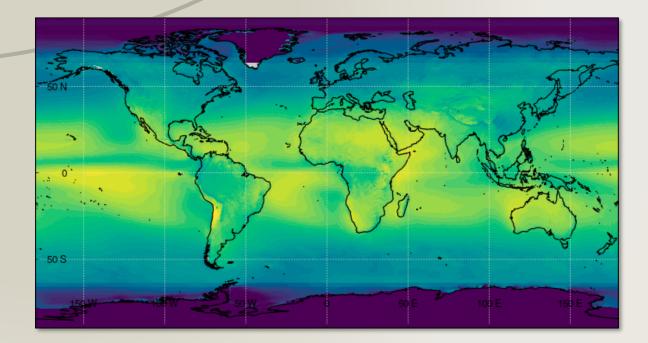
Welcome to the CM SAF Short Course CLARA – A new Climate Data Record on Earth Radiation Budget



EUMETSAT CMSAF

If you have **technical issues**, please send a message in the **zoom chat** box to **Support**. For **Q&A**: go to Slido.com – event code: **#EUMSC43**

The session will start at 12:00 UTC



For technical issues: Use the zoom chat

• For Q&A: go to Slido.com – event code: #EUMSC43



All **material** will be shared after the course on course page:

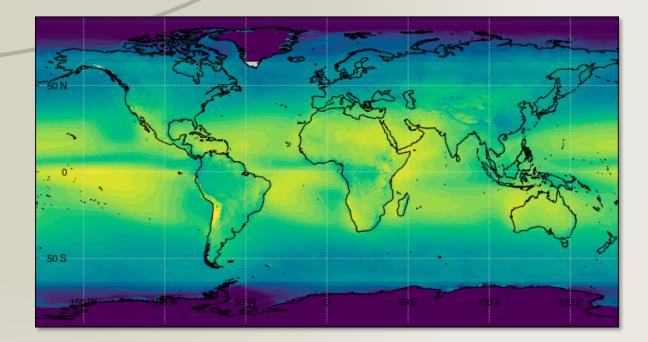
https://training.eumetsat.int/course/view.php?id=488

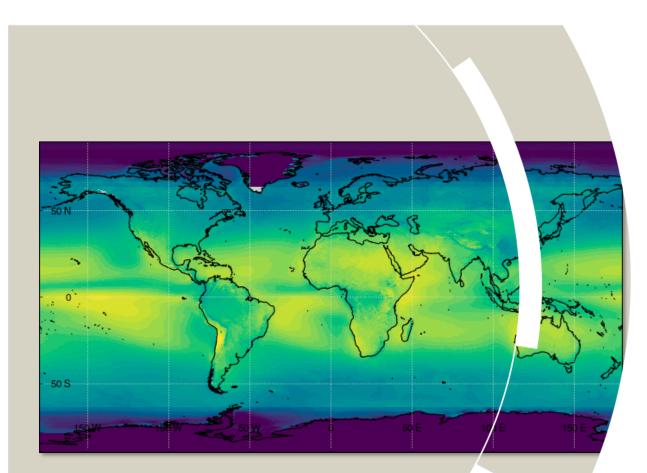
Welcome to the CM SAF Short Course CLARA – An extended Data Record on Cloud and Radiation Properties



EUMETSAT CMSAF CLIMATE MONITORING

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Welcome and Introduction (Christine Träger-Chatterjee, EUMETSAT)

The new version of the CLARA data record – Overview (Karl-Göran Karlsson, CM SAF/SMHI) Q&A

Clouds (Karl-Göran Karlsson, CM SAF/SMHI) Q&A

Radiation at Top of Atmosphere (Tom Akkermans, CM SAF/RMIB) Q&A

Surface Radiation (Jörg Trentmann, CM SAF/DWD) Q&A

Surface Albedo (Aku Riihelä, CM SAF/FMI)

