

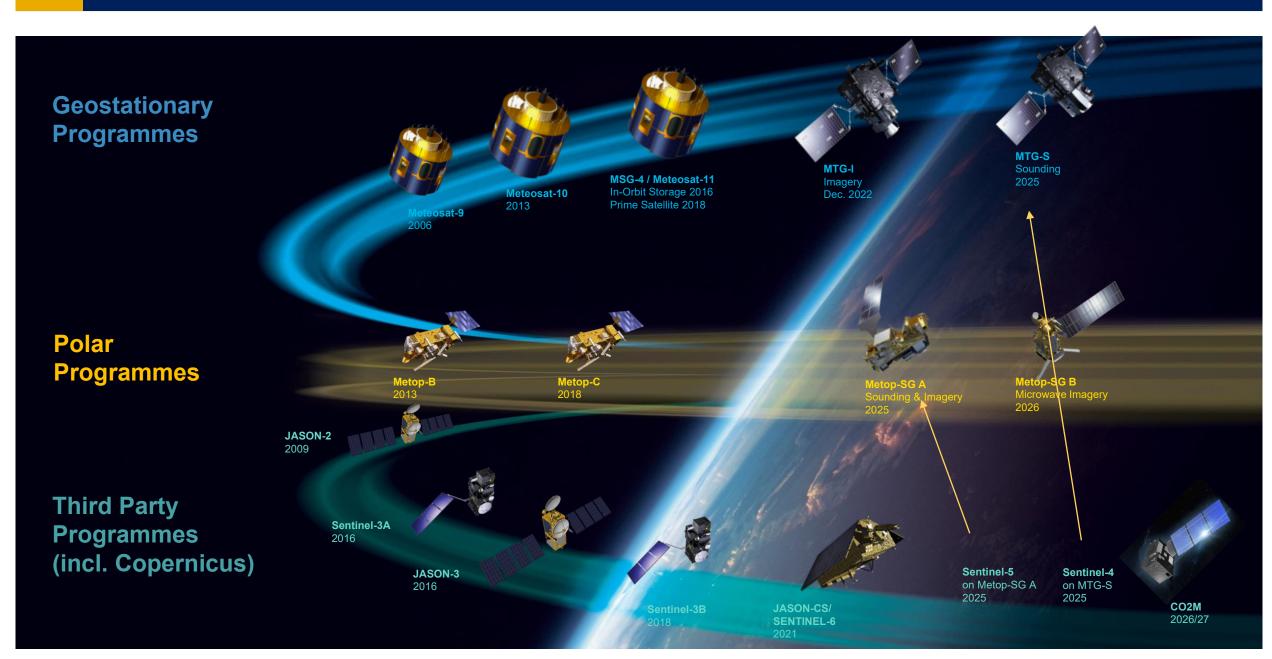




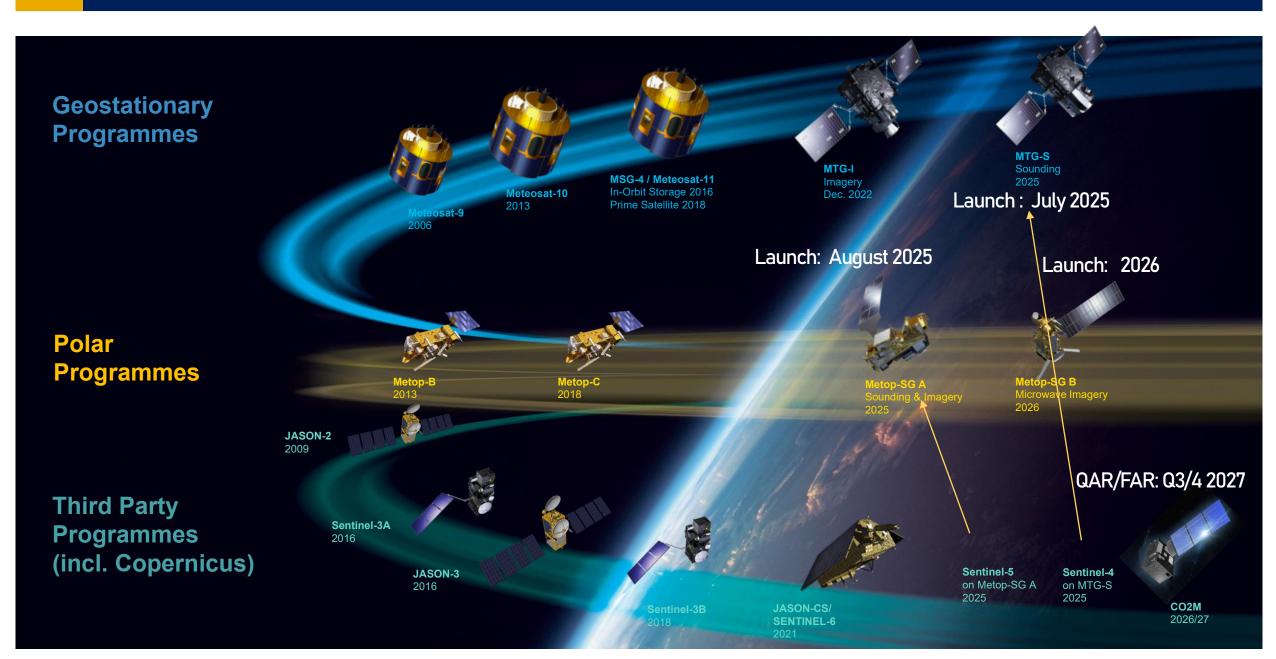




EUMETSAT missions – *current and future*



EUMETSAT missions – *current and future*





The CO2M greenhouse-gas monitoring constellation





Three satellite missions each with 270 km swath:

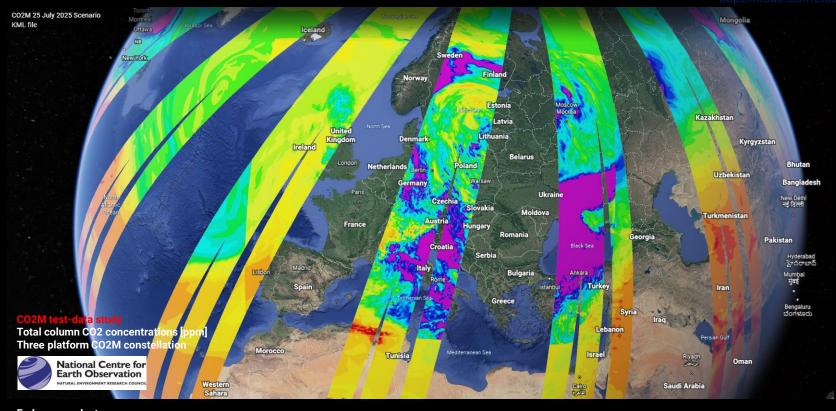
✓ Providing greenhouse-gas data for the Copernicus GHG Monitoring and Verification Support capacity

Three instruments per platform:

- CO2/NO2 push-broom grating spectrometer (CO2I/NO2I)
- Multi-Angle Polarimeter (MAP)
- Cloud Imager (CLIM)

Orbit:

- Sun-synchronous orbit 14 5/11
- 159 orbits repeat cycle (~11 days)
- 735 km altitude
- 11:30 LT
- Platforms in same orbital plane



End user products:

Product	Spatial resolution	Precision	Bias
CO2	4 km ²	0.7 ppm	<0.5 ppm
CH4	4 km ²	10 ppb	<5 ppb
NO2	4 km²	1.5x10 ¹⁵ molec/cm ²	<3.5x10 ¹⁵ molec/cm ²
SIF*	4 km²	0.7 mW m ⁻² sr ⁻¹ nm ⁻¹	$<0.2 \text{ mW m}^{-2} \text{ sr}^{-1} \text{ nm}^{-1}$
Aerosols	16 km²	0.05 AOD, 500 m LH	<0.05 AOD, 500 m LH
Clouds	4 km ²	<1% of FOV	

*Solar Induced Fluorescence





CO2-Monitoring Verification





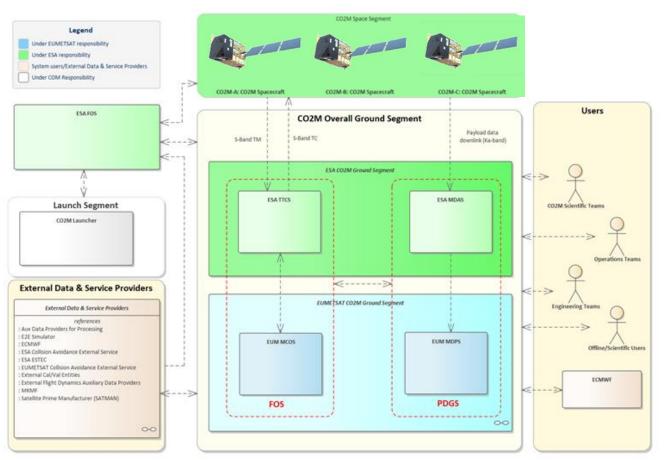
opernicus



Copernicus CO2M System Development

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- ESA is responsible of the Space Segment development and its commissioning
- **EUMETSAT** is responsible of the development of the operational ground segment (with contributions from ESA) and the CO2M system operations in system commissioning and routine phase.



For payload data (PDGS):

- MDPS (Mission Data Processing Sub-Segment, including: L0/L1/L2 Operational Processors; Archival Dissemination) provided by EUMETSAT;
- MDAS (Mission Data Acquisition Sub-Segment) provided by ESA as a service.

For Flight Operations (FOS):

- MCOS (Mission Control and Operations subsegment, including Mission Planning Facility) provided by EUMETSAT;
- TT&C (Telemetry, Tracking and Command) provided by ESA as a service.

