

ASSIMILATION OF TRMM RAIN RATES AT ECMWF

V. Marecal, J.-F. Mahfouf and P. Bauer
European Centre for Medium Range Weather Forecasting

In this presentation we will describe the methodology developed at ECMWF for the assimilation of satellite derived rainfall from TRMM in the four dimensional variational (4D-Var) analysis system. This feasibility study has been performed within the 3-year european collaboration EuroTRMM. Results will be presented in terms of quality of the analyses and of the forecasts for both global products and case studies. Emphasis will be put on remaining problems to be solved before having an operational assimilation of rain rates in the ECMWF 4D-Var system.