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

Stéphane SAUX PICART on behalf of OSI SAF
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About OSI SAF

- EUMETSAT SAFs : dedicated centres of excellence for processing satellite data

- OSI SAF : answer to requirements from the meteorological and oceanographic communities, for comprehensive information derived from meteorological satellites at the ocean-atmosphere interface

About OSI SAF

- The OSI SAF develops, processes and distributes, in near real-time, products related to key parameters of the ocean-atmosphere interface.

- The OSI SAF team focuses on

  - Scatterometer winds,

  - Sea Surface Temperature (SST) and sea Ice Surface Temperature (IST),

  - Radiative fluxes : Surface Short wave Irradiance (SSI) and Downward Long wave Irradiance (DLI),

  - Sea ice concentration, edge, type, emissivity, drift.

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OSI SAF SST LEO products

Product ID	Instrument	Coverage
OSI-201-b	METOP-B/AVHRR	L3 global on a 0.05 ∘ grid/12 hourly
OSI-202-b	METOP-B/AVHRR and SNPP/VIIRS	L3 North Atlantic Region/6 hourly
OSI-203	METOP/AVHRR, NOAA/AVHRR	L3 poleward of 50N/12 hourly
OSI-203-a	METOP-B/AVHRR	L3 poleward of 50N/12 hourly (SST + IST)
OSI-203-b	NPP/VIIRS	L3 poleward of 50N/12 hourly (SST + IST)
OSI-204-b	Metop-B/AVHRR	L2P global 1km
OSI-205-a	METOP-B/AVHRR	L2 poleward of 50N/50S (SST + IST)
OSI-205-b	NPP/VIIRS	L2 poleward of 50N/50S (SST + IST)
OSI-208-b	METOP-B/IASI	L2P global 12 to 40km

