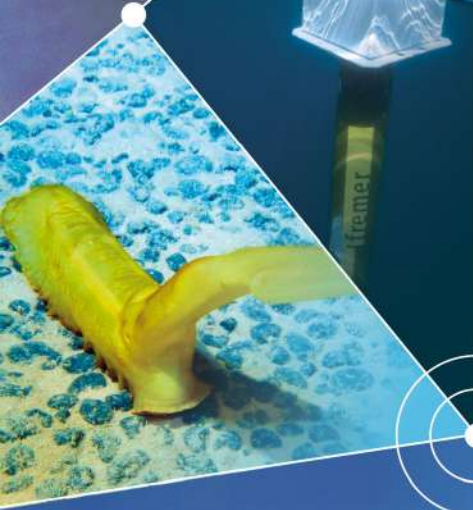


ODATIS AT #9 - FAIR

METADONNÉES SATELLITES À IFREMER



Sommaire

- CERSAT
- Outils de diffusion / découverte
- Outils de catalogage
 - Profil de métadonnées
 - Enrichissement automatique

CERSAT

Le centre de recherche et d'exploitation satellitaire de l'Ifremer

- **Préparation de mission**
- **Centre de traitement NRT et DM**
- **Support qualité et expertise**
- **Produits évolués, applications, lien avec la communauté utilisatrice**
- **Climat, séries longues et homogènes**

CERSAT

Température de surface

- Medspiration (ESA)
- CMEMS (EU/Copernicus)
- Sentinel-3 (Eumetsat/Copernicus)
- Ocean and Sea Ice SAF (Eumetsat)

Vagues, états de mer

- GlobWave (ESA)
- Climate Change Initiative (ESA)
- Sentinel-1 (ESA)
- CFOSAT (CNES)

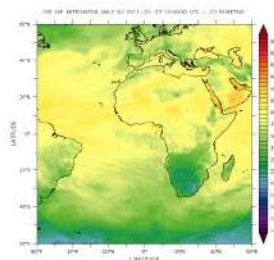
Vents

- CMEMS (EU/Copernicus)
- CFOSAT (CNES)
- Sentinel-1 (ESA)
- SMOS Wind (ESA)

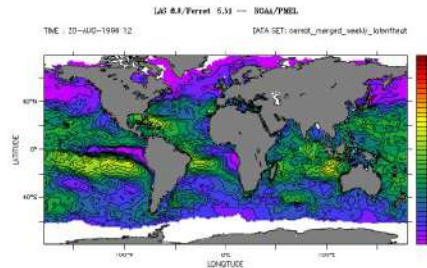
Salinité

- SMOS (ESA, CNES)
- Climate Change Initiative (ESA)

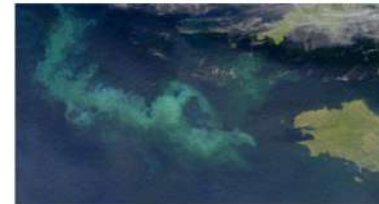
CERSAT



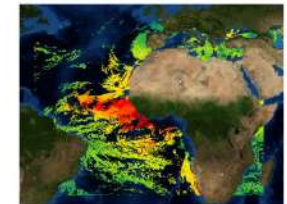
downward longwave irradiance ($W m^{-2}$)
Flux radiatifs



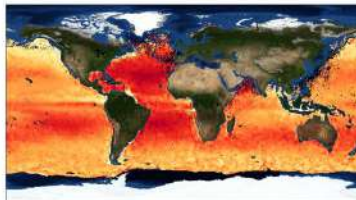
latent heat (watt per meter²)
Flux turlulents



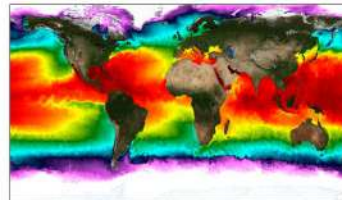
Couleur de l'eau



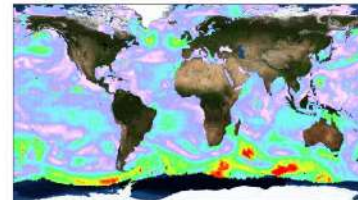
Aerosols



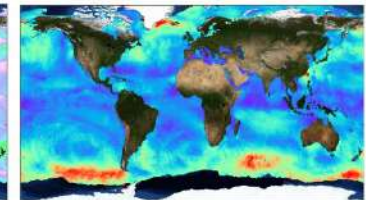
Salinité



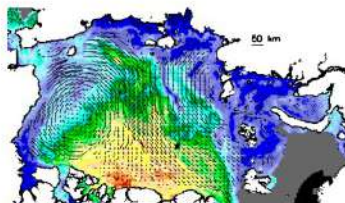
Température de surface



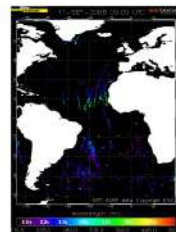
Vents Vents extrêmes



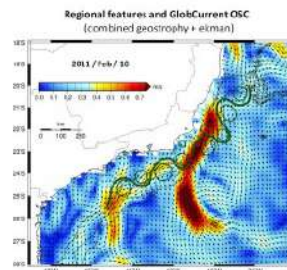
Échanges gazeux (CO2)



Glaces de mer



Vagues



Courants

Environ 25000 tâches lancées quotidiennement
Plus de 100 h de calcul quotidien (parallélisation non prise en compte)
Environ 60 To de données réceptionnées par mois
200 To d'archive sur bande
2 Po de données sur disques

Outils de diffusion / découverte

- FTP
- HTTP(S)
 - Accès direct
 - THREDDS (OpeNDAP, WMS, WCS)
 - OpenSearch

Outils de diffusion / découverte

THREDDs (OpenDAP, WMS, WCS)

