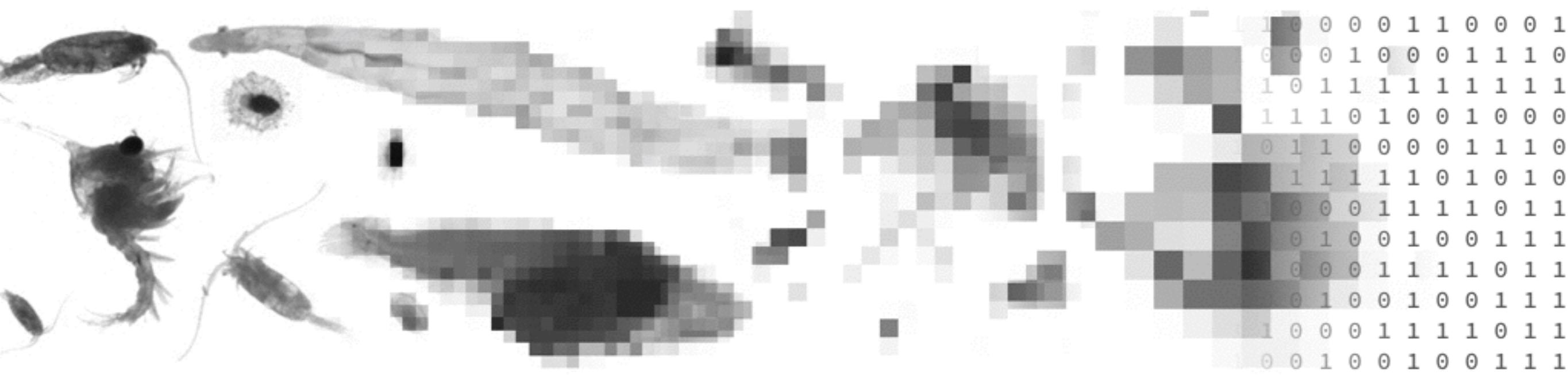




Traitemen~~t~~, sauvegarde et diffusion des données

Banques de données et démarche qualité



Traitement des données

taxa 1 + env

modèle de niche (NPPEN, MaxEnt, etc.), diversité taxinomique, phylogénétique

taxa 1/0 + env

relations probabilité de présence - environnement (régression logistique, BRT, etc.)

taxa n (\pm temps)

composition des communautés, indices de diversité

taxa n + env (\pm temps)

relations écologiques abondance - environnement (PCA, CA, GLM, GAM, BRT, etc.)

taille, volume + env (\pm taxa)

approche par traits fonctionnels, diversité fonctionnelle

Bases de données

Générales, internationales

<http://www.iobis.org>

<http://www.iobis.org/mapper/>
1 (n, env)

