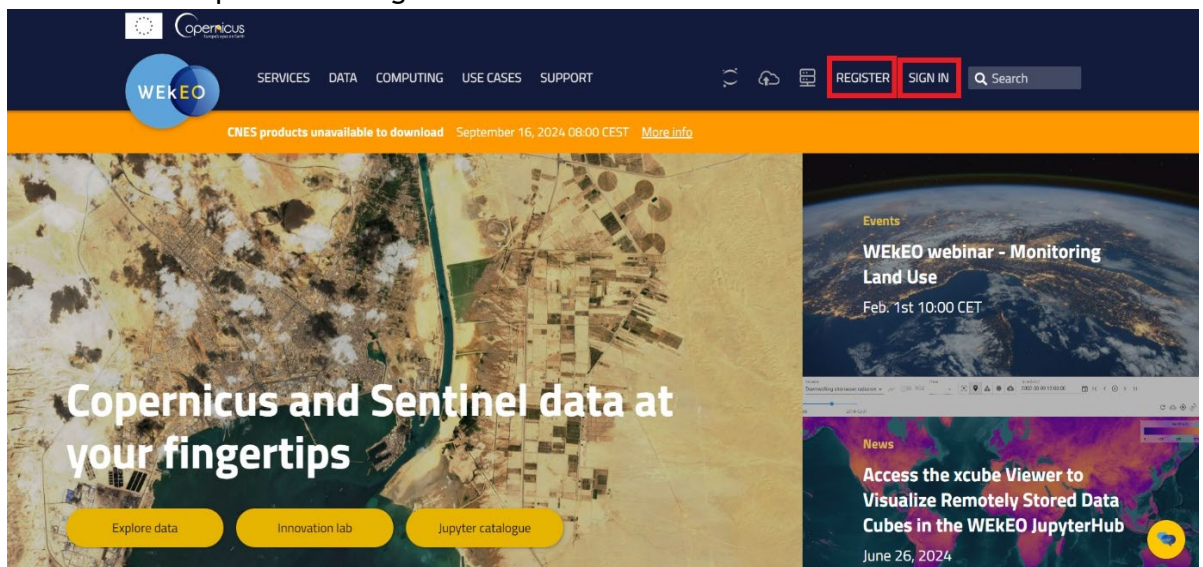


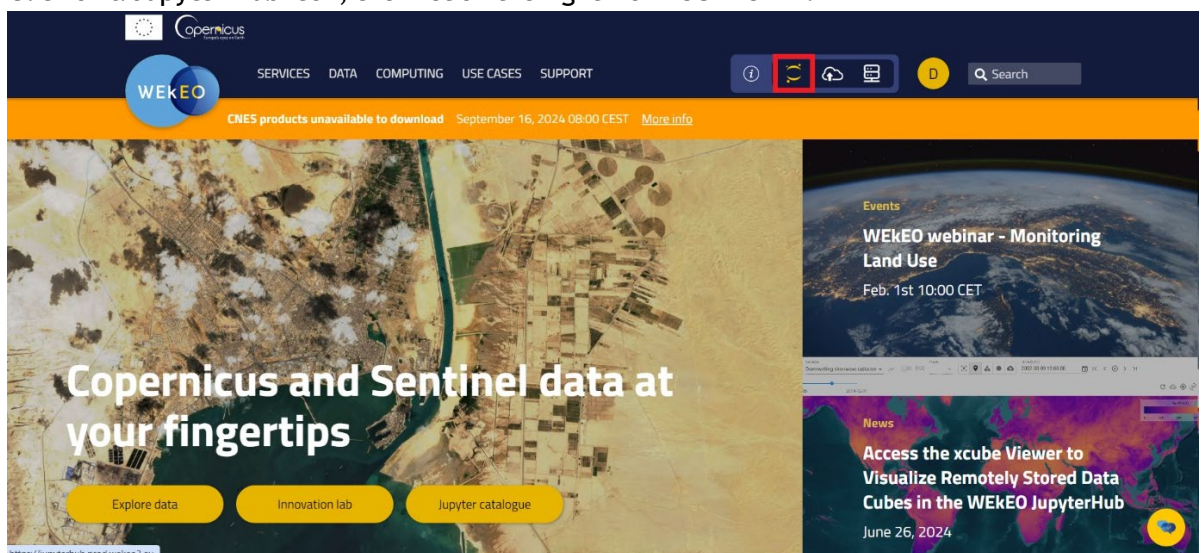
Guidance for Jupyter notebooks in WEkEO, Colab and LTPY

