Data Access Services

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Earth Observation Data Engineer

5th September 2024
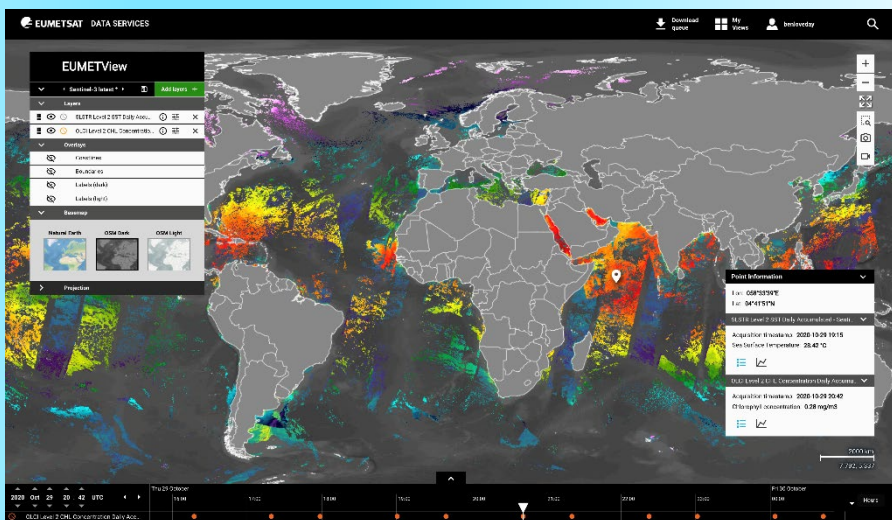
EUMETSAT Pull Data Access Services
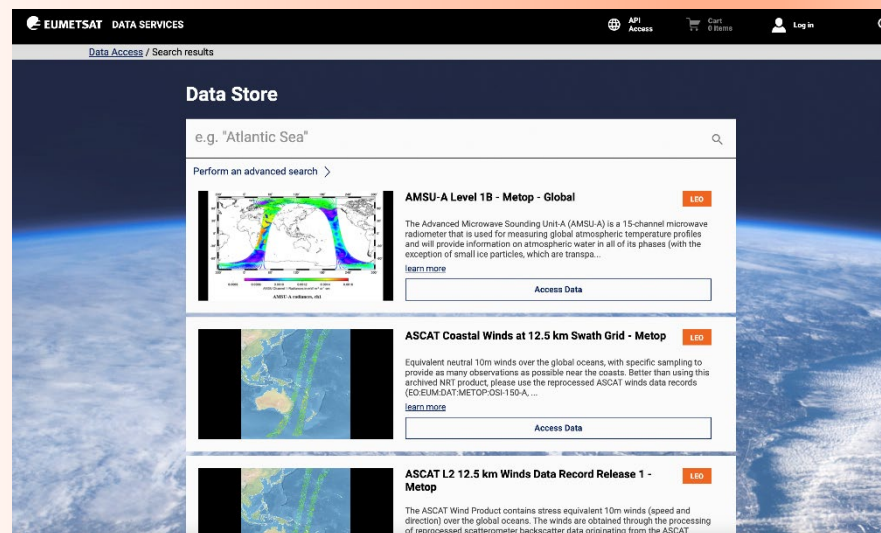
EUMETView