Zooplancton, internationales

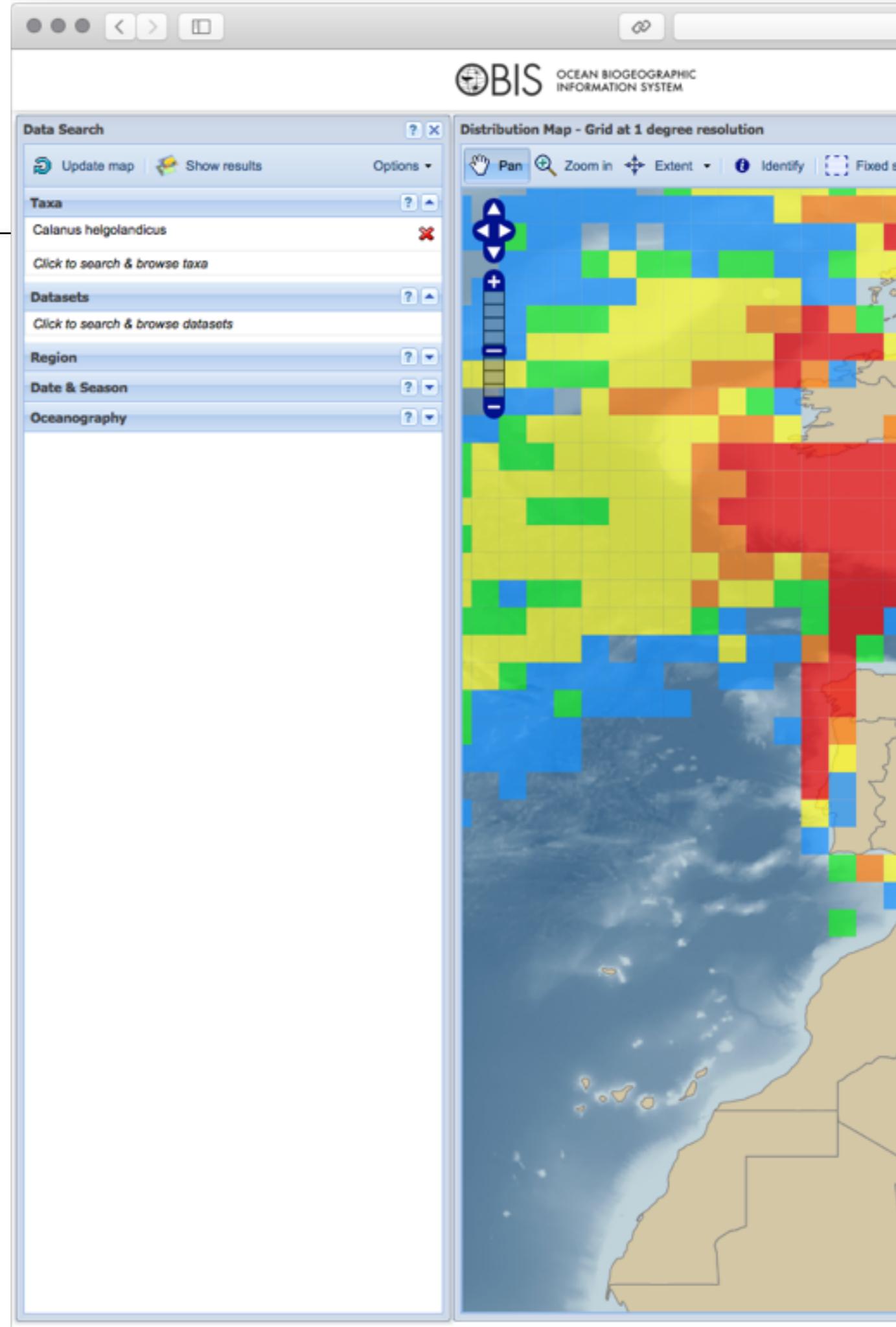
[http://www.st.nmfs.noaa.gov/
copepod/](http://www.st.nmfs.noaa.gov/copepod/)

[http://www.st.nmfs.noaa.gov/
copepod/time-series/](http://www.st.nmfs.noaa.gov/copepod/time-series/)
n, volume, env mais ancien

Zooplancton, spécifiques

CPR <https://www.sahfos.ac.uk>

Villefranche <http://ecotaxa.obs-vlfr.fr>
n (forme)



Bases de données

Générales, internationales

<http://www.iobis.org>

<http://www.iobis.org/mapper/>
1 (n, env)

