



Guidance Sheet 6

How to get data from the Climate Data Store

Issued by: JBA Consulting / Lucie Clous

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1. What is Climate Data Store?

The Climate Data Store (CDS) is an online data repository, hosted by the European Centre for Medium-range Weather Forecasting and accessible via the internet at this address:

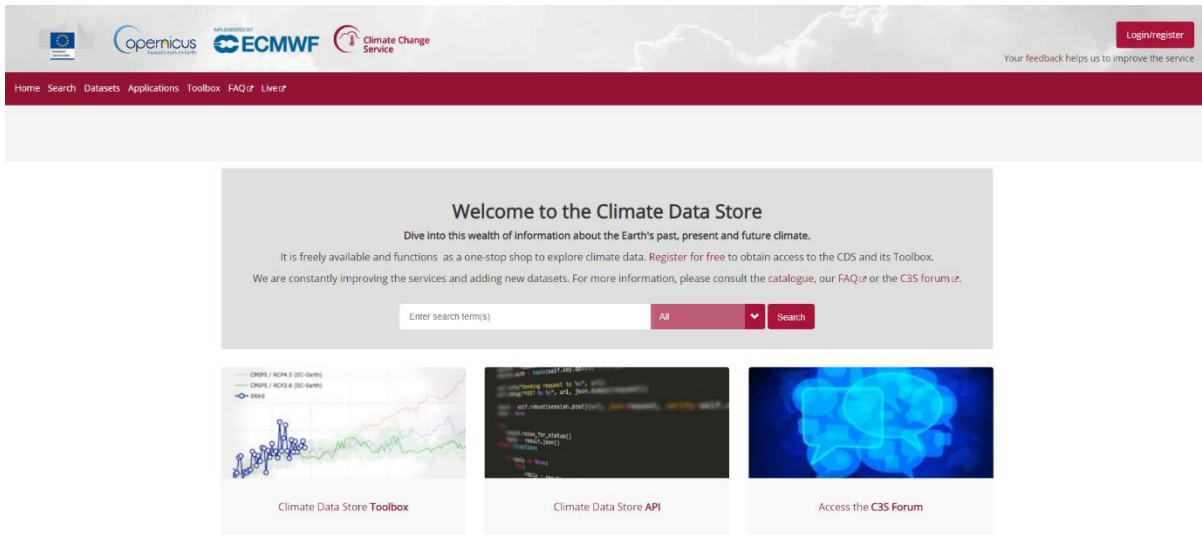


Figure 1 - CDS home page (<https://cds.climate.copernicus.eu/#!/home>)

The CDS provides a panel of datasets of climate indices, projections, reanalysis, satellite observations and seasonal forecasts with a global or European spatial coverage and past, present or future temporal coverage. These datasets are freely available and can be used by decision makers to develop policies considering climate-related hazards and improve mitigation and adaptation planning.

2. Login/register

If you intend to retrieve data from the CDS, you will have to register and/or login to the website. However, overview and documentation on the datasets do not require to be registered.

3. Access the data

On the Datasets tab (<https://cds.climate.copernicus.eu/cdsapp#!/search?type=dataset>), the list of datasets can be found. Datasets can be filtered or searched by name in the left column. Clicking on a dataset name will redirect on the dataset page with an overview of the data. On this page, the Download data tab propose to select a number of variables, time and dates and format that you wish to download. Click on the bottom right button to submit your request once logged in.

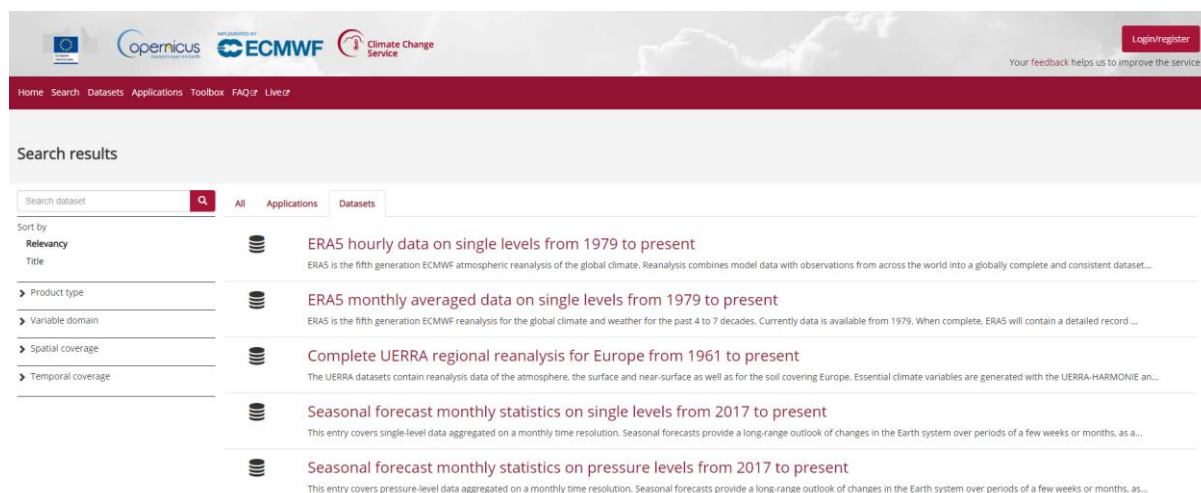


Figure 2 - List of datasets (<https://cds.climate.copernicus.eu/cdsapp#!/search?type=dataset>)

