

RDAC Update: EUMETSAT OSI SAF

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Introduction

OSI SAF: Ocean and Sea-Ice Satellite Application Facility of the European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT).

OSI SAF partners:

<p>Météo-France</p> 	<p>Norwegian Meteorological Institute</p> 	<p>Danish Meteorological Institute</p> 	<p>Royal Netherlands Meteorological Institute</p> 	<p>French research institute for the exploitation of the sea</p> 
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OSI SAF Objectives: Provide users with operational data of wind, radiative fluxes, sea surface temperature and sea-ice parameters derived from meteorological satellite.

Introduction

On-going real-time SST data production:

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 SNPP/VIIRS	and L3 North Atlantic Region/6 hourly
OSI-203	METOP-A/AVHRR	L3 Atlantic High Latitudes/12 hourly
OSI-204-b	METOP-B/AVHRR	L2 Global full resolution/granules
OSI-205	METOP-A/AVHRR	L2 Atlantic High Latitudes/granules (SST+IST, available summer 2016)
OSI-206	METEOSAT10/SEVIRI	L3 60S-60N and 60W-60E on a 0.05° grid/hourly
OSI-207	GOES13-East	L3 60S-60N and 135W-15W on a 0.05° grid/hourly
OSI-208-b	METOP-B/IASI	L2 global full resolution in satellite projection

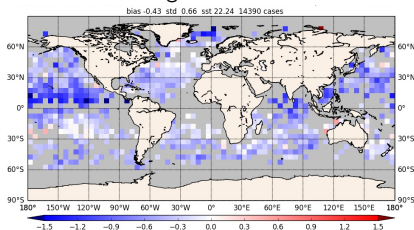
Main activities since GHR SST XVI

Updated processing chain for Low Earth Orbiter:

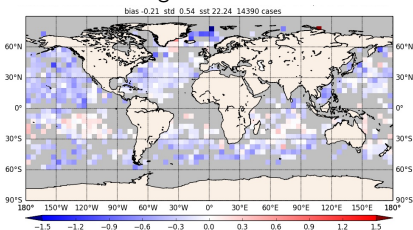
- ▶ Operational since 23rd February 2016.
- ▶ Processing METOP-B/AVHRR data in NRT.
- ▶ Algorithm correction scheme (Le Borgne et al., 2011).
- ▶ Delivers L2P granules (OSI-201-b), L3C NAR (OSI-202-b) and L3C (OSI-204-b) global products GDS 2.0 compliant.

Comparison to buoys

Before algorithm correction



After algorithm correction

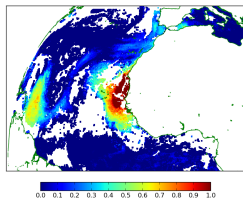


Main activities since GHR SST XVI

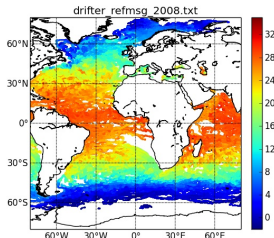
MSG/SEVIRI reprocessing:

- ▶ L1 dataset and all ancillary datasets complete and checked.
- ▶ Simulation and Saharan dust index have been processed.
- ▶ Control of the cloud mask, NL algorithm and matchup routines are implemented.
- ▶ Final dataset (OSI-250) will cover 2004-2012; on a 0.05° regular lat/lon grid.
- ▶ **Next steps:** Implement the bias correction and OE.

Saharan Dust Index



ERAclim dataset (drifters)

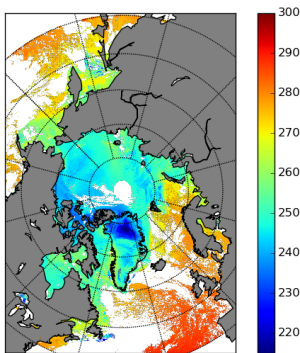


Poster: S. Péré et al., Progress on the OSI SAF MSG/SEVIRI SST reprocessing

Main activities since GHR SST XVI

Update of high latitude SST:

- ▶ New product: L2 SST/IST (OSI-205) poleward of 50°N and 50°S , operational summer 2016
- ▶ Ongoing work: L3 SST (OSI-203-b) to include IST (poleward 50°N)
- ▶ Just started: Include SNPP/VIIIRS into L2 and L3 SST/IST products.



SST and IST 12 hourly product

Data availability

Access to the data:

Ifremer FTP server http://www.osi-saf.org	All OSI SAF SST products (except high latitudes) in near real time in GHR SST format
PO.DAAC: http://podaac.jpl.nasa.gov/	Same as above
GHR SST Long Term Stewardship and Reanalysis Facility	Same as PO.DAAC (archive)
EUMETCast (Satellite broadcast system)	All products (in GRIB2 format) and L2 products (AVHRR and IASI) in GDS v2 format. All other products in GDS v2 format from 7/7/2016.
EUMETSAT Data Center	Global or regional products (in GRIB2 or GHR SST format depending on product)

Decision was made to stop dissemination of OSI SAF products in GRIB format by the end of 2016

Analysing tool:

NAIAD: http://naiad.ifremer.fr/	Most OSI SAF products
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