

# CM SAF Newsletter 15

## January 2014

The EUMETSAT  
Network of  
Satellite Application  
Facilities



### **Availability of CM SAF Daylight Data set**

The CM SAF Daylight Data Set is a satellite-based climatology derived from satellite-observations from the visible channel of the Meteosat satellites. The data are available from 1983 to 2011 and cover the region  $\pm 65^\circ$  longitude and  $\pm 65^\circ$  latitude. The products are available as monthly and daily means on a regular latitude/longitude grid with a spatial resolution of  $0.05^\circ \times 0.05^\circ$  degrees. The data can be ordered via the [Web User Interface](#). Further information on the data set can be found via its DOI: [10.5676/EUM\\_SAF\\_CM/DAL\\_MVIRI\\_SEVIRI/V001](https://doi.org/10.5676/EUM_SAF_CM/DAL_MVIRI_SEVIRI/V001)

### **Decontamination of Meteosat-10 SEVIRI instrument from 14-21 January 2014 and effects on CM SAF EDR products CFC, CTT, CTH, CTP, SIS and SID**

From 14 January to 21 January 2014 EUMETSAT performed a decontamination of the SEVIRI instrument onboard Meteosat-10 (for further information please check the [EUMETSAT News page](#)). During this time no Meteosat-10 SEVIRI data had been available. Meteosat-10 SEVIRI data became available again at 09:30 UTC on 21 January 2014. This affected the processing of the SEVIRI-based CM SAF Environmental Data Records (EDR) of CFC, CTT, CTH, CTP, SIS and SID. Although Meteosat-9 replaced Meteosat-10 during this time, the SEVIRI-based CM SAF cloud and surface radiation products have not been calculated during the time frame of the satellite's decontamination. There are no daily mean products available for the time frame 14-20 January 2014. The daily mean product for 21 January 2014 is based on a reduced amount of input data. The monthly mean as well as the monthly mean diurnal cycle products based on SEVIRI will be based on a reduced amount of input data for January 2014 as a consequence of the decontamination phase. Users should be aware of the effects when interpreting the SEVIRI-based EDR products from January 2014. Users might be interested to have a look at the products based on AVHRR data covering the CM SAF baseline area ( $30^\circ\text{N}$ - $80^\circ\text{N}$ ,  $60^\circ\text{W}$ - $60^\circ\text{E}$ ) of CFC, CTT, CTH, CTP and SIS as an alternative data source during the decontamination phase.

### **Decontamination of SEVIRI on Meteosat-10 in July 2013 and effect on the CM SAF TOA EDR products**

A decontamination of Meteosat-10 was performed between 1st and 9th of July 2013. This results in the non availability of the daily mean TRS and TET products for those 9 days. The users are warned that the monthly mean products, as well as the monthly mean diurnal cycle products, for this month are based on a reduced number of days (10th to 31st of July). This sampling problem is known to introduce significant

random difference with respect to the true monthly means (1st to 31th July). A quantitative evaluation of this effect is provided in the validation report for the TOA radiation dataset

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