



WORKSHOP

An Introduction and practical use of European marine data Infrastructures

PANGAEA



Data Publisher for Earth & Environmental Science

Stéphane PESANT





The data gap...

84% wish easy access to data **from other scientists**

36% their data are easily accessible **to other scientists**

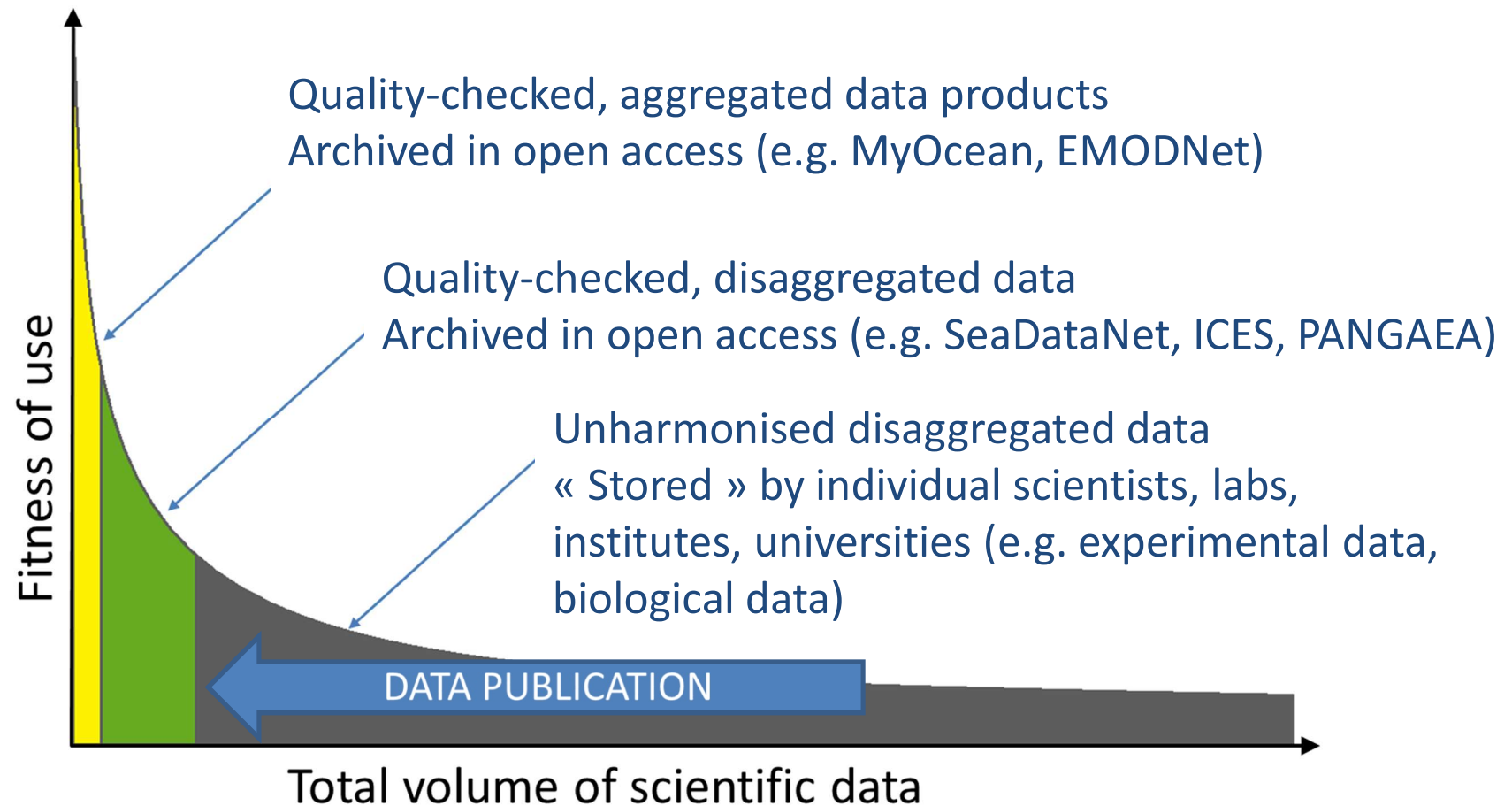
Monastersky, R. (2013). Publishing frontiers: The library reboot. Nature, doi:10.1038/495430a

“At the end of the day, science is a social process. You will never contribute by hiding yourself and your data.”