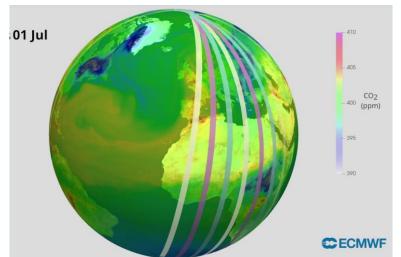


Payload Implementation



Payload Components

- **CO2 I**mager **(CO2I)**: 3 band (1 NIR, 2 SWIR) push-broom imaging spectrometer
- NO2 Imager (NO2I): extra band (VIS) in CO2I
- Multi-Angle Polarimeter (MAP) for aerosol
- CLoud IMager (CLIM) for low cloud & cirrus



MAP optical Star **CLIM** optical trackers CO2+NO2I Flight Calibration Unit

CO2+NO2 spectrometer (underneath the thermal guard)

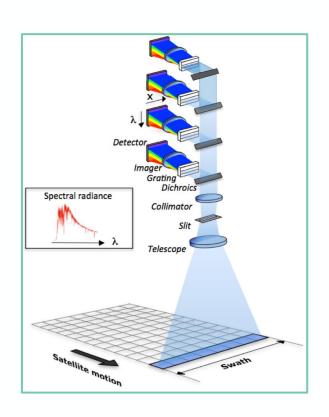
Credits: TASiF

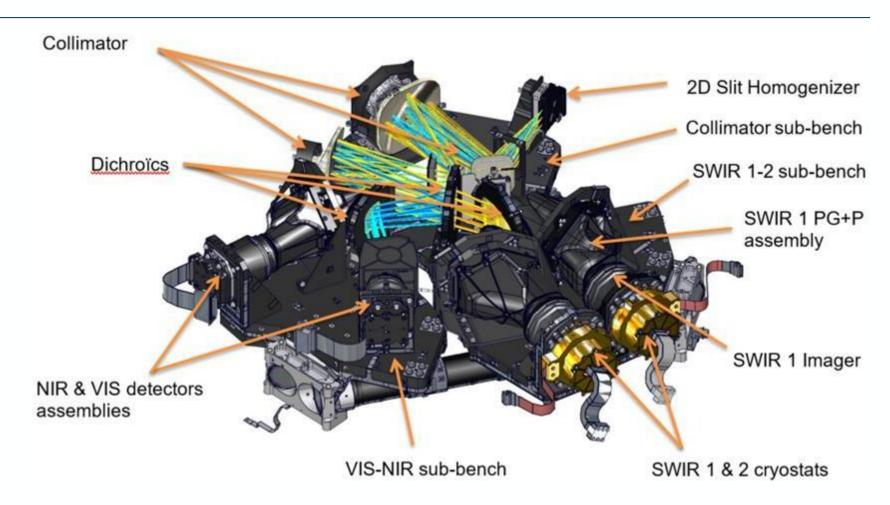
Credits: EMPA



CO₂ & NO₂ Pushbroom Imaging Spectrometer





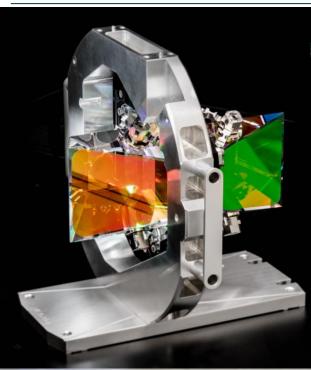


Credit Thales Alenia Space



Opernicus Some other impressions





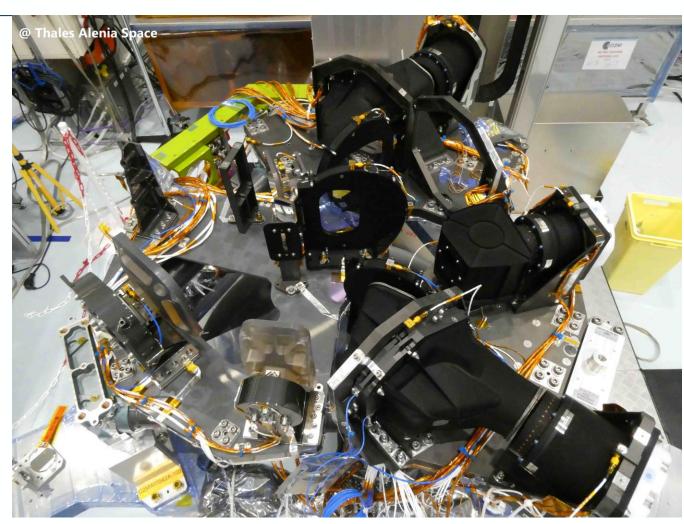
Credit IOF Fraunhofer

Prism + Grating + Prism



Entrance slit with 110 fibers

Credit Optec



Credit Thales Alenia Space

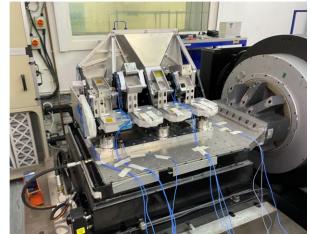


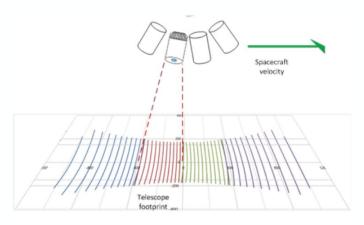
MAP and CLIM



Multi-angle polarimeter (MAP):

- 40 viewing angles (+/- 60°), plus 8 more @larger angles
- Spatial resolution: 4x4 km2 while sampling < 1x1 km2

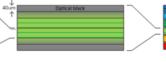




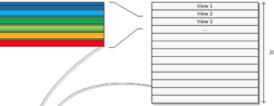
Credit Thales Alenia Space 2 repeats of a polarizer triplet in

6 channels in a view

Triplet of aligned polarizer and



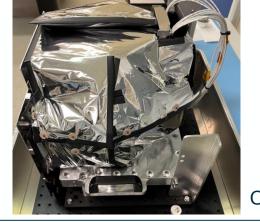
a single channel



Cloud Imager

Binning on-ground, specs @400m

Band	Band center	Band width	Native sampling (ALTxACT)
CLIM-1	670 nm	20 nm	94m x 87m
CLIM-2	753 nm	9 nm	94m x 87m
CLIM-3	1378 nm	15 nm	376m x 163m



Credit OIP Belgium

>12 views in a telescope



Copernicus CO2M Mission – Status

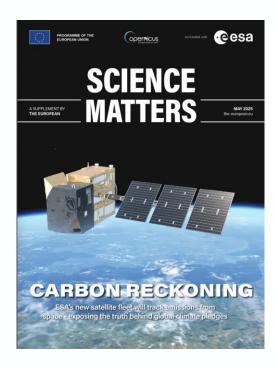


Project status:

- First satellite Acceptance Review 08-2027
- Second satellite Acceptance Review 02-2028
- Third satellite is scheduled in 2029





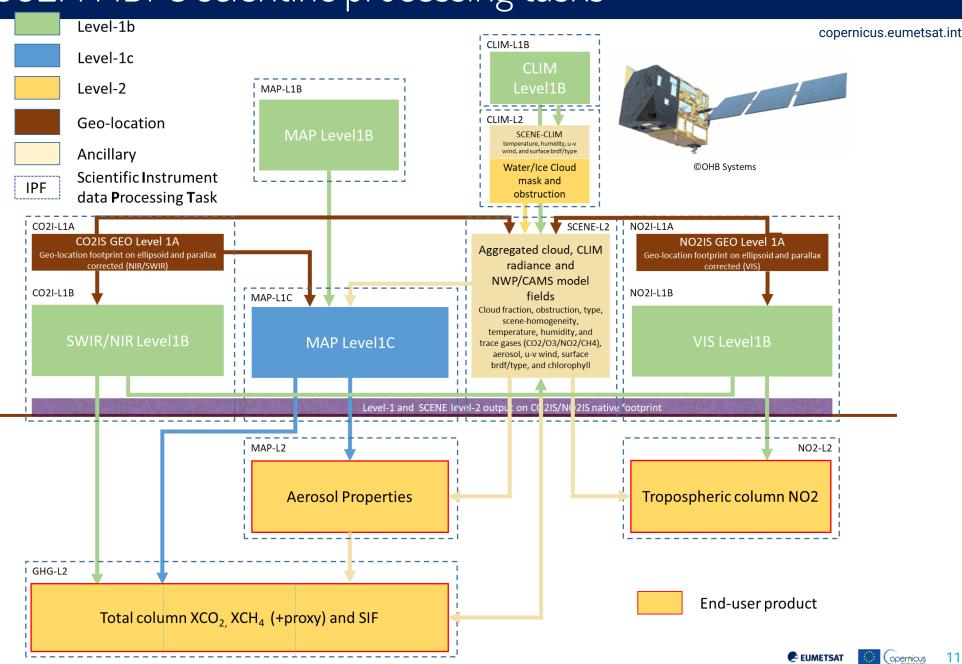


EUMETSAT CO2M MDPS scientific processing tasks

CO2M Mission Data Processing System

Make one "hyper-GHG/NO2-instrument" out of three!

Below this level: everything is co-registered or provided at the CO2I/NO2I spectrometer footprint



EUMETSAT CO2M MDPS scientific processing tasks

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CO2M Mission Process

Status of CO2M operational processor developments:

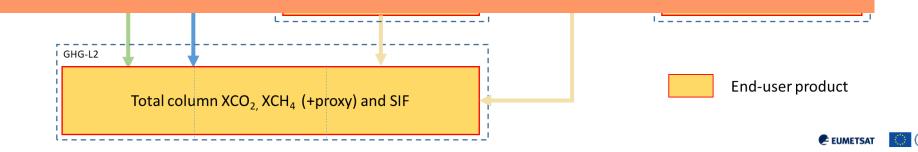
CDR successfully passed in Q1 2025

Make or "hyper-G 'instrume out of th

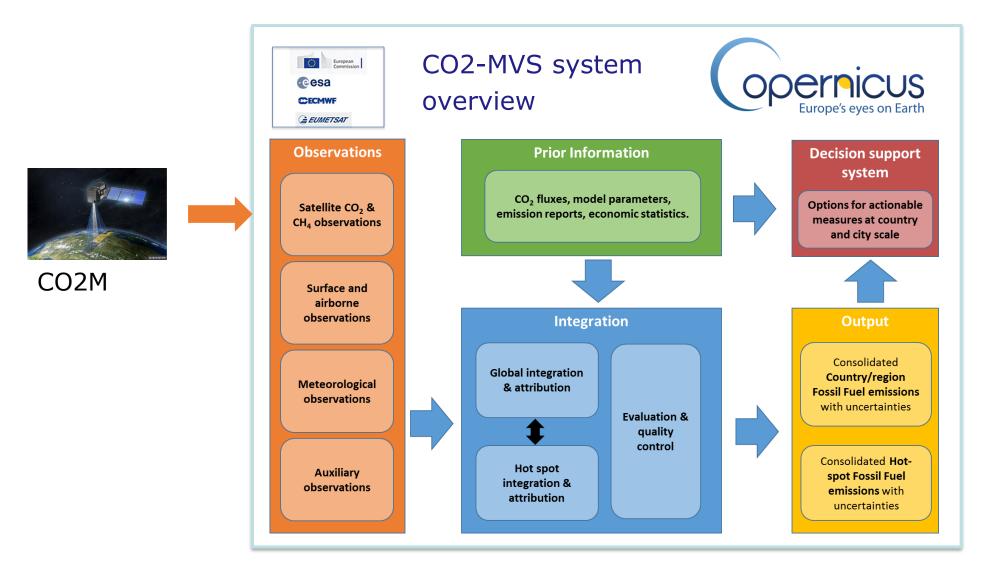
- First fully functional processor versions handed over for implementation in EUMETSAT CO2M processing sub-segment
- Scientific developments and improvements ongoing

