

EUMETSAT updates since CGMS-53 and report on medium to long-term plans

CGMS-54 plenary, item 3



- **We deploy**
- **We deliver**
- **We plan for the future**

WE DEPLOY – CURRENT SATELLITES OPERATED BY EUMETSAT

Sentinel series

Low Earth orbit
Marine and atmospheric composition missions for Copernicus.

Sentinel-3A and -3B (98.7° incl.)
Sun-synchronous orbit.

Sentinel-6 Michael Freilich and its replacement, Sentinel-6B (66° incl.)
Non-synchronous orbit.

Jason-3 (66° incl.)

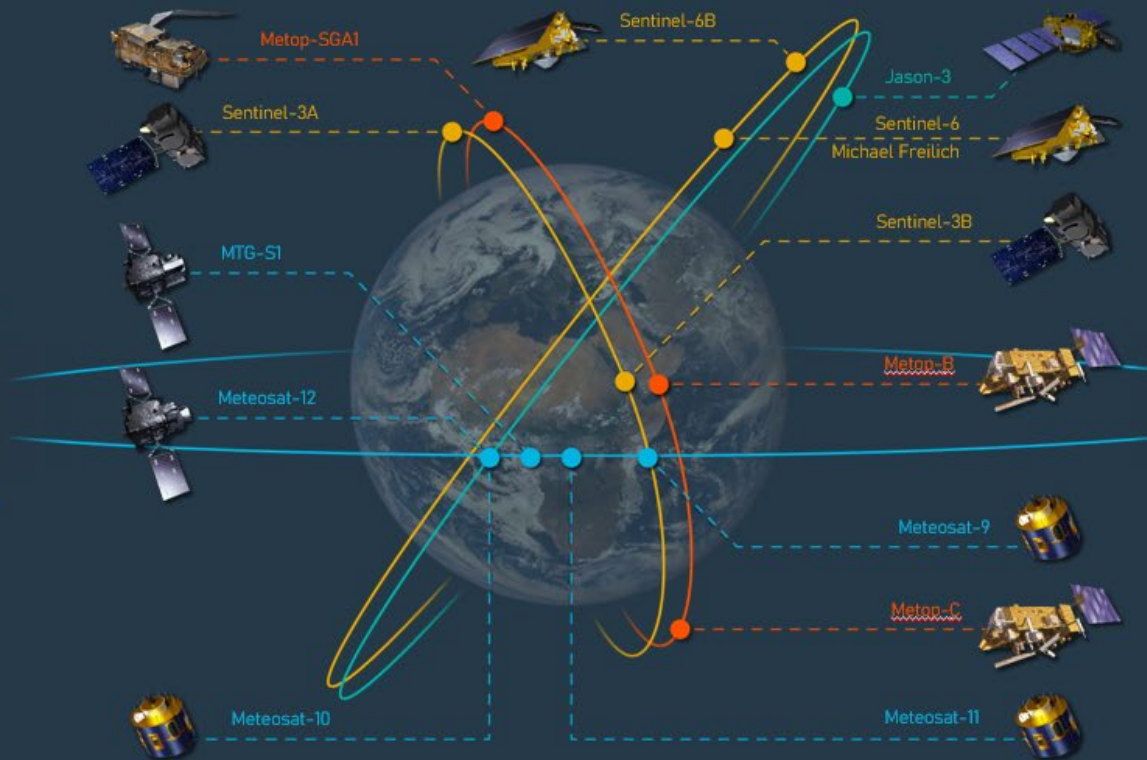
Low Earth, non-synchronous orbit
Global sea surface height observations.

Metop series

Low Earth, sun-synchronous orbit
Global observations for weather forecasting and climate monitoring.

Metop First Generation
Metop-B and -C (98.7° incl.)

Metop Second Generation
Metop-SGA1 (98.7° incl.)
Carries six instruments, including Sentinel-5.



Meteosat series

Geostationary orbit
Imagery for weather forecasting and climate monitoring.

Meteosat Second Generation
Meteosat-9 (45.8° E)
Imagery over Indian Ocean (every 15 min).

