

The EUMETSAT
Network of
Satellite Application
Facilities



OSI SAF

Ocean and Sea Ice

Ocean and Sea Ice SAF 2014 User Workshop

19-20 November 2014
Toulouse, France

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The EUMETSAT Satellite Application Facility on Ocean and Sea Ice (OSI SAF) is an answer to the common requirements of meteorology and oceanography for a comprehensive information on the ocean-atmosphere interface. OSI SAF products are derived from meteorological satellite data and related to Sea Surface Temperature, Sea Ice, Radiative Fluxes and Winds at the ocean surface.

Since 2002, the OSI SAF produces, controls quality and distributes, in near real-time, operational ocean observation products, with the necessary users support activities. The OSI SAF provides also some long term data records through reprocessing activities.

Continuous Research and Development activities allow to enhance the algorithms and products, and to take into account new satellites. The OSI SAF organises regular User Workshops to stimulate the discussion between users and OSI SAF partners, and to collect input and guidance for future evolutions of its products and services.

Consortium

The OSI SAF is coordinated by EUMETSAT, and constituted of the following partners :

- Météo-France,
- Norwegian Meteorological Institute (MET Norway),
- Danish Meteorological Institute (DMI),
- Royal Netherlands Meteorological Institute (KNMI),
- Institut Français de REcherche pour l'exploitation de la MER (IFREMER, French oceanic institute).

Objective

The objective of the workshop is

- to provide a forum for users to present and discuss experience and requirements on satellite based products and services,
- to present and discuss the provision of products and services by the Satellite Application Facility on Ocean and Sea Ice.

Venue

The workshop will be held at Météo-France Headquarters in Toulouse :

Météo-France

Centre International de Conférences

42, avenue Gaspard Coriolis

31057 Toulouse cedex 1

France

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Programme

The workshop programme will include :

- presentations by EUMETSAT about its current and future satellite programs, and their ocean observation capabilities,
- presentations by OSI SAF about the current status of its production, and the new products under development,
- presentations by users about OSI SAF products applications, and their needs for products evolutions or new products,
- discussions about priorities for OSI SAF next phase (2017-2022), in the context of new satellite programs (MTG, EPS-SG, S3..).

Posters from users and OSI SAF team, presenting scientific results related to OSI SAF products, are welcome. A dedicated space will be available in the conference centre hall.

Wednesday, 19 November		
08:45	Registration	
09:00	The EUMETSAT SAF Network	Lothar Schüller (EUMETSAT)
09:15	Overview of the OSI SAF	Cécile Hernandez (Météo-France)
09:30	<ul style="list-style-type: none"> - Status of the MSG, EPS-SG programs - Sentinel-3 products - Third party mission data redistribution - Altimetry products 	François Montagner, Susanne Dieterle and/or Julia Figa (EUMETSAT)
Session 1 : Sea Ice		
10:00	OSI SAF prospects on Sea Ice	OSI SAF team
10:30	Coffee Break	
11:00	Sea ice emissivity modelling at Météo-France and related impact studies, via data assimilation in ARPEGE, over polar regions	Fatima Karbou (Météo-France)
11:15	Needs for SST and sea-ice (Magdalena Balmaseda)	Giovanna De Chiara (ECMWF)
11:30	Research involving 4DVar data assimilation of the OSI SAF products	Frank Kauker (AWI, O.A.Sys)
11:45	Use of the OSI SAF sea ice concentration data at CM SAF	Nathalie Selbach (DWD)
12:00	Experience and feedback about the OSI SAF sea ice concentration product from OSTIA (Met Office)	Jonah Roberts-Jones (Met Office)
12:15	Discussion on sea ice requirements	
12:45	Lunch Break in the CIC hall	

Wednesday, 19 November		
Session 2 : Sea Surface Temperature and radiative fluxes		
14:15	OSI SAF prospects on SST and radiative fluxes	OSI SAF team
14:45	Experience and feedback about the OSI SAF SST product from OSTIA (Met Office)	Jonah Roberts-Jones (Met Office)
15:00	Experience and feedback from southern countries in satellite oceanography research, training and expertise	Dominique Dagorne (IRD)
15:15	Use of geostationary Surface Solar Irradiance in spatial interpolations of local observations	Emilie Mallet (Météo-France)
15:45	Discussion on SST and radiative fluxes requirements	
16:00	Coffee Break	
Session 3 : Interactions with other projects		
16:30	SST reprocessing from low earth orbiting satellites in ESA-CCI	Owen Embury (by phone) (University of Reading)
16:45	PO.DAAC and NASA working on developing best practices towards data quality	David Moroni (PO.DAAC)
17:00	Copernicus Marine Service : future use and needs concerning OSI SAF products	Laurence Crosnier (Mercator Ocean)
17:15	Discussion	
17:30	Poster Session	
18:00	Adjourn	

Thursday, 20 November		
Session 4 : Wind		
09:00	OSI SAF prospects on Wind	OSI SAF team
09:30	Servicing Diverse User Needs with Physical Oceanographic Data at a NASA Data Center	David Moroni (PO.DAAC)
09:45	Satellite winds for surges, waves and oceanography	Marco Bajo (ISMAR)
10:00	Scatterometer wind products for Nowcasting	Magnus Ovhed (Met.No)
10:15	Wind products use and needs at ECMWF	Giovanna De Chiara (ECMWF)
10:30	Operational use of OSI SAF scatterometer winds at Météo-France: processing and impacts	Christophe Payan (Météo-France)
10:45	Coffee Break	
11:00	Discussion on wind requirements	
General discussion and wrap-up		
11:30	General discussion and conclusion	
12:00	Adjourn	

Acronyms

ARPEGE	ARPEGE/IFS atmosphere model (Météo-France & ECMWF)
AWI	Alfred Wegener Institute (research in the Arctic and Antarctic as well as in the high and mid latitude ocean)
CM SAF	Climate Monitoring Satellite Application Facility
DMI	Danish Meteorological Institute
DWD	Deutscher Wetterdienst German meteorological institute
ECMWF	European Centre for Medium-Range Weather Forecasts
ESA-CCI	European Space Agency Climate Change Initiative
EUMETSAT	European Organisation for the Exploitation of Meteorological Satellites
KNMI	Koninklijk Nederlands Meteorologisch Instituut Royal Netherlands Meteorological Institute
Ifremer	Institut français de recherche pour l'exploitation de la mer French Research Institute for Exploitation of the Sea
IRD	Institut de Recherche pour le Développement (French research organisation)
ISMAR	Istituto di Scienze Marine Italian Institute of Marine Sciences
Mercator Ocean	French Operational Oceanography Centre
Météo-France	French Meteorological Institute
Met.No	Norwegian Meteorological Institute
Met Office	United Kingdom Meteorological Institute
OSTIA	Operational Sea Surface Temperature and Sea Ice Analysis (Met Office)
O.A.Sys	Ocean Atmosphere Systems
PO.DAAC	Physical Oceanography Distributed Active Archive Center