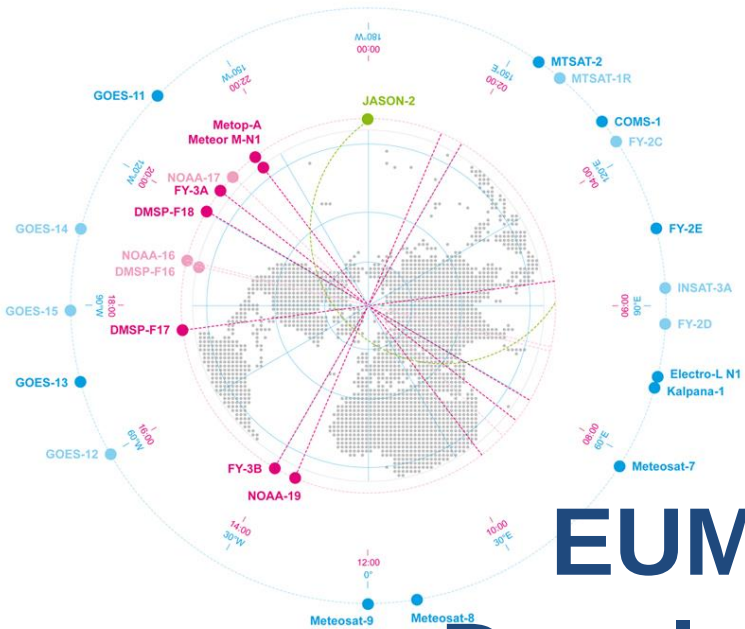
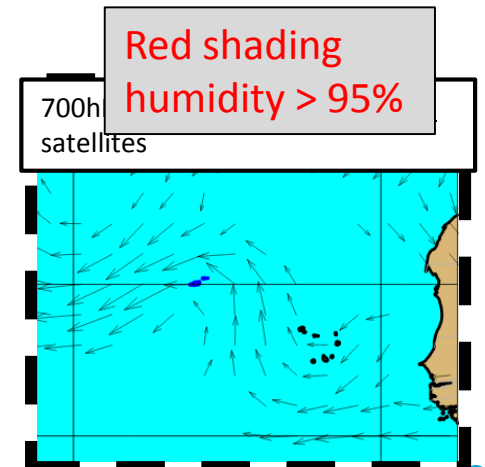
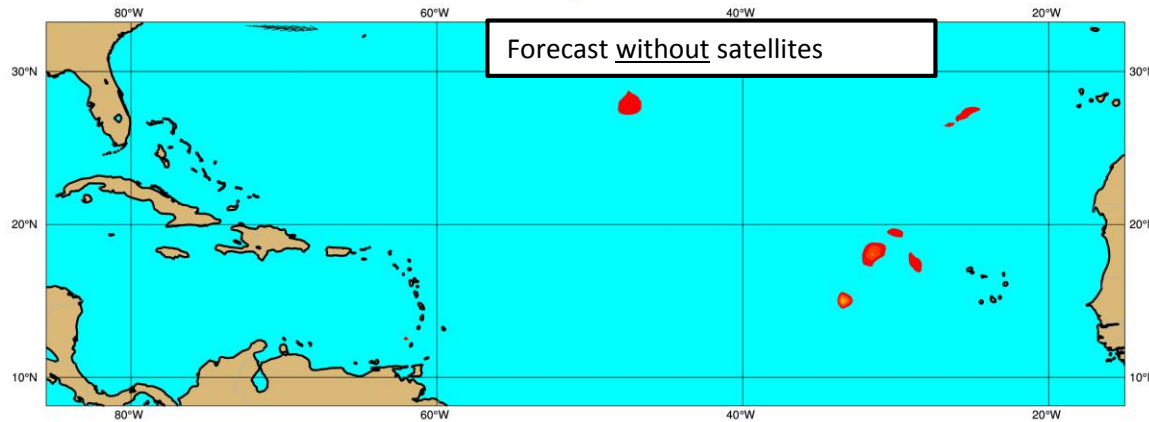
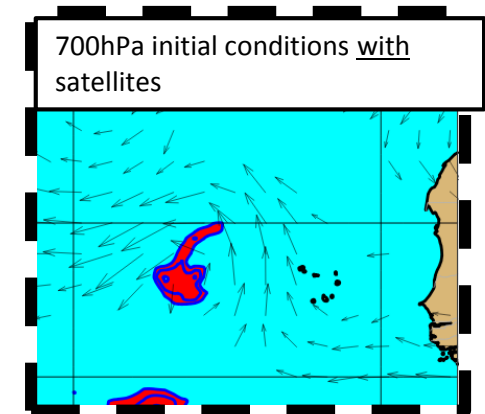
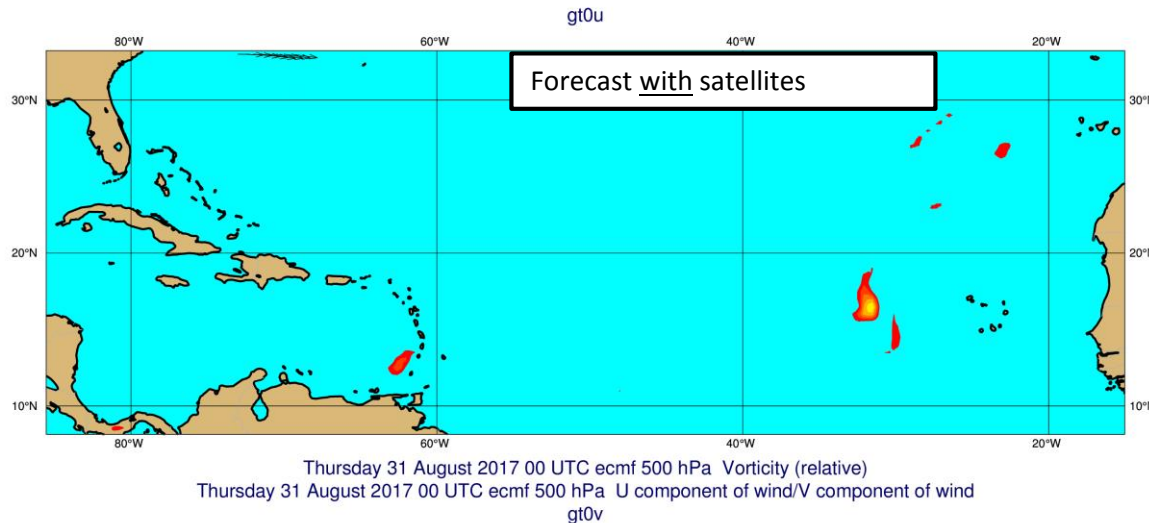