https://view.eumetsat.int/

Data Store

https://data.eumetsat.int/

Data Tailor

https://tailor.eumetsat.int/

EUMETSAT Pull Data Access Services

EUMETView

https://view.eumetsat.int/
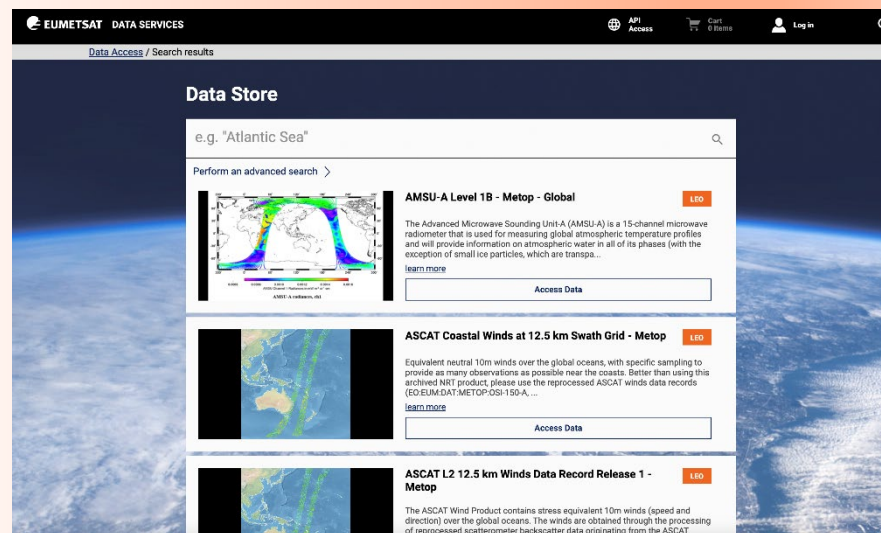
Data Store

https://data.eumetsat.int/

Data Tailor
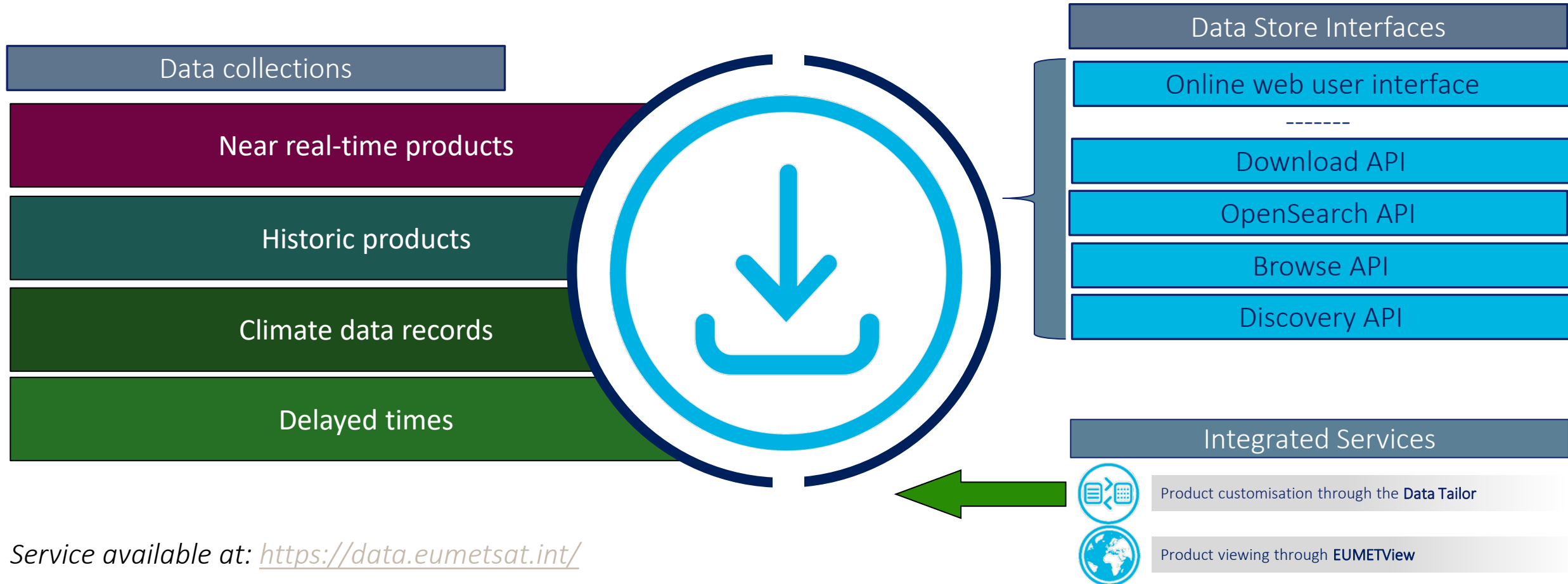
https://tailor.eumetsat.int/
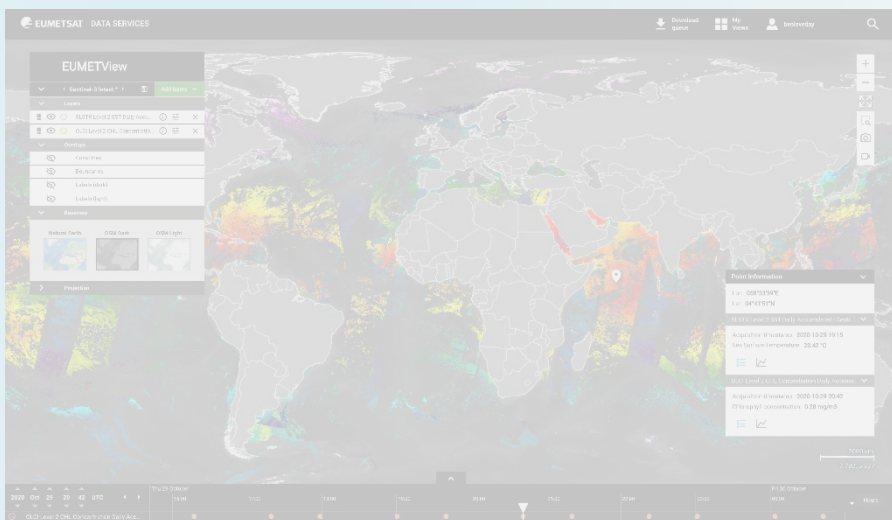
Data Store