Ordering Data from CM SAF (Steffen Kothe, CM SAF/DWD) Q&A

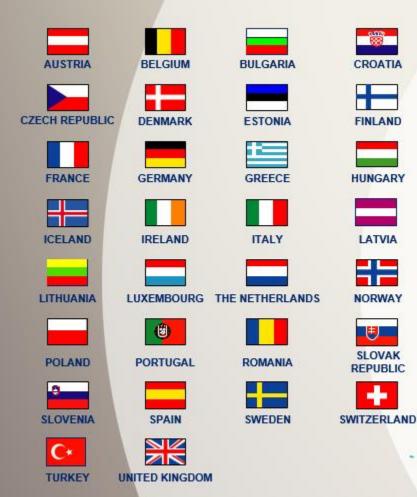
Using the data – CM SAF R Toolbox (Steffen Kothe, CM SAF/DWD) Q&A

Using the data – Jupyter Notebooks (Antonio Vecoli, EUMETSAT/MEEO) Q&A

Wrap up and closing (14:00 UTC)

EUMETSAT is an intergovernmental Organization

www.eumetsat.int



Tasks

- Develop, maintain, exploit European systems of meteorological satellites, taking into account as far as possible the recommendations of WMO.
- Contribute to operational climate monitoring and the detection of global climatic changes.



SENTINEL-3A & -3B (98.7° incl.) Low Earth, sun-synchronous orbit Copernicus satellites delivering marine data services from 814km altitude

JASON-3 (63° incl.)

Low Earth, non-synchronous orbit Copernicus ocean surface topography mission (shared with CNES, NOAA, NASA and Copernicus)

Sentinel-6 Michael Freilich (66° incl.) Low Earth, non-synchronous orbit Copernicus ocean surface topography mission (shared with NASA, NOAA, ESA and Copernicus with support from CNES)

Jason-3 Sentinel-3A Sentinel-6 **Micheal Freilich**

1eteosat-11

METEOSAT-10, -11 Geostationary orbit Meteosat Second Generation

Two-satellite system Full disc imagery mission (15 mins) (Meteosat-11 (0°)) Rapid scan service over Europe (5 mins) (Meteosat-10 (9.5° E))

Sentinel-3B

METEOSAT-9 (45.5° E)

Geostationary orbit

Meteosat Second Generation providing Indian Ocean data coverage

METOP-B & -C (98.7° incl.)

Low Earth, sun-synchronous orbit EUMETSAT Polar System (EPS)/ Initial Joint Polar System

MTG-I1

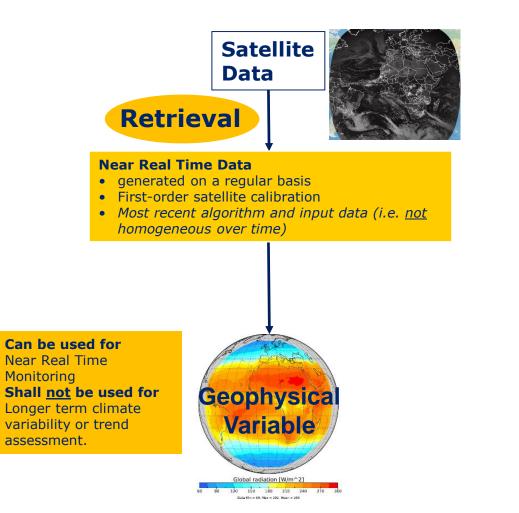
Geostationary orbit Meteosat Third Generation imaging mission, currently in commissioning phase

Satellite Application Facilities

- EUMETSAT has a network of different Satellite Application Facilities (SAFs)
- SAFs are dedicated centres of excellence for processing satellite data
 - research, development and operational activities
 - each SAF focusses on specific user communities or application areas

