



PANACHE

Protected Area Network Across
the Channel Ecosystem

THE ENGLISH CHANNEL
one
ecosystem two
projects

FINAL CONFERENCE - MARCH 17th-18th 2015 - TORQUAY

Integrated data management



Dan Lear & Charly Griffiths (MBA)

Sonia Carrier (AAMP)

Catherine Satra La Bris (Ifremer)



Integrated Data Management

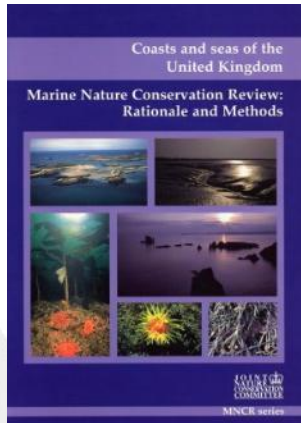
- ✧ **History**
- ✧ **UK and French approaches**
- ✧ **The wider perspective**
- ✧ **Challenges & Solutions**
- ✧ **The future**



466444424244434454543224336435525743464453232 | 232464233343445544343332464232 | 2323
446567 | 256466265 | 353263252502355254434426267322724522460 | 4434543 | 2655 | | | 42236565
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A Bit of History - 1997

The need for integrated data management was identified a long time ago...



Following the Marine Nature Conservation Review (MNCR) which started in 1987...

Marine Pollution Bulletin, Vol. 34, No. 2, pp. 74-77, 1997

[http://dx.doi.org/10.1016/S0025-326X\(96\)00140-3](http://dx.doi.org/10.1016/S0025-326X(96)00140-3)

“Marine environmental management requires investment to ensure more effective access to available data and information.”

A Bit of History - 2005

Marine Data and Information – Where to now?

Prof Mike Cowling

Glasgow Marine Technology Centre
University of Glasgow

Independent Member, IACMST
Chair, MEDAG

Recommendations included:

- Establishment of Marine Data and Information Partnership (MDIP)
- Identification of thematic Data Archive Centres (DACs)
- Creation of a central “portal” for marine data

A Bit of History - 2005

“there is an urgent need to establish a process to gather data together for the wider marine environment, both existing data and new data, to properly assess the status of benthic communities at a UK level.”

“Recommended the creation of the Marine Data and Information Partnership (MDIP) to:

- Establish a...framework for managing marine data and information: ‘capture once and use many times’
- Establish Data Archiving Centres
- Provide guidance on managing marine data ...including the development of standard protocols and procedures.”

<http://chartingprogress.defra.gov.uk/feeder/chartingprogress.pdf>

The screenshot displays the 'Charting Progress' website. At the top, the URL 'www.defra.gov.uk' is visible. The main heading is 'Charting Progress' with the subtitle 'An Integrated Assessment of the State of UK Seas'. Below this is a map of the United Kingdom and its surrounding waters, divided into seven numbered regional areas. A legend on the left of the map lists the regional areas and their corresponding colors. To the right of the map are three small images: an offshore oil rig, two dolphins, and a close-up of marine life. At the bottom of the page, there are logos for the Scottish Executive, the Department of the Environment (DOE), the Welsh Assembly Government, and Defra (Department for Environment, Food and Rural Affairs).

www.defra.gov.uk

Charting Progress

An Integrated Assessment of the State of UK Seas

Regional Areas

1. Northern North Sea
2. Southern North Sea
3. Eastern English Channel
4. Western English Channel, Celtic Seas and the Atlantic Ocean
5. Irish Sea and Celtic Seas
6. West of Scotland and the Hebrides
7. Scottish Continental Shelf

Legend:

- Blue: Depth
- Red: Regions in this chart
- Black: UK Continental Shelf

From: The main web site at www.chartingprogress.gov.uk and the chartingprogress.gov.uk website. The chartingprogress.gov.uk website is a Defra website. Defra website: www.defra.gov.uk

SCOTTISH EXECUTIVE

DOE
Department of the Environment

Welsh Assembly Government

defra
Department for Environment
Food and Rural Affairs

A Bit of History - 2005

DASSH set up from the successful MarLIN Seabed Data Access Programme to fill a gap in the existing thematic Data Centres



The screenshot shows the DASSH website homepage. At the top, there is a navigation bar with a home icon, the text 'DASSH', a search icon, 'Search Catalogues', a link icon, 'Links', an email icon, 'Contact', and a data icon, 'Data'. Below this is a purple header area containing the DASSH logo (a blue circular graphic with white dots) and the text 'DASSH The archive for marine species and habitats data'. A breadcrumb trail 'DASSH' is visible below the header. The main content area is divided into several sections: 1. A central banner titled 'The Archive for Marine Species and Habitats Data (DASSH)' featuring a photograph of yellow seaweed on a beach. Below the photo, it states 'DASSH is the UK Data Archive Centre for marine biodiversity data for both species and habitats.' 2. Three columns of text boxes: 'Submit Data' (describing data submission methods), 'Data Policy' (describing the UK's network of marine data archive centres), and 'Data Management' (describing data security and preservation). 3. A 'DASSH Partners' section with logos for MEDIN (marine environmental data & information network) and NBN (National Biodiversity Network). 4. A 'Quick Navigation' section with links: 'Top of this Page', 'Submit Data', 'Search Catalogues', 'Contact DASSH', and 'Data Access'. 5. A circular logo for 'THE MARINE BIOLOGICAL ASSOCIATION' with a seahorse and text 'Est. 1884' and 'Incorporated by Royal Charter 2013'. At the bottom, a blue URL 'www.dassh.ac.uk' is displayed with a blue underline.