The **EUMETSAT Data Store** provides users with a download and linked data tailoring service for online data; providing access through an online web user interface and via a suite of APIs.

Data collections

Near real-time products

Historic products

Climate data records

Delayed times

Data Store Interfaces

Online web user interface

Download API

OpenSearch API

Browse API

Discovery API

Integrated Services

Product customisation through the **Data Tailor**

Product viewing through **EUMETView**

Service available at: *https://data.eumetsat.int/*

Ways of interacting with the Data Store APIs

GUI

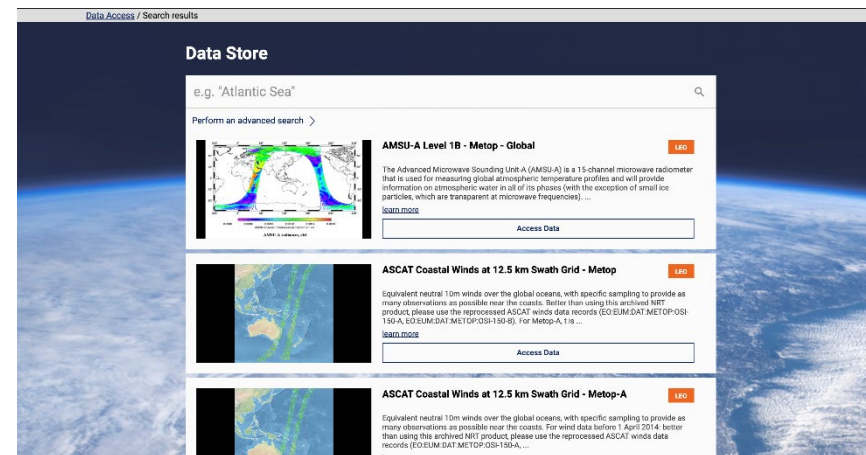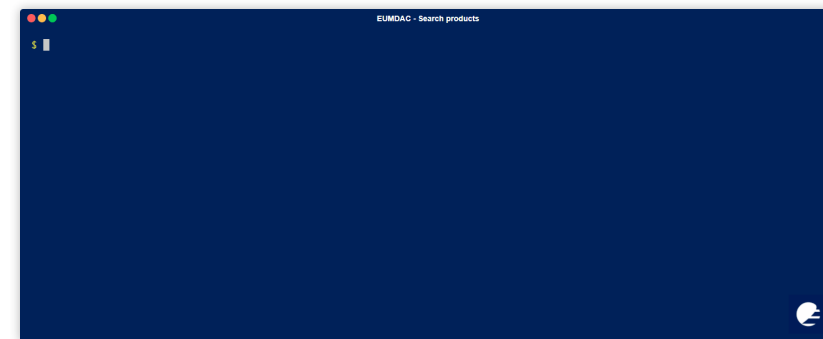### Graphical user interface