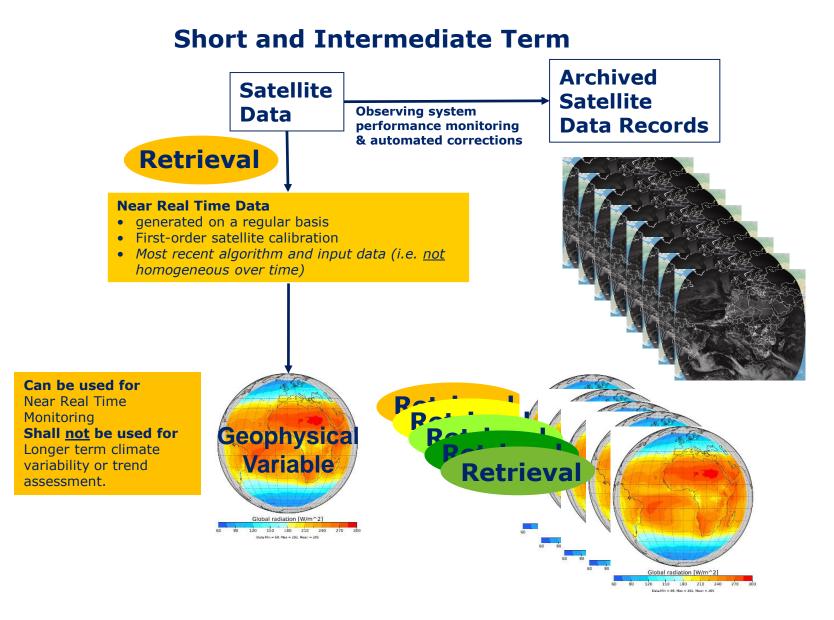


 Each SAF is a consortium of entities from EUMETSAT member states



Space based Climate Monitoring – Challenges

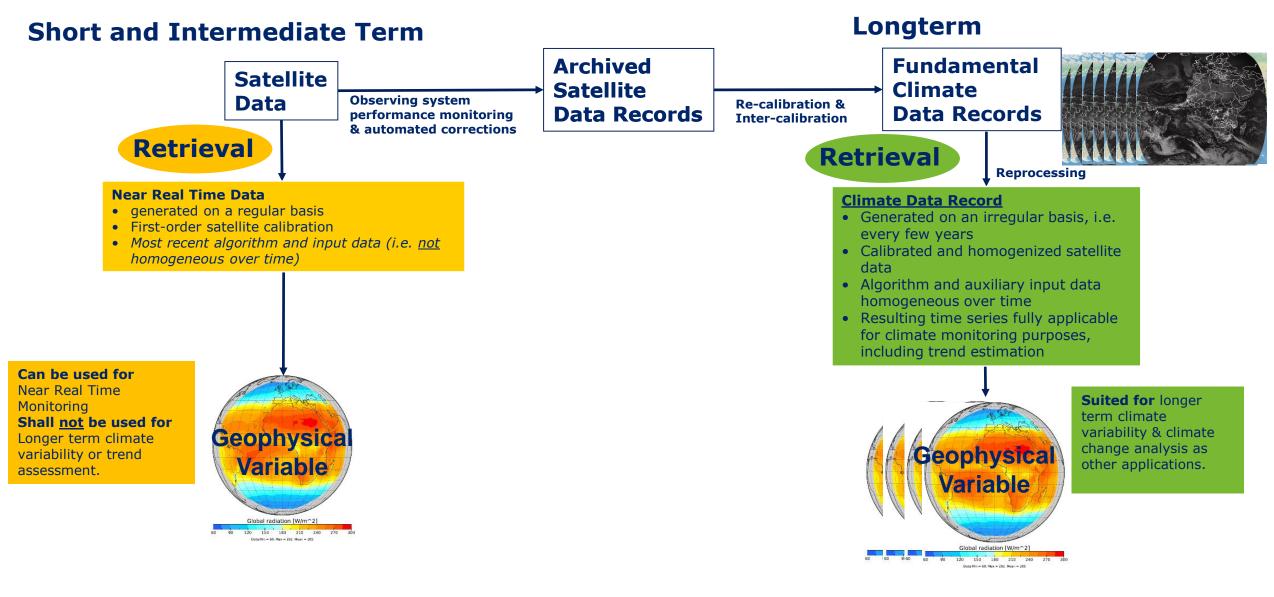
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Longterm

