



Stochastic ice phase microphysics in Harmonie EPS and verification of snow forecasts

Sibbo van der Veen

KNMI, Weather Service / Research and Development, De Bilt, Netherlands (veenvds@knmi.nl)

The Harmonie Ensemble Prediction System (HarmonEPS) will be used for making probability forecasts of snowfall over Europe. These forecasts are verified with synop and other observations.

We will show the impact of initial humidity perturbations, and furthermore investigate the influence of stochastic ice phase microphysics on the quality of the forecasts. Stochastic microphysics is accomplished by varying the freezing probabilities in supercooled clouds in the different members of the ensemble.