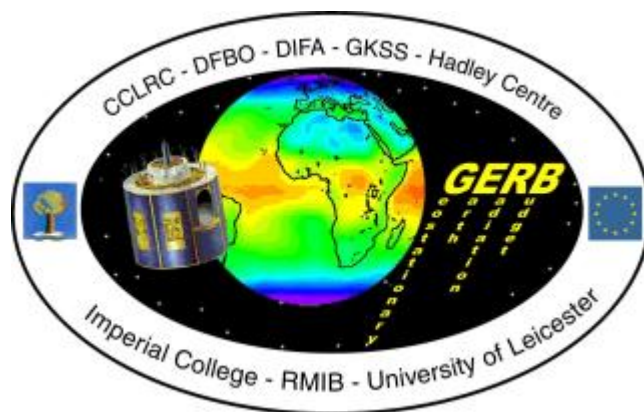


The GERB project at RMIB

- [Team Members](#)
- [Publications - Conferences and Meetings](#)
- [FTP site - GERB intranet \(login\)](#)
- [Related Links and Collaborations](#)

The [Geostationary Earth Radiation Budget \(GERB\) Project](#) project is carried out in the [Remote Sensing from Space](#) group at RMIB that is also active in the [Climate Monitoring SAF \(CM SAF\)](#), the [EarthCARE](#) Earth Explorer, and the [Copernicus Climate Change Service \(C3S\)](#).



Geostationary Earth Radiation Budget (GERB) Project

- [Introduction - Instrument - Science Team](#)
- [Processing Overview - Documentation](#)
- [Content - Formats - Satpy reader](#)
- [Data Access \(ROLSS\) - RMIB GERB Processing Information](#)
- [SEVIRI data](#)

News

December 2023

The Royal Observatory of Belgium (ROB) and the Vrije Universiteit Brussel (VUB) jointly offer a Long-term senior research position to develop the Earth Climate Observatory space mission for the measurement of the most Essential of all Climate Variables: the Earth Energy Imbalance.

We offer: - a long term full-time senior research position consisting of a halftime position at the ROB and a halftime position at the VUB - the possibility to contribute to the development of an innovative space mission with high societal relevance devoted to an improved understanding of climate change

and monitoring of the implementation of the Paris Climate Agreement.

We require: - a PhD in applied sciences or sciences obtained not longer than 12 years ago - expertise or interest in optics and/or space instrumentation and/or climate change

The interested candidates should sent their application by 15 January to: steven.dewitte@oma.be and francis.berghmans@vub.be

More details can be found in the full job description in annex.

October 2023

Presentation about the GERB-4 dataset at the CERES Science Team Meeting:

https://ceres.larc.nasa.gov/documents/STM/2023-10/10_Clerbaux.pdf

September 2023

There were two presentations mentioning GERB at EUMETSAT 2023:

- Xinyue Wang, Kevin Wolf, Grégoire Dannet, Olivier Boucher, Nicolas Bellouin, “Radiative forcing of a contrail cirrus outbreak over Western Europe in June 2020”, using GERB to validate a radiative transfer model
- Pierre De Buyl, Edward Baudrez, Christine Aebi, Nicolas Clerbaux, Johan Moreels, Jacqueline E. Russell, “Geostationary Earth Radiation Budget (GERB): status update and user-friendly access to GERB data using Python”, discussing the status of the GERB-4 data, and a new Python reader for user-friendly access to the GERB data

October 2022

The “*Earth Radiation Budget Workshop*” is on-going, in Hamburg, Germany. The GERB team is presenting its latest achievements.



August 2022

The “Quartz Filter Anomaly” affecting the GERB4 data has been fixed and the GERB4 record (Jan 2018 onward) is under reprocessing. The data is expected to be available in time for presentation at the EUMETSAT 2022 conference in Brussels.

August 2022

The next “*Earth Radiation Budget Workshop*” will be held on October 12-14, 2022, in Hamburg, Germany. This workshop is the join meeting of the CERES, ScaRaB, GERB, and Libera science teams.