Zooplancton, internationales

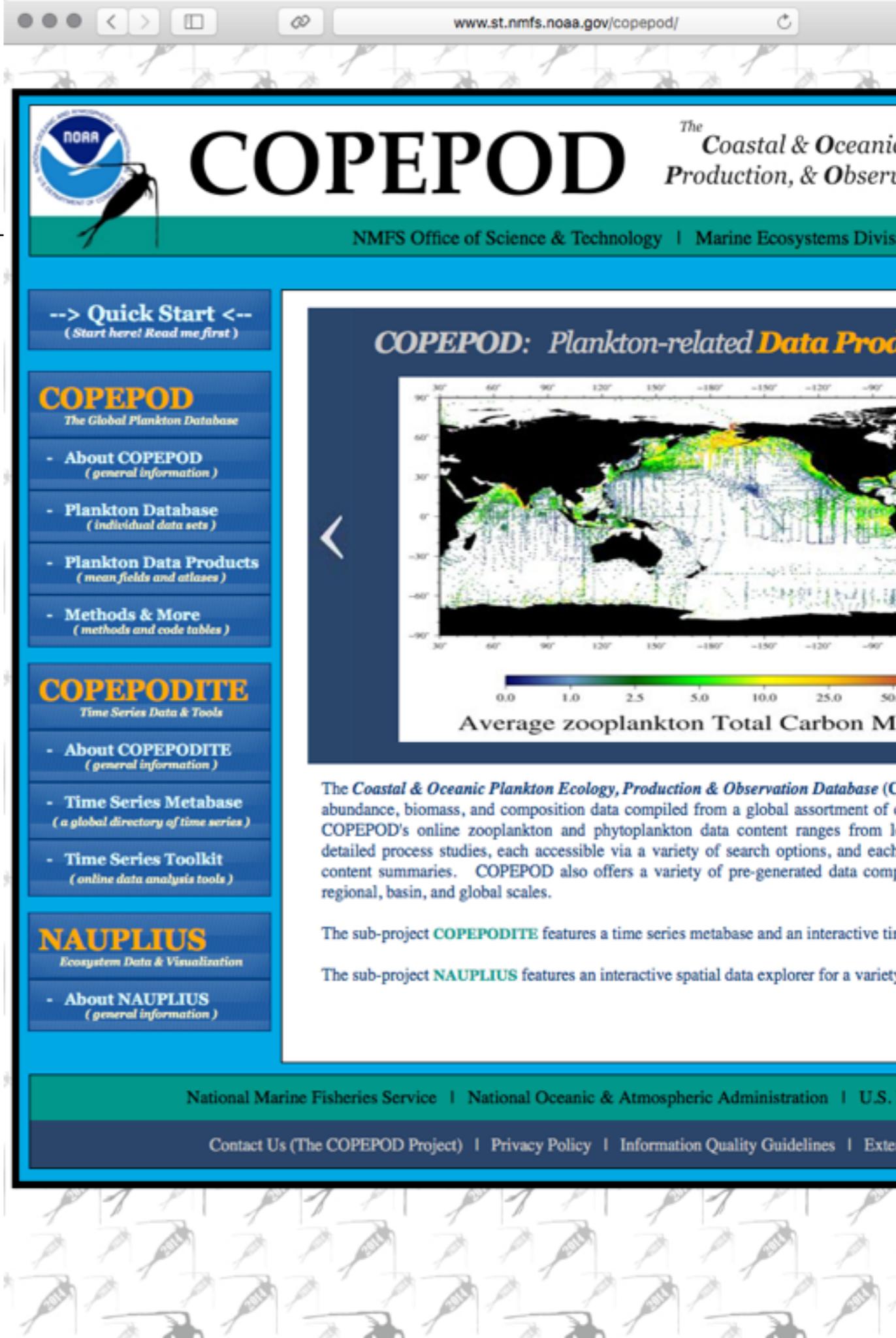
<http://www.st.nmfs.noaa.gov/copepod/>

<http://www.st.nmfs.noaa.gov/copepod/time-series/>
n, volume, env mais ancien

Zooplancton, spécifiques

CPR <https://www.sahfos.ac.uk>

Villefranche <http://ecotaxa.obs-vlfr.fr>
n (forme)



Bases de données

Générales, internationales

<http://www.iobis.org>

<http://www.iobis.org/mapper/>
1 (n, env)

Zooplancton, internationales

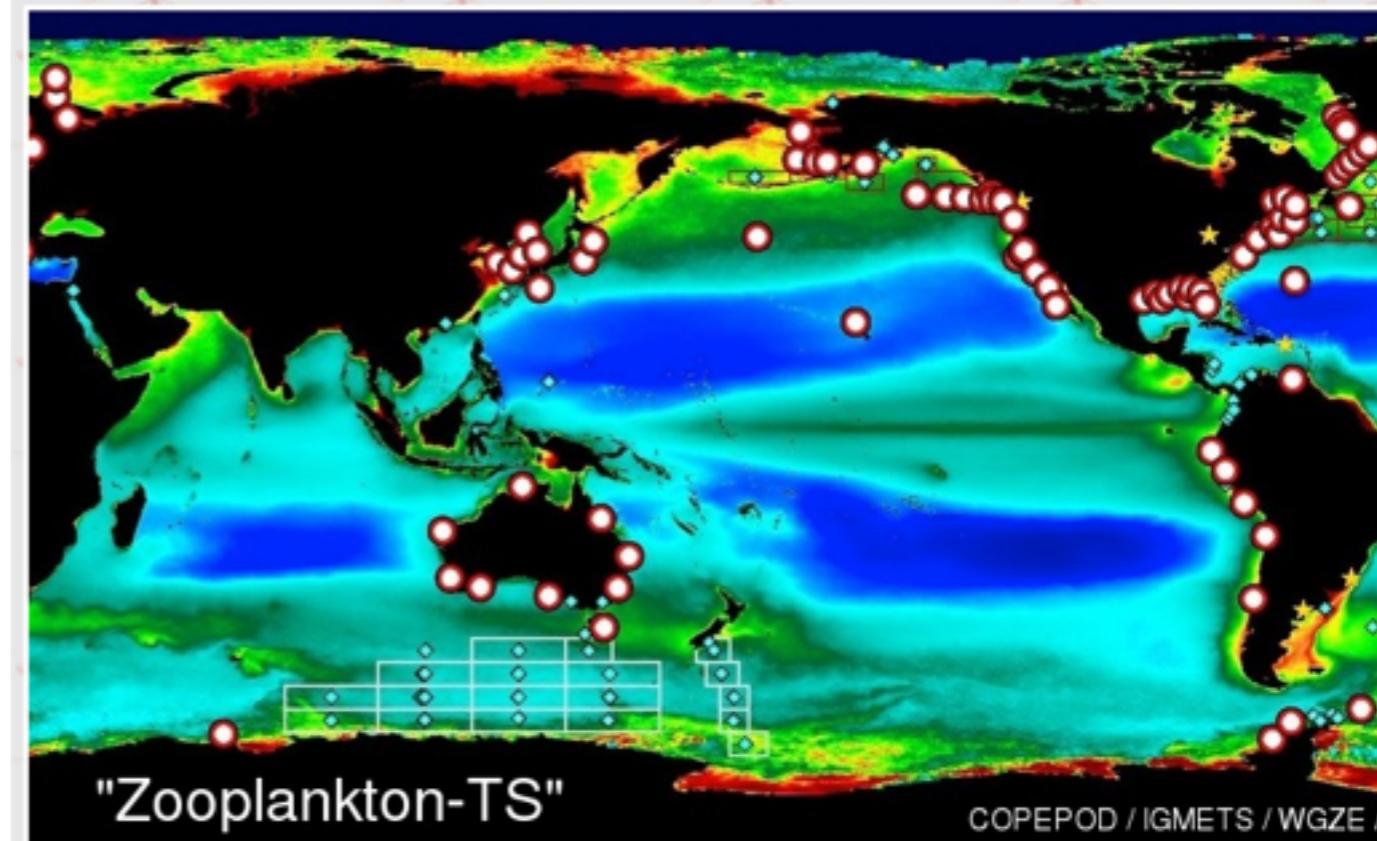
[http://www.st.nmfs.noaa.gov/
copepod/](http://www.st.nmfs.noaa.gov/copepod/)

