

Access to Copernicus marine data from EUMETSAT is changing. Are you ready?

Copernicus Marine Training Service
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The Copernicus Marine Data Stream in the big data era: new EUMETSAT services for viewing, accessing and customising ocean products.

INTRODUCTION

- In September 2022, EUMETSAT will retire the **CODA** and **CODAREP** services used to disseminate level-1 and level-2 Sentinel-3 marine data for **OLCI**, **SLSTR** and **SRAL**.
- The new **EUMETSAT Data Store** service will replace these, expanding data access (Figure 1).
- EUMETView** and **Data Tailor** will offer new methods for interacting with Copernicus marine data.
- New tools (e.g. **EUMDAC**) and training material are available to support users in the transition.

NEW SERVICES: KEY CAPABILITIES

- The **EUMETSAT Data Store** will offer unified access to operational (OPE) and reprocessed (REP) data.
- A longer rolling archive will connect OPE and REP timelines, minimising/removing the need to use the offline **EUMETSAT Data Centre**.
- New **EUMETView** brings Web Map and Coverage Services (WMS/WCS) for OLCI & SLSTR data streams.
- "On-the-fly" customisation of products via the **Data Tailor**, already available for many EUMETSAT products, planned for Sentinel-3 SAFE formats.

USING THE SERVICES

- Access to the Data Store is via GUI and a suite of REST APIs, to support automation and batching (Figure 2).
- To support API use, we have authored the EUMETSAT Data Access Client (**EUMDAC**).
- EUMDAC is available as a **python library** or as a **command line interface** and greatly simplifies data access and retrieval.
- Future EUMDAC versions will support interfaces with the **Data Tailor**.

USE CASE EXAMPLES

- "I want to support ocean colour validation activities by downloading an entire timeseries for a region"
- "I need the latest products, with minimal latency, but I do not have EUMETCAST access"
- "I want to see quick images of ocean phenomena and share them with collaborators"

