

Release of SARAH-2: Surface Solar Radiation Data Set from MVIRI and SEVIRI – Edition 2

The second edition of the Surface Solar Radiation Data Set - Heliosat (SARAH-2) is a satellite-based climate data record of the solar surface irradiance, the surface direct irradiance (direct horizontal and direct normalised), the sunshine duration, spectral information, and the effective cloud albedo derived from satellite-observations of the visible channels of the MVIRI and the SEVIRI instruments onboard the geostationary Meteosat satellites. The data are available from 1983 to 2015 and cover the region $\pm 65^\circ$ longitude and $\pm 65^\circ$ latitude ($\pm 60^\circ$ longitude and $\pm 60^\circ$ latitude for the spectral information). The products are available as monthly and daily means, and as 30-min instantaneous data (sunshine duration is available as monthly and daily sum) on a regular latitude/longitude grid with a spatial resolution of $0.05^\circ \times 0.05^\circ$ degrees. The data record is complemented with a comprehensive documentation of the algorithms used and the generation of the dataset. Validation studies and user guidance are available as well.

The data record can be ordered via the [Web User Interface](#). More information on the data record is available from the DOI page: [10.5676/EUM_SAF_CM/SARAH/V002](https://doi.org/10.5676/EUM_SAF_CM/SARAH/V002)

Update on changes in order handling for large orders

In October 2016 CM SAF announced changes in the order handling for requests larger than 1 TB (see [Newsletter 25](#)). After monitoring the process for several months, CM SAF decided to implement a checking of order sizes during the ordering process. At any time of the processing (between placing the order and availability of the data on the CM SAF ftp-server) a maximum total order size of 1 TB per user is allowed. As long as the active orders stay below a total data amount of 1 TB new orders can be placed. When placing the order in the order cart, the probable size is checked against the maximum order size and the already ordered data volume. Information will be provided at all times during the ordering process. As soon as an order has been processed, the data amount of the active orders is adjusted accordingly and users can place new requests. However, it is highly recommended to download the previously placed order(s) before submitting a new request, as there is still a time limit of 14 days for the download on the ftp-server.

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., Anttila, K., Trentmann, J., Stengel, M., Fokke Meirink, J., Devasthale, A., Hanschmann, T., Kothe, S., Jääskeläinen, E., Sedlar, J., Benas, N., van Zadelhoff, G.-J., Schlundt, C., Stein, D., Finkensieper, S., Håkansson, N., and Hollmann, R.: CLARA-A2: the second edition of the CM SAF cloud and radiation data record from 34 years of global AVHRR data, *Atmos. Chem. Phys.*, 17, 5809-5828, 2017, doi:[10.5194/acp-17-5809-2017](https://doi.org/10.5194/acp-17-5809-2017).

Karlsson, K.-G.; Håkansson, N.; Mittaz, J.P.D.; Hanschmann, T.; **Devasthale, A.**: Impact of AVHRR Channel 3b Noise on Climate Data Records: Filtering Method Applied to the CM SAF CLARA-A2 Data Record. *Remote Sens.* **2017**, 9, 568, doi: [10.3390/rs9060568](https://doi.org/10.3390/rs9060568).

Kothe, S.; Pfeifroth, U.; Cremer, R.; Trentmann, J.; **Hollmann, R.**: A Satellite-Based Sunshine Duration Climate Data Record for Europe and Africa. *Remote Sens.* **2017**, 9, 429 doi: [10.3390/rs9050429](https://doi.org/10.3390/rs9050429).

Urbain, M.; Clerbaux, N.; Ipe, A.; Tornow, F.; **Hollmann, R.**; **Baudrez, E.**; Velazquez Blazquez, A.; Moreels, J. The CM SAF TOA Radiation Data Record Using MVIRI and SEVIRI. *Remote Sens.* **2017**, 9, 466, doi: [10.3390/rs9050466](https://doi.org/10.3390/rs9050466).

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