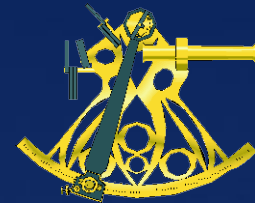




Sextant

French Spatial Data Infrastructure for Marine Environments



IMDIS 2013

Session 3 – Data Services in ocean science

Lucca (Italia), September 23-25, 2013

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ifremer

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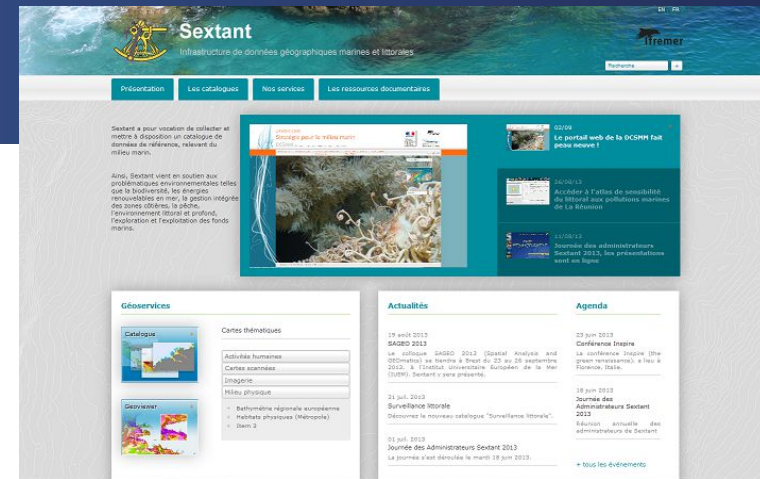
Sextant Web portal

➤ Sextant web portal interface

➤ <http://www.ifremer.fr/sextant>

➤ Objectives

- Manage and share geographical marine information data sets, in order to support marine studies and decision making
- Make available vector and raster spatial data produced by Ifremer and its partners
- Web GIS providing discovery, viewing and download online services
- Designed according to the European INSPIRE directive for interoperability and according to the OGC and ISO TC 211 standards



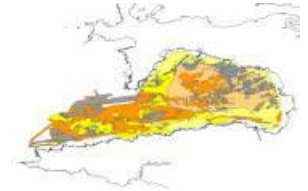
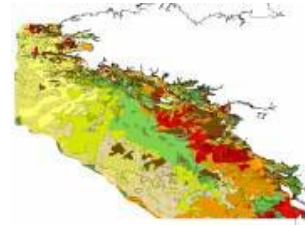


Multi thematic data holdings

➤ Agregated and finalised data products

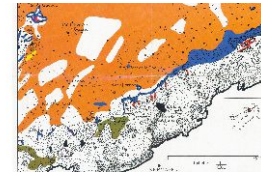
➤ Environment

- Water quality (coastal networks)
- Marine habitats
- Aquaculture



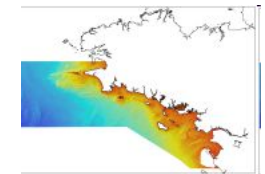
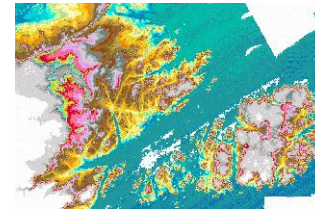
➤ Halieutics

- Fishing activities
- Resources
- Economical aspects



➤ Geoscience

- Bathymetry
- Sedimentology
- Acoustic imagery (sonar)



➤ Ocean physics

- Hydrodynamics (temperature, salinity, currents)

➤ Historic data

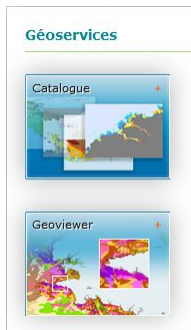
- Archive photos and historic habitats maps



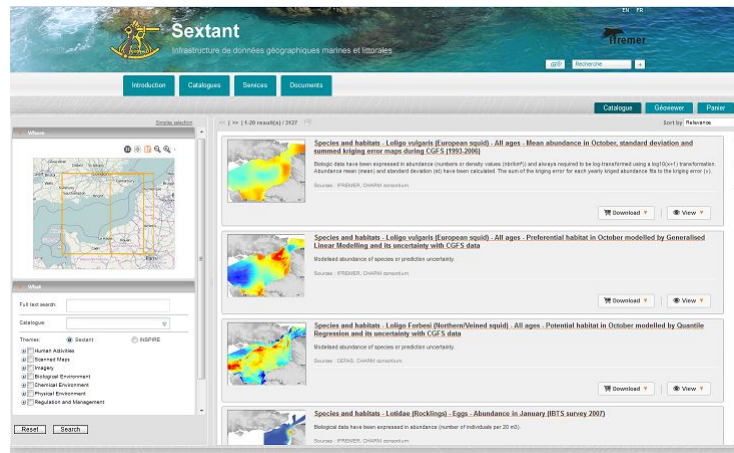


Sextant : the web services functions

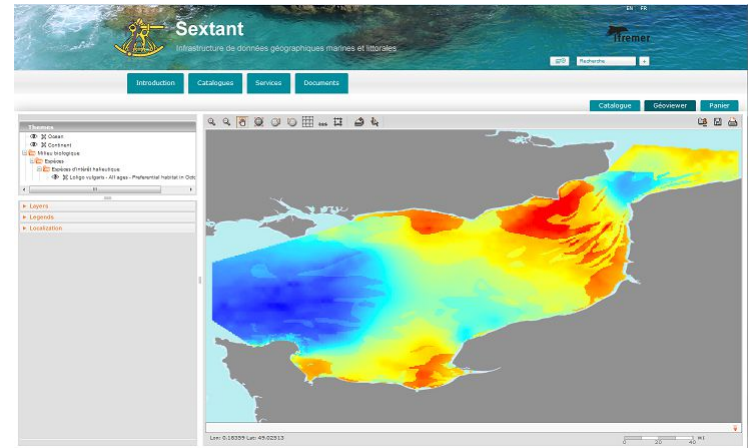
From the editorial page, you can access the main functions of Sextant



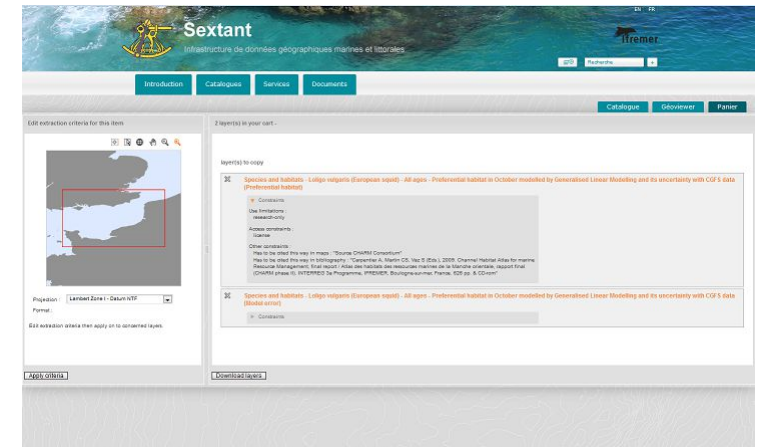
Discovery Services The Metadata Catalogue



