



Communication updates

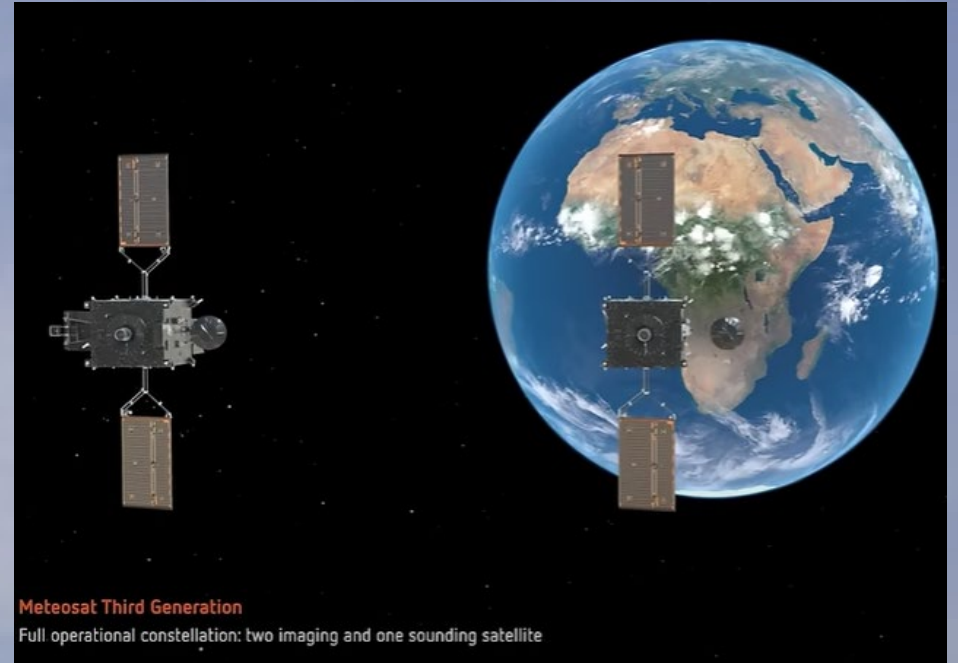
Neil Fletcher

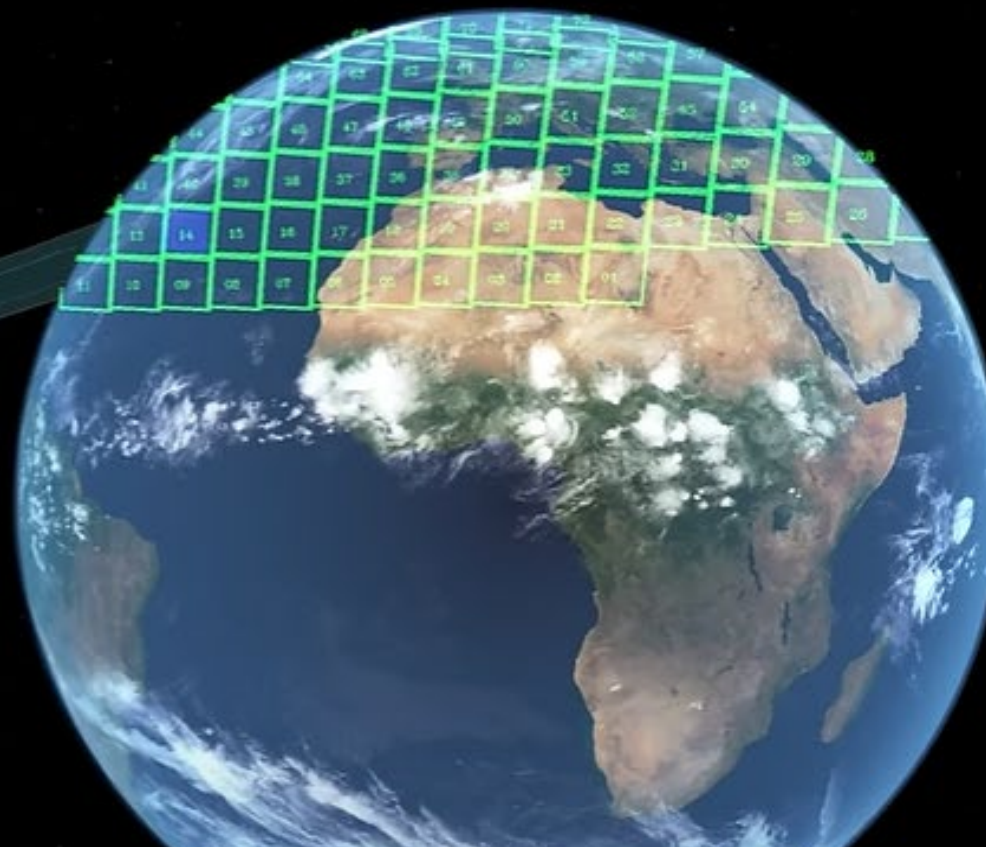
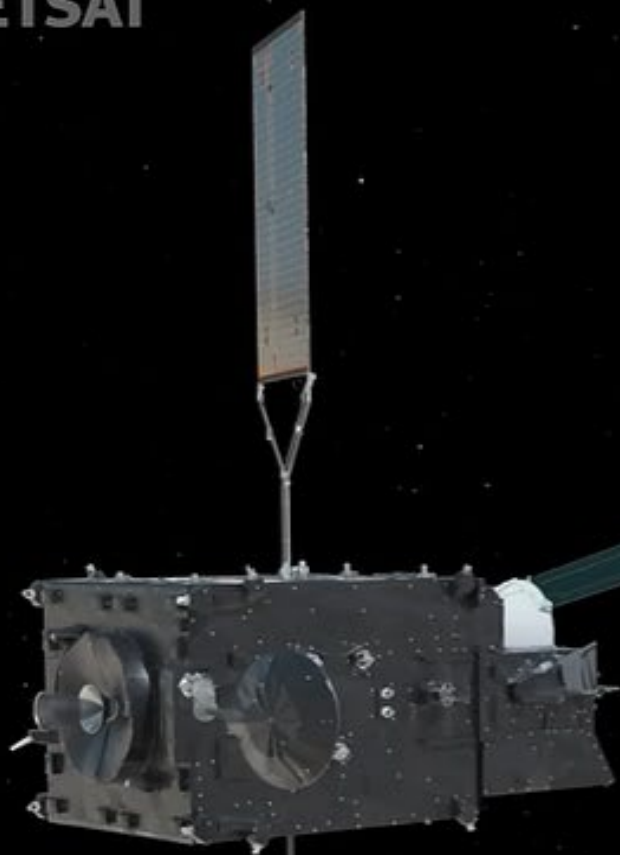
Digital media and outreach manager