Figure 1: Changes in EUMETSAT data services for marine users in 2022

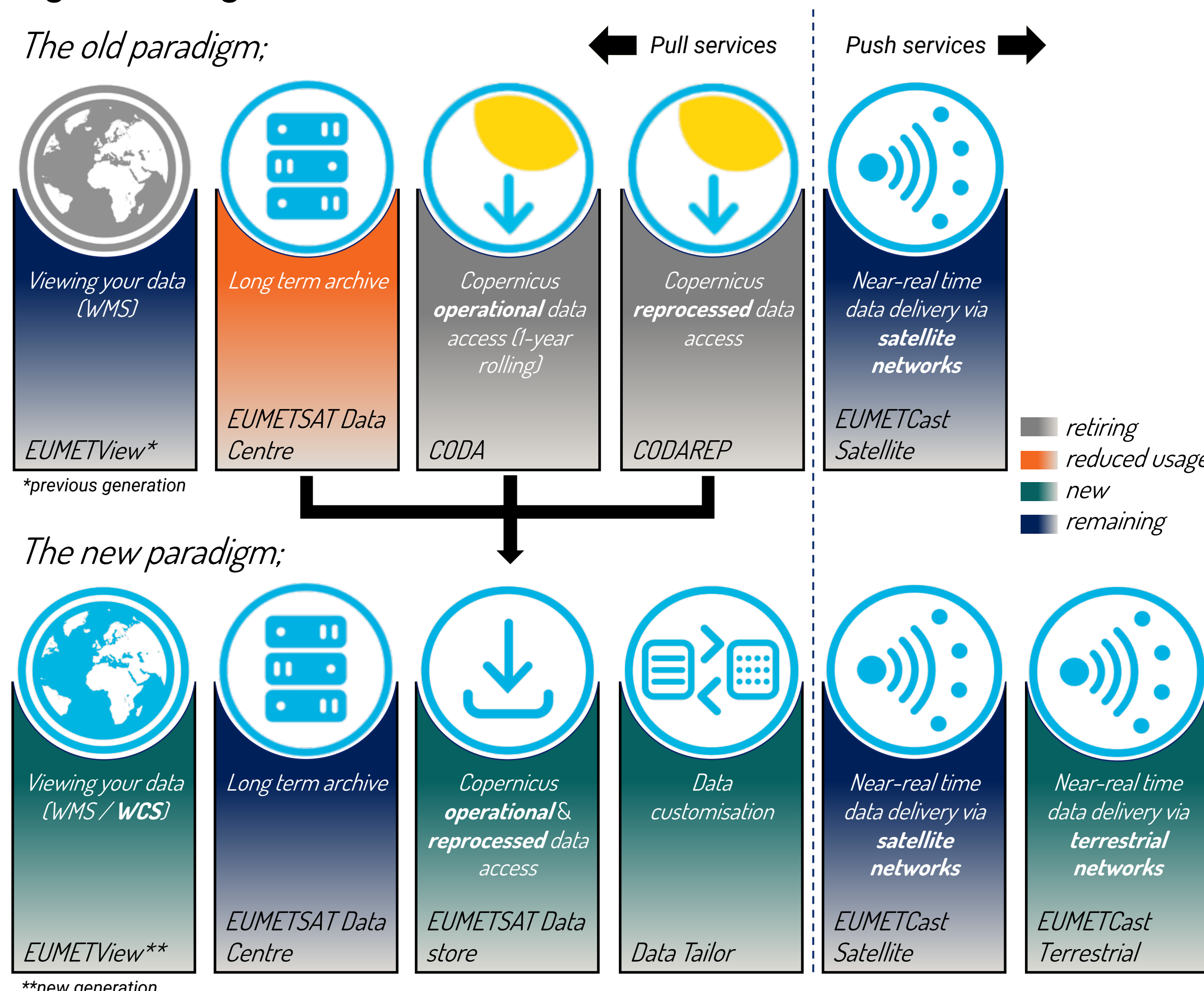
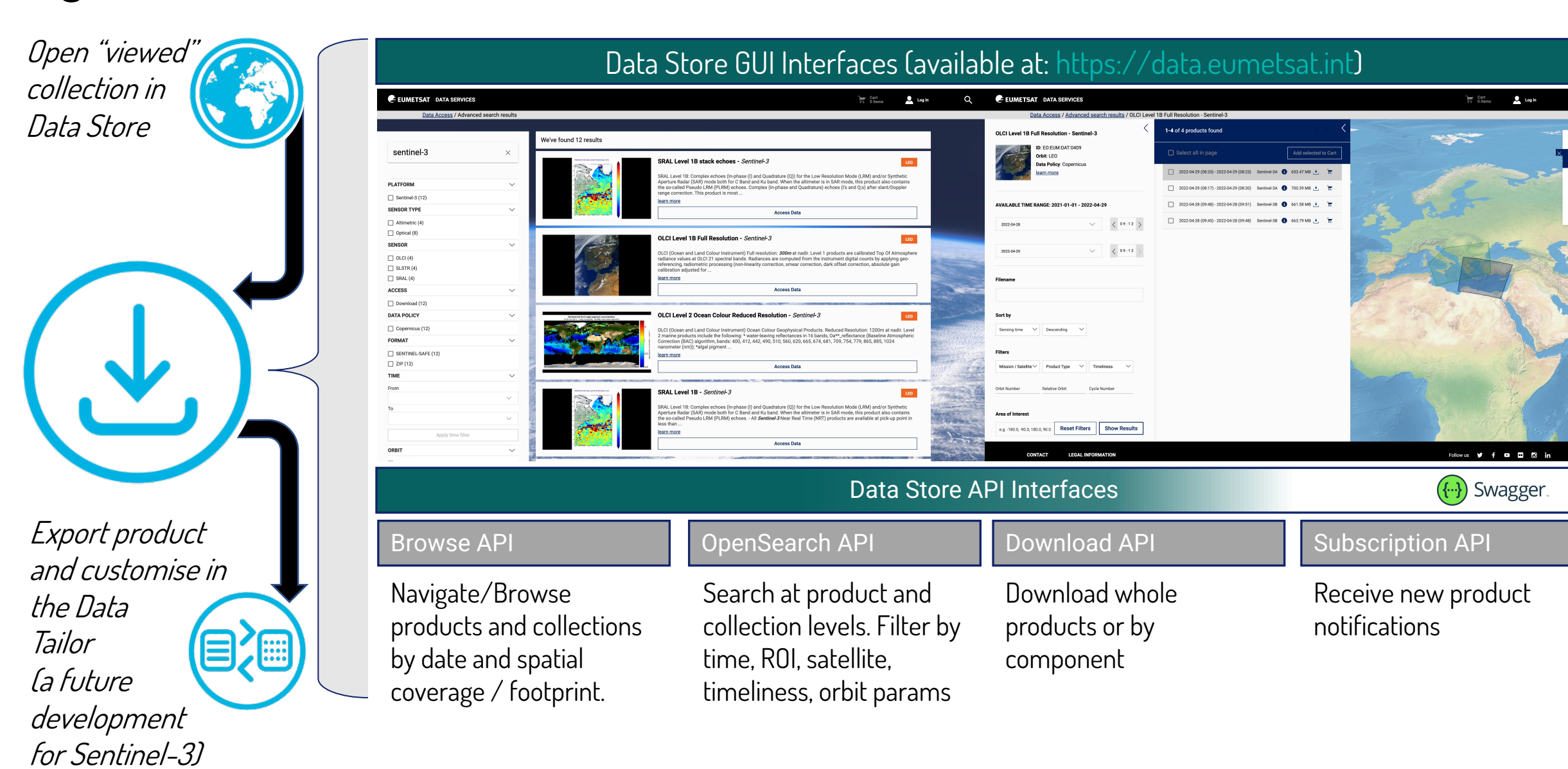


