

CM SAF Newsletter 22

October 2015

The EUMETSAT
Network of
Satellite Application
Facilities



CM SAF TOA EDR products using GERB-3 data from May 2015 onwards

It is our pleasure to announce, that from May 2015 onward, the CM SAF TOA radiation products are again based on observations from the GERB-3, the instrument on Meteosat-10. During the period from January 2013 to April 2015, the CM SAF TOA EDR products have been derived from SEVIRI only due to an outage of the de-spin mirror of the GERB-3 instrument. Note that during the GERB-3 outage, GERB operational service has been transferred to GERB-1, the instrument on Meteosat-9, but science data for this period are still not released by the GERB team.

Updates of the SARAH data set

The following updates are available for the Surface Solar Radiation Data Set - Heliosat (SARAH) (doi: [10.5676/EUM_SAF_CM/SARAH/V001](https://doi.org/10.5676/EUM_SAF_CM/SARAH/V001)):

- 1) Extended spatial coverage in winter towards higher latitudes from 2006 to 2013
- 2) Extended temporal coverage, now including 2014
- 3) Corrected hourly-averaged SIS data for November 2010

The updated data are not available through the CM SAF Web User Interface. If you are interested in receiving the updated data, please contact contact.cmsaf@dwd.de.

Further details on the updates are provided below:

1) Extended spatial coverage in winter towards higher latitudes from 2006 to 2013

The processing of the satellite data from 2006 onwards (SEVIRI-era) had only been performed for solar zenith angles below 80° resulting in an insufficient number of observations to derive daily and monthly averages for high latitudes in winter. The data from 2006 to 2013 has been reprocessed using 88° as the upper limit for the solar zenith angle, which is consistent with the data from 1983 to 2005.

2) Extended temporal coverage including 2014

The processing of the data has been continued until December 2014. Daily and monthly mean data of CAL, SIS, and DNI are available for 2014.

3) Corrected hourly-averaged SIS data for November 2010¹

The hourly-mean SIS data for November 2010 has been found to be incorrect due to technical problems with the processing. The data had to be corrected and can be provided to the users. Please note that these technical problems did not affect the daily and monthly averages of SIS from November 2010. Also the hourly-averaged DNI has not been affected. No other months were affected by this problem.

New features in CM SAF Web User Interface

New features have been introduced to our [Web User Interface](#) in September 2015. The product search form now provides two new search options to filter the product search result. The first one allows selecting a specific product family like for example CLAAS, CLARA-A1, or HOAPS. The second extension restricts the search to display only products available for the selected time period.

Training module “Satellite-Derived Climatology Products for Monitoring Convection Over West and Central Africa”

A new online training module has been published by [COMET MetEd: Satellite-Derived Climatology Products for Monitoring Convection Over West and Central Africa](#).

The lesson describes satellite-derived cloud climatology products based on the CM SAF [CLAAS](#) data set and several global instability indices, all of which can be integrated with other products to forecast convection. The module is freely accessible after registration and aims at weather forecasters and meteorology students who work in West and Central Africa and are interested in the area’s weather and/or climatology.

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:

- 20-23 Oct 2015, [Earth Observation for Water Cycle Science 2015](#), ESA-ESRIN, Frascati, Italy
- 28 Oct – 3 Nov 2015, [International TOVS Study Conference 20](#), Lake Geneva, Wisconsin, USA
- 04-05 Nov 2015, [5th G-VAP Workshop](#), Madison, Wisconsin, USA
- 14-18 December, [AGU Fall Meeting](#), San Francisco, USA

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If you do not want to receive the CM SAF newsletter any longer you can cancel it at any time by changing the settings in your user profile on the Web User Interface page <http://wui.cmsaf.eu>

¹ We thank René Buffat (ETH Zürich) for detecting and reporting this problem.