A graphical user interface (GUI) is a digital interface in which a user interacts with graphical components such as icons, buttons, and menus.
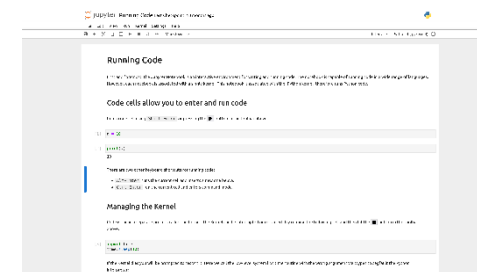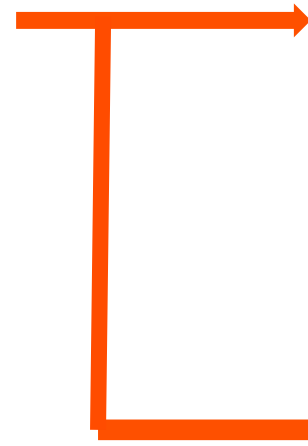
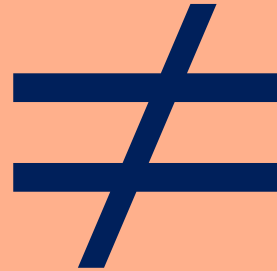## EUMDAC

EUMETSAT Data Access Client

GUIDES

https://user.eumetsat.int/resources/user-guides/introductory-data-store-user-guide

EUMETSAT Data Access Client (EUMDAC)

EUMDAC is the **EUMETSAT D**ata **A**ccess **C**lient. It provides simple access to the EUMETSAT data from a variety of satellite missions. As a Python library, it comes with many methods and helpers to use EUMETSATs APIs and services, like Data Store and Data Tailor. It also provides a variety of useful command-line utilities for data search, download and processing.

| Catalogue of the Data Store |
| Catalogue of EUMETView |
| Customisation through Data Tailor |

| EUMDAC Interfaces |
| Client Command Line (CLI) |
| CLI Binary |
| Python Library |

LI data from the Data Store Archive are different than on the EUMETCast

Archived Time availability

☐ 2024-09-04 (10:50) - 2024-09-04 (11:00)	MTI1 ⓘ	0.41 MB	⬇ ⎘ 🛒
☐ 2024-09-04 (10:40) - 2024-09-04 (10:50)	MTI1 ⓘ	0.39 MB	⬇ ⎘ 🛒
☐ 2024-09-04 (10:30) - 2024-09-04 (10:40)	MTI1 ⓘ	0.36 MB	⬇ ⎘ 🛒
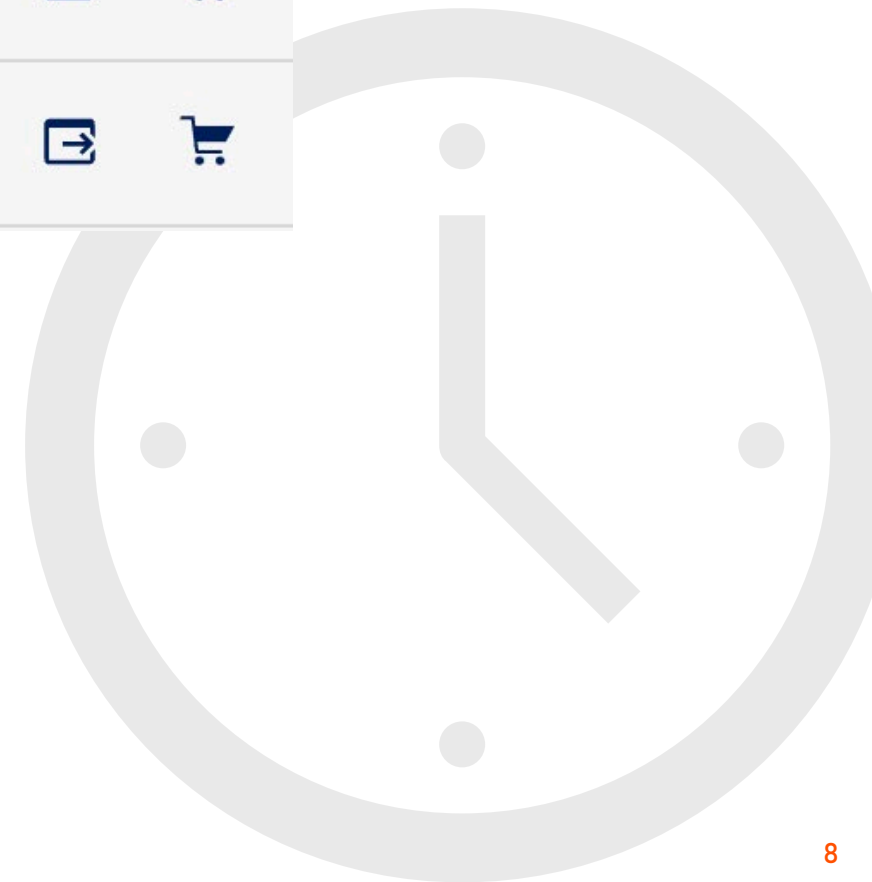
LI collection in Data Store

