

Technical approach for EUMETSAT Regional Services

Antoine Jeanjean

GS Systems Upgrade Project Manager

Georgios Potiriadis

Additional Data Services Operations Engineer

CSPP Users' Group Meeting, 19-21 May 2026



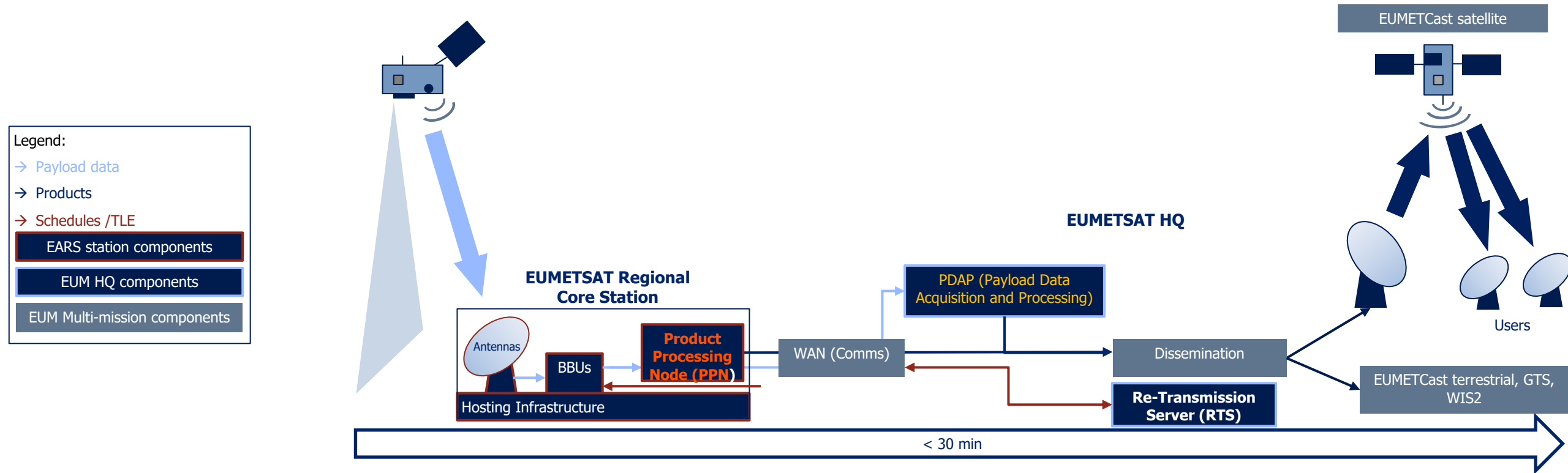


EUMETSAT Regional Services (15'):

- Overview
- EUMETSAT Regional Core Stations
- Product Processing Node (PPN)
- Scheduling System (RTS)
- Data Consolidation
- Timeliness
- Environments
- Software Deployment Processes

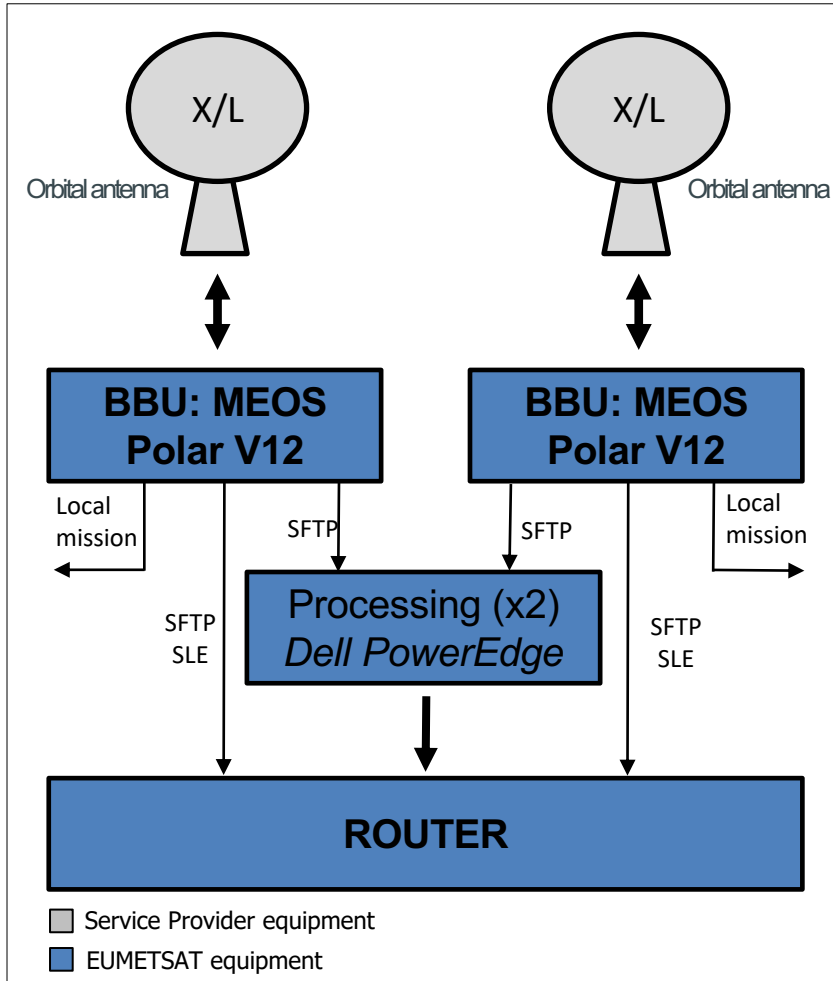
EUMETSAT Regional Services Operations (15')

EUMETSAT Regional Services: Overview



EUMETSAT Regional Services	Satellites Families	Processing Location – Processing System
EARS	FY3, METOP, NOAA	Regional Core Stations – PPN
EPS-SG	EPS-SG	EUMETSAT HQ – EPS-SG PDAP
EPS-Sterna	EPS-Sterna	EUMETSAT HQ – EPS-Sterna PDAP

This presentation mainly focuses on the technical approach used for the EARS services (FY3, METOP, NOAA).



Harmonisation of EUMETSAT Regional Core Stations architecture:

- In 2020, the EPS-SG Regional Mission project homogenised all EARS stations in terms of hardware and software. Beforehand, each EARS stations had hardware heterogeneity.
 - Antenna: CPII Orbital Systems
 - BBU: MEOS Polar V12
- In 2025, the Product Processing Servers were upgraded via the EARSNG project to new hardware and software platforms.
- Homogeneity provides numerous benefits:
 - Standardised hardware (unified spare parts, similar type of anomaly across network)
 - Standardised operations / monitoring
 - Unified software (e.g. simplify deployment)
 - Contractual harmonisation (larger contracts vs more numerous smaller contracts)

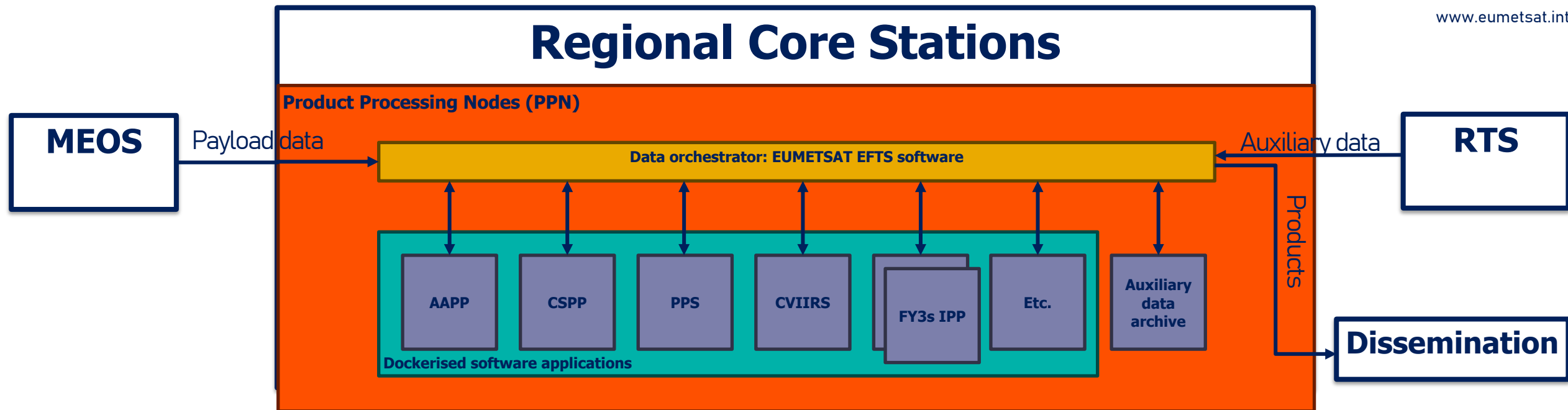
EUMETSAT Regional Core Stations

www.eumetsat.int



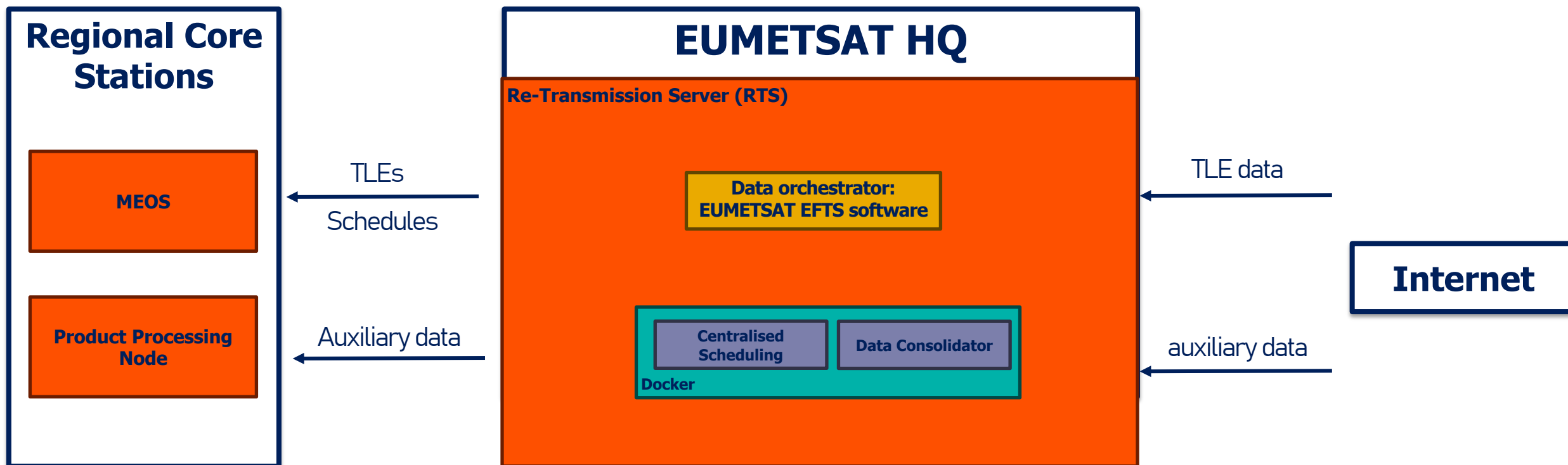


- EUMETSAT owns a regional reference station located in EUMETSAT HQ. The antenna is located on the top of the data centre.
- This station is composed of a single reception chain identical in terms of hardware and software to the regional core stations.
- This station is used for testing (software, hardware) before deployment in the regional core stations.