Figure 2: EUMETSAT Data Store interfaces



GET STARTED NOW

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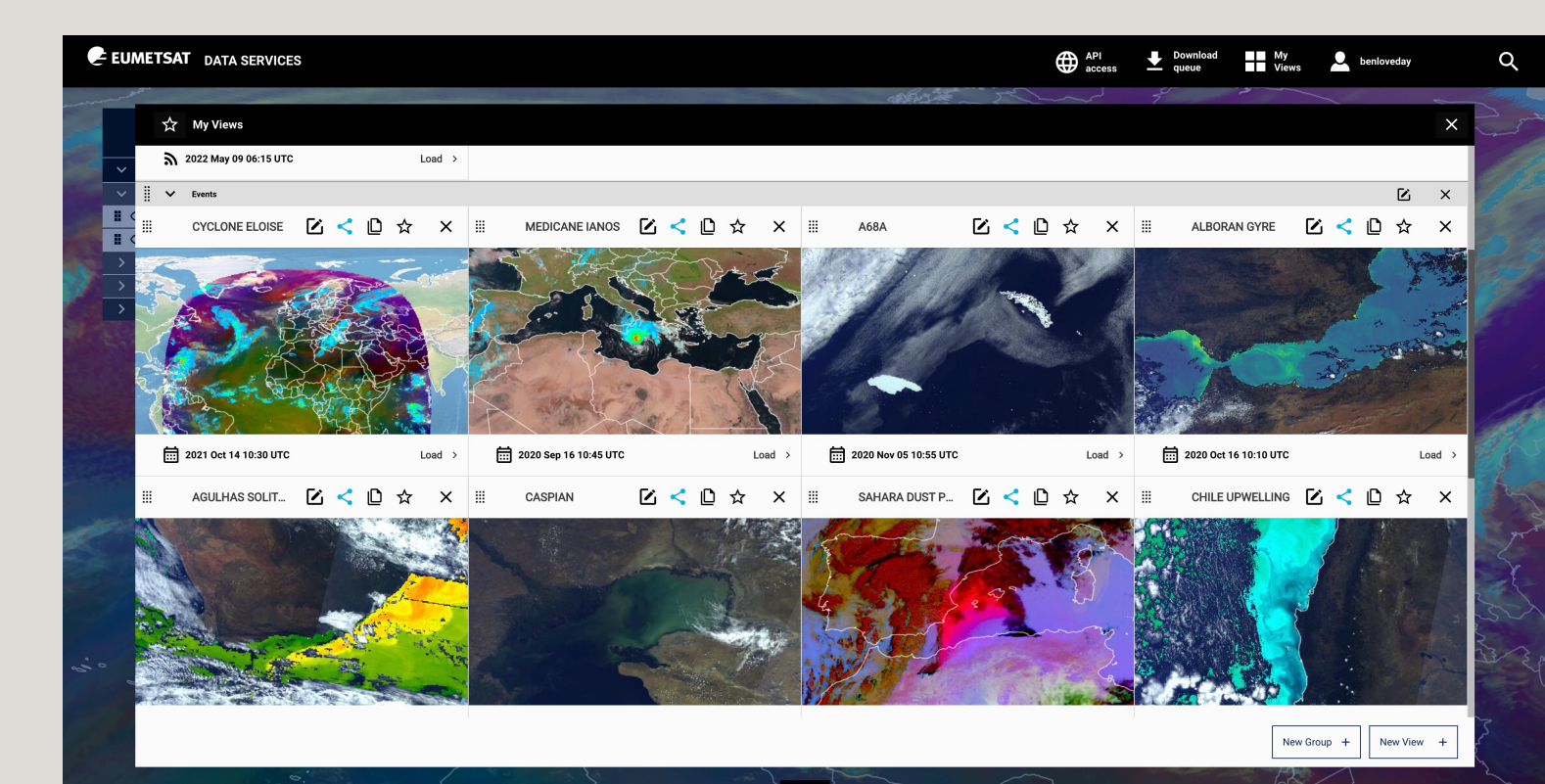
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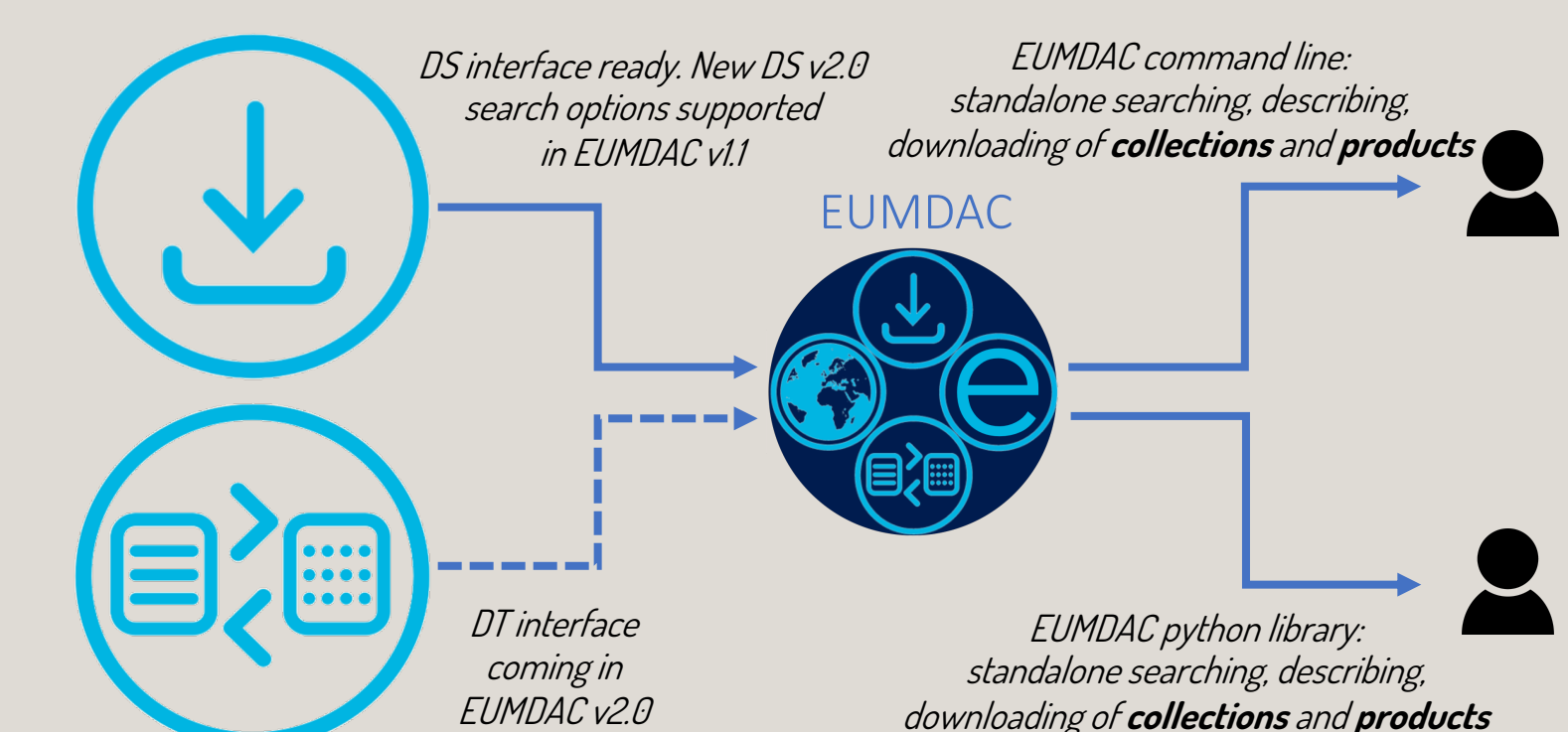
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In more detail...