July 2022

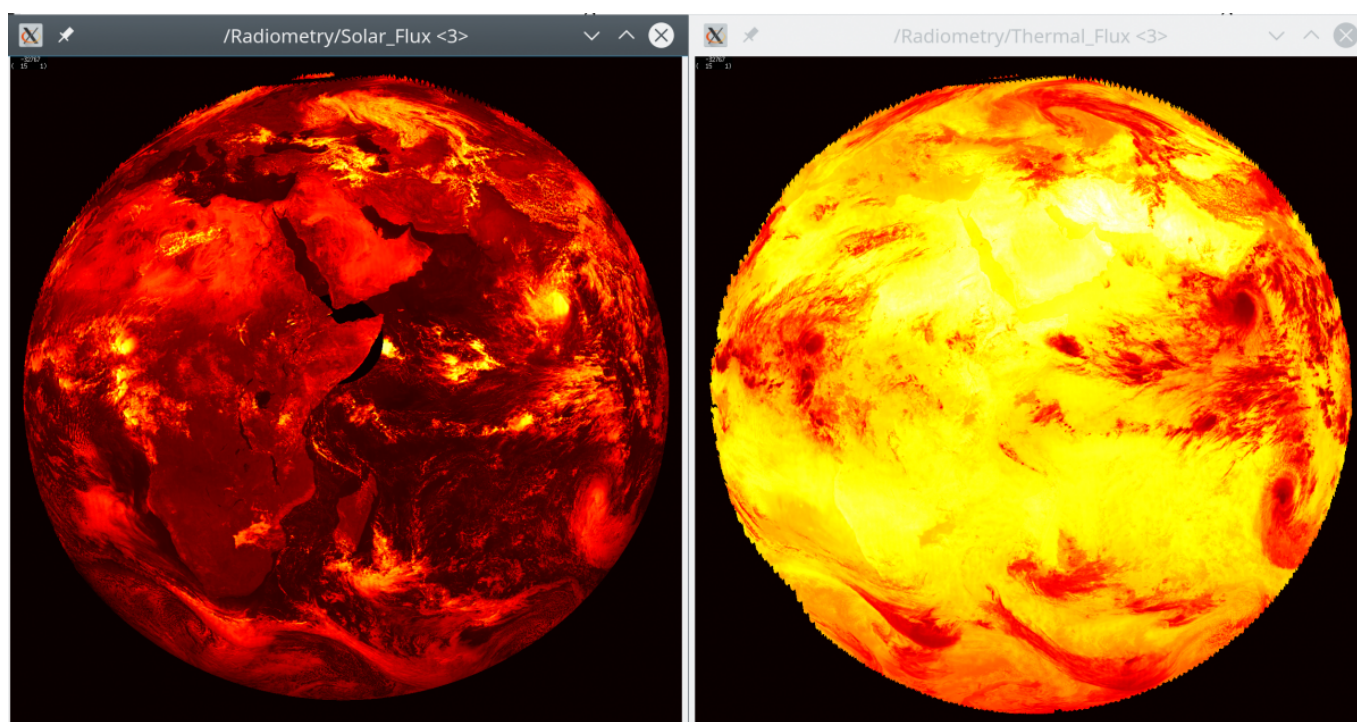
Presentation of the GERB record at the ***International Radiation Symposium (IRS)** @ Thessaloniki, Greece: “Preliminary Validation of 18 Years of Broadband Radiation Data from the Geostationary Earth Radiation Budget (GERB) Instruments”, Christine Aebi [Presentation \(PDF\)](#)

June 2022


As part of the MSG2 payload, the **GERB1** instrument is now operational over the Western part of the Indian Ocean (subsattellite longitude of 45.5° East). The **GERB1** Indian Ocean record starts on 9th May 2022 and is processed in near real time with the version tag V007.

Data available for evaluation via the ROLSS: https://gerb.oma.be/doku.php?id=data_access


As illustration, the HR solar (left) and thermal (right) fluxes on 10 May 2022 at 09:00 UTC.



September 2021



-  T. Akkermans and N. Clerbaux (2021): Retrieval of Daily Mean Top-of-Atmosphere Reflected Solar Flux Using the Advanced Very High Resolution Radiometer (AVHRR) Instruments, *Remote Sensing*, 13(18), 3695; doi:10.3390/rs13183695

April 2021

-  A. Payez, S. Dewitte, and N. Clerbaux (2021): Dual View on Clear-Sky Top-of-Atmosphere Albedos from Meteosat Second Generation Satellites, *Remote Sensing*, 13(9), 1655; doi:10.3390/rs13091655.

March 2020

Publication of 2 papers in “Remote Sensing” describing the TOA radiation products from AVHRR, one for the shortwave, one for the longwave. These works will be basis to future release of TOA radiation products in the Climate Monitoring SAF CLARA-A3 Climate Data Record.

-  T. Akkermans and N. Clerbaux (2020): Narrowband-to-Broadband Conversions for Top-of-Atmosphere Reflectance from the Advanced Very High Resolution Radiometer (AVHRR), *Remote Sensing*, 12(2), 305; doi:10.3390/rs12020305.
-  N. Clerbaux, T. Akkermans, E. Baudrez, A. Velazquez Blazquez, W. Moutier, J. Moreels and C. Aebi (2020): The Climate Monitoring SAF Outgoing Longwave Radiation from AVHRR, *Remote Sensing*, 12(2), 929; doi:10.3390/rs12060929.

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