Van Noorden, R. (2013). Data-sharing: Everything on display. Nature doi:10.1038/nj7461-243a



The long tail of scientific data





... but where do I publish my data?

Data Publishers



Visuals Repository



Journals dedicated to data

Copernicus: *Earth System Science Data*

BioMed Central: *GigaScience*

Nature: *Scientific Data*



European Commission's Open Access Portal





PANGAEA, who are we?

PANGAEA, Data Publisher for Earth and Environmental Science



marum

UniHB, Bremen
Germany



AWI

Bremerhaven
Germany

Core member of the ICSU World Data System



<http://www.pangaea.de/projects/>



PANGAEA, what do we do?

PANGAEA, Data Publisher for Earth and Environmental Science

- Archive geo-referenced data in a relational database
- Register citable data sets (DOIs)
- Provide interoperability services
 - Cross-link data publications with journal publications
 - Disseminate data to marine data infrastructures



PANGAEA, what is a data publication?



PANGAEA®

Data Publisher for Earth & Environmental Science

Logg

Always

Data Description

Citation: Bauerfeind, E et al. (2009): Flux of biomarkers at AWI HAUSGARTEN from mooring FEVI4. doi:10.1594/PANGAEA.690894,
In Supplement to: **Bauerfeind, Eduard; Nöthig, Eva-Maria; Beszczynska, Agnieszka; Fahl, Kirsten; Kaleschke, Lars; Kreker, Kathrin; Klages, Michael; Soltwedel, Thomas; Lorenzen, Christiane; Wegner, Jan (2009): Particle sedimentation patterns in the eastern Fram Strait during 2000-2005: Results from the Arctic long-term observatory HAUSGARTEN. *Deep Sea Research Part I: Oceanographic Research Papers*, 56(9), 1471-1487, doi:10.1016/j.dsr.2009.04.011**

Project(s): **Paleoenvironmental Reconstructions from Marine Sediments @ AWI (AWI_Paleo)** 🔍

Coverage: **Latitude:** 78.999167 * **Longitude:** 4.457333

Date/Time Start: 2003-06-08T00:00:00 * **Date/Time End:** 2003-07-02T00:00:00

Minimum DEPTH, water: 340.0 m * **Maximum DEPTH, water:** 340.0 m

Event(s): **FEVI4** 🔍 * **Latitude:** 78.999167 * **Longitude:** 4.457333 * **Date/Time Start:** 2003-06-08T00:00:00 * **Date/Time End:** 2003-06-20T00:00:00 * **Elevation:** -2568.0 m * **Location:** North Greenland Sea 🔍 * **Device:** Trap 🔍



Parameter(s):

#	Name	Short Name	Unit	Principal Investigator	Method	Comment
1	DEPTH, water 🔍	Depth water	m			Geocode
2	DATE/TIME 🔍	Date/Time				Geocode
3	Date/time end 🔍	Date/time end		Fahl, Kirsten 🔍		
4	Duration, number of days 🔍	Duration	days	Fahl, Kirsten 🔍		
5	Sample code/label 🔍	Label		Fahl, Kirsten 🔍		
6	cis-9-hexadecenoic acid flux 🔍	16:1(n-7) flux	µg/m ² /day	Fahl, Kirsten 🔍	Gas chromatography - Mass spectrometry (GC-MS) 🔍	
7	cis-11-hexadecenoic acid flux 🔍	16:1(n-5) flux	µg/m ² /day	Fahl, Kirsten 🔍	Gas chromatography - Mass spectrometry (GC-MS) 🔍	