9 September 2025



Successful launches – MTG-S and Metop-SGA1

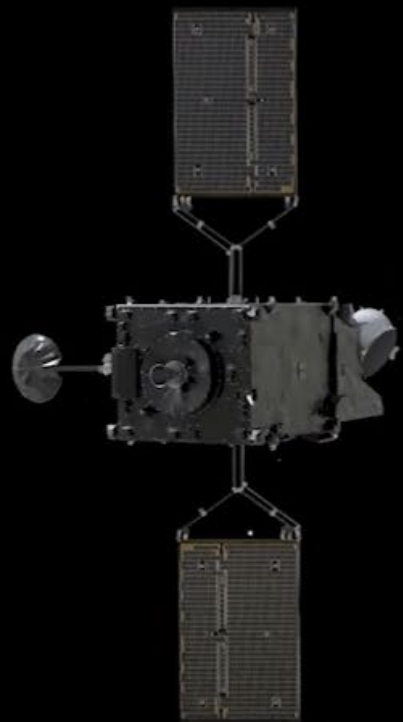




Infrared sounding mission

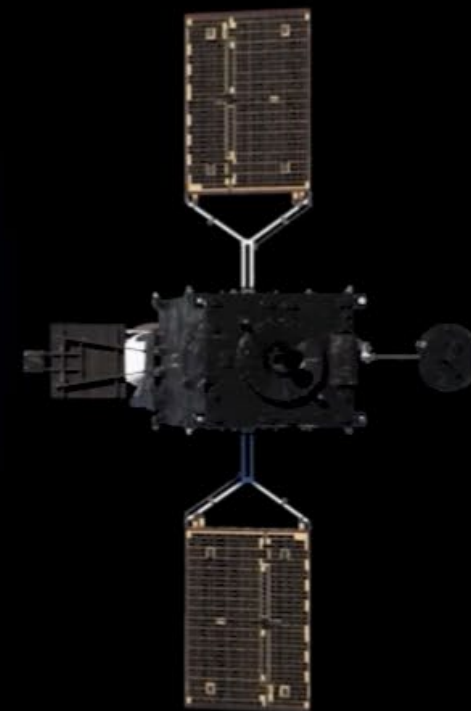
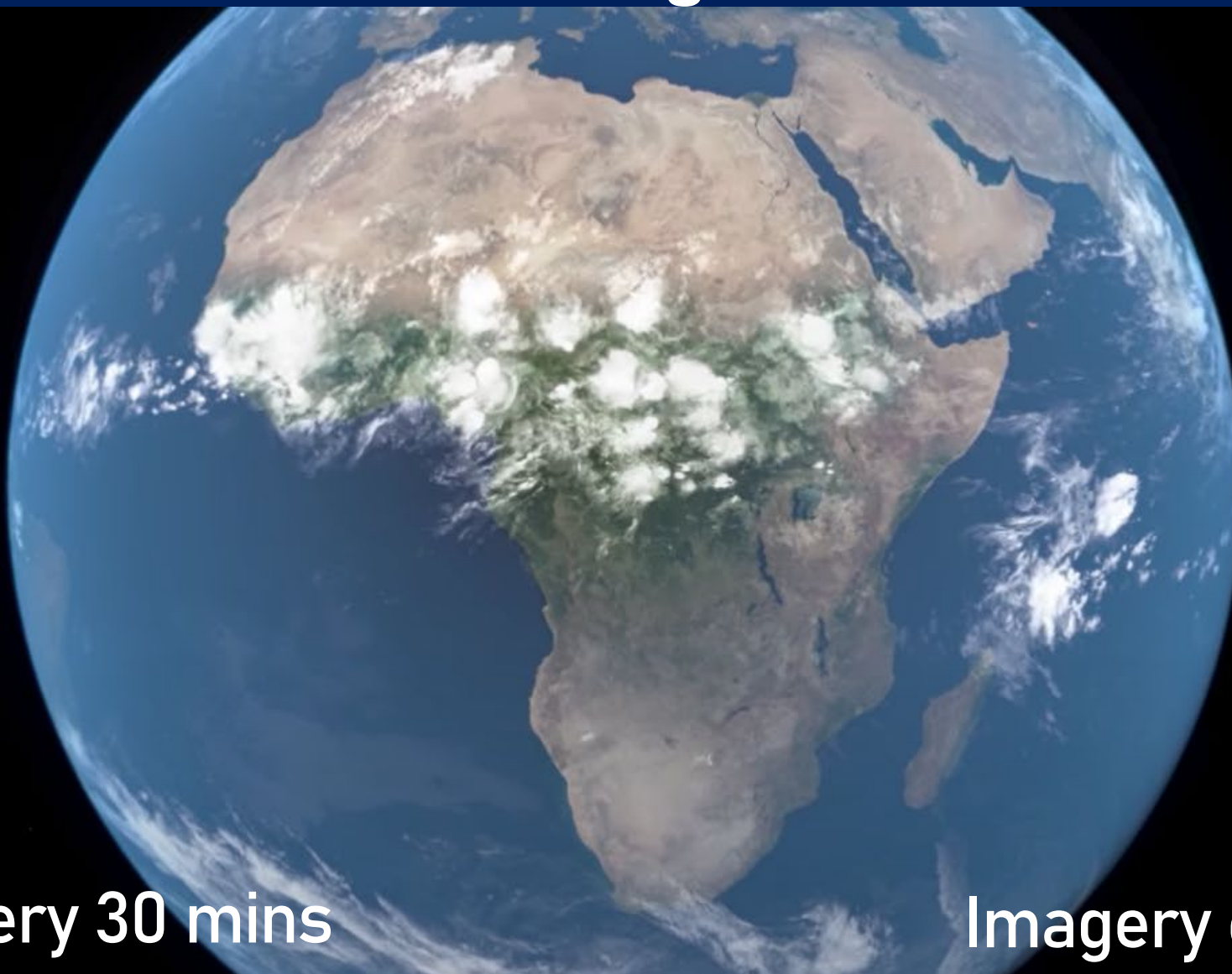
Hyperspectral soundings of the atmosphere
Provided by the InfraRed Sounder (IRS)
every 30 minutes over Europe