View Services The Geoviewer



Download Services The Basket



Sextant : the metadata catalogue



- Sextant is organised into thematic catalogues:
 - They bring together data sets related to scientist departments, or projects, or geographical areas
 - One metadata can be associated to many catalogues
 - Each catalogue can have its own CSW address
- The thematic catalogues warrant:
 - A users rights management associated to the data
 - A secured distribution of the information
 - And give the choice of a website to present the associated project

Sextant : the metadata catalogue



GeoNetwork
OpenSource

PostgreSQL

➤ Catalogue user's interface

Criteria of search

Results page

- More than 3000 public metadata on-line describing more than 5000 geographical information layers

Sextant : the metadata catalogue



Simple selection

Where

What

Full text search:

Catalogue:

Themes: Sextant INSPIRE

Human Activities

Scanned Maps

Imagery

Biological Environment

Chemical Environment

Physical Environment

Regulation and Management

Who

Companies:

When

Begin date:

End date:

- You can choose many different criteria to search a metadata
 - Where : to search a metadata according to its localization
 - What : to search a metadata according to its content
 - Full-text search
 - ✓ All the words in the metadata are taking into account
 - Catalogue
 - ✓ You can choose one or more thematic catalogue
 - Themes
 - ✓ You can select one or more themes in the checkboxes
 - Who : to search a metadata according to its producers
 - **When** : to search a metadata according to its date

Sextant : the metadata catalogue



Search results

Simple selection

< | >> | 1-20 result(s) / 1332 | 43

Sort by Relevance

Where

What

Full text search:

Catalogue: ATLAS_CHARM

Themes: Sextant INSPIRE

Who

Companies:

When

Reset Search

Species and habitats - Merlangius merlangus (Whiting) - Larvae Stage 3 - Preferential habitat in April/May modelled by Generalised Linear Modelling and its uncertainty for Reise1, Reise2 and BCD surveys

Modelised abundance of larvae of several species or prediction uncertainty.

Sources : Université du Littoral Côte d'Opale, CHARM consortium

Download View

Species and habitats - Merlangius merlangus (Whiting) - Larvae Stage 3 - Potential habitat in April/May modelled by Quantile Regression and its uncertainty for Reise1, Reise2 and BCD surveys

Modelised abundance of larvae stages of several species or prediction uncertainty.

Sources : Université du Littoral Côte d'Opale, CHARM consortium

Download View

Species and habitats - Merlangius merlangus (Whiting) - Nurseries British coasts - Multi-annual abundance in September Kriging error map

Abundance of several species in coastal nurseries along british coasts. Kriging error (v) resulting from the interpolation of these data was mapped.

Sources : CEFAS, CHARM consortium

Download View

Species and habitats - Merlangius merlangus - Immature - Potential habitat in July modelled by Quantile Regression and its uncertainty with BTS data

Modelised abundance of species or prediction uncertainty.

Sources : CEFAS, CHARM consortium

Download View

Sextant : the metadata catalogue



Search results : metadata display

The screenshot displays the Sextant metadata catalogue interface. The main content area shows a search result for the dataset: "Species and habitats - Merlangius merlangus (Whiting) - Larvae Stage 3 - Preferential habitat in April/May modelled by Generalised Linear Modelling and its uncertainty for Reise1, Reise2 and BCD surveys". The interface includes a sidebar with navigation options like "Where", "What", "Who", and "When", and a "Reset" button. The main content area is divided into sections: "Essential metadata" and "Full metadata". The "Full metadata" section is expanded, showing a table of metadata fields and their values.

Identification info	
Title	Species and habitats - Merlangius merlangus (Whiting) - Larvae Stage 3 - Preferential habitat in April/May modelled by Generalised Linear Modelling and its uncertainty for Reise1, Reise2 and BCD surveys
Alternate title	BCD-Reise_species_model
Alternate title	CHARM_LIMALIM_LARV3_GLM
Date	2009-12-31T00:00:00
Date type	Publication: Date identifies when the resource was issued
Code	CHARM_MERNMER_LARV3_GLM_MOD_ERR_R
Presentation form	Digital map: Map represented in raster or vector form
Other citation details	Source CHARM Consortium
Abstract	Modelised abundance of larval stages of several species or prediction uncertainty.
Credit	Université du Littoral Côte d'Opale
Credit	CHARM consortium
Status	Completed: Production of the data has been completed

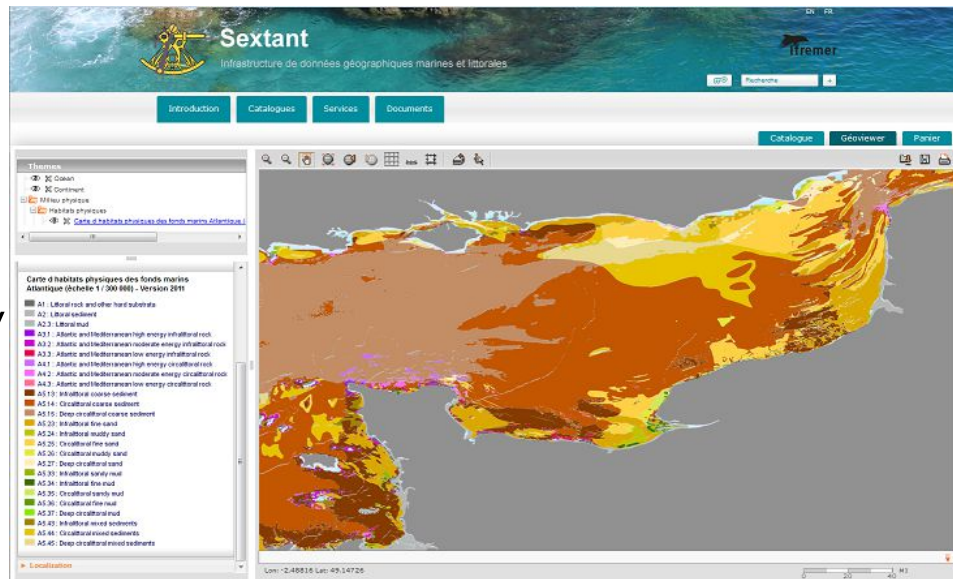
Point of contact

Individual name	Philippe Koubbi	Electronic mail address	koubbi@obs-vlfr.fr
Organisation name	UPMC Univ Paris 06, UMR 7093, Laboratoire d'Océanographie de Villefranche		
Role	Point of contact: Party who can be contacted for acquiring knowledge about or acquisition of the resource		

Sextant : the Geoviewer



- The Web GIS interface allows end-users
 - to create maps including several layers from internal and external sources
 - the portal access to local and remote OGC services
 - to consult and explore data
 - Navigation, zoom tools
 - Query a layer
 - Print the map in PDF file
 - to manage layer display
 - Layer order
 - Transparency
 - Symbology (grid data)



Sextant : the Geoviewer



Sextant: the French marine spatial data infrastructure

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 language options (EN, FR). A search bar with the text "Recherche" and a plus sign is also present. Below the header are navigation tabs for "Introduction", "Catalogues", "Services", and "Documents". On the right side, there are additional tabs for "Catalogue", "Géoviewer", and "Panier".