The Product Processing Nodes functions are:

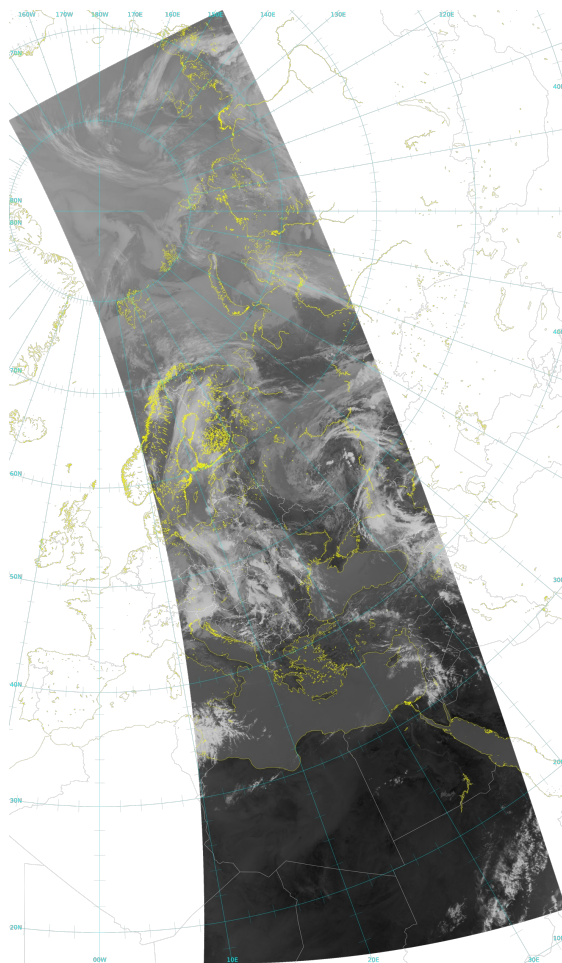
- Data Processing: Generate products for the FY3, METOP and NOAA satellites families.
- Orchestration: Orchestrate generation of products via docker containers, auxiliary data, and products dissemination to EUMETCast.
- Other features:
 - All software applications run in docker
 - End to end timeliness of EARS services within 20 minutes (dedicated slide later on in presentation).



The Re-Transmission Server (RTS) functions are:

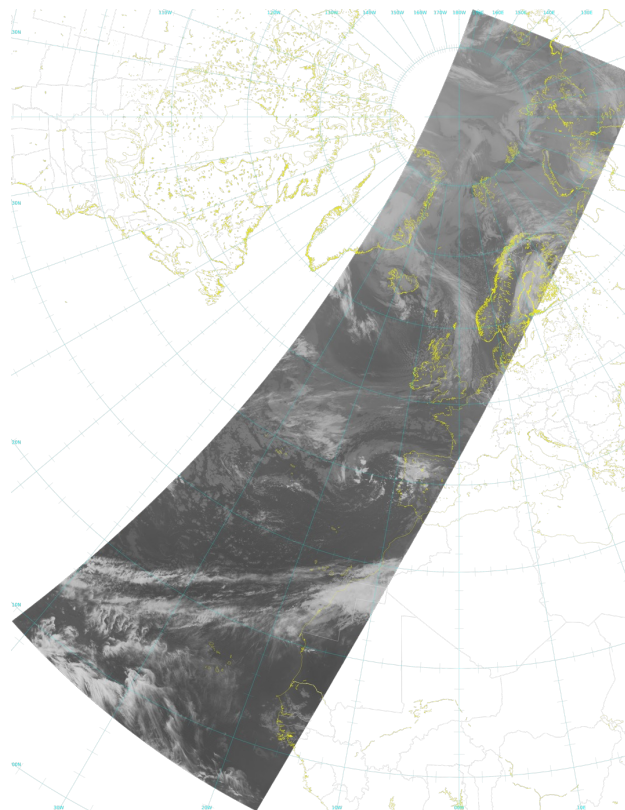
- TLE provision: Provide TLE to the MEOS (required for satellite tracking)
- Centralised scheduling: Generate deconflicted schedules for the regional stations (accounts for horizon masks and satellite priorities)
- Auxiliary provision: Provide auxiliary data to the processing nodes required for processing
- Data consolidation: Removal of duplicated data between the regional stations for the imagers services (AVHRR, MERSI, VIIRS)

METOPC pass consolidated over Svalbard and Athens



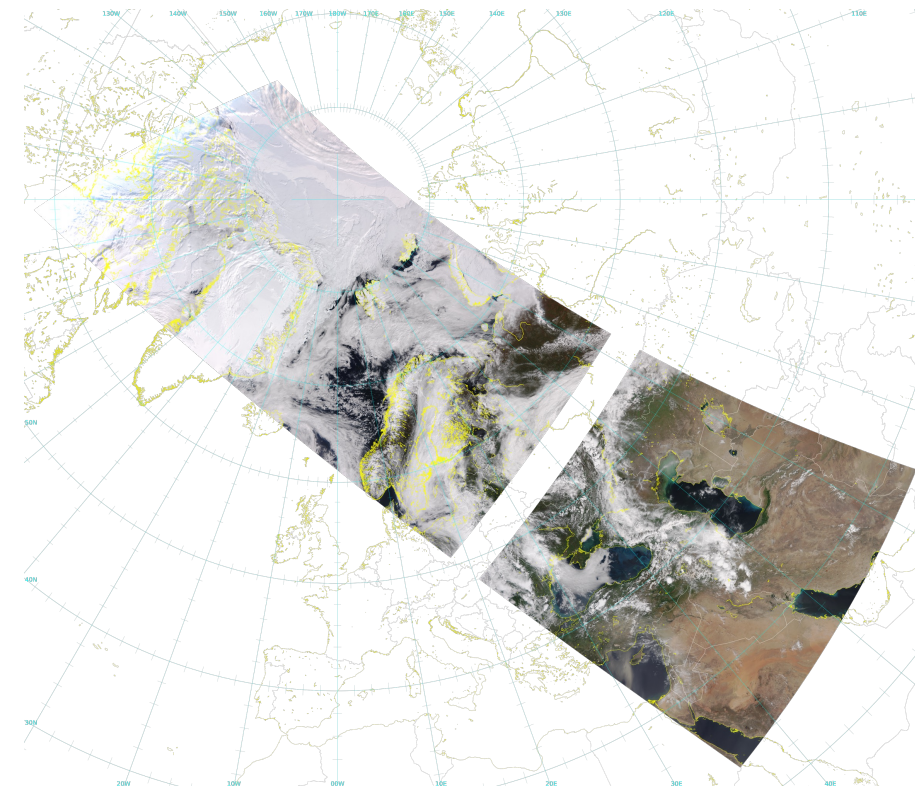
**METOPC, orbit 38974, AVHRR, 2026/05/12
07h49m22s, 26 segments of one minute**

FY3D pass consolidated over sva-kan-lan-mas



**FY3D, orbit 43988, mersi-2, 2026/05/12 05H16M22S, 28
segments of one minute**

NOAA20 pass consolidated over ath-sva-kan



**NOAA20, orbit 43941, viirs, 2026/05/12 09H50M48S, 18
granules**

- All EUMETSAT regional services data is being disseminated via EUMETCast – GEO relay satellite. Bandwidth cost for data dissemination via satellite is high.
- Removal of data duplicate provides significant cost benefits, as the imagers services and cloud products generated from imager are the largest products in size.
- To further decrease bandwidth cost, EUMETSAT compresses VIIRS data via the CVIIRS software – Compact VIIRS format.

EARS Services	Instrument Type	Daily Data Volume (GB)	Daily Data Volume (%)	Consolidated
VIIRS	Imager	27.5	49%	Yes
NWC	Cloud	13.4	24%	Yes
MERSI	Imager	6.9	12%	Yes
AVHRR	Imager	3.0	5%	Yes
IASI	Hyperspectral	2.7	5%	No
CRIS	Hyperspectral	1.1	2%	No
MWRI	Microwave Imager	0.5	<1%	No
ATMS	Sounder	0.3	<1%	No
ATOVS	Sounder	0.2	<1%	No
ASCAT	Scatterometer	0.2	<1%	No
VASS	Sounder	0.1	<1%	No

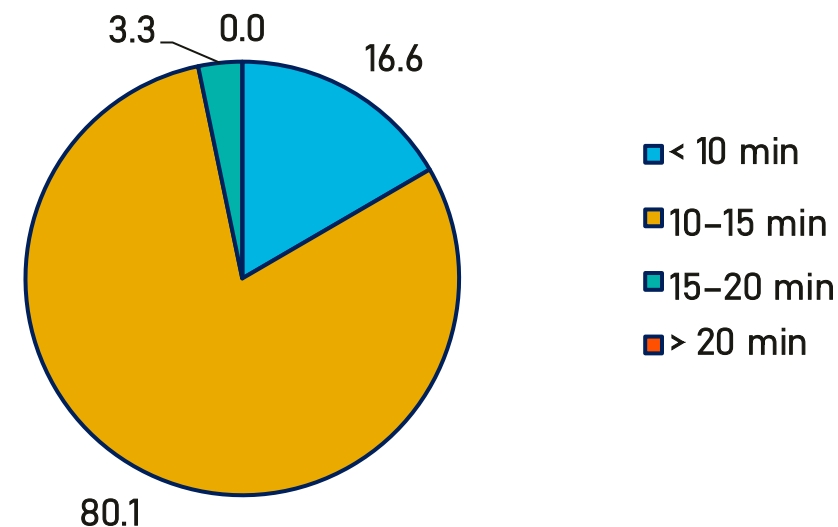


Imagers and cloud services account for 90% of the EARS services data volume

Timeliness of EARS Services for April 2026:

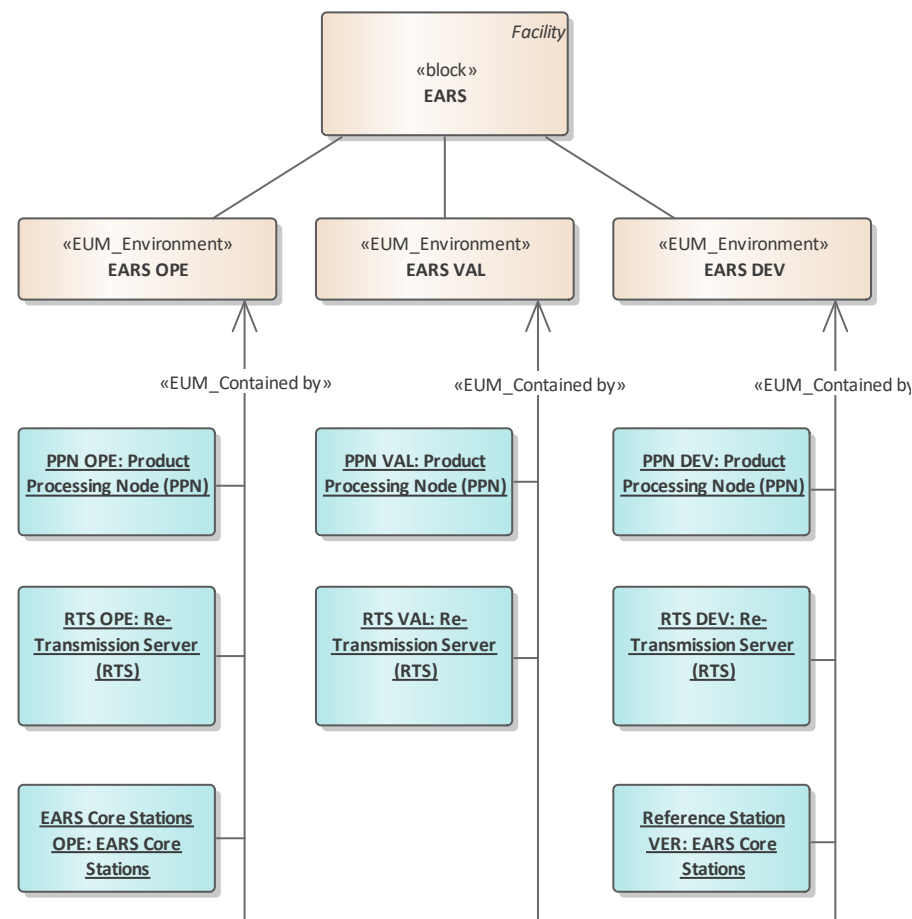
EARS Services	Instrument Type	Daily Data Volume (GB)	Average Timeliness (mm:ss)
VIIRS	Imager	27.5	10:20
NWC	Cloud	13.4	12:16
MERSI	Imager	6.9	11:25
AVHRR	Imager	3.0	12:30
IASI	Hyperspectral	2.7	17:45
CRIS	Hyperspectral	1.1	12:28
MWRI	Microwave Imager	0.5	13:46
ATMS	Sounder	0.3	12:31
ATOVS	Sounder	0.2	13:52
ASCAT	Scatterometer	0.2	15:46
VASS	Sounder	0.1	13:12

Timeliness Range for ATMS, April 2026 (%)



EUMETSAT Regional Services are composed of 3 environments:

- **Operational (OPE)**: this is the environment from which the regional services are ran operationally.
- **Validation (VAL)**: this is the environment from which the regional services are validated by operations team before deployment in OPE.
- **Development (DEV)**: this is the initial environment from which the regional services are implemented and tested.
- Configuration control: software deployed in VAL and OPE are done under configuration control (e.g. rpm version).