Meteosat-10 (0°)
Imagery over Europe (every 5 min).

Meteosat-11 (9.5° E)
Imagery over Europe and North Africa (every 5 min).

Meteosat Third Generation
Meteosat-12 (0°)
Full-disc imagery (every 10 min).

MTG-S1 (3.4° W)
Air quality monitoring instruments, including Sentinel-4.



→ 13 satellites in orbit – 16 by the end of 2026

Coordination Group for Meteorological Satellites - CGMS

WE DEPLOY – RECENT AND PLANNED LAUNCHES

2025



© SpaceX

MTG-S1 successfully launched on 1 July 2025



© CNES, ESA, Arianespace, Optique Vidéo CSG, S. Martin

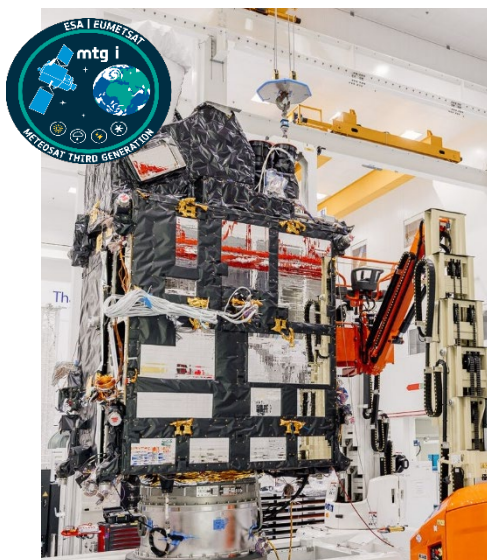
Metop-SGA1 successfully launched on 13 August 2025