The main content area is divided into a left sidebar and a central map. The sidebar contains a "Themes" section with a tree view of categories like "Milieu physique", "Habitats physiques", and "Milieu biologique". Below this is a "Layers" section and a "Legends" section. The "Legends" section is highlighted with a red border and contains two legends: one for "Ocean" showing a depth scale from 0m to -10000m, and another for "Continent" showing a grey color. Below these is a detailed legend for the "Carte d habitats physiques des fonds marins Atlantique (échelle 1 / 300 000) - Version 2011", listing various habitat types with corresponding color swatches.

The central map displays a bathymetric map of the Atlantic Ocean, with colors ranging from blue (shallow) to red and yellow (deep). The map includes a toolbar with various navigation and tool icons. At the bottom of the map, the coordinates "Lon: -1.19809 Lat: 49.01749" are shown, along with a scale bar in meters (0, 20, 40 M).

Sextant : the Geoviewer



Sextant: the French marine spatial data infrastructure

The screenshot displays the Sextant web application interface. At the top, the header includes the Sextant logo, the text "Sextant Infrastructure de données géographiques marines et littorales", and the Ifremer logo. Navigation tabs for "Introduction", "Catalogues", "Services", and "Documents" are visible. A search bar with the text "Recherche" and a plus sign is also present.

The main content area is divided into several sections:

- Navigation tools:** A toolbar with various icons for map navigation, including zoom, pan, and layer management.
- Layers management:** A sidebar on the left showing a tree view of themes and layers. The selected layer is "Carte d habitats physiques des fonds marins Atlantique (échelle 1 / 300 000) - Version 2011". Below the layer list, there are controls for opacity (set to 100%), style, and a legend.
- WMS services access:** A dialog box titled "Add a WMS layer" is open, showing a list of WMS servers. The "Marine Regions" server is selected. The dialog includes fields for "Choose a WMS server" and "Enter the URL of a WMS server".

The main map area displays a colorful bathymetric map of the Atlantic Ocean floor. The bottom of the interface shows the coordinates "Lon: -1.26298 Lat: 49.75032" and a scale bar.

Sextant Web portal – The Basket



➤ Choose the extraction parameters

➤ Formats

- Vector (Shapefile, MapInfo, MIF/MID, GML/ KML)
- Raster (Ecw, GeoTiff, Jpeg)

➤ Coordinate system (WGS84, ETRS89...)

➤ Geographical extraction extent

➤ Read and agree the usage rules

➤ Reception of an email indicating that your extraction zip is ready to be downloaded

The screenshot displays the 'Edit extraction criteria for this item' interface. On the left, a map of Europe shows a red rectangular extraction extent over the Mediterranean and Atlantic coasts. Below the map, the 'Projection' is set to 'Lambert Zone I - Datum NTF'. The 'Format' is set to 'raster' (GeoTiff) and 'vector' (ESRI Shapefile). A button labeled 'Apply criteria' is visible at the bottom left.

On the right, the '6 layer(s) in your cart' section shows a list of layers with their respective extraction criteria configuration options:

- Raster layer(s):**
 - Species and habitats - *Trisopterus luscus* - All ages - Multi-annual abundance Kriging error maps during BTS (1989 - 2006) ()
 - ▶ Constraints
 - ▶ Edit extraction criteria for this item
- Vector layer(s):**
 - Fishing activities - Fishing frequency (number of fishing trips) in 2006 for French vessels. Concern : netter, longliner, multipurpose
 - ▶ Constraints
 - ▶ Edit extraction criteria for this item
 - CHARM 1 and 2 official zones and CHARM 3 suggested zone (CHARM 1)
 - ▶ Constraints
 - ▶ Edit extraction criteria for this item
 - CHARM 1 and 2 official zones and CHARM 3 suggested zone (CHARM 2)
 - ▶ Constraints
 - ▶ Edit extraction criteria for this item

Buttons for 'Download layers' and 'Apply criteria' are located at the bottom of the interface.

Define extraction criteria for all layers

Define extraction criteria for each layer

Interoperability and Inspire



➤ Metadata normalized

- ISO 19115 and ISO 19139 standards compliant
- OGC standard – Catalogue Services Web (CSW 2.0.2)
 - <http://www.ifremer.fr/geonetwork/srv/fre/csw?SERVICE=CSW&REQUEST=GetCapabilities&VERSION=2.0.2>

➤ Viewing data

- OGC standard - Web Map Service (WMS)
 - <http://www.ifremer.fr/services/biologie>
 - <http://www.ifremer.fr/services/geologie>
 - http://www.ifremer.fr/services/oceanographie_physique



➤ Data extraction

- OGC standard - Web Feature Service (WFS)
 - <http://www.ifremer.fr/services/wfs1>
- OGC standard - Web Coverage Service (WCS)
 - <http://www.ifremer.fr/services/wcs1>



Interoperability and Inspire



- Sextant harvesting, from the National Geocatalogue

The screenshot displays the Sextant web interface with search results for benthic habitats. The interface includes a search bar, a map view, and a list of results.

Recherche simplifiée

Où:

Quoi:

Recherche libre:

Catalogue: **REBENT**

Thèmes: Sextant INSPIRE

Cartes scannées
 Imagerie
 Milieu biologique
 Milieu physique

Qui:

Quand:

1-20 resultat(s) / 67

Trier par: Titre

Carte des habitats benthiques du secteur de l'archipel des Glénan (REBENT, 2006) à une échelle comprise entre le 1/5000 et le 1/10000 sous forme de polygones

Cette carte des habitats benthiques de l'archipel des Glénan est le résultat du traitement, de l'analyse et de l'agrégation de données d'auteurs et d'organismes multiples : M. Le Hir, S. Chauvaud, G. Robert, du bureau d'études Télédétection et Biologie Marine (TBM) en 2005, A. Ehrhold, A. Blanchet, D. Hamon de l'Ifremer en 2006, CEVA en 2004 et...

Sources : Rebent

[Visualiser](#)

Carte des habitats benthiques du secteur de Saint-Brieuc (multisource REBENT, 2006) - Echelle : 1/10000 à 1/25000

Cette carte des habitats benthiques du secteur de Saint-Brieuc est le résultat du traitement, de l'analyse et de l'agrégation de données d'auteurs et d'organismes multiples : P. Gros, en 1988, D. Hamon, en 1988 et 1996, C. Augris, en 1996, P. Le Mao en 2002, de l'Ifremer, données IGN de 1998. ORTHOLITTORALE 2000 In Vivo en 2001. Bonnot-Courtois, A. ...

Sources : Rebent

[Visualiser](#)

Carte des habitats benthiques du secteur des Abers Zone intertidale (multisource Rebent, 2010) - Echelle : 1 / 10 000

Cette carte des habitats benthiques du secteur des Abers a été réalisée dans le cadre du REseau de surveillance Benthique (REBENT). Elle a été élaborée à partir de l'orthophotographie littorale 2000, d'une image satellite SPOT-5, de données LIDAR, d'un MNT, du cadastre conchylicole et de données complémentaires provenant de travaux antérieurs....

