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Utilization of AMSR-E Data for Numerical Weather Pre Meteorological Agency

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Abstract

Observation data by Advanced Microwave Scanning Radiometer f board the U.S. earth observation satellite Aqua are used for Numer (NWP) models of Japan Meteorological Agency, namely MesoSca Global Spectral Model (GSM). The AMSR-E data have been assir Analysis (MA) since November 2004 and in the Global-Analysis (This paper overviews some technical issues related the assimilation

MA and GA, respectively. For MA, 1) an efficient retrieval algorith and rain rate, 2) a bias correction between the observations by simil between the observation and the model, 3) a four dimensional variation 4) data thinning and smoothing scheme and 5) appropriate setting o key issues for successful assimilation of the AMSR-E data in operat Observation System Experiment (OSE) shows the AMSR-E precip rate data improve the forecast in a heavy rain event. On the other h Var scheme, 2) a direct assimilation of AMSR-E radiance based on transfer scheme named RTTOV-7, and 3) a Variational Bias Corre issues. A pre-operational OSE shows the improvement of typhoonprecipitation distribution over the Indian Ocean. The accuracy of ty has been improving recently by the improvement of the NWP mode analysis system as well as the introduction of new observation data i imager data. The observation network of the microwave radiometer Precipitation Measurement (GPM) mission will be constructed in th promising data are provided by ground-based Global Positioning S precipitable-water data for MA and GPS occultation temperature a GA.

Keywords: <u>Numerical Weather Prediction</u>, <u>Microwave Imager</u>, <u>A</u> Assimilation

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