<http://doi.pangaea.de/10.1594/PANGAEA.714845>



PANGAEA, cross-linking with journals



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Deep Sea Research Part I: Oceanographic Research Papers

Volume 56, Issue 9, September 2009, Pages 1471–1487



Particle sedimentation patterns in the eastern Fram Strait during 2000–2005: Results from the Arctic long-term observatory HAUSGARTEN

Eduard Bauerfeind^a,  , Eva-Maria Nöthig^a, Agnieszka Beszczynska^a, Kirsten Fahl^a, Lars Kaleschke^b, Kathrin Kreker^a, Michael Klages^a, Thomas Soltwedel^a, Christiane Lorenzen^a, Jan Wegner^a

^a Alfred Wegener Institute for Polar and Marine Research (AWI), Deep-Sea Research Group, Am Handelshafen 12, D-27570 Bremerhaven, Germany

^b University of Hamburg, Center of Marine and Atmospheric Research (ZMAW), Institute of Oceanography (IfO), Bundesstraße 53, D-20146 Hamburg, Germany

<http://dx.doi.org/10.1016/j.dsr.2009.04.011>, How to Cite or Link Using DOI

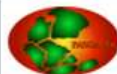
 Permissions & Reprints

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Bibliographic information 

Citing and related articles 

Applications and tools 

**PANGAEA® – Related Data**
Biogenic particle and biomarker flux from a mooring time-s... HAUSGARTEN



Hybrid 

<http://www.sciencedirect.com/science/article/pii/S0967063709000922>



PANGAEA, cross-linking with journals



Europe PubMed
Central



A novel, mat-forming *Thiomargarita* population associated with a sulfidic fluid flow from a deep-sea mud volcano.

(PMID:20946529)

Abstract

Citations

BioEntities

Related Articles

External Links

PANGAEA

Data Publisher for Earth & Environmental Science

- Related to: Lichtschlag, A et al (2013). High resolution in situ microsensor measurements of Amon mud volcano sediments measured at station M70/2b_805_PROF-2. PANGAEA
<http://dx.doi.org/10.1594/PANGAEA.809994>
- Related to: Lichtschlag, A et al (2013). High resolution in situ microsensor measurements of Amon mud volcano sediments measured at station M70/2b_805_PROF-1. PANGAEA
<http://dx.doi.org/10.1594/PANGAEA.809993>
- Related to: Lichtschlag, A et al (2013). High resolution in situ microsensor measurements of Amon mud volcano sediments measured at station M70/2b_790_MICP-1. PANGAEA
<http://dx.doi.org/10.1594/PANGAEA.809984>

