

Stop of EDR SEVIRI processing on 5 March 2018 being replaced by a new CM SAF regular extension of related parameters from the SARAH-2 and CLAAS-2 SEVIRI data record from January 2018 onwards

As announced earlier, there are changes in the provision of SEVIRI based products: The current regular processing of SEVIRI based cloud and radiation parameters (Environmental Data Records EDRs) are replaced by a regular extension of the related parameters of the long-term climate data records ([SARAH-2](#) and [CLAAS-2](#)). This change became effective with the switch from Meteosat 10 to Meteosat 11 in early March. No SEVIRI based Environmental data record (EDR) products of fractional cloud cover (CFC), cloud top products (CTT, CTH, CTP), surface incoming shortwave radiation (SIS) as well as surface incoming direct radiation (SID) are provided after 5 March 2018. The previously generated data will however remain archived and available via the Web User Interface.

The products replacing the discontinued service are so-called Interim Climate Data Records (ICDRs), which are consistent continuations of well-established Thematic Climate Data Records (SARAH-2 and CLAAS-2), which in combination are now able to support better climate monitoring applications.

The fractional cloud cover (CFC), cloud top products (CTO, including the data fields of height (CTH), temperature (CTT) and pressure (CTP)), surface incoming shortwave (SIS), surface incoming direct radiation (SID) and direct normalized irradiance (DNI) are based on the same algorithm basis as the parameters in the corresponding TCDRs (CLAAS-2 for cloud products and SARAH-2 for surface radiation parameters). The new products are provided as daily and monthly products for data from January 2018 onwards.

The output format as well as the spatial resolution and projection of the ICDRs is the same as for the TCDRs. Thus, the grid of these products is a regular $0.05^{\circ} \times 0.05^{\circ}$ latitude/longitude grid and the internal file structure (number of data layers, name of fields) is going to be different compared to the previously provided EDRs as well (see also [Newsletter 33](#)). The file format for the ICDR parameters is netcdf-4. Additionally, the timeliness requirement for the new ICDR will be 5 days (compared to 2 months for the EDRs).

The new ICDR products for January 2018 are provided with version number 400 and starting with the change to Meteosat-11 during February 2018 products are provided with version number 410.

Currently, via the Web user interface all data starting from May 2018 are available, whereas the earlier months (January 2018 - April 2018) will be added during the next month.

User documentation is available via the following webpages:

[ICDR SEVIRI \(cloud products\)](#)

[ICDR SEVIRI \(Surface radiation products\)](#).

Important information on change in data distribution service protocol from ftp to https/sftp

CM SAF is changing the data distribution service protocol from ftp (ftp-cmsaf.dwd.de) to https/sftp (cmsaf.dwd.de) from 8 May 2018 onwards.

In order to allow a smooth transition for all users, both distribution channels will be operated in parallel for a 2-month transition phase before the old ftp server is retired.

The new data distribution service will be available via

https://cmsaf.dwd.de/data/ORDER_ID and sftp://cmsaf.dwd.de/data/ORDER_ID.

Login credentials and download details will be made available with the final order notification email.

Users are encouraged to inform the CM SAF User Help Desk

(via contact.cmsaf@dwd.de) about any problems encountered when using the new distribution channel.

Operations Report for July-December 2017 available

The [2nd Operations Report 2017](#) covering the reporting period July to December 2017 is available on our webpage. The purpose of the Operations Report is to outline the operations activities within the CM SAF and to provide a summary of operational activities during the reporting period. Furthermore, a summary of User Help Desk (UHD) activities and user statistics is given. An [archive](#) of previous reports can be found on our webpage as well.

Updated Validation Report for TCDR "Meteosat Cloud Fractional Cover (COMET) Edition 1"

An updated validation report for the thematic climate data record "Meteosat Cloud Fractional Cover (COMET) Edition 1" has been made available after a bug has been detected in Table 5 (Performance statistics of level-2 Meteosat CFC as compared with synoptic observations) of the document. Users can access the new version of the validation report via the [DOI page](#) and the respective [documentation](#) section of the CM SAF web page.

MSG/SEVIRI Aerosol Optical Depth: Error in global attribute

Users of the MSG/SEVIRI Aerosol Optical Depth record should be aware that one global attribute has been incorrectly encoded in the NetCDF files: the value of the geospatial_lon_max=-81.26 (degree East) should be considered as +81.26 (degree East). It is worth to mention that this data record is provided in a geostationary grid projection. The latitude/longitude of each pixel grid can be obtained from the CLAAS-2 ancillary file "[claas2_level2_aux_data.nc](#)" available via the [DOI page](#), which is valid for the AOD TCDR as well.

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:

Karlsson, K.-G. and Håkansson, N.: Characterization of AVHRR global cloud detection sensitivity based on CALIPSO-CALIOP cloud optical thickness information: demonstration of results based on the CM SAF CLARA-A2 climate data record, Atmos. Meas. Tech., 11, 633-649, doi : [10.5194/amt-11-633-2018](https://doi.org/10.5194/amt-11-633-2018), 2018.

Pfeifroth, U., Bojanowski, J. S., **Clerbaux, N.**, Manara, V., Sanchez-Lorenzo, A., **Trentmann, J.**, Walawender, J. P., and **Hollmann, R.**: Satellite-based trends of solar radiation and cloud parameters in Europe, Adv. Sci. Res., 15, 31-37, doi: [10.5194/asr-15-31-2018](https://doi.org/10.5194/asr-15-31-2018), 2018.

Pfeifroth, U., Sanchez-Lorenzo, A., Manara, V., **Trentmann, J.**, and **Hollmann, R.**: Trends and variability of surface solar radiation in Europe based on surface- and satellite-based data records. Journal of Geophysical Research: Atmospheres, 123, 1735–1754. <https://doi.org/10.1002/2017JD027418>, 2018.

Riihelä, A., Key, J. R., **Meirink, J. F.**, Kuipers Munneke, P., Palo, T. and **Karlsson, K.-G.**, An intercomparison and validation of satellite-based surface radiative energy flux estimates over the Arctic, J. Geophys. Res. Atmos., 122, 4829–4848, doi:[10.1002/2016JD026443](https://doi.org/10.1002/2016JD026443), 2017.

Schröder, M., Lockhoff, M., Fell, F., Forsythe, J., Trent, T., Bennartz, R., Borbas, E., Bosilovich, M. G., Castelli, E., Hersbach, H., Kachi, M., Kobayashi, S., Kursinski, E. R., Loyola, D., Mears, C., Preusker, R., Rossow, W. B., and Saha, S.: The GEWEX Water Vapor Assessment archive of water vapour products from satellite observations and reanalyses, Earth Syst. Sci. Data Discuss., doi: [10.5194/essd-2017-128](https://doi.org/10.5194/essd-2017-128), in review, 2018.

Urraca, R., Gracia-Amillo, A.M., Huld, T., Martinez-de-Pison, F.J., **Trentmann, J.**, Lindfors, A.V., **Riihelä, A.**, and Sanz-Garcia, A.: Quality control of global solar radiation data with satellite-based products. Solar Energy 158, 49–6,doi: [10.1016/j.solener.2017.09.032](https://doi.org/10.1016/j.solener.2017.09.032) , 2017.

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