



# EUMETSAT

Monitoring weather and climate from space

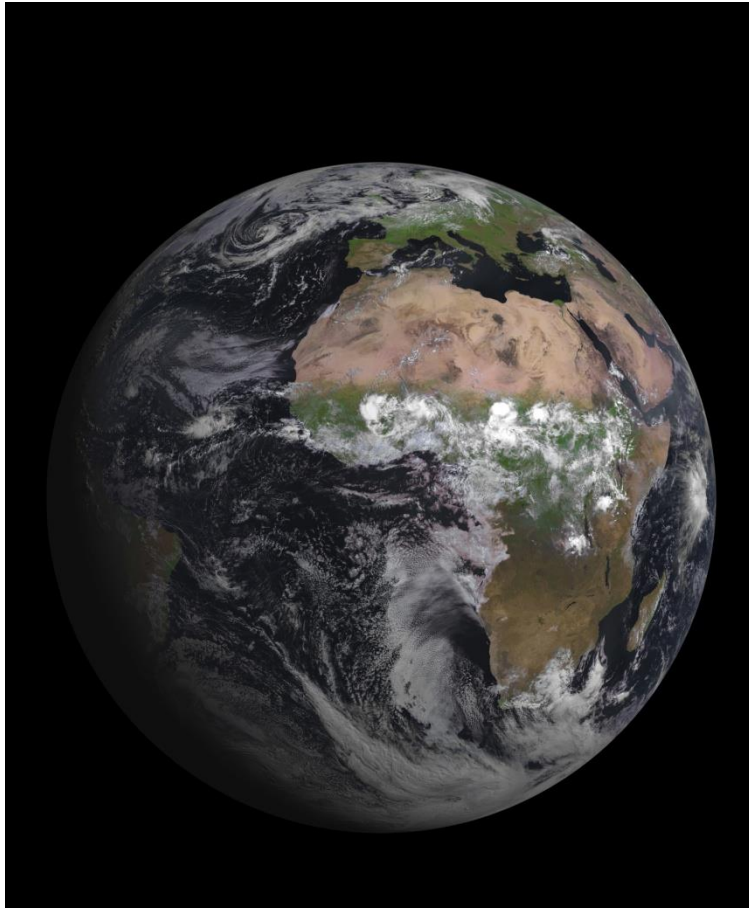


## EUMETSAT report for GHRSSST



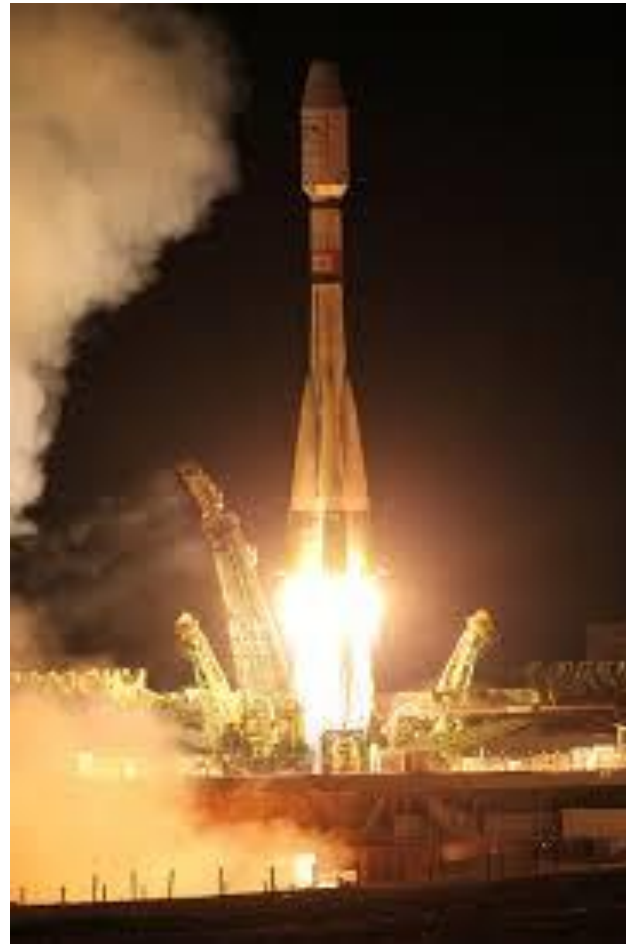
# Introduction: 2012 launches

## MSG-3: 5<sup>th</sup> July 2012



MSG-3 SEVIRI First Image  