[http://www.st.nmfs.noaa.gov/
copepod/time-series/](http://www.st.nmfs.noaa.gov/
copepod/time-series/)
n, volume, env mais ancien

Zooplancton, spécifiques

CPR <https://www.sahfos.ac.uk>

Villefranche <http://ecotaxa.obs-vlfr.fr>
n (forme)



Click labels (to right) to show maps for [Zooplankton | Phytoplankton | Hydrographic]
The Circle symbols above link to sites with this current variable set. Click on any symbol to see a summary.
Diamonds indicate time series that do not have this current variable set. Stars indicate estuarine time series that may or

You can also search through a listing of time series sorted by associated Country or sorted by Variable (or

GLOBAL [[Zooplankton](#) | [Phytoplankton](#) | [Hydrographic](#) | [Estuarine](#)]

North Atlantic [[Zoo](#) | [Phy](#) | [Hyd](#) | [Est](#) | [CPR](#)] South Atlantic [[Zoo](#) | [Phy](#) | [Hyd](#) | [Est](#)]

North Pacific [[Zoo](#) | [Phy](#) | [Hyd](#) | [Est](#)] South Pacific [[Zoo](#) | [Phy](#) | [Hyd](#) | [Est](#)]

North America [[Zoo](#) | [Phy](#) | [Hyd](#) | [Est](#)] Mediterranean Sea [[Zoo](#) | [Phy](#) | [Hyd](#) | [Est](#)]

Baltic Sea (focus) [[Zoo](#) | [Phy](#) | [Hyd](#) | [Est](#)] North Sea (focus) [[Zoo](#) | [Phy](#) | [Hyd](#) | [Hyd](#)]

The plankton time-series presented in the *Time Series Metabase (METABASE)* come from
COPEPOD's ongoing data management and time series analysis support for SCOR working groups
WG125 / **WG137**, ICES working groups **WGZE** / **WGPME**, and the IOC/UNESCO **IGMETS**.

Bases de fichiers, campagnes

<https://www.pangaea.de>

<https://www.pangaea.de/?q=zooplankton>

<https://www.pangaea.de/?q=maredat>

<http://www.seanoe.org/search>

<http://www.seanoe.org/data/00326/43749/>

The screenshot shows a search results page for "zooplankton" on the PANGAEA website. At the top right, there's a logo of a globe with red, green, and blue continents, followed by the text "PANGAEA." and navigation links like "ALL TOPICS", "zooplankton", and a search icon. Below the header, a teal bar says "Filter by..." and a white bar contains a search input field. To the right, a message says "6418 datasets found on search for »zooplankton«". A navigation bar below shows page numbers from 1 to 10. The main content area lists five datasets:

- Koski, MK; Pankoke, LM (2015):** Zooplankton cruise M87/1 in April 2012. Size: 1921 data points. doi:10.1594/PANGAEA.848481 - Score: 7.48 - [Similar datasets](#)
- Koski, MK; Pankoke, LM (2015):** Zooplankton M87/1 in April 2012. Size: 1712 data points. doi:10.1594/PANGAEA.848480 - Score: 7.43 - [Similar datasets](#)
- Vinogradov, ME; Sazhin, AF (1978):** Vertical distribution of zooplankton biomass in the Sea of Japan. Supplement to: Vinogradov, ME; Sazhin, AF (1978): Vertical distribution of zooplankton in the northern part of the Sea of Japan. Size: 2 datasets. doi:10.1594/PANGAEA.755350 - Score: 6.66 - [Similar datasets](#)
- Koski, MK; Pankoke, LM (2015):** Zooplankton cruise M87/1 in April 2012. Size: 1048 data points. doi:10.1594/PANGAEA.848349 - Score: 6.65 - [Similar datasets](#)
- Hirche, H-J; Laudien, J; Buchholz, F (2015):** Nephrops aggregations in Kongsfjorden with link to image of zooplankton sensor MOKI. Supplement to: Hirche, H-J; Laudien, J; Buchholz, F (2014): Nephrops aggregations in Kongsfjorden: implications for Biology. Related to: Laudien, J (2014): Sea-bottom video in Kongsfjordneset in 2009. Alfred Wegener Institute for Polar and Marine Research, Bremerhaven. Laudien, J; Fleury, D (2015): Sea-bottom station close to Blomstrand Halvoya in 2014. Helmholtz Center for Polar and Marine Research. Size: 666 data points. doi:10.1594/PANGAEA.840353 - Score: 6.55 - [Similar datasets](#)

On the left side of the main content area, there are filters for "Dataset Author", "Dataset Publication Year", "Topic", and "Project".

Bases de fichiers, campagnes



doi.pangaea.de/10.1594/PANGAEA.785501

Not logged in

PANGAEA.

Data Publisher for Earth & Environmental Science

SEARCH SUBMIT ABOUT

CONTACT

<https://www.pangaea.de>

<https://www.pangaea.de/?q=zooplankton>

<https://www.pangaea.de/?q=maredat>

<http://www.seanoe.org/search>

<http://www.seanoe.org/data/00326/43749/>

O'Brien, Todd; Moriarty, Róisín (2012): Global distributions of mesozooplankton abundance and biomass - Gridded data product (NetCDF) - Contribution to the MAREDAT World Ocean Atlas of Plankton Functional Types.
doi:10.1594/PANGAEA.785501

Always quote above citation when using data! You can download the citation in several formats below.

RIS Citation BibTeX Citation

Moriarty, Róisín; O'Brien, Todd (2013): Distribution of mesozooplankton biomass in the global ocean. *Earth System Science Data*, 4, 45-55, doi:10.5194/essd-5-45-2013 

[MARINE Ecosystem Model Intercomparison Project \(MAREMIP\)](#) 

The attached zip file contains raw data files submitted by the authors and a NetCDF file. Progressively, raw data will be imported into PANGAEA as distinct data publications related to the original sources (journal or data publications).

 Creative Commons Attribution 3.0 Unported

8172.0 kBytes

Download Data

[Download dataset](#)

PANGAEA IS HOSTED BY

Alfred Wegener Institute, Helmholtz Center for Polar and Marine Research (AWI)
Center for Marine Environmental Sciences, University of Bremen (MARUM)

THE SYSTEM IS SUPPORTED BY

The European Commission, Research
Federal Ministry of Education and Research (BMBF)
Deutsche Forschungsgemeinschaft (DFG)
International Ocean Discovery Program (IODP)

Bases de fichiers, campagnes

<https://www.pangaea.de>

[https://www.pangaea.de/?
q=zooplankton](https://www.pangaea.de/?q=zooplankton)

<https://www.pangaea.de/?q=maredat>

<http://www.seanoe.org/search>

[http://www.seanoe.org/data/
00326/43749/](http://www.seanoe.org/data/
00326/43749/)

The screenshot shows the SEANOE search interface. At the top, there is a search bar with the placeholder "Search everywhere" and a dropdown arrow, and a button labeled "zooplankton". Below the search bar, it says "1 Result(s)". On the left, there are filters for "PUBLICATION YEAR" (2016), "DISCIPLINE" (Physical oceanography), and "LICENCE CC" (CC-BY). There are also "Reset facets" and "Reset research" buttons. The main result is a dataset titled "Dyfamed observatory data" from 2016-04, which includes authors Coppola Laurent, Diamond Riquier Emilie, Carval Thierry, and information about zooplankton sampling every 15 days. At the bottom, there are links for "Contact" (Technical contact) and "Publication" (Publish your data).