Sources : Rebent

[Visualiser](#)

- A dedicated CSW for the Geonational Catalogue

Interoperability and Inspire



➤ Sextant harvesting, from the National Geocatalogue

Recherche simplifiée

Où

Quoi

Recherche libre:

Catalogue: REBENT*

Thèmes: Sextant INSPIRE

Cartes scannées
 Imagerie
 Milieu biologique
 Milieu physique

Qui

Quand

FR | EN | ES | DE

ACCUEIL
VOIR
RECHERCHER
CATALOGUER
SERVICES
PARTENAIRES
S'INFORMER

Visualiser ma carte
Ma sélection 0 données
Mes préférences

Résultats de la recherche

Mot(s)-clé(s) : **rebert** Nature de l'information : Tout le catalogue

Emprise (Long/Lat) : 38.180 (S), 54.758 (N), -7.957 (W), 14.015 (E)

Modifier ma recherche

Résultats : 6 à 10 sur 64 Triés par : Titre Résultats par page : 5 | 10 | 20 | 50

ifremer Web ISO OGC Serv CAT

Carte des habitats benthiques du secteur des Abers Zone intertidale (multisource Rebert, 2010) - Echelle : 1 / 10 000

Cette carte des habitats benthiques du secteur des Abers a été réalisée dans le cadre du Réseau de surveillance BENThique (REBENT). Elle a été élaborée à partir de l'orthophotographie littorale 2000, d'une image satellite SPOT-5, de données LIDAR, d'un MNT, du cadastre conchylicole et de données complémentaires provenant de travaux antérieurs. Les données issues de campagnes de terrain constituent

Catalogue de provenance : Sextant
 Propriétaire(s) de la donnée : ifremer

[Voir fiche](#) [Prévisualiser](#) [Télécharger](#) [Site Web](#)

ifremer Web ISO OGC Serv CAT

Carte des habitats benthiques du secteur de l'archipel des Glénan (REBENT, 2006) à une échelle comprise entre le 1/5000 et le 1/10000 sous forme de polygones

Cette carte des habitats benthiques de l'archipel des Glénan est le résultat du traitement, de l'analyse et de l'agrégation de données d'auteurs et d'organismes multiples : - M. Le Hir, S. Chauvaud, G. Robert, du bureau d'études Télédétection et Biologie Marine (TBM) en 2005, - A. Ehrhold, A. Blanchet, D. Hamon de Ifremer en 2006, - CEVA en 2004 et 2005 (zone rocheuse subtidale), - I. Peuziat et

Catalogue de provenance : Sextant
 Propriétaire(s) de la donnée : ifremer

[Voir fiche](#) [Prévisualiser](#) [Télécharger](#) [Site Web](#)

Carte des habitats benthiques du secteur du Croisic - zone intertidale (multisource Rebert, 2010) - Echelle 1/10000

Cette cartographie des habitats benthiques du secteur du Croisic est réalisée dans le cadre du Réseau de surveillance BENThique (REBENT). Elle a été élaborée à partir de l'orthophotographie littorale 2000, de campagnes de validation de terrain entre 2002 et 2004 et de données Lidar acquises en 2002. L'analyse combinée de ces données permet d'établir une cartographie correspondant à la répartition

ifremer Web ISO OGC Serv CAT

Précisez votre recherche

Catégories

- Flore et faune (57)
- Ressources et gestion de l'environnement (7)
- Océans (7)
- Géosciences (1)

Thèmes INSPIRE

- Habitats et biotopes (55)
- Géologie (1)
- Répartition des espèces (1)

Résolution spatiale

- 1/10000 (15)
- 1/50000 (10)
- 1/100000 (9)
- 1/5000 (8)
- 1/25000 (5)
- 1/20000 (3)
- 1/250000 (2)
- 1/650000 (2)
- 1/300000 (2)
- 1/14400 (1)

Type de représentation

- Vecteur (43)
- Raster (18)

Légende

- Web** Existence d'un site web
- ISO** Métadonnées conformes à l'ISO 19139
- OGC** Données conformes aux normes d'échanges internationales
- Serv** Existence de services associés (téléchargement, ...)
- CAT** Métadonnées provenant du moissonnage d'un catalogue



Interoperability and Inspire



➤ ... to the European Inspire Catalogue

Contact | Search | Legal notice

English



INSPIRE GEOPORTAL

Enhancing access to European spatial data

EUROPEAN COMMISSION > INSPIRE > INSPIRE GEOPORTAL > Discovery / Viewer

What's

Find a place in: Powered by GeoName

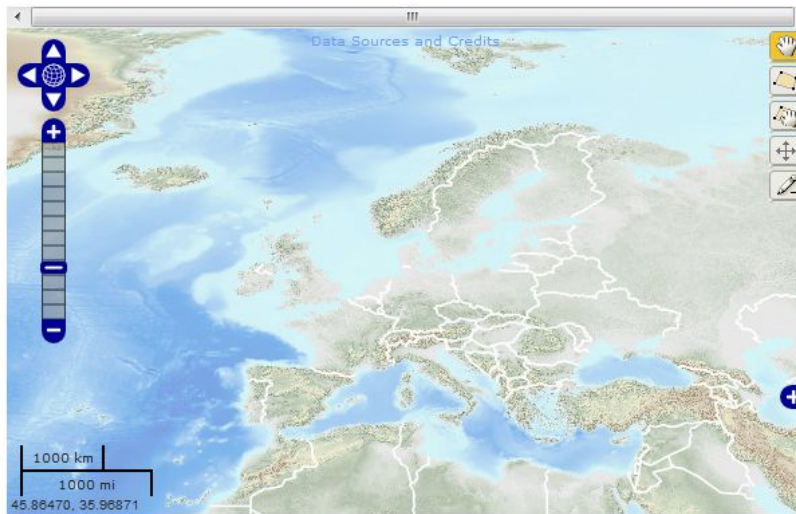
Search: Advanced Search

rebut

sorted by resource title A-Z

displaying 1 to 10 out of 66 results

< 1 2 3 ... 6 7 >



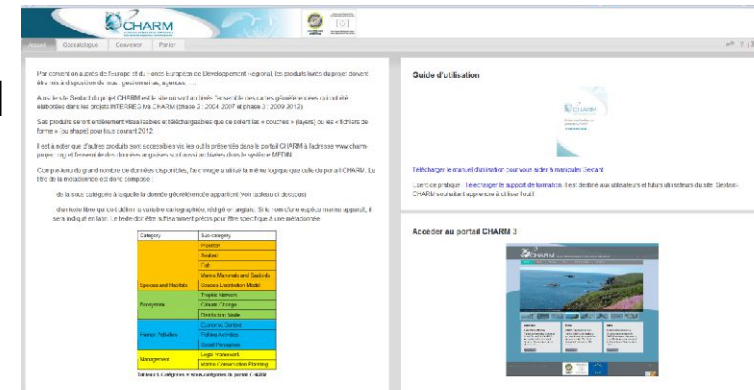
Active Layers: 0

- [dataset] Carte des habitats benthiques du secteur de l'archipel des Glénan (REBENT, 2006) à une échelle comprise entre le 1/5000 et le 1/10000 sous forme de polygones
 Cette carte des habitats benthiques de l'archipel des Glénan ...[\(show more\)](#)
- [dataset] Carte des habitats benthiques du secteur des Abers Zone intertidale (multisource Rebut, 2010) - Echelle : 1 / 10 000
 Cette carte des habitats benthiques du secteur des Abers a é ...[\(show more\)](#)
- [dataset] Carte des habitats benthiques du secteur de Saint-Brieuc (multisource REBENT, 2006) - Echelle : 1/10000 à 1/25000
 Cette carte des habitats benthiques du secteur de Saint-Brie ...[\(show more\)](#)
- [dataset] Carte des habitats benthiques du secteur du Croisic - zone intertidale (multisource Rebut, 2010) - Echelle 1/10000
 Cette cartographie des habitats benthiques du secteur du Cro ...[\(show more\)](#)
- [dataset] Carte des habitats benthiques du secteur Quiberon (source : Ehrhold A., Hamon D. et al., 2010) - Echelle : 1/2000 à 1/10000
 Cette carte des peuplements benthiques du secteur Quiberon e ...[\(show more\)](#)

