



Meteorological Co-operation on Operational NWP (MetCoOp), SMHI and met.no

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The MetCoOp (Meteorological Co-operation on Operational NWP) project will facilitate a common operational organization for the Numerical Weather Prediction (NWP) production for the Swedish Meteorological and Hydrological Institute (SMHI) and the Norwegian Meteorological Institute (met.no). The poster will provide information about this cooperation that will start in 2014, where the main goal is to provide the best numerical weather prediction for short-time weather forecast. MetCoOp has chosen Harmonie in high resolution (2,5 km) as the deterministic model with Arome physics. The project has to build up a common operation with proper IT-infrastructure, pre-processing of observation, monitoring of observations, do model diagnosis and verification and not to forget the documentation and routines for change. Different data types and observations will be included and also different assimilation techniques and influence of the background matrix will be tested. Test periods for model experiments have been chosen in order to get experience with the model's skill. The periods cover the seasons and extreme weather situations, but also normal weather situations and daily runs of the model will be continuously looked into. This gives a lot of material to analyze, and is a good background and framework to build operations upon. The work will discover good and bad features of the model setup in order to improve the numerical weather forecast which ultimately will benefit the end user.