



# the CM SAF R Toolbox Cheat Sheet

#### #1 From tar to no

## **Background**

### **Network Common Data Form**

NetCDF (.nc) is a data format that supports the creation, access, and sharing of array-oriented scientific data.

#### **Tarball**

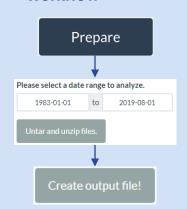
tar is a computer software utility for collecting many files into one archive file.

#### **Web User Interface**

Ordered CM SAF data will be provided in form of a .tar-file including one NetCDF file per time step.



## Workflow



Click on **Prepare** and choose a .tar-file (e.g., ORD12345.tar).

**Select a date range** (optional): Click the *Untar* button to start the process.

**Create a NetCDF**: Select your region of interest (optional). Clicking the *Create* button will give one merged NetCDF file.

#### Good to know

- CM SAF data can be downloaded for free via <a href="https://wui.cmsaf.eu">https://wui.cmsaf.eu</a>
- .tar-files with the same order number are handled as one (e.g., ORD12345.tar, ORD12345\_2.tar, ...)
- File merging can also be done in R (type: ?cmsaf::box\_mergetime)

## **Results**

Start for the *Analyze* step is one NetCDF file including all time steps.

NetCDF data contain lots of metadata – data that provides information about the data.

Check out the metadata by using the Visualize step in the File Summary tab.

Further adaptations of your file can easily be done by help of the Toolbox. Explore the possibilities!



NetCDF Metadata