Sextant into Interreg projects



- CHARM (CHannel integrated Approach for marine Resource Management)
 - The CHARM project offers a status report of the Channel ecosystem and a range of tools based on scientific knowledge for the sustainable management of living marine resources.
 - Through a thematic catalogue and a personalized webportal, the whole set of data is made accessible to managers and any stakeholders.
 - 1300 metadata describing layers related to benthic habitats, fisheries resources and environment
 - one CSW url and one WMS service, which allow interoperability with the MEDIN portal in UK



- The CHARM project has been selected within the scope of the INTERREG IV A France (Channel) – England cross-border European cooperation programme, co-financed by the ERDF.

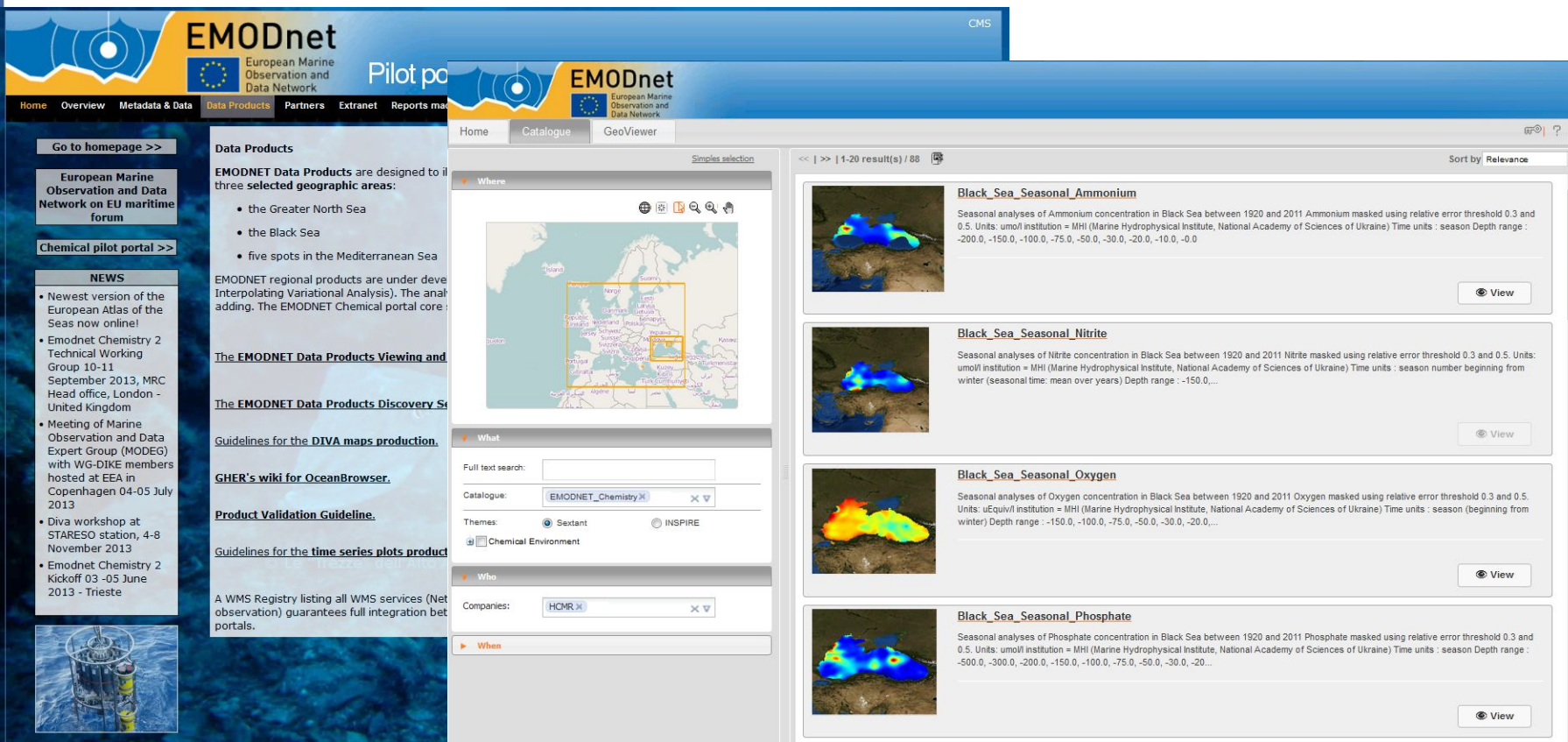
Sextant into Interreg projects



- PANACHE (Protected Area Network Across the Channel) and VALMER (Valuing ecosystem services in the western Channel)
 - Together both projects will focus on better management, sustainable use and protection of the Channel marine area.
 - They will use specially the data available from CHARM.
 - The Web GIS tool will access both Sextant and MEDIN catalogues through a unique web portal (in progress).
- The PANACHE and VALMER projects have been selected within the scope of the INTERREG IV A France (Channel) – England cross-border European cooperation programme, co-financed by the ERDF.