 Catalog <http://tds0.ifremer.fr/thredds/OSISAF.html>

Dataset

-  [OSISAF](#)
-  [GLOBAL SEA SURFACE TEMPERATURE L3P AVHRR METOP B NRT \(OSI-201-b\) Full Time Serie/](#)
-  [GLOBAL SEA SURFACE TEMPERATURE L3P AVHRR METOP A NRT \(OSI-201\) Full Time Serie/](#)
-  [NORTH ATLANTIC REGIONAL SEA SURFACE TEMPERATURE L3P AVHRR METOP A NRT \(OSI-202\) Full Time Serie/](#)
-  [NORTH ATLANTIC REGIONAL SEA SURFACE TEMPERATURE L3P AVHRR NOAA 18 NRT \(OSI-202\) Full Time Serie/](#)
-  [NORTH ATLANTIC REGIONAL SEA SURFACE TEMPERATURE L3P AVHRR NOAA 19 NRT \(OSI-202\) Full Time Serie/](#)
-  [EAST ATLANTIC/WEST INDIAN SEA SURFACE TEMPERATURE L3C METEOSAT NRT \(OSI-206 series\) Full Time Serie/](#)
-  [EAST PACIFIC/WEST ATLANTIC SEA SURFACE TEMPERATURE L3C GOES NRT \(OSI-207 series\) Full Time Serie/](#)
-  [EAST ATLANTIC/WEST INDIAN SURFACE RADIATIVE FLUXES L3 DAILY METEOSAT NRT \(OSI-303 & OSI-304 series\) Full Time Serie/](#)
-  [EAST ATLANTIC/WEST INDIAN SURFACE RADIATIVE FLUXES L3 HOURLY SEVIRI METEOSAT NRT \(OSI-303 & OSI-304 series\) Full Time Serie/](#)
-  [EAST PACIFIC/WEST ATLANTIC SURFACE RADIATIVE FLUXES L3C DAILY GOES NRT \(OSI-305 & OSI-306 series\) Full Time Serie/](#)
-  [EAST PACIFIC/WEST ATLANTIC SURFACE RADIATIVE FLUXES L3 HOURLY GOES NRT \(OSI-305 & OSI-306 series\) Full Time Serie/](#)
-  [INDIAN SURFACE RADIATIVE FLUXES L3 DAILY METEOSAT NRT \(OSI-I0-DLI & OSI-I0-SSI series\) Full Time Serie/](#)
-  [INDIAN SURFACE RADIATIVE FLUXES L3 HOURLY METEOSAT NRT \(OSI-I0-DLI & OSI-I0-SSI series\) Full Time Serie/](#)
-  [INDIAN SEA SURFACE TEMPERATURE L3C METEOSAT NRT \(OSI-I0-SST series\) Full Time Serie/](#)
-  [GLOBAL SEA SURFACE TEMPERATURE L2P AVHRR METOP B NRT \(OSI-204-b\)/](#)

Outils de diffusion / découverte

THREDDS (OpeNDAP, WMS, WCS)



THREDDS Data Server

Catalog http://tds0.ifremer.fr/thredds/OSISAF/OSI-201-b-metop_b_

Dataset: GLOBAL SEA SURFACE TEMPERATURE L3P AVHRR ME

- Data format: netCDF
- Data type: GRID
- Harvest: true
- ID: OSI-201-b-metop_b_FULL_TIME_SERIE

Documentation:

- **summary:** GLOBAL SEA SURFACE TEMPERATURE L3P AVHRR METOP B NRT (OSI-201-b) Full Time

Access:

1. **OpeNDAP:** [/thredds/dodsC/OSI-201-b-metop_b_FULL_TIME_SERIE](#)
2. **WMS:** [/thredds/wms/OSI-201-b-metop_b_FULL_TIME_SERIE](#)
3. **WCS:** [/thredds/wcs/OSI-201-b-metop_b_FULL_TIME_SERIE](#)

Keywords:

- **adi_dtime_from_sst (CF-1.0)**
- **aerosol_dynamic_indicator (CF-1.0)**
- **dt_analysis (CF-1.0)**
- **l2p_flags (CF-1.0)**
- **quality_level (CF-1.0)**
- **satellite_zenith_angle (CF-1.0)**
- **sea_ice_area_fraction (CF-1.0)**
- **sea_surface_subskin_temperature (CF-1.0)**
- **solar_zenith_angle (CF-1.0)**
- **sources_of_adi (CF-1.0)**
- **sses_bias (CF-1.0)**
- **sses_standard_deviation (CF-1.0)**
- **sst_dtime (CF-1.0)**
- **wind_speed (CF-1.0)**

Variables:

- **Vocabulary [CF-1.0]:**
 - **adi_dtime_from_sst (hour)** = **adi_dtime_from_sst**
 - **aerosol_dynamic_indicator ()** = **aerosol_dynamic_indicator**
 - **dt_analysis (kelvin)** = **dt_analysis**
 - **l2p_flags** = **l2p_flags**
 - **quality_level** = **quality_level**
 - **satellite_zenith_angle (angular_degree)** = **satellite_zenith_angle**
 - **sea_ice_fraction ()** = **sea_ice_area_fraction**
 - **sea_surface_temperature (kelvin)** = **sea_surface_subskin_temperature**
 - **solar_zenith_angle (angular_degree)** = **solar_zenith_angle**
 - **sources_of_adi** = **sources_of_adi**
 - **sses_bias (kelvin)** = **sses_bias**
 - **sses_standard_deviation (kelvin)** = **sses_standard_deviation**
 - **sst_dtime (seconds)** = **sst_dtime**
 - **wind_speed (m s-1)** = **wind_speed**

GeospatialCoverage:

- **Longitude:** -179.975 to 179.9740000000002 Resolution=0.0498047 degrees_east
- **Latitude:** -89.9746 to 89.97440000000002 Resolution=0.0498047 degrees_north

TimeCoverage:

- **Start:** 2016-01-07T00:00:00Z
- **End:** 2021-03-22T00:00:00Z

Properties:

- **aggregation-level** = "view"

Outils de diffusion / découverte

THREDDS (OpeNDAP, WMS, WCS)

Action:

Data URL:

Global Attributes:

```

NCProperties:
version=1|netcdf|libversion=4.4.1.1|hdf5|libversion=1.10.2
Conventions: CF-1.4
title: Sea Surface Temperature
summary: The GLB L3C product derived from METOP B AVHRR brightness
temperatures.
    
```

Variables:

☐ **lat:** Array of 32 bit Reals [lat = 0..3599]

lat:
 long_name: Latitude
 standard_name: latitude
 axis: Y
 units: degrees_north
 valid_min: -90.0
 valid_max: 90.0

☐ **lon:** Array of 32 bit Reals [lon = 0..7199]

lon:
 long_name: Longitude
 standard_name: longitude
 axis: X
 units: degrees_east
 valid_min: -180.0
 valid_max: 180.0

