

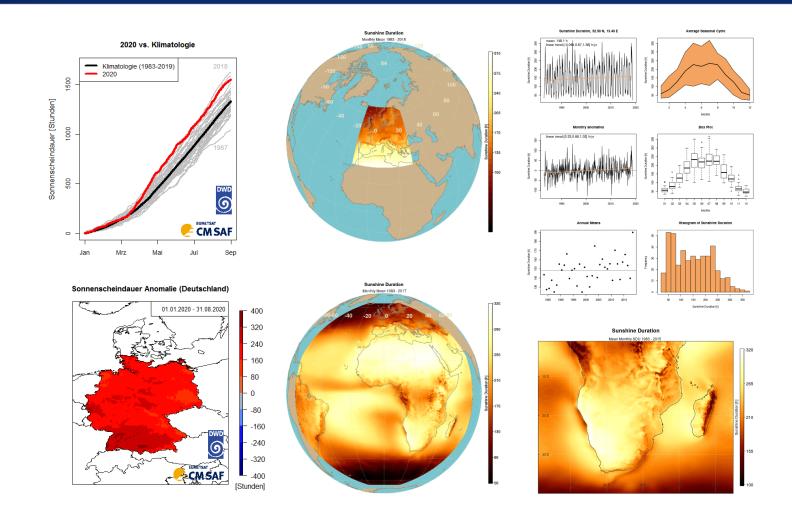
A climate data record of "sunshine": SARAH From order to figure

28 October 2020 Steffen Kothe DWD / CM SAF



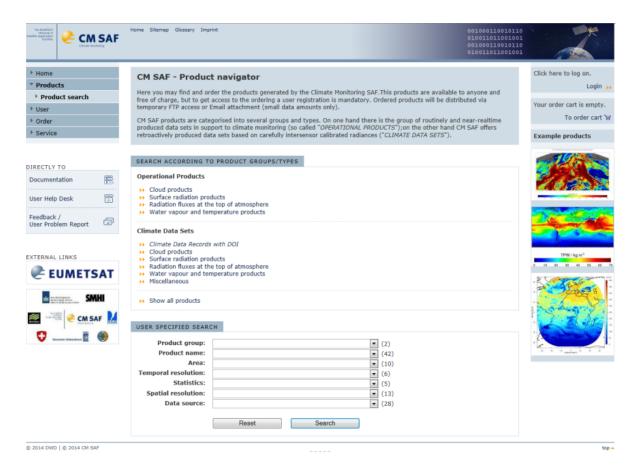
Hands-on session

- Order
- Prepare
- Analyze
- Visualize
- Be Amazed





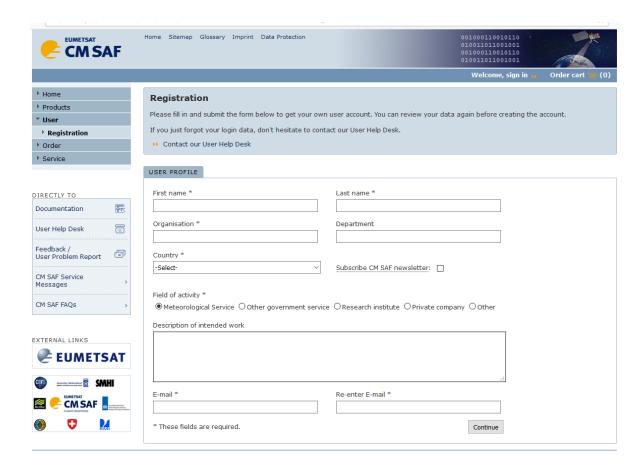
- Registration
- Login
- Product Search
 - Product Search Form
- List of products
- Select Region
- Choose time range
- Place order