WEkEO

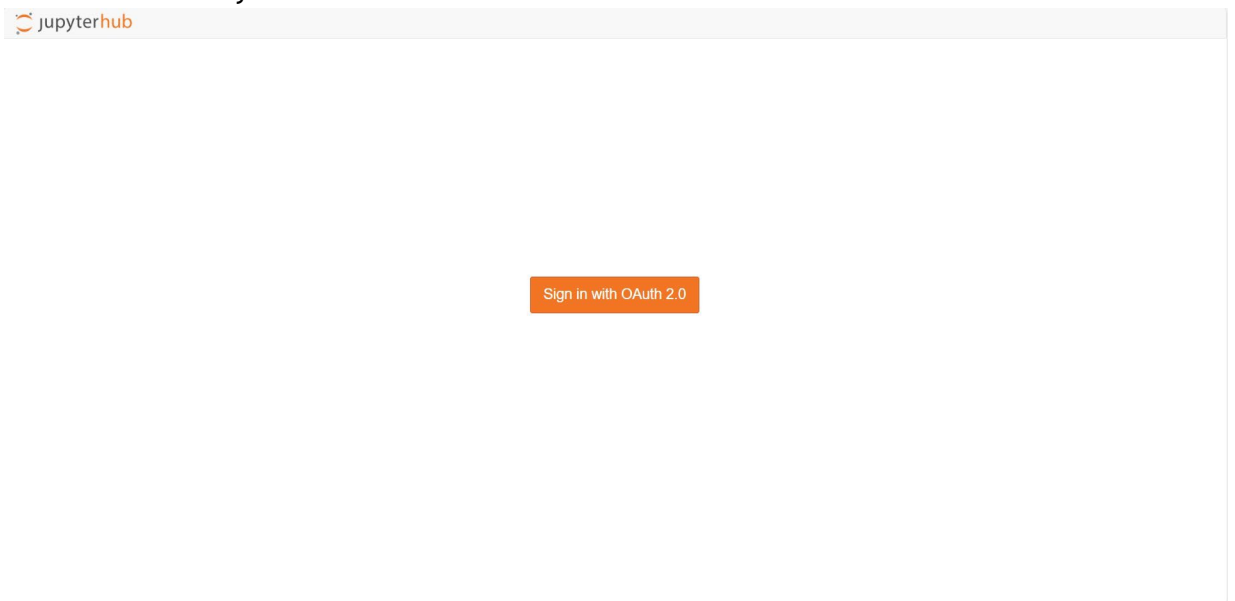
1. Go to <https://www.wekeo.eu/>
2. Click on 'SIGN IN' if you registered already before. Put in your credentials. If not, click on 'REGISTER' and proceed to register.



3. Click on a Jupyter Hub icon, the first on the right from 'SUPPORT':



4. Sometimes, there will be a 2-factor authentication. Click on ‘Sign in with OAuth 2.0’, put in a code sent on your email.



5. Choose a server: [Earth Observation Tools](#).
6. Get the notebook into your working directory. You can do this in two ways:
 - a. Alternative one - drag and drop zip file
 - Go to the Gitlab to the desired directory.
 - Download the directory by clicking on the blue “Code” and then “Download this directory: zip”.