Below this I co-registere CO2I/NO2I stootprint

 Next major versions expected after ground-calibration campaigns in 2026



Anthropogenic CO2/CH4 Monitoring and Verification Support (MVS) Capacity









CO2I/NO2I observation statistics

Estimated amount of data (per dayside orbit, per satellite):

Number of measurements (CO2I/NO2I): ~1.1 million

Number of clear sky GHG retrievals: ~200.000

Level-1 / Level-2 GHG product sizes: ~35 / 5 GB

All CO2M products: ~320 GB

Estimated number of possible XCO2/XCH4 L2 retrievals:

Worst case (max land) Scenario

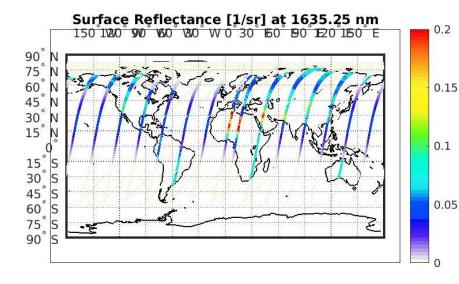
Orbit type	Worst case (max land) Scenario	Number of observations with surface albedo > 0.03	20 % of total (land/water) used for GHG retrieval due to cloud (<1%) and AOD<0.5	
Nadir	Land	630105	121215	
	Water (glint>0.03 albedo)	25971	131215	
Pitched	Land	722035	201586	
	Water (glint>0.03 albedo)	285895		

Average (full day) Scenario

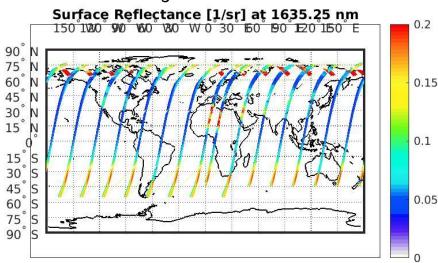
Orbit type	Average (full day) Scenario *)	Number of observations with surface albedo > 0.03	20 % of total (land/water) used for GHG retrieval due to cloud (<1%) and AOD<0.5	
Nadir	Land	250530	98065	
	Water (glint>0.03 albedo)	249827		
Pitched	Land	239793	200222	
	Water (glint>0.03 albedo)	720592		

These figures are per Satellite per orbit.

"Nadir orbit" configuration



"Pitched orbit" configuration



•

CO2M CO2I spectrometer false colour radiance image (VIS/NIR/SWIR)

CO2M 6-orbits testdata set of top-ofatmosphere radiances for a constellation of 3 platforms

"West" platform continuously pointing towards the sun-glint spot

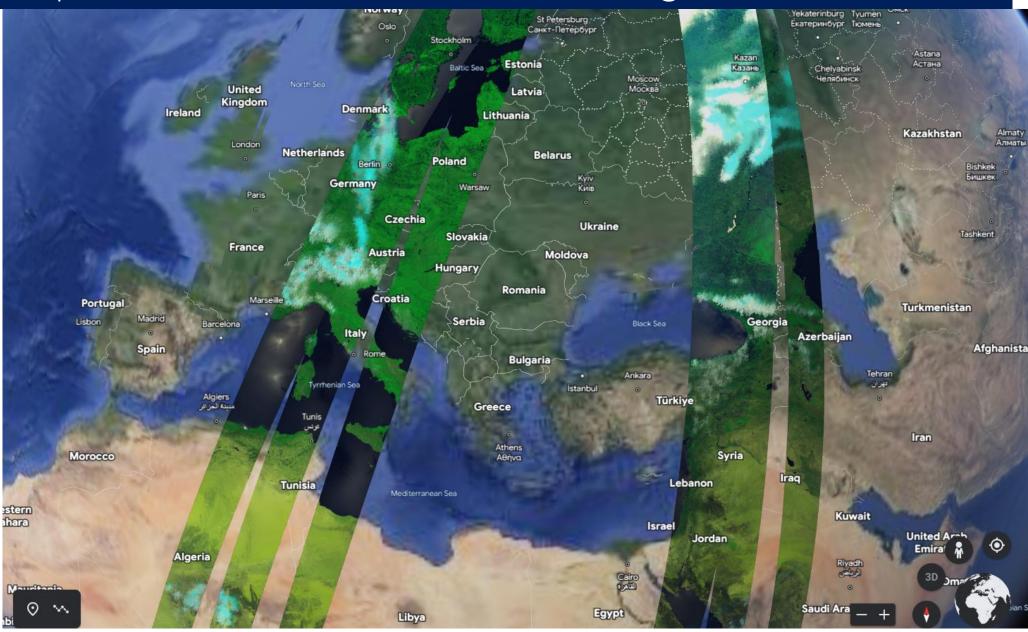
3rd July 2025

- EU west (pitch on)
- 2. EU cent (pitch: off)
- 3. EU east (pitch: off)

23rd Sep 2025

- 1. Asia cent (pitch: off)
- Asia west (pitch: on)
- 3. Asia east (pitch: off)







Multiple GHG algorithm approach – FOCAL, RemoTAP, FUSIONAL-P

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Complementarity, resilience and performance:

- ✓ Different physical retrieval approaches Full-physics (RemoTAP/FUSIONAL-P), scattering approximation (FOCAL);
- ✓ Different heritage lines (SCIAMACHY, OCO-2, GOSAT, Sentinel5p/5, 3MI, SPEXOne, POLDER);
- ✓ Complementary exploitation of information content of CO2M payload information (CO2I/MAP/CLIM);
- ✓ Complementary processing cost (cheap, medium, heavy).

CO2M platform information content usage:

Processing step	GHG L2 Input		
	RemoTAP	UoL-FP-FUSIONAL-P	FOCAL
Pre	SCENE-L2	SCENE-L2	SCENE-L2
Main	CO2I L1B+MAP-L1C	CO2I L1B+MAP-L2	CO2I L1B
Post			MAP-L1C/L2+CLIM L2

Prelim. processing cost estimates:

GHG L2:

(3 algorithms)

< 3700 cpus / platform*

Full system processing:

(including all instruments level-1 and 2)

< 4200 cpus / platform*)

*) Multiple platforms will require less per platform on average because of cpu re-usage



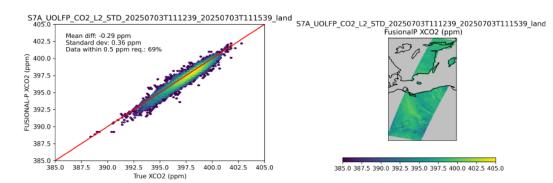
Early results from synthetic data (GHG level-2 XCO2)

Three GHG algorithms for CO2M





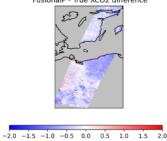
Processing step	GHG L2 Input		
	RemoTAP	UoL-FP-FUSIONAL-P	FOCAL
Pre	SCENE-L2	SCENE-L2	SCENE-L2
Main	CO2I L1B+MAP-L1C	CO2I L1B+MAP-L2	CO2I L1B
Post			MAP-L1C/L2+CLIM L2

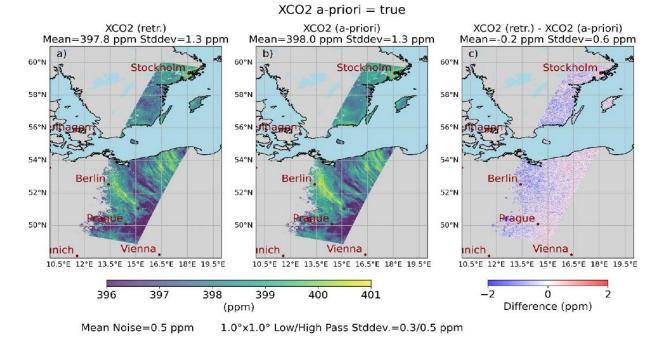


d S7A UOLFP CO2 L2 STD 20250703T111239 20250703T111539 land FusionalP - True XCO2 difference

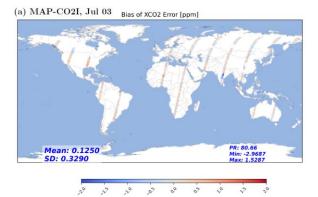


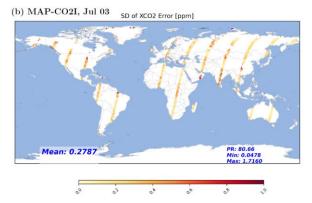






RemoTAP SRON



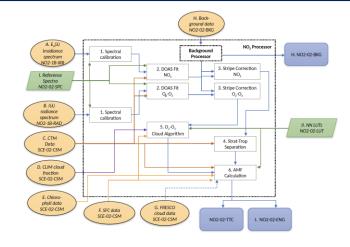


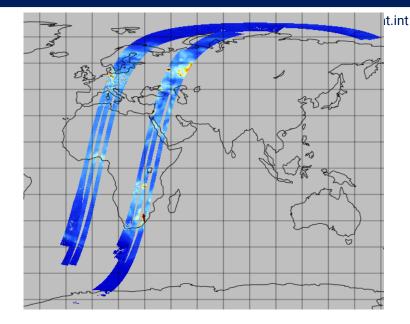


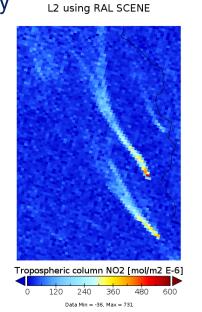
The CO2M NO2 level-2 product

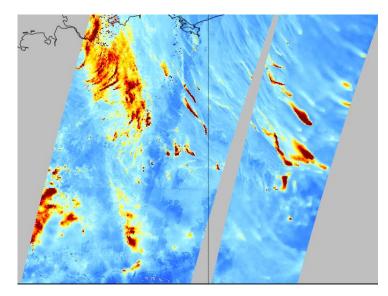
Based on heritage from OMI/TROPOMI NO2 algorithms

- DOAS fit left unchanged
 - CO2M: solar irradiance measurements
- > Troposphere-stratosphere separation:
 - No assimilation CTM system as in TROPOMI
 - Use of CAMS global model data
 - As of CAMS IFS cycle 48R1: full stratospheric chemistry
- Cloud correction:
 - 02-02 DOAS (VIS) with scattering cloud model
 - O2-A (NIR) as fallback
 - CLIM cloud information
- ➢ Air-mass factors (AMF):
 - Hi-res surface BRDF/DLER information
 - Scattering cloud model
 - CAMS NO2 a-priori profile shape (~40 x 40 km2)



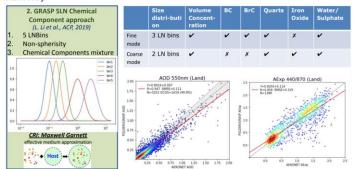






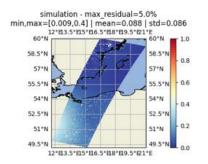
CO2M MAP level-2 aerosol product

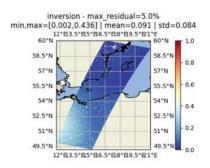
The GRASP/Components aerosol model has been selected for MAP with 3x3 MAP L1C pixels fitted simultaneously.