Collection	ID
LI Lightning Groups - MTG - 0 degree	EO:EUM:DAT:0782
LI Lightning Flashes - MTG - 0 degree	EO:EUM:DAT:0691
LI Accumulated Flashes - MTG - 0 degree	EO:EUM:DAT:0686
LI Accumulated Flash Area - MTG - 0 degree	EO:EUM:DAT:0687
LI Accumulated Flash Radiance - MTG - 0 degree	EO:EUM:DAT:0688
LI Lightning Events Filtered - MTG - 0 degree	EO:EUM:DAT:0690
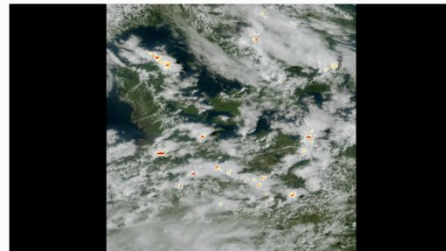
APIs, Cart options & Account

www.eumetsat.int

Learn More option

Data Access / Advanced search results / Product details

LI Accumulated Flashes - MTG - 0 degree

Publication date: 31/10/2022

DESCRIPTION

LI Level 2 Accumulated Flashes (AF) complements the LI Level 2 Accumulated Flash Area (AFA) by providing one with the variation of the number of events within those regions reported to have lightning flashes in the Accumulated Flash Area (AFA). Accumulated Flashes provide users with data about the mapping of the number of LI events/detections rather than the mapping of flashes. One should keep in mind that the absolute value within each pixel of the Accumulated Flashes has no real physical meaning; it is rather a proxy for the pixel-by-pixel variation of the number of events. It is worth noting that one can derive the flash rate over a region encompassing a complete lightning feature (not within an FCI grid pixel) in Accumulated Flashes; this stems from the definition in Accumulated (gridded) data.

ACCESS

| By distribution | By format |

netCDF4   Details ∨

RESOURCES

MTG LI level 2 data guide

MTG Products Distribution Baseline [MTGDIS]

Data Store MTG data access guide

Accessing MTG LI Level 2 products

Exploring MTG LI data

MTG in operations

MTG test data

Status
Pre-operational

Temporal extent
24/06/2024 to now

Data policy
Free and unrestricted

Processing level
Level 2 Data

Region

Latitude
79 to 79 degrees

Longitude
79 to 79 degrees

Product Resolution
N/A

Last page update 16/08/2024

🖨 print product

✉ provide feedback

CONTACT ∨

Data Originator:

Organisation	EUMETSAT
Originating Centre	European Organisation for the Exploitation of Meteorological Satellites
URL	http://www.eumetsat.int
E-Mail	ops@eumetsat.int
Telephone	+49(0)6151-807 3660/3770

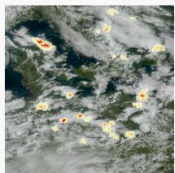**Data Distributor: same as originator**

TECHNICAL DETAILS ∨

Platform	MTG
Orbit type	GEO
Sensor	LI
Sensor Type	Lightning Imager

ADDITIONAL INFORMATION ∨

Acronym	LI-2-AF
Collection type	Dataset
Collection ID	EO:EUM:DAT:0686
Parameter	Weather, Lightning, Level 2 Data
XML Metadata	⬇ download metadata

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Data Store GUI

Data Access / Advanced search results / Product details / LI Accumulated Flashes - MTG - 0 degree

