

ESA Agency Report

WGISS#60 – 13-17 October 2025

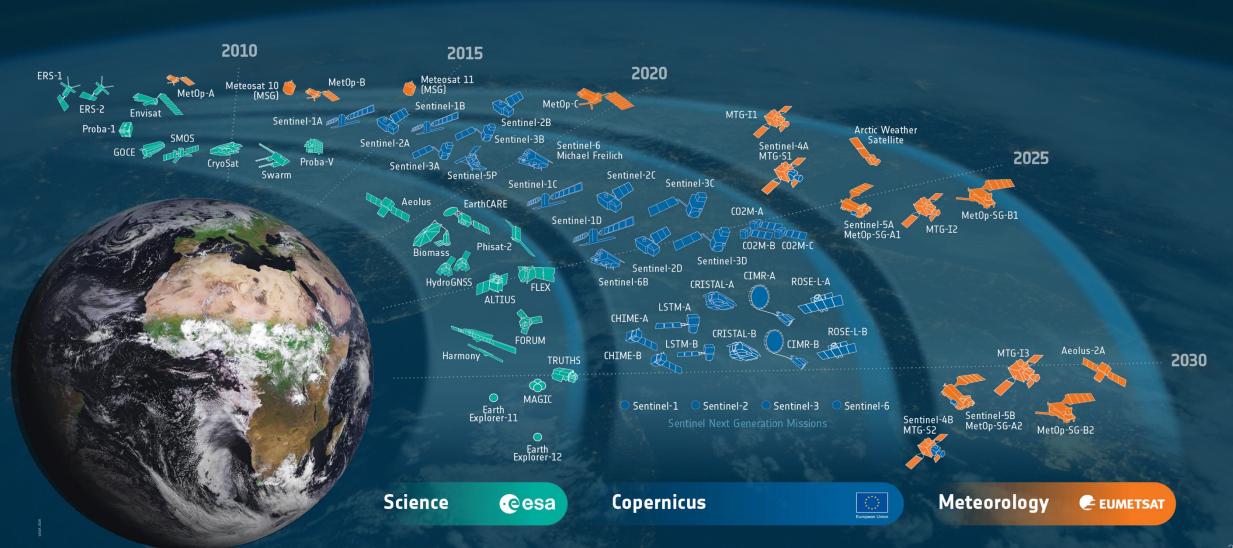
Mirko Albani (ESA)

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ESA Developed EO Missions





Successful Launches of MTG-S1/S4 & MetOp-SG A1/S5





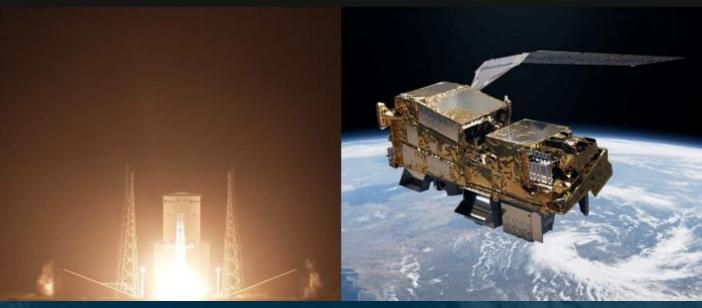


MTG-S1/Sentinel 4 (1st July)

Two meteorological missions – Meteosat Third Generation Sounder-1 (MTG-S1) and the Copernicus Sentinel-4 mission – were launched on board a SpaceX Falcon 9 from Cape Canaveral in Florida, US.

MetOp-SG A1/S5 (12th Aug.)

Europe's first MetOp Second Generation, MetOp-SG-A1, weather satellite – which hosts the Copernicus Sentinel-5 mission – was launched aboard an Ariane 6 rocket from the European spaceport in French Guiana.





EARTH EXPLORERS

Pioneering scientific and technical excellence



goce GRAVITY FIELD





SWarm MAGNETIC FIELD





CLOUD AND AEROSOL



mass







THERMAL RADIATION

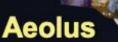
Science Missions in Operations



Science Missions in operations continue to deliver crucial data for science, many exceeding their original scopes



Improved SMOS sea ice thickness, winds and freeze thaw processors implemented. Five high level SMOS papers published Nature/Science/PNAS



reprocessing campaign, focusing on Baseline 16 FM-A data was completed

BIOMASS

First image acquired on 21 May and shown at LPS2025



Swarm

First Swarm and MSS-1 Joint Scientific Conference hosted 12-13 May in Macau, China



1 year in orbit. Lifetime estimate update shows now a (conservative) EarthCARE lifetime of 10+ years.



