



The Generation and Provision of Climate Data Records based on Satellite Data for Climate Monitoring

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The EUMETSAT Satellite Application Facility on Climate Monitoring (CM SAF) generates, archives and distributes widely recognized high-quality satellite-derived products and services relevant for climate monitoring. First data sets have already been released during the Continuous Development and Operations Phase CDOP-1 (2007-2012). Users have access to several surface radiation parameters based on MVIRI and a set of SSM/I based parameters ranging from vertically integrated water vapour to latent heat fluxes based on more than 20 years of satellite data. Further climate data records will be released during 2012 covering several cloud parameters, surface albedo, radiation fluxes at top of the atmosphere and at the surface, atmospheric temperature and water vapour profiles as well as vertically integrated water vapour (total, layered integrated). These data records will be derived from different sensors onboard operational geostationary and polar orbiting satellites including instruments such as (A)TOVS, AVHRR (in GAC resolution), GERB and SEVIRI. The data sets cover different areas of the globe depending on the coverage of the used satellite data. During the current project phase (2012-2017) already released data sets will be extended and re-processed. Additionally, new parameters will be added to the product portfolio of the CM SAF.

This presentation will give an overview on the current and planned re-processing activities at the CM SAF taking into account the processing approach and the provided services as well as. The procedures to get access to all CM SAF products and services will be described.