**AMVS IN THE OPERATIONAL ECMWF SYSTEM**

Kirsti Salonen and Niels Bormann

ECMWF

Abstract

This presentation gives an overview of the operational use of atmospheric motion vectors (AMVs) in the ECMWF system with an emphasis on recent changes. Currently AMVs from five geostationary and five polar orbiting satellites are used actively in the ECMWF system.

The use of AMVs has been extensively revised. This includes the use of situation dependent observation errors and revised quality control. As a result of the changes slightly more AMVs are used in the model analysis, and the specific characteristics of the observation type are taken into account in a more realistic way.

The number of active polar AMVs has recently increased by circa 75% with the introduction of NOAA-15,-16,-18 and -19 AVHRR AMVs into the system. Monitoring the quality of new data sets is an important part of the process of introducing new AMVs into the system. In early 2014 AMVs from e.g. tandem Metop-A/Metop-B, and NPP VIIRS are expected to become available. Also the dissemination of hourly GOES AMVs is expected to take place. Latest results related to the new data sets will be discussed.