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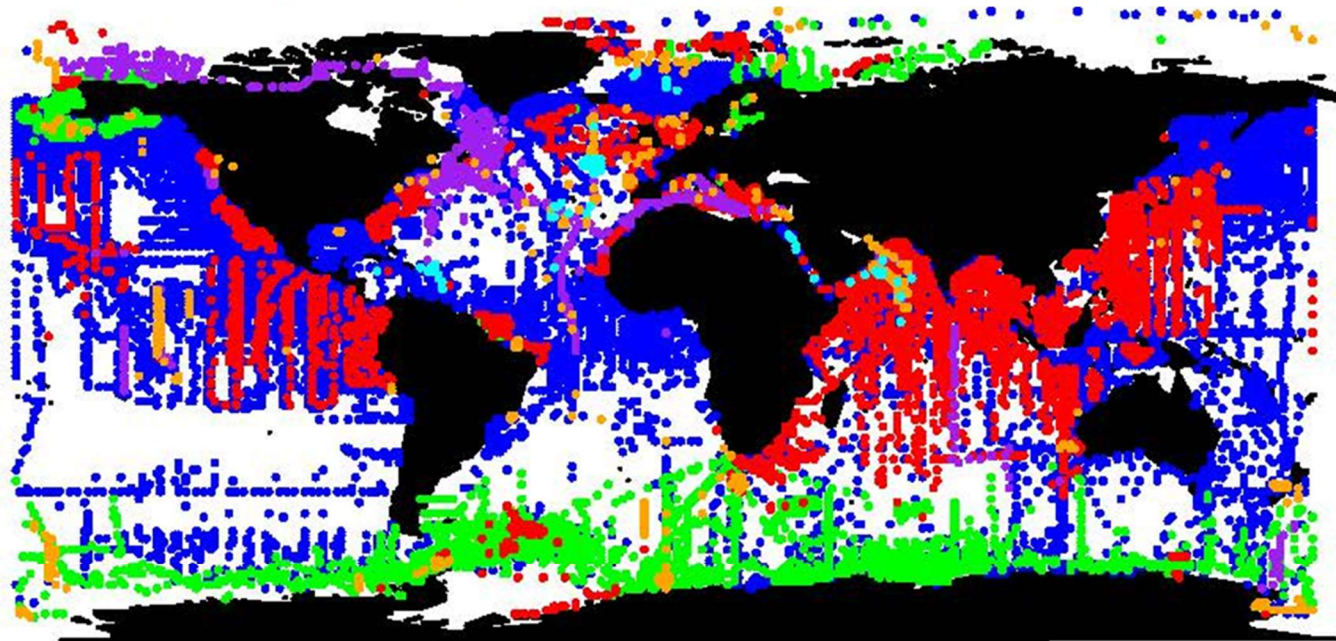
PANGAEA, cross-linking with journals

Open Access
Earth System
Science
Data

MAREDAT: towards a world atlas of MARine Ecosystem DATa



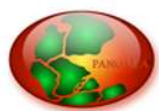
E. T. Buitenhuis¹, M. Vogt², R. Moriarty³, N. Bednaršek⁴, S. C. Doney⁵, K. Leblanc⁶, C. Le Quéré¹,
Y.-W. Luo⁵, C. O'Brien², T. O'Brien⁷, J. Peloquin², R. Schiebel⁸, and C. Swan²



- | | | |
|--------------------|-------------------|--------------------|
| ● Macrozooplankton | ● Mesozooplankton | ● Microzooplankton |
| ● Pteropods | ● Foraminifera | ● Bacteria |



PANGAEA, cross-linking with journals



All Water Sediment Ice Atmosphere
MAREDAT Search
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Logged in as **pesant** (log out, profile)

Always quote citation when using data!

110 datasets found on search for »maredat«

Show Map Google Earth Data Warehouse

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1. **Luo, Y; Doney, SC; Anderson, LA et al. (2013):** Global distributions of diazotrophs abundance and nitrogen fixation rates - Collection of source datasets - Contribution to the MAREDAT World Ocean Atlas of Plankton Functional Types
Related to: Luo, Y; Doney, SC; Anderson, LA et al. (2012): Database of diazotrophs in global ocean: abundance and nitrogen fixation rates. *Earth System Science Data*
Size: 94 datasets
doi:10.1594/PANGAEA.818214 - Score: 100% - Similar datasets
2. **Luo, Y; Doney, SC; Anderson, LA et al. (2013):** Global distributions of diazotrophs Gamma-Amino Acids abundance - Depth integrated values computed from a collection of source datasets - Contribution to the MAREDAT World Ocean Atlas of Plankton Functional Types
Supplement to: Luo, Y; Doney, SC; Anderson, LA et al. (2012): Database of diazotrophs in global ocean: abundance and nitrogen fixation rates. *Earth System Science Data*
Size: 2032 data points
doi:10.1594/PANGAEA.818208 - Score: 84% - Similar datasets
3. **Luo, Y; Doney, SC; Anderson, LA et al. (2012):** Global distributions of diazotrophs abundance (NetCDF) - Contribution to the MAREDAT World Ocean Atlas of Plankton Functional Types
Supplement to: Luo, Y; Doney, SC; Anderson, LA et al. (2012): Database of diazotrophs in global ocean: abundance and nitrogen fixation rates. *Earth System Science Data*
Size: 1728.0 kBytes
doi:10.1594/PANGAEA.774851 - Score: 81% - Similar datasets

