EUMETSAT

Metop-SG.

Nicholas Coyne
Additional Data Services Team

CSPP Meeting May 2026

Agenda

Metop-SG Services

- **Global**
  - The data from the satellite is dumped at Svalbard and McMurdo. The is the data captured from 1 full orbit. The latency is improved by acquiring it in 2 half orbit parts. This data is processed in EUMETSAT HQ.
- **Regional**
  - This is the data acquired from the 5 EUMETSAT Core regional stations and the EPS-SG Direct Acquisition station in the Azores. This data is processed in EUMETSAT HQ.
- **Local Processing Software**
  - This data is from Direct Acquisition stations that are not part of the stations listed above for the Regional Mission. The processing of this data is not performed by the central processing facility in EUMETSAT. It is processed separately using the software provided by the NWP-SAF.

What changes?

- The regional data service is acquired from the 5 EUMETSAT Core regional stations and the EPS-SG Direct Acquisition station in the Azores.
- This data is processed in EUMETSAT HQ on in the same facility as the global data.
- The 6 stations allow the area of interest to be covered with some redundant overlap.
- The data is transmitted from the station straight to the EPS-SG data processing facility.
- Unlike EARS (EUMETSAT Advanced Retransmission) the data are not processed on the station PPN (Product processing node).
- Operational expectation Q4 2026 or Q1 2027.coyne

Regional Data Service of Metop-SG A1

- The regional data service is acquired from the 5 EUMETSAT Core regional stations and the EPS-SG Direct Acquisition station in the Azores.
- This data is processed in EUMETSAT HQ on in the same facility as the global data.
- The 6 stations allow the area of interest to be covered with some redundant overlap.
- The data is transmitted from the station straight to the EPS-SG data processing facility.
- Unlike EARS (EUMETSAT Advanced Retransmission) the data are not processed on the station PPN (Product processing node).
- Operational expectation Q4 2026 or Q1 2027.coyne

Satellite

Svalbard

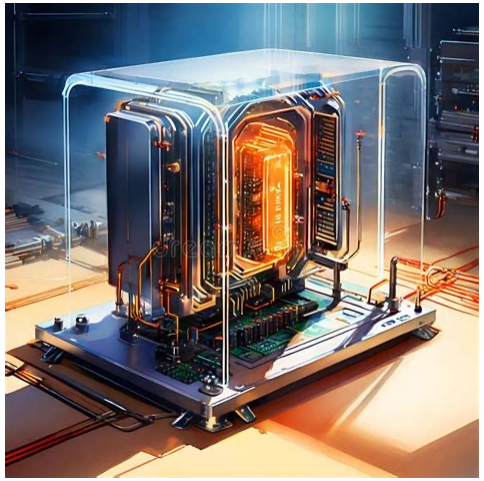
Kangaga

Lannion

Athens

Maspolomas

Azores



Processing

Dissemination

Local Processin Software Metop-SG

- The purpose of the local processing software is to allow other stations, those outside of EUMETSATS dedicated regional staions to be able to process Metop-SG data.
- These are the stations currently providing low latency data to the NWP centres from the different meteorological LEO satellites operated by EUMETSAT, NOAA and CMA under the coordintation of WMO DBNet.
- These direct acquisition stations acquire and process it locally.
- The data is not sent to EUMETSAT for processing.
- This data is usually provided to the NWP centres via WMO WIS.
- The local processing software will be provided to all users as a package by the NWP-SAF.
- This software is expected to be available in Q1 2025.

Local

Satellite

Stations

DBNet

Operations

- When the regional data for Metop-SG becomes operational the current EUMETSAT team that looks after EARS will take over the day to day operations.
- NWP-SAF will remain responsible for the “Local Mission” processing package.
- EUMETSAT’s core station priority will be adjusted to take into account the inclusion of Metop-SG A1.

Orbit	Satellite	Satellite Acquisition Priorities
Mid-morning	Metop-C	4
	Metop-B	6
	FY3F*	8
	SGA1	1
	AWS-PFM	11
Afternoon	NOAA-20 (JPSS-1)	2
	NOAA-21 (JPSS-2)	5
	FY-3D	7
	SNPP	9
	FY3H*	10
Early Morning	FY-3E	3