DASSH

Search Catalogues Links Contact Data

DASSH
The archive for marine species and habitats data

DASSH

The Archive for Marine Species and Habitats Data (DASSH)



DASSH is the UK Data Archive Centre for marine biodiversity data for both species and habitats.

Submit Data
DASSH can accommodate a wide range of electronic data types and file formats, and data can be submitted by post (on suitable media), by email or by File Transfer Protocol (FTP).
Read more...

Data Policy
DASSH is part of the UK's network of marine data archive centres, and works in collaboration with MEDIN. DASSH aims to safeguard marine benthic survey data (past and future) and to make that data available as a national information resource.
Read more...

Data Management
DASSH manages data in a secure environment with a range of procedures in place to secure information from damage and unauthorised access and ensure that data quality and integrity is preserved.
Read more...

DASSH Partners



marine environmental data & information network



National Biodiversity Network

Quick Navigation

- Top of this Page
- Submit Data
- Search Catalogues
- Contact DASSH
- Data Access

THE MARINE BIOLOGICAL ASSOCIATION
Est. 1884
Incorporated by Royal Charter 2013

www.dassh.ac.uk

DASSH aims to safeguard data (past and future) and make that data available as a national information resource to support marine science and better stewardship of the marine environment. To that end, DASSH provides access to datasets via an on-line catalogue of both metadata and data via this Web site and the National Biodiversity Network

A Bit of History - 2008

MDIP + MEDAG =



“Measure once, use many times”

www.oceannet.org



MEDIN

- MEDIN is a collaborative and open partnership
- Working to reduce costs in sourcing, evaluating and preparing data
- Sponsors include government departments, research councils, environmental and conservation agencies, trading funds
- Wide public and private sector involvement (>30 active partners)



MEDIN

1. **DAC Network:** Framework of marine **data archive centres**.

- To provide secure long-term management of priority marine data sets, according to best practice standards.

2. **Standards:** Guidance for data and metadata.

- An agreed set of common standards for metadata, data format and content maintained and supported through implementation by partners.

3. **Web Portal:** Data search, other services and products

- Improved access to authoritative marine data held in this network, through a central (discovery) metadata search capability.

4. **Resource and Application Development**

- Specify user requirements, identify and implement solutions

5. **International Coordination**

- Links to global databases and initiatives



Data Archive Centres



British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

for seabed and sub-seabed geology, geophysics data



British Oceanographic Data Centre
NATURAL ENVIRONMENT RESEARCH COUNCIL

for water column oceanographic data



THE UNITED KINGDOM
HYDROGRAPHIC OFFICE

for bathymetry data



Met Office

for marine meteorological (metocean) data



DASSH The Archive for Marine
Species and Habitats Data

for flora, fauna and habitat data



Cefas

for commercial fisheries data

marinescotland
science



The Scottish
Government

for marine historic environment data



**ARCHAEOLOGY
DATA SERVICE**

Aussi à travers la Manche...



2001 – Sextant (intranet)

The screenshot shows the Sextant intranet website. At the top, there is a header with the Sextant logo (a golden sextant) and the text "Sextant Infrastructure de données géographiques marines et littorales". To the right is the Ifremer logo. Below the header is a navigation bar with four tabs: "Présentation", "Catalogues thématiques", "Services OGC", and "Ressources documentaires".

The main content area is divided into several sections:

- Textual Content:**
 - A paragraph: "Sextant a pour vocation de collecter et mettre à disposition un catalogue de données de référence, relevant du milieu marin."
 - Another paragraph: "Ainsi, Sextant vient en soutien aux problématiques environnementales telles que la biodiversité, les énergies renouvelables en mer, la gestion intégrée des zones côtières, la pêche, l'environnement littoral et profond, l'exploration et l'exploitation des fonds marins."
- Image Gallery:** A large image showing a close-up of a coral reef structure.
- News/Articles:** A list of three articles with dates and titles:
 - 28/02/14: "Du nouveau sur le portail 'Granulats Marins'"
 - 27/11/13: "Le site web Polmar La Réunion est en ligne"
 - 02/09/13: "Le portail web de la DCSMM fait peu neuve !"
- Géoservices:** A section with two sub-sections:
 - Catalogue:** A thumbnail image of a map.
 - Geoviewer:** A thumbnail image of a 3D map.
- Cartes thématiques à la une:** A list of "Cartes scannées":
 - + Cartes historiques de Joubin-Guérin
 - + Géomorphologie languedocienne
 - + Formations superf. - Platin du Grave
- Imagerie:** A list of images:
 - + Imagerie SPOT - Bretagne
 - + Imagerie acoustique - Capbreton
 - + Photos anciennes - Toulon 1922 et 1944
- Milieu physique:** A list of "Réseaux de surveillance".

The right side of the page features three columns:

- Actualités:** A list of news items:
 - 06 Mar 2014: "Programme Valor'IG" (Le programme et la participation aux journées Valor'IG à Nantes) with a "+ Lire" link.
 - 28 Feb 2014: "Le Géoviewer fait peu neuve" (L'interface du Géoviewer de Sextant a été complètement revue pour mieux répondre aux besoins des utilisateurs) with a "+ Lire" link.
 - 31 Dec 2013: "Géopal - Réseau Géomatique de l'Ouest : Présentations en ligne" (Les présentations des deux journées 'Géopal - Réseau Géomatique de l'Ouest' qui se sont tenues les 17 et 18 décembre 2013 sont désormais en ligne).
- Agenda:** A section titled "L'équipe Sextant dans les stations méditerranéennes" with a description of sessions and a date of 19/05/14. Below it, "Brest : formations à Sextant en juin" with a date of 10/06/14. There is also a link for "Flux RSS (Ouvre la nouvelle fenêtre)".
- Footer:** A link "+ tous les événements".