https://wui.cmsaf.eu



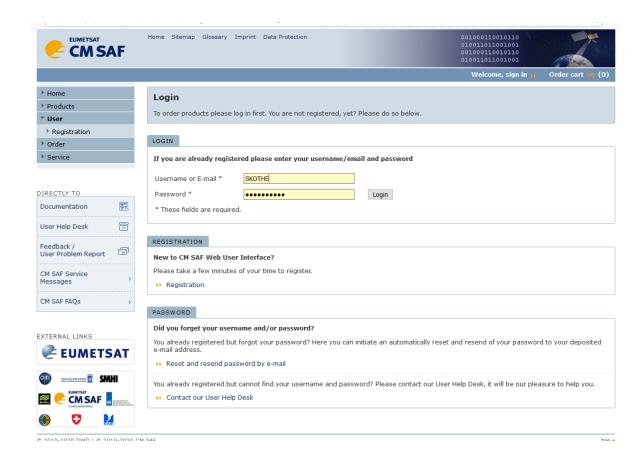
- Web User Interface
 - Registration
 - Login
 - Product Search
 - Product Search Form
 - List of products
 - Select Region
 - Choose time range
 - Place order





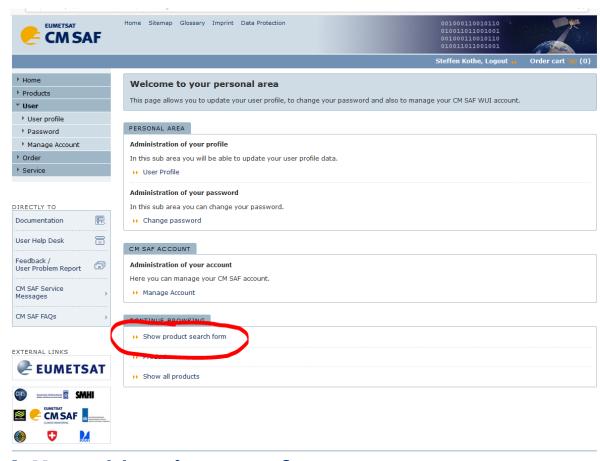
Web User Interface

- Registration
- Login
- Product Search
 - Product Search Form
- List of products
- Select Region
- Choose time range
- Place order





- Registration
- Login
- Product Search
 - Product Search Form
- List of products
- Select Region
- Choose time range
- Place order

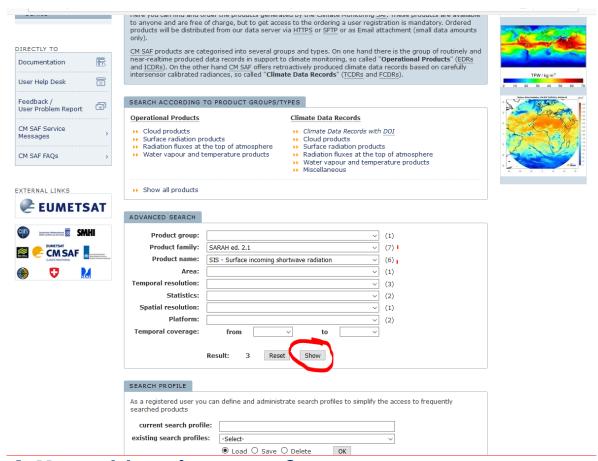


https://wui.cmsaf.eu



Web User Interface

- Registration
- Login
- Product Search
 - Product Search Form
- List of products
- Select Region
- Choose time range
- Place order