Automated Software Deployment Workflow

www.eumetsat.int

- Streamlining software deployment with automation and package management: from git commit to production via CI/CD and Yum

STEP	STAGE	DESCRIPTION	KEY BENEFIT
1	Source Control	Code commit to GitLab triggers CI/CD pipeline with automated tests	Early defect detection and consistent quality checks
2	Build & Package	Successful tests lead to automatic RPM creation and upload to Nexus	Versioned, traceable, and reusable artifacts
3	Development	DEV systems run 'yum update' to install the latest RPM automatically	Fast validation in a production-like environment
4	Validation & Operations	Same 'yum update' process applied to VAL and OPE environments	Consistency, reliability, and deployment confidence

Status

Passed
00:04:49
1 month ago

Pipeline

#443334
Merge branch 'feature/SCHED-108' in...
ears-pass-generator-1.3.2
997a86b1
latest tag

Created by

Stages

✓ ✓ ✓ ✓

Browse / EARS-NG

HTML View

ears-efts-du

ears-ppn2-efts-configuration

ears-efts-ppn2-conf-1.1-11.noarch.rpm

ears-efts-ppn2-conf-1.1-12.noarch.rpm

ears-efts-ppn2-conf-1.1-13.noarch.rpm

ears-efts-ppn2-conf-1.1-14.noarch.rpm

ears-efts-ppn2-conf-1.1-58.noarch.rpm

RPM Name	CM Conf Item	Version
PPN-core-installation*	ears-ppn2-3party	1.0-1
pmacu	ears-ppn2-EFTS-SU	1.0-3
efts-agents	user-crontab-manager	3.09-00
user-crontab-manager	ears-ppn2-system-conf	1.0-21
ears-ppn2-system-conf	ears-ppn2-system-conf	1.1-506
gems-client-su	ears-ppn2-gems-client-du	4.11.3-1
ears-ppn2-gems-client-du	ears-efts-ppn2-conf	1.0.5-107
ears-efts-ppn2-conf	ears-efts-ppn2-conf	1.1-58
ears-efts-ppn2-auxdata-SU	ears-efts-ppn2-auxdata-SU	1.2-759
ears-efts-ppn2-auxdata-DU	ears-efts-ppn2-auxdata-DU	1.2-759
ears-efts-ppn2-fy3x-SU	ears-efts-ppn2-fy3x-SU	1.2-759
ears-efts-ppn2-fy3x-DU	ears-efts-ppn2-fy3x-DU	1.2-759
ears-efts-ppn2-metop-SU	ears-efts-ppn2-metop-SU	1.2-776



- EUMETSAT Regional Services: Operations

EUMETSAT Advanced Retransition Service (EARS) Operating Principle

Direct acquisition of data from EUMETSAT, 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.

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

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

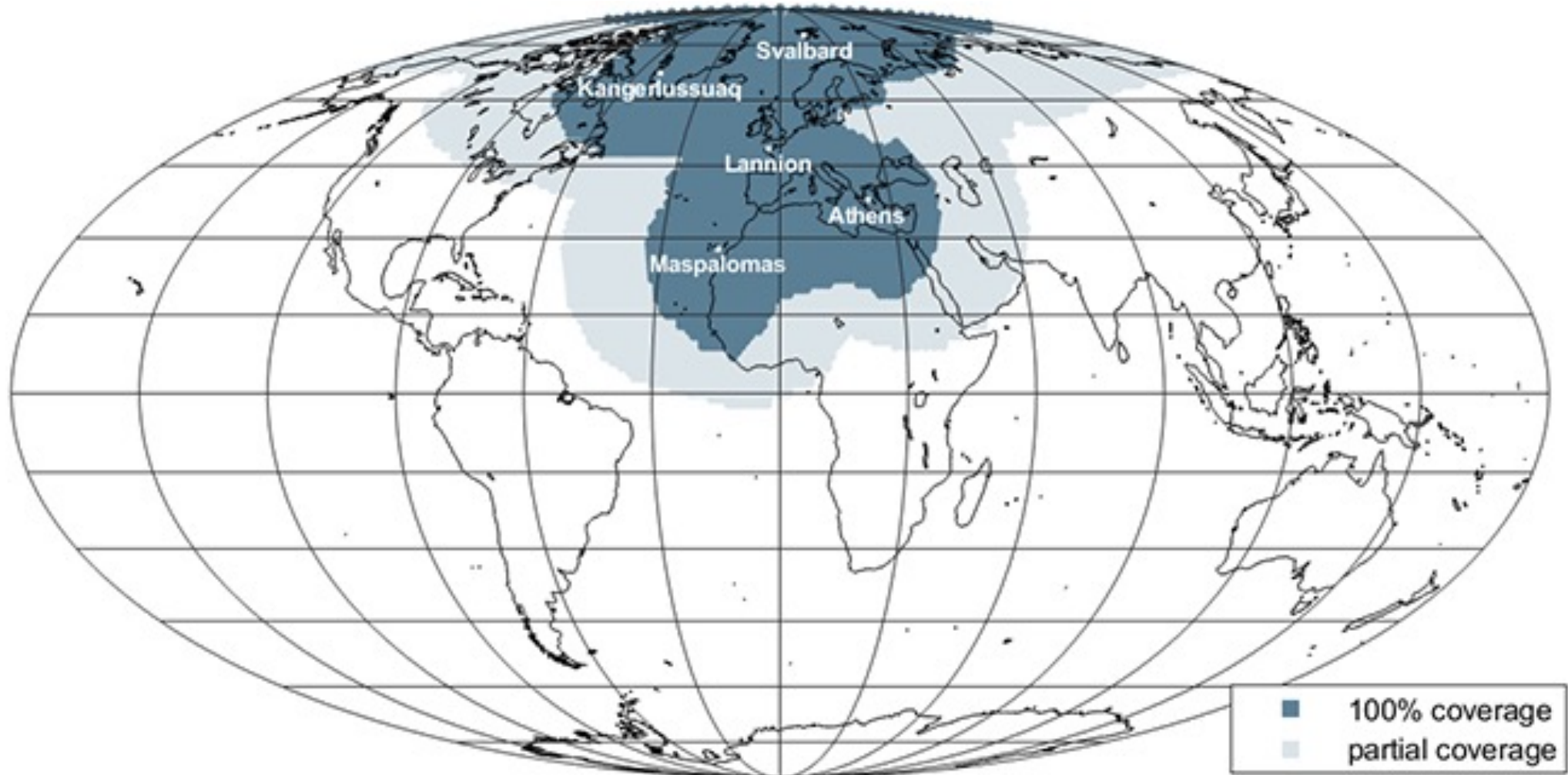
Service performance is measured in terms of timeliness, completeness and product quality of the data on the EUMETCast user reception stations.

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%22contentType%22%5B%22Data%22%5D%7D>

The EARS Ground Station Coverage

www.eumetsat.int

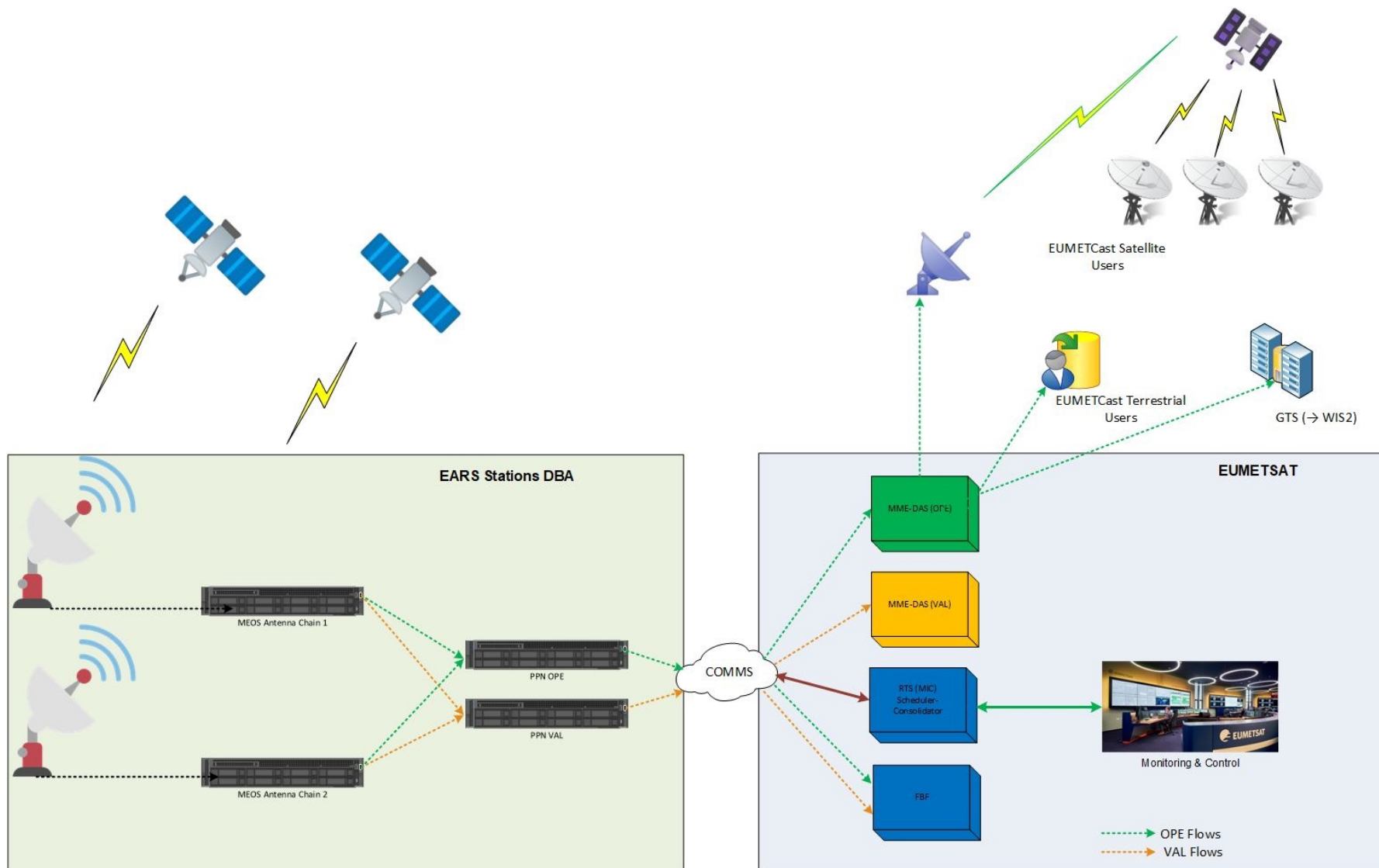




EARS Station Services

www.eumetsat.int

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



- Athens ⇔ EUMETSAT => PCCW 100 Mbps (Prime)
- Athens ⇔ EUMETSAT => GEANT 1Gbps (Backup-VAL) *OPE in Q3 2026*
- Maspalomas ⇔ EUMETSAT => PCCW 100 Mbps (Prime)
- Maspalomas ⇔ EUMETSAT => GEANT 1Gbps (Backup-VAL)
- Kangerlussuaq ⇔ EUMETSAT => PCCW 100 Mbps (Prime)
- Lannion ⇔ EUMETSAT => PCCW 100 Mbps (Prime)
- Lannion ⇔ EUMETSAT => GEANT 1Gbps (Backup-VAL) *OPE in Q1 2027*
- Svalbard EUMETSAT => GEANT 200 Mbps (Prime)
- Svalbard EUMETSAT => KSAT Link 100 Mbps (Backup)

