Python netcdf and xarray

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TETHYS Summer School (Hands-on Session)

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How to retrieve API key for Copernicus Data Store (CDS) Steps to obtain your API key and endpoint URL

- Go to: https://cds.climate.copernicus.eu/how-to-api
- 2 Create a user account, if not already done so validate via e-mail.
- Accept Privacy statements.
- **3** Go to the link above and log in.
- 4 Now, after logging in, you will see key and url.
- **⊙** Copy the url and key parameters, they look like¹: url: https://cds.climate.copernicus.eu/api
- key: abcd1234-ef56-7890-gh12-ijklmnopqrst

 Have them ready you'll need them during ha<u>nds-on session!</u>

Run the Code, Learn the Science!

Everything you need is in the GitHub repo

- **Open the repository:** via GitHub link or QR code
 - Start with: 1-start-here.ipynb
- **Launch in Colab:** use the badge on the README
- **Execute:** run each cell in Google Colab
- No setup needed it runs entirely in the cloud



/geacomputing/UCY2Sept



Advanced Launchpad – <u>only if</u> you want to run locally (instead of on the cloud)

Advanced users: Set up the full Python environment locally with Conda

■ 1. Clone the repository

git clone https://github.com/geacomputing/UCY2Sept.git

cd UCY2Sept

- 2. Create a Conda environment from the .yml file conda env create -f environment.yml conda activate your-env-name
- 3. Launch Jupyter Notebook or Lab jupyter notebook
- You're now running the notebooks on your local machine!