COLLECTION of
SOURCE DATA SETS

HARMONISED
DATA SET

DATA PRODUCT
(NetCDF)

<http://doi.pangaea.de/10.1594/PANGAEA.818214>

<http://www.earth-syst-sci-data.net/4/47/2012/essd-4-47-2012.html>



PANGAEA, cross-linking with journals



Earth System Science Data
The Data Publishing Journal

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Discussion

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Abstract. Marine N_2 fixing microorganisms, termed diazotrophs, are a key functional group in marine pelagic ecosystems. The biological fixation of dinitrogen (N_2) to bioavailable nitrogen provides an important new source of nitrogen for pelagic marine ecosystems and influences primary productivity and organic matter export to the deep ocean. As one of a series of efforts to collect biomass and rates specific to different phytoplankton functional groups, we have constructed a database on diazotrophic organisms in the global pelagic upper ocean by compiling about 12 000 direct field measurements of cyanobacterial diazotroph abundances (based on microscopic cell counts or qPCR assays targeting the *nifH* genes) and N_2 fixation rates. Biomass conversion factors are estimated based on cell sizes to convert abundance data to diazotrophic biomass. The database is limited spatially, lacking large regions of the ocean especially in the Indian Ocean. The data are approximately log-normal distributed, and large variances exist in most sub-databases with non-zero values differing 5 to 8 orders of magnitude. Lower mean N_2 fixation rate was found in the North Atlantic Ocean than the Pacific Ocean. Reporting the geometric mean and the range of one geometric standard error below and above the geometric mean, the pelagic N_2 fixation rate in the global ocean is estimated to be 62 (53–73) Tg N yr⁻¹ and the pelagic diazotrophic biomass in the global ocean is estimated to be 4.7 (2.3–9.6) Tg C from cell counts and to 89 (40–200) Tg C from *nifH*-based abundances. Uncertainties related to biomass conversion factors can change the estimate of geometric mean pelagic diazotrophic biomass in the global ocean by about $\pm 70\%$. This evolving database can be used to study spatial and temporal distributions and variations of marine N_2 fixation, to validate geochemical estimates and to parameterize and validate biogeochemical models. The database is stored in PANGAEA (<http://doi.pangaea.de/10.1594/PANGAEA.774851>).

LINK TO DATA



PANGAEA, how do we do it?

PANGAEA workflow components:

- Client System – submitting data for publication (<http://www.pangaea.de>)



- Relational Database – archiving data



- Editorial System – curating data





PANGAEA, online editorial system (4D)

4D

File View Edit List Specials Import Aide

PANGAEA Editorial System

PROJECT

CAMPAIGN

EVENT

DATA SETS

Data Series

Institution

Staff

Basis

Reference

Method

Parameter

Feature Editor

Features

logged in as pesant

Data sets: 708443 of 708443

Search Config List

Dupont, S; Hall, E; Calosi, P et al

New New Parent Edit Edit in list

Author(s)