<http://sextant.ifremer.fr>

Ifremer

2006 – Sextant (partners & public)

Sextant meets the needs of different projects from the regional level to an international scale, including overseas territories:

European Projects: EMODNet, MyOcean, SeaDataNet, Charm

French national projects: Marine Strategy Framework Directive (MSFD), Marine aggregate, Renewable Marine Energy Planning, Natural Maritime Information Systems (SINP)

Regional Projects: Rebent, Medbenth, Ogive Agil

Projects in Overseas Territories: Indian Ocean, New Caledonia, French West Indies

<http://sextant.ifremer.fr>



Ifremer



INSPIRE –ing?

EU INSPIRE Directive came into force 15th May 2007 with full implementation by 2019

Data should be

- Collected once and stored where it can be effectively maintained
- Easily discoverable
- Readily and transparently available
- Capable of being seamlessly combined across Europe



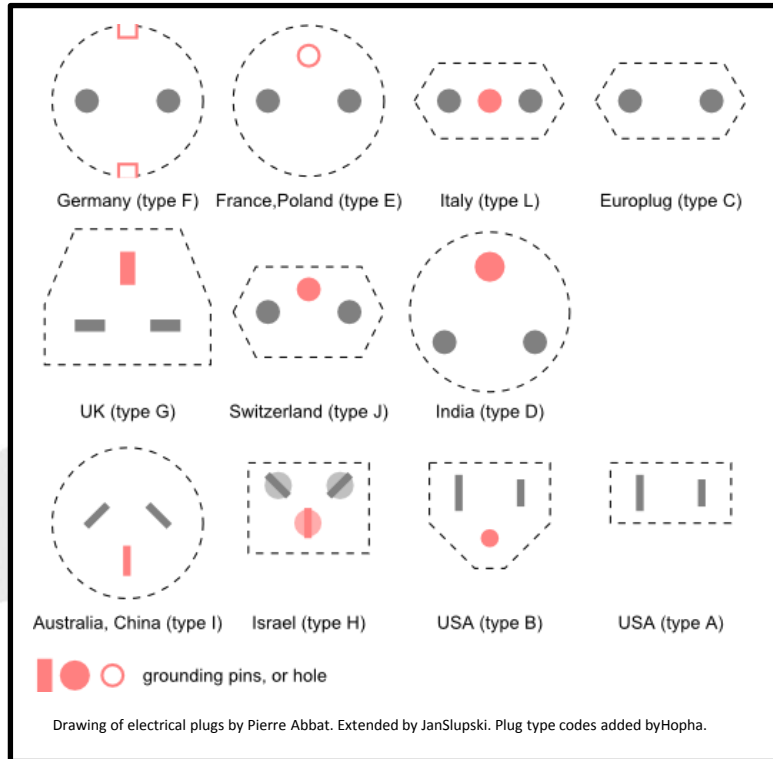
Standards and Guidelines

HOW STANDARDS PROLIFERATE:
(SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC)



Source: xkcd.com

Standards and Guidelines



"Reisestecker" by User:Mattes - Own work. Licensed under Public domain via Wikimedia Commons - <http://commons.wikimedia.org/wiki/File:Reisestecker.jpg#mediaviewer/File:Reisestecker.jpg>

Standards and Guidelines

In order to find and use data you need to know something about them.

Metadata describes data – “data about data”

ISO Standard for geospatial metadata

- ISO19115/19139

UK Implementation

- UK GEMINI

Marine “super-set”

- MEDIN Discovery Metadata Standard
- Keywords in European infrastructure



```
194      </gmd:thesaurusName>
195      </gmd:MD_Keywords>
196    </gmd:descriptiveKeywords>
197    <gmd:descriptiveKeywords>
198      <gmd:MD_Keywords>
199        <gmd:keyword>
200          <gmx:Anchor xlink:href="http://vocab.ndg.nerc.ac.uk/term/P021/70/FATX">Fish abundance in water bodies</gmx:Anchor>
201        </gmd:keyword>
202        <gmd:keyword>
203          <gmx:Anchor xlink:href="http://vocab.ndg.nerc.ac.uk/term/P021/70/FATM">Fish morphology, age and physiology</gmx:Anchor>
204        </gmd:keyword>
205        <gmd:keyword>
206          <gmx:Anchor xlink:href="http://vocab.ndg.nerc.ac.uk/term/P021/70/GP085">Fish behaviour</gmx:Anchor>
207        </gmd:keyword>
208      </gmd:thesaurusName>
209      <gmd:CI_Citation>
210        <gmd:title>
211          <gco:CharacterString>SeaDataNet P021 parameter discovery vocabulary</gco:CharacterString>
212        </gmd:title>
213        <gmd:date>
```

Metadata is IMPORTANT!



photograph courtesy of Flickr user sarah0s / Creative Commons Licensed

The Metadata Catalogue

The image displays two side-by-side screenshots of a web application interface for a metadata catalogue. The left screenshot, titled "Recherche avancée", shows search criteria options. It includes a "Recherche libre:" text box, a "Catalogue:" dropdown menu, and a "Thèmes:" section with radio buttons for "Sextant" and "INSPIRE". Under "Thèmes", there are several checkboxes for categories like "Activités humaines", "Cartes scannées", "Imagerie", "Milieu biologique", "Milieu chimique", "Milieu physique", and "Réglementation et gestion". A "Thematic selection" label is placed to the right of these options. Below the themes are "Qui" and "Quand" dropdown menus, and "Effacer" and "Rechercher" buttons. A "Geospatial selection" label is placed over a map showing a highlighted area in the Mediterranean region. The right screenshot, titled "Catalogue", shows search results. It displays a list of items with their titles, descriptions, and source information. The first item is "Carte d'habitats physiques des fonds marins en France métropolitaine (échelle 1 / 1 000 000) - Version 2011". A green arrow points from a starburst "Click" label to the title of this item. Below each item are "Télécharger" and "Visualiser" buttons. The interface also shows navigation elements like "Catalogue", "Géoviewer", and "Panier" at the top, and "Trier par Popularité" on the right.