- IRS (3D profiles temp, humidity etc)
- Sentinel-4 air quality



Meteosat Third Generation - Sounder

Soundings every 30 mins



Meteosat Third Generation - Imager 1

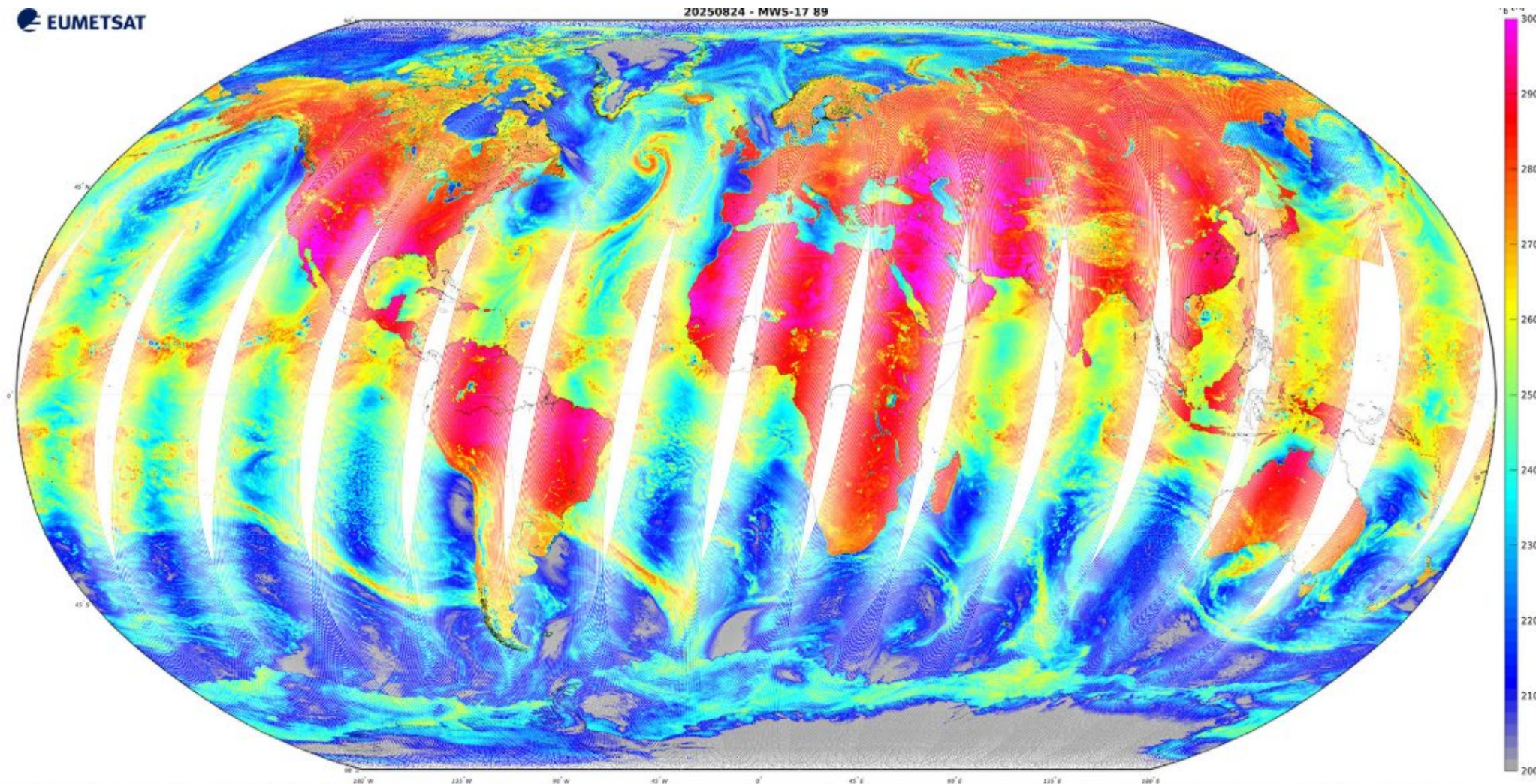
Imagery every 10 mins



Metop-SGA1 – 13 August



- Polar orbit - 835km
- Six main instruments



Striking 24-hour image from MWS's Channel 17 on 24 August. Besides Earth's surface properties, this channel is also sensitive to convective clouds, shown as various filaments and banding structures over the oceans. For instance, the red swirl visible in the North Atlantic reflects the deep convective cloud system of Ex-hurricane Erin.



Copernicus Sentinel-6B



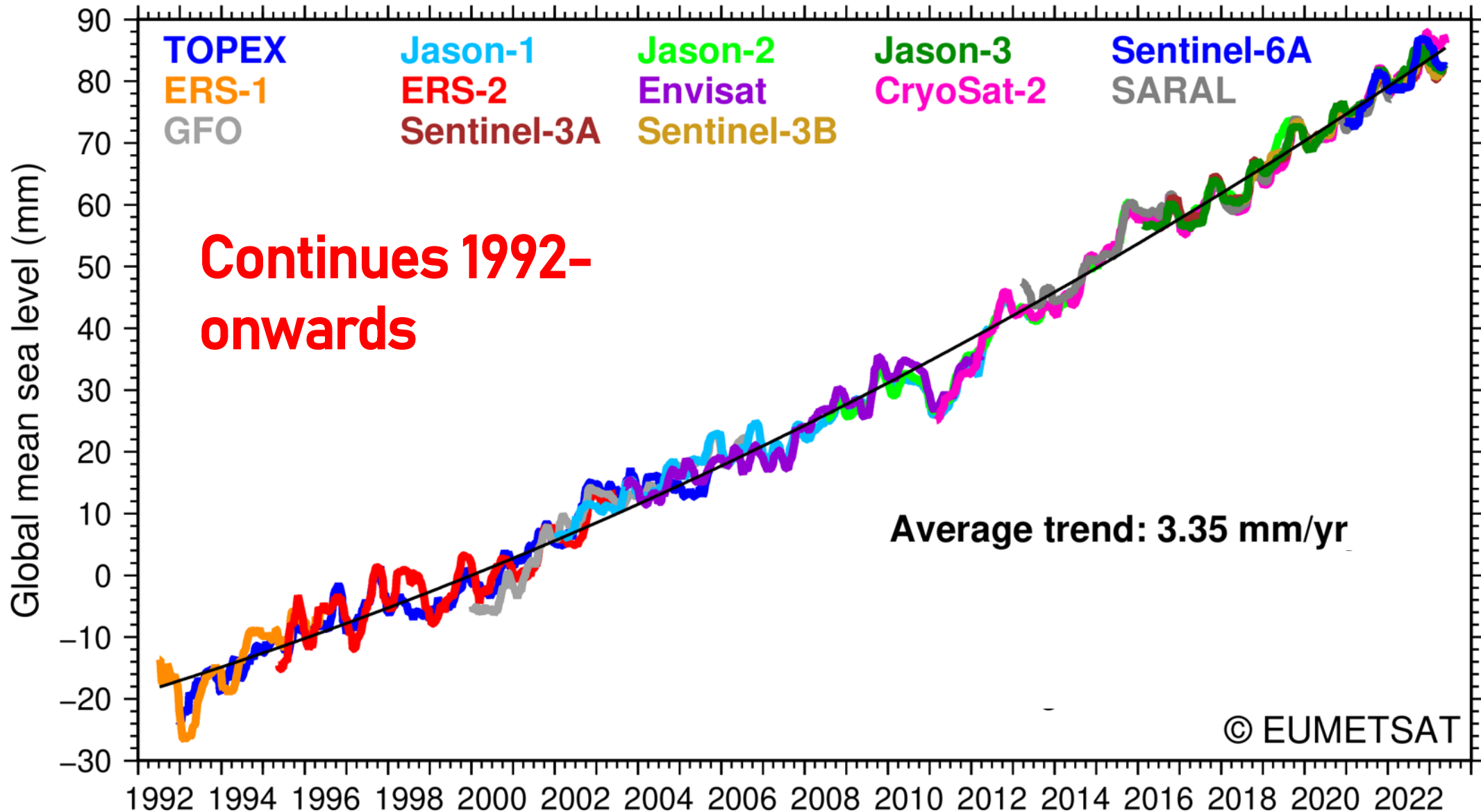
Launch – November 2025

Ocean monitoring – sea level, wave height,
wind over oceans



Copernicus Sentinel-6B – why it's important?