OSI SAF SST GEO products

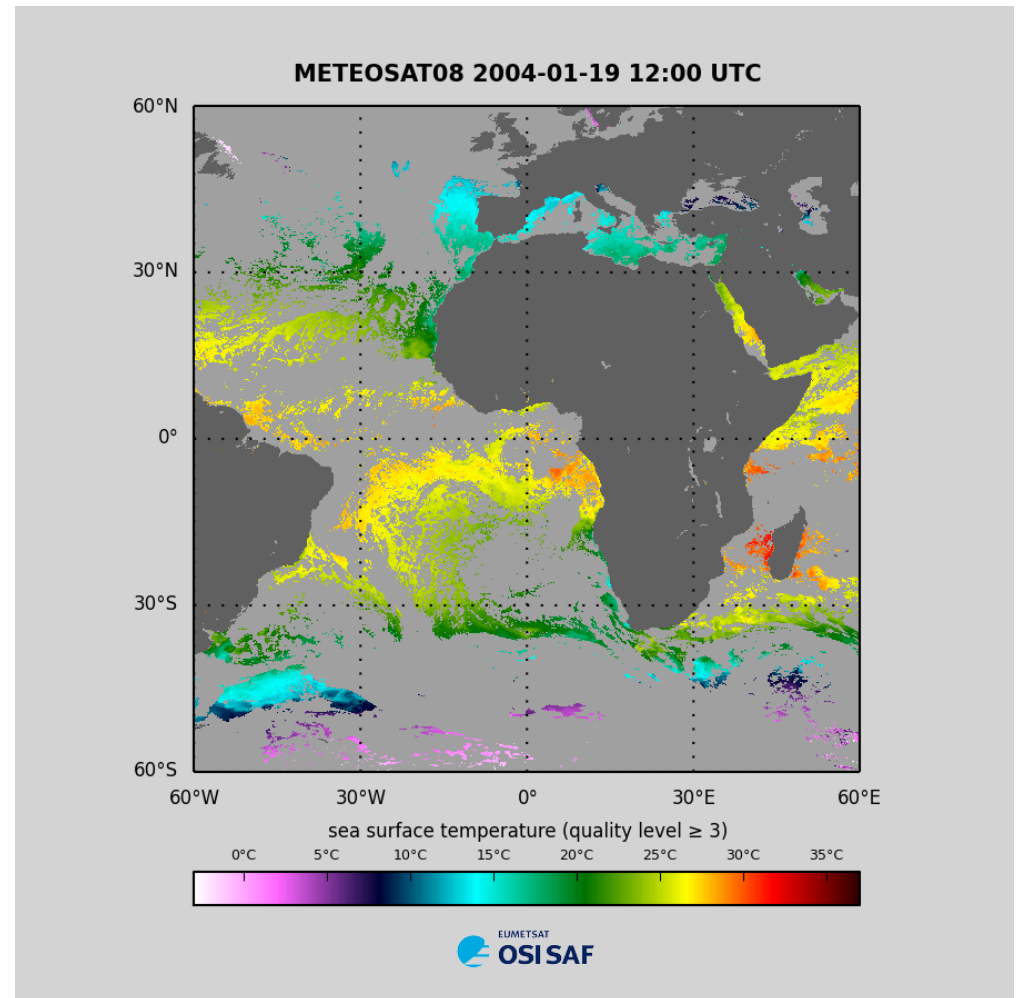| Product ID	Instrument	Coverage
OSI-206-a	Meteosat-11/SEVIRI	L3C 0.05° grid/hourly
OSI-207-a	GOES-16/ABI	L3C 0.05° grid/hourly
OSI-IO-SST	Meteosat-8/SEVIRI	L3C 0.05° grid/hourly
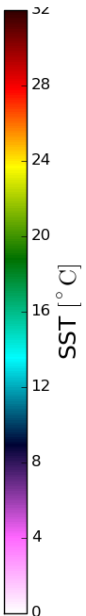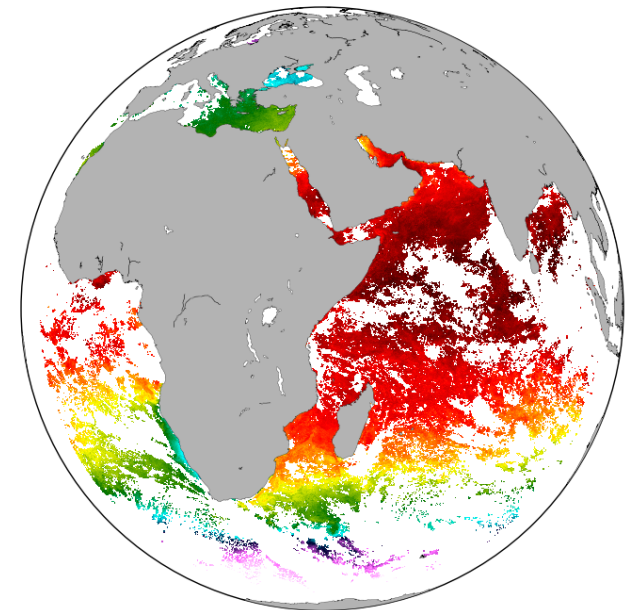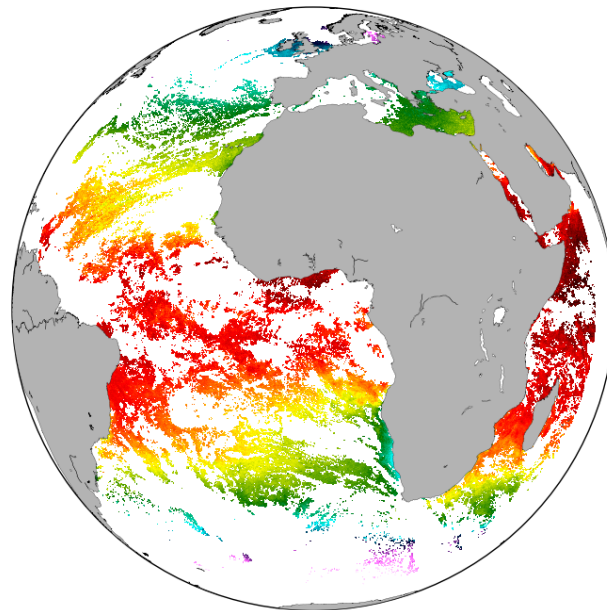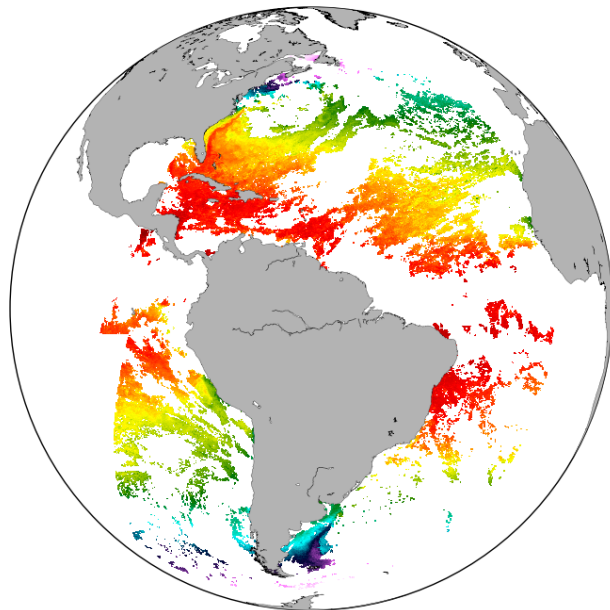
Reprocessed datasets