LI Accumulated Flashes - MTG - 0 degree

ID: EO:EUM:DAT:0686
Orbit: GEO
Data Policy:
learn more

AVAILABLE TIME RANGE: 2024-07-04 - 2024-09-04

| 2024-09-03 | ⌄ | | ‹ | 11:00 | › |

| 2024-09-04 | ⌄ | | ‹ | 11:00 | › |

Filename

Sort by

| Sensing time ⌄ | Descending ⌄ |

Filters

Reset Filters   **Show Results**

1-20 of 145 products found ⤷   ‹ 1 2 ... 8 › ‹

☐ Select all in page   **Add selected to Cart**   **Add Results to Cart**
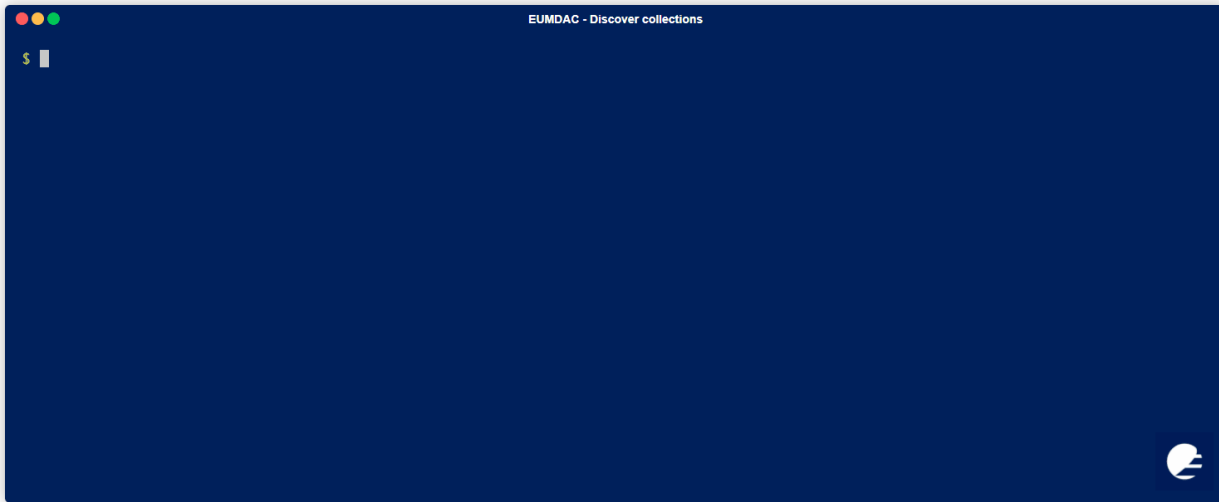
☐	2024-09-04 (10:50) - 2024-09-04 (11:00)	MTI1 ⓘ	0.41 MB	⬇	⤢	🛒
☐	2024-09-04 (10:40) - 2024-09-04 (10:50)	MTI1 ⓘ	0.39 MB	⬇	⤢	🛒
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☐	2024-09-04 (10:20) - 2024-09-04 (10:30)	MTI1 ⓘ	0.36 MB	⬇	⤢	🛒
☐	2024-09-04 (10:10) - 2024-09-04 (10:20)	MTI1 ⓘ	0.32 MB	⬇	⤢	🛒
☐	2024-09-04 (10:00) - 2024-09-04 (10:10)	MTI1 ⓘ	0.30 MB	⬇	⤢	🛒
☐	2024-09-04 (09:50) - 2024-09-04 (10:00)	MTI1 ⓘ	0.27 MB	⬇	⤢	🛒
☐	2024-09-04 (09:40) - 2024-09-04 (09:50)	MTI1 ⓘ	0.25 MB	⬇	⤢	🛒
☐	2024-09-04 (09:30) - 2024-09-04 (09:40)	MTI1 ⓘ	0.24 MB	⬇	⤢	🛒
☐	2024-09-04 (09:20) - 2024-09-04 (09:30)	MTI1 ⓘ	0.24 MB	⬇	⤢	🛒
☐	2024-09-04 (09:10) - 2024-09-04 (09:20)	MTI1 ⓘ	0.23 MB	⬇	⤢	🛒
☐	2024-09-04 (09:00) - 2024-09-04 (09:10)	MTI1 ⓘ	0.23 MB	⬇	⤢	🛒

EUMETSAT Data Access Client (EUMDAC)