EUMETSAT programmes: Developments since CGMS-45

Presented to CGMS-46 Plenary session, agenda item D.3

Impact on forecasting Irma



Ten satellites in orbit

METOP A-B

(LOW-EARTH, SUN – SYNCHRONOUS ORBIT)

EUMETSAT POLAR SYSTEM

JASON-2 /-3, shared with CNES/NOAA/EU

(LOW-EARTH, 63° INCL. NON SYNCHRONOUS ORBIT)

OCEAN SURFACE TOPOGRAPHY MISSION

Copernicus Sentinel-3A/-3B

(LOW-EARTH, SUN – SYNCHRONOUS ORBIT)

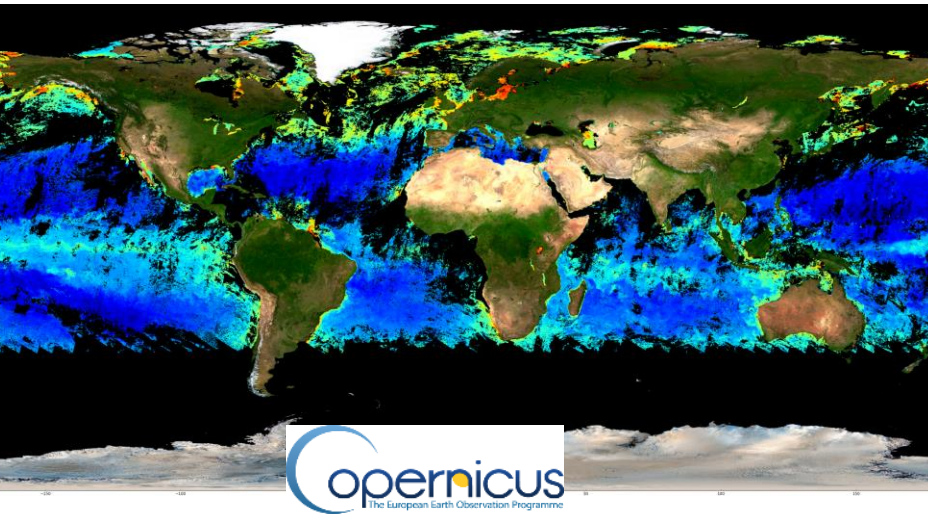
METEOSAT 9-10-11 (GEOSTATIONARY ORBIT)

