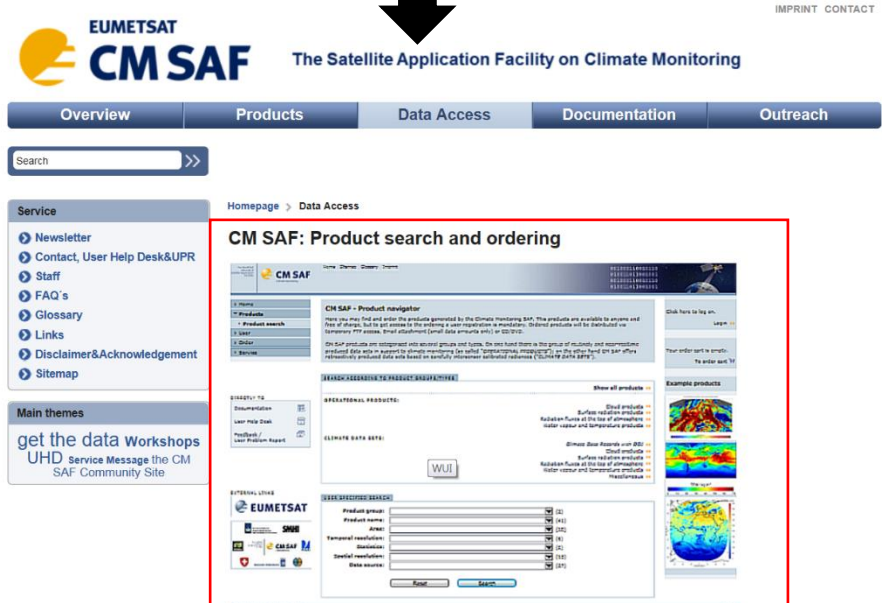
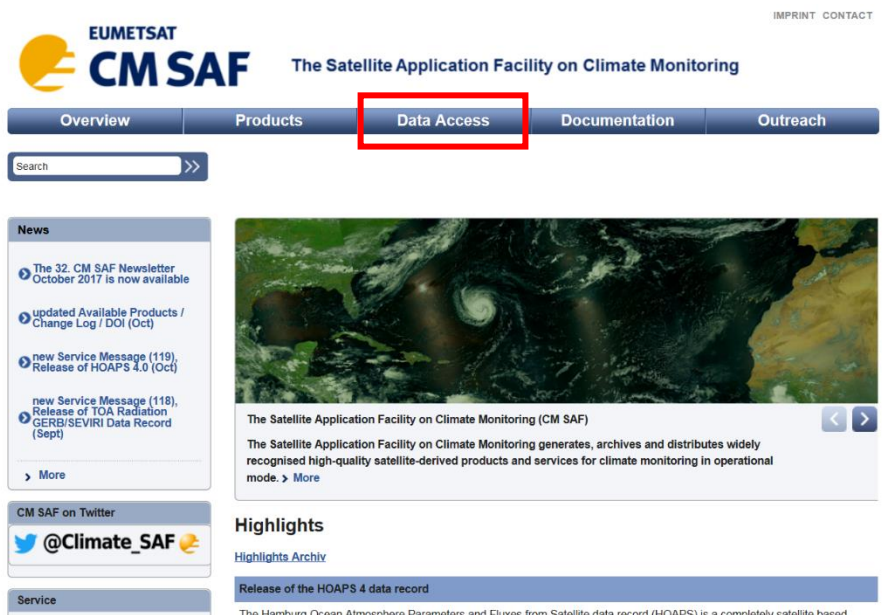