EUMDAC - Discover collections

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EUMDAC - Search products

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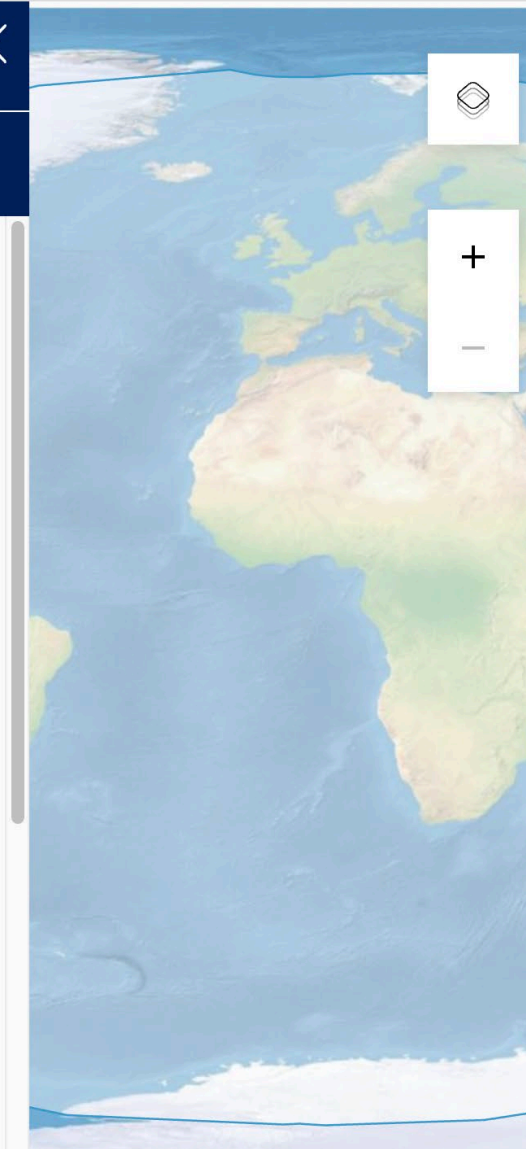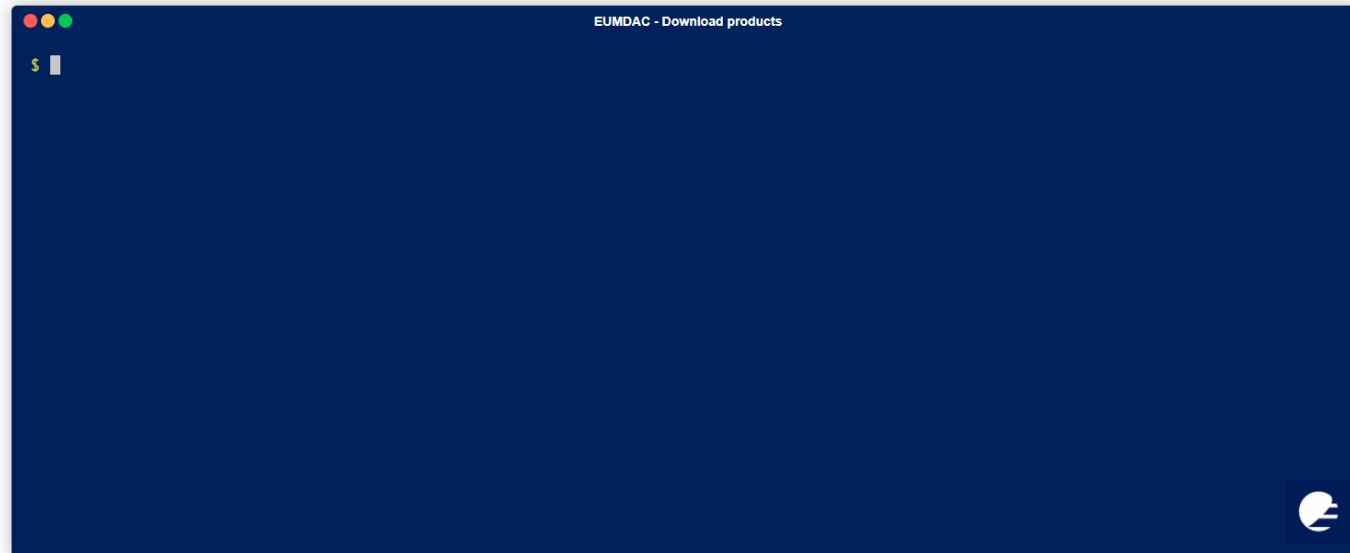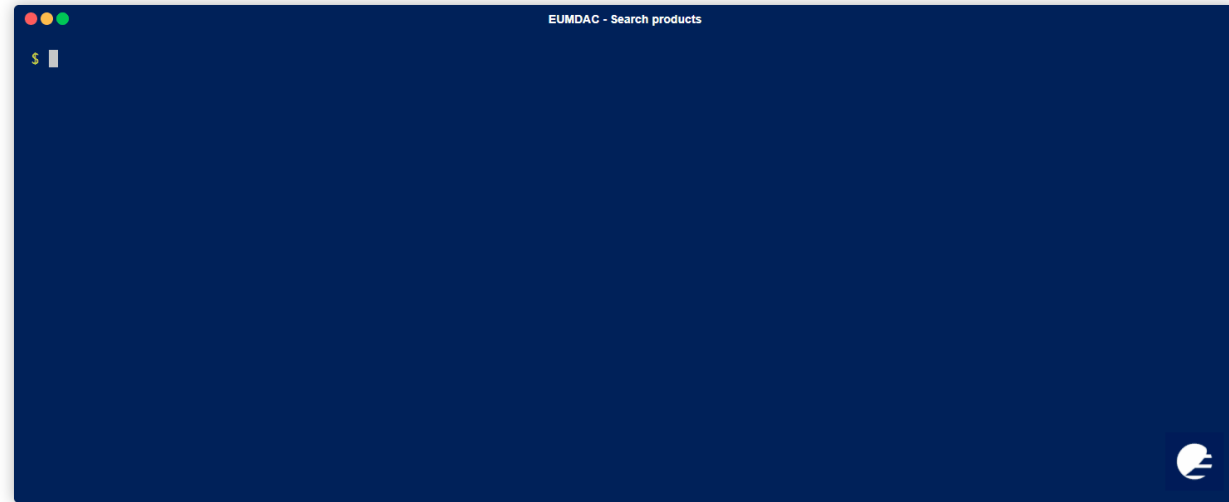
EUMDAC - Download products