- METEOSAT-11: FULL DISK IMAGERY MISSION AT 0° (15 MN)
- METEOSAT- 10: RAPID SCAN SERVICE OVER EUROPE AT 9.5°E (5 MN)
- METEOSAT - 9 : HOT BACKUP

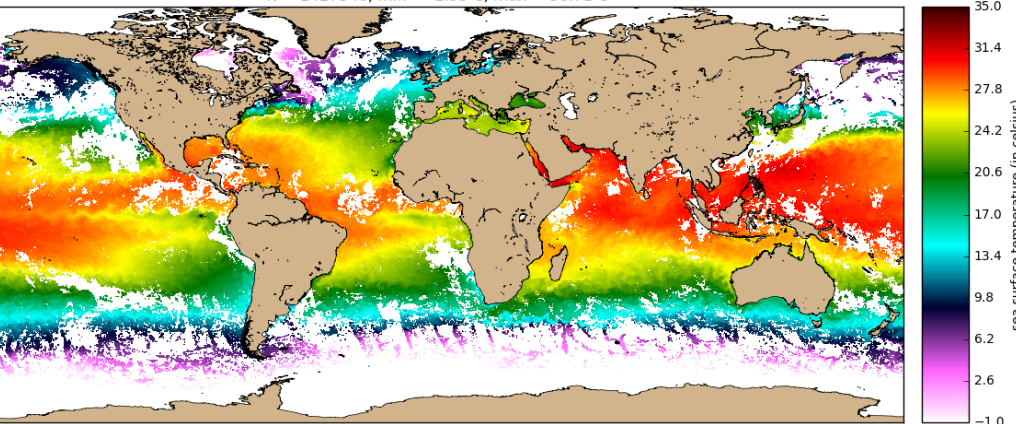
METEOSAT 8

INDIAN OCEAN DATA COVERAGE FROM 41°5 E

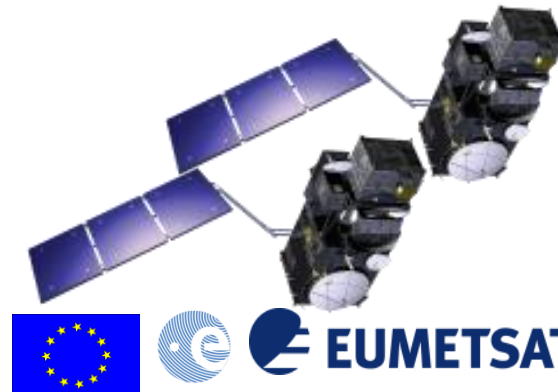
Full deployment of Copernicus Sentinel-3 marine mission after launch of Sentinel-3B



sea surface skin temperature
15-19 Jun 2017 composite - Sentinel-3A / SLSTR WST NR [PB2.16]-
N = 1427346, min = -1.99 C, max = 36.71 C