OSI-250:

MSG/SEVIRI sea surface temperature 2004-2012

L3C 0.05° grid/hourly

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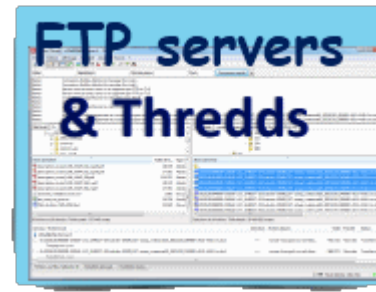
Main activities since G-XIX

- Operational processing of GOES-16 and Meteosat-11

- Metop-C in test processing: global L2P and L3C SST products

- Introduced Metop-B and NPP high latitude IST/SST product

- Introduced probabilistic classifier in addition to the PPS for high latitude SST and IST processing

- Development of new GEO SST processing chain

- Produced (DMI + Met.no) the Arctic and Antarctic Ice Surface Temperatures from AVHRR thermal Infrared satellite sensors (AASTI), 1982-2015

- Produced IST monthly climatology

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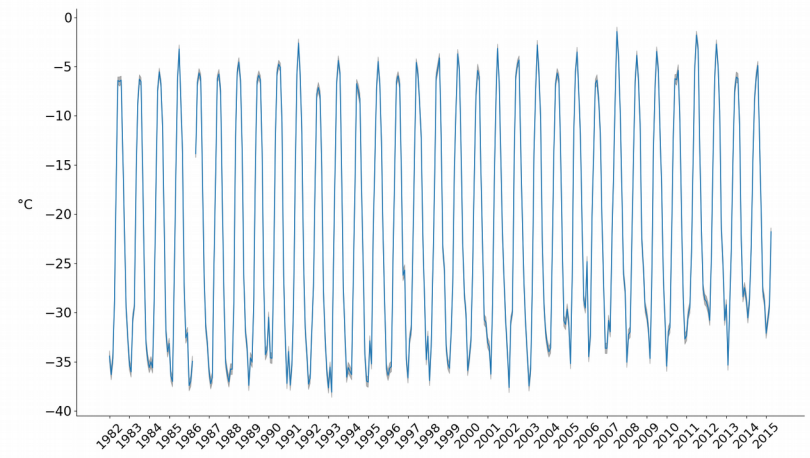
Access to OSI SAF data

EUMETCast

EUMETCast is a multi-service dissemination system based on standard Digital Video Broadcast (DVB) technology.

PODAAC

Physical Oceanography Distributed Active Archive Center

http://podaac.jpl.nasa.gov/

Naiad

Discovery tool

http://naiad.ifremer.fr/

FTP servers & Thredds

The OSI SAF dissemination by the three subsystem

EDC

The EUMETSAT Data Centre provides a long-term archive of data and generated products from EUMETSAT, which can be ordered online.
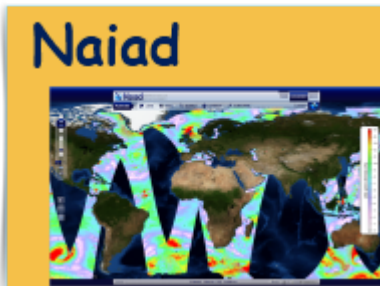
More information on   Access to data
http://osi-saf.eumetsat.int

Users survey

https://framaforms.org/how-do-you-use-osi-saf-products-1559035861

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