

CM SAF Newsletter 24

June 2016

The EUMETSAT
Network of
Satellite Application
Facilities



Provision of CM SAF data via EUMETCast since April 2016

The following CM SAF products are disseminated via EUMETCast:

Monthly means of Fractional Cloud Cover

Example filename: S-CM_CFCmm201512010000350070046301MA.nc

Monthly means of Surface Incoming Shortwave Radiation

Example filename: S-CM_SISmm201512010000350070047001MA.nc

The product format is netCDF and both products are based on SEVIRI data from the geostationary MSG satellites. More information on the products can be found on the [Operational Products section of the CM SAF website](#).

The products are distributed on EUMETCast Europe and EUMETCast Africa:

Channel:	SAF-Africa
PID:	301
Multicast Address:	224.223.222.33

Users wishing to access these products via their EUMETCast station should register through the [Earth Observation Portal \(EOP\)](#).

For more information, please contact the EUMETSAT [User Service Helpdesk](#).

Extension of SARAH climate data record until 2015

An improved version of the CM SAF SARAH-1 climate data record based on Meteosat satellite observations covering the time period 1983 until 2015 will be made available by the end of 2016 (SARAH-2).

In the meantime an interim version of the extension of the CM SAF SARAH climate data record for the years 2014 and 2015 based on [SARAH version 1](#) algorithms is available on request (see also [Service Message 93](#) for more information on this beta version of the data record). The surface irradiance data in 2014 and 2015 show the same accuracy compared to BSRN and GEBA surface reference measurements as documented for the SARAH-1 climate data record; however, no detailed validation report is provided. Please contact the CM SAF User Help Desk (contact.cmsaf@dwd.de) if you are interested in the extended time series.

SARAH-East climate data record of surface radiation available

In cooperation with the PV-GIS, EU Joint Research Centre (JRC), Ispra, Italy, the CM SAF now distributes a climate data record of surface solar radiation based on the observations from the MVIRI instruments onboard the Meteosat-East satellites: SARAH-E (doi: [10.5676/DWD/JECD/SARAH_E/V001](https://doi.org/10.5676/DWD/JECD/SARAH_E/V001)). This climate data record is derived using the same retrieval scheme used to derive the SARAH climate data record and provides information on the global irradiance, the direct horizontal radiation and the direct normalized radiation with a spatial resolution of 0.05° x 0.05° from 8°W to 128°E longitude and ±65° latitude. The data are available as monthly and daily averages and as instantaneous hourly information. The data and accompanying documentation are available at http://dx.doi.org/10.5676/DWD/JECD/SARAH_E/V001

Map of Sunny Days extended

Based on the CM SAF SARAH and CLARA climate data records of the surface solar radiation the CM SAF provides information on the likelihood of a certain day of the year being a so-called 'Sunny Day': www.cmsaf.eu/SunnyDays. A 'Sunny Day' is defined as a day that experienced at least 80 % of the clear sky surface solar radiation; in addition, for Europe and Africa 'Sunny Periods' have been defined as at least 5 consecutive sunny days. This information is now globally available; for Europe and Africa the information is based on the SARAH data record, for the rest of the world, a preliminary version of the upcoming CLARA-A2 climate data record has been used. Please get in touch with us if you would like to receive this information for other places: contact.cmsaf@dwd.de

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:

- 11 - 16 September 2016, [EMS & ECAC 2016](#), Trieste, Italy
- 12 – 16 September 2016, [12th EUMETSAT User Forum in Africa](#), Kigali, Rwanda
- 26 - 30 September 2016, [EUMETSAT Meteorological Satellite Conference](#), Darmstadt, Germany

Publications by CM SAF team

The following list gives an overview of some recently published papers by the CM SAF team covering CM SAF products and developments. Authors from the current CM SAF team are marked in bold.

Courcoux, N. and **Schröder, M.**: The CM SAF ATOVS data record: overview of methodology and evaluation of total column water and profiles of tropospheric humidity, Earth Syst. Sci. Data, 7, 397-414, 2015, [doi: 10.5194/essd-7-397-2015](https://doi.org/10.5194/essd-7-397-2015)

Duguay-Tetzlaff, A.; Bento, V.A.; Göttsche, F.M.; **Stöckli, R.**; Martins, J.P.A.; Trigo, I.; Olesen, F.; Bojanowski, J.S.; da Camara, C.; Kunz, H. Meteosat Land Surface Temperature Climate Data Record: Achievable Accuracy and Potential Uncertainties, Remote Sens., 2015, 7, 13139-13156, [doi:10.3390/rs71013139](https://doi.org/10.3390/rs71013139).

Haiden, T. and **Trentmann, J.**, Verification of cloudiness and radiation forecasts in the greater Alpine region, Meteorologische Zeitschrift, 2016, 25, 3–15, [doi:10.1127/metz/2015/0630](https://doi.org/10.1127/metz/2015/0630)

Pfeifroth, U.; **Trentmann, J.**; Fink, A. H. and Ahrens B., Evaluating Satellite-Based Diurnal Cycles of Precipitation in the African Tropics, Journal of Applied Meteorology and Climatology 2016 55:1, 23-39, [doi:10.1175/JAMC-D-15-0065.1](https://doi.org/10.1175/JAMC-D-15-0065.1)

Spangehl, T., **M. Schröder**, S. Stolzenberg, R. Glowienka-Hense, A. Mazurkiewicz, A. Hense, 2015: Evaluation of the MiKlip decadal prediction system using satellite based cloud products. Met. Zeitschr, [doi:10.1127/metz/2015/0602](https://doi.org/10.1127/metz/2015/0602).

Stolzenberg, S., R. Glowienka-Hense, T. Spangehl, **M. Schröder**, A. Mazurkiewicz, A. Hense, 2015: Revealing skill of the MiKlip decadal prediction systems by three dimensional probabilistic evaluation, [doi:10.1127/metz/2015/0606](https://doi.org/10.1127/metz/2015/0606).

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