- SMART (Scheduling, Monitoring, Analysis and Reporting Tool) ⇔ (EUMETSAT + Station Operators)
- GEMS (Generic Event Monitoring System) ⇔ (EUMETSAT)
- MEOS GUI ⇔ (EUMETSAT + Station Operators)
- MEOS Web Reports ⇔ (EUMETSAT + Station Operators)
- OP5 ⇔ (EUMETSAT)
- EARS Stations Antennas Rebalance Tool ⇔ (EUMETSAT)
- NWP & NWC SAF Quality Monitoring Pages ⇔ (EUMETSAT + Station Operators)

EARS - Controller ATOVS (EARSNG)

Predict...

Predict...

Schedu...

Schedu...

Satellite

Antenna

Station

Rcvd at...

PPN to ...

Sent To ...

Rcvd at...

Orbit

Timelin...

252-011...

252-012...

252-011...

252-012...

metopb

orb

kan

8 of 8

2 of 2

2 of 2

2 of 2

67332

13m26.0...

252-012...

252-013...

252-012...

252-013...

metopb

cda

sva

8 of 8

2 of 2

2 of 2

2 of 2

67332

12m08.0...

252-020...

252-021...

252-020...

252-021...

metopb

orb

kan

8 of 8

2 of 2

2 of 2

2 of 2

35490

12m10.1...

252-021...

252-022...

252-021...

252-022...

metopc

cda

sva

8 of 8

2 of 2

2 of 2

2 of 2

35490

12m16.0...

252-030...

252-031...

252-030...

252-031...

metopb

cda

sva

8 of 8

2 of 2

2 of 2

2 of 2

67333

13m16.0...

252-035...

252-040...

252-035...

252-040...

metopb

cda

sva

8 of 8

2 of 2

2 of 2

2 of 2

35491

12m34.0...

252-044...

252-045...

252-044...

252-045...

metopb

cda

sva

10 of 10

2 of 2

2 of 2

2 of 2

67334

13m26.0...

252-053...

252-054...

252-053...

252-054...

metopc

cda

sva

10 of 10

2 of 2

2 of 2

2 of 2

35492

14m43.0...

252-063...

252-064...

252-063...

252-064...

metopb

cda

sva

10 of 10

2 of 2

2 of 2

2 of 2

67335

15m22.0...

252-064...

252-065...

252-064...

252-065...

metopb

orb2

ath

8 of 8

2 of 2

2 of 2

2 of 2

67335

12m11.0...

252-072...

252-073...

252-072...

252-073...

metopc

cda

sva

10 of 10

2 of 2

2 of 2

2 of 2

35493

15m37.0...

252-073...

252-074...

252-073...

252-074...

metopb

orb2

ath

8 of 8

2 of 2

2 of 2

2 of 2

35493

12m38.0...

EARS - Controller AVHRR (EARSNG)

Schedule ...

Schedule ...

Region St...

Region E...

Satellite

Stations

Region D...

Decisions

To EUME...

User Stati...

Timeliness

251-2142...

251-2209...

251-2142...

251-2210...

metopb

mas-lan-k...

00:2800

U 28 of 28

U 28 of 28

U 28 of 28

U 10m01...

251-2232...

251-2259...

251-2232...

251-2300...

metopc

mas-lan-k...

00:2800

U 28 of 28

U 28 of 28

U 28 of 28

U 08m19...

251-2334...

251-2350...

251-2334...

251-2351...

metopb

kan-sva

00:1700

U 17 of 17

U 17 of 17

U 17 of 17

U 10m02...

252-0026...

252-0040...

252-0024...

252-0041...

metopc

kan-sva

00:1700

U 17 of 17

U 17 of 17

U 17 of 17

U 10m03...

252-0161...

252-0132...

252-0116...

252-0133...

metopb

kan-sva

00:1700

U 17 of 17

U 17 of 17

U 17 of 17

U 10m04...

252-0207...

252-0223...

252-0207...

252-0223...

metopc

kan-sva

00:1600

U 16 of 16

U 16 of 16

U 16 of 16

U 09m22...

252-0307...

252-0315...

252-0307...

252-0316...

metopb

sva

00:0900

U 9 of 9

U 9 of 9

U 9 of 9

U 05m22...

252-0357...

252-0406...

252-0357...

252-0407...

metopc

sva

00:1000

U 10 of 10

U 10 of 10

U 10 of 10

U 05m06...

252-0449...

252-0459...

252-0449...

252-0500...

metopb

sva

00:1100

U 11 of 11

U 11 of 11

U 11 of 11

U 05m07...

252-0539...

252-0549...

252-0539...

252-0550...

metopc

sva

00:1100

U 11 of 11

U 11 of 11

U 11 of 11

U 05m07...

252-0630...

252-0654...

252-0630...

252-0655...

metopb

sva-ath

00:2500

U 24 of 24

U 24 of 24

U 24 of 24

U 09m20...

252-0720...

252-0744...

252-0720...

252-0745...

metopc

sva-ath

00:2500

U 25 of 25

U 25 of 25

U 25 of 25

U 07m21...

EARS - Controller ATMS (EARSNG)

Predict...

Predict...

Schedu...

Schedu...

Satellite

Antenna

Station

Rcvd P...

PPN to ...

Sent to ...

User St...

Orbit

Timelin...

252-045...

252-050...

252-045...

252-050...

noaa20

orb

kan

5 of 5

1 of 1

1 of 1

1 of 1

40461

17m14.2...

252-054...

252-055...

252-054...

252-055...

noaa20

sg7

sva

5 of 5

1 of 1

1 of 1

1 of 1

14670

19m19.7...

252-054...

252-060...

252-054...

252-060...

noaa21

orb

kan

5 of 5

1 of 1

1 of 1

1 of 1

14670

19m59.7...

252-060...

252-062...

252-060...

252-062...

npp

sg7

sva

5 of 5

1 of 1

1 of 1

1 of 1

17188

15m15.0...

252-061...

252-062...

252-061...

252-062...

npp

orb2

kan

5 of 5

1 of 1

1 of 1

1 of 1

17188

17m54.7...

252-063...

252-064...

252-063...

252-064...

noaa20

sg7

sva

5 of 5

1 of 1

1 of 1

1 of 1

14042

17m31.2...

252-063...

252-064...

252-063...

252-064...

noaa20

orb

kan

5 of 5

1 of 1

1 of 1

1 of 1

14042

17m39.2...

252-072...

252-073...

252-072...

252-073...

noaa21

sg7

sva

5 of 5

1 of 1

1 of 1

1 of 1

14671

19m19.8...

252-072...

252-074...

252-072...

252-074...

noaa21

orb

kan

5 of 5

1 of 1

1 of 1

1 of 1

14671

19m27.8...

252-074...

252-080...

252-074...

252-080...

npp

sg7

sva

5 of 5

1 of 1

1 of 1

1 of 1

17189

17m08.0...

252-075...

252-080...

252-075...

252-080...

npp

orb

kan

5 of 5

1 of 1

1 of 1

1 of 1

17189

16m39.7...

252-081...

252-082...

252-081...

252-082...

noaa20

sg7

sva

1 of 1

0 of 1

0 of 1

0 of 1

00.0000

EARS - Controller CRIS (EARSNG)

Predict...

Predict...

Schedu...

Schedu...

Satellite

Antenna

Station

Rcvd P...

PPN to ...

Sent to ...

User St...

Orbit

Timelin...

252-040...

252-041...

252-040...

252-041...

noaa21

orb

kan

5 of 5

1 of 1

1 of 1

1 of 1

14669

17m41.5...

252-040...

252-041...

252-040...

252-041...

noaa21

as3

Viewer SMART Group I

EARS-ATOV5 EARS-AVHRR EARS-ASCAT EARS-IASI

Viewer SMART Group II

EARS-ATMS EARS -CrIS EARS-VIIRS EARS-NWC (VIIRS)

[illegible]

Viewer SMART Group III

EARS-NWC (AVHRR) EARS-VASS EARS-MERSI EARS-MWRI



EARS SMART Monitoring Tool (Station Operators)

www.eumetsat.int

EARS - ASCAT Athens (EARSNG)														
Predict...	Predict...	Schedu...	Schedu...	Satellite	Antenna	Station	Rcvd at...	PPN to ...	L2 sent ...	User St...	Orbit	Timelin...		
252-07:3...	252-07:4...	252-07:3...	252-07:4...	metopc	orb2	ath	4 of 4	2 of 2	2 of 2	2 of 2	35493	14m42.0...		
252-08:2...	252-08:3...	252-08:2...	252-08:3...	metopb	orb2	ath	4 of 4	2 of 2	2 of 2	2 of 2	67336	20m26.0...		

EARS - ATOVS Athens (EARSNG)

Predict...	Predict...	Schedu...	Schedu...	Satellite	Antenna	Station	Rcvd at...	PPN to ...	Sent To...	Rcvd at...	Orbit	Timelin...
252-07:3...	252-07:4...	252-07:3...	252-07:4...	metopc	orb2	ath	8 of 8	2 of 2	2 of 2	2 of 2	35493	12m38.0...
252-08:2...	252-08:3...	252-08:2...	252-08:3...	metopb	orb2	ath	8 of 8	0 of 2	0 of 2	0 of 2	0	00.000s

EARS - IASI Athens (EARSNG)													
Predi...	Predi...	Sche...	Sche...	Satel...	Ante...	Stati...	Rcvd...	L1 to...	L2 to...	L1 to...	L2 to...	Orbit	iasil1...
252-0...	252-0...	252-0...	252-0...	metopc	orb2	ath	4 of 4	1 of 1	1 of 1	1 of 1	1 of 1	35493	1 of 1
252-0...	252-0...	252-0...	252-0...	meto...	orb2	ath	0 of 1	0 of 1	0 of 1	0 of 1	0 of 1	0	00.00s

EARS - VASS Athens (EARSNG)

Predict...	Predict...	Schedu...	Schedu...	Satellite	Antenna	Station	Rcvd P...	PPN to ...	Sent to ...	User St...	Orbit	Timelin...
252-03:0...	252-03:1...	252-03:0...	252-03:1...	fy3e	orb1	ath	4 of 4	2 of 2	2 of 2	2 of 2	21669	11m52.0...
252-04:4...	252-04:5...	252-04:4...	252-04:5...	fy3e	orb1	ath	4 of 4	2 of 2	2 of 2	2 of 2	21670	13m40.0...