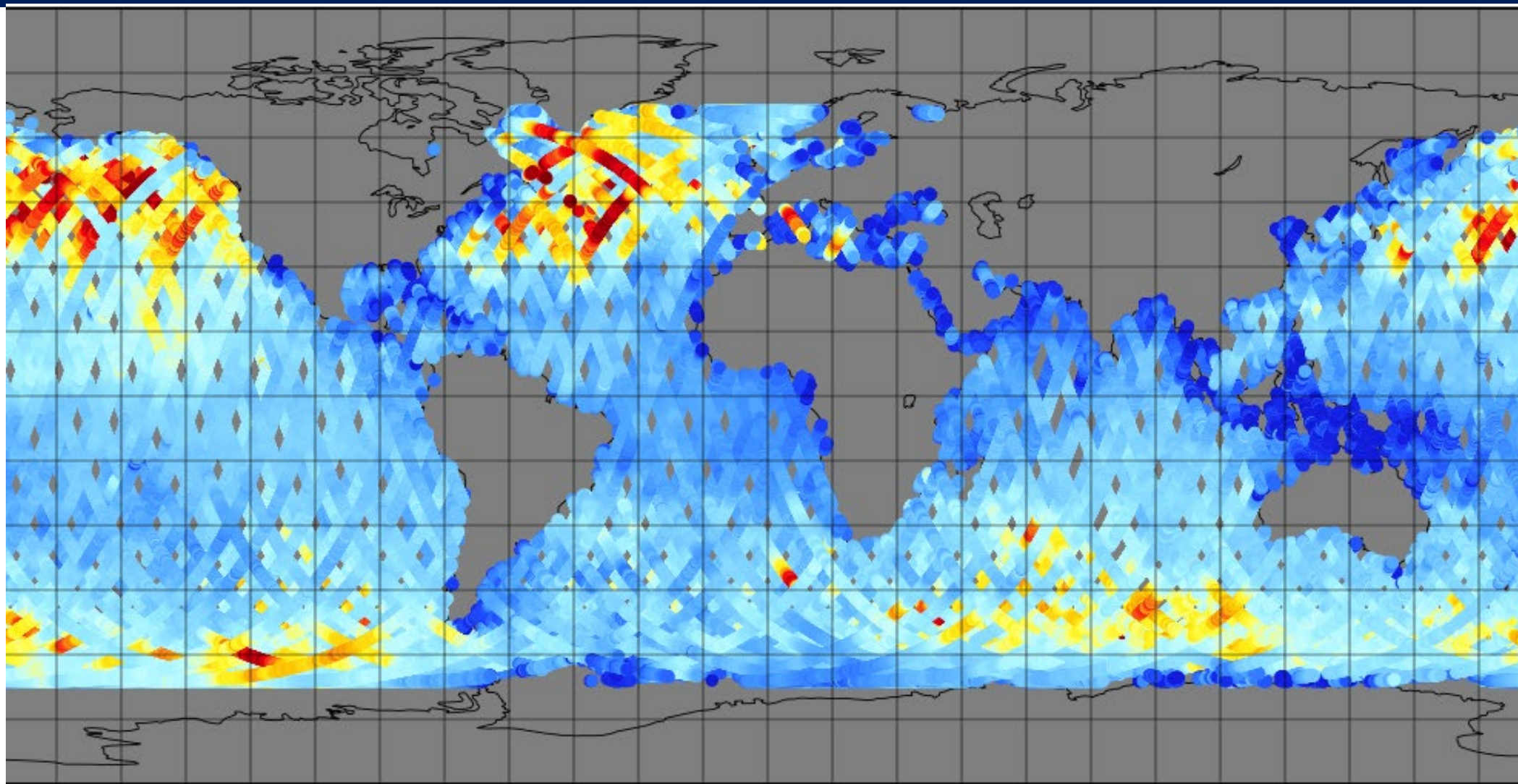
www.eumetsat.int



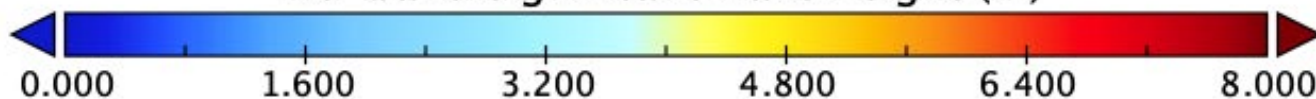


Copernicus Sentinel-6B – why it's important?

umetsat.int



Ku-band significant wave height (m)