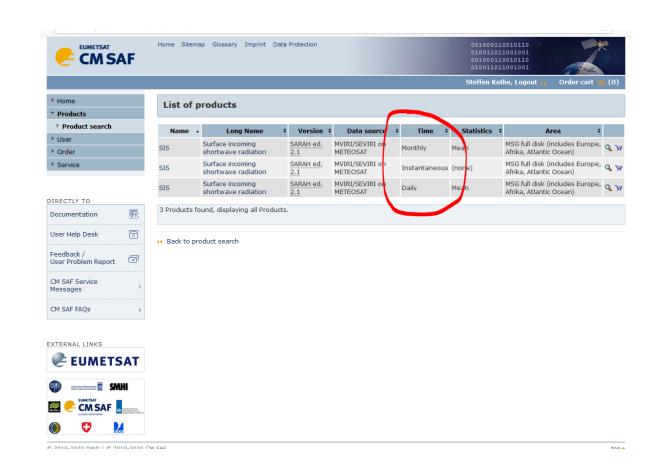
https://wui.cmsaf.eu

Classification



Web User Interface

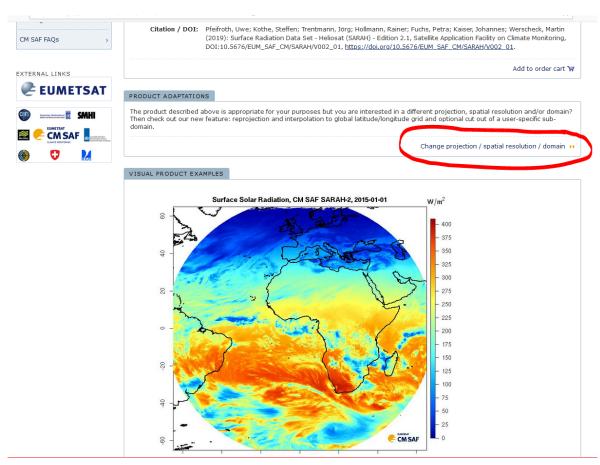
- Registration
- Login
- Product Search
 - Product Search Form
- List of products
- Select Region
- Choose time range
- Place order





Web User Interface

- Registration
- Login
- Product Search
 - Product Search Form
- List of products
- Select Region
- Choose time range
- Place order

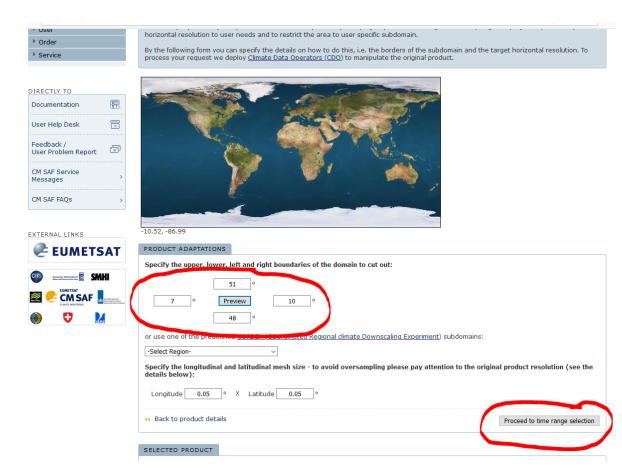


https://wui.cmsaf.eu

Classification



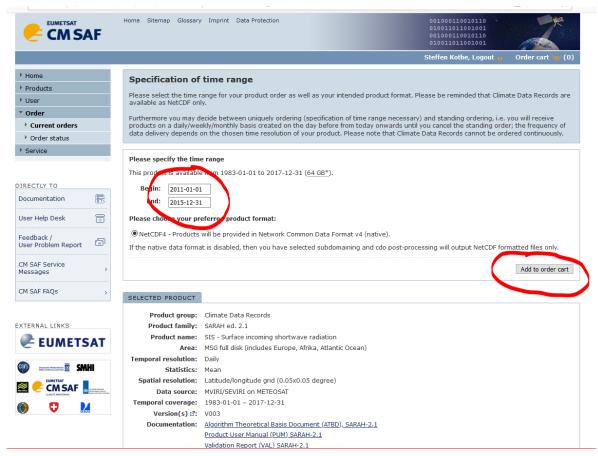
- Registration
- Login
- Product Search
 - Product Search Form
- List of products
- Select Region
- Choose time range
- Place order



https://wui.cmsaf.eu



- Registration
- Login
- Product Search
 - Product Search Form
- List of products
- Select Region
- Choose time range
- Place order