☐ **time:** Array of 32 bit Integers [time = 0..3772]

time:
 long_name: reference time of sst file
 standard_name: time
 axis: T
 units: seconds since 1981-01-01 00:00:00
 comment: includes leap seconds since 1981
 chunkSize: 1

☐ **sea_surface_temperature:** Grid

time: lat: lon:
 FillValue: -32768
 long_name: sea surface subskin temperature
 standard_name: sea_surface_subskin_temperature
 units: kelvin
 add_offset: 273.15
 scale_factor: 0.01

☐ **sst_dtime:** Grid

time: lat: lon:
 FillValue: -2147483648
 long_name: time difference from reference time
 units: seconds
 add_offset: 0.0
 scale_factor: 1.0
 valid_min: -2147483647

☐ **sses_bias:** Grid

time: lat: lon:
 Unsigned: false
 FillValue: -128
 long_name: SSES bias estimate
 units: kelvin
 add_offset: 0.0
 scale_factor: 0.01

☐ **sses_standard_deviation:** Grid

time: lat: lon:
 Unsigned: false
 FillValue: -128
 long_name: SSES standard deviation
 units: kelvin
 add_offset: 1.0
 scale_factor: 0.01

☐ **dt_analysis:** Grid

time: lat: lon:
 Unsigned: false
 FillValue: -128
 long_name: deviation from SST analysis or reference climatology
 units: kelvin
 add_offset: 0.0
 scale_factor: 0.1

☐ **wind_speed:** Grid

time: lat: lon:
 Unsigned: false
 FillValue: -128
 long_name: 10m wind speed
 standard_name: wind_speed
 units: m s-1
 height: 10 m

☐ **sea_ice_fraction:** Grid

time: lat: lon:
 Unsigned: false
 FillValue: -128
 long_name: sea ice fraction
 standard_name: sea_ice_area_fraction
 units:
 add_offset: 0.0

☐ **aerosol_dynamic_indicator:** Grid

time: lat: lon:
 Unsigned: false
 FillValue: -128
 long_name: aerosol dynamic indicator
 units:
 add_offset: 0.0
 scale_factor: 0.1

Outils de diffusion / découverte

OpenSearch : <https://opensearch.ifremer.fr/>

Web service facilitant la découverte et l'accès aux données via des requêtes http. Les paramètres de requête sont :

- Identifiant du jeu de données
- Date de début
- Date de fin
- Emprise géographique

Demo

Check some demos about the Ifremer OpenSearch Service.

<https://opensearch.ifremer.fr/docs/demo/>

Granules

You'll find bellow a quick demo for the **granules** resource :

datasetId

avhrr_sst_metop_a-osisaf-l2p-v1.0

Generated corresponding OpenSearch Resource URI :

https://opensearch.ifremer.fr/granules.atom?datasetId=avhrr_sst_metop_a-osisaf-l2p-v1.0&startPage=0&count=1000&timeStart=1000-01-01T00:00:00Z&timeEnd=2200-01-01T23:59:59Z&geoBox=-180