**Where Left Hand Circular Polarisation (LCHP) is available*

Information

Info on Metop-SG

Using Metop-SG regional data service data | EUMETSAT - User Portal

Metop-SG Direct Readout guide | EUMETSAT - User Portal

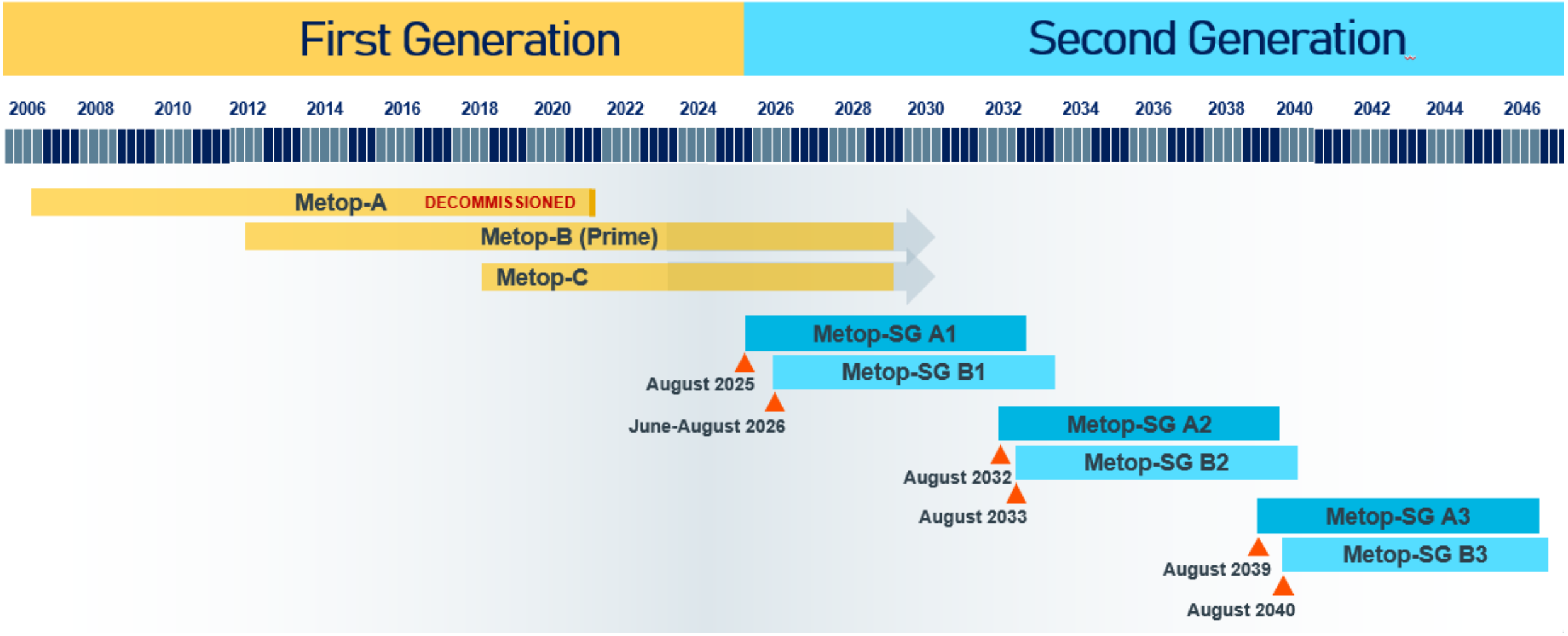
https://user.eumetsat.int/s3/eup-strapi-media/EPS_SG_Metop_SG_Direct_Data_Broadcast_DDB_Radio_Frequency_RF_Space_to_Ground_Interface_Control_Document_ICD_f3c95dcdef.pdf

https://user.eumetsat.int/s3/eup-strapi-media/EPS_SG_Local_Mission_DFEP_L0_Interface_Control_Document_1cee05dadd.pdf

https://user.eumetsat.int/news-events/news/eps-sg-local-processor-test-data

The Metop-SG regional data service complements the global data service by providing equivalent level 1 and level 2 data with a higher temporal frequency (typically 30-minutes latency), at a reduced spatial coverage. The service provides a timeliness suited to the needs of European operational short-range regional numerical weather prediction models.
The input data are acquired from the Metop-SG direct satellite broadcast collected via a network of direct readout reception stations located in the Azores, Kangerlussuaq, Svalbard, Lannion, Athens, and Maspalomas. The direct readout data are processed into level 1 and level 2 data at the EUMETSAT HQ for wider dissemination to users. As the Metop-SG regional data service uses the same processor as the equivalent global data service, the resulting data closely matches. The coverage includes Europe, the North Atlantic region, and parts of Africa and the Indian Ocean. The service incorporates data from METimage, MWS, IASI-NG, 3MI, RO, SCA, MWI and ICI.
In addition to be being disseminated to users through EUMETCast, and WIS2, the regional data are available from the Data Store for 30 days.
For more in-depth information see guides, documents, etc, in the **Resources** tab above.

EUMETSAT Polar System (EPS)



Thank you!

Questions are welcome.