Name	Last commit
..	
01_dust	Update 11_MSG_dust_product_L1_load_browse.ipynb
02_wildfires	Update 15 files
03_wildfires_chemicals	Update 15 files
img	Upload New File
.gitkeep	Add new directory
bucket_functions.ipynb	Update file bucket_functions.ipynb
functions.ipynb	Upload New File

History Find file Edit Code

Clone with SSH
git@gitlab.eumetsat.int:eumetlab

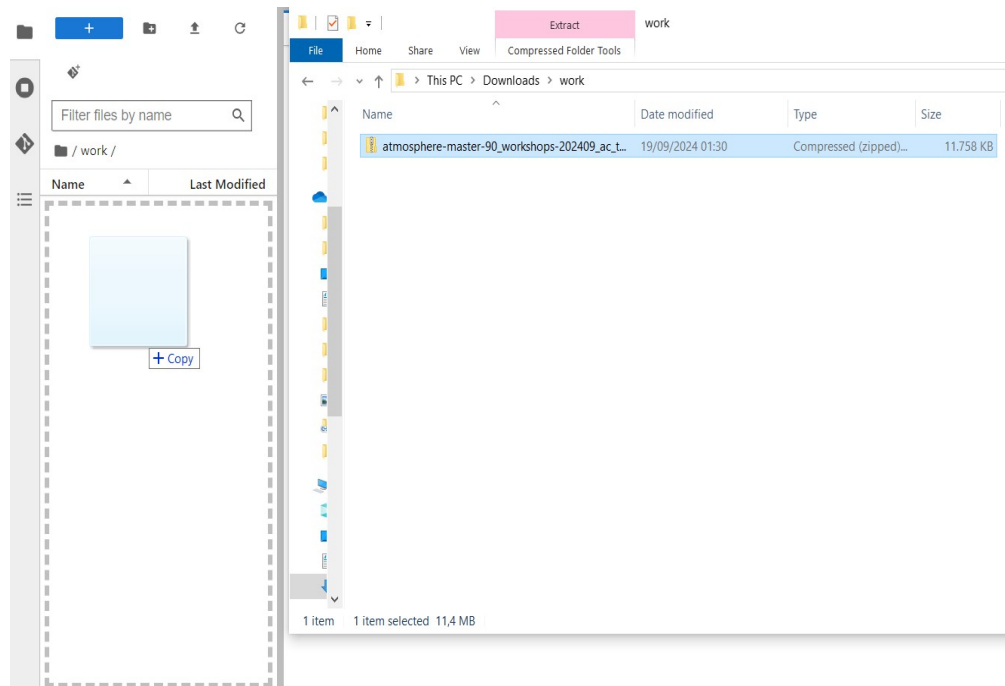
Clone with HTTPS
https://gitlab.eumetsat.int/eume

Open in your IDE
Visual Studio Code (SSH)
Visual Studio Code (HTTPS)
IntelliJ IDEA (SSH)
IntelliJ IDEA (HTTPS)

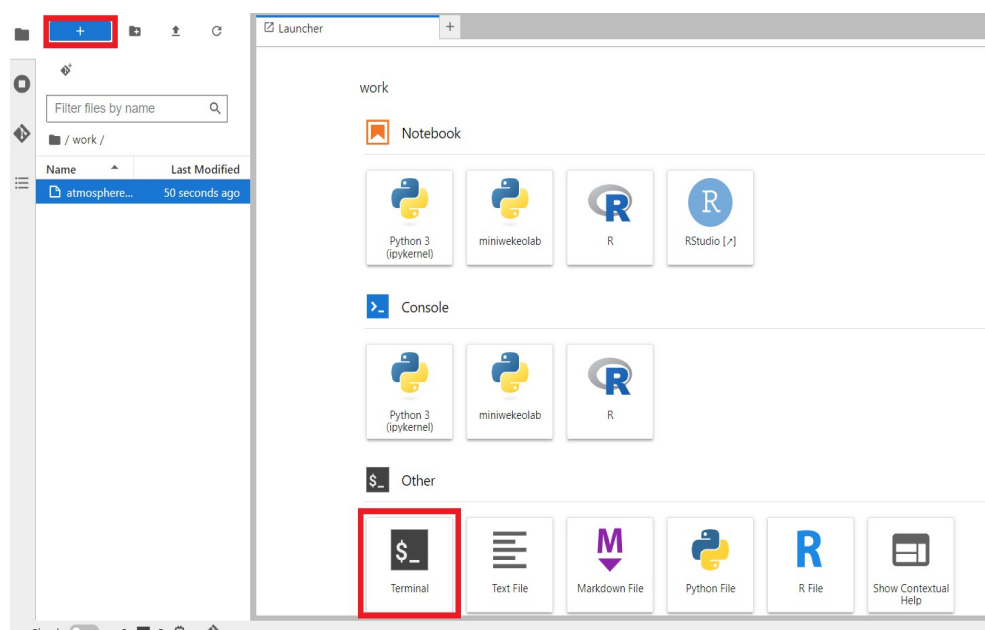
Download source code
zip
tar.gz
tar.bz2
tar

