

# CM SAF Newsletter 23

## March 2016

The EUMETSAT  
Network of  
Satellite Application  
Facilities



### **New version of CM SAF ATOVS-based products HTW, HLW and HSH from October 2015 onwards**

Since end of September 2015 one of the AMSU-A channels on Metop-A shows an increase in noise level which hampered the retrieval of the parameters HTW, HLW and HSH. As this channel had been used in the retrieval algorithm at that time, no retrievals from Metop-A could be generated. This led to the decision to temporarily stop the processing of HTW, HLW and HSH at CM SAF and resulted in some delay in the provision of these products from October 2015 onwards. With the update of the processing system, this could be fixed, the missing data have been generated and the timeliness requirements are met again: For products from October 2015 onwards a new ATOVS retrieval scheme (version 350) has been implemented in order to allow processing of Metop-A data again. Channels 7 and 8 of AMSU-A have been removed from the input stream of the ATOVS processing. This required the implementation of an updated IAPP, now in version 4, kindly provided by the University of Wisconsin. In consequence the upper tropospheric temperature products exhibit changes in quality between September and October 2015, leading to generally smaller bias and RMSE. However, at 200-300 hPa the quality decreased but is still within the service specification.

Please also check the [ChangeLog](#) 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.

### **Decontamination of Meteosat-10 SEVIRI in December 2015 and effects on CM SAF SEVIRI-based cloud, surface radiation and top-of-atmosphere products**

In the timeframe 08 December 2015, 08 UTC to 14 December 2015, 09:30 UTC, no Meteosat-10 SEVIRI data had been available due to a decontamination of the instrument by EUMETSAT. During this time SEVIRI data from Meteosat-8 had been disseminated. Further details are available via the EUMETSAT [News page](#). This affects the SEVIRI based CM SAF EDR cloud, surface radiation and top of atmosphere products (CFC, CTH, CTP, CTT, SIS, SID, TRS, TET). For the cloud products SEVIRI data from Meteosat-8 have been used to generate daily mean products during the decontamination phase. A combination of data from Meteosat-8 and Meteosat-10 has been used to generate the monthly products. However, a generation of the surface radiation parameters during the time period of the decontamination has not been possible due to missing top of atmosphere input data. There are no daily mean products for SID and SIS available for the time frame 09-13 December 2015. The top of atmosphere parameters could not be generated either and daily mean products from 8-14 December 2015 are not available. As a

consequence, the monthly mean as well as the monthly mean diurnal cycle products for the surface radiation and top of atmosphere parameters are based on a reduced amount of input data for December 2015. Also, the daily mean surface radiation products for the days of the switches are based on a reduced number of input data. Users should be aware of the effects of different data sources for the cloud products and reduced amount of data when interpreting the SEVIRI-based EDR products from December 2015.

### **Outage of Meteosat-10 SEVIRI data in November 2015 and effects on CM SAF SEVIRI-based cloud, surface radiation and top-of-atmosphere products**

In the timeframe 15 November 2015, 03:36 UTC to 18 November 2015, 12 UTC, no Meteosat-10 SEVIRI data had been available due to a satellite anomaly. The spacecraft experienced a switch to safe mode and EUMETSAT recovered the satellite and switched back to operations on 18 November 2015, 12 UTC. This affects the SEVIRI based CM SAF EDR products of cloud and surface radiation (CFC, CTH, CTP, CTT, SIS, SID). No daily mean products are available for 15-17 November 2015 and the daily mean products of 18 November are based on a reduced amount of data. The top-of-atmosphere products TRS and TET are also affected by the outage; here the daily mean products for the timeframe 15-18 November could not be generated. Users should be aware that the monthly mean and monthly mean diurnal cycle products are based on a reduced amount of data.

### **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:

- 14-18 March 2016, [DACH 2016](#), Berlin, Germany
- 11-14 April 2016, [MICRORAD 2016](#), Espoo, Finland
- 16-22 April, [International Radiation Symposium](#), Auckland, New Zealand
- 17-22 April 2016, [EGU General Assembly 2016](#), Vienna, Austria

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