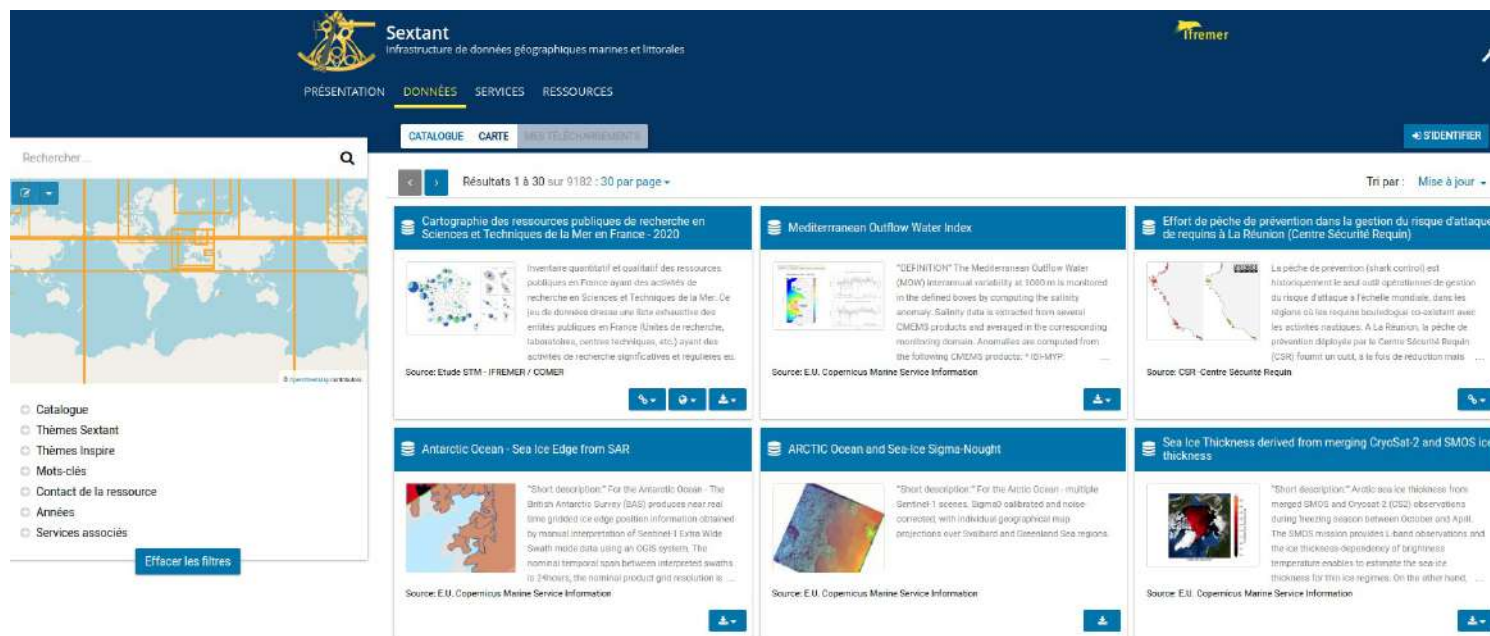
Outils de diffusion / découverte

OpenSearch : <https://opensearch.ifremer.fr/>

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<link title="HTPS" rel="enclosure" type="application/octet-stream" href="https://osisaf.ifremer.fr/sst/l2p/avhrr_metop_b/2020/17/20200619034603-OSISAF-L2P_GHRSSST-SSTsubskin-AVHRR_SST_METOP_B-sstngr_metop01_20200619_034603-v02.0-fv01.0.nc"/>
<summary type="text">Granule metadata for 20200619034603-OSISAF-L2P_GHRSSST-SSTsubskin-AVHRR_SST_METOP_B-sstngr_metop01_20200619_034603-v02.0-fv01.0.nc</summary>
</entry>
</feed>
```

Outils de catalogage

Sextant : sextant.ifremer.fr



The screenshot displays the Sextant web application interface. At the top, the header includes the Sextant logo, the text "Infrastructure de données géographiques marines et littorales", and navigation links for "PRÉSENTATION", "DONNÉES", "SERVICES", and "RESSOURCES". A search bar is located on the left, and a "S'IDENTIFIER" button is on the right. The main content area shows a grid of search results for "Résultats 1 à 30 sur 9182 : 30 par page". The results are organized into columns, each featuring a thumbnail image, a title, a brief description, and the source. The visible results include:

- Cartographie des ressources publiques de recherche en Sciences et Techniques de la Mer en France - 2020**: Inventaire quantitatif et qualitatif des ressources publiques en France ayant des activités de recherche en Sciences et Techniques de la Mer. Source: Etude STM - IFREMER / CCMER.
- Mediterranean Outflow Water Index**: "DEFINITION" The Mediterranean Outflow Water (MOW) interannual variability at 1000 m is monitored in the defined boxes by computing the salinity anomaly. Source: E.U. Copernicus Marine Service Information.
- Effort de pêche de prévention dans la gestion du risque d'attaque de requins à La Réunion (Centre Sécurité Requin)**: Le pêche de prévention (shark control) est historiquement le seul outil opérationnel de gestion du risque d'attaque à l'échelle mondiale, dans les régions où les requins bousillards co-existent avec les activités récréatives. Source: CSR - Centre Sécurité Requin.
- Antarctic Ocean - Sea Ice Edge from SAR**: "Short description:" For the Antarctic Ocean - The British Antarctic Survey (BAS) produces near real time gridded ice edge position information obtained by manual interpretation of Sentinel-1 Extra Wide Swath mode data using an OGS system. Source: E.U. Copernicus Marine Service Information.
- ARCTIC Ocean and Sea-Ice Sigma-Nought**: "Short description:" For the Arctic Ocean - multiple Sentinel-1 scenes, Sigma0 calibrated and noise-corrected, with individual geographical map projections over Svalbard and Greenland Sea regions. Source: E.U. Copernicus Marine Service Information.
- Sea Ice Thickness derived from merging CryoSat-2 and SMOS ice thickness**: "Short description:" Arctic sea ice thickness from merged SMOS and Cryosat 2 (CS2) observations during freezing season between October and April. Source: E.U. Copernicus Marine Service Information.

On the left side of the interface, there is a sidebar with a search bar and a list of filters: "Catalogue", "Thèmes Sextant", "Thèmes Inspire", "Mots-clés", "Contact de la ressource", "Années", and "Services associés". An "Effacer les filtres" button is located at the bottom of the sidebar.

Basé sur Geonetwork, ISO 19115, protocoles OGC (dont CSW)

Profil de métadonnées

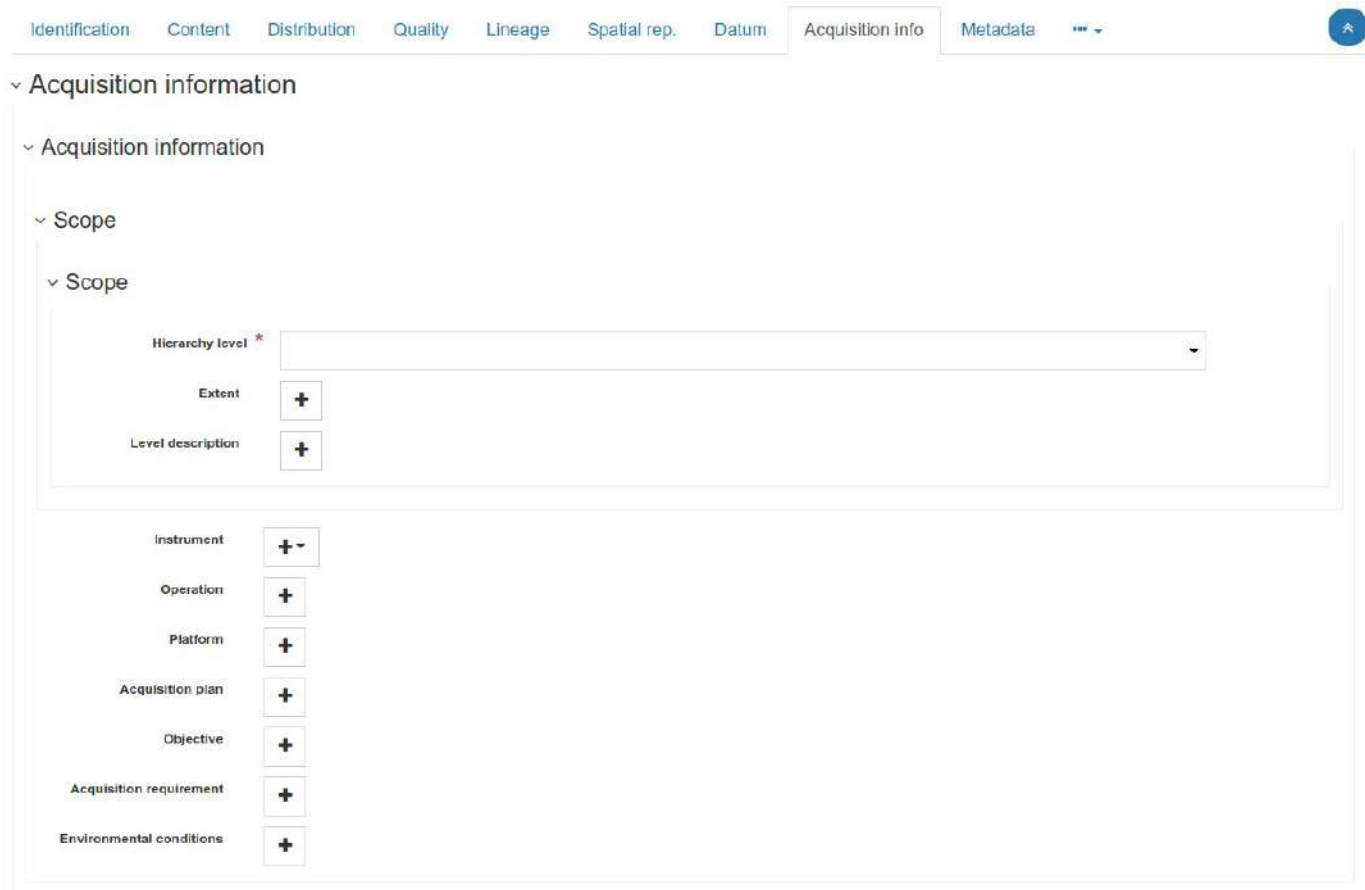
Utilisation de l'ISO 19115-3:2018

- Pourquoi pas l'ISO 19115-1 / 2?
- Pourquoi un profil spécifique « données satellites »?

Profil de métadonnées

Utilisation de l'ISO 19115-3:2018

- Pourquoi pas l'ISO 19115-1 / 2?
- Pourquoi un profil spécifique « données satellites »?