© NASA TV

Copernicus Sentinel-6B successfully launched on 17 November 2025

2026



© Thales Alenia Space-Alban Pichon

MTG-I2 completes environmental tests



© ESA-P. Sebirot

Metop-SGB1 unfolds its solar wind

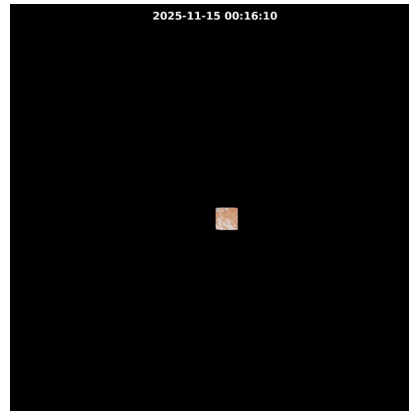


© Thales Alenia Space

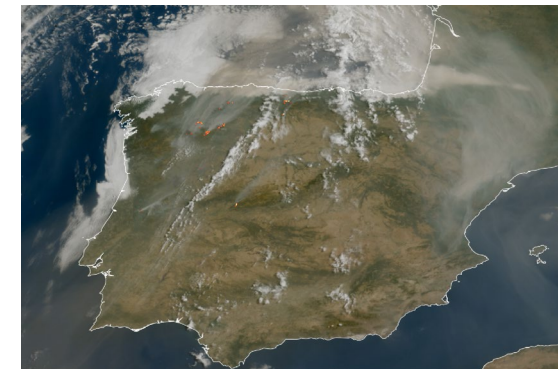
Copernicus Sentinel-3C in the cleanroom

WE DELIVER – IMPROVED OBSERVATIONS & NEW PRODUCTS FROM MTG & EPS-SG

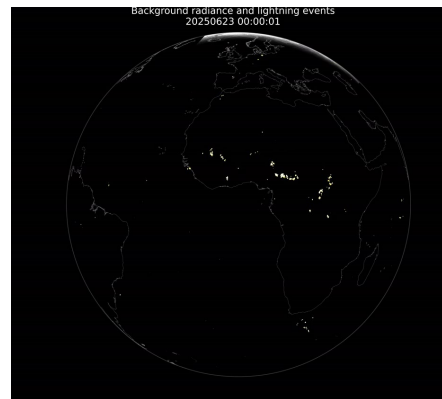
- MTG-S/IRS (Commissioning): improved spatial and temporal resolution of 3D atmosphere chemistry, pollution sources, cloud detection; highly beneficial for nowcasting, severe storm forecasting and 3D winds
- MTG-I/FCI+LI (Operational): observations of storms' full cycle and improved tracking of wildfire hotspots, smoke and dust transports, volcano plumes
- Metop-SGa/METImage (Commissioning): higher-resolution true-colour and IR observations
- Metop-SGa/3MI (Commissioning): enhanced imagery with polarisation of aerosol variables over ocean and land
- Metop-SGa/IASI-NG (Commissioning): increased sounding performance of atmosphere temperature, humidity and composition (ozone, methane, carbon dioxide, aerosols, etc.)
- More improvements with MTG-S/S-4 (Copernicus); MTG-I/GEOSAR; Metop-SGa/MWS; Metop-SGa/RO; Metop-Sga/S-5 (Copernicus)



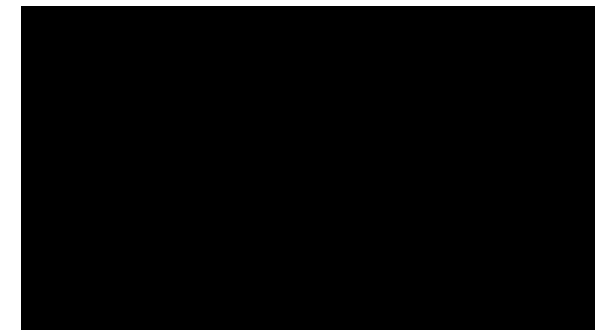
MTG-S/IRS first images, LWIR, 15/11/2025



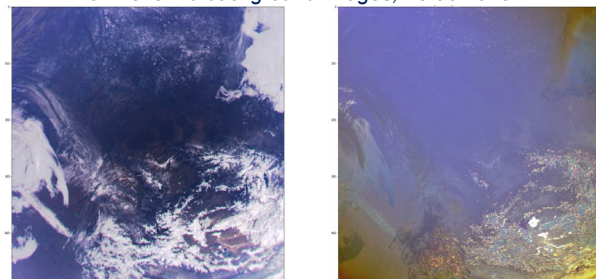
MTG-I/FCI+LI, Portuguese and Spanish fires, 17/08/2025



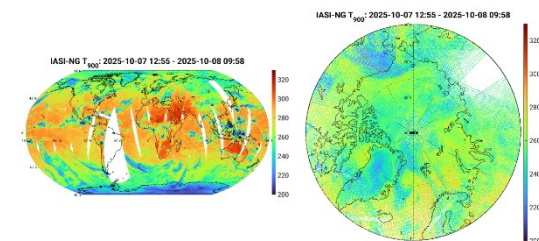
MTG-I/LI: 24 hours of LI Level 1b lightning events overlaid on Level 1b background images, 23/06/2025