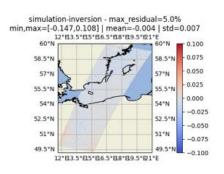


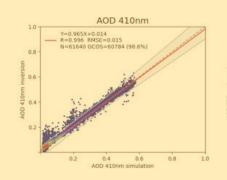
The GRASP (Generalized Retrieval of Aerosol and Surface Properties) is used for the simultaneous retrieval of both aerosol and surface properties.

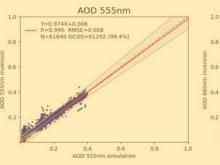
Aerosol retrieval performed in the VNIR, is used for an atmospheric correction in the SWIR for the CO2 retrieval.

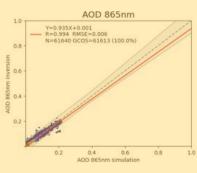


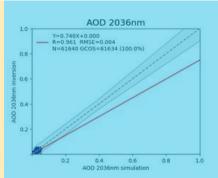












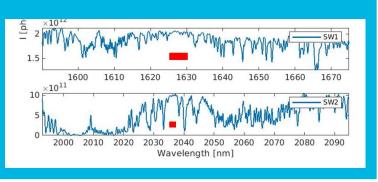
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MAP Band	Wavelength
VNIR-1	410 nm
VNIR-2	443 nm
VNIR-3	490 nm
VNIR-4	555 nm
VNIR-5	670 nm
VNIR-6*	753 nm
VNIR-7	865 nm



CO2I SWIR1/2 background reflectance

- SWIR 1: 1620-1627.5 nm
- SWIR 2: 2034.9-2037.5 nm





CO2M cloud information from CLIM data for GHG/NO2/AOD

clim_data/	
scene_inhomogeneity	[scanline×ground_pixel × clim_ch *)]
cloud_fraction	[scanline×ground_pixel x cloud_area]
cloud_obstruction	[scanline×ground_pixel]
cloud_top_height	[scanline×ground_pixel]
cirrus_fraction	[scanline×ground_pixel x cirrus_area]
cirrus_obstruction	[scanline×ground_pixel]
cloud_optical_thickness	[scanline×ground_pixel]
cloud_optical_thickness_uncertainty	[scanline×ground_pixel]
cirrus_distance	[scanline×ground_pixel x cloud_area]
cloud_distance	[scanline×ground_pixel x cirrus_area]

Cloud_shadow_mask [scanlinexground_pixel]

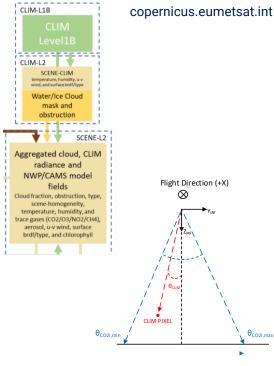
*) clim_ch=CLIM1/2

cloud_area / cirrus-area

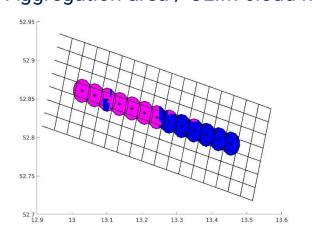
4 areas covered

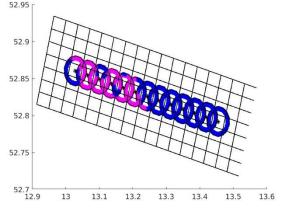
Area around CO2I/NO2I centre pixel lat/lon:

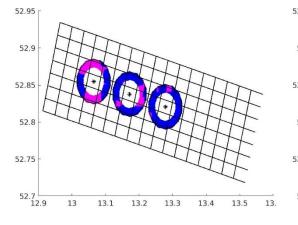
semimajor = [0.02 0.04 0.06 0.08] semiminor = [0.02 0.04 0.06 0.08]

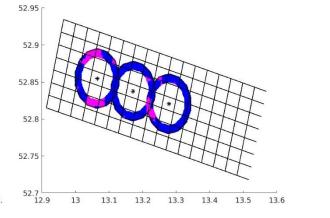


Sub-set of CO2I swath: Aggregation area / CLIM cloud mask:









circle 1

circle 2

circle 3 (only every 3rd plotted)

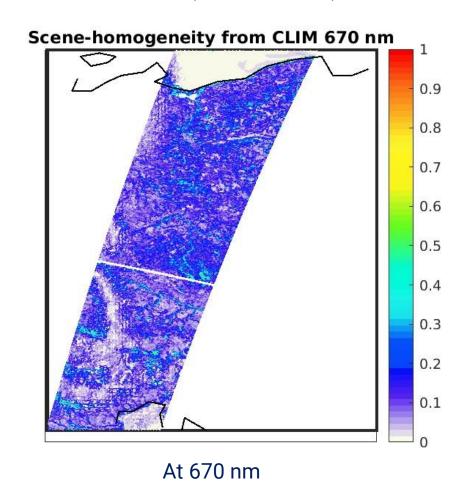


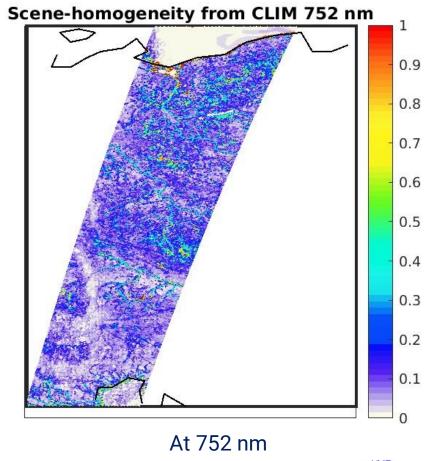


CO2M scene-inhomogeneity information from CLIM for MAPL1C/GHG/AOD/NO2

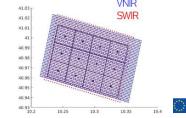
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Scene-inhomogeneity: std(I_{vis/nir})/mean(I_{vis/nir})





~200 CLIM measurements aggregated to CO2I/NO2I footprint:





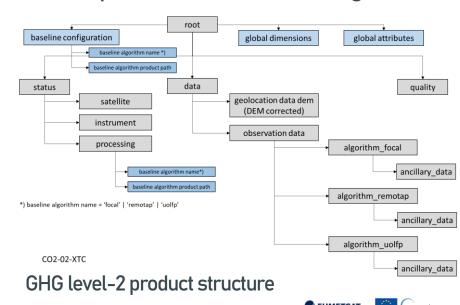
CO2M user products

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- CO2M products Level-1 to Level 2 will be made available from the EUMETSAT Data Store without restrictions!
- Products will be available in **netcdf4 format** through Data Store after/during commissioning once products are in pre/operational status.
 - ✓ All products are **self-describing** with meaningful parameter naming and clear and meaningful long-name description, plus all additional attributes according to the CF standard.

Tailoring of the GHG level-2 product will be possible through the data-portal on the following perimeters:

- ✓ Region and period of interest
- **Parameters**
- Various **means of access** are provided by the data-store:
 - Web based data-portal (reduced flexibility)
 - API driven tailoring (python, Jupyter notebook) large flexibility



Introducing the EUMETSAT Data Store



EUMETView



EUMETSAT Data store



Data Tailor





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.

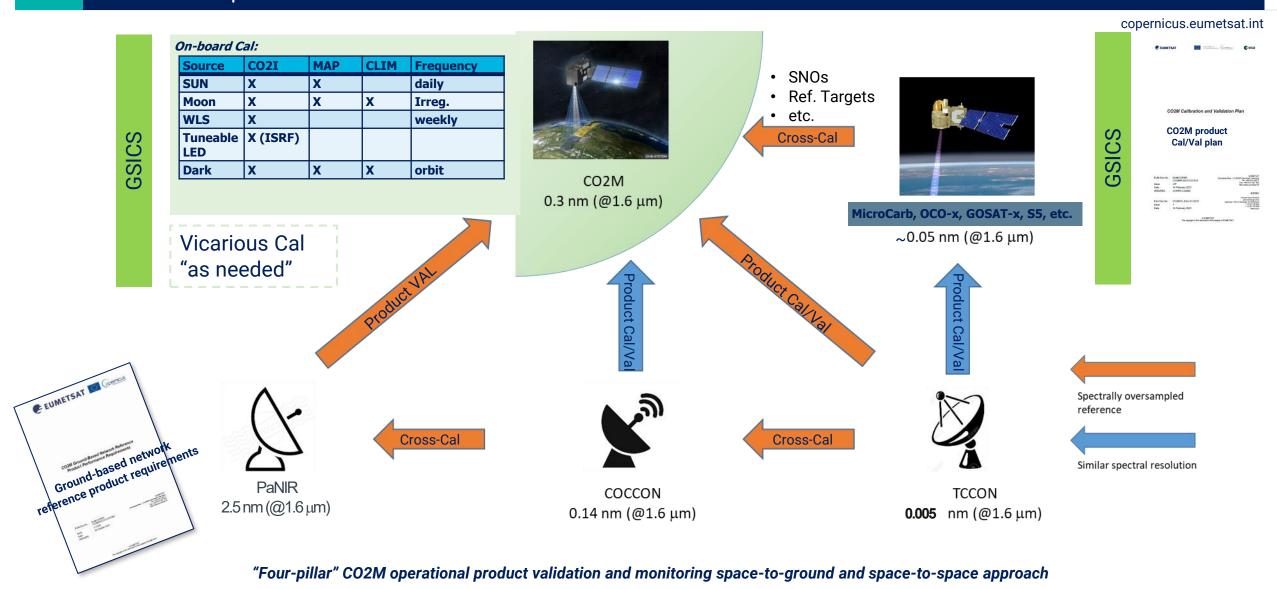


Service available at: https://data.eumetsat.int





"Four+-pillar" CO2M validation



+ NDACC- FTIR CH4 + Pandonia/NDACC-NO2 + Aeronet for AOD



CO2M overall Cal/Val strategy for commissioning

The accumulation of significant and representative statistics during the course of product commissioning (and to be continued thereafter) is of highest priority:

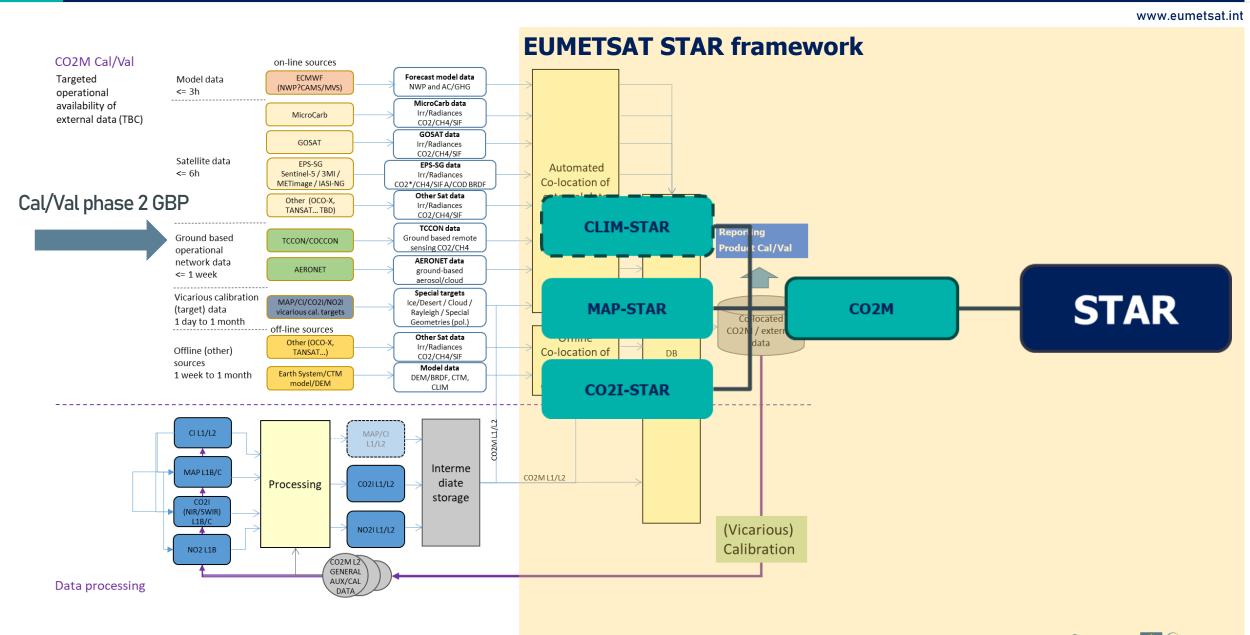
- To discriminate the different bias contributors
- To make bias emerge from noise

Means

- Priority on continuous collection of reference data with high automation, low human resource need and low carbon cost
- Significant contribution of in-flight accumulated reference data (vicarious statistical and/or from stable well-known targets)
- Re-use of existing operational validation and monitoring environments (see next slides)
- Methodologies and capabilities are developed as part of individual product science support services, including two dedicated Cal/Val studies
- Dedicated validation support teams and adequate will be put in place per product (Cal/Val plan updated section on roles and responsibilities - see below)
- Dedicated campaign data as available

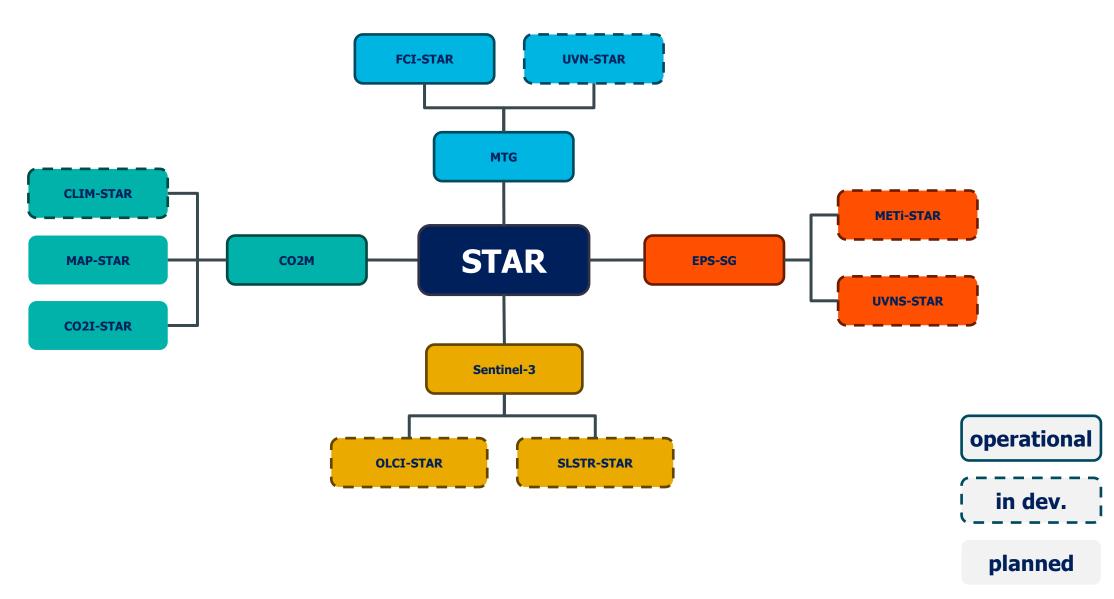


EUMETSAT CO2M CalVal facility (conceptual)



STAR – Framework

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EPS-SG S5/MTG S4/C02M Cal/Val Plan

UVNS-STAR

MICMICS

PIQMICS

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Joint plan for activities of calibration and validation for Sentinel-4, Sentinel-5, and CO2M during commissioning

Ad-hoc activities

- Formal testing
- **CKD Validation and Update**

Performance monitoring

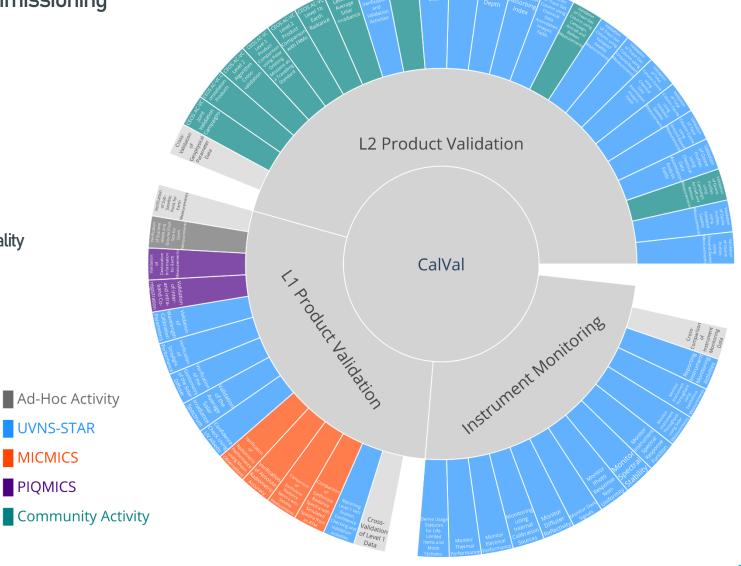
- Routine processing using Offline Environment (e.g. UVNS-STAR, MICMICS, PIQMICS)
- Scheduled reporting of instrument and product quality

Community activities

- AOCall for external L2 products validation
- Service Contracts for L1 and L2 activities

Offline Tool Functional Testing:

- Dry run wrap-up: 05th Sept 2024
- Delta dry run wrap-up: 03rd June 2025

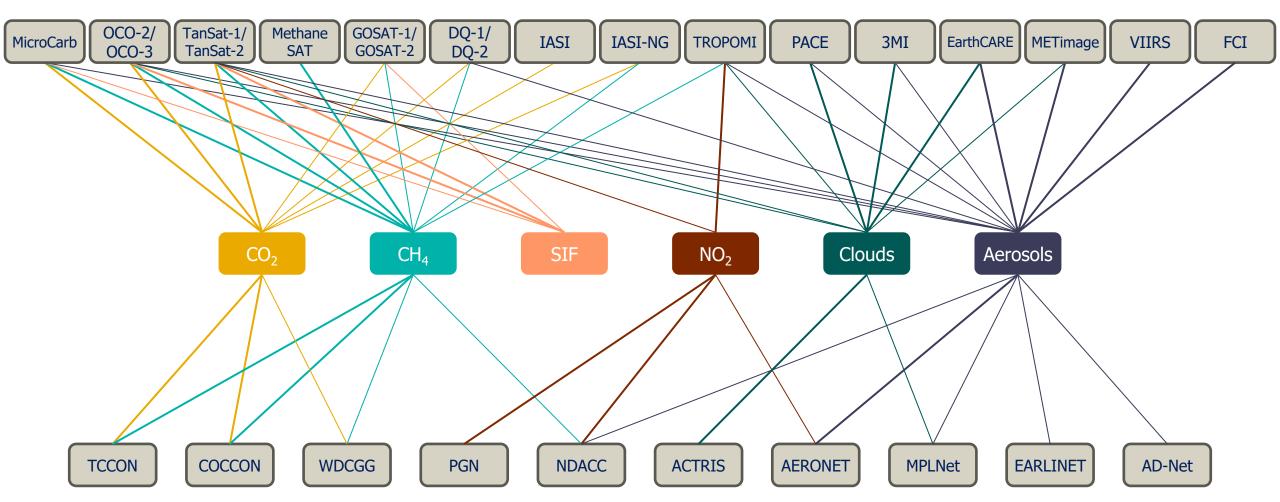




Validation Datasets

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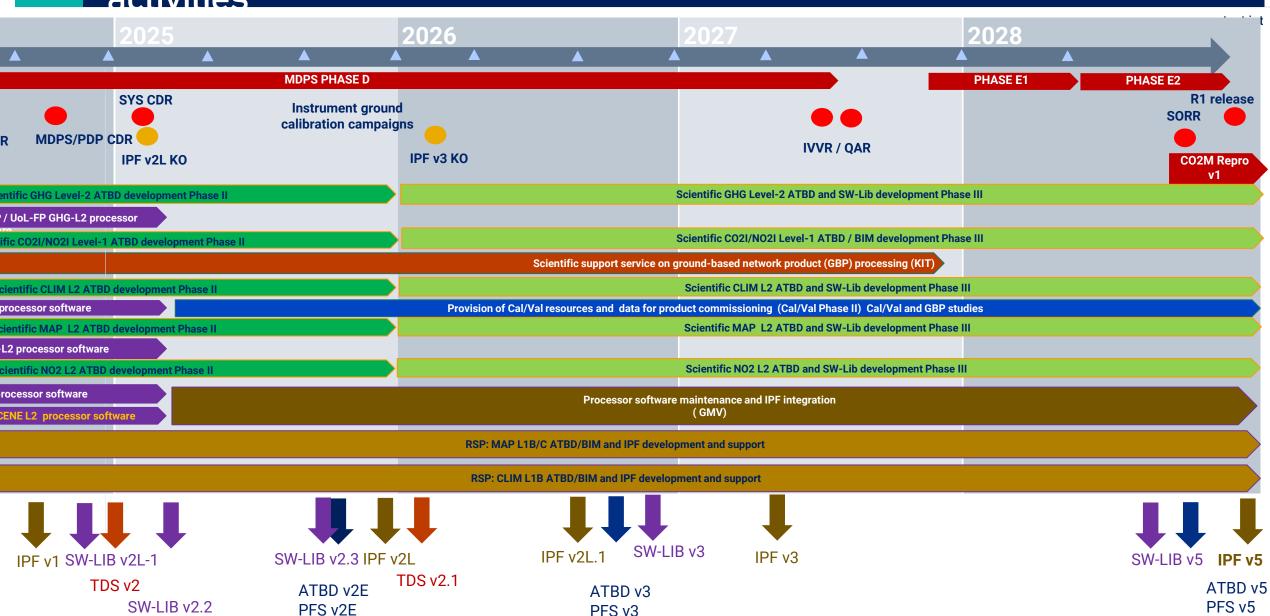
Data sets from satellite instruments