The screenshot shows a web-based metadata profile form. At the top, there is a navigation bar with tabs: Identification, Content, Distribution, Quality, Lineage, Spatial rep., Datum, Acquisition info (selected), and Metadata. Below the tabs, the form is organized into sections:

- Acquisition information** (expanded):
 - Acquisition information** (expanded):
 - Scope** (expanded):
 - Scope** (expanded):
 - Hierarchy level ***: A dropdown menu.
 - Extent**: A button with a plus sign (+).
 - Level description**: A button with a plus sign (+).
 - Instrument**: A button with a plus and minus sign (+/-).
 - Operation**: A button with a plus sign (+).
 - Platform**: A button with a plus sign (+).
 - Acquisition plan**: A button with a plus sign (+).
 - Objective**: A button with a plus sign (+).
 - Acquisition requirement**: A button with a plus sign (+).
 - Environmental conditions**: A button with a plus sign (+).

Profil de métadonnées

Utilisation de l'ISO 19115-3:2018

- Pourquoi pas l'ISO 19115-1 / 2?
- Pourquoi un profil spécifique « données satellites »?



The screenshot displays a web-based metadata form. It features several expandable sections, each with a minus sign icon and a label. The 'Platform' section is expanded, showing a 'Citation' field with a plus icon. Below it, the 'Identifier' section is also expanded, revealing fields for 'Authority' (plus icon), 'Code' (plus icon with a red asterisk), 'Codespace' (plus icon), 'Version' (plus icon), and 'Description' (plus icon). Further down, another 'Identifier' section is visible but collapsed. At the bottom, a 'Description' field is present with a red asterisk, followed by 'Sponsor' (plus icon), 'Instrument' (plus icon with a red asterisk), 'Other property type' (plus icon), 'Other property' (plus icon), and 'History' (plus icon).

Profil de métadonnées

Utilisation de l'ISO 19115-3:2018

- Pourquoi pas l'ISO 19115-1 / 2 ?
- Pourquoi un profil spécifique « données satellites »?

Copie du modèle Template Remote Sensing créée le 2 ... | Tous les changements ont été sauvegardés. Groupe Vali

Identification Contenu Distribution Qualité Généalogie Rep. spatiale Datum Acquisition Métadonnées

Information de l'identification

Identification des données

Informations de référence

Information de référence

Title * Copie du modèle Template Remote Sensing créée le 2021-03-23 16:00:45

Autres appellations ou acronymes

Date * Création 01/19/2001

Edition

Date d'édition

Identificateur

Responsable + Rechercher un contact ...

Forme de la présentation

Séries

Autres informations de

Profil de métadonnées

Utilisation de l'ISO 19115-3:2018

- Pourquoi pas l'ISO 19115-1 / 2 ?
- Pourquoi un profil spécifique « données satellites »?

Copie du modèle Template Remote Sensing créée le 2 ... | Tous les changements ont été sauvegardés. Groupe ▼

Description	Contact	Accès et usage	Historique
Title Copie du modèle Template Remote Sensing créée le 2021-03-23 16:00:45			
Résumé			
Projet Rechercher dans le thésaurus ...			
Centre de données ODATIS Rechercher dans le thésaurus ...			
Identifiant de collection			
DOI + Ajouter un DOI			
▼ Source			
▼ Propriétés			
Niveau Saisir ou rechercher ...			
Modèle d'acquisition Saisir ou rechercher ...			
Compositing Saisir ou rechercher ...			
Latence Rechercher dans le thésaurus ...			

Profil de métadonnées

Utilisation de l'ISO 19115-3:2018

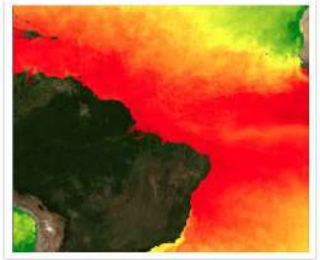
- Pourquoi pas l'ISO 19115-1 ?
- Pourquoi un profil spécifique « données satellites »?

ODYSSEA Brazil/Tropical Atlantic High Resolution Sea Surface Temperature Gridded Level 4 Daily Analysis

This L4 SST product is produced at ultra-high resolution (UHR) on a 0.02 x 0.02 degree grid (approximately 2 x 2 km) for the Tropical Atlantic area, every 24 hours. Optimal interpolation (OI) techniques are used to combine consistent swath measures of SST from different types of sensor and to fill gaps where no observations are available.

