



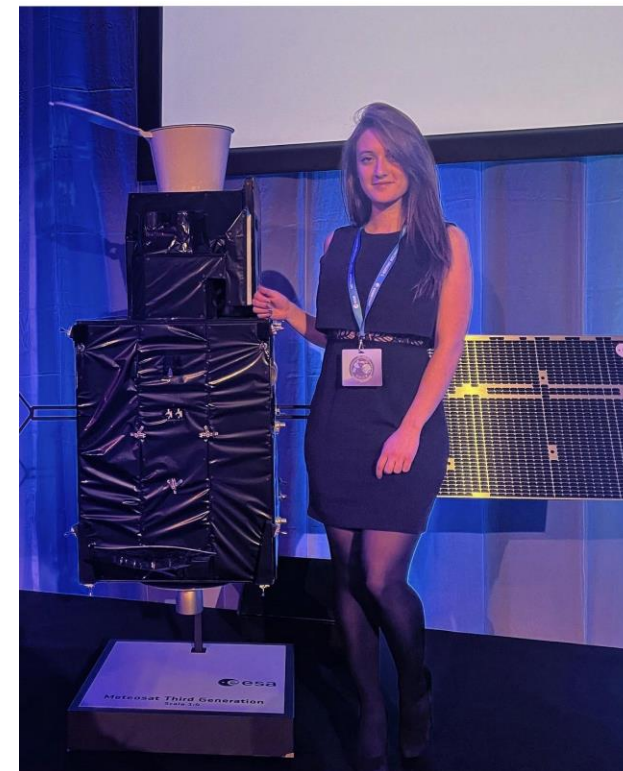
# Data Store Access & EUMETSAT Data Access Client.

Noemi Marsico  
*Earth Observation Data Engineer*

*29<sup>th</sup> March 2023*



- **Noemi Marsico**
- **Earth Observation Data Engineer for Innoflair on external contract with EUMETSAT**
- **By education: Hydrologist and Hydrogeologist**
- **Focused on optical remote sensing applications**
- **Master's thesis on the evaluation of Suspended Particulate Matter and Chlorophyll-a through OLCI and MODIS sensors**
- ***In situ* validation**





## Data Store

Learning how to download data from the EUMETSAT Data Store

- theory
- demonstration

## EUMDAC

Using EUMETSAT Data Access Client to explore and download collections

- theory
- demonstration

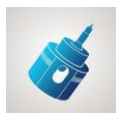




## We have a GUI and APIs!!

- It is a single point of access to EUMETSAT Data

- Data from:



Meteosat 1<sup>st</sup> generation

2<sup>nd</sup> generation



Metop: 1<sup>st</sup> generation

2<sup>nd</sup> generation



Copernicus mission: Sentinel-3 to 6

- Data on demand



You don't have to place orders!

The screenshot shows the EUMETSAT Data Services interface. At the top, there's a navigation bar with the EUMETSAT logo, 'DATA SERVICES', and links for 'API Access', 'Cart 0 Items', and 'Log in'. Below this is a search bar containing 'e.g. "Atlantic St' and a search icon. To the left of the search results is a filter sidebar with three sections: 'PLATFORM', 'SENSOR TYPE', and 'SENSOR'. Under 'PLATFORM', there are checkboxes for Sentinel-3 (25), Metop (21), Sentinel-6 (6), MSG (5), and MFG (3). Under 'SENSOR TYPE', there are checkboxes for Altimetric (13), Interferometer (3), Microwave Radiometer (1), Optical (25), and Radiometer (2). Under 'SENSOR', there are checkboxes for AMR-C (1), AMSU-A (1), ASCAT (11), and AVHRR (2). The main search results area shows 'We've found 60 results' and lists three items: 'AMSU-A Level 1B - Metop - Global', 'ASCAT Coastal Winds at 12.5 km Swath Grid - Metop', and 'ASCAT L2 12.5 km Winds Data Record Release 1 - Metop'. Each item includes a small thumbnail image, a title, a description, a 'learn more' link, and an 'Access Data' button. The 'LEO' (Low Earth Orbit) label is visible next to each item title.



# Demonstration



To use the services programmatically

- It is a simplified python library
- A piece of software built to simplify EUMETSAT Data download
- Its data are those included in all EUMETSAT Services.



```
EUMDAC
(base) ~ # Discover collections with EUMDAC
(base) ~ █
```

We have a CLI that does not require installation!

But you can also download it on your Python/Conda etc. environment



# Demonstration



EUMETSAT Website: <https://www.eumetsat.int/>

Data from Copernicus in the Data Store: <https://eumetsatspace.atlassian.net/wiki/spaces/DSDS/pages/1891368961/Sentinel-3+Catalogue>

Knowledge bases Data Store: <https://eumetsatspace.atlassian.net/wiki/spaces/DSDS/overview>

Direct link to Data Store catalog: <https://data.eumetsat.int/>

Knowledge base EUMDAC: <https://eumetsatspace.atlassian.net/wiki/spaces/EUMDAC/overview>

Knowledge base Data Tailor: <https://eumetsatspace.atlassian.net/wiki/spaces/DSDT/overview>

Registration to the new Data Access Service training on Customization of Sentinel 3 products with data tailor:  
[https://eumetsat.zoom.us/webinar/register/7616728376488/WN\\_wta4RXKoTIGRIPhLQzogrA](https://eumetsat.zoom.us/webinar/register/7616728376488/WN_wta4RXKoTIGRIPhLQzogrA)

Jupyter Notebook on Sentinel 3 data: [https://gitlab.eumetsat.int/eumetlab/oceans/ocean-training/sensors/learn-olci/-/blob/main/2\\_OLCI\\_advanced/2.1\\_OLCI\\_advanced\\_data\\_access\\_eumdac.ipynb](https://gitlab.eumetsat.int/eumetlab/oceans/ocean-training/sensors/learn-olci/-/blob/main/2_OLCI_advanced/2.1_OLCI_advanced_data_access_eumdac.ipynb)

Training material from previous Data Access Trainings: <https://training.eumetsat.int/course/view.php?id=436>





Thank you!  
Questions are welcome.