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Collection	ID	Structure
LI Lightning Groups - MTG - 0 degree	EO:EUM:DAT:0782	EOP Metadata.xml (Metadata) manifest.xml (Metadata) One BODY file (NetCDF4 Datafile) One TRAIL file (NetCDF4 Datafile) One JPEG image (Quicklook image for Data Store browsing purposes) quicklooks/One PNG image (Quicklook image)

W_XX-EUMETSAT-Darmstadt,IMG+SAT,MTI1+LI-2-LGR--FD--x-x--ARC-x_C_EUMT_20240...

Name	Date Modified	Size
W_XX-EUMETSAT-Darmstadt,IMG+SAT,MTI1+LI-2-LGR--FD--CHK-BODY--ARC-NC4E...240904113018_L2PF_OPE_20240904112007_20240904113007_N__T_0069_0001.nc	Today at 11:31	
W_XX-EUMETSAT-Darmstadt,IMG+SAT,MTI1+LI-2-LGR--FD--CHK-TRAIL--ARC-NC4E...240904113020_L2PF_OPE_20240904112007_20240904113007_N__T_0069_0002.nc	Today at 11:31	
W_XX-EUMETSAT-Darmstadt,IMG+SAT,MTI1+LI-2-LGR--FD--QCK-IMAGE--ARC-PNG...240904113018_L2PF_OPE_20240904112007_20240904113007_N__T_0069_0001.jpg	Today at 11:31	
W_XX-EUMETSAT-Darmstadt,IMG+SAT,MTI1+LI-2-LGR--FD--QCK-IMAGE--ARC-PNG...40904113018_L2PF_OPE_20240904112007_20240904113007_N__T_0069_0001.png	Today at 11:31	
EOPMetadata.xml	Today at 11:31	
manifest.xml	Today at 11:31	

Resources

https://user.eumetsat.int/resources/user-guides/mtg-data-access-guide

Jupyter Notebook

https://gitlab.eumetsat.int/eumetlab/data-services/eumdac_data_store/-/blob/master/1_6_MTG_LI_data_access.ipynb

Thank you!!