EUMETSAT

EUMETSAT Regional Services Status

CSPP Meeting May 2026

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Additional Data Services Operations

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Agenda

- Regional Services
- EARS
- Roadmap items

EUMETSAT Regional Services

EUMETSAT Advanced Retransmission Service (EARS)
Direct acquisition of data from EUMETSAT Metop first gen, NOAA and CMA satellites by a regional network of HRPT Direct Broadcast stations which capture, process and retransmit the satellite data to Users in near real time.

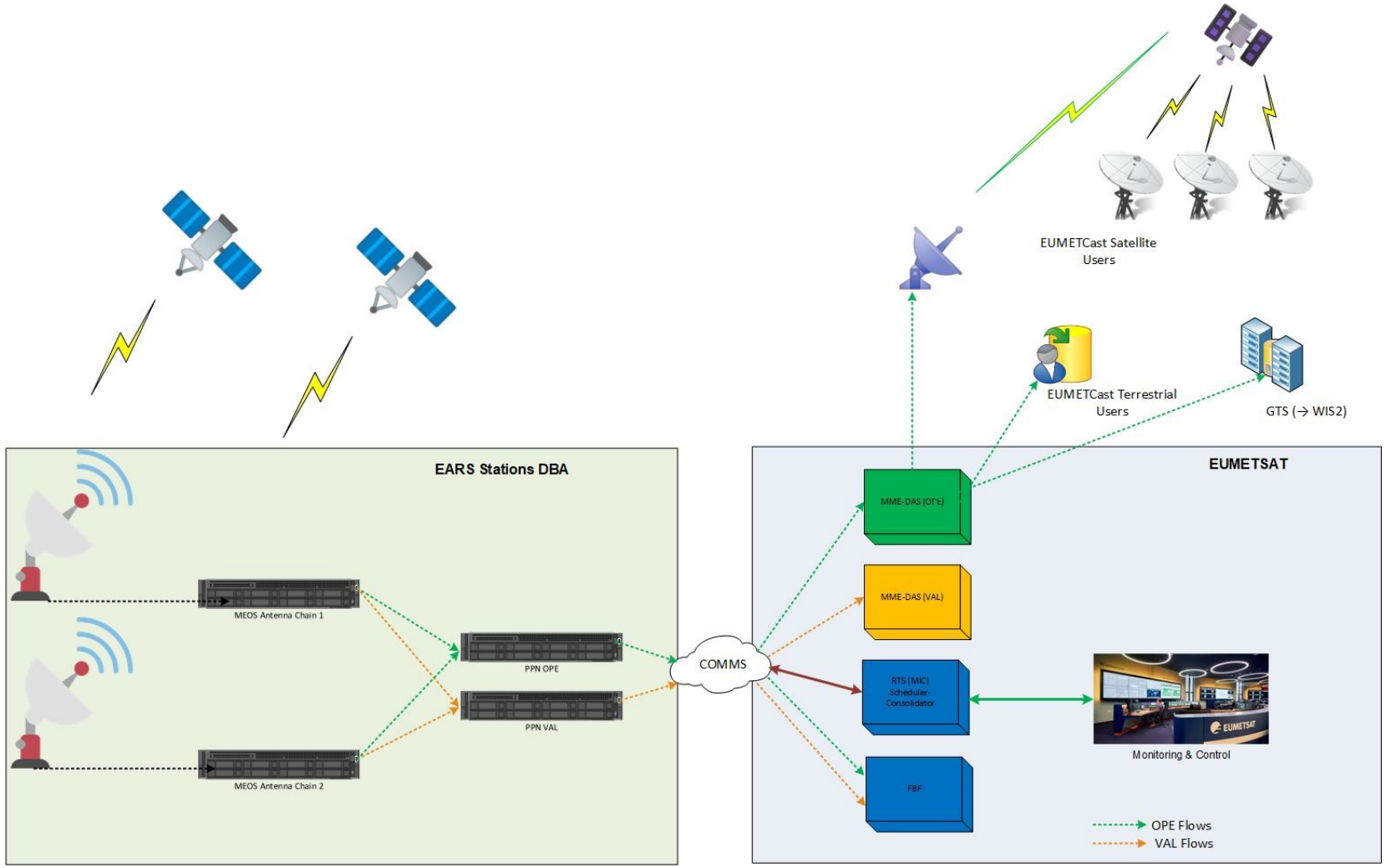
EUMETSAT Regional Services from Metop-SG
Direct acquisition of data from Metop-SG by the 5 Regional Core Stations (EARS) plus one dedicated station in the Azores. Centralised processing in EUMETSAT HQ. Dissemination via EUMETCAST and WIS 2.0. Access to data via the data store. Current timeline for the start of Metop-SG regional data is Q3 2026.

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

Metop-SG Local Mission
This covers the direct broad cast of Metop-SG data. The software package for that is provided by NWP-SAF and is covered in the NWP-SAF presentation.