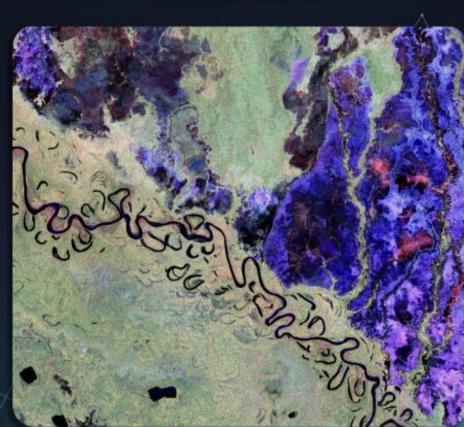
Φsat-2

IOCR completed, Al processed data available to public since 20 June



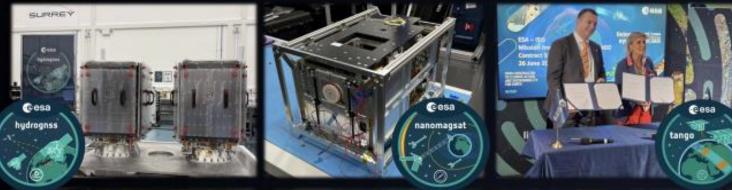


15th anniversary celebrated at LPS25. CMPR confirmed lifetime projection from Summer 2029 to spring 2032



Science Missions in Preparations





SCOUT-2/3/4: HydroGNSS / NanoMagSat / Tango

HydroGNSS: Satellites arrived at Vandenberg

NanoMagSat: Structural model activities completed in July + SRR

Tango: Contract signature at LPS / Impl. phase KO 15 Jul. + SRR



Scout 2nd Cycle

Contract signature ceremony for shortlisted missions, HiBiDiS, NAIAD, SIRIUS and SOVA-S at LPS25



FLEX FLORIS

Instrument successfully integrated

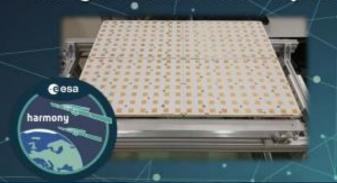


Forum

System CDR Board Completed with closeout actions pending by November 2025. Platform PFM AIT starting in ADS UK

HARMONY

Space Segment B2CDE1 Preliminar Design Review successfully closed

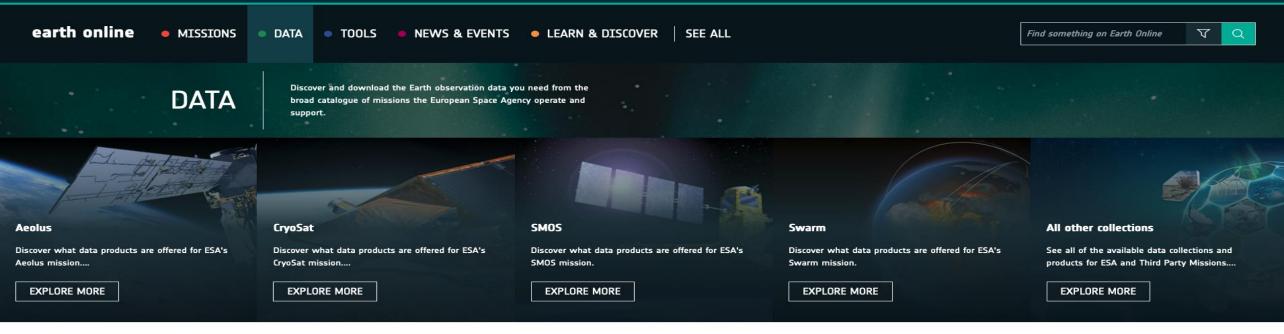




Science Missions Data Access

·eesa

→ THE EUROPEAN SPACE AGENCY



https://earth.esa.int/eogateway/catalog

DISCOVER LATEST DATA



LANDSAT 5 TM EUROPE AND NORTH AFRICA COVERAGE 1984-85

This collections contains Landsat 5 Thematic Mapper (TM) imagery acquired over Europe



LANDSAT 5 TM EUROPE AND NORTH AFRICA COVERAGE 1986-89

This collections contains Landsat 5 Thematic Mapper (TM) imagery acquired over Europe



LANDSAT 5 TM EUROPE AND NORTH AFRICA COVERAGE 1995-98

This collections contains Landsat 5 Thematic Mapper (TM) imagery acquired over Europe