Data sets from Fiducial Reference Measurements (FRM)

e

EUMETSAT Mission Data Processing System science and development activities



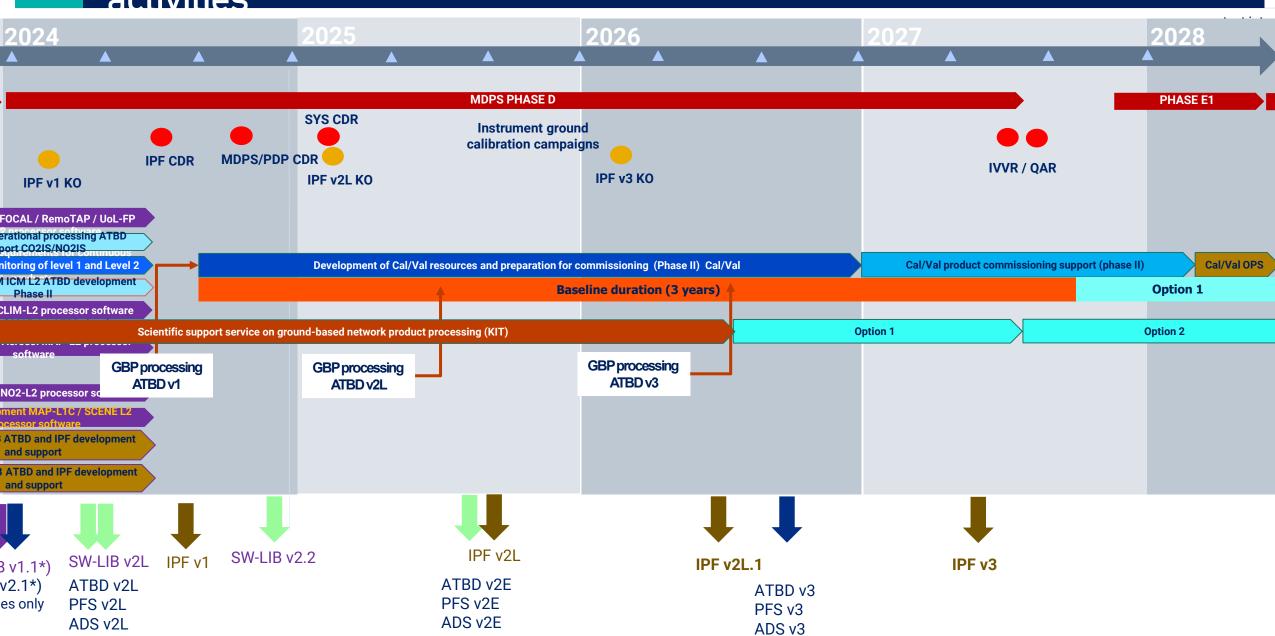
ADS v3

ADS v2E

ADS v5



EUMETSAT Mission Data Processing System science and development activities





Summary Status of Cal/Val developments

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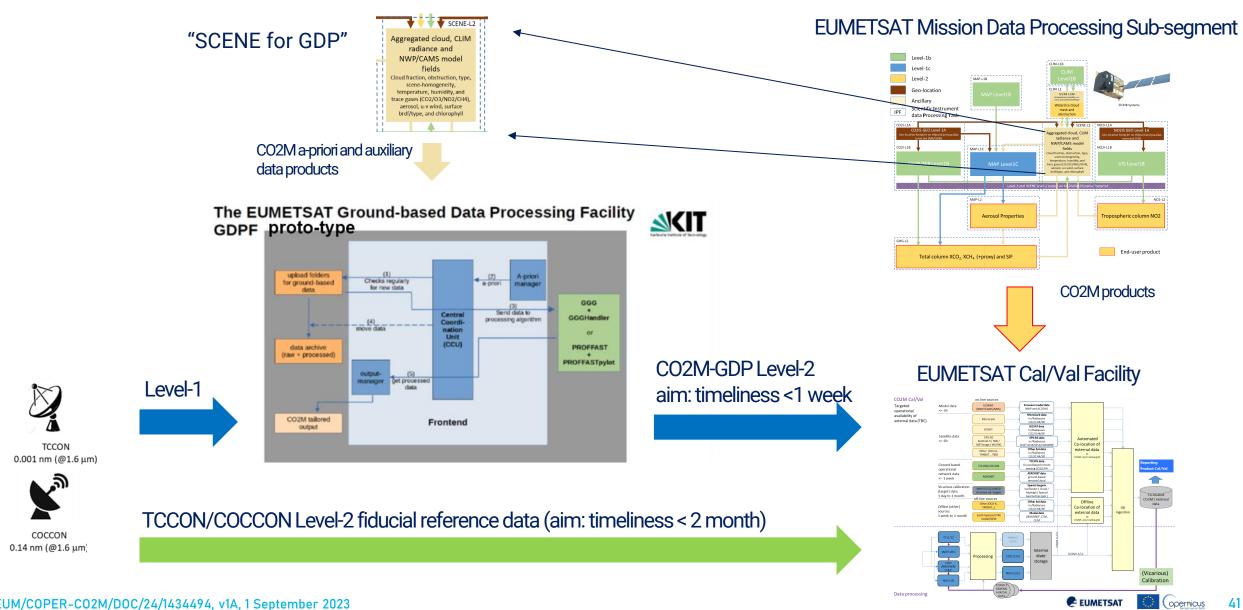
✓ Phase 1 of CO2M product validation study (GBP requirements, network-status, and validation methods) ended in June 2024.

➤ Definition of Ground-Based Product (GBP) ongoing (KIT GBP service). V2L of ATBD and Input/Output definition expected for Summer 2025.

□Phase 2 of CO2M product validation study - Commissioning preparation, evolution of validation methods, interface for provision of network/validation data, provision and processing of data - kick-off 3rd June 2025.

Ground-based data processing for CO2M product Cal/Val "towards operations"

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First and next steps for Cal/Val phase 2 (1/2)

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- Finalise the ground-based product requirements document including performance, latency and availability
- Update and maintain the ground-based station/network and overpass statistics and station footprint database

 Prepare for the management and contractual framework (managed and carried out by BIRA) to receive ground-based reference data according to the requirements and against a data provision service fee



First and next steps for Cal/Val phase 2 (2/2)

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 Invite Cal/Val phase 2 advisory board (Frank Hase, Thorsten Warneke, Emmanuel Mahieu) to all progress meeting and for dedicated advisory board meetings (yearly TBC))

• Invite all interested data-provider to a CO2M Cal/Val GBP data-provision meeting beginning of 2026.

➤ Announcement of intention to procure data ("ground-based data provision service") is planned for Q1 2026.



CO2M Mission Data Processing Sub-segment developments

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Thank you!

































Conclusions and discussions

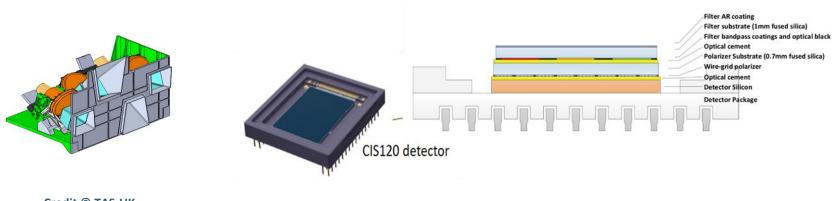
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- The CO2M processing system is designed to provided level-1b/c radiance and auxiliary information from three instruments and from all auxiliary data providers as consistent as possible co-registered and collocated at a common reference grid ("hyper-instrument") and as common input to all CO2M level-2 processors.
- Since different GHG algorithms react differently to the propagation of (complex) information content and deficiencies in instrument performance, robust and reliable results can only be expected from multiple algorithms with significant differences in their exploitation of the overall information content of the overall system (also true for ground-based data retrievals!).
- For CO2M product Cal/Val the accumulation of significant and representative statistics during the course of product commissioning (and to be continued thereafter) is of highest priority in order to discriminate the different bias contributors and to make bias emerge from noise.
- Priority on continuous collection of reference data with high automation, low human resource need and low carbon cost
- Significant use of in-flight accumulated reference data (vicarious statistical and/or from stable well-known targets) for product Cal/Val
- The aim is to re-use existing operational validation and monitoring environments (S4/S5/3MI) in EUMETSAT



CO2M MAP polarimeter focal plane design

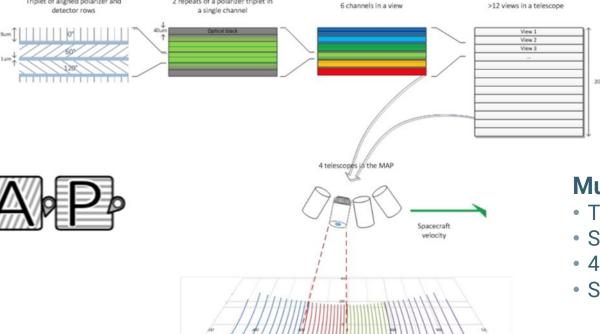
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Triplet of aligned polarizer and

2 repeats of a polarizer triplet in

Credit © TAS-UK



footprint

Multi-angle polarimeter

Target species:

Aerosol

• Spatial resolution (native):

1 km²

- 43 views $(0 > OZA < 60^{\circ})$ (out of 48 native)
- Spatial resolution (aerosol product): 4 km²