Search criteria

Results page

The Metadata Catalogue

The screenshot displays the Metadata Catalogue interface. At the top, there are navigation buttons for 'Catalogue', 'Géoviewer', and 'Panier'. The main search area shows 'Recherche avancée' with a 'simplifiée' toggle and '1-20 resultat(s) / 1134'. The search results list includes the title 'Carte d'habitats physiques des fonds marins en France métropolitaine (échelle 1 / 1 000 000) - Version 2011'. A detailed view of this record is open, showing a thumbnail map and a list of metadata fields: 'Métadonnées essentielles', 'Mots clés', 'Description', 'Résumé', 'Généralités sur la provenance', 'Contraintes d'accès', 'Informations sur la distribution', and 'Contraintes légales'. The 'Description' field contains a detailed text about the map's methodology and source. The 'Résumé' field provides a shorter overview. The 'Généralités sur la provenance' field includes contact information for Ifremer. The 'Contraintes d'accès' field details usage restrictions and citation requirements. The 'Informations sur la distribution' field lists the organization and email address. The 'Contraintes légales' field explains the terms of use and citation. On the left side, there is a sidebar with a search bar, a 'Quoi' section with various thematic filters (e.g., 'Milieu physique'), and a 'Rechercher' button.

Recherche avancée simplifiée << >> | 1-20 resultat(s) / 1134 Trier par Popularité

Carte d'habitats physiques des fonds marins en France métropolitaine (échelle 1 / 1 000 000) - Version 2011

Habitats physiques dans la typologie Eunis résultant du croisement de trois variables physiques maillées à la résolution de 250 mètres : nature du substrat, zone biologique, tension de cisaillement au fond. Côtes de France métropolitaine. Rapport Ifremer "Hamdi Anouar, Vasquez Mickael, Populus Jacques (2010). Cartographie des habitats

Carte d'habitats physiques des fonds marins en France métropolitaine (échelle 1 / 1 000 000) - Version 2011

Métadonnées essentielles Métadonnées complètes

Carte d'habitats physiques des fonds marins en France métropolitaine (échelle 1 / 1 000 000) - Version 2011

Mots clés

/Milieu physique/Habitats physiques, Cartographie d'habitats, Modélisation, Habitats physiques, Eunis, Fonds marins, Habitats et biotopes

Description

51.3
-7
12
41

Résumé

Habitats physiques dans la typologie Eunis résultant du croisement de trois variables physiques maillées à la résolution de 250 mètres : nature du substrat, zone biologique, tension de cisaillement au fond. Côtes de France métropolitaine. Rapport Ifremer "Hamdi Anouar, Vasquez Mickael, Populus Jacques (2010). Cartographie des habitats physiques Eunis - Côtes de France. Convention Ifremer/AAMP n° 09/12177764/FY. <http://archimer.ifremer.fr/doc/00026/13751/>

Généralités sur la provenance

Pour toute information sur la généalogie de la donnée consulter le document "Hamdi Anouar, Vasquez Mickael, Populus Jacques (2010). Cartographie des habitats physiques Eunis - Côtes de France. Convention Ifremer/AAMP n° 09/12177764/FY. <http://archimer.ifremer.fr/doc/00026/13751/>

Contraintes d'accès

Informations sur la distribution

Nom de l'organisation : Ifremer - Centre de Brest
Adresse e-mail : sextant@ifremer.fr

Contraintes légales

Limitation d'utilisation : Utilisation interdite pour un usage commercial. Modification et diffusion interdite de la donnée sans l'accord des producteurs de la donnée (Ifremer DYNECO/AG et Aamp, voir points de contact)
Autres contraintes : Obligation de citation dans une carte : "Source Ifremer - Aamp"
Autres contraintes : Obligation de citation dans la bibliographie : "Hamdi Anouar, Vasquez Mickael, Populus Jacques (2010). Cartographie des habitats physiques Eunis - Côtes de France. Convention Ifremer/AAMP n° 09/12177764/FY. <http://archimer.ifremer.fr/doc/00026/13751/>

Quoi

Recherche libre:

Catalogue:

Thèmes: Sextant

- Activités humaines
- Cartes scannées
- Imagerie
- Milieu biologique
- Milieu chimique
- Milieu physique
- Réglementation et gestion

Qui

Quand

Effacer Rechercher

Working together
to improve access and stewardship of marine data

MEDIN

about us | joining MEDIN | subscribe to Marine Data Newsletter

Working together
to improve access and stewardship of marine data

about us | joining MEDIN | subscribe to Marine Data Newsletter | contact us | site map