7 August 2012 09:45 UTC  
Full Disk Image - RGB (1.6-0.8-0.6)

## Metop-B: 17<sup>th</sup> September 2012



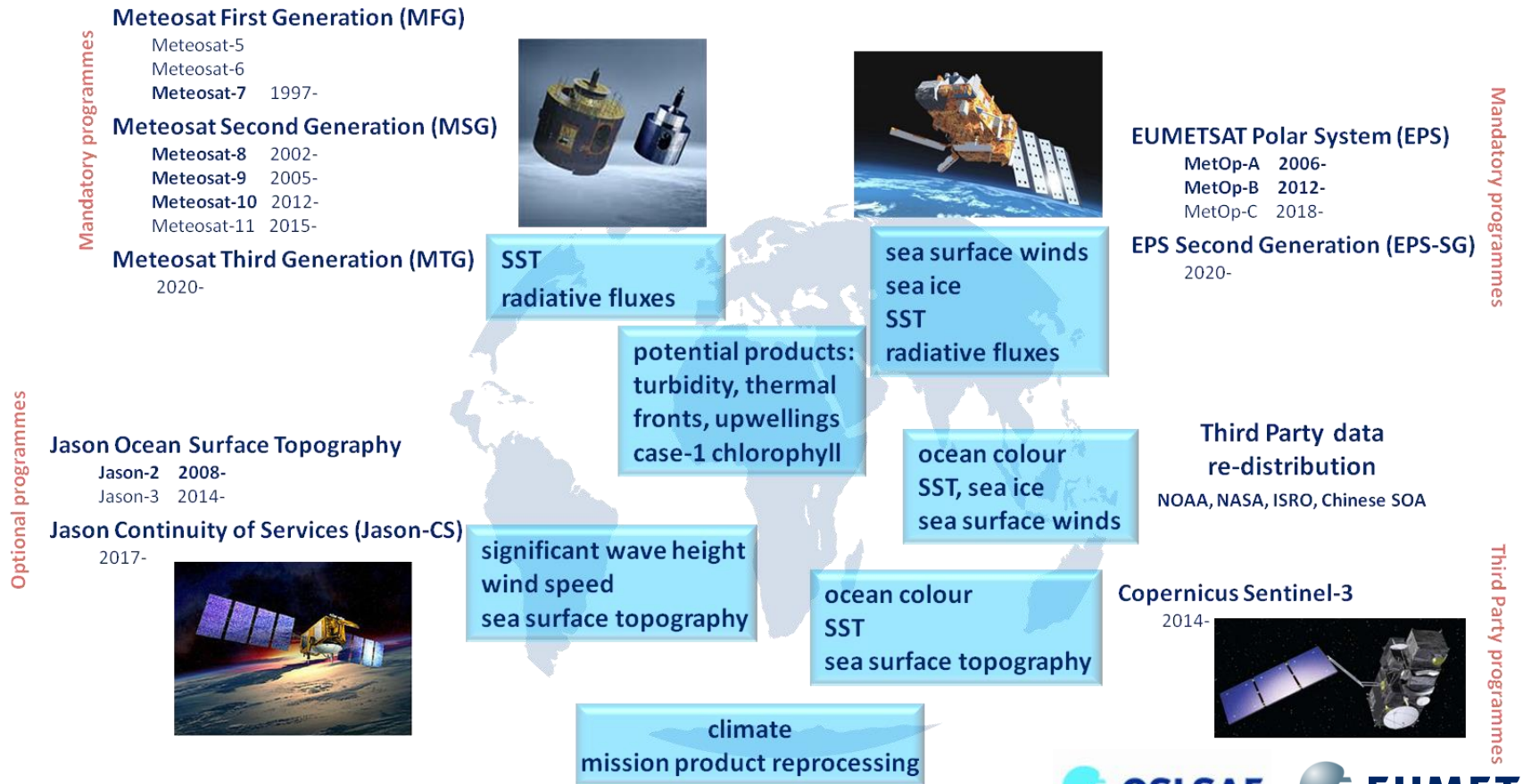
Level 2 products  
produced and  
delivered through  
EUMETSAT OSI-SAF  
[www.osi-saf.org](http://www.osi-saf.org)