Download this directory
zip
tar.gz
tar.bz2
tar

- Drag and drop the zip file into your WEkEO working space



- If the Launcher tab is not open, click on the blue “+” button. Open the Terminal by clicking on its icon in the Launcher.



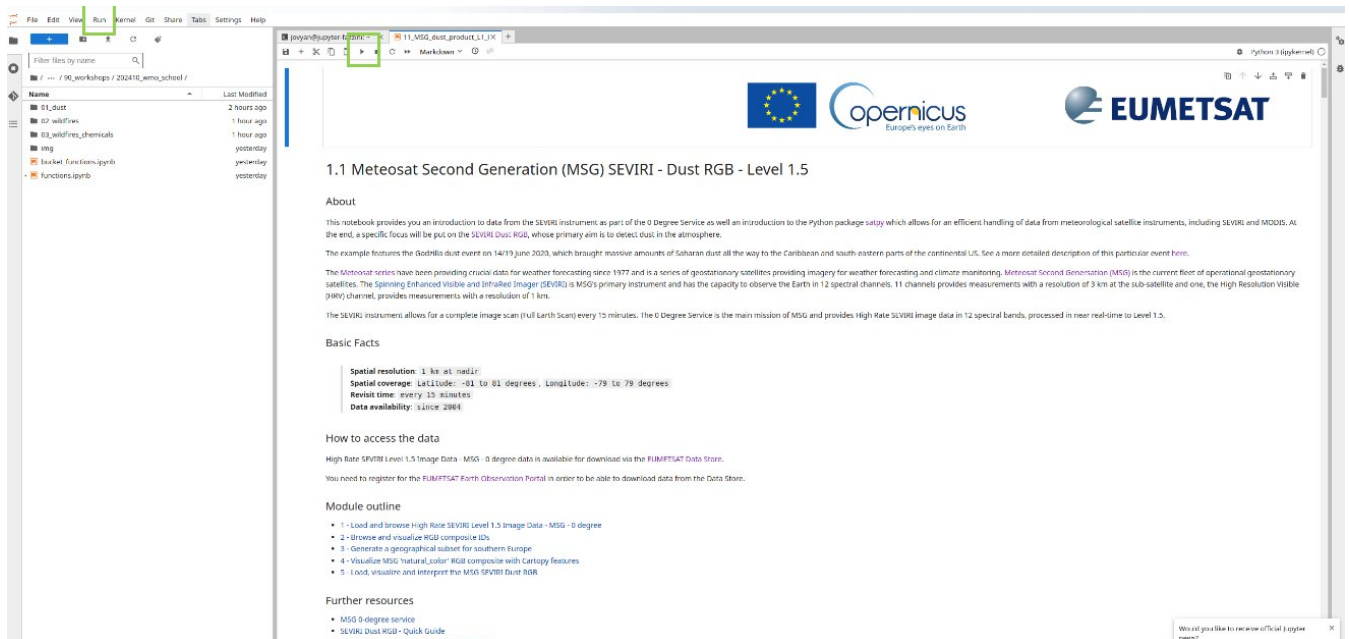
- In the terminal, type: `unzip <name-of-downloaded-directory>.zip`
- Navigate the folder in the menu on the left and open the desired notebook by a double-click.