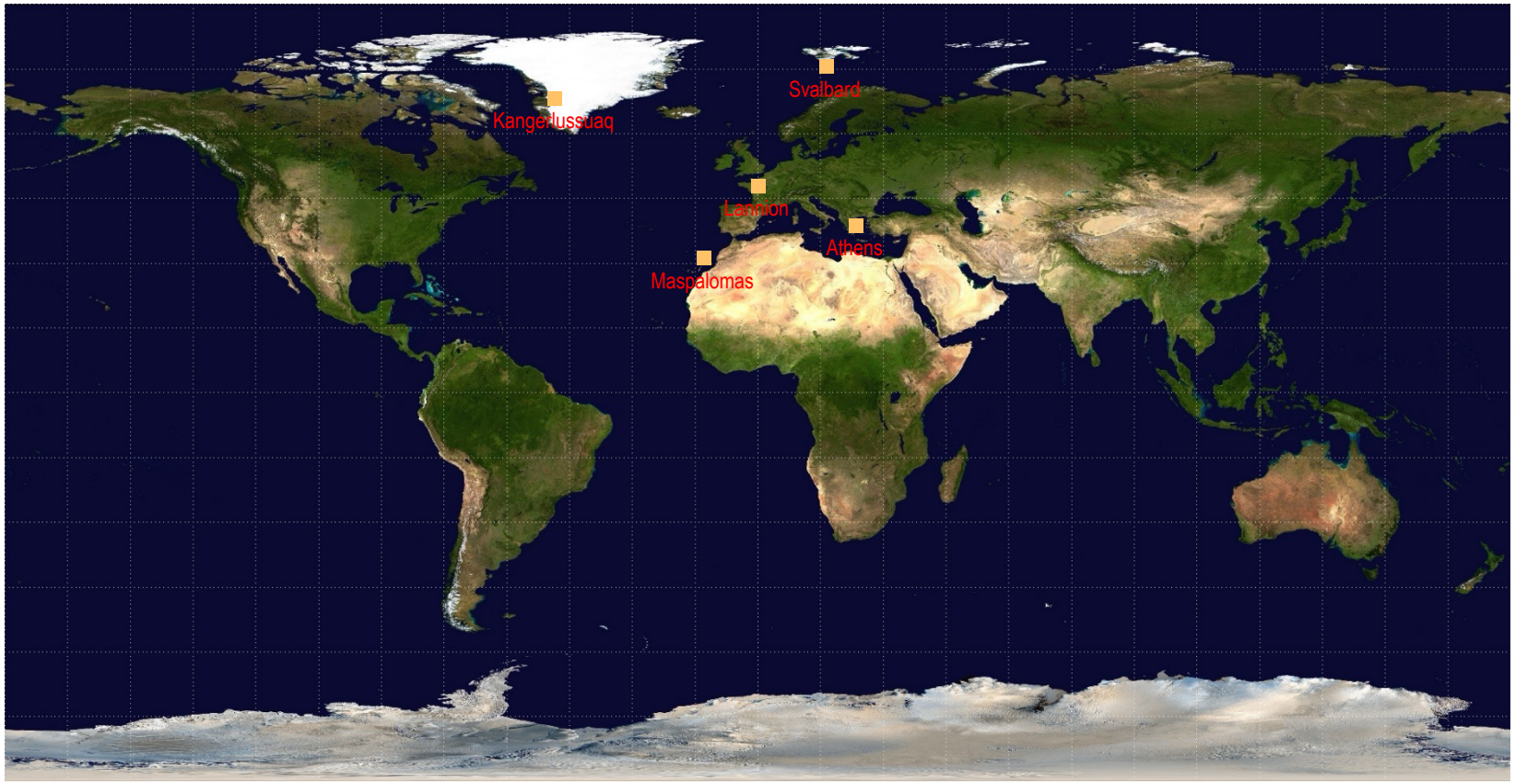
This presentation will focus on the current operational regional services provided by EARS

EARS – System Overview



10-30 Minutes

EARS Ground Stations Network (2025)



The EARS Ground Station Coverage

EARS-NG Station Services

EARS currently consists of the following 11 component instrument data services :

EARS-ASCAT, EARS-ATOVS, EARS-AVHRR, EARS-IASI, EARS-NWC(AVHHR & VIIRS), EARS-ATMS, EARS-CrIS , EARS-VIIRS, EARS-VASS, EARS-MERSI & EARS-MWRI

Service performance is measured in terms of timeliness, completeness and product quality of the data on the EUMETCast user reception stations.