EARS - Controller AVHRR NWC (EARSNG)													
Sched...	Sched...	Regio...	Regio...	Satelli...	Statio...	AVHR...	to EU...	@Use...	Timeli...	L1b > ...	Cloud	to EU...	@Use...
252-07...	252-07...	252-07...	252-07...	metopc	sva-ath	U 25 o...	U 25 o...	U 25 o...	U 07m...	U 25 o...	U 75 o...	U 75 o...	U 11m...
252-08...	252-08...	252-08...	252-08...	metopb	sva-lan...	U 25 o...	U 25 o...	U 25 o...	U 06m...	U 25 o...	U 75 o...	U 75 o...	U 10m...

EARS - Controller VIIRS (EARSNG)										
Schedule ...	Schedule ...	Region St...	Region E...	Satellite	Stations	Region D...	Segments	To EUME...	User Stati...	Timeliness
252-07:48...	252-08:07...	252-07:47...	252-08:08...	npp	sva-kan	00:21:20	14 of 14	14 of 14	14 of 14	12m58.680s
252-08:10...	252-08:28...	252-08:09...	252-08:29...	noaa20	sva-kan	00:19:54	14 of 14	14 of 14	14 of 14	13m27.986s

EARS - ATMS Athens (EARSNG)														
Predict...	Predict...	Schedu...	Schedu...	Satellite	Antenna	Station	Rcvd P...	PPN to ...	Sent to ...	User St...	Orbit	Timelin...		
252-01:1...	252-01:2...	252-01:1...	252-01:2...	npp	orb1	ath	4 of 4	1 of 1	1 of 1	1 of 1	71855	12m37.7...		
252-01:4...	252-01:5...	252-01:4...	252-01:5...	noaa20	orb1	ath	3 of 3	1 of 1	1 of 1	1 of 1	40459	10m55.7...		

EARS - CRIS Athens (EARSNG)

Predict...	Predict...	Schedu...	Schedu...	Satellite	Antenna	Station	Rcvd P...	PPN to ...	Sent to ...	User St...	Orbit	Timelin...
252-00:5...	252-01:0...	252-00:5...	252-01:0...	noaa21	orb1	ath	4 of 4	1 of 1	1 of 1	1 of 1	14667	17m16.7...
252-01:4...	252-01:5...	252-01:4...	252-01:5...	noaa20	orb1	ath	3 of 3	1 of 1	1 of 1	1 of 1	40459	10m14.7...

EARS - MWRI Athens (EARSNG)

Predict...	Predict...	Schedu...	Schedu...	Satellite	Antenna	Station	Rcvd P...	PPN to ...	Sent to ...	User St...	Orbit	Timelin...
252-00:5...	252-01:0...	252-00:5...	252-01:0...	fy3d	orb2	ath	4 of 4	2 of 2	2 of 2	2 of 2	40509	12m24.7...
252-02:3...	252-02:4...	252-02:3...	252-02:4...	fy3d	orb1	ath	4 of 4	2 of 2	2 of 2	2 of 2	40510	14m18.0...

EARS - Controller AVHRR (EARSNG)										
Schedule ...	Schedule ...	Region St...	Region E...	Satellite	Stations	Region D...	Decisions	To EUME...	User Stati...	Timeliness
252-07:20...	252-07:44...	252-07:20...	252-07:45...	metopc	sva-ath	00:25:00	U 25 of 25	U 25 of 25	U 25 of 25	U 07m21...
252-08:11...	252-08:35...	252-08:11...	252-08:36...	metopb	sva-lan-ath	00:25:00	U 25 of 25	U 25 of 25	U 25 of 25	U 06m29...

EARS - Controller MERSI (EARSNG)										
Predict. S...	Predict. E...	Schedule ...	Schedule ...	Satellite	Stations	Region D...	Decisions	Sent to E...	User Stati...	Timeliness
252-05:46...	252-06:11...	252-05:46...	252-06:11...	fy3d	sva-kan-la...	00:26:00	48 of 48	48 of 48	48 of 48	10m24.662s
252-07:26...	252-07:46...	252-07:26...	252-07:46...	fy3d	sva-kan	00:20:00	38 of 38	38 of 38	38 of 38	10m32.373s

EARS - Controller VIIRS NWC (EARSNG)													
Sched...	Sched...	Regio...	Regio...	Satelli...	Statio...	Regio...	Segm...	To EU...	User S...	Timeli...	Cloud	to EU...	@Use...
252-07...	252-07...	252-07...	252-07...	noaa21	sva-kan	00:21:20	15 of 15	15 of 15	15 of 15	15m26...	45 of 45	45 of 45	45 of 45
252-08...	252-08...	252-08...	252-08...	noaa20	sva-kan	00:19:54	14 of 14	14 of 14	14 of 14	13m27...	42 of 42	42 of 42	42 of 42

EARS SMART Performance reporting

www.eumetsat.int

EUMETSAT

Reporting

Viewer

Annotations

SMART

2/2 Instances

ears

?

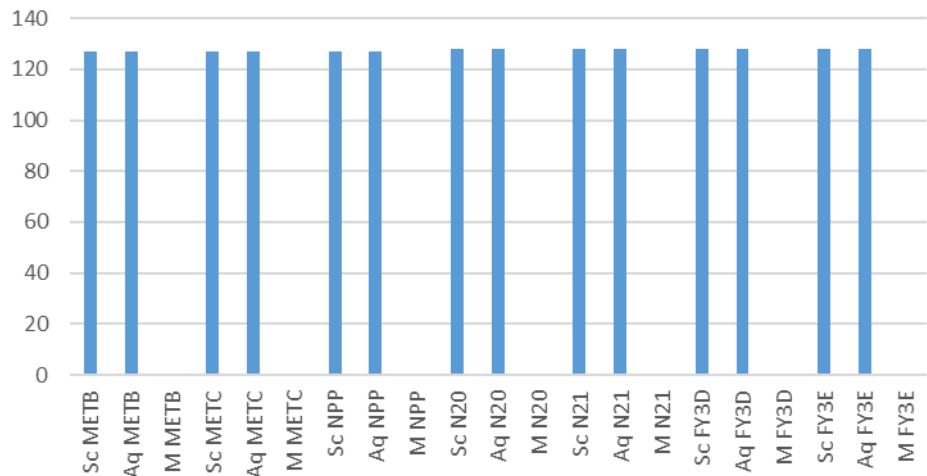
Custom EARS - Missed Passes (EARSNG)

Back

Custom EARS - Missed Passes Period: Absolute Summary: 1 Month Start: 2025-07-01 00:00:00 (DOY 182) End: 2025-08-01 00:00:00 (DOY 213)

Tabular Data																						
Displaying: Row Filter: Athens; Greece Kangerlussuaq; Greenland Lannion; France Maspalomas; Spain Svalbard; Norway																						
Predict. Start	station	Scheduled metopb	Acquired metopb	Missed metopb	Scheduled metopc	Acquired metopc	Missed metopc	Scheduled npp	Acquired npp	Missed npp	Scheduled noaa20	Acquired noaa20	Missed noaa20	Scheduled noaa21	Acquired noaa21	Missed noaa21	Scheduled fy3d	Acquired fy3d	Missed fy3d	Scheduled fy3e	Acquired fy3e	Missed fy3e
212-23:42:59	Athens; Greece	127	127	0	127	127	0	127	127	0	128	128	0	128	128	0	128	128	0	128	128	0
212-23:44:32	Kangerlussuaq; Greenland	280	280	0	320	322	0	322	322	0	321	321	0	322	322	0	318	318	0	319	319	0
212-23:43:24	Lannion; France	163	163	0	183	182	1	184	184	0	184	183	1	164	164	0	185	184	1	184	184	0
212-23:35:18	Maspalomas; Spain	128	128	0	128	128	0	130	130	0	130	130	0	130	130	0	131	131	0	127	127	0
212-23:56:58	Svalbard; Norway	441	441	0	440	440	0	440	440	0	440	440	0	440	440	0	440	440	0	440	440	0
Summary	Athens; Greece; Kang...	1139	1139	0	1198	1197	1	1203	1203	0	1203	1202	1	1184	1184	0	1202	1201	1	1198	1198	0

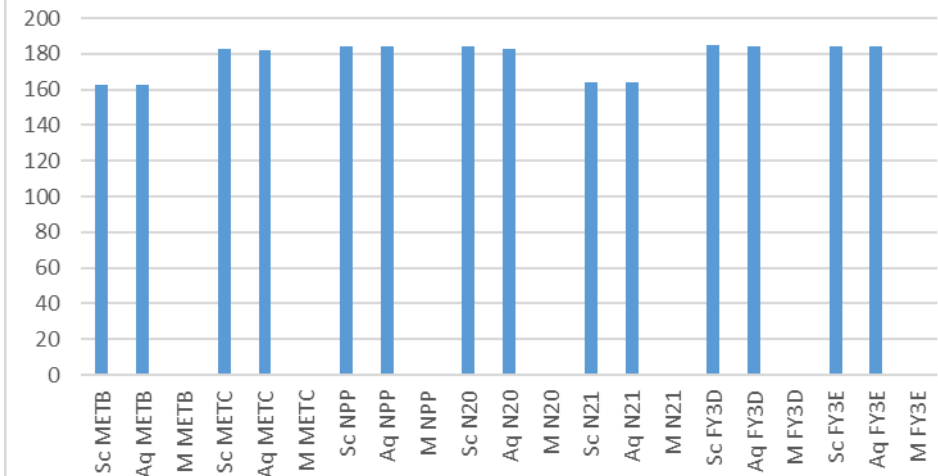
Athens; Greece



Scheduled (Sc)
Acquired (Aq)
Missing (M)