Bases de fichiers, campagnes

<https://www.pangaea.de>

<https://www.pangaea.de/?q=zooplankton>

<https://www.pangaea.de/?q=maredat>

<http://www.seanoe.org/search>

<http://www.seanoe.org/data/00326/43749/>

Search everywhere

zooplankton

Document n°43749

1 Result(s)

Dyfamed observatory data

Publication date 2016-04

Author(s) Coppola Laurent^{1,2}, Diamond Riquier Emilie^{1,2}, Carval Thierry³

Affiliation(s)
1 : Sorbonne Universités, UPMC Univ. Paris 06, UMR 7093, Laboratoire d'Océanographie de Villefranche, 06230 Villefranche-sur-Mer, France
2 : CNRS, UMR 7093, Laboratoire d'Océanographie de Villefranche, 06230 Villefranche-sur-Mer, France
3 : Ifremer, Service Ingénierie des Systèmes d'Information, France

DOI [10.17882/43749](https://doi.org/10.17882/43749)

Publisher SEANOE

Keyword(s) Ligurian Sea, marine biogeochemistry, sediment traps, dissolved oxygen, nutrients, carbon export

Abstract In the framework of the French MOOSE project (Mediterranean Ocean Observing System for the Environment), an eulerian time series so-called DYFAMED (Ligurian Sea) performs since 1991 a monthly multidisciplinary monitoring to observe: 1) the evolution of the water mass properties (LIW and WMDW), 2) the carbon export change and 3) the variability of the biological species relative to climate forcing (temperature, acidification). In addition to monthly CTD profiles, a standalone mooring is located in the DYFAMED site with CTD and currents sensors (since 2009) and two sediment traps (Technicap PPS5) for collecting large particles and zooplankton every 15 days (48 samples per year).

Licence  CC BY

Data

File	Size	Format	Processing	Access	Key
2010-2015 deployments	20 MB	NC, NetCDF	Quality controlled data	Open access	43298
2010-2014 deployments	14 MB	NC, NetCDF	Quality controlled data	Restricted access	43276
2010-2013 deployments	2 MB	XLS, XLSX	Quality controlled data	Restricted access	43283

Pôles et bases de données nationaux

Pôle ODATIS <http://www.odatis-ocean.fr> contient

SEANOE, OASU (Bordeaux), OMP/
SEDOO (Toulouse), SISMER, UPMC
(OOV, SBR, OOV, LOCEAN), LEFE-CYBER <http://www.obs-vlfr.fr/proof/cruises.php>

Pelagos et Benthos de RESOMAR
(mais non consultable actuellement)

Quid de:

Quadrige² (IFREMER)

Autres?

The screenshot shows the Odatis website's main menu. A yellow horizontal bar at the top contains the following links: 'Le Pôle Odatis', 'Catalogues' (which is highlighted in yellow), 'Thématisques', 'Chantiers', 'Documentation', and 'Informations'. The rest of the page has a dark blue header with the Odatis logo and a large image of the ocean.



Dernières actual

Appel à proposition prochaine réunion la RDA - Research

Publié aujourd'hui

Réunion plénière des n l'alliance inter-national partage des données d

Lancement du proj Cloud

Publié aujourd'hui

Semaine de lancement l'infrastructure européenne données sur l'océan

Atelier RESOMAR p l'observation du zo

Publié aujourd'hui

L'atelier 2016 de taxon chaque année depuis 2 RESOMAR, sera consac l'observation du zoopl

The footer of the Odatis website is divided into two columns. The left column, titled 'Nos rubriques', lists: 'Le Pôle Odatis', 'Catalogues', 'Thématisques', 'Chantiers', 'Documentation', and 'Informations'. The right column, titled 'Outils', lists: 'Contact', 'S'identifier', and 'Imprimer'. Below these columns are links for 'Partenaires' and 'Mentions légales'.

Pôles et bases de données nationaux

Pôle ODATIS <http://www.odatis-ocean.fr> contient

SEANOE, OASU (Bordeaux), OMP/
SEDOO (Toulouse), SISMER, UPMC
(OOV, SBR, OOV, LOCEAN), LEFE-CYBER <http://www.obs-vlfr.fr/proof/cruises.php>

Pelagos et Benthos de RESOMAR
(mais non consultable actuellement)

Quid de:

Quadrige² (IFREMER)

Autres?

The screenshot shows a web browser window with the URL www.odatis-ocean.fr/Catalogues. The page has a dark blue header with the Odatis logo and the text "ODATIS Données et Services pour l'Océan". Below the header is a navigation menu with the following structure:

- Le Pôle Odatis
- Catalogues
 - Données In-Situ hauturières
 - Données In-Situ côtières
 - Données satellite
 - Produits globaux, indicateurs
- Jeux de données in-situ
 - Argo
 - Bouteilles-biogéochimie
 - CTD-MEMO
 - CTD/BioGéoChimie HR
 - Gliders
 - LADCP
 - Marégraphes
 - Mesures de navires en route
 - Mouillages côtiers
 - Mouillages hauturiers
 - Prélèvements côtiers fixes
 - RECOPESCA-TS
 - SADCP
 - Tomographie
 - VMP
- Thématisques
- Chantiers
- Documentation
- Informations

Pôles et bases de données nationaux

Pôle ODATIS <http://www.odatis-ocean.fr> contient

SEANOE, OASU (Bordeaux), OMP/
SEDOO (Toulouse), SISMER, UPMC
(OOV, SBR, OOV, LOCEAN), LEFE-CYBER <http://www.obs-vlfr.fr/proof/cruises.php>

Pelagos et Benthos de RESOMAR
(mais non consultable actuellement)

Quid de:

Quadrige² (IFREMER)

Autres?