Sextant into European projects

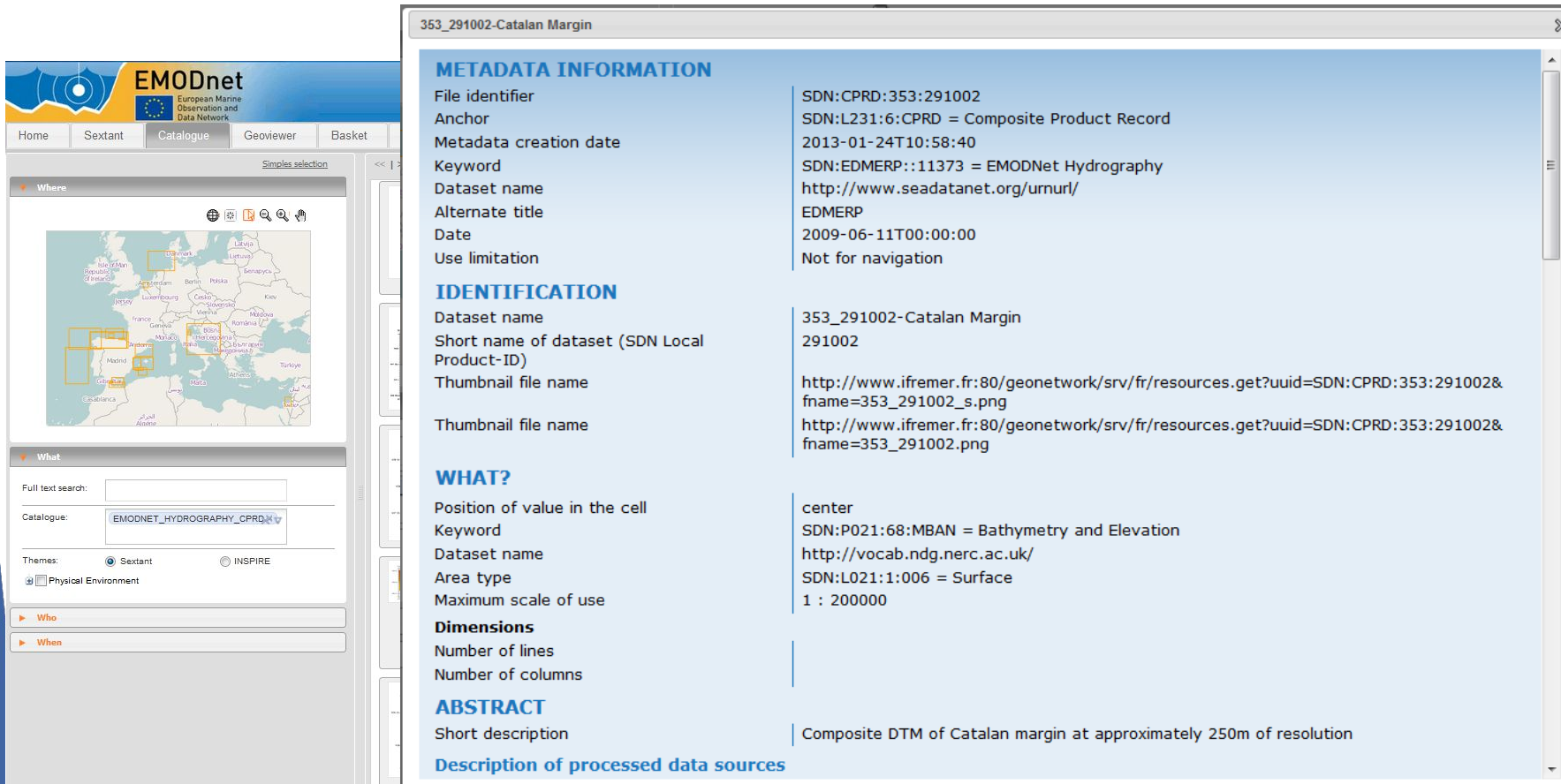
- A catalogue data products for Emodnet Chemistry
 - 90 metadata describing the chemical characteristics of the water column
 - <http://www.emodnet-chemistry.eu/portal/portal/emodnet/Data+Products>
 - http://www.ifremer.fr/sextant/en/web/emodnet_chemistry



The screenshot displays the EMODnet website interface. The top navigation bar includes 'Home', 'Overview', 'Metadata & Data', 'Data Products', 'Partners', 'Extranet', and 'Reports'. The main content area is titled 'Data Products' and lists three selected geographic areas: the Greater North Sea, the Black Sea, and five spots in the Mediterranean Sea. Below this, there are sections for 'The EMODNET Data Products Viewing and Discovery', 'Guidelines for the DIVA maps production', 'GHER's wiki for OceanBrowser', 'Product Validation Guideline', and 'Guidelines for the time series plots product'. A search bar is visible with 'EMODNET_Chemistry' entered in the 'Catalogue' field. The 'Who' section shows 'HCMR' as the company. On the right, a list of products is shown, including 'Black Sea Seasonal Ammonium', 'Black Sea Seasonal Nitrite', 'Black Sea Seasonal Oxygen', and 'Black Sea Seasonal Phosphate'. Each product entry includes a small map visualization and a 'View' button.

Sextant into European projects

- A catalogue data products for Emodnet Hydrography CPRD
 - 35 metadata describing bathymetric composite products, using a personalized template and the SeaDataNet metadata profile
 - http://www.ifremer.fr/sextant/en/web/emodnet_hydrography_cprd

