EMS Annual Meeting Abstracts Vol. 11, EMS2014-447, 2014 14th EMS / 10th ECAC © Author(s) 2014



Reprocessed Meteosat Second Generation Geophysical Products for Reanalysis

Marie Doutriaux-Boucher, Joerg Schulz, Alessio Lattanzio, and Rob Roebeling EUMETSAT, Darmstadt, Germany (Joerg.Schulz@eumetsat.int)

A new global reanalysis, ERA-SAT, covering the satellite era will be produced by the European Centre for Medium-Range Weather Forecasts (ECMWF) to replace the existing ERA-Interim reanalysis. In the framework of the European project ERA-CLIM, EUMETSAT has reprocessed several Climate Data Records (CDRs) using data from the Spinning Enhanced Visible and Infrared Imager (SEVIRI) instrument onboard the geostationary Meteosat Second Generation Satellites (MSG) that are assimilated by ECMWF to produce the new reanalysis product. This first reprocessing of SEVIRI derived operational products covers the period 2004-2011. Three-hourly Atmospheric Motion Vectors (AMVs), Clear Sky and All Sky radiances (CSR and ASR), Cloud Analysis (CLA), and Upper Tropospheric Humidity (UTH) were reprocessed using the last operational Meteorological Product Extraction Facility (MPEF) algorithms and the ERA interim data as a forecast input. Those CDRs will become available and can be requested via the EUMETSAT archive facility. In our presentation we will present an analysis of the timeseries of the different MPEF products that provides insight into the temporal consistency and eventual issues with the data record. Finally, our presentation will discuss further planned improvements realised for a next reprocessing of the products at EUMETSAT.