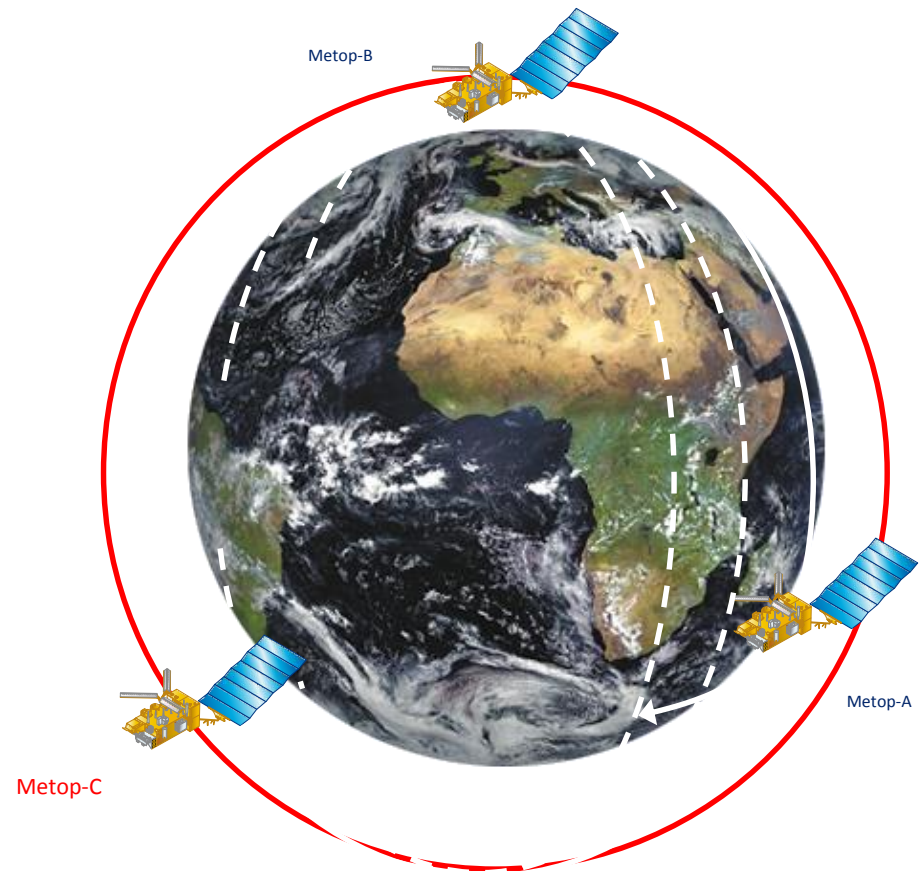


- Two-satellite system
- Sentinel-3A: routine operations since October 2017
- Sentinel-3B launched on 25 April
 - Tandem operations, 30-second separation during commissioning
 - 140° separation after commissioning