Filter files by name	
/ ... / 90_workshops / 202410_wmo_school /	
Name	Last Modified
01_dust	18 hours ago
02_wildfires	18 hours ago
03_wildfires_chemicals	18 hours ago
img	18 hours ago
bucket_functions.ipynb	18 hours ago
functions.ipynb	18 hours ago

b. Alternative two - git clone directory

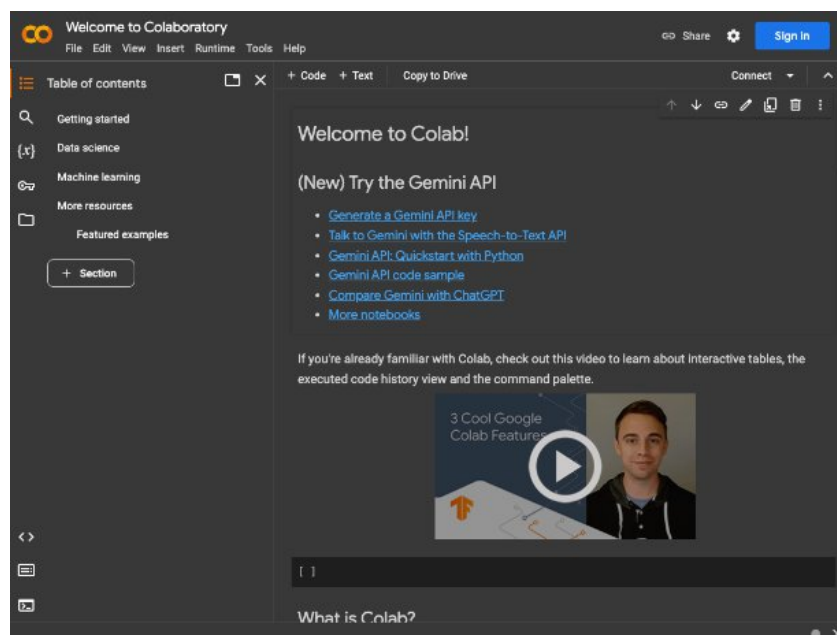
- Go to the Gitlab to the desired directory.
- Click on the blue “Code” and then copy the line under “Clone with HTTPS”
- If the Launcher tab is not open, click on the blue “+” button. Open the Terminal by clicking on its icon in the Launcher.
- In the terminal, type: `git clone <copied link>`
- Navigate the folder in the menu on the left and open the desired notebook by a double-click.