VIEW SHARING WITH EUMETVIEW



EUMDAC DEVELOPMENTS



EXAMPLES OF EUMDAC USAGE

To get eumdac: `conda install -c eumetsat eumdac`
To set up eumdac: `eumdac --credentials ConsumerKey ConsumerSecret`
To see what collections are available: `eumdac describe`
To see info on a given collection: `eumdac describe -c EO:EUM:DAT:0408`
To search for products (in a given region/time):
`eumdac search -c EO:EUMVAL:DAT:0408`
`--geometry POLYGON ((10.09 56.09, 10.34 56.09, 10.09 56.19, 10.09 56.09))`
`-s 2022-04-01 -e 2022-04-06 -p products.txt`
To download your products:
`eumdac download -c EO:EUM:DAT:0408 -p @products.txt`
To subscribe to this collection:
`eumdac subscribe -c EO:EUM:DAT:0408 -url https://your_listening_service`

CURRENTLY AVAILABLE MARINE COLLECTIONS


Collection	Description	Date start
EO:EUM:DAT:0407	OLCI Level 2 Ocean Colour Full Resolution - Sentinel-3	2021-01-01
EO:EUM:DAT:0408	OLCI Level 2 Ocean Colour Reduced Resolution - Sentinel-3	2021-01-01
EO:EUM:DAT:0409	OLCI Level 1B Full Resolution - Sentinel-3	2021-01-01
EO:EUM:DAT:0410	OLCI Level 1B Reduced Resolution - Sentinel-3	2021-01-01
EO:EUM:DAT:0411	SLSTR Level 1B Radiances and Brightness Temperatures - Sentinel-3	2021-01-01
EO:EUM:DAT:0412	SLSTR Level 2 Sea Surface Temperature (SST) - Sentinel-3	2021-01-01
EO:EUM:DAT:0406	SRAL Level 1B - Sentinel-3	2021-01-08
EO:EUM:DAT:0413	SRAL Level 1A Unpacked L0 Complex echos - Sentinel-3	2021-01-08
EO:EUM:DAT:0414	SRAL Level 1B stack echos - Sentinel-3	2021-01-08
EO:EUM:DAT:0415	SRAL Level 2 Altimetry Global - Sentinel-3	2021-01-08


* Reprocessed data coming during 2022


TRAINING MATERIALS AND MORE INFORMATION


 EUMETSAT gitlab repository
<https://gitlab.eumetsat.int/eumetlab/oceans/ocean-training>

 EUMETSAT knowledge bases
<https://eumetsatspace.atlassian.net/wiki/spaces/EUM/overview>

 EUMETSAT training calendar
<https://trainingevents.eumetsat.int/trui/>







Want more information?



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PROGRAMME OF
THE EUROPEAN UNION



IMPLEMENTED BY