Whereas swath data essentially represent the skin or sub-skin SST, the L4 SST product is defined to represent the SST foundation (SST_{fnd}). SST_{fnd} is defined within GHRSST-PP as the temperature at the base of the diurnal thermocline. It is so named because it represents the foundation temperature on which the diurnal thermocline develops during the day. SST_{fnd} changes only gradually along with the upper layer of the ocean, and by definition it is independent of skin SST fluctuations due to wind- and radiation-dependent diurnal stratification or skin layer response. It is therefore updated at intervals of 24 hrs. SST_{fnd} corresponds to the temperature of the upper mixed layer which is the part of the ocean represented by the top-most layer of grid cells in most numerical ocean models. It is never observed directly by satellites, but it comes closest to being detected by a microwave radiometer which penetrates the skin, at dawn when the previous day's diurnal stratification can be assumed to have decayed and SST_{skin}, SST_{depr} and SST_{fnd} are equal.

Accès aux données




Description		Contact	Accès en usage
Titre		ODYSSEA Brazil/Tropical Atlantic High Resolution Sea Surface Temperature Gridded Level 4 Daily Analysis	
Identifiant de collection		CEP-SST-BRA-10-062-ODYMCD	
Source			
Instrument	Plateforme		
AVHRR	METOP-A		
AVHRR	METOP-B		
AVHRR	NOAA-18		
AVHRR	NOAA-19		
MODIS-A	AQUA		
AATSR	Envisat		
SEVIRI	MSG		
AMSRR2	GCOM-W		
Propriétés			
Niveau	L4		
Mode d'acquisition	Composite		
Comportement	Optimal interpolation		
Propriétés temporelles			
Date de début	2010-08-29		
Résolution	1 days		
Propriétés spatiales			
Résolution	0.02 degree		
Projection	Equiangular		
Zone géographique	Tropical Atlantic		
Emprise géographique	N 25.00 S -15.00 W -75.00 E -15.00		
Mots clés			
Centre de données ODATIS			
106-641-CEASAT			
GEMET - INSPIRE themes, version 1.0			
Oceanographic geospatial features			
Latence			
Lata 1000 24 heures			
Mots clés (COMD)			
Ocean Temperature/Sea Surface Temperature			
Principaux paramètres instrumentaux ou géophysiques			
Ocean Temperature			
Projet			
GEMET - INSPIRE themes, version 1.0			
Thématiques ODATIS			
Remarque			

Profil de métadonnées

- Titre, résumé, identifiant, DOI, résolutions
- Contacts (Helpdesk, PI, financeur)
- Accès et Usage : format, licence, citation
- Historique : mises à jour, problèmes, versions
- Aperçu de la donnée
- Liens de téléchargement et services
- Liens vers la documentation (PUM, Validation, Algorithm, etc.)

Profil de métadonnées

Vocabulaire contrôlé (Thesaurus) :

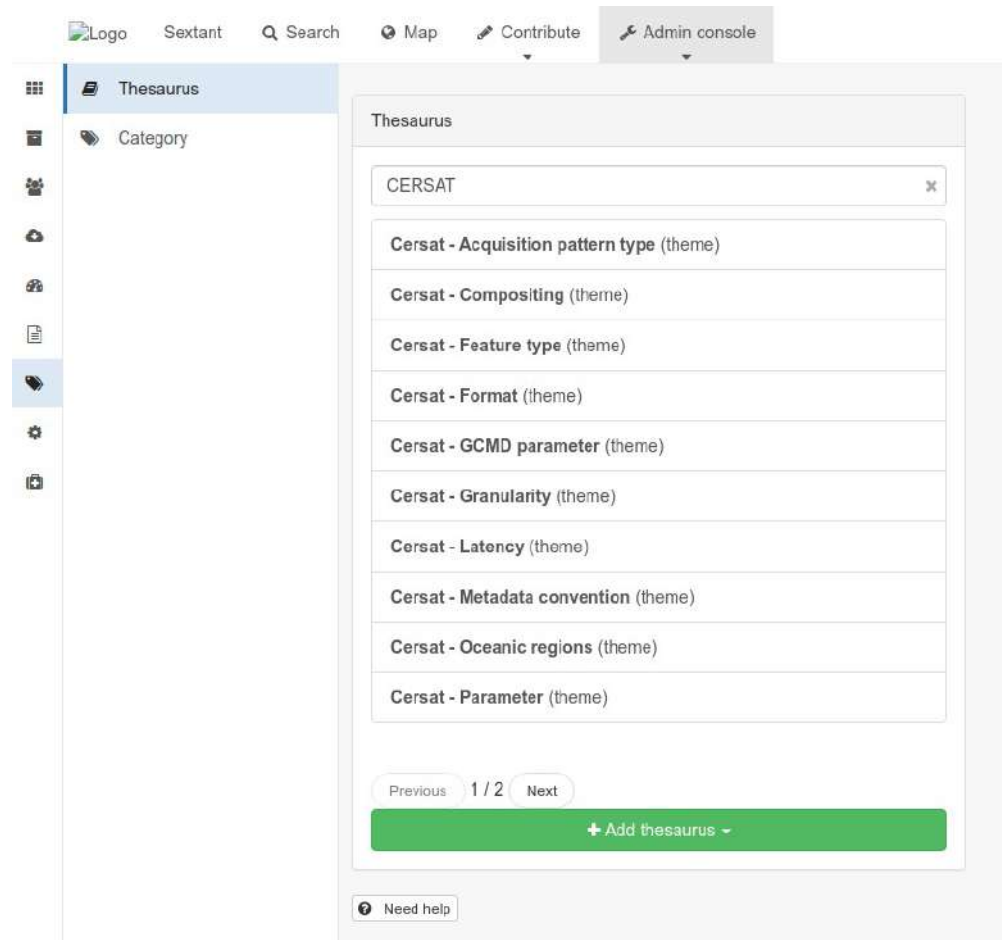
- Centre de données ODATIS (CDS-SAT-CERSAT)
- Variable ODATIS
- Type de jeux de données ODATIS (Télédétection)
- Thématique ODATIS (Télédétection)

- Niveau de traitement
- Mode d'acquisition
- Composition
- Granularité
- Latence
- Projection
- Zone géographique

- Mots clés (GCMD)
- Paramètres instrumentaux ou géophysiques
- Satellite
- Capteur
- Format des données
- Convention des métadonnées
- Projet

Profil de métadonnées

Vocabulaire contrôlé (Thesaurus) :



The screenshot shows the 'Thesaurus' section of the Sextant application. The interface includes a top navigation bar with 'Logo', 'Sextant', 'Search', 'Map', 'Contribute', and 'Admin console'. A left sidebar contains icons for 'Thesaurus' (selected), 'Category', and other functions. The main content area displays a list of thesaurus entries under the heading 'Thesaurus'. The search bar contains the text 'CERSAT'. The list includes the following entries:

- Cersat - Acquisition pattern type (theme)
- Cersat - Compositing (theme)
- Cersat - Feature type (theme)
- Cersat - Format (theme)