MEDIN



British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL



British Oceanographic Data Centre
NATURAL ENVIRONMENT RESEARCH COUNCIL



THE UNITED KINGDOM
HYDROGRAPHIC OFFICE



Met Office



marine scotland
science



ads
ARCHAEOLOGY
DATA SERVICE

home

data discovery portal

online data by theme

data submission

marine data standards

library

Search

Welcome

Search

Type

Leave

Date

Get

Go

See

Create

Click

West

East

North

South

Map

Layers

Legend

Scale

Print

Full Screen

Help

Feedback

Home

Search

Home

Home

Home

Home

Home

home

data discovery portal

online data by theme

data submission

marine data standards

library

Metadata: 2005 UMBSM Clyde Sea The Importance of Inshore Area Commercially Important Fish Species

Overview

Abstract: A PhD was undertaken at the University Marine Biological Station (UMBSM) and presented to the University of London. The importance of inshore nursery grounds for commercially important fish species was investigated on the west coast of Scotland. The study investigated the spatial and temporal variation in diet, condition and growth and community analysis techniques were incorporated. Otolith microchemistry was investigated as an effective method of identifying differences in the environmental history of whiting during the post-settlement phase. It was suggested that adult populations could potentially be linked to inshore nursery areas.

Data holder: University Marine Biological Station (UMBS), Millport

Online resource present:

Use constraints:

- Restrictions apply. Please contact UMBSM for further details.

Details

Details for the metadata are as follows:

Unique resource identifier (info)	UMBSM9494
Abstract (info)	A PhD was undertaken at the University Marine Biological Station (UMBSM) London. The importance of inshore nursery grounds for commercially important fish species was investigated on the west coast of Scotland. The study investigated the spatial and temporal variation in diet, condition and growth and community analysis techniques were incorporated. Otolith microchemistry was investigated as an effective method of identifying differences in the environmental history of whiting during the post-settlement phase. It was suggested that adult populations could potentially be linked to inshore nursery areas.
Keywords (info)	NDGO0001, Species distribution, Fish abundance
Geographic bounding box (info)	-5.1327°W, -5.0304°E, 56.0068°N, 55.8672°S

You are searching for...

documents containing **Haddock**

6 results returned in **0.80** seconds.

[Return to your results](#) or [Edit this search](#).

Download

The metadata is available for downloading in the following formats:

- [MEDIN format](#) (CSV)
- [MEDIN format](#) (XML version 2.3.1)
- [Dublin Core format](#) (XML)
- [GCMD DIF format](#) (XML version 9.4)

This metadata complies with [INSPIRE](#) and [GEMINI 2](#) standards.

Add your own record [here](#).

A [light version](#) of the portal is available for mobile and other limited browsers.

You are searching for...
everything in the catalogue.

2611 results returned in 0.23 seconds.

Shortcut search

Click to search...

- [The United Kingdom](#)
- [England](#)
- [Scotland](#)
- [Wales](#)
- [Northern Ireland](#)

Add your own record [here](#).

A [light version](#) of the portal is available for mobile and other limited browsers.



INSPIRE GEOPORTAL

Enhancing access to European spatial data

EUROPEAN COMMISSION > INSPIRE > INSPIRE GEOPORTAL

Welcome to the INSPIRE geoportal

The INSPIRE Directive requires the Commission to establish a community geo-portal and the Member States shall provide access to their infrastructures through the geo-portal as well as through any access points they themselves decide to operate.

[More...](#)