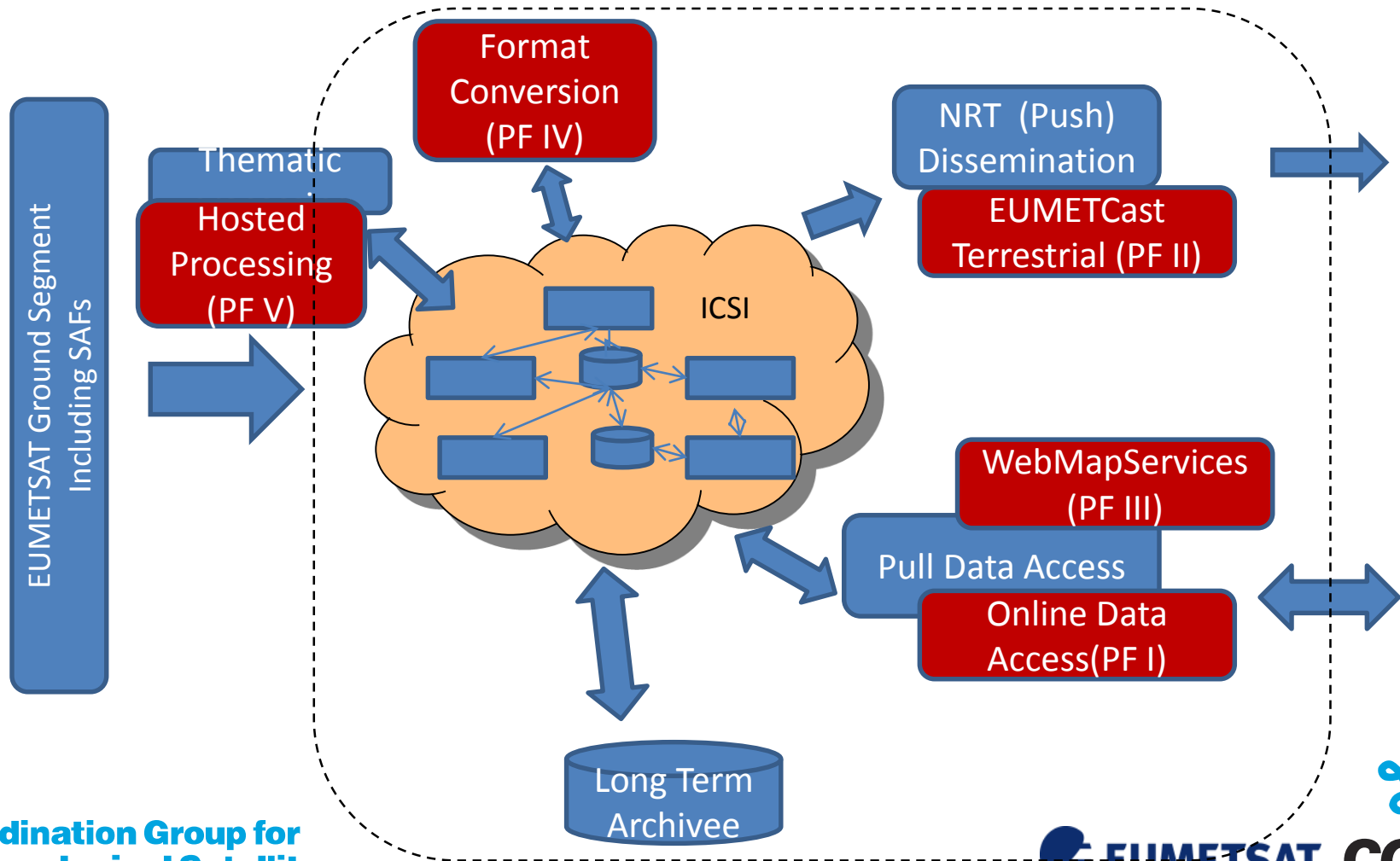


Launch of Metop-C planned in October 2018

After Metop-C launch, 3-Metop operations until 2022



Pathfinder Big Data services: User validation started



MTG: a two-satellite system



- Imagery mission: MTG-I satellites
 - Full disc imagery every 10 mn in 16 spectral bands
 - Lightning Imager (LI)
- Sounding mission: MTG-S satellites
 - IRS hyperspectral IR sounder
 - Temperature, water vapour, profiles every 30 mn (Europe)
 - Atmospheric chemistry:
 - IRS synergy with Copernicus Sentinel-4 instrument
- Operational exploitation: 2021-2042

