

CM SAF Service Message 93

Updates of the SARAH data set

The EUMETSAT
Network of
Satellite Application
Facilities



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.

Update: Hourly means are now available for 2014 as well.

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.

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