July 2025

Lannion; France



(Max 1 of 1) < 1 > (112 events)							
Timestamp	Facility	Host	Process	Sev.	KB	Message	
25.260.09.52.06.236	RDS_EARS_OPE	mehm01	web-report	INFO		sys.info.log OPE ATHENS_HRPT_Stations: Web-report generation and distribution. MEOS_INFO 2025-09-17T09:50 [info] [MEOS.OUTPUT.FILE] NOAA21:14785[2pcOak2Y3] - Wrote /out/meos/report/hrm/web_report_NOAA21_14785_mehm01_ash.html to ears@ids	
25.260.09.52.06.220	RDS_EARS_OPE	mehm01	Instrument_Packet_Processing	INFO		sys.info.log OPE ATHENS_HRPT_Stations: processing of instrument packet. MEOS_INFO Sep 17 09:50 reconstruct[2682448]: Sending trigger complete with parameters (success=>true){session=>NOAA21:14785[2pcOak2Y3]}	
25.260.09.52.06.217	RDS_EARS_OPE	mehm01	Front_End_Processing	INFO		sys.info.log OPE ATHENS_HRPT_Stations: level 0 processing. MEOS_INFO Sep 17 09:50 lep11[2682436]: Sending trigger complete with parameters (success=>true){session=>NOAA21:14785[2pcOak2Y3]}	
25.260.09.52.06.215	RDS_EARS_OPE	mehm01	Demodulation	INFO		sys.info.log OPE ATHENS_HRPT_Stations: satellite signal demodulation. MEOS_INFO Sep 17 09:50 hnd1[2617903]: Sending trigger complete with parameters (success=>true){session=>NOAA21:14785[2pcOak2Y3]}	
25.260.09.48.06.173	RDS_EARS_OPE	mehm01	misc	WARNING		sys.info.log OPE ATHENS_HRPT_Stations: MISC. MEOS_WARNING 2025-09-17T09:48 [warning] [meos-ite-tool] - Missions with old or missing TLEs: AWS-PFM, NOAA18, NOAA19, SARAL, SGA1, SGB1	
25.260.09.48.06.170	RDS_EARS_OPE	mehm01	file	INFO		sys.info.log OPE ATHENS_HRPT_Stations: MEOS FTP pull of TLE from RTS. MEOS_INFO Sep 17 09:46 mc-middleware[1329672]: http_get_files: Fetched meos.file from localhost (1671 bytes)	
25.260.09.48.06.170	RDS_EARS_OPE	mehm01	file	INFO		sys.info.log OPE ATHENS_HRPT_Stations: MEOS FTP pull of TLE from RTS. MEOS_INFO 2025-09-17T09:46 [info] [http_get_files] - Fetched meos.file from localhost (1671 bytes)	
25.260.09.48.06.120	RDS_EARS_OPE	mehm01	Quicklook_Images_Production	INFO		sys.info.log OPE ATHENS_HRPT_Stations: generation of browse image. MEOS_INFO 2025-09-17T09:44 [info] [...CESSING QUICKLOOK_CH1.QLP_1] NOAA21:14785[2pcOak2Y3] - Opened server socket	
25.260.09.44.06.070	RDS_EARS_OPE	mehm01	orbital	INFO		sys.info.log OPE ATHENS_HRPT_Stations: Antenna Housekeeping Telemetry. MEOS_INFO 2025-09-17T09:43 [info] [MEOS.ANTENNA.ORBITAL] NOAA21:14785[2pcOak2Y3] - Start tracking NOAA21	
25.260.09.18.05.863	RDS_EARS_OPE	mehm01	misc	WARNING		sys.info.log OPE ATHENS_HRPT_Stations: MISC. MEOS_WARNING 2025-09-17T09:16 [warning] [meos-ite-tool] - Missions with old or missing TLEs: AWS-PFM, NOAA18, NOAA19, SARAL, SGA1, SGB1	
25.260.09.18.05.861	RDS_EARS_OPE	mehm01	file	INFO		sys.info.log OPE ATHENS_HRPT_Stations: MEOS FTP pull of TLE from RTS. MEOS_INFO Sep 17 09:16 mc-middleware[1329672]: http_get_files: Fetched meos.file from localhost (1671 bytes)	
25.260.09.18.05.861	RDS_EARS_OPE	mehm01	file	INFO		sys.info.log OPE ATHENS_HRPT_Stations: MEOS FTP pull of TLE from RTS. MEOS_INFO 2025-09-17T09:16 [info] [http_get_files] - Fetched meos.file from localhost (1671 bytes)	
25.260.08.48.05.563	RDS_EARS_OPE	mehm01	misc	WARNING		sys.info.log OPE ATHENS_HRPT_Stations: MISC. MEOS_WARNING 2025-09-17T08:46 [warning] [meos-ite-tool] - Missions with old or missing TLEs: AWS-PFM, NOAA18, NOAA19, SARAL, SGA1, SGB1	
25.260.08.48.05.562	RDS_EARS_OPE	mehm01	file	INFO		sys.info.log OPE ATHENS_HRPT_Stations: MEOS FTP pull of TLE from RTS. MEOS_INFO Sep 17 08:46 mc-middleware[1329672]: http_get_files: Fetched meos.file from localhost (1671 bytes)	
25.260.08.48.05.561	RDS_EARS_OPE	mehm01	file	INFO		sys.info.log OPE ATHENS_HRPT_Stations: MEOS FTP pull of TLE from RTS. MEOS_INFO 2025-09-17T08:46 [info] [http_get_files] - Fetched meos.file from localhost (1671 bytes)	
25.260.08.42.05.481	RDS_EARS_OPE	mehm01	web-report	INFO		sys.info.log OPE ATHENS_HRPT_Stations: Web-report generation and distribution. MEOS_INFO 2025-09-17T08:41 [info] [MEOS.OUTPUT.FILE] AWS-PFM:5911[1pcOak2Y3] - Wrote /out/meos/report/hrm/web_report_AWS-PFM_5911_mehm01_ash.html to ears@ids	
25.260.08.42.05.464	RDS_EARS_OPE	mehm01	Instrument_Packet_Processing	INFO		sys.info.log OPE ATHENS_HRPT_Stations: processing of instrument packet. MEOS_INFO Sep 17 08:40 reconstruct[2608893]: Sending trigger complete with parameters (success=>true){session=>AWS-PFM:5911[1pcOak2Y3]}	
25.260.08.42.05.463	RDS_EARS_OPE	mehm01	Front_End_Processing	INFO		sys.info.log OPE ATHENS_HRPT_Stations: level 0 processing. MEOS_INFO Sep 17 08:40 lep11[2608888]: Sending trigger complete with parameters (success=>true){session=>AWS-PFM:5911[1pcOak2Y3]}	
25.260.08.42.05.460	RDS_EARS_OPE	mehm01	Demodulation	INFO		sys.info.log OPE ATHENS_HRPT_Stations: satellite signal demodulation. MEOS_INFO Sep 17 08:40 hnd1[2568498]: Sending trigger complete with parameters (success=>true){session=>AWS-PFM:5911[1pcOak2Y3]}	
25.260.08.32.05.335	RDS_EARS_OPE	mehm01	Quicklook_Images_Production	INFO		sys.info.log OPE ATHENS_HRPT_Stations: generation of browse image. MEOS_INFO 2025-09-17T08:31 [info] [...CESSING QUICKLOOK_CH1.QLP_1] AWS-PFM:5911[1pcOak2Y3] - Opened server socket	
25.260.08.32.05.330	RDS_EARS_OPE	mehm01	orbital	INFO		sys.info.log OPE ATHENS_HRPT_Stations: Antenna Housekeeping Telemetry. MEOS_INFO 2025-09-17T08:31 [info] [MEOS.ANTENNA.ORBITAL] AWS-PFM:5911[1pcOak2Y3] - Start tracking AWS-PFM	
25.260.08.18.05.203	RDS_EARS_OPE	mehm01	misc	WARNING		sys.info.log OPE ATHENS_HRPT_Stations: MISC. MEOS_WARNING 2025-09-17T08:16 [warning] [meos-ite-tool] - Missions with old or missing TLEs: AWS-PFM, NOAA18, NOAA19, SARAL, SGA1, SGB1	
25.260.08.18.05.202	RDS_EARS_OPE	mehm01	file	INFO		sys.info.log OPE ATHENS_HRPT_Stations: MEOS FTP pull of TLE from RTS. MEOS_INFO Sep 17 08:16 mc-middleware[1329672]: http_get_files: Fetched meos.file from localhost (1671 bytes)	
25.260.08.18.05.202	RDS_EARS_OPE	mehm01	file	INFO		sys.info.log OPE ATHENS_HRPT_Stations: MEOS FTP pull of TLE from RTS. MEOS_INFO 2025-09-17T08:16 [info] [http_get_files] - Fetched meos.file from localhost (1671 bytes)	
25.260.08.16.05.151	RDS_EARS_OPE	mehm01	web-report	INFO		sys.info.log OPE ATHENS_HRPT_Stations: Web-report generation and distribution. MEOS_INFO 2025-09-17T08:15 [info] [MEOS.OUTPUT.FILE] SGA1:502[1scOak2Y3] - Wrote /out/meos/report/hrm/web_report_SGA1_502_mehm01_ash.html to ears@ids	
25.260.08.16.05.139	RDS_EARS_OPE	mehm01	Front_End_Processing	INFO		sys.info.log OPE ATHENS_HRPT_Stations: level 0 processing. MEOS_INFO Sep 17 08:14 lep11[2575199]: Sending trigger complete with parameters (success=>true){session=>SGA1:502[1scOak2Y3]}	
25.260.08.16.05.137	RDS_EARS_OPE	mehm01	Demodulation	INFO		sys.info.log OPE ATHENS_HRPT_Stations: satellite signal demodulation. MEOS_INFO Sep 17 08:14 hnd1[2434294]: Sending trigger complete with parameters (success=>true){session=>SGA1:502[1scOak2Y3]}	
25.260.08.02.05.024	RDS_EARS_OPE	mehm01	misc	ALARM		sys.info.log OPE ATHENS_HRPT_Stations: MISC. MEOS_ALARM 2025-09-17T08:01 [error] [MEOS.OUTPUT.SLE] SGA1:502[1scOak2Y3] - Command "run" failed:	
25.260.08.02.05.024	RDS_EARS_OPE	mehm01	misc	ALARM		sys.info.log OPE ATHENS_HRPT_Stations: MISC. MEOS_ALARM 2025-09-17T08:01 [error] [MEOS.OUTPUT.SLE] SGA1:502[1scOak2Y3] - AntennaFormat and AnnotationType mismatch	
25.260.08.02.04.954	RDS_EARS_OPE	mehm01	orbital	INFO		sys.info.log OPE ATHENS_HRPT_Stations: Antenna Housekeeping Telemetry. MEOS_INFO 2025-09-17T08:00 [info] [MEOS.ANTENNA.ORBITAL] SGA1:502[1scOak2Y3] - Start tracking SGA1	
25.260.07.48.04.763	RDS_EARS_OPE	mehm01	misc	WARNING		sys.info.log OPE ATHENS_HRPT_Stations: MISC. MEOS_WARNING 2025-09-17T07:45 [warning] [meos-ite-tool] - Missions with old or missing TLEs: AWS-PFM, NOAA18, NOAA19, SARAL, SGA1, SGB1	
25.260.07.48.04.761	RDS_EARS_OPE	mehm01	file	INFO		sys.info.log OPE ATHENS_HRPT_Stations: MEOS FTP pull of TLE from RTS. MEOS_INFO Sep 17 07:45 mc-middleware[1329672]: http_get_files: Fetched meos.file from localhost (1671 bytes)	
25.260.07.46.04.761	RDS_EARS_OPE	mehm01	file	INFO		sys.info.log OPE ATHENS_HRPT_Stations: MEOS FTP pull of TLE from RTS. MEOS_INFO 2025-09-17T07:45 [info] [http_get_files] - Fetched meos.file from localhost (1671 bytes)	
25.260.07.32.04.606	RDS_EARS_OPE	mehm01	misc	WARNING		sys.info.log OPE ATHENS_HRPT_Stations: MISC. MEOS_WARNING 2025-09-17T07:30 [warning] [meos-ite-tool] - Missions with old or missing TLEs: AWS-PFM, NOAA18, NOAA19, SARAL, SGA1, SGB1	
25.260.07.32.04.601	RDS_EARS_OPE	mehm01	file	INFO		sys.info.log OPE ATHENS_HRPT_Stations: MEOS FTP pull of TLE from RTS. MEOS_INFO Sep 17 07:30 mc-middleware[1329672]: http_get_files: Fetched meos.file from localhost (1671 bytes)	
25.260.07.32.04.601	RDS_EARS_OPE	mehm01	file	INFO		sys.info.log OPE ATHENS_HRPT_Stations: MEOS FTP pull of TLE from RTS. MEOS_INFO 2025-09-17T07:30 [info] [http_get_files] - Fetched meos.file from localhost (1671 bytes)	
25.260.07.32.04.599	RDS_EARS_OPE	mehm01	schedule	INFO		sys.info.log OPE ATHENS_HRPT_Stations: EARS SMART schedules. MEOS_INFO Sep 17 07:30 inbox-server[901798]: Wrote confirmation file to /var/spool/meos/polar_schedule/pre-status/2025-09-17-07-30-52-acquisition-schedule-confirmation-ath-orb-1.xml	
25.260.07.28.04.512	RDS_EARS_OPE	mehm01	misc	WARNING		sys.info.log OPE ATHENS_HRPT_Stations: MISC. MEOS_WARNING 2025-09-17T07:27 [warning] [meos-ite-tool] - Missions with old or missing TLEs: AWS-PFM, NOAA18, NOAA19, SARAL, SGA1, SGB1	
25.260.07.28.04.508	RDS_EARS_OPE	mehm01	file	INFO		sys.info.log OPE ATHENS_HRPT_Stations: MEOS FTP pull of TLE from RTS. MEOS_INFO Sep 17 07:27 mc-middleware[1329672]: http_get_files: Fetched meos.file from localhost (1671 bytes)	
25.260.07.28.04.508	RDS_EARS_OPE	mehm01	file	INFO		sys.info.log OPE ATHENS_HRPT_Stations: MEOS FTP pull of TLE from RTS. MEOS_INFO 2025-09-17T07:27 [info] [http_get_files] - Fetched meos.file from localhost (1671 bytes)	
25.260.07.28.04.508	RDS_EARS_OPE	mehm01	schedule	INFO		sys.info.log OPE ATHENS_HRPT_Stations: EARS SMART schedules. MEOS_INFO Sep 17 07:27 inbox-server[901798]: Wrote confirmation file to /var/spool/meos/polar_schedule/pre-status/2025-09-17-07-27-43-acquisition-schedule-confirmation-ath-orb-1.xml	
25.260.07.16.04.201	RDS_EARS_OPE	mehm01	misc	WARNING		sys.info.log OPE ATHENS_HRPT_Stations: MISC. MEOS_WARNING 2025-09-17T07:15 [warning] [meos-ite-tool] - Missions with old or missing TLEs: AWS-PFM, NOAA18, NOAA19, SARAL, SGA1, SGB1	
25.260.07.16.04.199	RDS_EARS_OPE	mehm01	file	INFO		sys.info.log OPE ATHENS_HRPT_Stations: MEOS FTP pull of TLE from RTS. MEOS_INFO Sep 17 07:15 mc-middleware[1329672]: http_get_files: Fetched meos.file from localhost (1671 bytes)	
25.260.07.16.04.199	RDS_EARS_OPE	mehm01	file	INFO		sys.info.log OPE ATHENS_HRPT_Stations: MEOS FTP pull of TLE from RTS. MEOS_INFO 2025-09-17T07:15 [info] [http_get_files] - Fetched meos.file from localhost (1671 bytes)	
25.260.06.46.03.866	RDS_EARS_OPE	mehm01	misc	WARNING		sys.info.log OPE ATHENS_HRPT_Stations: MISC. MEOS_WARNING 2025-09-17T06:45 [warning] [meos-ite-tool] - Missions with old or missing TLEs: AWS-PFM, NOAA18, NOAA19, SARAL, SGA1, SGB1	
25.260.06.46.03.864	RDS_EARS_OPE	mehm01	file	INFO		sys.info.log OPE ATHENS_HRPT_Stations: MEOS FTP pull of TLE from RTS. MEOS_INFO Sep 17 06:45 mc-middleware[1329672]: http_get_files: Fetched meos.file from localhost (1671 bytes)	
25.260.06.46.03.864	RDS_EARS_OPE	mehm01	file	INFO		sys.info.log OPE ATHENS_HRPT_Stations: MEOS FTP pull of TLE from RTS. MEOS_INFO 2025-09-17T06:45 [info] [http_get_files] - Fetched meos.file from localhost (1671 bytes)	



