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Report on real time assimilation system of TWV and improved temperature assimilation

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Report consists of four contributions:

1. *On Optimal Observation Quality Control Theory for Numerical Weather Prediction Systems* (metnote no. 7/2005) by Norwegian Meteorological Institute
2. *Quality Control for AMSU-A Observations over Sea Ice* (metnote no. 12/2005) by Norwegian Meteorological Institute
3. *AMSU-A Assimilation Over Sea Ice in HIRLAM 3D-Var: Impact Studies for the Period February-March 2005* (metnote no. 13/2005) by Norwegian Meteorological Institute
4. *Assimilation of Total Water Vapour Retrievals at SMHI* by Swedish Meteorological and Hydrological Institute

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