The screenshot shows a web browser window with the URL abims.sb-roscoff.fr/pelagos/?execution=e2s1. The page header includes the RESOMAR logo, which is a stylized map of France with the word "resomar" written across it. The main menu at the top has three items: ACCUEIL, CONSULTATION, and INSERTION. Below the menu, there is a section titled "Statistiques de la base de données" containing a table with the following data:

Dernière mise à jour	16/07/2014
Nombre de jeux de données	18
Nombre d'échantillons	3017
Nombre de taxons	797

On the right side of the page, there is a section titled "La base de données PELAGOS" with the following text:

La base de données Pelagos est le fruit d'un travail de partenariat entre les Réseaux National des Stations et Observatoires Marins (RESOMAR). Elle vise à améliorer la connaissance de la biodiversité de l'écosystème pélagique côtier (dont le thème principal est la pêche). L'un des objectifs est d'exploiter l'information biologique à plusieurs échelles pour répondre aux questions scientifiques concernant par exemple les distributions et les variations dans la distribution et l'abondance des organismes pélagiques à différentes échelles de temps.

Dans un premier temps, la base ne sera accessible qu'à des personnes qui ont signé la charte d'utilisation des données (conditions d'utilisation des données).

Pour accéder aux données (et éventuellement insérer des données), vous devez :

- signer la charte RESOMAR et l'envoyer à contact.pelagos@abims.fr
- demander l'ouverture d'un compte via le formulaire <http://abims.sb-roscoff.fr/account>.

Un environnement intégré pour l'analyse en ligne de la biodiversité marine proposée à la communauté RESOMAR, Galaxy4Pelagos, est une plateforme qui regroupe un ensemble de scripts R interfacés sous la plateforme Galaxy.

Pour de plus amples informations : contact.pelagos@abims.fr

En cas de problème sur l'application : support.abims.fr

NB : La version 1 de Pelagos est disponible [ici](#) ; l'insertion de données y est désormais impossible.

The PELAGOS database

The PELAGOS database results from a collaboration between the Réseau National des Stations et Observatoires Marins (RESOMAR) and IFREMER. It contains planktonic biodiversity data (including time-series). RESOMAR is to analyse these data to answer scientific questions concerning the abundance and distribution of organisms in coastal marine systems over different time scales.

The database will first be available to members of the RESOMAR network, according to the data charter (that defines conditions of data usage).

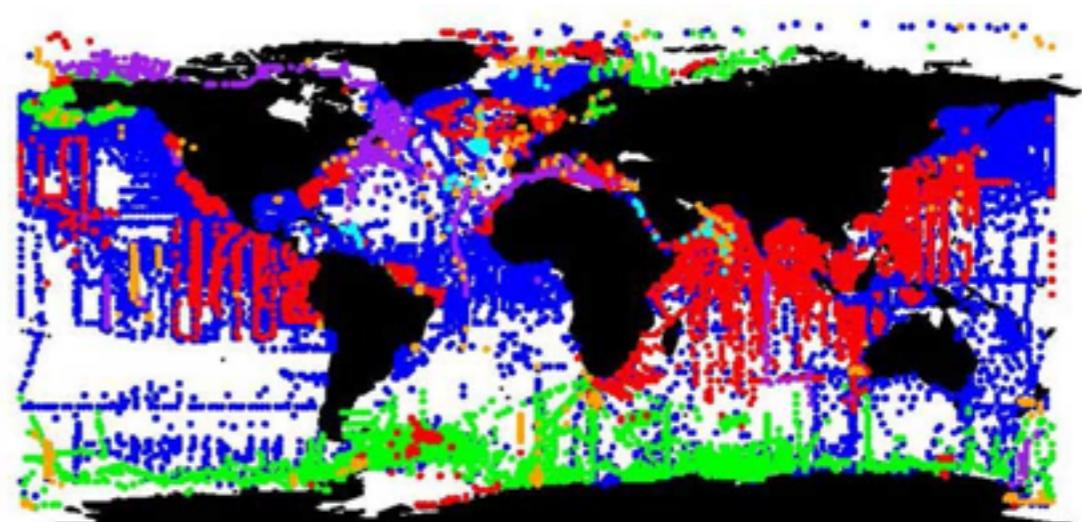
Jugement personnel des entrepôts de données