- Cersat - GCMD parameter (theme)
- Cersat - Granularity (theme)
- Cersat - Latency (theme)
- Cersat - Metadata convention (theme)
- Cersat - Oceanic regions (theme)
- Cersat - Parameter (theme)

At the bottom of the list, there are navigation buttons for 'Previous', '1 / 2', and 'Next', along with a green button labeled '+ Add thesaurus'. A 'Need help' link is located at the bottom left of the interface.

Profil de métadonnées

Vocabulaire contrôlé (Thesaurus) :

Download
Delete

Title Cersat - Oceanic regions

Identifier cersat_oceanic_regions.rdf

Thesaurus type Theme

Namespace http://custom.shared.obj.ch/concept#

☒ **Enable**
 In multinode mode, use this option to enable or disable a thesaurus for this node.

Keywords
Filter keyword
Switch language...
Show 50 results

+ Add keyword

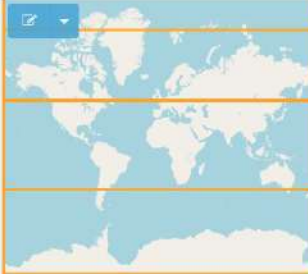
Antarctic URI: http://www.mysite.org/thesaurus#c964a371-0c78-4e18-8090-db0dfd4b009d		
Arctic URI: http://www.mysite.org/thesaurus#b311e22e-51d9-4ec5-9423-15808aaefa78		
East Atlantic URI: http://www.mysite.org/thesaurus#924c0fe0-defa-4eff-9d5b-63d7dbd1f0cb		
East Pacific URI: http://www.mysite.org/thesaurus#77b33499-0c97-4c45-ac52-f55cb3b3d5b0		
Global URI: http://www.mysite.org/thesaurus#bebf137a-3bb1-4a29-9c08-3ccb159e2f99		
Indian URI: http://www.mysite.org/thesaurus#aead27f8-7a89-408a-995c-7bafa163b183		
North Atlantic URI: http://www.mysite.org/thesaurus#c5741027-a0be-40f9-b6c4-6577f57c9e79		
West Atlantic URI: http://www.mysite.org/thesaurus#4896ce1b-6da2-4268-98a2-2df42a6b9fd0		
West Indian URI: http://www.mysite.org/thesaurus#49759f45-c815-449e-b57d-aa0db8a898c8		

Profil de métadonnées

Vocabulaire contrôlé (Thesaurus)

ADMINISTRATION

Search ...



© OpenStreetMap contributors

Platform

Instrument

Latency

☐ ~12hours (1)
☐ Historical (16)
☐ Less than 1 month (1)
☐ Less than 12 hours (1)
☐ Less than 24 hours (26)
☐ less than 24h (1)

Processing level

Project

Geographical area

Parameter

GCMD parameter

Spatial resolution

Provider

Reset filters

Results 1 to 30 on 269 : 30 by page

Sort by: Title

[Comple] Global Sea Surface Temperature L2P granule AV...



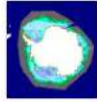
This product consist in Metop/AVHRR full resolution (1 km at nadir) sub-skin Sea Surface Temperature granules. Granules are disseminated every 3 minutes through ...

[Minimum] Global Sea Surface Temperature L2P granule AVHRR...



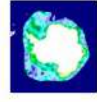
This product consist in Metop/AVHRR full resolution (1 km at nadir) sub-skin Sea Surface Temperature granules. Granules are disseminated every 3 minutes through ...

[MV] - Antarctic Sea Ice Backscatter Gridded Level 3 Compo...



This level 3 product contains antarctic polar stereographic 25 km resolution grids of backscatter coefficient over sea-ice from AMI-Wind scatterometers onboard ...

[MV] - Antarctic Sea Ice Backscatter Gridded Level 3 Co...



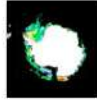
This level 3 product contains antarctic polar stereographic 25 km resolution grids of backscatter coefficient over sea-ice from AMI-Wind scatterometers ...

[MV] - Antarctic Sea Ice Backscatter Gridded Level 3 Compo...



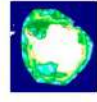
The ASCAT level 3 product contains, for both north and south poles, polar stereographic 12 and 25 km resolution grids of backscatter coefficient from the ASCAT scatterometer ...

[MV] - Antarctic Sea Ice Backscatter Gridded Level 3 Compo...



The ASCAT level 3 product contains, for both north and south poles, polar stereographic 12 and 25 km resolution grids of backscatter coefficient from the ASCAT scatterometer ...

[MV] - Antarctic Sea Ice Backscatter Gridded Level 3 Co...



This level 3 product contains, for antarctic, polar stereographic 25 km resolution grids of backscatter coefficient from NSCAT on ADECS scatterometer over sea- ...