L1, L2 IASI SST and  
OSI-SAF L2 products  
from the EUMETSAT  
data centre  
<http://www.eumetsat.int/Home/Main/DataAccess/index.htm?language=en>



# EUMETSAT -space data provider for operational oceanography

- Operational data provider for services, environment, climate and science
- User-driven programmes based on user requirements





# Third party data and reprocessing

- Bilateral with SOA/NSOAS 17-21 June 2013 at EUMETSAT.
- Global VIIRS ACSPO to be distributed via EUMETSAT.

## **Geostationary reprocessing:**

- Work on inter-satellite calibration of complete Meteosat series referenced to IASI employing HIRS measurements is ongoing, first data expected in 2014.
- EUM OSI-SAF will reprocess SEVIRI SST based on already reprocessed SEVIRI L1.5 also using NWC-SAF cloud mask data in full temporal resolution produced at CM SAF.
- Nothing planned for Meteosat First Generation.



# Climate/reprocessing

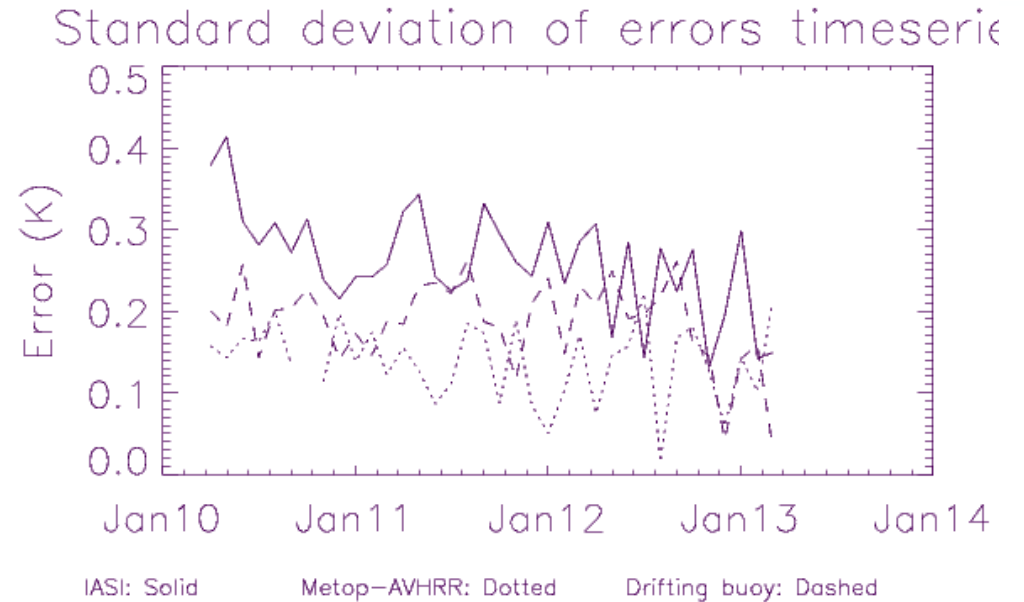
## **Polar Orbit:**

- IASI Level 1c reprocessing now planned for 2014/2015.
- EUM CF will support the ESA CCI SST project in phase 2 to use IASI to constrain drift in AVHRR, by 'predicting' stable AVHRR clear-sky BTs from IASI spectra. EUM will implement a IASI spectra extraction tool to provide match-up data for AVHRR clear sky data.
- Although it could be appended to the IASI L1C reprocessing, needs for reproduction of the IASI SST product were not stated and are currently not part of the EUMETSAT CF plan.
- EUM CM SAF is part of a new SCOPE-CM project together with NOAA and RAL on the creation of an AVHRR L1b FCDR that will start in January 2014.