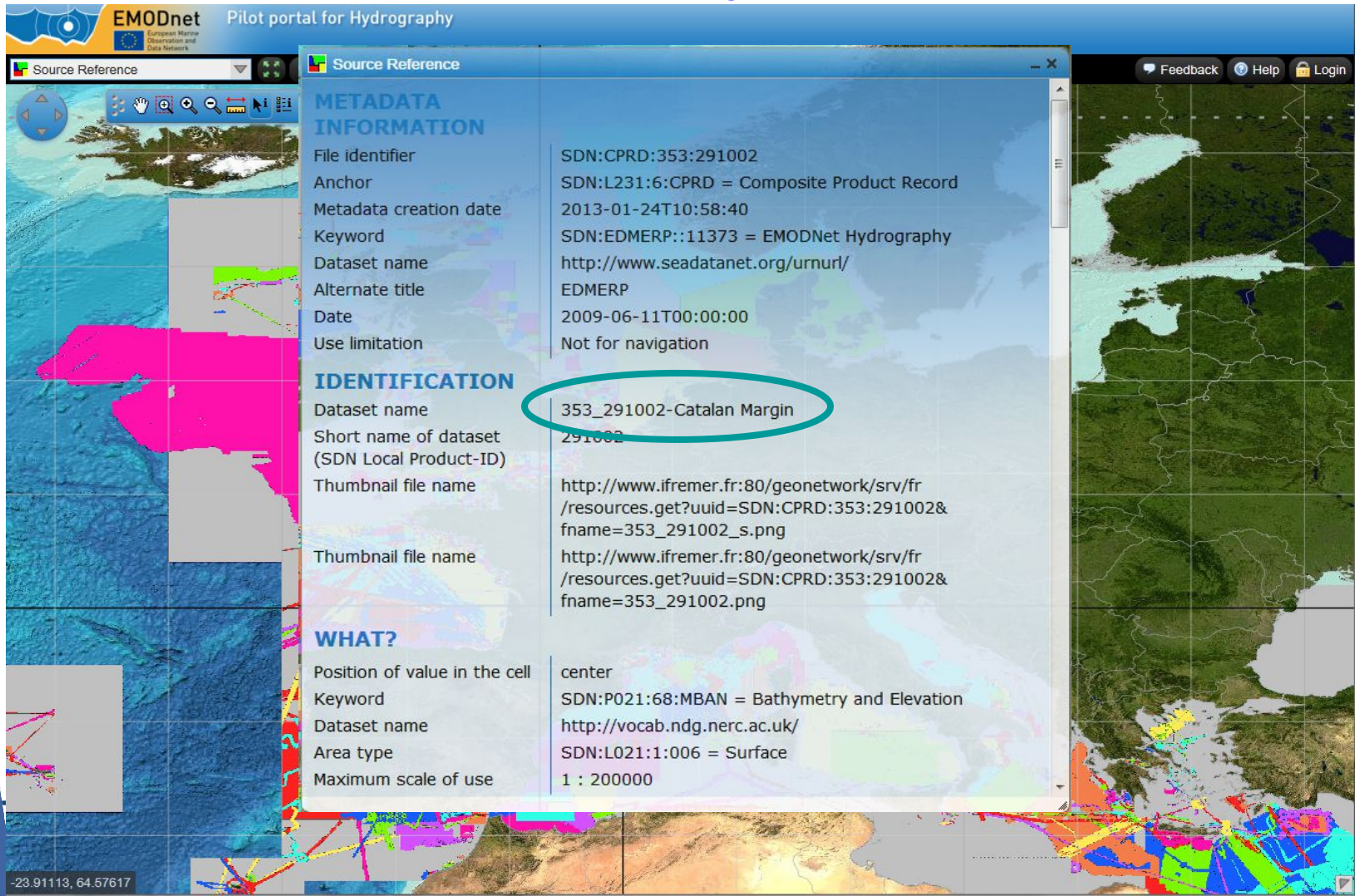


The screenshot displays the Sextant web application interface. On the left, a map of Europe shows several orange rectangular regions of interest. The main content area is titled "353_291002-Catalan Margin" and contains the following metadata information:

METADATA INFORMATION	
File identifier	SDN:CPRD:353:291002
Anchor	SDN:L231:6:CPRD = Composite Product Record
Metadata creation date	2013-01-24T10:58:40
Keyword	SDN:EDMERP::11373 = EMODNet Hydrography
Dataset name	http://www.seadatanet.org/urnurl/
Alternate title	EDMERP
Date	2009-06-11T00:00:00
Use limitation	Not for navigation
IDENTIFICATION	
Dataset name	353_291002-Catalan Margin
Short name of dataset (SDN Local Product-ID)	291002
Thumbnail file name	http://www.ifremer.fr:80/geonetwork/srv/fr/resources.get?uuid=SDN:CPRD:353:291002&fname=353_291002_s.png
Thumbnail file name	http://www.ifremer.fr:80/geonetwork/srv/fr/resources.get?uuid=SDN:CPRD:353:291002&fname=353_291002.png
WHAT?	
Position of value in the cell	center
Keyword	SDN:P021:68:MBAN = Bathymetry and Elevation
Dataset name	http://vocab.ndg.nerc.ac.uk/
Area type	SDN:L021:1:006 = Surface
Maximum scale of use	1 : 200000
Dimensions	
Number of lines	
Number of columns	
ABSTRACT	
Short description	Composite DTM of Catalan margin at approximately 250m of resolution
Description of processed data sources	

Sextant into European projects

- A catalogue data products for Emodnet Hydrography CPRD
 - <http://www.emodnet-hydrography.eu/>



The screenshot shows the EMODnet Pilot portal for Hydrography. A 'Source Reference' window is open, displaying metadata for a dataset. The window is divided into three sections: METADATA INFORMATION, IDENTIFICATION, and WHAT?. The 'IDENTIFICATION' section contains the following information:

Field	Value
Dataset name	353_291002-Catalan Margin
Short name of dataset (SDN Local Product-ID)	291002
Thumbnail file name	http://www.ifremer.fr:80/geonetwork/srv/fr/resources.get?uuid=SDN:CPRD:353:291002&fname=353_291002_s.png
Thumbnail file name	http://www.ifremer.fr:80/geonetwork/srv/fr/resources.get?uuid=SDN:CPRD:353:291002&fname=353_291002.png

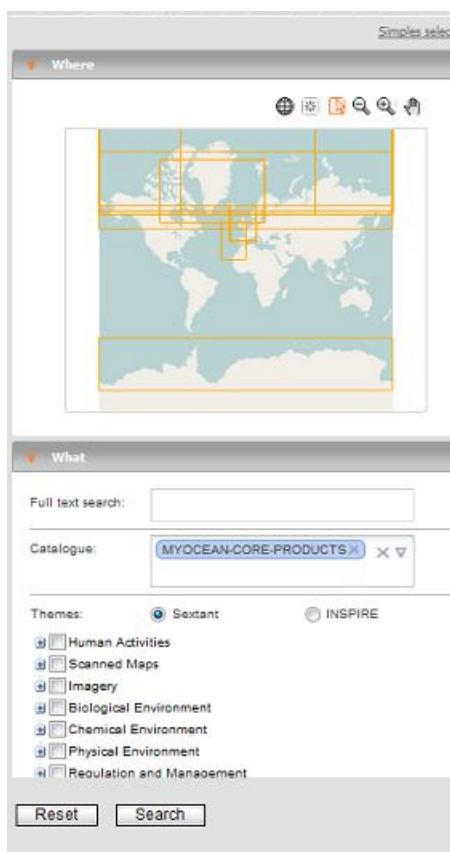
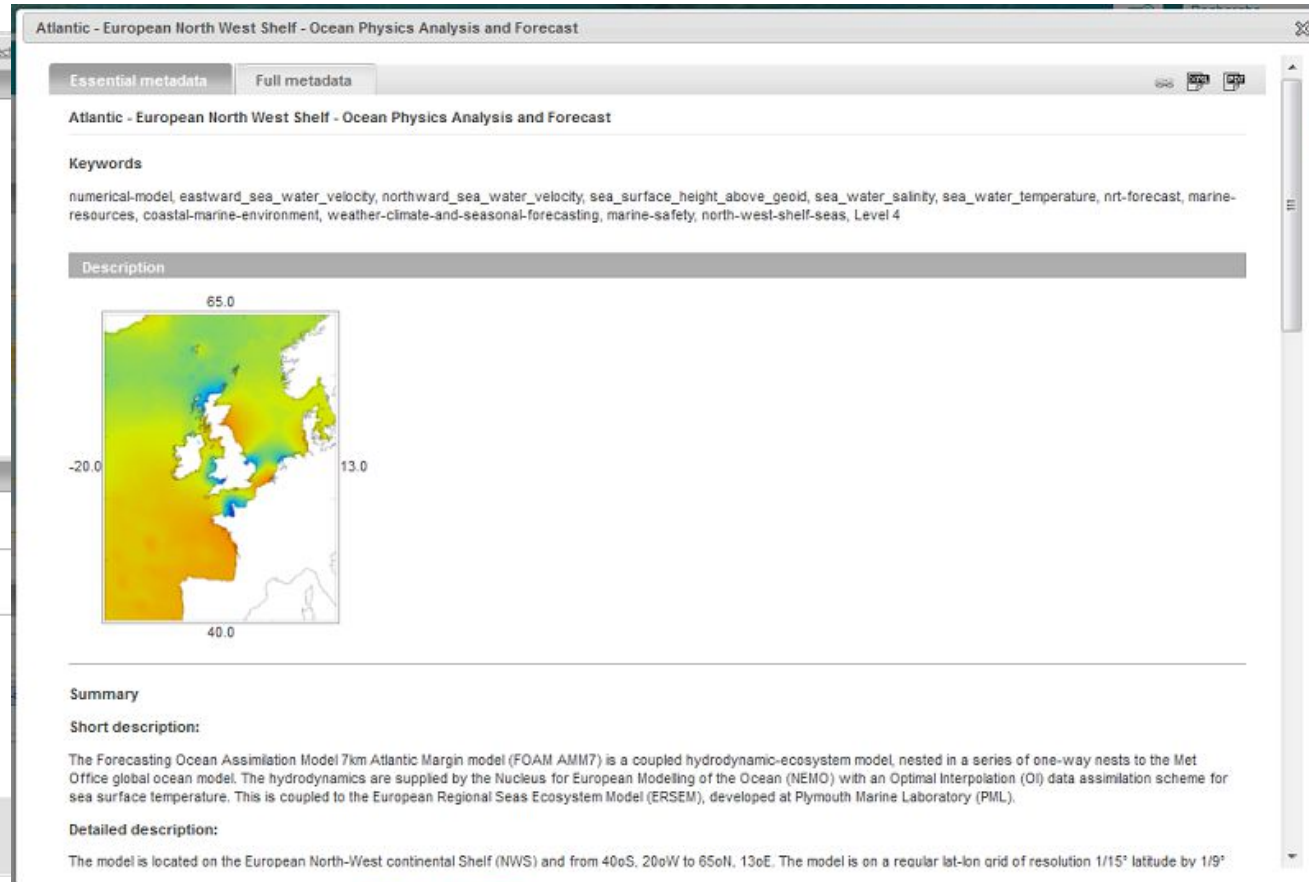
The 'WHAT?' section contains the following information:

Field	Value
Position of value in the cell	center
Keyword	SDN:P021:68:MBAN = Bathymetry and Elevation
Dataset name	http://vocab.ndg.nerc.ac.uk/
Area type	SDN:L021:1:006 = Surface
Maximum scale of use	1 : 200000

The background of the screenshot shows a map of the Mediterranean Sea with various data layers overlaid. The EMODnet logo and 'Pilot portal for Hydrography' are visible in the top left corner of the application window. The bottom left corner of the screenshot shows the coordinates -23.91113, 64.57617.

Sextant into European projects

- To manage the metadata for MyOcean data products
 - using common vocabulary lists and metadata template

Atlantic - European North West Shelf - Ocean Physics Analysis and Forecast

Essential metadata | **Full metadata**

Atlantic - European North West Shelf - Ocean Physics Analysis and Forecast

Keywords

numerical-model, eastward_sea_water_velocity, northward_sea_water_velocity, sea_surface_height_above_geoid, sea_water_salinity, sea_water_temperature, nrt-forecast, marine-resources, coastal-marine-environment, weather-climate-and-seasonal-forecasting, marine-safety, north-west-shelf-seas, Level 4

Description

65.0

-20.0

40.0

13.0

Summary

Short description:

The Forecasting Ocean Assimilation Model 7km Atlantic Margin model (FOAM AMM7) is a coupled hydrodynamic-ecosystem model, nested in a series of one-way nests to the Met Office global ocean model. The hydrodynamics are supplied by the Nucleus for European Modelling of the Ocean (NEMO) with an Optimal Interpolation (OI) data assimilation scheme for sea surface temperature. This is coupled to the European Regional Seas Ecosystem Model (ERSEM), developed at Plymouth Marine Laboratory (PML).

Detailed description:

The model is located on the European North-West continental Shelf (NWS) and from 40oS, 20oW to 65oN, 13oE. The model is on a regular lat-lon grid of resolution 1/15° latitude by 1/9°

Sextant into European projects



- Using the MyOcean web portal to discover the metadata
 - <http://www.myocean.eu>

The screenshot displays the MyOcean web portal interface, which is designed for ocean monitoring and forecasting. The main header features the 'myOcean' logo and the text 'OCEAN MONITORING and FORECASTING Providing PRODUCTS and SERVICES for all marine applications.' A search bar is located in the top right corner.

The interface is divided into several sections:

- Navigation Menus:**
 - ABOUT US:** Includes links for 'MARITIME SAFETY' and 'MARINE RESOURCES'.
 - SERVICES:** Offers 'Catalogue of services', 'Register now!', 'Ask the service desk', and 'Technical FAQ'.
 - PRODUCTS:** Provides 'Access to catalogue', 'News Flash!', 'Product improvements', and 'Technical FAQ'.
 - NEWS & EVENTS:** Features 'FOCUS ON', 'PRODUCT SHOWCASE', and 'USER NEWSLETTER'.
 - EDUCATION:** Lists 'Observation', 'Modelling', and 'Ocean parameters'.
 - PRESS/EDITION CORNER:** Includes 'all corners'.
 - SCIENTIFIC PUBLICATIONS:** Includes 'all corners'.
- Product Catalogue:** A central section titled 'MYOCEAN INTERACTIVE' with a search mode selector (multi-criteria or full catalogue) and a note to register first. It lists 'Service commitments & licence' and provides a breadcrumb trail: 'Home > Products and services > Products > Access to catalogue > MyOcean interactive catalogue'.
- Data Product Listings:**
 - SST-EUR-SST-L3S-NRT-OBSERVATIONS-010-009-a:** Includes a satellite map of the Mediterranean and Black Seas. Description: 'EUROPEAN OCEAN- SEA SURFACE TEMPERATURE MULTI-SENSOR L3 OBSERVATIONS'. Details: 'SATELLITE-OBSERVATION, TEMPERATURE, NEAR-REAL-TIME, MEDITERRANEAN-SEA, BALTIC-SEA, BLACK-SEA, NORTH-WEST-SHELF-SEAS, IBERIAN-BISCAY-IRISH-SEAS'. Note: 'For The European Ocean- The L3 multi-sensor (supercollocated) product is built from bias-corrected L3 mono-sensor (collocated) products at the resolution 0.02 degrees. If the native collocated resolution is N and $N < 0.02$ the change (degradation) of resolution is done by averaging the best quality data. If $N > 0.02$ the collocated data are associated to the nearest neighbour without interpolation nor artificial increase of the resolution.'
 - NORTHWESTSHELF-ANALYSIS-FORECAST-PHYS-004-001-b:** Includes a map of the North West Shelf. Description: 'ATLANTIC - EUROPEAN NORTH WEST SHELF - OCEAN PHYSICS ANALYSIS AND FORECAST'. Details: 'NUMERICAL-MODEL, CURRENTS, SEA-LEVEL, SALINITY, TEMPERATURE, FORECAST, NEAR-REAL-TIME, NORTH-WEST-SHELF-SEAS'. Note: 'The Forecasting Ocean Assimilation Model 7km Atlantic Margin model (FOAM AMM7) is a coupled hydrodynamic-ecosystem model, nested in a series of one-way nests to the Met Office global ocean model. The hydrodynamics are supplied by the Nucleus for European Modelling of the Ocean (NEMO) with an Optimal Interpolation (OI) data assimilation scheme for sea surface temperature. This is coupled to the European Regional Seas Ecosystem Model (ERSEM), developed at Plymouth Marine Laboratory (PML).'
- Footer:** Includes the Copernicus logo, 'Site map | All rights reserved | FAQ', and the Ifremer logo.

Conclusion



Due to its interoperability, using the ISO standards and the OCG protocols, and its capacity to be adapted at many national and international profiles, using Seadatanet vocabulary lists,

Sextant becomes one of the major marine spatial data infrastructures used in national projects,

and also plays an important role for products management in European projects (ie the products catalogue).



Thank you for your attention

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