[MV] - Antarctic Sea Ice Backscatter Gridded Level 3 Compo...



This group of level 3 products contains Antarctic polar stereographic 12.5 and 25 km resolution grids of backscatter coefficient over sea-ice from multiple scatterometers (ASCAT, ...

[MV] - Antarctic Sea Ice Backscatter Gridded Level 3 Compo...



The PSI-QuikSCAT level 3 product contains antarctic polar stereographic 12 and 25 km resolution grids of backscatter coefficient from QuikSCAT scatterometer over sea-ice. The grids are...

Enrichissement des métadonnées

Enrichissement des métadonnées

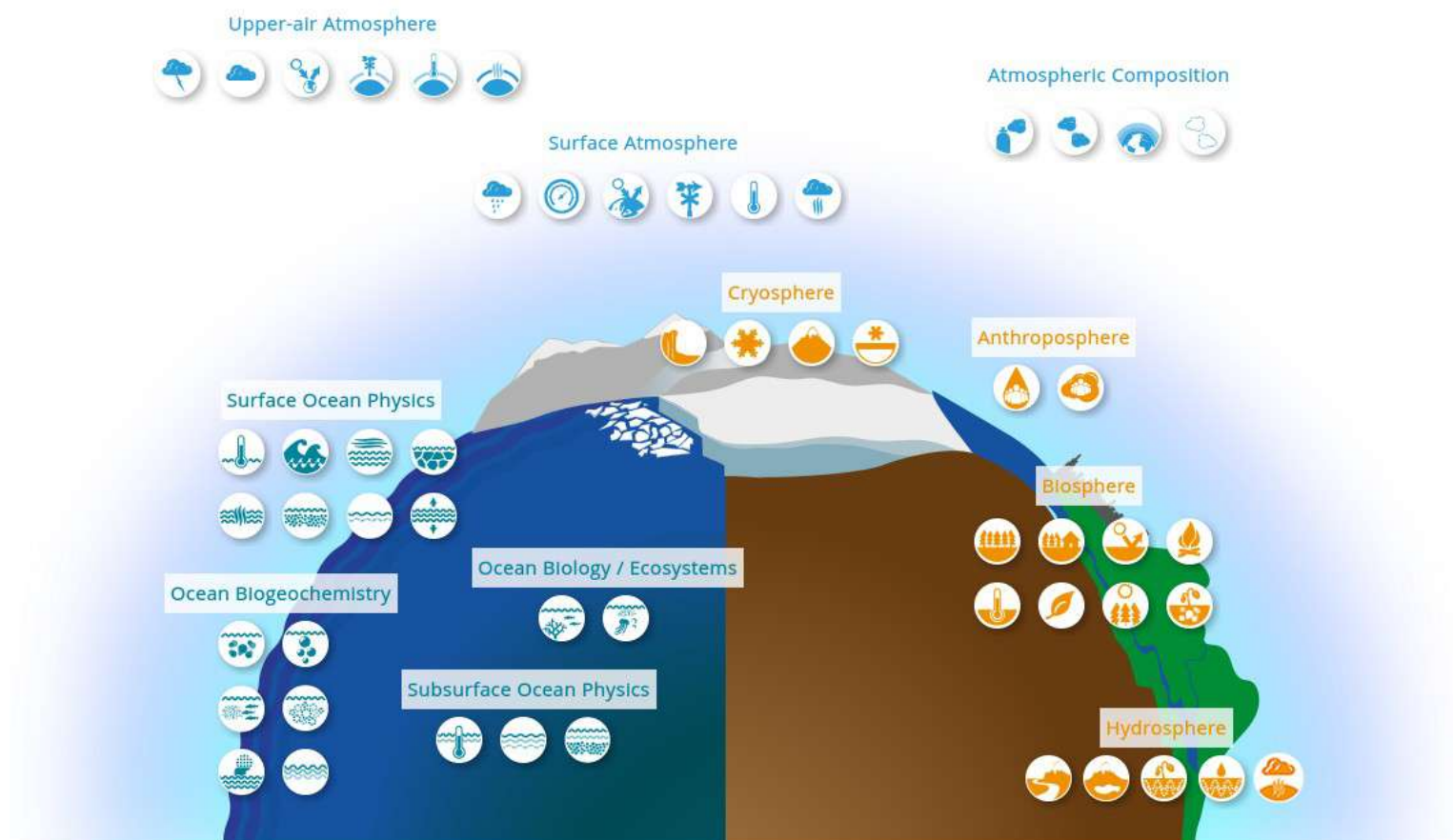
CEOS : Commitee on Earth Observation Satellites (ceos.org)

Mission: CEOS ensures international coordination of civil space-based Earth observation programs and promotes exchange of data to optimize societal benefit and inform decision making for securing a prosperous and sustainable future for humankind.

Instrument	Agency	Missions	Status	Type	Measurements & applications	Technical characteristics
SWIM Surface Waves Investigation and Monitoring	CNES	Current: CFOSAT Future: - Complete: -	Operational	Scatterometers	Ku-band Real-aperture radar (RAR) system, multi-incidence beams(0-10°) and azimuth scanning. Measurement of 2D ocean waves spectrum	Waveband: Ku-band <i>Ku-Band</i> Spatial resolution: 50x50km on 2D spectra Swath width: 140 km Accuracy: accuracy for wave estimates: minimum detectable wavelength of about 70 m, maximum detectable wavelength about 500m, accuracy in wave propagation direction of about 15°, accuracy in wavelength of 10 to 20%, accuracy in significant wave height of 10% or better than 40-50 cm (TBC) Data Access: Constrained Access Data Format: netcdf

Enrichissement des métadonnées

Essential Climate Variables



Enrichissement des métadonnées

Essential Climate Variables

Atmosphere 	♦ Aerosols ♦ Atmospheric Humidity Fields ♦ Atmospheric Temperature Fields ♦ Atmospheric Winds ♦ Cloud particle properties and profile ♦ Cloud type, amount and cloud top temperature	♦ Lightning Detection ♦ Liquid water and precipitation rate ♦ Ozone ♦ Radiation budget ♦ Trace gases (excluding ozone)
Land 	♦ Albedo and reflectance ♦ Inland Waters ♦ Landscape topography ♦ Multi-purpose imagery (land)	♦ Soil moisture ♦ Surface temperature (land) ♦ Vegetation
Ocean 	♦ Multi-purpose Imagery (ocean) ♦ Ocean colour/biology ♦ Ocean Salinity ♦ Ocean surface winds	♦ Ocean topography/currents ♦ Ocean wave height and spectrum ♦ Surface temperature (ocean)
Snow and Ice 	♦ Ice sheet topography ♦ Sea Ice cover, edge and thickness ♦ Snow cover, edge and depth	
Gravity and Magnetic Fields 	♦ Gravity, Magnetic and Geodynamic measurements	

Enrichissement des métadonnées

Home / Essential Climate Variables / Sea Level



Download shortened print version of ECV factsheet (pdf) [here](#).

[Data Sources](#)

[ECV Products and Requirements](#)

Sea Level



Sea Level is one of the primary indicators of global climate change. Change in the global mean sea level provides a measure of the net change in ocean mass due to melting of glaciers and ice sheets, and net change in ocean volume due to thermal expansion. Sea level observations characterize inter-seasonal variability such as ENSO. On the regional scales, changes in sea level can be far larger than the globally averaged value due to changes in temperature, salinity and circulation. Along many continental margins vertical land displacement associated with crustal adjustments to past and current land ice melt also cause regional variations in apparent sea level independent of the ocean. Coastal sea level change is a major driver of societal impacts.

Domain:	Ocean
Subdomain:	Physical
Scientific Area:	Physical Properties
Product:	Regional Mean Sea Level



