

CM SAF Newsletter 19

November 2014

The EUMETSAT
Network of
Satellite Application
Facilities



Availability CM SAF CDR of cloud fraction from SEVIRI in high temporal resolution

The SEVIRI cloud mask dataset has been generated and released by the EUMETSAT Satellite Application Facility on Climate Monitoring (CM SAF) to enhance the cloud property dataset [CLAAS](#). The SEVIRI cloud mask dataset contains the cloud mask in 15 minutes temporal resolution. The dataset is pixel based, where a SEVIRI pixel is about 4x4 km² in size, depending on location in SEVIRI's field of view. The data are provided with regional coverage from $\pm 60^\circ$ N/S and $\pm 60^\circ$ E/W. Inter-calibrated effective radiances of Meteosat-8 and 9 form the basis of the cloud mask dataset which spans 9 years from 2004 to 2012. The dataset is complemented with a comprehensive documentation of the algorithms used and the generation of the dataset. Validation studies and user guidance are available as well. With this dataset, small, regional and large scale cloud processes at temporal scales of hours to years can be studied. In addition, the dataset is suited for all applications in which a conservative cloud mask is essential (e.g. land surface, aerosol or trace gas retrievals).

The data can be ordered via the [Web User Interface](#). More information on the dataset can be found via the DOI [10.5676/EUM_SAF_CM/CMA_SEVIRI/V001](#).

New Version of CM SAF AVHRR and SEVIRI based EDR products from September 2014 onwards

CM SAF uses the super computer at ECMWF for the processing of its environmental data records. During this summer ECMWF changed from an IBM system to a Cray XC30 system (further information on ECMWF's computing facilities can be found [here](#)). This required a migration of the CM SAF processing system to the new environment. To reflect the change in the processing system and the required adaptations in the processing environment, CM SAF introduced new version numbers for the affected products. CM SAF's AVHRR and SEVIRI based EDR products are available with the following new version numbers from September 2014 onwards:

AVHRR based products:

Product	New version number
CFC	350
COT	340
CPH	350
CTH	350
CTP	350
CTT	350
CWP	340
SAL	340
SIS	330

SEVIRI based products:

Product	New version number
CFC	350
CTH	350
CTP	350
CTT	350
SIS	350
SID	350

Please also check the [Change Log](#) webpage for the history of the version numbers of the products.

Users having a standing order for the affected products will need to re-new their standing order if they want to further receive the products.

Open session on remote sensing of the Earth and environment at EGU 2015

CM SAF will act as co-convener for the EGU session:

HS6.8 - Open session on remote sensing of the Earth and environment

The session might be a good opportunity to present your work with CM-SAF data. It brings together scientists from different fields of the multidisciplinary science of remote sensing to discuss recent advances in:

1. Remote sensing algorithms and techniques that are used to derive hydrological and meteorological variables such as precipitation, solar radiation, temperature, water vapor, cloud physical and micro-physical parameters, vegetation indices, and soil moisture from spaceborne observations
2. Methods to quantify uncertainties in satellite data and products, e.g., estimates of random and systematic errors, calibration and validation of the observations
3. Data assimilation systems to incorporate remotely sensed data into hydrological, weather and climate models
4. Applications of spaceborne observations and products in hydrology, meteorology, environmental science and agricultural practices

The deadline for submission of abstracts is 7 January 2015.

The abstract submission is open and available at:

<http://meetingorganizer.copernicus.org/EGU2015/session/18454>

Please feel free to distribute this information to anyone else in your group who might be interested in contributing an abstract.

2015 CM SAF Training Workshop

The Satellite Application Facility on Climate Monitoring (CM SAF, www.cmsaf.eu), the South African Weather Service (SAWS) and EUMETSAT have the pleasure to draw your attention to the EUMETSAT / CM SAF Training Workshop on “The Use of gridded Satellite Data for Climate Services in Africa”, which will take place from 8 to 12 June 2015 in Pretoria, South Africa.

The key objective of the 2015 CM SAF Training Workshop is to instruct active and potential users of gridded satellite data in the use of CM SAF products for operational climate monitoring and climate research focusing on applications in Africa. The participants will complete an online element in April 2015 during which they will

define a small project to be completed during the workshop in Pretoria. During this phase they will identify which data will be most applicable for their work.

The workshop will focus on the project work with supporting presentations and group work on the application of satellite data to climate monitoring. Focus will be given to practical classes using CM SAF data based on free software tools (climate data operators (cdo) and R, see <http://www.cmsaf.eu/tools/> for further information). During the workshop the participants will have the opportunity to explore the use of CM SAF data in their daily work. Participants are encouraged to bring their own laptops.

The target group for participation are climatologists at all levels of experience in using satellite data for climate applications. An advanced knowledge of the English language (corresponding to CEFR C1) is mandatory for participation. It is assumed that the participants have experience with applications of climatological data, potentially using satellite data.

More information on the workshop and the online application form can be found at: <http://training.eumetsat.int/mod/page/view.php?id=5289>
The deadline for application is Friday, 30 January 2015.

CM SAF presentations at upcoming conferences

Presentations on CM SAF topics will be given at a number of upcoming conferences presenting the latest results of our work, among others:

15 -19 December 2014, [AGU Fall Meeting](#), San Francisco, USA

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