The EARS Operational Service Specification is available under https://user.eumetsat.int/resources/user-guides/eumetsat-advanced-retransmission-service-ears

and EARS Data Catalogue under https://user.eumetsat.int/search-view?term=EARS&sort=score%20desc&facets=%7B%22contentTypes%22:%5B%22Data%22%5D%7D

EARS-NG Station Services

SERVICE/ DB STATION	EARS ATOVS	EARS AVHRR	EARS ASCAT	EARS IASI/L2	EARS NWC (AVHRR)	EARS NWC (VIIRS)	EARS ATMS	EARS CrIS	EARS VIIRS	EARS VASS	EARS MERSI	EARS MWRI
SVALBARD	MetB MetC	MetB MetC	MetB MetC	MetB MetC	MetB MetC	N20 N21	SNPP N20 N21	N20 N21	SNPP N20 N21	FY-3D FY-3E	FY-3D	FY-3D
KANGER-LUSSUAQ	MetB MetC	MetB MetC	MetB MetC	MetB MetC	MetB MetC	N20 N21	SNPP N20 N21	N20 N21	SNPP N20 N21	FY-3D FY-3E	FY-3D	FY-3D
LANNION	MetB MetC	MetB MetC	MetB MetC	MetB MetC	MetB MetC	N20 N21	SNPP N20 N21	N20 N21	SNPP N20 N21	FY-3D FY-3E	FY-3D	FY-3D
ATHENS	MetB MetC	MetB MetC	MetB MetC	MetB MetC	MetB MetC	N20 N21	SNPP N20 N21	N20 N21	SNPP N20 N21	FY-3D FY-3E	FY-3D	FY-3D
MASPALOMAS	MetB MetC	MetB MetC	MetB MetC	MetB MetC	MetB MetC	N20 N21	SNPP N20 N21	N20 N21	SNPP N20 N21	FY-3D FY-3E	FY-3D	FY-3D

Acquisition Priorities

- EUMETSAT has scheduling authority for the 5 core EARS stations:
  - Athens
  - Kangerlussuaq
  - Maspalomas
  - Svalbard
  - Lannion

Pre EPS-SG

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

Post EPS-SG

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

EARS Daily Data Volume

	DAILY DATA VOLUME Legacy (MB)	DAILY DATA VOLUME (%)	DAILY DATA VOLUME EARS-NG (MB)	DAILY DATA VOLUME (%)
EARS-ATOVS	**206**	0.60%	**199**	0.36%
EARS-AVHRR	**3031**	8.78%	**3046**	5.44%
EARS-ASCAT	**160**	0.46%	**157**	0.28%
EARS-IASI-L1	**1290**	3.74%	**1178**	2.10%
EARS-IASI-L2	**1850**	5.36%	**1698**	3.03%
EARS-NWC	**3538**	10.25%	**13434**	23.98%
EARS-ATMS	**192**	0.56%	**270**	0.48%
EARS-CrIS	**1082**	3.14%	**1076**	1.92%
EARS-VIIRS	**16769**	48.60%	**27459**	49.02%
EARS-VASS	**101**	0.29%	**100**	0.18%
EARS-MERSI	**5845**	16.94%	**6947**	12.40%
EARS-MWRI	**438**	1.27%	**453**	0.81%
Total	34502	100.00%	**56017**	100.00%
	~34 GB/Day		~55 GB/Day	

Notes:
EARS Legacy : Average from May 2025
EARS-NG: Average from July 2025

EARS Registered Users

	NUMBER OF EUMETCAST REGISTERED USERS 2024	NUMBER OF TERRESTRIAL REGISTERED USERS 2024	NUMBER OF EUMETCAST REGISTERED USERS 2025	NUMBER OF TERRESTRIAL REGISTERED USERS 2025	Increace NUMBER OF EUMETCAST REGISTERED USERS	Increace NUMBER OF TERRESTRIAL REGISTERED USERS
EARS-ATOVS	1292	32	1329	38	2.86%	18.75%
EARS-AVHRR	1655	28	1696	39	2.48%	39.29%
EARS-ASCAT	982	29	1024	37	4.28%	27.59%
EARS-IASI-L1	530	28	573	35	8.11%	25.00%
EARS-IASI-L2	348	26	394	34	13.22%	30.77%
EARS-NWC	515	27	556	34	7.96%	25.93%
EARS-ATMS	500	28	542	35	8.40%	25.00%
EARS-CrIS	497	28	539	35	8.45%	25.00%
EARS-VIIRS	546	33	590	42	8.06%	27.27%
EARS-VASS	403	27	450	34	11.66%	25.93%
EARS-MERSI	272	23	318	31	16.91%	34.78%
EARS-MWRI	194	35	241	40	24.23%	14.29%

Regional Services Roadmap

- FY-3F and 3H only support left hand polarisation (LHP). Not all of the EUMETSAT regional core stations support LHP. Currently only 3 antenna chains are capable to acquire FY3F (SVA antenna chain 2 SG188, Maspalomas antenna chain2 Orb2 and the EUMETSAT Dev station). EUMETSAT have started the process to upgrade the antenna feeds to Dual Polarization.

- EUMETSAT is in the process of upgrading the communications infrastructure to the regional core stations, also looking at each site to have full comms redundancy using GEANT where available.

- Metop-SG 1A regional services – Start expected Q3 2026

- Metop-SG 1B - launch planned 2026

- JPSS satellite series expansion – JPSS-4 2027
- FY-3J as a replacement for 3E – Q4 2026

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Thank you!

Questions are welcome.