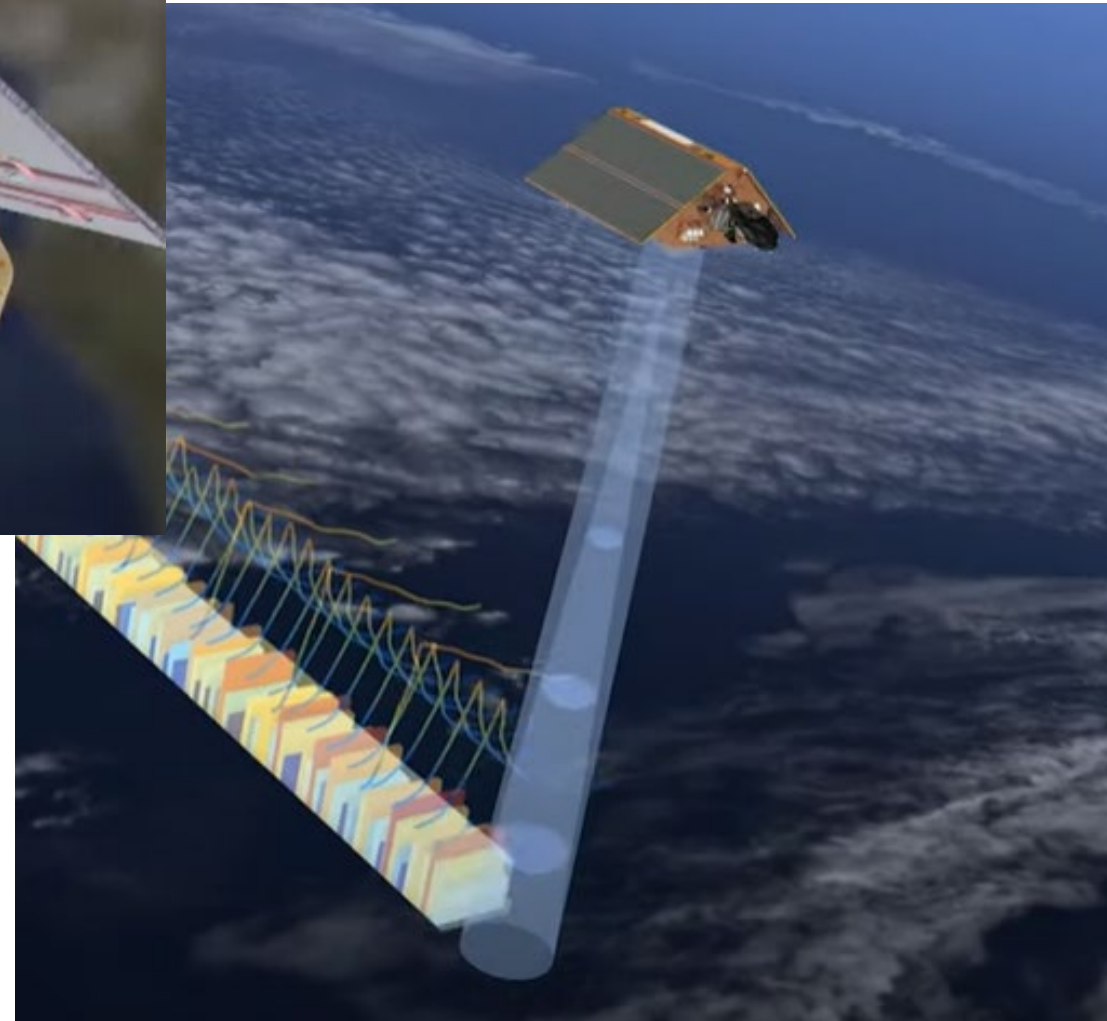
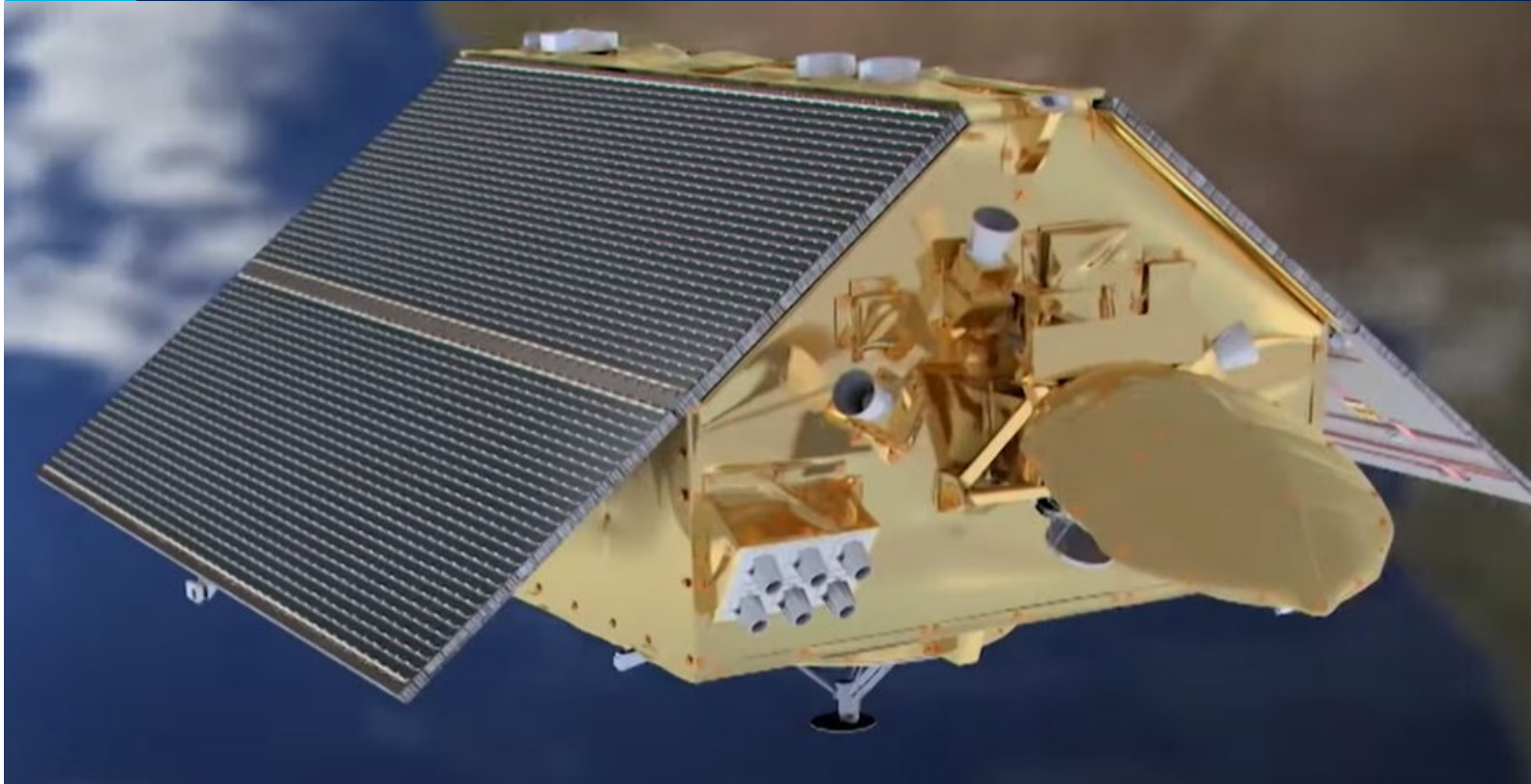


Data Min = 0.000, Max = 8.000



Copernicus Sentinel-6B

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EUMETSAT operates the satellite and delivers data to users.

Follow the launch of Europe's next generation of weather and environmental monitoring satellites on our satellite launch hub.

EUMETSAT is in the process of upgrading its geostationary Meteosat and polar-orbiting Metop weather satellite series. Over the coming years, many new Meteosat Third Generation imaging and sounding satellites and Metop Second Generation satellites will be launched and bring in a new era in weather and climate monitoring in Europe, and beyond.

Over the same period there will also be launches of additional Copernicus satellites including ocean-monitoring Sentinel-3 and -6 satellites and new Sentinel-4 and -5 atmospheric monitoring missions, which are onboard the MTG and Metop-5G satellites respectively.

On this page you can follow the upcoming launches and find out more about how these exciting new satellites will change our ability to monitor and better understand our planet.

Check out the next satellites to launch



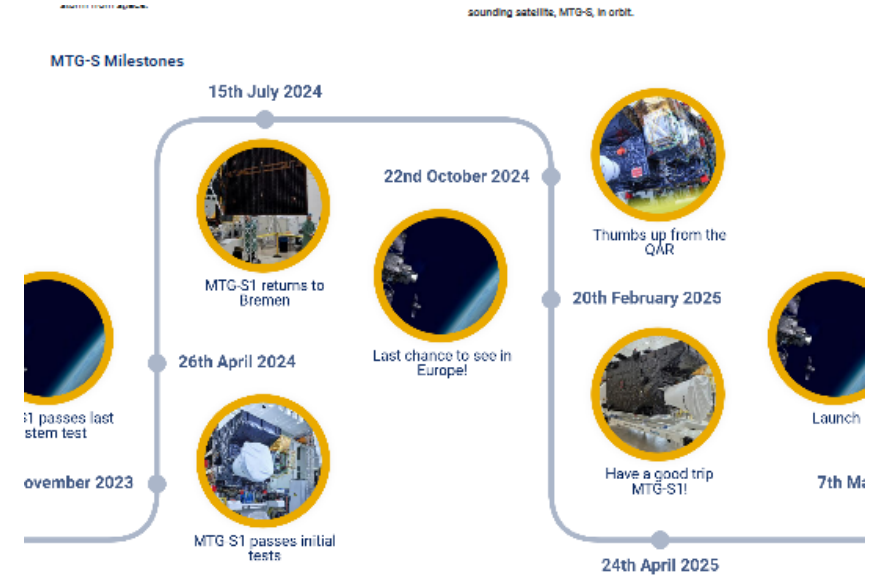
Meteosat Third Generation Sounder 1 and Copernicus Sentinel-4

Europe's first operational sounding satellite in geostationary orbit.



Metop Second Generation A1 and Copernicus Sentinel-5

The Metop Second Generation satellite will be the first of the next generation of European polar-orbiting weather satellites.



One satellite: two complementary missions

MTG-S1 will carry two missions: the Infra-Red Sounder (IRS) and the Copernicus Sentinel-4 Ultraviolet-Visible-Near-Infrared light Imaging spectrometer (UVN).

In combination with data from Meteosat-12, MTG-S1 will enable weather and climate scientists to get a 4D vision of the dynamics and composition of the atmosphere.

What will the IRS monitor?