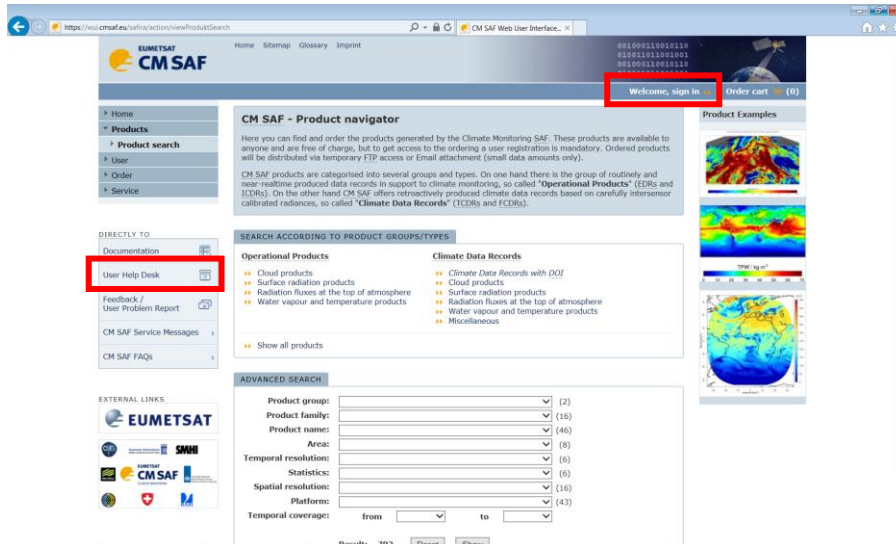
Ordering CM SAF Data

1. Register / Sign in

- Go to the CM SAF web user interface (wui): on the CM SAF webpage www.cmsaf.eu click on “Data Access” in the menu bar



- Clicking on the frame in the middle (highlighted in red) will get to <https://wui.cmsaf.eu>.
- You can also go directly to <https://wui.cmsaf.eu>.



- If you are not a registered CM SAF user, yet, please register:
- Click on “Welcome, sign in” in the upper right corner of the page and follow the instructions.
- If you have a username and password, you can sign in, browse through the data and order.
- In case of questions or problems use the course forum or contact the CM SAF User Help Desk. You will find the contact details by clicking on “User Help Desk” on the left hand of the page.

2. Browse through the data available

- Sign in using your username and password
- From the menu on the left hand side chose “Products” and click on “Product search”
- Select “Search and order products”

CM SAF - Data access

The following pages provide the opportunity to search and order CM SAF products and to get detailed information about these products. The data provision is free of charge but a user registration is mandatory to get access.

To all *Newcomers*: Please take notice of the product sample files, the auxiliary data as well as the add on products and provided tools below.

Search and order products

PRODUCT EXAMPLES

Almost all CM SAF Thematic Climate Data Records (TCDRs) and all Fundamental Climate Data Records (FCDRs) are provided in NetCDF. However, most of the CM SAF operational Environmental Data records (EDRs) are provided as HDF5. As many users are interested to receive the data records in different formats or projections, CM SAF offers a basic set of conversions/transformations on its products due to integrating some cdo functionalities into our Web User Interface (for more information on cdo, please follow the tools link below). Besides the pure conversion of CM SAF HDF5-files into NetCDF format, we offer the opportunity to interpolate onto a regular latitude/longitude grid and/or to select a sub-domain.

Below you may find some product example files to get a first impression of what you will receive in case of ordering:

- Fractional Cloud Cover, monthly mean - CFChm201003010000320070023201MA.nc (compressed)
- Vertical integrated Water Vapour, daily mean - HTWdm200806110000300110017301GL.hdf
- Surface Albedo, weekly mean - SALwm200806020000310070010901CA.hdf

If your preferred product format is not HDF5 / NetCDF or you are interested in other grid types, CM SAF recommends to install cdo and to manipulate the products for yourself. For cdo installation instructions and some examples for the use with CM SAF data please follow the tools link below.

AUXILIARY DATA

CM SAF - Product navigator

Here you can find and order the products generated by the Climate Monitoring SAF. These products are available to anyone and are free of charge, but to get access to the ordering a user registration is mandatory. Ordered products will be distributed via temporary FTP access or Email attachment (small data amounts only).

CM SAF products are categorised into several groups and types. On one hand there is the group of routinely and near-real-time produced data records in support to climate monitoring, so called “Operational Products” (EDRs and ICDRs). On the other hand CM SAF offers retroactively produced climate data records based on carefully inter-sensor calibrated radiances, so called “Climate Data Records” (TCDRs and FCDRs).

SEARCH ACCORDING TO PRODUCT GROUPS/TYPES

Operational Products	Climate Data Records
<ul style="list-style-type: none"> • Cloud products • Surface radiation products • Radiation fluxes at the top of atmosphere • Water vapour and temperature products 	<ul style="list-style-type: none"> • Climate Data Records with DOI • Cloud products • Surface radiation products • Radiation fluxes at the top of atmosphere • Water vapour and temperature products • Miscellaneous

ADVANCED SEARCH

Product group: (2)

Product family: (17)

Product name: (58)

Area: (14)

Temporal resolution: (6)

Statistics: (6)

Spatial resolution: (20)

Platform: (43)

Temporal coverage: from to

Result: 1082

- There are several options how to browse through the products. Play around to figure out what works best for you.