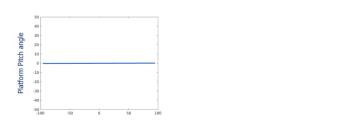


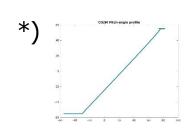
Nominal and pitched ("sun-glint"-pointing) platform orbits for CO2M

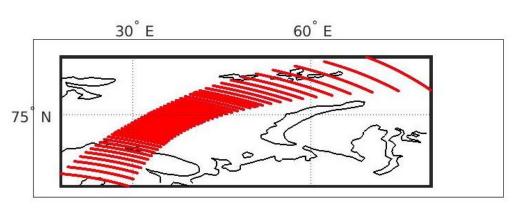
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*)



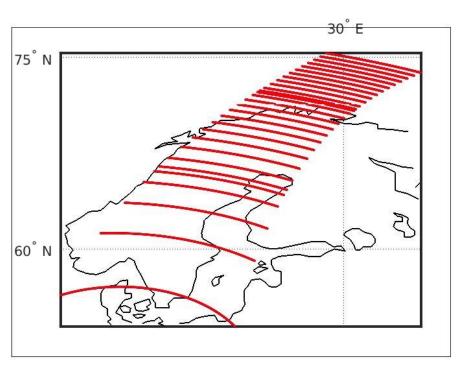






Platform pitch angle at 0 deg (all 41 views +-60 degrees)

Pitched Platform Orbit

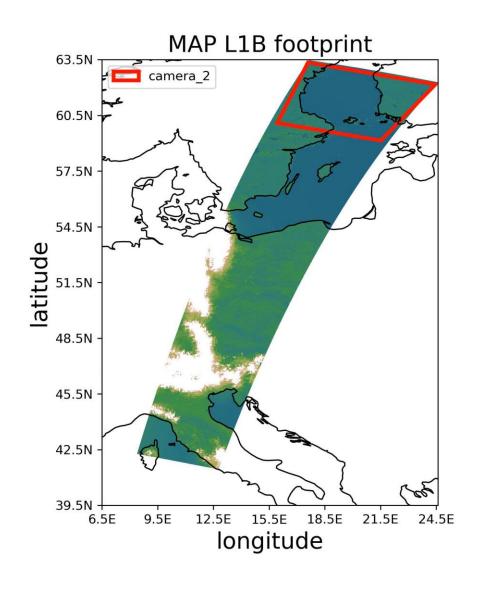


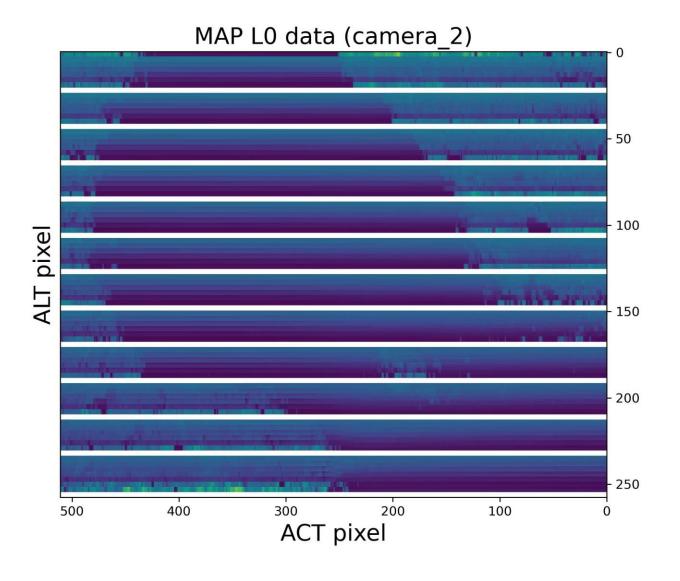
Platform pitch angle at 50 deg forward looking (all 29 valid views +-60 degrees)

^{*)} Cox-Munk model for water (glint) reflectance at 7 m/s averaged wind-speed.

Simulation of CO2M MAP level-0 data - detector level

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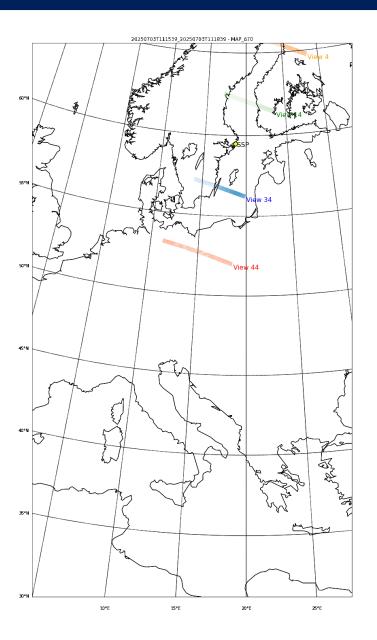
Simulation of CO2M MAP L1 data – L1B to L1C co-registration to CO2I grid

The CO2M MAP L1B

2 granules (total 6 minutes)

Nadir pointing

4 views out of 48 are shown

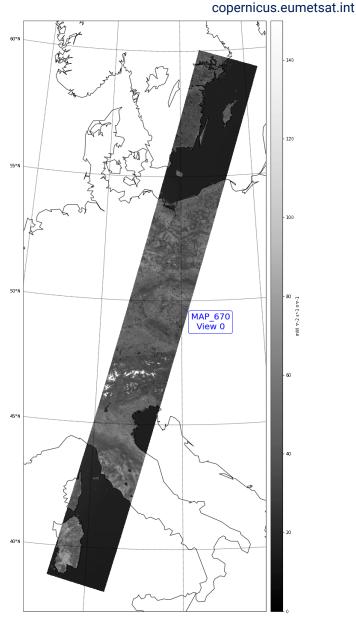


The CO2M MAP L1C

2 granules (total 6 minutes)

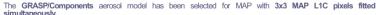
Nadir pointing

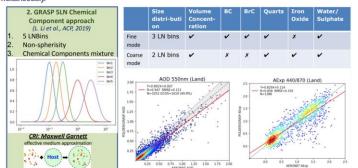
45 Co-registered views



CO2M MAP level-2 aerosol product for pathlength correction

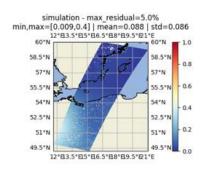
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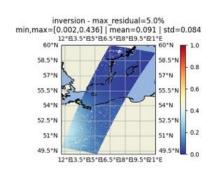


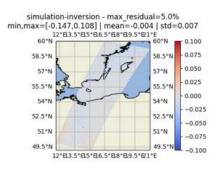


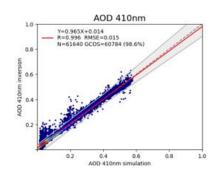
The GRASP (Generalized Retrieval of Aerosol and Surface Properties) is used for the simultaneous retrieval of both aerosol and surface properties.

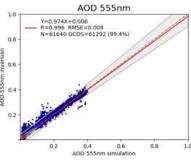
Aerosol retrieval performed in the VNIR, is used for an atmospheric correction in the SWIR for the CO2 retrieval.

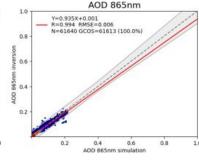


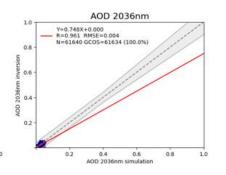








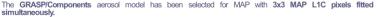


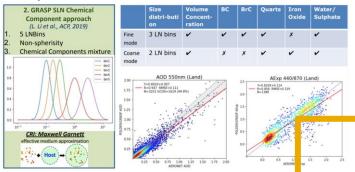




CO2M MAP level-2 aerosol product for pathlength correction

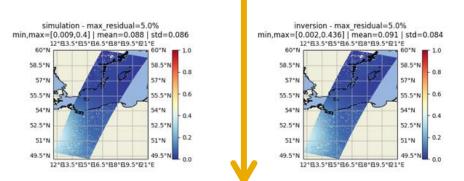
copernicus.eumetsat.int

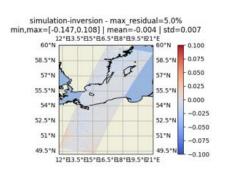


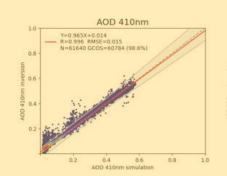


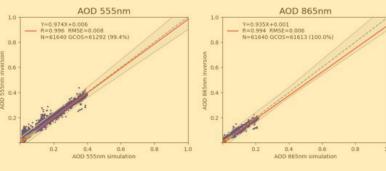
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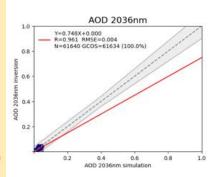
Aerosol retrieval performed in the VNIR, is used for an atmospheric correction in the SWIR for the CO2 retrieval.











MAP Band	Wavelength
VNIR-1	410 nm
VNIR-2	443 nm
VNIR-3	490 nm
VNIR-4	555 nm
VNIR-5	670 nm
VNIR-6*	753 nm
VNIR-7	865 nm

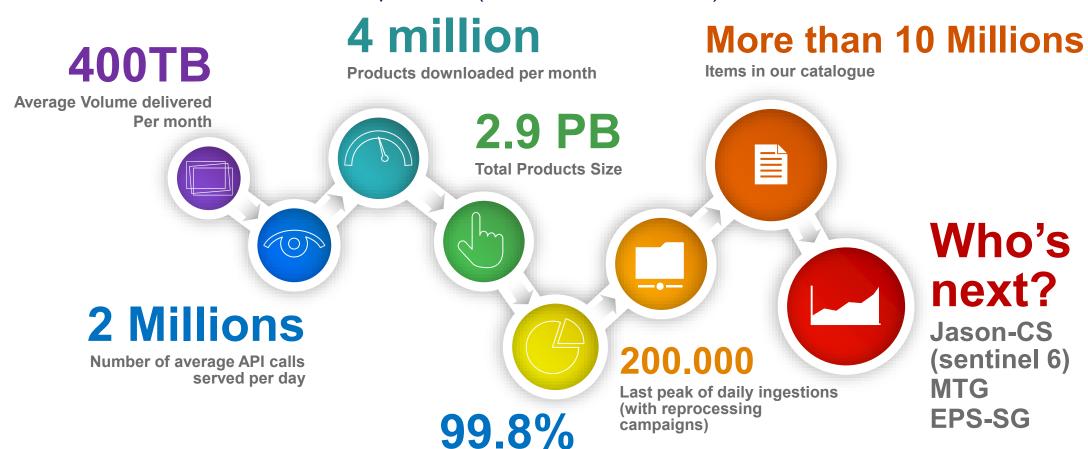
Data Tailor





European Weather Cloud

The EUMETSAT catalogue boasts a wide range of data products from several missions including Metop, Meteosat First and Second Generations and Copernicus (Sentinel 3, Sentinel-6).