Metop-SGa/METImage: near-global coverage, 25-27/09/25



Metop-SGa/3MI: Xinjiang → Tibet → India, 19/10/2025



Metop-SGa/IASI-NG: thermal properties of clouds and Earth's surface, 07/10/2025

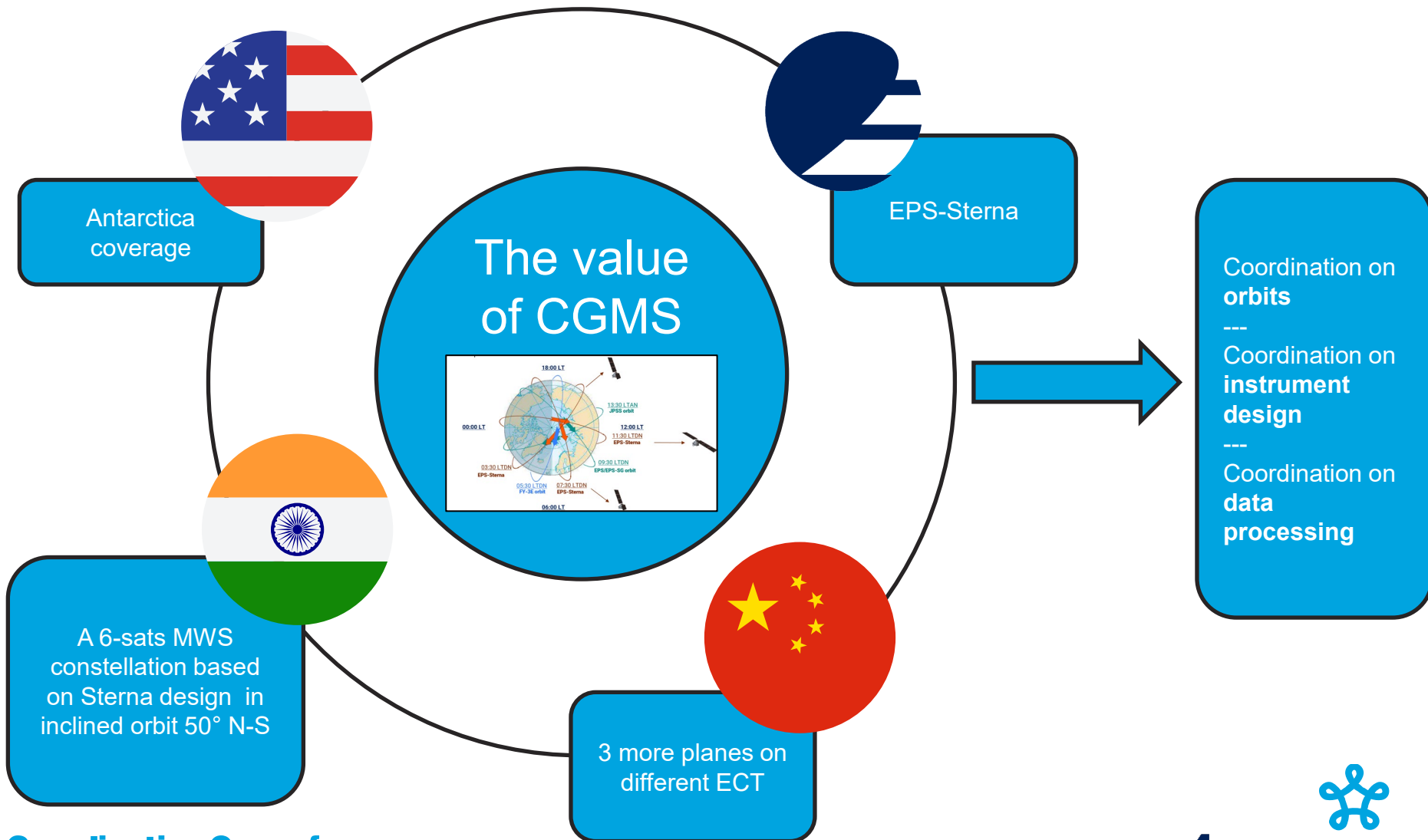
WE PLAN FOR THE FUTURE – COMPLEMENTING MTG AND EPS-SG IN 2026-2040

While deploying MTG and EPS-SG systems, EUMETSAT is preparing the future – with the objective to complement its portfolio of observations and enhanced its response to the implementation of **WIGOS 2040**.

- **EPS-Sterna**, a microwave sounding constellation – **Approved in January 2026**
- **EPS-Aeolus**, based on the heritage of ESA's Aeolus wind lidar mission – **Proposed in 2026**
- **EUMETSAT Altimetry programme**, continuation of Sentinel-3 and -6 – **Proposed in 2026**
- More **commercial data**, primary focus on RO and MWS – **Ongoing**
- More data from **international partnerships** – **Ongoing**
- **Foresight mechanism** - laying the groundwork for **Meteosat 4th (M4G)** and **EPS 3rd (EPS-TG)** generations – **Started in 2025**



WE PLAN FOR THE FUTURE – EPS-Sterna, leveraging benefits from CGMS



QUESTIONS?



Thank you for your attention