has a growing interest for the general public. High resolution models have already several problems to deal with such events because their predictability is very low even in the short-range. In such environment, probabilistic forecast can help to address the issue.

Multi-model ensemble prediction systems are showing to be very useful to add some probabilistic value to the deterministic models. A multi-model ensemble prediction system focused on weather forecast up to 72 hours has been developed. The presentation will show the current status of the system and results of the operational verification from January to June 2006.

This objective verification has been done using surface observations from the synoptic European Network and 24 hours accumulated precipitation from the European Climate Network (more than 12000 observations).

Calibration of the system using Bayesian Model Averaging (BMA) has been developed and results from the comparison will be shown as well.