# IASI sea surface temperature

- IASI L2 products available from April 2008; L2Pcore from March 2010.
- Full IASI L2P products to be available from the OSI-SAF CDOP-2 phase late 2013.
- Current version is IASI L2 PPF v5.

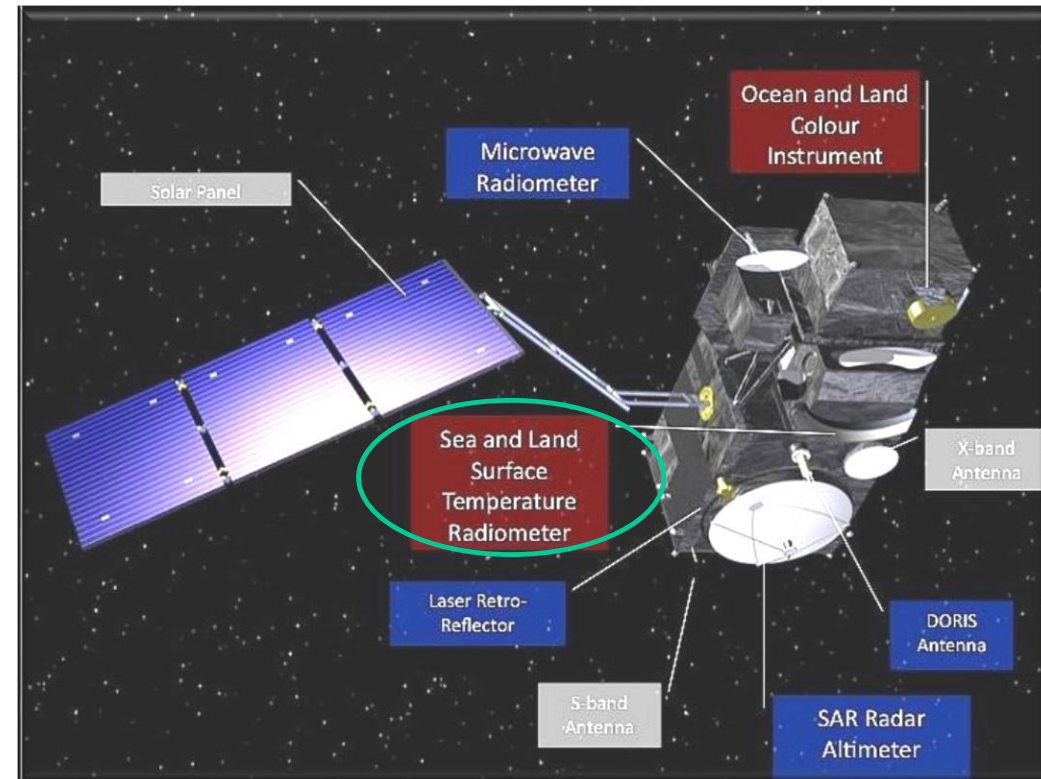


- IASI L2 PPF v6 late 2013 to include new cloud scheme and L2 product quality flagging
- Metop-B IASI SSTs give consistent results to Metop-A



