

EUMETSAT development and plans since CGMS-46

Presented to CGMS-47 Plenary session, agenda item 4

EUMETSAT currently exploits 11 satellites

METOP-A, -B & -C (98.7° incl.)

LOW EARTH, SUN-SYNCHRONOUS ORBIT

EUMETSAT POLAR SYSTEM (EPS) /
INITIAL JOINT POLAR SYSTEM

SENTINEL-3A & -3B (98.65° incl.)

LOW EARTH, SUN-SYNCHRONOUS ORBIT

COPERNICUS SATELLITES DELIVERING MARINE AND
LAND OBSERVATIONS

METEOSAT-9, -10, -11

GEOSTATIONARY ORBIT

METEOSAT 2ND GENERATION

TWO-SATELLITE SYSTEM

FULL DISC IMAGERY MISSION (15 MINS) (METEOSAT-11 (0°))
RAPID SCAN SERVICE OVER EUROPE (5 MINS) (METEOSAT-10 (9.5° E))
BACKUP SATELLITE AND GAP FILLER FOR RSS (METEOSAT-9 (3.5°E))

JASON-2 & -3 (63° incl.)

LOW EARTH, NON-SYNCHRONOUS ORBIT

OCEAN SURFACE TOPOGRAPHY MISSION, SHARED
WITH CNES/NOAA/EU

JASON-3 IS A COPERNICUS MISSION

METEOSAT-8 (41.5° E)

GEOSTATIONARY ORBIT

METEOSAT 2ND GENERATION
PROVIDING IODC FROM
FEBRUARY 2017 – MID-2022

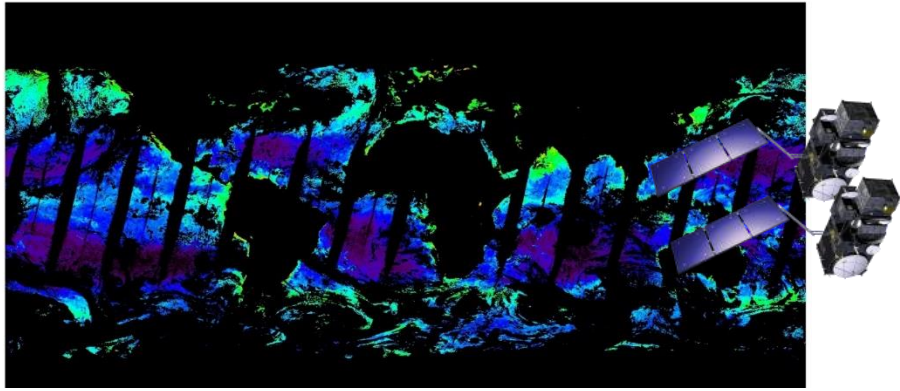
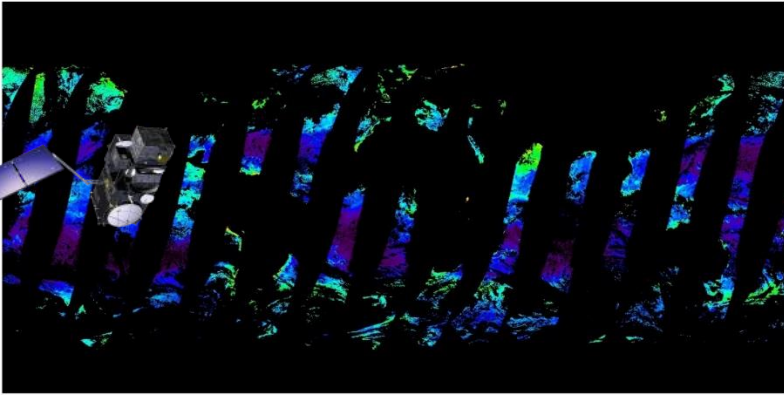