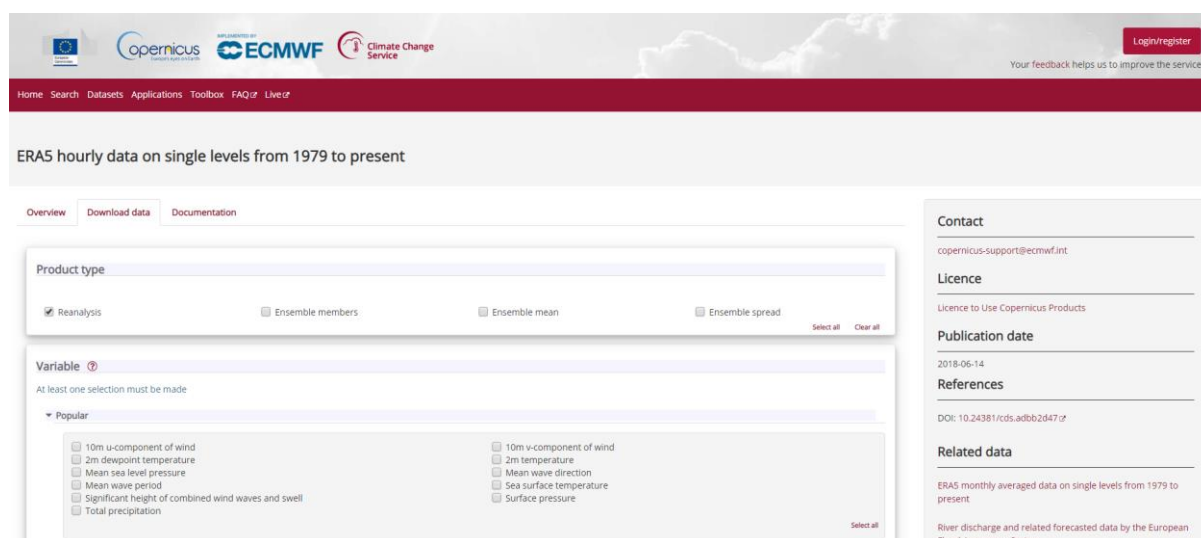


Figure 3 - Example of dataset page download page (<https://cds.climate.copernicus.eu/cdsapp#!/dataset/reanalysis-era5-single-levels?tab=form>)

Data can also be downloaded using the CDS API. Follow the steps here to learn how to use the API: <https://cds.climate.copernicus.eu/api-how-to>. Note that from the download data page of each dataset, you can create an API request after selecting the variables but clicking **Show API request** at the bottom left.

4. CDS Toolbox

- In addition to be able to retrieve datasets, the CDS provides a toolbox which enable user to make their own analyse and web application with the datasets (Toolbox tab).
- Some applications have already been developed and can be found in the Applications tab. Source code of the applications are also available.

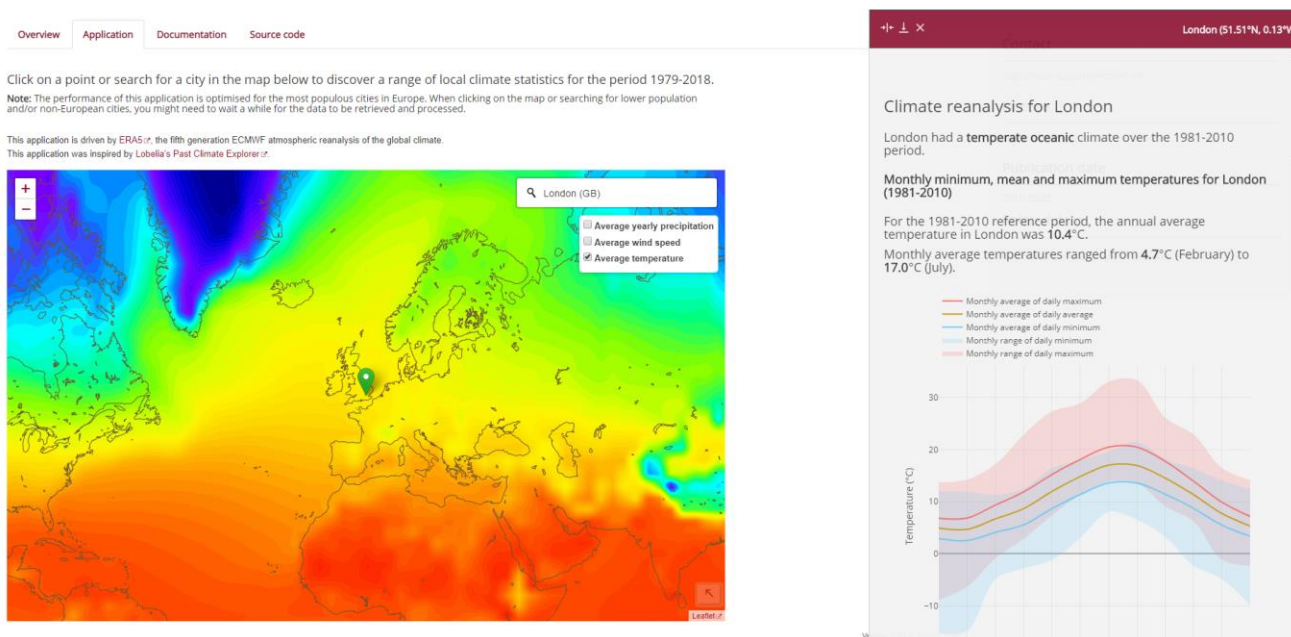


Figure 4 - Example of application and its results

(<https://cds.climate.copernicus.eu/cdsapp#!/software/app-era5-explorer?tab=app>)

5. Other Information

The CDS also contains a range of other information, including:

- Overview of each data set and application
- Detailed documentation about each
- In the near future, a new tab will be available linking to details of the stringent quality assessment process implemented by ECMWF, for ALL data sets and indicators.



ECMWF - Shinfield Park, Reading RG2 9AX, UK

Contact: info@copernicus-climate.eu