Discovery / Viewer

Search, discover and access geographic



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205 <gmd:keyword>
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211 <gco:CharacterString>SeaDataNet P021 parameter discovery vocabulary</gco:CharacterString>
212 </gmd:title>
213 <gmd:date>
  
```



But what about the data...?



The Geoviewer



Sextant
Infrastructure de données géographiques marines et littorales

EN FR
ifremer

Recherche

Présentation Catalogues thématiques Services OGC Ressources documentaires

Catalogue Géoviewer Panier

Layer management

Couches thématiques

Fond cartographique: Sextant

- Milieu physique
 - Habitats physiques
 - Carte d'habitats physiques des fonds marins Atlantique (échelle 1 / 1 000 000) - Version 2011
 - Carte d'habitats physiques des fonds marins Méditerranée (échelle 1 / 1 000 000) - Version 2011
 - Bathymétrie
 - MNT
 - Bathy-morphologie régionale du Golfe de Gascogne et de la Manche (édition 2008, résolution 1000m)
 - Morpho-bathymétrie de la Méditerranée (Medimap, édition 2008, résolution 1000m)

Legend

- A1 : Littoral rock and other hard substrata
- A2 : Littoral sediment
- A2.3 : Littoral mud
- A3.1 : Atlantic and Mediterranean high energy infralittoral rock
- A3.2 : Atlantic and Mediterranean moderate energy infralittoral rock
- A3.3 : Atlantic and Mediterranean low energy infralittoral rock
- A4.1 : Atlantic and Mediterranean high energy circalittoral rock
- A4.2 : Atlantic and Mediterranean moderate energy circalittoral rock
- A4.3 : Atlantic and Mediterranean low energy circalittoral rock
- A5.13 : Infralittoral coarse sediment
- A5.14 : Circalittoral coarse sediment
- A5.15 : Deep circalittoral coarse sediment
- A5.23 : Infralittoral fine sand
- A5.24 : Infralittoral muddy sand
- A5.25 : Circalittoral fine sand
- A5.26 : Circalittoral muddy sand
- A5.27 : Deep circalittoral sand
- A5.33 : Infralittoral sandy mud
- A5.34 : Infralittoral fine mud
- A5.35 : Circalittoral sandy mud
- A5.36 : Circalittoral fine mud
- A5.37 : Deep circalittoral mud
- A5.43 : Infralittoral mixed sediments
- A5.44 : Circalittoral mixed sediments
- A5.45 : Deep circalittoral mixed sediments

Bathy-morphologie régionale du Golfe de Gascogne et de la Manche (édition 2008, résolution 1000m)

Coordonnées: WGS84 Lon: -4.46 Lat: 46.10

Échelle: 1/1733376 0 90 KM

The Geoviewer



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EN FR

Recherche

Présentation Catalogues thématiques Services OGC Ressources documentaires

Catalogue Géoviewer Panier

Couches thématiques

Fond cartographique: Sextant

- Milieu physique
 - Habitats physiques
 - Carte d habitats physiques des fonds marins Atlantique (échelle 1 / 1 000 000) - Version 2011
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Ajouter une couche

WMS

Access remote data

Choisissez un serveur WMS : Ifremer - Océanographie physiq

- ou -

Saisissez l'URL d'un serveur WMS :

- Sédimentologie
- Bathymétrie
- Imagerie acoustique
- Extraplac
 - Campagnes
 - Campagnes océanograph
 - Campagnes océanograph

Ok

Ifremer - Océanographie physiq

Ifremer - MNT

Ifremer - Granulats marins

Ifremer - Géosciences marines

Ifremer - Biologie

Ifremer - Surveillance littorale

Agence des aires marines protégées

BRGM Géologie

BRGM Risques naturels et industriels

BRGM Observatoire des matériaux

Cartorisque

Forum des marais Atlantique

Geolittoral

Geosignal

Ifen

MNHN-INPN

Marine Regions

Sandre Ouvrage

Sandre Stations

Sandre Zonage

SHOM

Informations attributaires

Carte d habitats physiques des fonds marins Atlantique (échelle 1 / 1 000 000)

EUNIS

A4.3 : Atlantic and Mediterranean low energy circalittoral rock

Bathy-morphologie régionale du Golfe de Gascogne et de la Manche (édition 2008, résolution 1000m)

x	y	variable	value
-369821.35140389425	5995563.535207391	Sans-titre	-50.0

Coordonnées WGS84 Lon: -3.45 Lat: 47.25

Echelle: 1 / 1733376 0 90 KM

The Shopping Cart