The Infrared Sounder (IRS) will offer a dynamic view of the atmosphere over the Earth. Scanning Europe every 30 minutes, it will collect vertical temperature and humidity profiles with unprecedented accuracy.

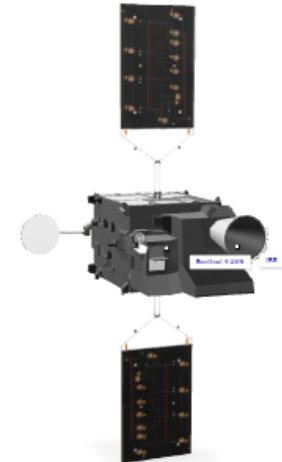
This data will enhance the forecasting of atmospheric instability, water vapour movement, and extreme weather events like heavy rainfall, tropical cyclones, and winter storms.

What will Copernicus Sentinel-4 monitor?

The Copernicus Sentinel-4 mission will track aerosols (fine particles in the atmosphere) as well as concentrations of nitrogen dioxide, sulphur dioxide, and ozone. These measurements, taken every 60 minutes, will be used to monitor and forecast air quality over Europe, to protect human health, and also to improve our understanding of the daily fluctuations and global distribution of atmospheric pollutants.

Sentinel-4 will also play a key role in monitoring air quality and emissions from

Interactive 3D MTG-S model



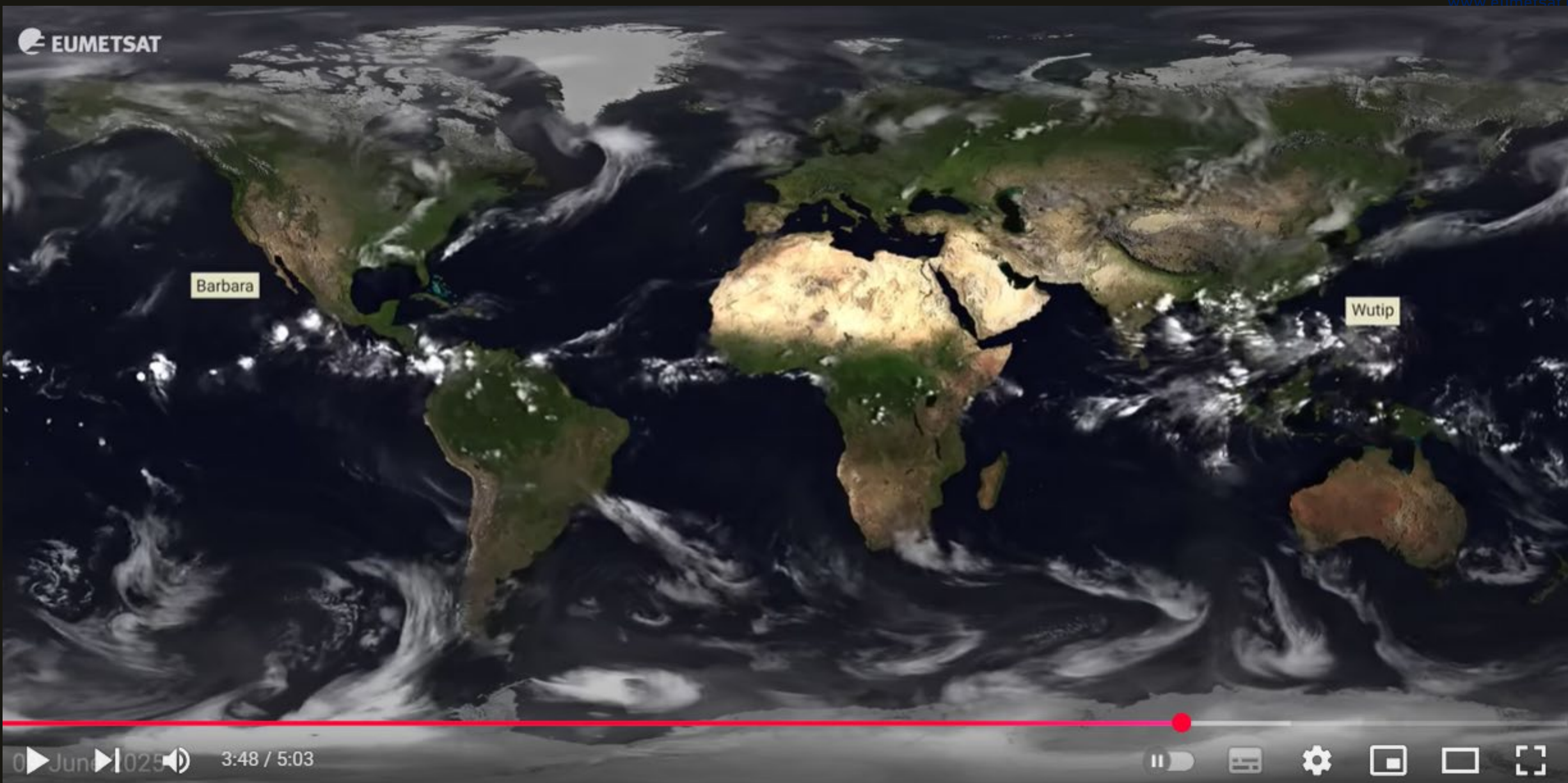


- More streams coming Europe and Africa



Global weather – every quarter

www.eumetsat.int



Year of sea surface temperature

 EUMETSAT

Global Sea Surface
Temperature

 Copernicus
European Space Agency

 Copernicus
Marine Service

eumetsat.int



- Operate S-3
- Provide SST data (S3, Metop, MTG) to Copernicus

1 JANUARY 2024 0:08 / 2:26



Sea Surface Temperature (°C)
-1.8 34





Year of sea surface temperature

EUMETSAT

Copernicus
Europe's eyes on Earth

Copernicus
Marine Service

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Global Sea Surface
Temperature - 2024

NORTH
AMERICA

Atlantic
Ocean

Gulf Stream

Bringing warm water
to Northern Europe

13 JUNE

1:05 / 2:26

Sea Surface Temperature (°C)



Chlorophyll-a concentration [mg/m³]



Year of ocean colour

EUMETSAT

Global Ocean
Colour - 2024

Copernicus
European Space Agency

Copernicus
Marine Service

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Northern Europe
Spring phytoplankton blooms

EUROPE

Chlorophyll-a concentration (mg/m3)

22 MARCH 2024 / 2:23

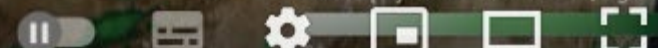




Image of the week

84 results



imetsat.int

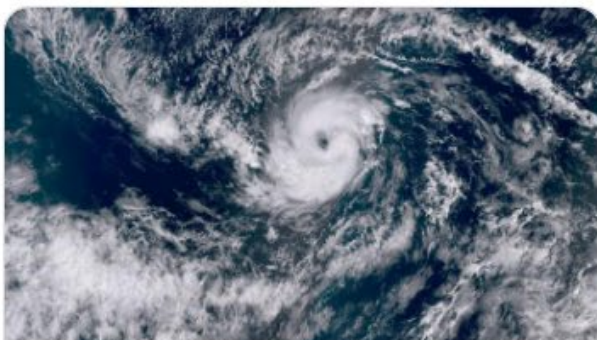


Image of the week
3 September 2025

Image of the week: Hurricane Kiko

This week's image is of Hurricane Kiko.