7. Run cell by cell or click on Run>Run All Cells

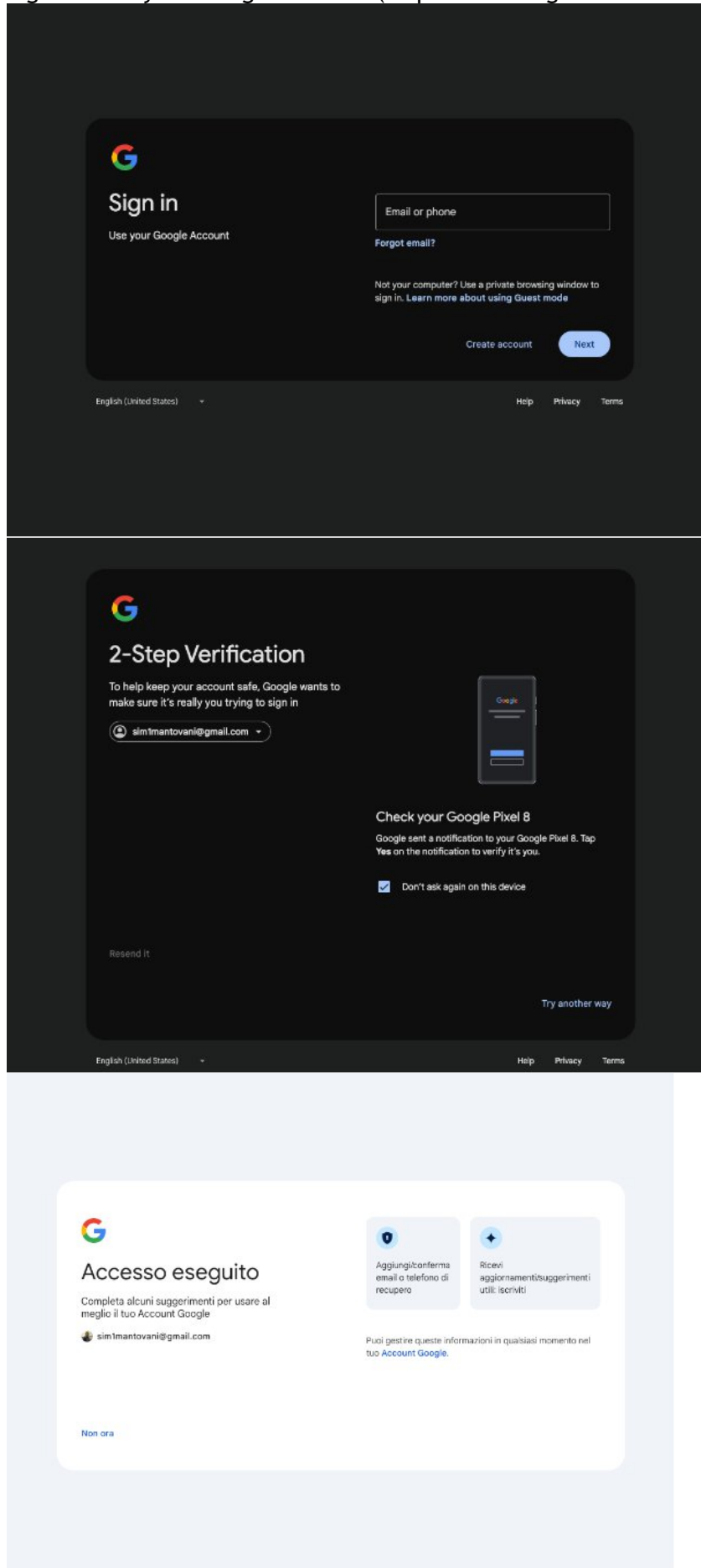


Google Colab

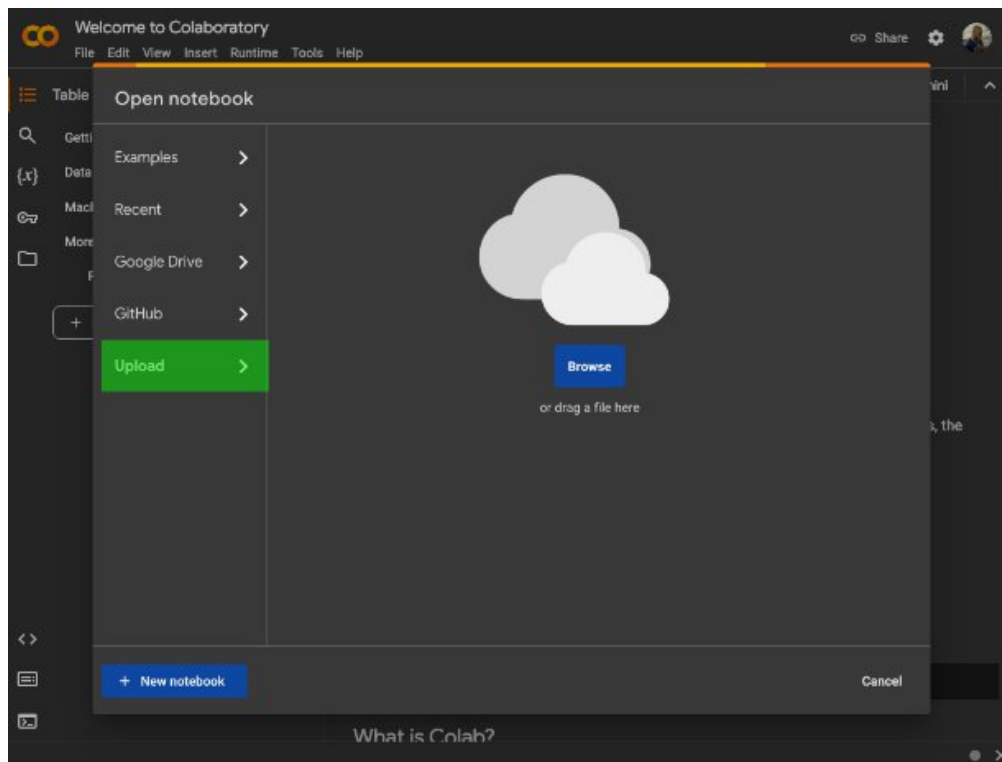
1. Unzip the previously downloaded zip file locally
2. In the unzipped content go to `atmospheric-composition-colab-90_workshops-202409_ac_training/90_workshops/202410_wmo_school/`
3. Connect to [Colab](#)