Find More Data >>

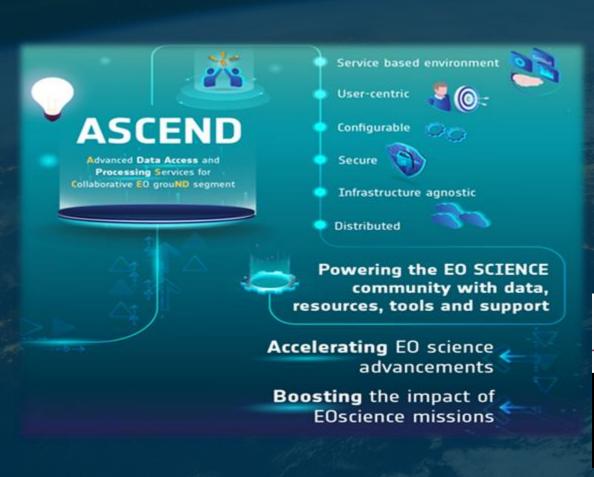
FUNDAMENTAL DATA RECORD FOR ATMOSPHERIC COMPOSITION [ATMOS__L1B]

The Screenshot Data Record (FDR) for Atmospheric Composition UVN v.1.0 dataset is

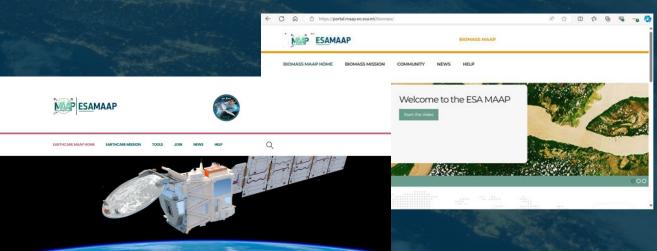


Science Missions Advanced Data Access





- Set-up, deployment and operations of a suite of services and tools suitable for a mission-generic collaborative environment.
- Set-up of dedicated MAAPs to serve, as a starting point, the Biomass, EarthCARE, and FLEX communities.



Biomass MAAP portal – https://portal.maap.eo.esa.int/biomass/ EarthCARE MAAP portal – https://portal.maap.eo.esa.int/earthcare/





Sentinels 1st Generation



Sentinel-1A: Has shown signs of aging with its propulsion system, situation remains stable since June 2024

Sentinel-1C: Nominal in operations

Sentinel-1D: Target launch date 4 November 2025 on Ariane 6.2

Sentinel-2A: Extended campaign ongoing since March 2025

Sentinel-2B/C: Nominal operations

Sentinel-2D: At ADS Friedrichshafen undergoing final functional tests before placed back in storage

Sentinel-3A/B: Nominal operations

Sentinel-3C: Launch period set to 1 Sept.-30 Nov. 2026. (FLEX mission is targeted as aux. payload)

Sentinel-4: PFM launched successfully on MTG-S1 on 1 July. Instrument in-orbit verification started

Sentinel-5: PFM launched successfully on MetOp-SG A1 on 13 Aug. Instrument in-orbit verification started

Sentinel-6B: Launch preparations proceeding according to plan. Target launch date: 17 November (UTC)

Sentinel-6C: Updated industrial proposal under evaluation, TEB planned 10th October.

Iberian Wildfires Seen from Space



Southern Europe is once again in the grip of extreme summer heat. Soaring temperatures and bonedry land have fuelled widespread wildfires, with the Iberian Peninsula among the regions hardest hit.



Sentinel-3 image captured 17 August, providing a wide view of France, Spain & Portugal, dominated by smoke billowing from fires in the N-part of the Iberian Peninsula.