Image of the week
26 August 2025

Image of the week: Marine algal bloom off the UK coast

This week's image shows a phytoplankton bloom off the southwest coast of the UK.



Image of the week
18 August 2025

Image of the week: Hurricane Erin

This week's image of the week is of Hurricane Erin.





Image of the week

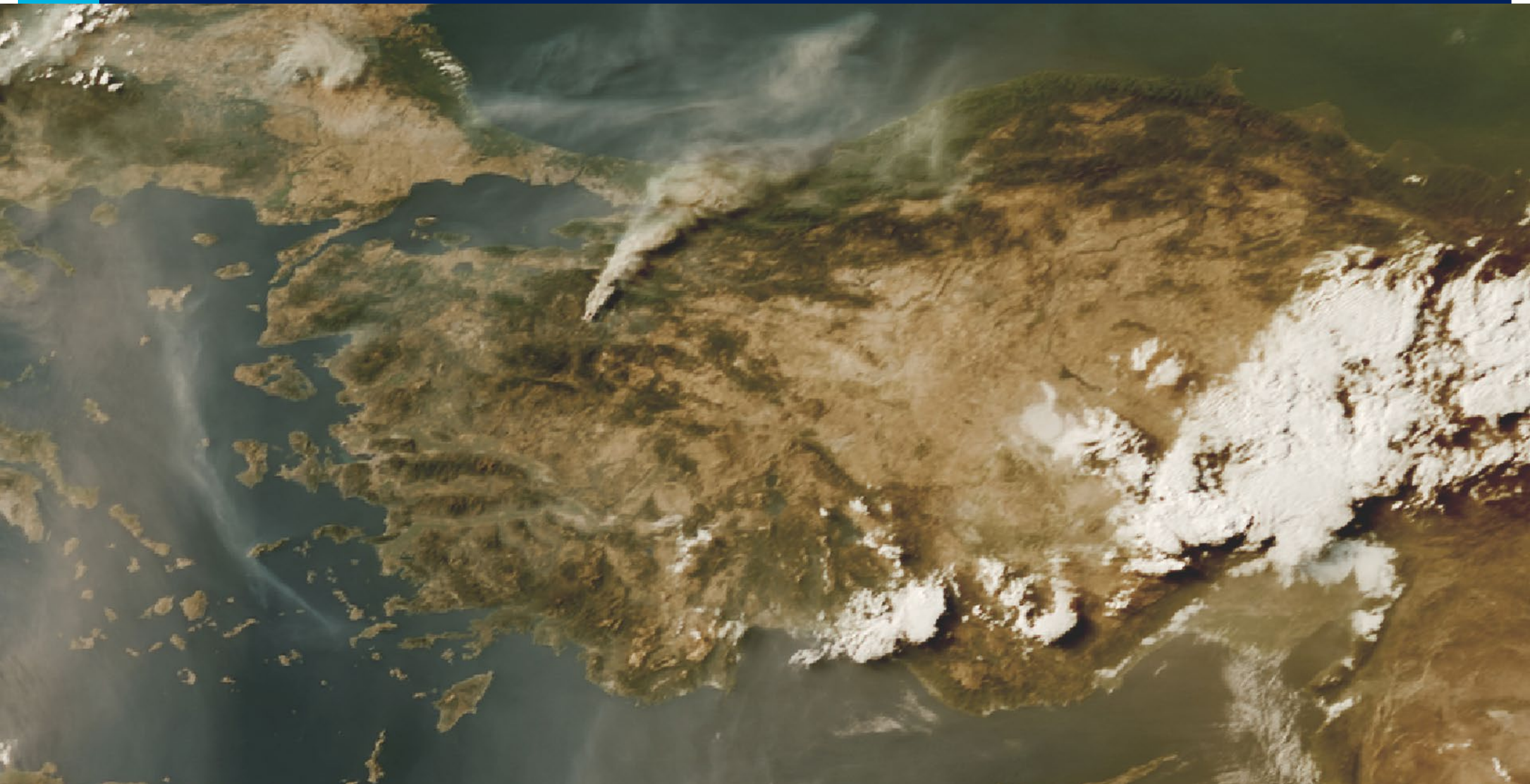




Image of the week – coccolithophore bloom





Ocean data webinar series



MAKING SENSE OF THE OCEAN: FROM **OBSERVATION** TO **ACTIONABLE KNOWLEDGE**



25 SEPTEMBER 2025



PROGRAMME OF THE
EUROPEAN UNION



EUMETSAT



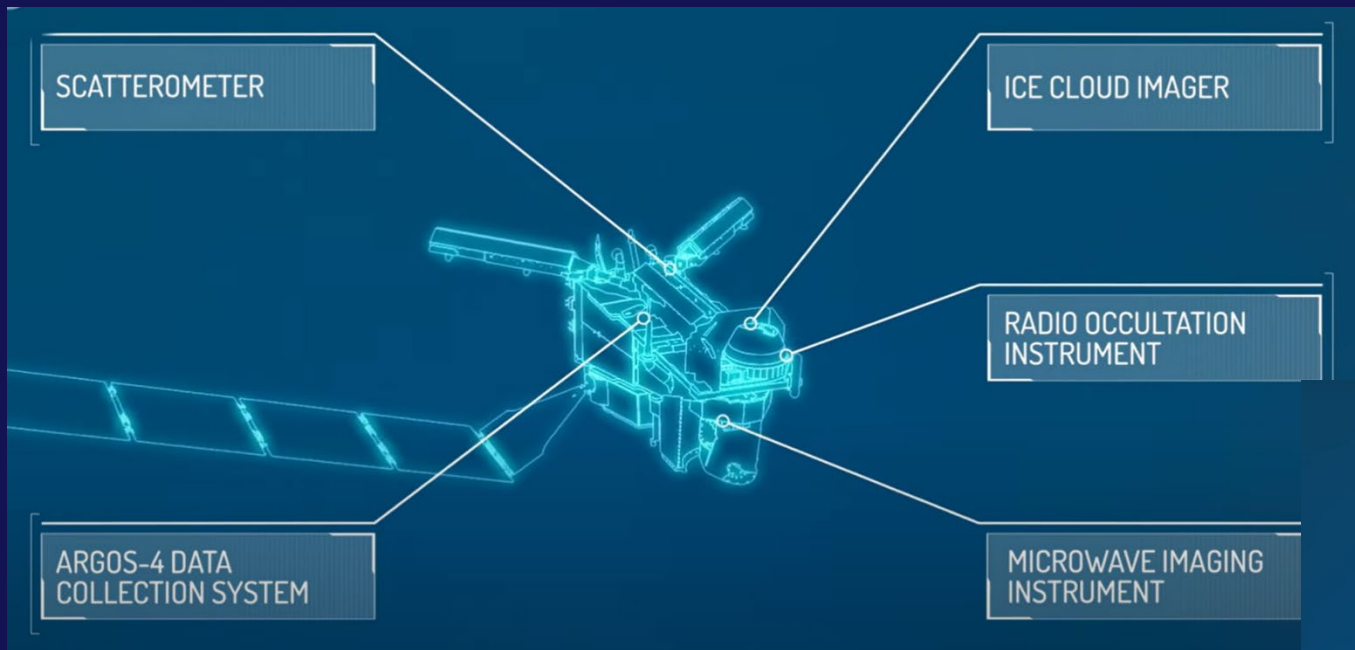
In collaboration with
the UN OD Data
Coordination Office