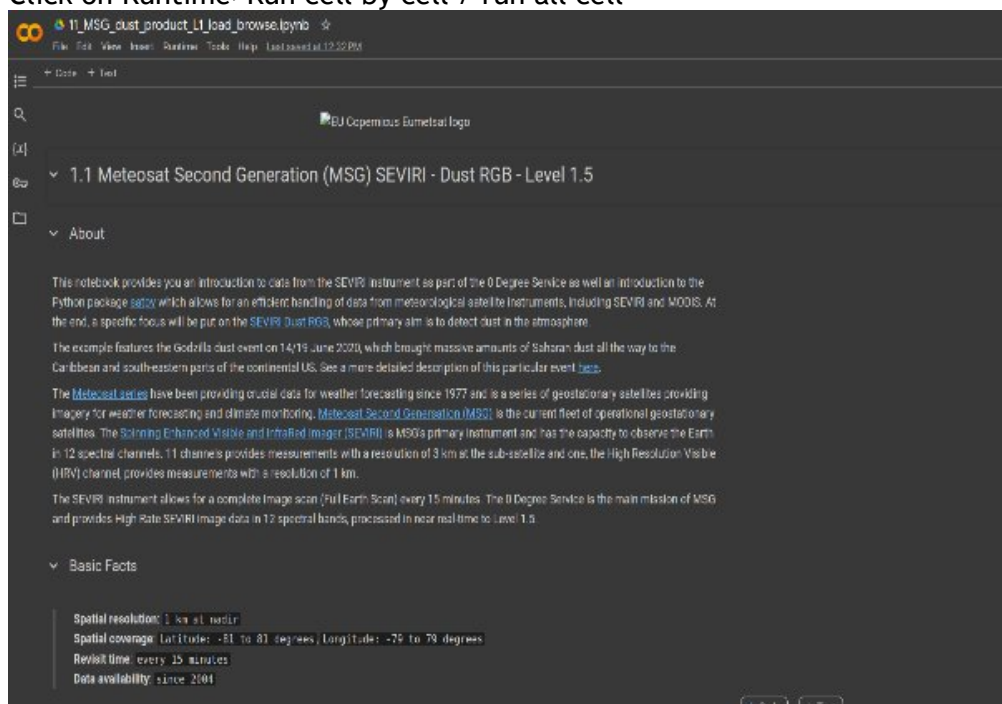
4. Sign in with your Google account (requires a Google account and 2-step verification)



5. Upload the desired notebook by clicking on File>Upload notebook



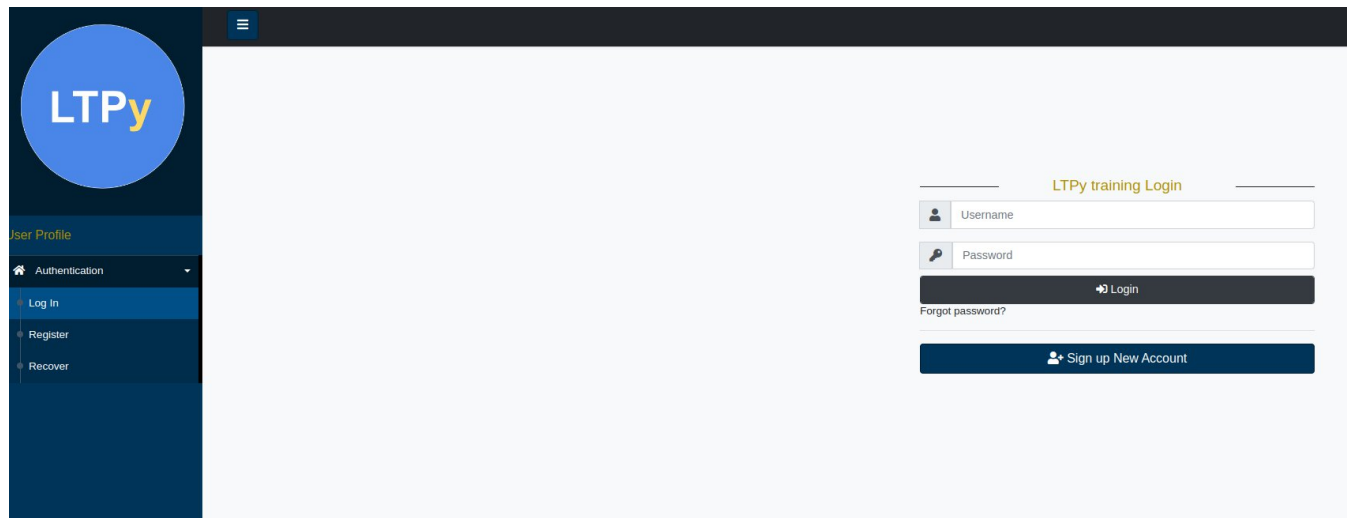
6. Click on Runtime>Run cell by cell / run all cell