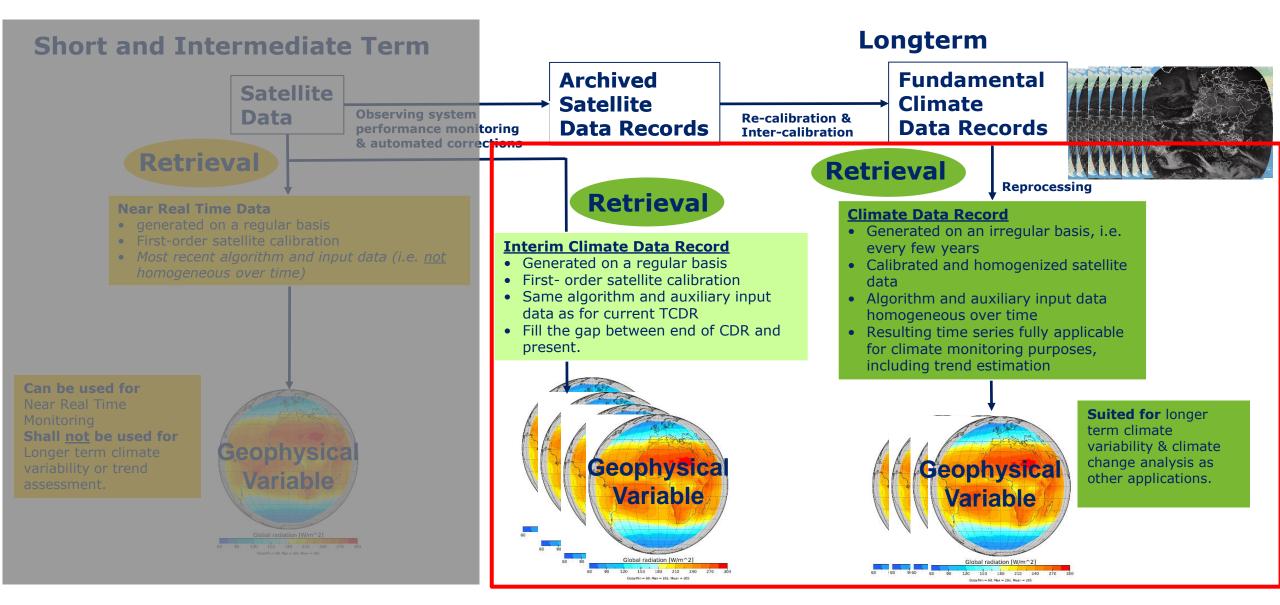
Space based Climate Monitoring – Challenges

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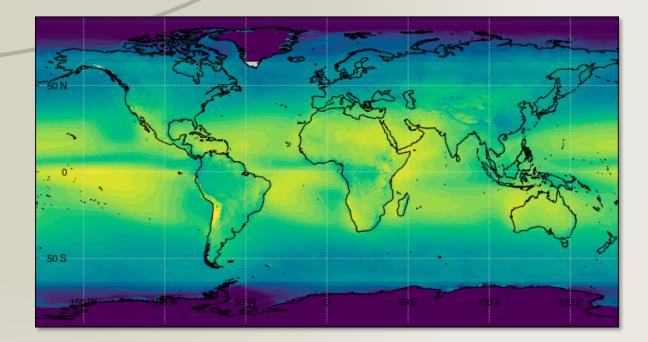


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for more in-depth courses

- 12 Oct 16 Nov (every Thursday) different times Data Access Services Customise products to your needs with EUMETSAT Data Tailor
- 18 Oct 2023 12 UTC Data Access Services How to use the Jupyter Notebooks from the EUMETSAT Data Access Services *
- 23 Nov 2023 12 UTC Data Access Services How to use the EUMETSAT Data Access Client (EUMDAC) through Command Line
 Interface and as a Python library*

* 30 minutes webinar

https://training.eumetsat.int/

 \rightarrow Events \rightarrow Short Courses