



Assimilation of radar precipitation in the DMI-HIRLAM now-casting system - initial results

Ulrik Korsholm and Claus Petersen

Danish Meteorological Institute, Research Department, Copenhagen, Denmark (usn@dmi.dk)

The pre-operational DMI now-casting system provides rapid update cycles with new forecasts every hour. Each forecast is initialized by three-dimensional variational and surface assimilation while radar precipitation and satellite derived cloud cover and cloud-top height are nudged every 10 and 15 minutes. For non-precipitating clouds nudging of temperature, humidity and cloud condensate are performed while for precipitating clouds nudging of precipitation is also included in the first two hours of each forecast. Precipitation nudging is based on a dynamical adjustment scheme of the wind field. The poster displays the general methodology and shows new results from system output.