- **IMPORTANT:**

There are two products groups:

- **Operational Products / Environmental Data Records** (two expressions, referring the same product group)
- **Climate Data Records**

The difference between **Operational Products / Environmental Data Records** and **Climate Data Records** is explained in section 1 “Satellite based Climate Monitoring”!

- Depending on your selection you will be shown a list of products to which your selection applies. The table looks as follows:

The screenshot shows the EUMETSAT CM SAF website interface. At the top, there is a navigation bar with 'Home', 'Sitemap', 'Glossary', and 'Imprint'. The user is logged in as 'Christine Traeger-Chatterjee' and has an empty order cart. The main content area is titled 'List of products' and contains a table with the following columns: Name, Version, Data source, Time, Statistics, and Area. The table lists 20 rows of products, all of which are 'CFC - Fractional cloud cover'. The data sources include COMET ed. 1.0, CLARA-A ed. 2.0, and AVHRR on various satellites (SEVIRI, METEOSAT, polar orbiting satellites) and sensors (METOP-A, METOP-B, NOAA-07). The time resolutions range from Daily to Monthly. The statistics provided are Mean diurnal-cycle, Mean, and Mean. The areas covered include MSG full disk (Europe, Africa, Atlantic Ocean), Global, Northern Polar Region, and Southern Polar Region. Each row has a magnifying glass icon and a trash icon in the rightmost column.

Name	Version	Data source	Time	Statistics	Area
CFC - Fractional cloud cover	COMET ed. 1.0	MVIRI/SEVIRI on METEOSAT	Monthly	Mean diurnal-cycle	MSG full disk (includes Europe, Afrika, Atlantic Ocean)
CFC - Fractional cloud cover	COMET ed. 1.0	MVIRI/SEVIRI on METEOSAT	Monthly	Mean	MSG full disk (includes Europe, Afrika, Atlantic Ocean)
CFC - Fractional cloud cover	COMET ed. 1.0	MVIRI/SEVIRI on METEOSAT	Hourly	Mean	MSG full disk (includes Europe, Afrika, Atlantic Ocean)
CFC - Fractional cloud cover	COMET ed. 1.0	MVIRI/SEVIRI on METEOSAT	Daily	Mean	MSG full disk (includes Europe, Afrika, Atlantic Ocean)
CFC - Fractional cloud cover	CLARA-A ed. 2.0	AVHRR on polar orbiting satellites	Monthly	Mean	Global
CFC - Fractional cloud cover	CLARA-A ed. 2.0	AVHRR on polar orbiting satellites	Monthly	Mean	Northern Polar Region
CFC - Fractional cloud cover	CLARA-A ed. 2.0	AVHRR on polar orbiting satellites	Monthly	Mean	Southern Polar Region
CFC - Fractional cloud cover	CLARA-A ed. 2.0	AVHRR on polar orbiting satellites	Daily	Mean	Global
CFC - Fractional cloud cover	CLARA-A ed. 2.0	AVHRR on polar orbiting satellites	Daily	Mean	Northern Polar Region
CFC - Fractional cloud cover	CLARA-A ed. 2.0	AVHRR on polar orbiting satellites	Daily	Mean	Southern Polar Region
CFC - Fractional cloud cover	CLARA-A ed. 2.0	AVHRR on METOP-A	Monthly	Mean	Global
CFC - Fractional cloud cover	CLARA-A ed. 2.0	AVHRR on METOP-A	Daily	Mean	Global
CFC - Fractional cloud cover	CLARA-A ed. 2.0	AVHRR on METOP-B	Monthly	Mean	Global
CFC - Fractional cloud cover	CLARA-A ed. 2.0	AVHRR on METOP-B	Daily	Mean	Global
CFC - Fractional cloud cover	CLARA-A ed. 2.0	AVHRR on NOAA-07	Monthly	Mean	Global
CFC - Fractional cloud cover	CLARA-A ed. 2.0	AVHRR on NOAA-07	Daily	Mean	Global
CFC - Fractional cloud cover	CLARA-A ed. 2.0	AVHRR on NOAA-07	Monthly	Mean	Global