Müller, C

Müller, C; Grobe, H; Stein, R

Gonçalves-Araujo, R; Stedmon, CA; Heim, B et al

Monien, P; Schnetger, B; Brumsack, H-J

Monien, P; Schnetger, B; Brumsack, H-J

Matthias, I; Semmler, MSS; Giesecke, T

Kellerman, AM

Kellerman, AM; Kothawala, DN; Dittmar, T et al

Kellerman, AM

Dupont, S; Hall, E; Calosi, P et al

Lichtschlag, A; Donis, D; Janssen, F et al

Stendardo, I; Kieke, D; Rhein, M et al

Stendardo, I; Kieke, D; Rhein, M et al

Stendardo, I; Kieke, D; Rhein, M et al

Rhein, M; Kieke, D; Steinfeldt, R

Leckie, RM; Bralower, TJ; Cashman, KV

Kuhlmann, J; Asiola, A; Trincardi, F et al

Kuhlmann, J; Asiola, A; Trincardi, F et al

Kuhlmann, J; Asiola, A; Trincardi, F et al

Kuhlmann, J; Asiola, A; Trincardi, F et al

Kuhlmann, J; Asiola, A; Trincardi, F et al

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ID: 844880 - responsible: Yan Yang

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Basics Config References Details Coverage

Data series Edit in list Choices

Label	Scope	Parameter/Field	Unit	Orig. format	Param.ID	PI	M
Gullmarsfjord_OA.1	Data	Species			7053	Sam Dupont	nc
Gullmarsfjord_OA.2	Data	Treatment			96278	Sam Dupont	nc
Gullmarsfjord_OA.3	Data	Score		#0.00	83159	Sam Dupont	nc
Gullmarsfjord_OA.4	Data	Score		#0.00	83159	Sam Dupont	nc
Gullmarsfjord_OA.5	Data	Score		#0.00	83159	Sam Dupont	nc
Gullmarsfjord_OA.6	Data	Rank		#0	134105	Sam Dupont	nc
Gullmarsfjord_OA.7	Data	Percentage	%	#0.00	27332	Sam Dupont	nc

Configuration Edit in list Choices Related Metainformation

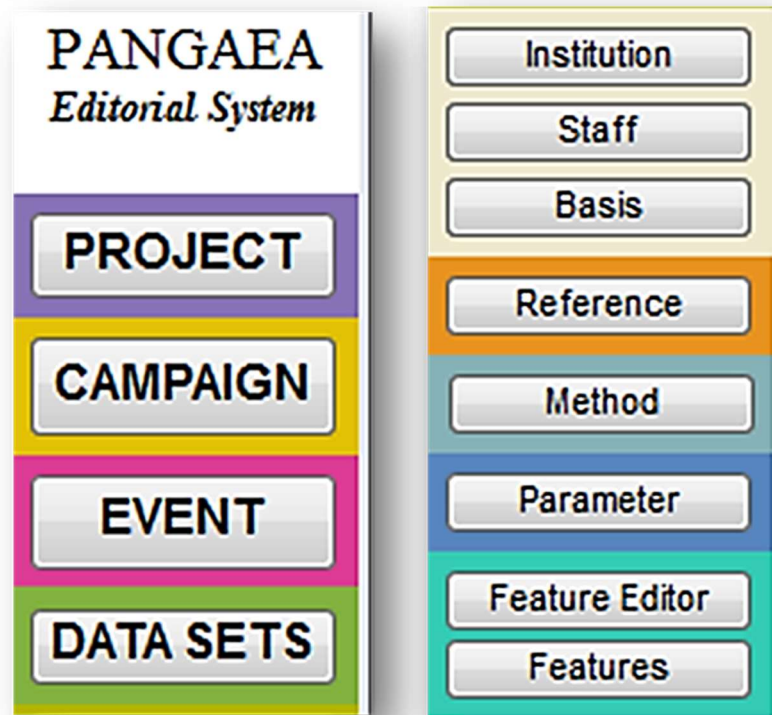
Label	Scope	Parameter/Field	Unit	Format	Param.ID	Comment
Gullmarsfjord_OA.1	Data	Species			7053	
Gullmarsfjord_OA.2	Data	Treatment			96278	
Gullmarsfjord_OA.3	Data	Score		#0.00	83159	
Gullmarsfjord_OA.4	Data	Score		#0.00	83159	
Gullmarsfjord_OA.5	Data	Score		#0.00	83159	
Gullmarsfjord_OA.6	Data	Rank			134105	
Gullmarsfjord_OA.7	Data	Percentage	%	#0.00	27332	
Gullmarsfjord_OA.8	Data	Salinity		#0	716	
Gullmarsfjord_OA.9	Data	Temperature, water	°C	#0	717	
Gullmarsfjord_OA.10	Data	pH		#0.00	764	
Gullmarsfjord_OA.11	Data	pH, standard deviation	±	#0.00	87459	
Gullmarsfjord_OA.12	Data	Alkalinity, total	µmol/kg	##0	80114	
Gullmarsfjord_OA.13	Data	Alkalinity, total, standard dev	±	#0	26954	
Gullmarsfjord_OA.14	Data	Partial pressure of carbon diox	µatm	##0	49313	