➤ Download Interface

The screenshot displays the Sextant web application interface. At the top, there is a header with the Sextant logo (a sextant) and the text "Sextant Infrastructure de données géographiques marines et littorales". To the right of the header, there are language options "EN FR" and a search bar with the text "Recherche". Below the header, there is a navigation bar with buttons for "Présentation", "Les catalogues thématiques", "Nos services", and "Les ressources documentaires". On the right side of the navigation bar, there are buttons for "Catalogue", "Géoviewer", and "Panier".

The main content area is divided into two panels. The left panel is titled "Modifiez les critères d'extraction de cette donnée" and contains a map of Europe with a red rectangular selection box over the Atlantic Ocean. Below the map, there are dropdown menus for "Projection" (set to "Lambert Zone I - Datum NTF") and "Format" (set to "vectoriel ESRI Shapefile"). A button "Appliquer les critères" is located at the bottom of this panel. Below the map, there is a note: "Modifiez les critères d'extractions puis appliquez les modifications à l'ensemble des couches concernées."

The right panel is titled "3 couche(s) dans votre panier -" and contains a list of three vector layers. Each layer has a title, a "Contraintes" button, and a "Modifiez les critères d'extraction de cette donnée" button. The layers are:

- DCSMM - Sous régions marines
- Carte d'habitats physiques des fonds marins en France métropolitaine (échelle 1 / 1 000 000) - Version 2011 (Mer du nord - Manche - Atlantique)
- Carte des zones biologiques en France métropolitaine (échelle 1 / 300 000) - Version 2011 (Mer du nord - Manche - Atlantique)

A button "Télécharger les couches" is located at the bottom of the right panel.



DASSH

The archive for marine species and habitats data

Bounding Box (Entered via Map)

-3.60626220703125,50.33844888725473,-2.39776611328125,50.812877010308966

Survey Name

Species

Originator

Owner

Search

Show per page: 10

Originator	Owner	Sampling Device	Start Latitude	Start Longitude	Sample Date	Taxon Name
Museum, ent	3175: Natural England	HU	50.635717	-2.564783	1999-08- 26T23:00:00Z	Zostera (Zostera) marina
atural Museum, ent	3175: Natural England	HU	50.635717	-2.564783	1999-08- 26T23:00:00Z	Lamprothamnium papulosum
atural Museum, ent	3175: Natural England	HU	50.635717	-2.564783	1999-08- 26T23:00:00Z	Zostera (Zosterella) noltei

Showing 1 to 10 of 2,385 entries

Export Your Search Results as

CSV

Export Data



British Geological Survey

NATURAL ENVIRONMENT RESEARCH COUNCIL



British Oceanographic Data Centre

NATURAL ENVIRONMENT RESEARCH COUNCIL



THE UNITED KINGDOM
HYDROGRAPHIC OFFICE



Met Office



DASSH The Archive for Marine
Species and Habitats Data



Cefas

marinescotland
science



ARCHAEOLOGY
DATA SERVICE

Sextant & MEDIN/DASSH: Standards



- Search

- Built on metadata standards
- Compliant with ISO 19115 and ISO 19139
- OGC – Catalogue Services Web (CSW 2.0.2)



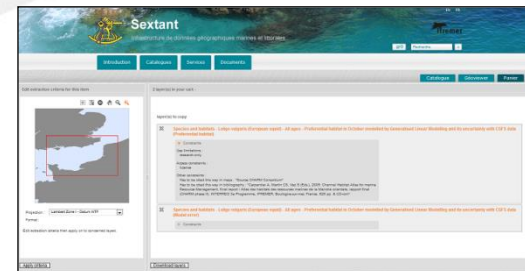
- Visualise

- Web Map Service (WMS and WMTS)
- Sensor Web Enablement (SWE)



- Download

- Web Feature Service (WFS)
- Web Coverage Service (WCS)



Standards and Guidelines

Why bother?

- Instill good practice amongst users
- Allow contracting organizations to specify a format that data should be returned in that can be readily used and includes all relevant attributes
- Provide a consistent format for contractors to work to (rather than a different format for each contract)
- Allow easy ingestion of data to Data Centres

It saves time and money!



The wider story

Cost of ocean observation in the EU

Space data - €400 million/year

In-situ data - > €1 billion/year

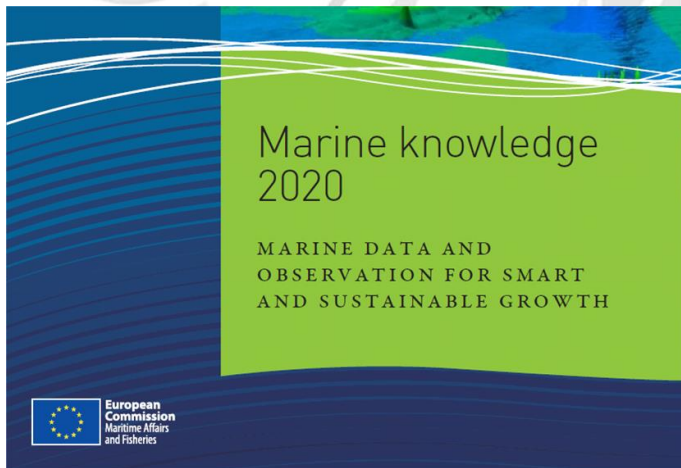
The wider story



“...the data collected through these observations can only generate knowledge and innovation if Europe's engineers and scientists are able to find, access, assemble and apply them efficiently and rapidly. At present this is often not the case.”