Pour présences: OBIS

Pour abondances: MAREDAT

Pour suivi des données: SEANOE



- Macrozooplankton ● Mesozooplankton □ Microzooplankton
- Pteropods ■ Foraminifera ■ Bacteria



Format des données

Divers mais SeaDataNet semble consensuel

<http://www.seadatanet.org/Standards-Software/Data-Transport-Formats>

Minimum

date	espèce	conc.	<i>lat</i>	<i>lon</i>	<i>prof.</i>

SeaDataNet mode ODV

Colonne	Contenu	Colonne
Cruise	001-P-015 - Point 1 Dunkerque	001-P-015 - P
Station	1001022_BIO_Surf	1001022
Type	*	
yyyy-mm-ddThh:mm:ss.sss	1992-01-07T14:00:00.000	1992-02-0
Longitude [degrees_east]	2.3334994	2.3
Latitude [degrees_north]	51.0686493	51.
LOCAL_CDI_ID	1001022_BIO_Surf	1001022
EDMO_code	486	
Bot. Depth [m]	0	
MinimumObservationDepth [m]	0.5	
QV:SEADATANET	1	

LOCAL_CDI_ID	1001022_BIO_Surf	1001022
EDMO_code	486	
Bot. Depth [m]	0	
MinimumObservationDepth [m]	0.5	
QV:SEADATANET	1	
MaximumObservationDepth [m]	0.5	
QV:SEADATANET	1	
SampleID:INDEXED_TEXT	50021	50021
QV:SEADATANET	1	
SamplingEffort:INDEXED_TEXT		
QV:SEADATANET	9	
SubsampleID:INDEXED_TEXT	50021	50021
QV:SEADATANET	1	
SubSamplingCoefficient:INDEXED_TE XT	1	
QV:SEADATANET	1	

SubSamplingCoefficient:INDEXED_TEXT	1	
QV:SEADATANET	1	
ScientificName:INDEXED_TEXT	Prorocentrum	Gym
QV:SEADATANET	2	
ScientificNameID:INDEXED_TEXT	urn:lsid:marinespecies.org:taxname:109566	urn:lsid:marinespecies.org:taxname:109566
QV:SEADATANET	2	
Sex:INDEXED_TEXT	Not Specified	Not Specified
QV:SEADATANET	9	
LifeStage:INDEXED_TEXT	Not Specified	Not Specified
QV:SEADATANET	9	
ObservedIndividualCount [#]		
QV:SEADATANET	9	
IndividualCountperLiter [#/l]	300	
QV:SEADATANET	2	

Contrôle qualité

Sur les identifications

Culverhouse, 2003 (dinoflagellés)

67 à 83% pour personnel entraîné

84 à 95% pour experts

Tara Zooscan

subset aléatoire de 5%, vérification collégiale \Rightarrow taux d'erreur ~2%

Sur les abondances

COPEPOD

range check (lat, lon)

par taxon/group: $n \notin \text{mean} \pm 5 \text{ SD}$ \rightarrow investigation

GBIF

Field error expected to be 1 to 5%

Contrôle qualité

Chapman, A. D. 2005. Principles of Data Quality, version 1.0. Report GBIF.

Chapman, A. D. 2005. Principles and Methods of Data Cleaning – Primary Species and Species- Occurrence Data, version 1.0. Report GBIF <http://www.gbif.org/resource/80528>

Error sources

spatial (temporal)

nomenclatural (taxa names)

data duplication

Principles

Plan a data cleaning policy and strategy

Prevention is better than cure

Prioritise, do not duplicate

Everyone is responsible (collector, curator, user)

Accountability, transparency and documentation

Flags SeaDataNet

Flag	Signification	Explication
0	no quality control	
1	good	
2	probably good	Probably consistent but cannot be checked; associated with defect but small
3	probably bad	Probably inconsistent
4	bad	Obviously erroneous
5	changed	Adjusted during quality control
6	below detection	
7	excess	Too large to be measured by technique
8	interpolated	
9	missing	
A	ID uncertain	Uncertainty in identification

Visualisation des données

[https://www.sahfos.ac.uk/
data/data-charts/](https://www.sahfos.ac.uk/data/data-charts/)

[https://www.sahfos.ac.uk/
data/map-data/](https://www.sahfos.ac.uk/data/map-data/)

[http://www.obs-vlfr.fr/
data/view/zoo/b/wp2/](http://www.obs-vlfr.fr/data/view/zoo/b/wp2/)

Mise à disposition:
attention à ne pas faire la
science à la place des gens!