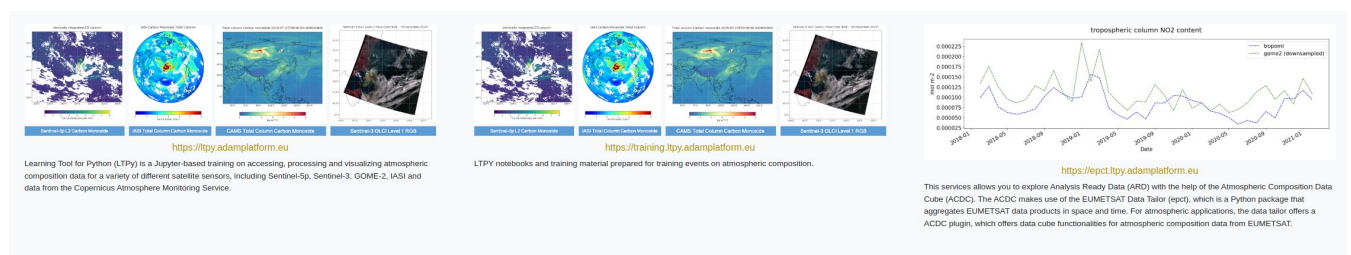
7. Repeat from step 5 for all the desired notebooks

LTPy

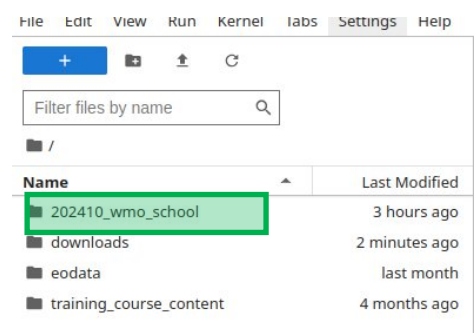
1. Go to <https://login.ltpy.adamplatform.eu/>
2. Click on 'LOG IN' if you registered already before. Put in your credentials. If not, click on 'REGISTER' and proceed to register.



3. Once you are logged in you will see a Dashboard, click on the second entry, so to go to <https://training.ltpy.adamplatform.eu/>



4. You will be redirected to a Jupyter environment
5. You will find the material in the "202410_wmo_school" folder
6. Run each cell separately or click on Run>Run All Cells



7. If in the first cell you get the error below, click on Kernel>Restart Kernel and re-run the notebook

Load required libraries

```
import sys
!{sys.executable} -m pip install cartopy netCDF4 h5netcdf==1.3.0 satpy==0.51.0 pyhdf h5py python-geotiepoints

shell-init: error retrieving current directory: getcwd: cannot access parent directories: No such file or directory
Traceback (most recent call last):
  File "<frozen runpy>", line 198, in _run_module_as_main
  File "<frozen runpy>", line 88, in _run_code
  File "/opt/conda/lib/python3.11/site-packages/pip/_main.py", line 8, in <module>
    if sys.path[0] in ("", os.getcwd()):
    ~~~~~
FileNotFoundError: [Errno 2] No such file or directory
```