Antenna

Orbital AEHP

Connected **OK**
Mode Switch **RUN**
Time to LOS **258 s**

FEED

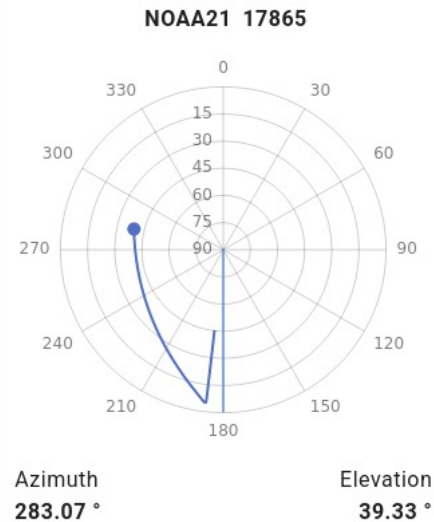
LOCK X **PURGE**
Frequency **7812 MHz**

AZIMUTH ELEVATION

CONTACTOR
BRAKE **BRAKE**
DRIVE **DRIVE**
OVERSPEED **OVERSPEED**
LOW LIMIT **LOW LIMIT**
HIGH LIMIT **HIGH LIMIT**
PRE LIMIT

ACU

ACU +24V **FEED +24V**
+3.3V **HEATER**
CONTROL **STOW PINS**
MODE WIRING **LIMIT WIRING**
Time **04/22/2026, 12:00:42 UTC**



ENVIRONMENTAL STATUS

	Temp	Humidity	Dew P.	Pressure
Cab	33.1 °C	4.4 %	-13 °C	0.12 PSI
Feed	34.3 °C	20.1 %	8.2 °C	N/A

Manual Commanding

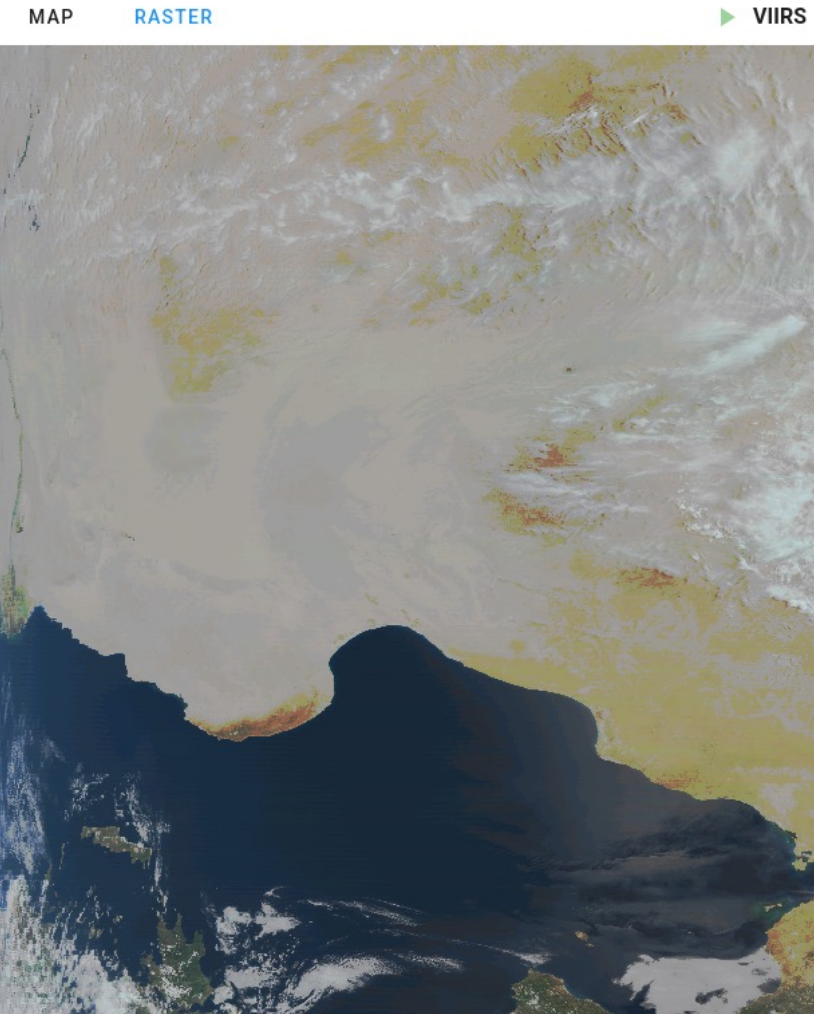
CONNECT **DISCONNECT**
PARK **SET PARK**
TRACK SAT **TRACK SUN**
GOTO

Channel 1

METOP-C 38696	AOS 17:57:32 LOS 18:05:48	Starts in 5h 56m	
METOP-B 70538	AOS 17:25:32 LOS 17:33:48	Starts in 5h 24m	
FY3E 24870	AOS 16:13:44 LOS 16:25:24	Starts in 4h 12m	
FY3E 24869	AOS 14:34:19 LOS 14:44:45	Starts in 2h 33m	
NOAA21 17865	AOS 11:53:18 LOS 12:05:05	Ends in 4m	
SNR 19.23 dB Frames 1,051,910 FEP 1 Bit rate 25.00 Mbps FEP 2			
I/F	FEP 1	PROC	DIST
IP	FEP 2		

✓ NOAA21	17864	AOS 10:14:03	LOS 10:24:15	
✓ METOP-C	38690	AOS 08:16:42	LOS 08:28:59	
✓ METOP-B	70532	AOS 07:44:41	LOS 07:56:56	
✓ METOP-C	38689	AOS 06:37:07	LOS 06:45:38	

Quicklook



MEOS

mehnm01

OVERVIEWEVENT LOGFILESREPORTS13:00:01 Z

2026-04-22

✓ 38689
06:37:07 9m

METOP-B
✓ 70532
07:44:41 12m

METOP-C
✓ 38690
08:16:42 12m

NOAA21
✓ 17864
10:14:03 10m

NOAA21
✓ 17865
11:53:18 12m

FY3E 24869
ⓘ 14:34:19 10m

FY3E 24870
ⓘ 16:13:44 12m

METOP-B
ⓘ 70538
17:25:32 8m

METOP-C
ⓘ 38696
17:57:32 8m

+ − ⓘ ≡

NOAA21 orbit 17865

1. Session

System hostname	mehnm01
Unique identifier	W2eOaK2Y3
Satellite name	NOAA21
Orbit number	17865
Start time	2026-04-22 11:53:18Z
Stop time	2026-04-22 12:05:05Z
Report creation time	2026-04-22 12:05:14Z
Status	✓ Succeeded

1.1. Scheduling Presets

Name	Value	Stage
Channel 1 Downlink	HRD	Input NOAA 21
Channel 1 IF Connector	from config	Input NOAA 21
Source	DEMOD	Input NOAA 21
RFD	off	Input NOAA 21

Table of Contents

1. Session

1.1. Scheduling Presets

2. Activities

3. Events

4. Scatter and Frequency Videos

4.1. Channel 1

5. Channel 1

5.1. Quality

5.2. Input and Modulation

5.2.1. FEP_1

5.2.2. HRDR

5.3. Filter Settings

5.4. Carrier and Bitsync Loop

5.5. Frame Synchronizer Settings

5.6. PCM and Differential coding

5.7. Viterbi

5.8. Input Level

5.9. Demodulator Lock State

5.10. Signal/Noise Ratio

5.11. Carrier Offset

5.12. Eb/N0

5.13. Phase Loop Error

5.14. FEP Lock State

5.15. Decoder Lock Status

5.16. Reed-Solomon Frames

5.17. Frame Error Rate

6. Common

6.1. Feed Frequency

6.2. Antenna

6.3. CPU Utilization

6.4. Memory Utilization



OP5 Monitoring Tool

ITRS OPS MONITOR

Dashboards

Monitor

Report

Manage

ears

at op5viewer

Find...

