CLAAS – A Climate Data Record of Cloud Properties

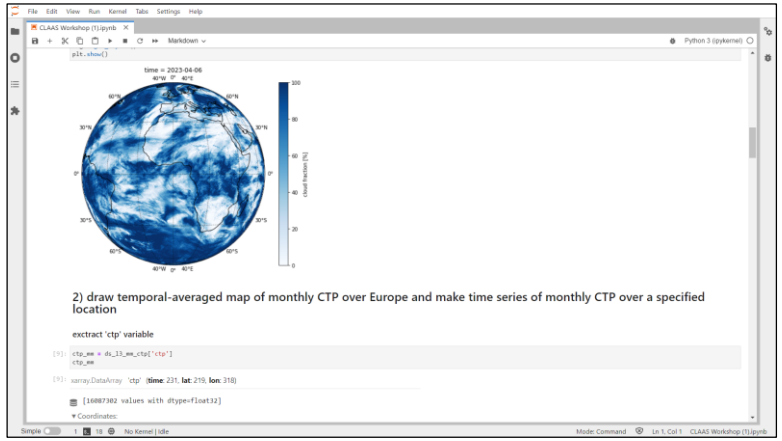
EUMETSAT

EUMETSAT CM SAF CLIMATE MONITORING

HANDS-ON SESSION : From Data download to Data Visualization/Analysis

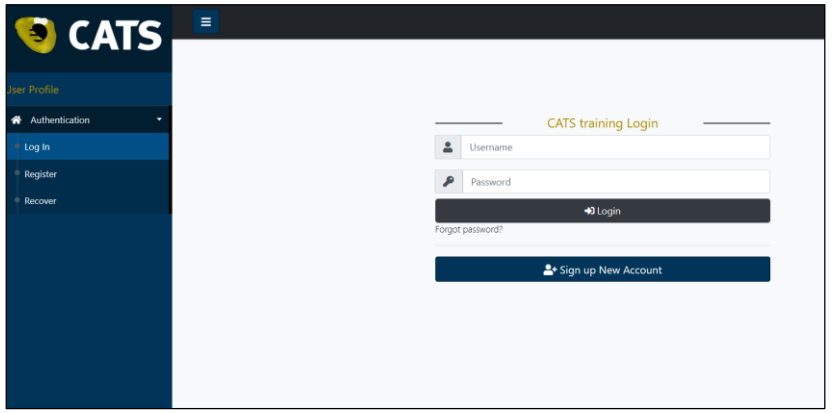
Option #1: Local machine

- Download the CLAAS Hands-on Jupyter Notebook and the .YAML file or the list of required libraries from this LINK
- Upload the notebook on the Jupyter instance of your local machine
- Run the notebook step by step and complete the tasks in the Hands-on Section



Option #2: Remote Server

- Sign up your own account for the online Jupyter environment at https://login.cats.adamplatform.eu
- Authenticate your registration in the received email.
- Go to this LINK, type your credential, then enter the platform: you can now open the notebook and follow the instructions.



Index of /data/isolodov/CLAAS3_workshop/

https://public.cmsaf.dwd.de/data/isolodov/CLAAS3_workshop/

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CLAAS_Short_Course_19042023_final.ipynb	19-Apr-2023 11:34	4156791
cfc_2023-04-06-2023-04-06.nc	14-Apr-2023 14:47	6600503
claas_sc_jupyter_env.yaml	18-Apr-2023 16:12	8743
claas_short_course_python_packages.txt	18-Apr-2023 16:16	197
cph_mmdc_2004-01-01-2023-03-01.nc	14-Apr-2023 14:47	224103296
ctp_2004-01-01-2023-03-01.nc	14-Apr-2023 14:47	32620882

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Markdown | Python 3 (ipykernel)

CLAAS - A Climate Data Record of Cloud Properties

19 April 2023 - Online Short Course

Using the data – Jupyter Notebooks

Introduction

This notebook

- demonstrates how to load CLAAS-3 data into a jupyter notebook;
- shows how to handle CLAAS-3 products and extract parameters from the data.
- provides examples for plotting and analysing CLAAS-3 products.

Link to this notebook, used files and list of python pakages:

https://public.cmsaf.dwd.de/data/isolodov/CLAAS3_workshop

Importing required libraries

[1]:
```
import os #launching Terminal instruction in the notebook
import tarfile #unpacking .tar files
import xarray as xr # reading NetCDF files
import numpy as np # computations
import pandas as pd # computations
from scipy import stats # statistics
import matplotlib.pyplot as plt # plotting
import cartopy.crs as ccrs # georeferensing
```

Simple 0 0 Python 3 (ipykernel) | Idle Mode: Command Ln 1, Col 1 CLAAS_Short_Course_19042023.ipynb