Development of MTG system



4 MTG ground stations/accepted
(Lario, Fucino, Leuk, Cheia)

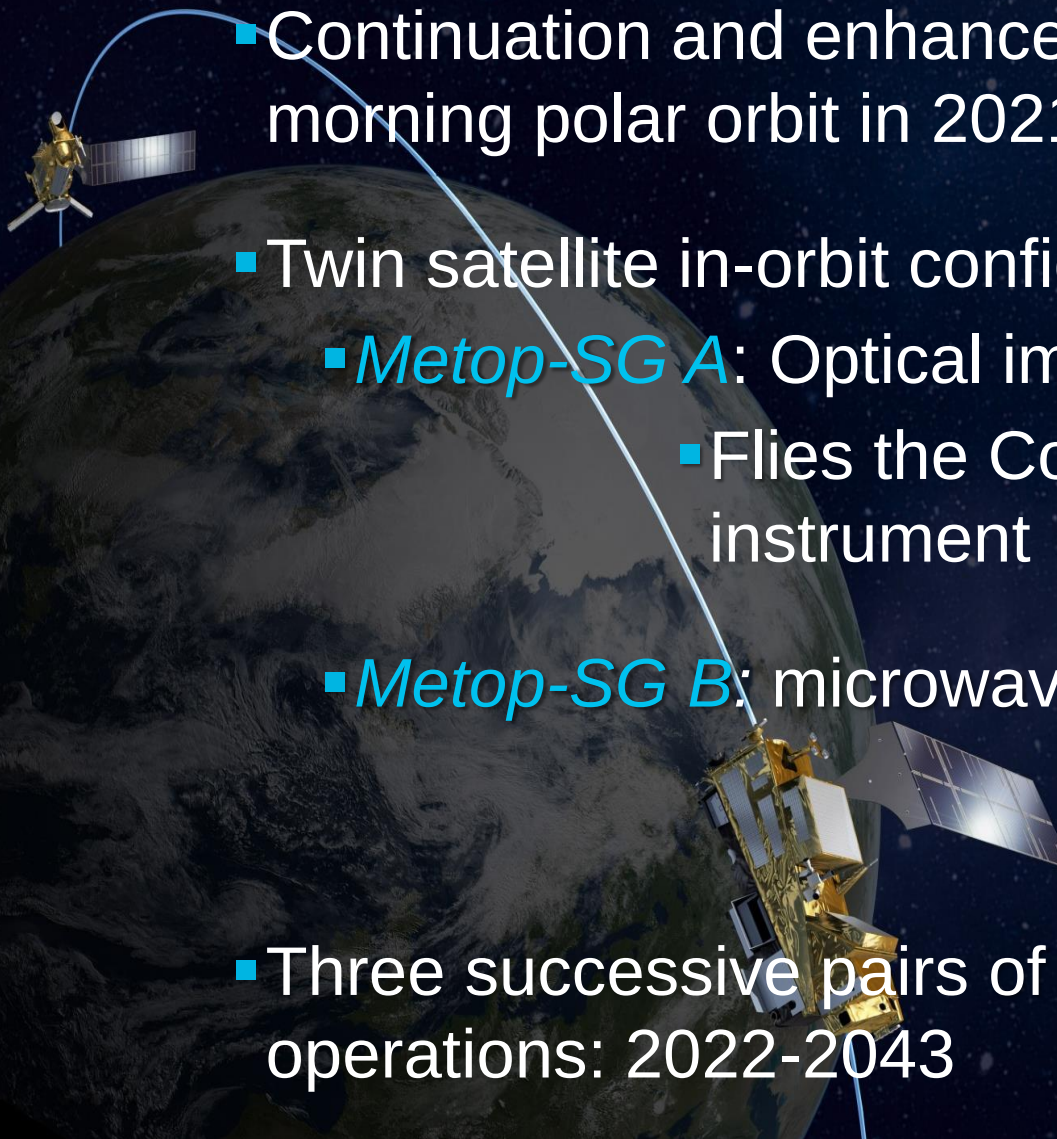


Integration of FCI STM



FCI Structural and
Thermal Model (STM)

EPS Second Generation: a two-satellite system

- 
- Continuation and enhancement of service from mid morning polar orbit in 2021 – 2040
 - Twin satellite in-orbit configuration:
 - *Metop-SG A*: Optical imagery and sounding mission
 - Flies the Copernicus Sentinel-5 instrument
 - *Metop-SG B*: microwave imaging mission
 - Three successive pairs of satellites: 21 years of operations: 2022-2043

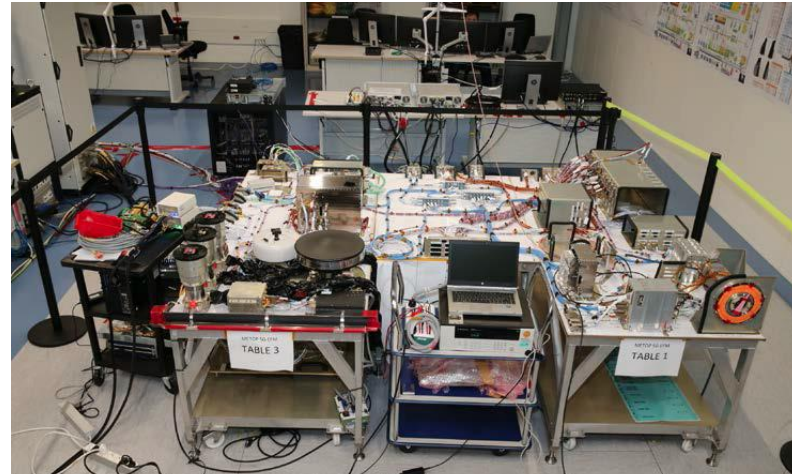
Development of EPS-SG/Metop-SG satellites

Static load tests of main structure completed



**Coordination Group for
Meteorological Satellites**

Electrical Functional Model (EFM)



CGMS

Jason-CS/Sentinel-6

- Space segment critical design completed in December by ESA
- Ground segment under development by EUMETSAT
 - Contract signed for Payload Data Acquisition and Processing chain
 - First version of mission control system delivered
 - First SSVT test with satellite test bench in November
 - Launch of Jason-CSA planned in November 2020



Integration of harness on satellite structure

Greenhouse gases - preparing for possible CO2 Sentinel