Metop-C launch and commissioning

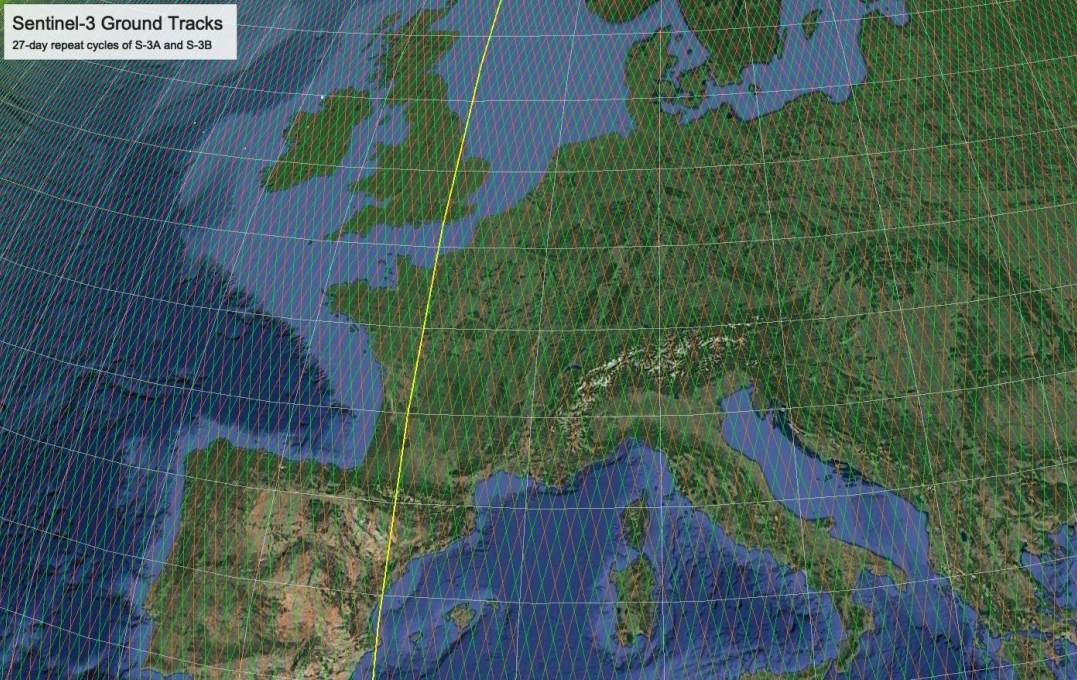
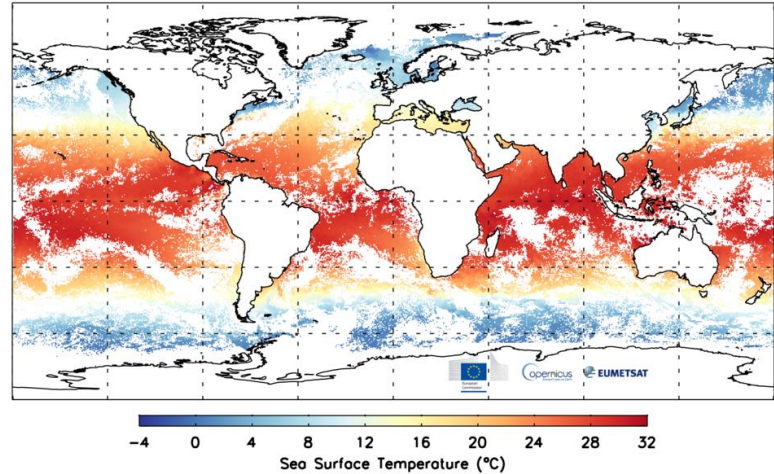


- Flawless launch on 7 November at 01:47 CET
- Satellite-in Orbit Verification (SIOV) with ESA, CNES and NOAA concluded on 30-31 January
- 21 March: Satellite Acceptance, Commissioning and Handover to operations Review
- 15 May: 3-Metop Operations Readiness
- Planned early July:
 - Operational qualification of remaining Metop-C Level 1 products
 - Start of 3-Metop routine operations