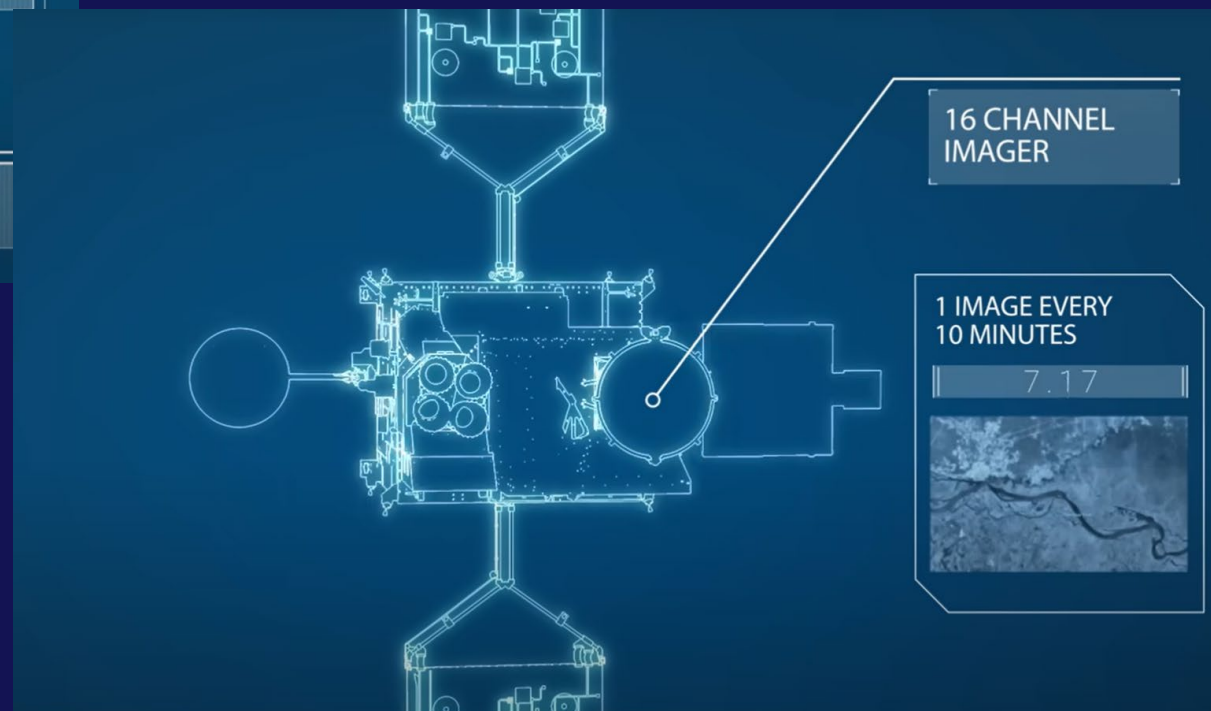


Next year - summer 2026

www.esa.int



Metop-SGB1



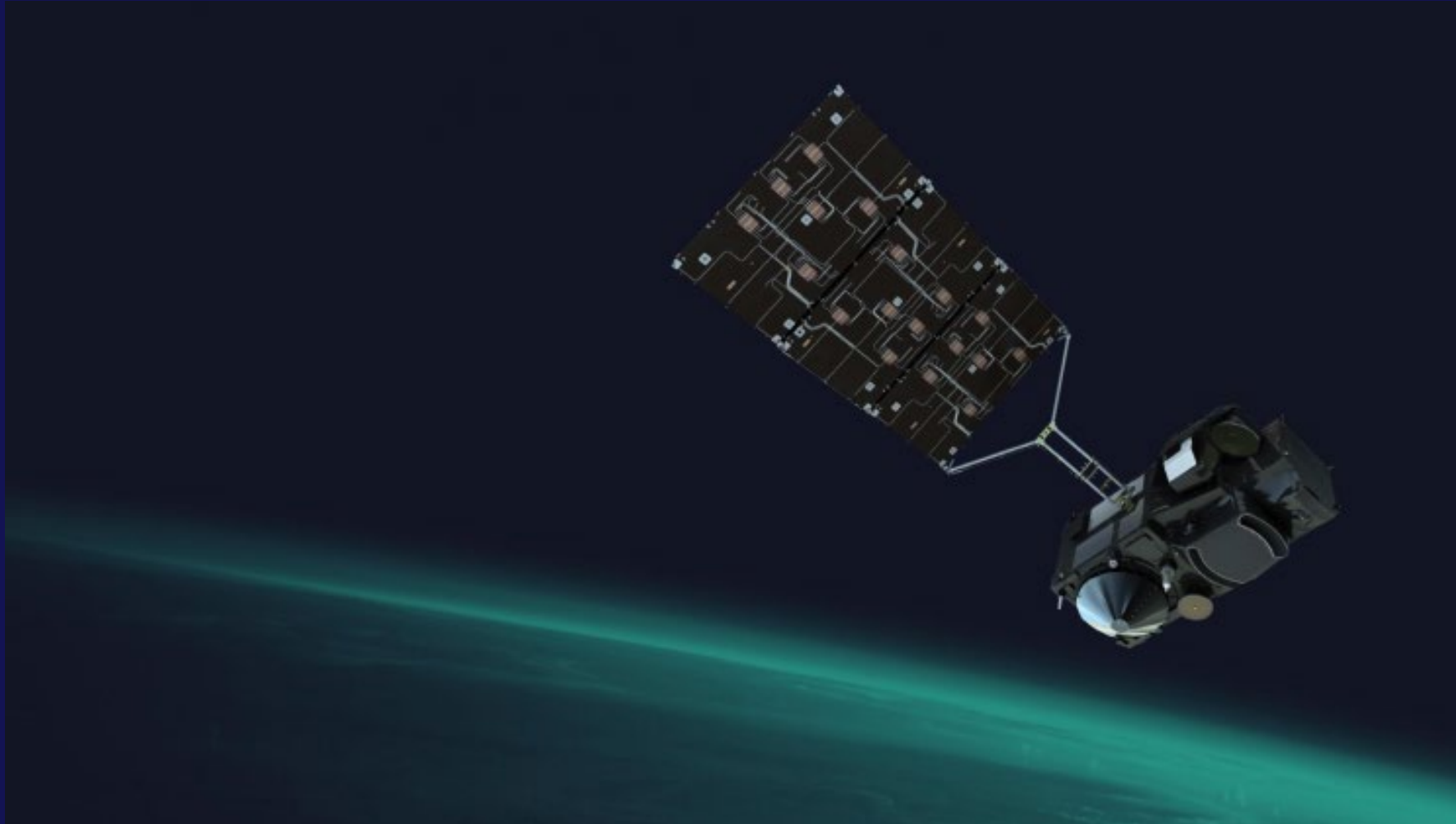
MTG-I2 - rapid scan 2.5 mins



Coming in autumn 2026

www.copernicus.eu

Copernicus Sentinel-3C



Will join
Sentinel-3A
and –B

Ocean
colour, sea
surface
temperature
and sea level



And finally....

**A big thanks for all your support
with the launches!**

Any questions?