RDAC - Satellite Application Facility on Ocean and Sea Ice (OSI SAF)

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EUMETSAT OSI SAF OCEAN AND SEA ICE

GHRSST XXIII – Barcelona

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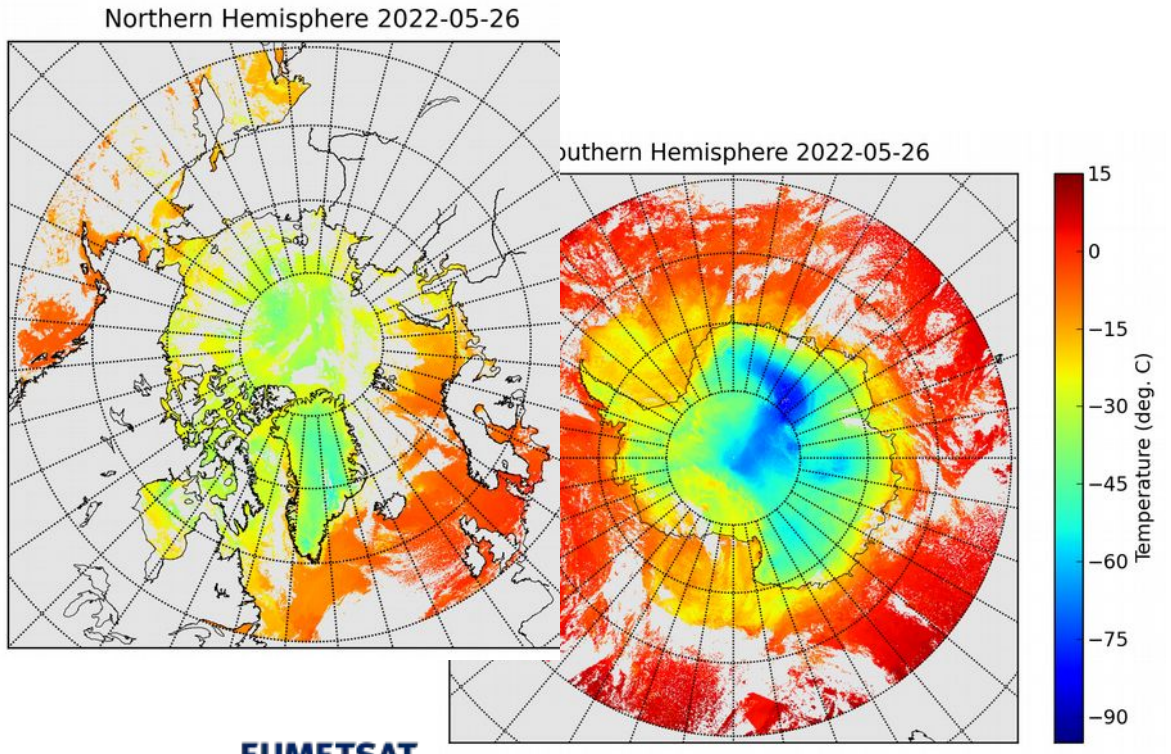
Main activities since G-XXII: Global GEO/ LEO SST

- Continuity of production of Metop-B and C, GOES-E, Meteosat-0° and IO.
- Meteosat-9 is replacing Meteosat-8 over the Indian Ocean on the 23rd of June 2022. The position is slightly different and the final product is slightly shifted in comparison to Meteosat-8:
  - Meteosat-9 longitudinal coverage: 14.5°E to 105.5°E
  - Meteosat-8 longitudinal coverage: 18.5°E to 101.5 °E
- Preparation for MTG-I (launch end of 2022): all final tests have been completed in 2022 and the processing chain is technically ready to process the data. Finalization of the algorithms is in progress.
- Preparation for Metop-SG (launch in 2025): first internal tests have been performed.

Main activities since G-XXII: High latitude SST and IST

- Currently produce SST+IST L2P and L3C products for AVHRR METOP-B and NPP VIIRS



- Latest and future evolution
  - Improve cloud masking over sea and ice using RTTOV simulations
  - Prepare for EUMETSAT EPS-SG METimage instrument
  - Will make new version of AASTI SST+IST CDR in 2023, incl ICDR (will be in C3S)

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OSI SAF – CDOP-4 (2022-2027)

OSI SAF has begun its 4th Continuous Development and Operation Phase. The main evolutions include:

- MTG-I1 SST and fluxes operational production.
- EPS-SG-A SST operational production (including a global L3 product at 0.025°).
- Provide skin SST for all products.
- Development of an OSI SAF sea-ice surface temperature climate indicators, like mean Arctic/Antarctic temperatures, anomalies and trends based on AASTI and the NRT OSI-205 series.
- Development of a high resolution geostationary SST product (1km at nadir, regional).