- It provides with the following information:
 - Name:** name of the variable, e.g. CFC – Fractional Cloud Cover
 - Version:** name and of the data record. In case of an Operational Product / Environmental Data Record it is “EDR”
 - Data source:** The instruments / sensors (incl. the respective satellites) that are used to produce the record
 - Time:** The time resolution, i.e. hourly, daily, monthly values
 - Statistics:** The statistical value provided, i.e. mean value, mean diurnal cycle, 6-hourly composite, sum
 - Area:** the spatial coverage
- Clicking on the magnifying glasses provides more details, including the time range covered:

Details of product

PRODUCT CHARACTERISTICS

Product group: Climate Data Records
Product family: CLAAS ed. 2.0
Product name: CFC - Fractional cloud cover
Area: MSG full disk (includes Europe, Afrika, Atlantic Ocean)
Temporal resolution: Monthly
Statistics: Mean
Spatial resolution: Latitude/longitude grid (0.05x0.05 degree)
Data source: SEVIRI on MSG
Temporal coverage: 2004-02-01 - 2015-12-01
Version(s): V003
Documentation: [Product User Manual \(PUM\) CLAAS-2](#)
[Validation Report \(VAL\) CLAAS-2](#)
[Algorithm Theoretical Baseline Document \(ATBD\) CLAAS-2](#)
[Algorithm Theoretical Baseline Document \(ATBD\) Cloud Products \(NWC SAF MSG v2012\)](#)
[Algorithm Theoretical Baseline Document \(ATBD\) Cloud Physical Properties \(CPP\)](#)
Citation / DOI: Finkensieper, Stephan; Meirink, Jan-Fokke; van Zadelhoff, Gerd-Jan; Hanschmann, Timo; Benas, Nikolaos; Stengel, Martin; Fuchs, Petra; Hollmann, Rainer; Werscheck, Martin (2016): CLAAS-2: CM SAF Cloud property dAtAsat using SEVIRI - Edition 2, Satellite Application Facility on Climate Monitoring, DOI:10.5676/EUM_SAF_CM/CLAAS/V002, https://doi.org/10.5676/EUM_SAF_CM/CLAAS/V002

PRODUCT ADAPTATIONS

The product described above is appropriate for your purposes but you are interested in a different projection, spatial resolution and/or domain? Then check out our new feature: reprojection and interpolation to global latitude/longitude grid and optional cut out of a user-specific sub-domain.

Change projection / spatial resolution / domain >>

- In the “Product Adaptations” box (highlighted here in green) you also have the options to
 - change the projection in which the data are provided to you
 - change the spatial resolution in which the data are provided to you
 - select a subset of the are covered.

Reprojection and interpolation to global latitude/longitude grid and optional cut out of a user-specific sub-domain

CM SAF products are gridded on a product specific area. The type of gridding (i.e. the combination of geographical projection and horizontal resolution) is product specific, too. Here we offer the possibility to reproject products to a regular latitude/longitude projection, to resample the horizontal resolution to user needs and to extract the area to user specific subdomain.

By the following form you can specify the details on how to do this, i.e. the borders of the subdomain and the target horizontal resolution. To process your request we deploy *Climate Data Operators (CDO)* to manipulate the original product.

0.00, 0.00

PRODUCT ADAPTATIONS

Specify the upper, lower, left and right boundaries of the domain to cut out:

80 80
 80 Preview 80
 -80

or use one of the predefined **CORDEX** (Coordinated Regional climate Downscaling Experiment) subdomains:
 -Select Region-

Specify the longitudinal and latitudinal mesh size - to avoid oversampling please pay attention to the original product resolution (see the details below):

Longitude 0.05 X Latitude 0.05

Back to product details

Proceed to time range selection

- In the next step you can select the time range you are interested in:

EUMETSAT CM SAF Home Sitemap Glossary Imprint 001000110010110 010011011001001 001000110010110 010011011001001

Christine Traeger-Chatterjee, Logout Order cart (0)

Specification of time range

Please select the time range for your product order as well as your intended product format. Please be reminded that Climate Data Records are available as NetCDF only.