Data Store average monthly

availability during last 18 months



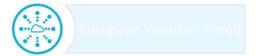
EUMETView

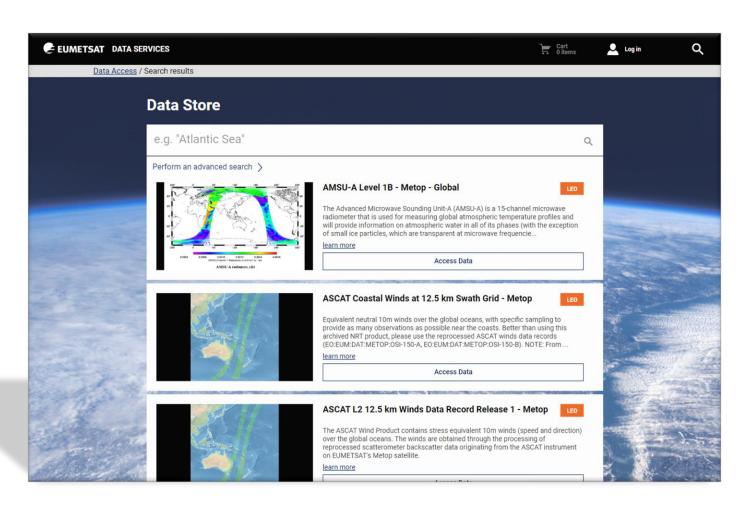




Data Tailor







Browse the catalogue of NRT, historic and CDR collections



Introducing the EUMETSAT Data Store



EUMETView

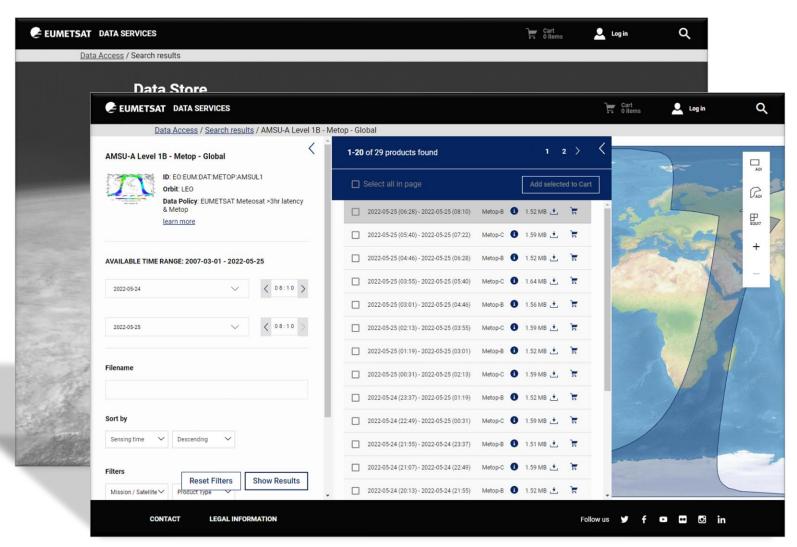




Data Tailor

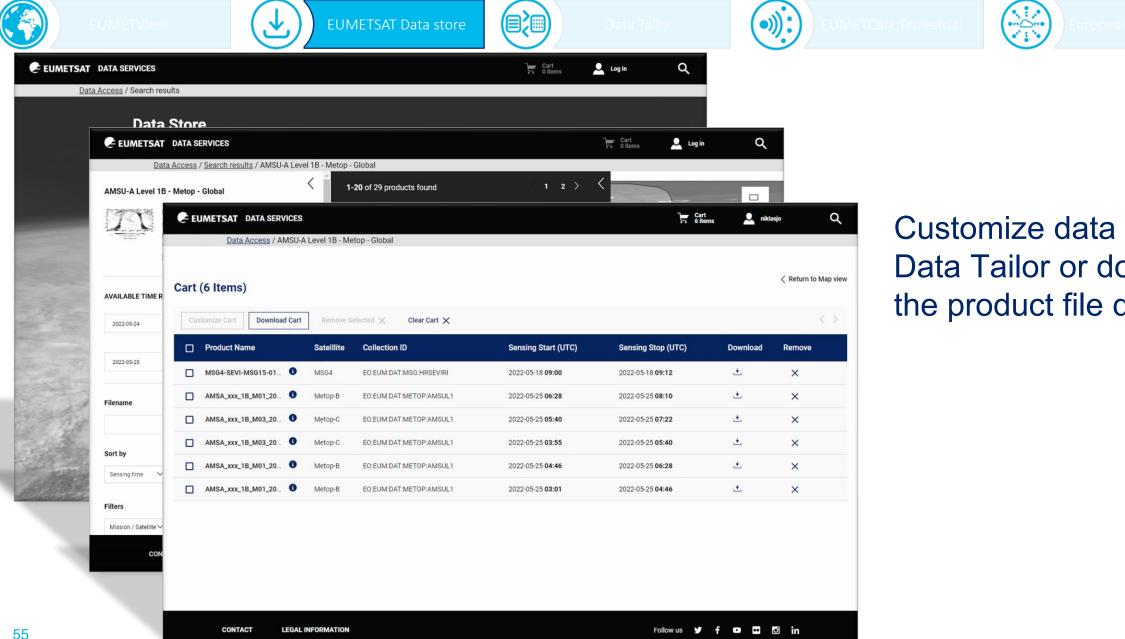


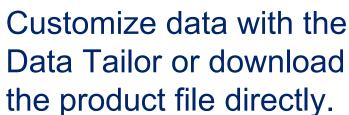




Search data in a collection matching your date&time and ROI selection

Introducing the EUMETSAT Data Store









EUMETView



EUMETSAT Data store



Data Tailor





European Weather Cloud

Data Store Interfaces

Online interface

- 1 Download API
- 2 OpenSearch API
- 3 REST API
- 4 Subscription API (coming soon)

- Download data using URL, command line and Python based options using ID or collection and sensing time
- Search Data Store at product and collection levels. Filter selections by time, ROI, satellite, timeliness
- Navigate/Browse products and collections by date and spatial coverage / footprint
 - Notification service for new product availability



Python and Jupyter notebook examples snippets available for each API



Discovery

POST /csw/record/_search

OPTIONS /csw/record/_search

GET /csw/_search

POST /csw/_search

GET /csw/_search

GET /csw/_search



Introducing the EUMETSAT Data Tailor





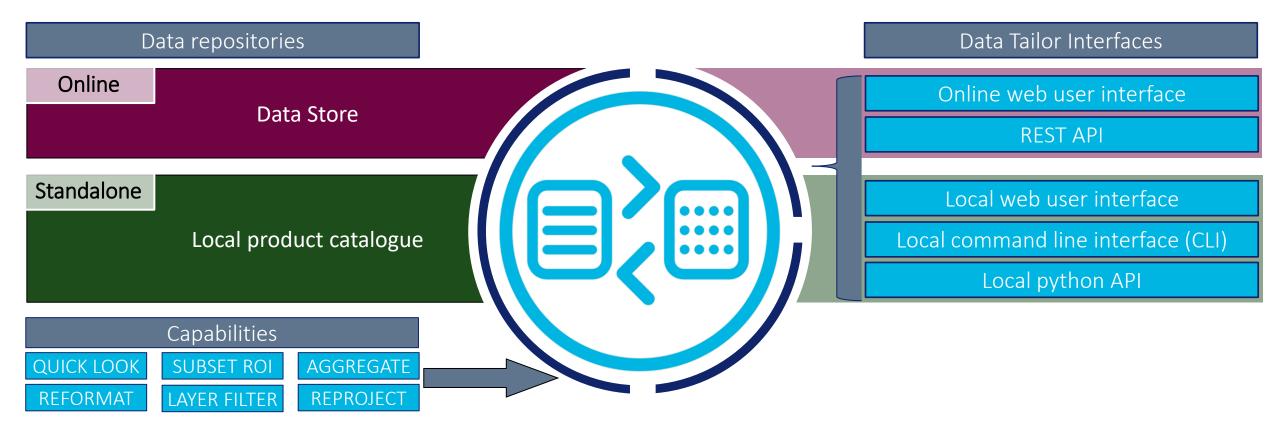


Data Tailor





The **EUMETSAT Data Tailor** allows users to subset and aggregate our data products in space and time, filter layers, generate quicklooks, re-project, and reformat into common GIS formats (netCDF, GeoTIFF, etc.). It offers a uniform way to transform both historical and near real-time satellite data provided by EUMETSAT.



Service available via Data Store and as standalone tool





EUMETView



EUMETSAT Data store



10)

Data Tailor

chain_config=chain_config,

target_dir='results'



EUMETCast Terrestrial



European Weather Cloud

Using the CLI and API (local)

- The standalone Data Tailor can also be run using a command line interface (CLI) or a Python application programming interface (API);
 - Allowing for use without GUI
 - Supports more complex processing chains (e.g. with PyTroll)

The Web REST API (remote)

Provides a REST web interface than can be invoked from other applications



Python and Jupyter notebook examples snippets available for each API







EUMETSAT Data store







EUMETSAT Data Access Client

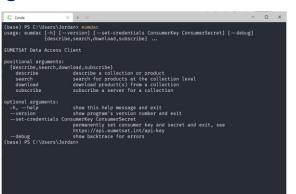
- Python library
 - Browsing, searching and downloading data through Data Store APIs
 - Tailoring and processing data through Data Tailor API
 - reduces the code to be written by over 60%

Command-line utilities

- Browsing, searching and downloading data through Data Store APIs
- New: Create and manage Data Tailor jobs
- New: Create and manage subscriptions

```
$ pip install eumdac
```

```
$ conda install -c eumetsat eumdac
```











- Wide variety of new EUMETSAT data services are now available for different needs of our users
- Feel free to try and start to use them.
- More resources on the internet
 - EUMETSAT Knowledge Base: https://eumetsatspace.atlassian.net/wiki/spaces/EUM/overview
 - EUMETSAT Youtube Channel: https://www.youtube.com/channel/UCiN59j5b1fAGnXVzIYFpaMw
- Helpdesk (ops@eumetsat.int) can be contacted for any question or inquiry.



Conclusion

www.eumetsat.ir

- CO2M Level 2 products will be made available from the EUMETSAT Data Store
- Data tailoring is principally possible and interfaces available for CO2M level-2 user products via the EUMETSAT data portal
- Specific tailoring needs for Co2M to be however defined with EUMETSAT dataservice (feasibility analysis)!
- CO2M team will start interacting with portal-team to create a set of demonstrators to be presented to MAG – MAG invited to comment/recommend
- Reminder: GHG level-2 standard product sample available on MAG server