Maria Damanaki, Former
Commissioner for Maritime Affairs
and Fisheries

The wider story



- Overall definition and scope: Marine Knowledge 2020 brings together marine data from different sources with the aim of:
- Helping **industry, public authorities and researchers** find the data and make more effective use of them to develop new products and services.
- Supporting environmental protection needs (Marine Strategy Framework Directive).
- Implemented through an European Marine Observation and Data Network

The wider story

From Observation to Information

Analysis and Assessment

- Combination of different data
- Model Application
- Data interpretation
- Environmental Assessment



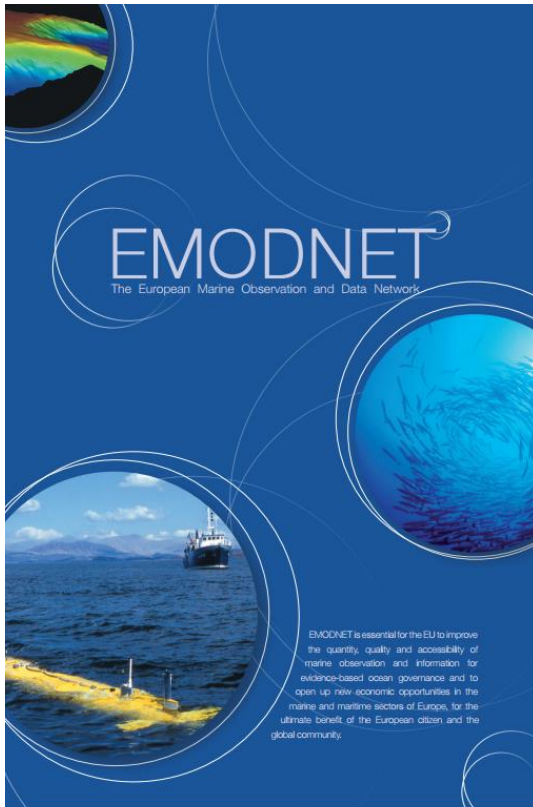
Data Processing and Management

- Data check, -conversion and -storage
- Quality control
- Data presentation



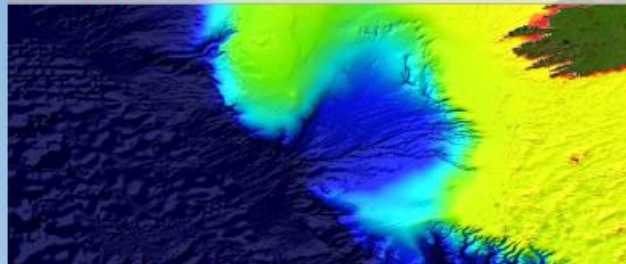
Observations

- from automated systems
- during ship cruises
- from remote sensing



The objective is to assemble existing data from public and private organisations relating to the state of sea basins; processing them into interoperable formats which includes agreed standards, common baselines or reference conditions; assessments of their accuracy and precision and creating data products;

Bathymetry

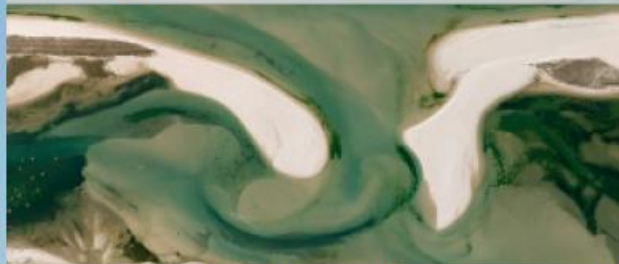


Data on bathymetry (water depth), coastlines, and geographical location of underwater features: wrecks.

[Read more](#)

[Portal](#)

Geology



Data on seabed substrate, sea-floor geology, coastal behaviour, geological events, and minerals.

[Read more](#)

[Portal](#)

Seabed Habitats



Data on modelled seabed habitats based on seabed substrate, energy, biological zone, and salinity.

[Read more](#)

[Portal](#)

Chemistry



Data on the concentrations of pesticides, heavy metals, and antifoulants, in water, sediments and biota.

[Read more](#)

[Portal](#)

Biology



Data on temporal and spatial distribution of species abundance and biomass from several taxa.

[Read more](#)

[Portal](#)

Physics



Data on salinity, temperature, waves, currents, sea-level, light attenuation, and FerryBoxes.

[Read more](#)

[Portal](#)

Human Activities



Data on the intensity and spatial extent of human activities at sea.

[Read more](#)

[Portal](#)

The wider story



VALMER Data Hub



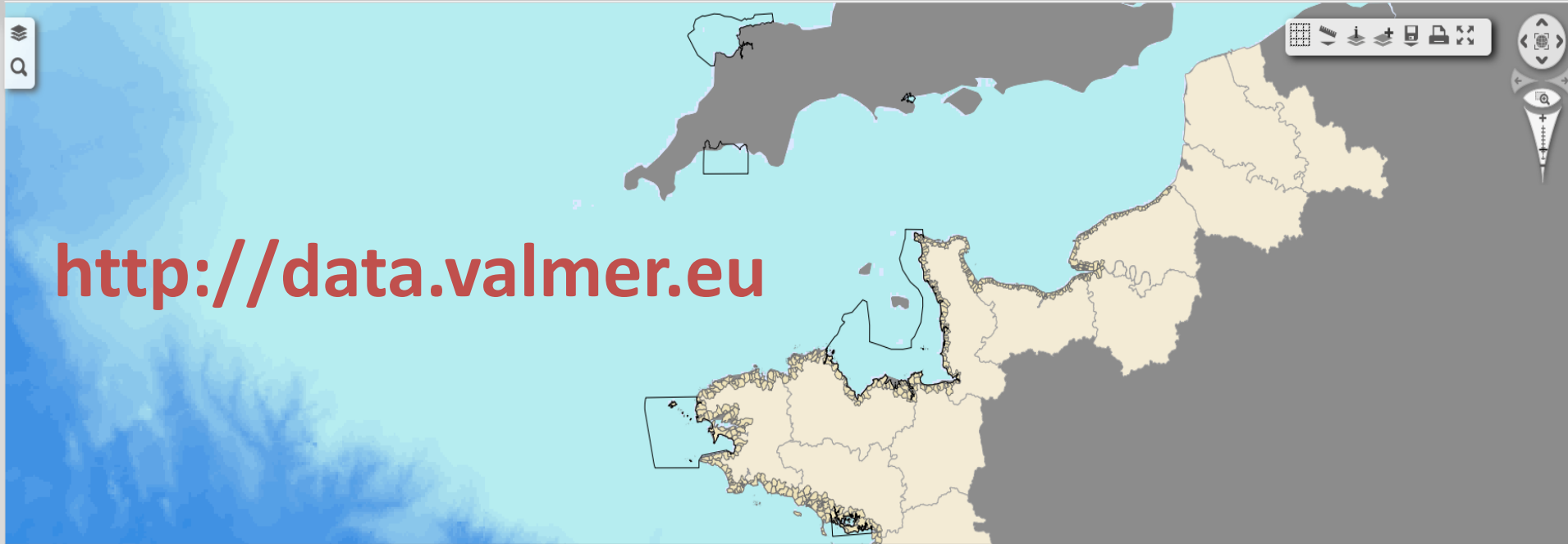
✉ + 📄 📱 FR EN

SEARCH ON WEBSITE... ✓

🏠 THE VALMER PROJECT DATA HUB

VALMERdata hub DATA EXCHANGE PLATFORM

🔍 Geoviewer Catalogue



Coordinates WGS84 Lon: -5.67 Lat: 48.42

Scale: 1/3466752 0 90 MI



- Legal notices
- Map site
- Credits

What next?

Still room for improvement

- Under-represented data themes (social & economic, noise, litter...)
- & sectoral data (industry, commercial, some academic)
- Need to promote infrastructures/standards more widely
- Integration of data management throughout the project lifespan (and beyond for a lasting legacy...)



**BACK
TO
THE FUTURE**

More machine processable than before

New, Improved SEMANTIC Web
Now with added meaning

May be incompatible with existing XML tools. Databases may take up to ten times as much memory and 24 hours to load.

What next?

Linked Open Data



W3C[®] Semantic Web

- Cross-domain
- Life sciences

Don't drown in data...



Dan Lear & Charly Griffiths (MBA)
Sonia Carrier (AAMP)
Catherine Satra La Bris (Ifremer)



PANACHE

Protected Area Network Across
the Channel Ecosystem



Hampshire & Isle of Wight
Wildlife Trust
Protecting wildlife. Inspiring people.



**LIVE
SUSTAINABLY
WITH
PLYMOUTH
UNIVERSITY
MARINE INSTITUTE**



**MARINE &
COASTAL POLICY
WITH
PLYMOUTH
UNIVERSITY**

PML | Plymouth Marine
Laboratory



The VALMER and PANACHE projects were selected under the European cross-border cooperation programme INTERREG IV A France (Channel) - England, co-funded by the ERDF.