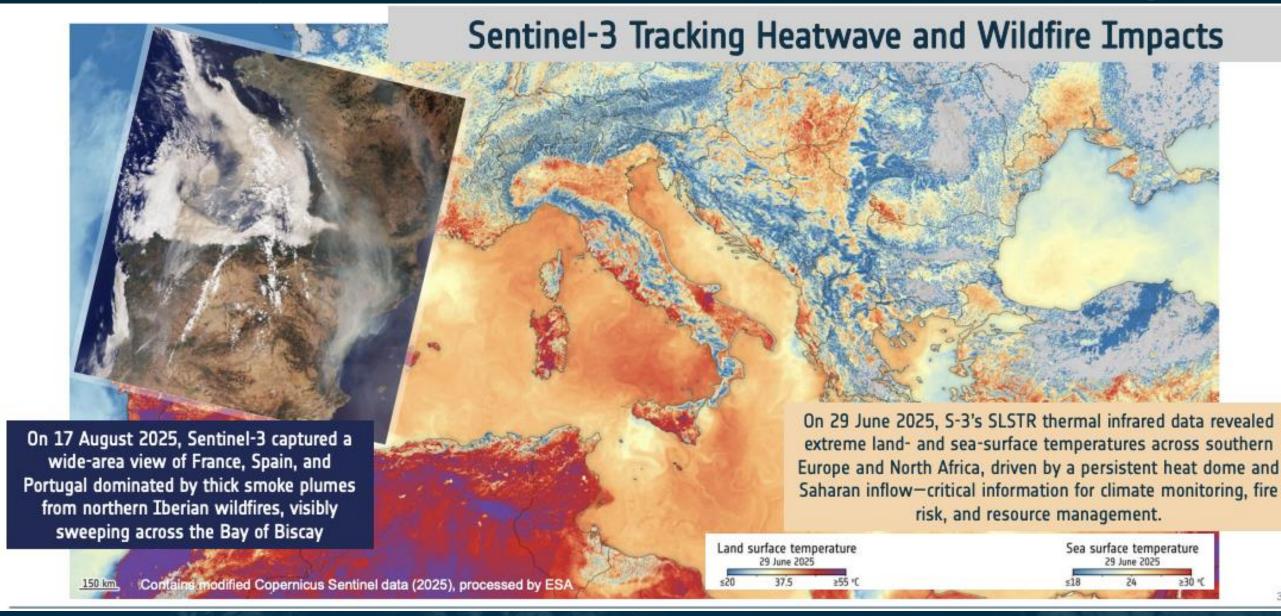
Carbon monoxide map, based on data from the European Commission's Atmosphere Monitoring Service, derived from satellite data.

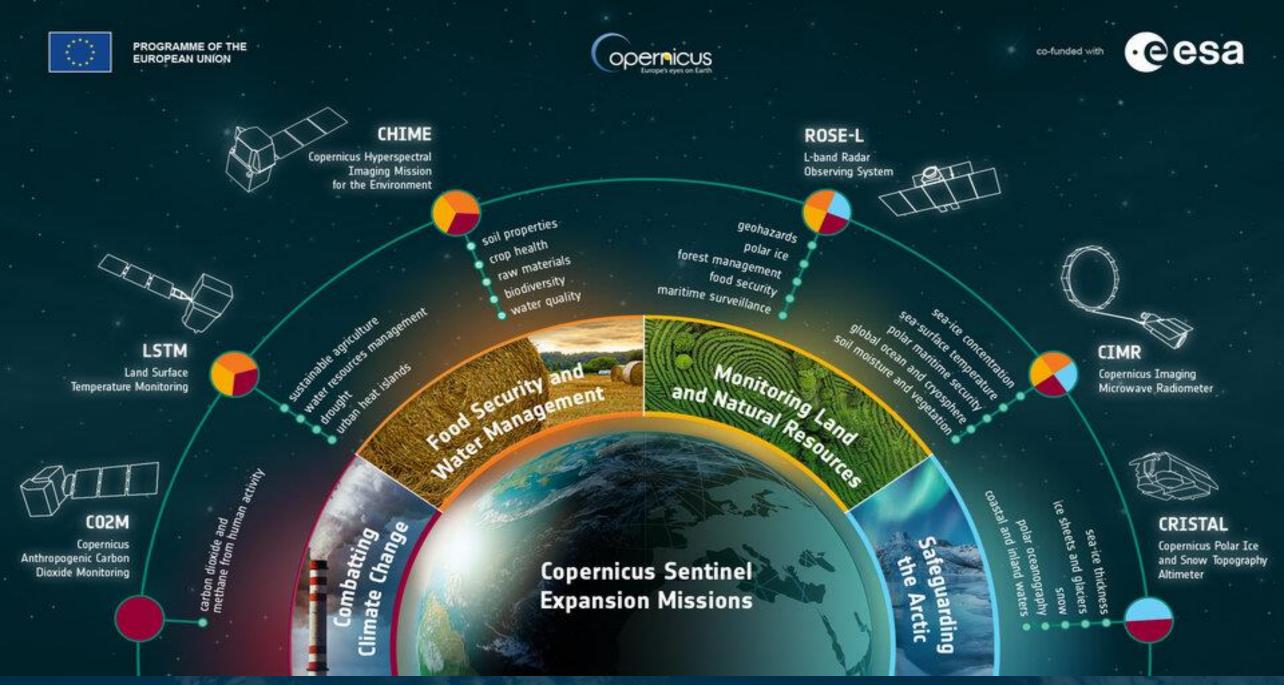


Sentinel-2 image captured 16 August False-colour view to highlight active fires in NO Portugal and NW Spain.

Sentinel-3 Mission Highlights







LPS25 - Most Successful Living Planet Symposium to Date