List view

Hosts

Services:

Name	Alias	Checks	Status	Actions	Last Checked	Duration	Status Information		
PSWANSP1	Cisco Catalyst 9300 Series Switch					5d 22h 18m 7s	OK - 10.189.128.3 responds to ICMP. Packet 1, rtt 84.486ms	19	19
PSWANSS1	Cisco Catalyst 9300 Series Switch					5d 22h 18m 6s	OK - 10.189.128.4 responds to ICMP. Packet 1, rtt 84.513ms	21	21
athppnope	athppnope					162d 4h 56m 29s	OK - 10.70.51.104 responds to ICMP. Packet 1, rtt 75.423ms	25	25
athppnope-IDRAC	athppnope-IDRAC					162d 4h 55m 40s	OK - 10.70.55.6 responds to ICMP. Packet 1, rtt 78.672ms	3	3
athppnval	athppnval					1d 3h 57m	OK - 10.70.51.105 responds to ICMP. Packet 1, rtt 76.418ms	25	25
athppnval-IDRAC	athppnval-IDRAC					162d 4h 56m 50s	OK - 10.70.55.7 responds to ICMP. Packet 1, rtt 75.716ms	3	3
earsopedba01	earsopedba01					1d 3h 57m 10s	OK - 10.12.94.101 responds to ICMP. Packet 1, rtt 1.646ms	21	21
earsvaldba01	earsvaldba01					1d 3h 57m 14s	OK - 10.12.94.231 responds to ICMP. Packet 1, rtt 1.003ms	21	21
eumppndev	eumppndev					1d 3h 56m 50s	OK - 10.193.0.10 responds to ICMP. Packet 1, rtt 0.999ms	27	27
eumrtsope	eumrtsope					1d 3h 56m 33s	OK - 10.72.0.10 responds to ICMP. Packet 1, rtt 1.319ms	28	28
eumrtsval	eumrtsval					1d 3h 56m 39s	OK - 10.72.0.11 responds to ICMP. Packet 1, rtt 4.778ms	28	28
kanppnope	kanppnope					1d 3h 57m 5s	OK - 10.70.115.104 responds to ICMP. Packet 1, rtt 86.253ms	25	25
kanppnope-IDRAC	kanppnope-IDRAC					56d 12h 29m 25s	OK - 10.70.110.6 responds to ICMP. Packet 1, rtt 85.759ms	3	3
kanppnval	kanppnval					56d 12h 29m 17s	OK - 10.70.115.105 responds to ICMP. Packet 1, rtt 85.577ms	25	25
kanppnval-IDRAC	kanppnval-IDRAC					56d 12h 28m 42s	OK - 10.70.110.7 responds to ICMP. Packet 1, rtt 85.603ms	3	3
lanppnope	lanppnope					29d 8h 30m 42s	OK - 10.70.80.104 responds to ICMP. Packet 1, rtt 34.003ms	25	25
lanppnope-IDRAC	lanppnope-IDRAC					208d 23h 24m 34s	OK - 10.70.85.6 responds to ICMP. Packet 1, rtt 40.008ms	3	3
lanppnval	lanppnval					29d 8h 30m 43s	OK - 10.70.80.105 responds to ICMP. Packet 1, rtt 35.269ms	24	24
lanppnval-IDRAC	lanppnval-IDRAC					209d 27s	OK - 10.70.85.7 responds to ICMP. Packet 1, rtt 34.541ms	3	3
masppnope	masppnope					176d 20h 6m 14s	OK - 10.70.30.104 responds to ICMP. Packet 1, rtt 76.212ms	25	25
masppnope-IDRAC	masppnope-IDRAC					208d 23h 26m 47s	OK - 10.70.35.6 responds to ICMP. Packet 1, rtt 77.320ms	3	3
masppnval	masppnval					175d 22h 44m 24s	OK - 10.70.30.105 responds to ICMP. Packet 1, rtt 76.055ms	25	25
masppnval-IDRAC	masppnval-IDRAC					209d 17s	OK - 10.70.35.7 responds to ICMP. Packet 1, rtt 78.964ms	3	3
mecms01	mecms01					29d 8h 30m 57s	OK - 10.70.80.21 responds to ICMP. Packet 1, rtt 35.114ms	29	29
mecms01-iLO	mecms01-iLO					41d 22h 27m 57s	OK - 10.70.85.11 responds to ICMP. Packet 1, rtt 33.962ms	3	3
mecms02	mecms02					1d 3h 56m 50s	OK - 10.70.80.22 responds to ICMP. Packet 1, rtt 35.378ms	29	29

EARS NG Ground Station Rebalancing Tool dba_user [Help](#) [Log Out](#)

Antennas

Station: ath

Antenna 1: orb1

☐ all ☐ none

metopc
noaa20
fy3e
metopb
noaa21
noaa19
noaa18
fy3d
npp
aws-plm
sga1
sgb1

Antenna 2: orb2

☐ all ☐ none

metopc
noaa20
fy3e
metopb
noaa21
noaa19
noaa18
fy3d
npp
aws-plm
sga1
sgb1

Rebalance **Revert** Revert completed successfully

EARS NG Ground Station Rebalancing Tool dba_user [Help](#) [Log Out](#)

Antennas

Station: ath

Rebalance Revert Revert completed successfully

Antennas

Station: ath

Antenna 1: orb1

☐ all ☐ none

metopc
noaa20
fy3e
metopb
noaa21
noaa19
noaa18
fy3d
npp
aws-plm
sga1
sgb1

Antenna 2: orb2

☐ all ☐ none

metopc
noaa20
fy3e
metopb
noaa21
noaa19
noaa18
fy3d
npp
aws-plm
sga1
sgb1

EARS NG Ground Station Rebalancing Tool dba_user [Help](#) [Log Out](#)

Antennas

Station: ath

Rebalance Revert Revert completed successfully

EARS NG Ground Station Rebalancing Tool dba_user [Help](#) [Log Out](#)

Antennas

Station: ath

Rebalance Revert Revert completed successfully

Antenna 1: orb1

☐ all ☐ none

metopc
noaa20
fy3e
metopb
noaa21
noaa19
noaa18
fy3d
npp
aws-plm
sga1
sgb1

Antenna 2: orb2

☐ all ☐ none

metopc
noaa20
fy3e
metopb
noaa21
noaa19
noaa18
fy3d
npp
aws-plm
sga1
sgb1

Rebalance **Revert** Rebalance completed successfully for [ath]



NWP & NWC SAF Quality Monitoring Pages

www.eumetsat.int



DBNet

Overview

Station Status

AMSU-A

MRS

HRS

IASI

CI-S

ATMS

MWR

MWHS-2

MWTS-2

MWTS-3

Local and Global AMSU-A data intercomparison

Statistics reported for each station overpass (represented by a row in the table) pertain to the differences between local and global brightness temperatures (BTs), timestamps and field of view (FOV) coordinates for the selection of channels listed in the adjacent table.

Brightness temperature difference (BTD) plots present the differences between the local and global BTs (screened for invalid BTDs). Navigational difference plots depict the regional navigated fields of view, superimposed upon the global (screened for invalid coordinates).

The plots for each overpass are available by clicking on the corresponding "Overpass Time" entry in the table. Alternatively, view daily plots for each station (from the last week): [here](#).

Explanation of table statistics and data displayed in plots.

Click here for the differences between data displayed in the plots and used to calculate the statistics.

Click here for information on how the different statistical measures are defined and calculated.

Click here to see the thresholds used to generate warnings for overpasses.

How to use the table

Sort fields by clicking on the desired column heading; filter using the "search" bar.

Plots associated with each overpass can be viewed by clicking on the "Overpass Time" entries; clicking on each plot will enlarge the image.

Above the plots, there is a link to a text table of BT and BTD statistics for ALL channels for each overpass.

Overpasses which have not met the local-global data consistency thresholds have the relevant statistic highlighted in red.

Use the dropdown menu on the far right to selectively view these overpasses.

Known problems:

- Metop-B AMSU-A channel 15 is broken.
- Metop-B AMSU-A channels 6 and 7 cannot be reliably calibrated so can have local-global mean BTD differences which exceed the threshold.

Channel Number	1	3	6	7	9	12	15
Channel Wavenumber	0.796	1.678	1.805	1.833	1.911	1.911	2.968

Satellite	Station	Day	Overpass Time	Percentage of valid BTs	Percentage of valid global BTs	No. of local overpasses	No. of common overpasses	Mean Timestamp difference/s	Mean Navigational difference/m	Percentage of valid BTDs	Mean BTD	Max BTD	Min BTD	STD BTD	No. of overpasses with timestamp	No. of overpasses with timestamp	No. of overpasses with timestamp	No. of overpasses with timestamp	No. of overpasses with timestamp
Metop-B	ath	Wednesday	2025-09-17 20:18:26.138	94.9 94.9 94.9 94.9 0	100 100 100 100 0	39	39	0.00282	1032	98.2 98.2 98.2 98.2 0	-0.00642 0.00647 -0.0013 -0.00076 -0.00331	-0.24 -0.24 -0.03 -0.02 -0.18	0.01 0.01 0.01 0.01 0.01	0.00921 0.00921 0.00921 0.00921 0.00921	0	0	0	0	0
Metop-C	ath	Wednesday	2025-09-17 17:28:08.143	100 100 100 100 100	100 100 100 100 100	92	92	0.00133	1143	100 100 100 100 100	-0.00718 0.00026 0.00161 -0.00044 0.00009	-0.03 -0.13 -0.01 -0.01 -0.01	0.01 0.01 0.01 0.01 0.01	0.00767 0.00767 0.00767 0.00767 0.00767	0	0	0	0	0
Metop-B	ath	Wednesday	2025-09-17 18:26:42.148	98.9 98.9 98.9 98.9 0	100 100 100 100 0	92	92	0.00198	1182	100 100 100 100 100	-0.00771 0.00161 0.00047 0.00007 0.00227	-0.04 -0.35 -0.01 -0.01 -0.01	0.01 0.01 0.01 0.01 0.01	0.00779 0.00779 0.00779 0.00779 0.00779	0	0	0	0	0
				98.2 98.2 98.2 98.2 0	100 100 100 100 0					100 100 100 100 100	-0.0088 -0.0113 -0.00027 -0.00027 -0.00027	-0.06 -0.06 -0.06 -0.06 -0.06	0.01 0.01 0.01 0.01 0.01	0.00896 0.00896 0.00896 0.00896 0.00896					



This is the NWC/PPS site.
To NWCSAF main site

Home

NWC/PPS Products

NWC/PPS Product Descriptions

Software

About NWC SAF

Contact Us

EARS-NWC Monitoring

Near real-time validation of the NWC SAF/PPS products (cloudmask, clouddtype and CTTH) from the EARS-NWC service is being performed against the NWC SAF/PPS products from the SMHI reference station (direct readout in Norrköping) and displayed here.

Statistics over time

The below plot show the differences between PPS products from EARS-NWC and the PPS products for Direct Readout data from the Norrköping station, for the last 10 day period.

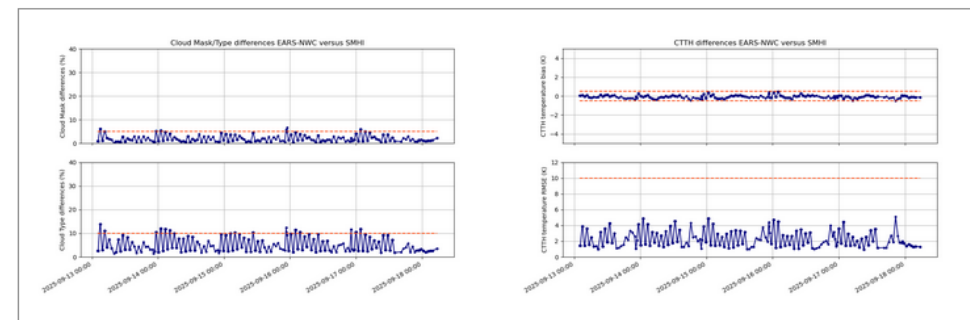


Figure 1: Differences between PPS products from EARS-NWC and SMHI, respectively. The red line is the acceptance level. Left top: Cloud Mask difference, Left bottom: Cloud Type difference, Right top: CTTH bias, Right bottom: CTTH RMSE.

Near-real time plots and statistics

Select a satellite:

Metop B

Select time:

202509151744_202509151758

Metop-B, 2025-09-15 17:44 UTC - 2025-09-15 17:58 UTC

Cloud Mask	Cloud Type	Cloud Top Temperature
2.74%	5.49%	RMSE=2.41K Bias=-0.08K
OK	OK	OK

Table 2: Percentage of Cloud Mask and Type differences and RMSE and bias of the CTTH temperature



Thank you!
Questions are welcome.