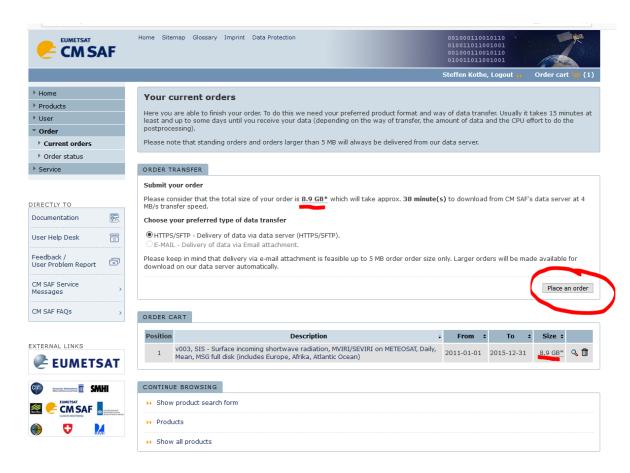


https://wui.cmsaf.eu



Web User Interface

- Registration
- Login
- Product Search
 - Product Search Form
- List of products
- Select Region
- Choose time range
- Place order





Work with the data

- CM SAF provides CM SAF R Toolbox for free
- No R or scripting experiences needed





The CM SAF R TOOLBOX 3.0.0 -- 'Share and Enjoy'

The intention of the CM SAF R Toolbox is to help you using CM SAF NetCDF formatted data

This includes:

- 1. Preparation of ordered CM SAF data files.
- 2. Analysis of prepared CM SAF data.
- 3. Visualization of the results.

To begin, choose a .tar file or a .nc file in the prepare section or jump right in and analyze or visualize a .nc file.

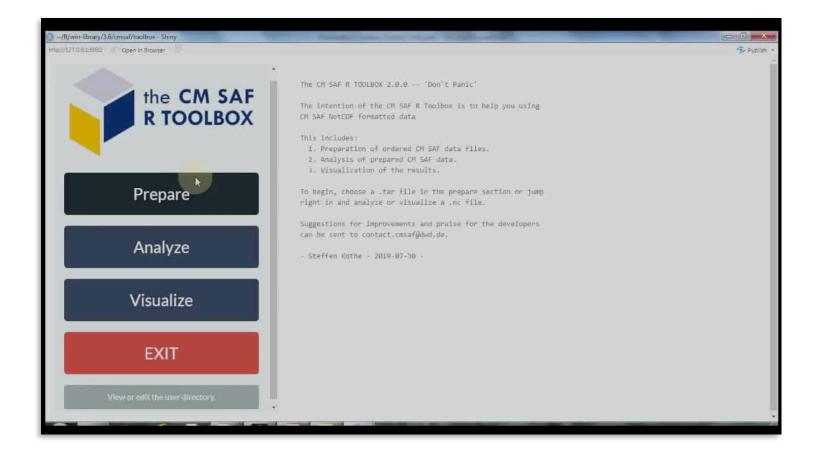
Suggestions for improvements and praise for the developers can be sent to contact.cmsaf@dwd.de.

- Steffen Kothe - 2020-07-24 -

CM SAF R Toolbox

Prepare

Preparation of ordered CM SAF data (extract, choose time & region, merge)