Routine operations of dual Sentinel-3 marine mission started



Copernicus Sentinel-3 SLSTR-A and SLSTR-B SST 18-19 Mar 2019



Preparations for Jason-CS/Sentinel-6

SSVT-1/-2 tests with satellite successful, SSVT-3 campaign started



12-15 November 2018

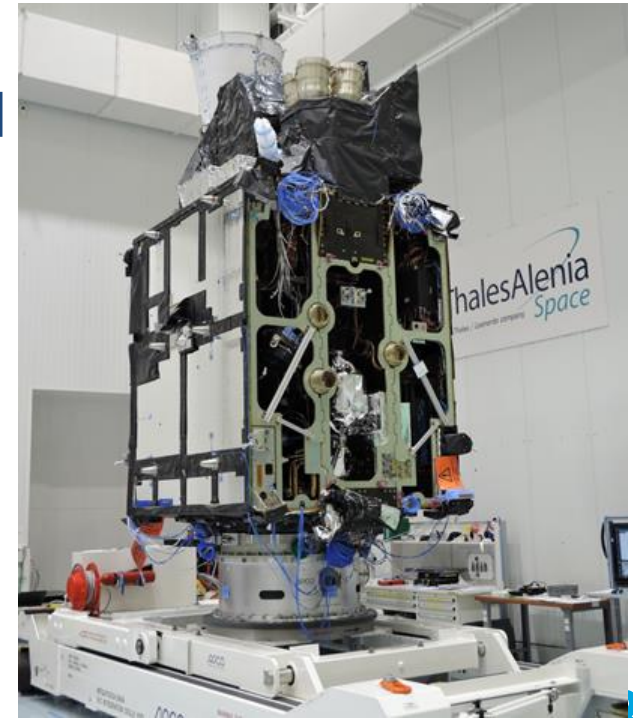


7-8 March 2019

Launch of Jason-CSA manifested for 15 November 2020

Meteosat Third Generation: MTG satellites

- ESA MTG-I satellite CDR concluded on 9 May
 - STM test campaign nearing completion
 - MTG-I1 launch planned in Q4 2021
- MTG-I system CDR in Q4 2019
- MTG-S1 launch planned mid-2023

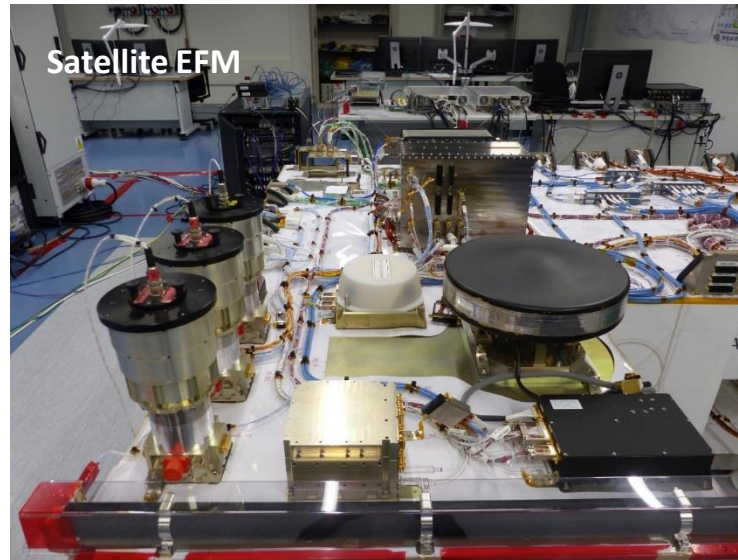


MTG-I Satellite STM

Picture TAS

Eumetsat Polar System - Second Generation – EPS-SG

- Metop-SGA: launch planned end of 2022
 - ESA CDR successful (Nov. 2018), EFM and STM programmes nearing completion



(Photos courtesy ESA)

- Metop-SGB: Launch planned end of 2023
- Ground segment: CDR completed for two main functional chains

Eumetsat Polar System - Second Generation – EPS-SG

All STM Models delivered for integration



IASI-NG STM



METImage STM



Sentinel-5 STM

Eumetsat Polar System - Second Generation – EPS-SG

- Stations and site infrastructure services
 - Ka- & X-Band stations (PDAP) factory-tested, with NOAA support
 - Factory tests of S-Band station (MCO) concluded in May
 - All stations will be shipped to Svalbard & Azores for on-site testing in July-September



Ka-Band and X-Band
Antennas



Svalbard Site Infrastructure

Coordination Group for Meteorological Satellites - CGMS