Furthermore you may decide between uniquely ordering (specification of time range necessary) and standing ordering, i.e. you will receive products on a daily/weekly/monthly basis created on the day before from today onwards until you cancel the standing order; the frequency of data delivery depends on the chosen time resolution of your product. Please note that Climate Data Records cannot be ordered continuously.

Please specify the time range

This product is available from 2004-02-01 to 2015-12-01 (2.9 GB).

Begin: 2004-02-01
End: 2015-12-01

Please choose your preferred product format:

NetCDF4 - Products will be provided in Network Common Data Format v4 (native).

ADD TO ORDER CART

SELECTED PRODUCT

Product group: Climate Data Records
Product family: CLAA5 ed. 2.0
Product name: CFC - Fractional cloud cover
Area: MSG full disk (includes Europe, Afrika, Atlantic Ocean)
Temporal resolution: Monthly
Statistics: Mean
Spatial resolution: Latitude/longitude grid (0.05x0.05 degree)
Data source: SEVIRI on MSG
Temporal coverage: 2004-02-01 - 2015-12-01
Version(s): V003
Documentation: [Product User Manual \(PUM\) CLAA5-2](#)
[Validation Report \(VAL\) CLAA5-2](#)
[Algorithm Theoretical Baseline Document \(ATBD\) CLAA5-2](#)
[Algorithm Theoretical Baseline Document \(ATBD\) Cloud Products \(NWC SAF MSG v2012\)](#)

- Clicking on “Add to order chart” guides you to the screen below, which provides you with an overview on your order chart.

EUMETSAT CM SAF Home Sitemap Glossary Imprint 001000110010110 010011011001001 001000110010110 010011011001001

Christine Traeger-Chatterjee, Logout Order cart (1)

Your current orders

Here you are able to finish your order. To do this we need your preferred product format and way of data transfer. Usually it takes 15 minutes at least and up to some days until you receive your data (depending on the way of transfer, the amount of data and the CPU effort to do the postprocessing). Please take notice of the fact that standing orders and orders larger than 5 MB will always be delivered by ftp.

ORDER TRANSFER

Submit your order

Please consider that the total size of your order is **2.9 GB** which will take approx. **12 minute(s)** to download from CM SAF's FTP server at 4 MB/s transfer speed.

Choose your preferred type of data transfer

FTP - Delivery of data via temporary FTP-Account.
 E-MAIL - Delivery of data via Email attachment.

Please keep in mind that delivery via e-mail attachment is feasible up to 5 MB order order size only; larger orders will be made available for download on our FTP server automatically!

PLACE AN ORDER


ORDER CART

Position	Description	From	To	Size	
1	v003, CFC - Fractional cloud cover, SEVIRI on MSG, Monthly, Mean, MSG full disk (includes Europe, Afrika, Atlantic Ocean)	2004-02-01	2015-12-01	2.9 GB	

CONTINUE BROWSING

Show product search form
 Products
 Show all products

- Click on “Place an order” to order your data.


[Home](#) [Sitemap](#) [Glossary](#) [Imprint](#)

 001000110010110
 010011011001001
 001000110010110
 010011011001001

Christine Traeger-Chatterjee, Logout [Order cart \(0\)](#)

- ▶ Home
- ▶ Products
- ▶ User
- ▼ **Order**
 - ▶ Current orders
 - ▶ Order status
 - ▶ Service

Thank you for your order!

Your order has been stored. Shortly you will get a confirmation via e-mail.

ORDER DETAILS

Position	Description	From	To
1	V003, CFC - Fractional cloud cover, SEVIRI on MSG, Monthly, Mean, MSG full disk (Includes Europe, Afrika, Atlantic Ocean)	2004-02-01	2015-12-01

CONTINUE BROWSING

- ▶ Show product search form
- ▶ Products
- ▶ Show all products





SERVICE

- ▶ Service
- ▶ Order overview
- ▶ Contact our User Help Desk

DIRECTLY TO

- Documentation
- User Help Desk
- Feedback / User Problem Report
- CM SAF Service Messages [▶](#)
- CM SAF FAQs [▶](#)

EXTERNAL LINKS

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- You will then receive:
 - an e-mail confirming your order
 - between approx. 15 minutes and several days (depending on the size of your order) you will receive one (or more) e-mails with instructions on how to download the data.