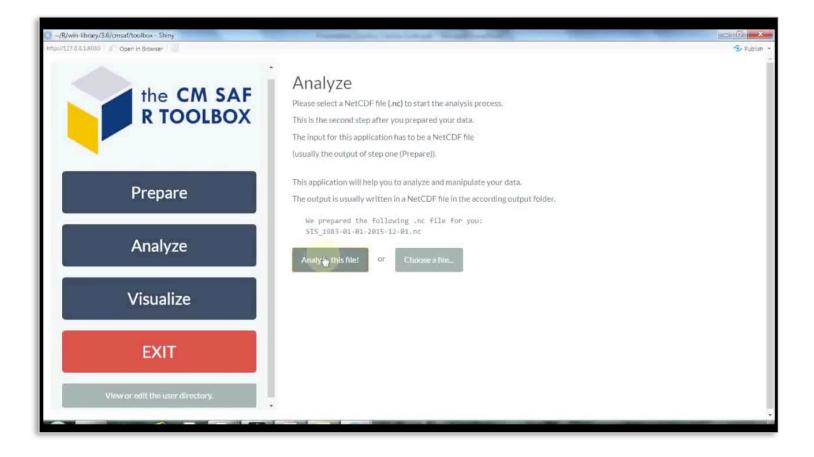




CM SAF R Toolbox

Analyze

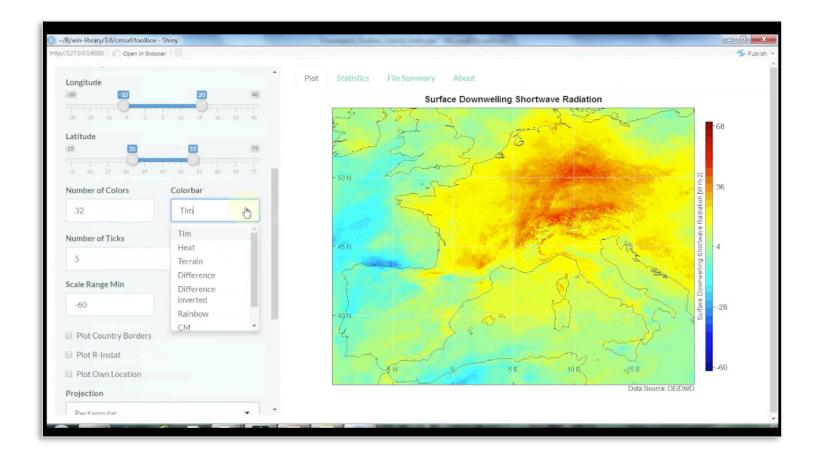
 Analysis and manipulation of CM SAF NetCDF data



CM SAF R Toolbox

Visualize

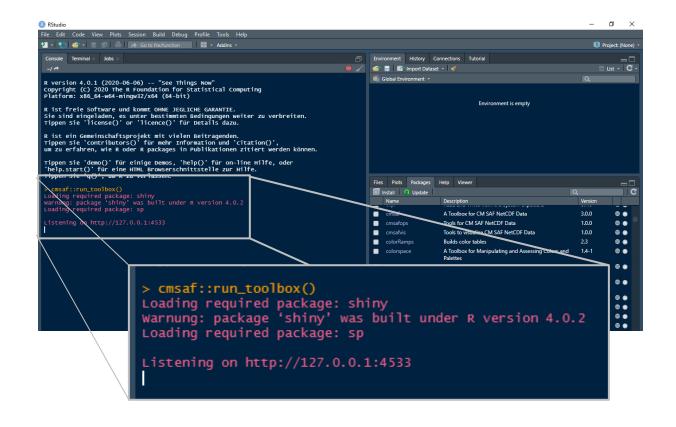
 Easy visualization of CM SAF data



How to start the CM SAF R Toolbox

- Start Rstudio
 - cmsaf::run_toolbox()
 - Have fun

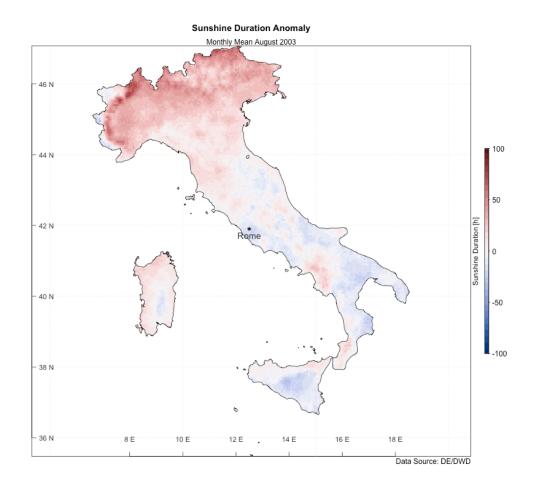
www.cmsaf.eu/R_toolbox





Hands-on session

- Explore our SARAH data
- Use the CM SAF R Toolbox or any other tool you like
- Work in your own pace
 - Create a figure of SARAH data
 - More advanced: Create an anomaly for your country or city



Now it's your turn...

Further information on Moodle: https://training.eumetsat.int/course/view.php?id=378

If you wish, please share your results on padlet: https://padlet.com/CMSAF/cmsaf_padlet

The session continues at 15:15 UTC.