# Sentinel-3 Cal/Val activities

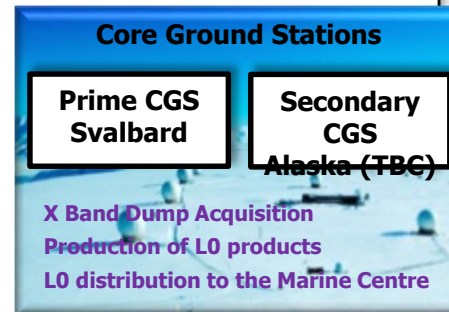
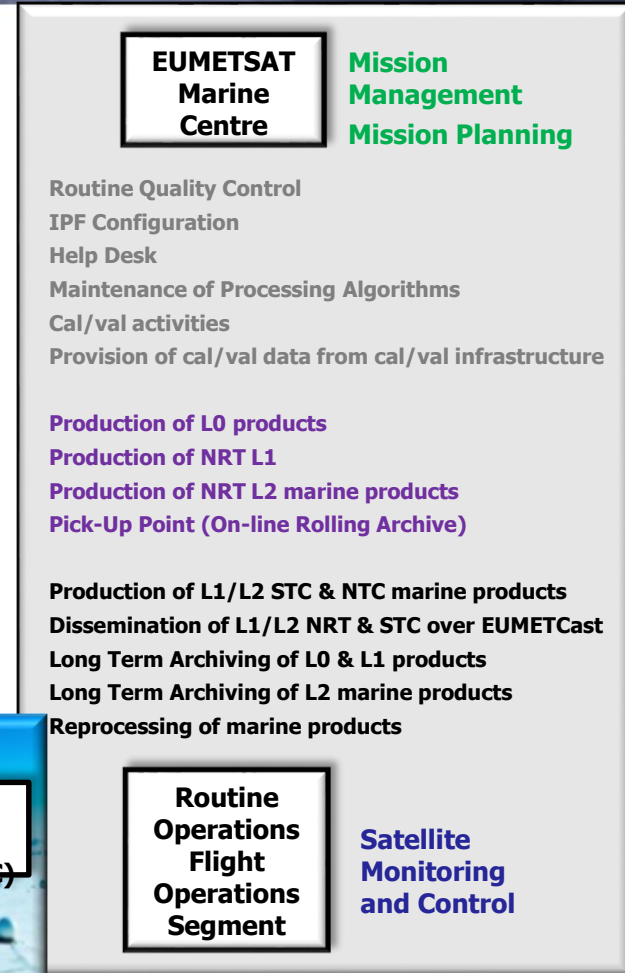
- ESA-EUMETSAT planning and preparation for the mission well in advance of launch
- ESA-EUMETSAT joint Cal/Val Plan
  - benefits from community recommendations
  - Cal/Val plan version 1 ready and reviewed
- ESA-EUMETSAT joint call for Sentinel-3 Validation Team (S3VT)
  - rolling call, no funds from ESA or EUMETSAT
  - 80 total submissions
  - 9 surface temperature submissions
  - First workshop 26-29 November 2013
  - S3VT special session: GHRSSST meeting
  - S3VT subgroups
    - Ocean Colour
    - Temperature
    - Altimetry
    - Land parameters





# EUMETSAT Sentinel-3 Marine Centre

- ESA leads in the development of Sentinel-3 Space and Ground Segments; EUMETSAT supports the development
- Sentinel-3 EUMETSAT mandate
  - monitoring and control of Sentinel-3 platform and payloads
  - acquisition, processing, maintenance and distribution of instrument data and marine products
  - support of the marine user community
- Operations of Payload Data Ground Segment (PDGS)
  - ESA – land services
  - EUMETSAT – marine services
- EUMETSAT Marine Centre
  - the first deployed Sentinel-3 centre







# EUMETSAT conferences

- EUMETSAT Meteorological Satellite Conference, Vienna, Austria, 16-20 September 2013
  - [http://www.eumetsat.int/Home/Main/News/Conferences\\_and\\_Events/index.htm](http://www.eumetsat.int/Home/Main/News/Conferences_and_Events/index.htm)
  - Sessions include “Satellite based observations of the cryosphere”, “Satellite based observations of the oceans”, “Calibration and characterisation”...