FR 16:40 14/04/2015



PANGAEA, Data Model

Metadata components



Data components

- Static (netCDF, ODV, videos, images, audio, etc...)
- Dynamic (imported in PANGAEA -> aggregation/disaggregation)

Controlled vocabularies, registers and ontologies



Platforms, devices, parameters

The screenshot displays the SeaDataNet website interface. At the top, the PANGAEA logo is on the left, and the text "PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT" is on the right. Below this is the "SeaDataNet" logo. A navigation bar contains links: Overview, Metadata (highlighted), Data Access, Standards & Software, and Products. On the left side, a vertical menu lists: EDMO, EDMED, EDMERP, CSR, EDIOS, How to contribute?, News, and a banner for "New release of MIKADO Version 2.5 available". The main content area is titled "SeaDataNet2 > Metadata" and "METADATA SERVICES". It features a section for "Marine Data Centres (in situ NODCs and satellite DC providing Transnational acces)" with a downward arrow. Below this are three columns: "Observations" with "Cruise Summary Reports CSR" and "Permanent Observing Systems EDIOS"; "Data management" with "Marine Research Organizations EDMO"; and "Data" with a map visualization. The bottom of the page shows a SeaDataNet banner and a copyright notice for 2014.



Geographic, political & ecological regions



Marineregions.org

towards a standard for georeferenced marine names

[About](#)[Marine Gazetteer](#)[EEZ boundaries](#)[Sources](#)[Statistics](#)[Downloads](#)

About Marine Regions

Marine Regions is a standard list of marine georeferenced place names and areas. It integrates and serves geographic information from the VLIMAR Gazetteer and the MARBOUND database and proposes a standard of marine georeferenced locations, boundaries and regions.

[Read more...](#)

Statistics

25,546 marine georeferenced places
32,675 marine place names
5,596 polygons of geographic places
12 marine geographic regional/global classifications
Maritime Boundaries (EEZ) of the world

<http://www.marineregions.org/>



Taxonomy of marine organisms



WoRMS

World Register of Marine Species

- Home
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WoRMS taxon details

Calanus finmarchicus (Gunnerus, 1770)

AphiaID: 104464

Classification: Biota > [Animalia](#) (Kingdom) > [Arthropoda](#) (Phylum) > [Crustacea](#) (Subphylum) > [Maxillopoda](#) (Class) > [Copepoda](#) (Subclass) : [Gymnoplea](#) (Superorder) > [Calanoida](#) (Order) > [Calanidae](#) (Family) > [Calanus](#) (Genus)

Status	accepted
Record status	Checked by Taxonomic Editor
Rank	Species
Parent	Calanus Leach, 1816
Synonymised taxa	Calanus arietis Templeton, 1836 Calanus borealis Lubbock, 1854 Calanus elegans Lubbock, 1854 Calanus finmarchicus helgolandicus Tanaka, 1956 Calanus finmarchicus telezkensis Stalberg, 1931 Calanus mundus Dana, 1849 (Giesbrecht, 1893:89)

<http://www.marinespecies.org/>



Chemical substances



ChEBI

The database and ontology of Chemical Entities of Biological Interest

- Page d'Accueil
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 - Parcourir
 - Submit
 - Téléchargements
 - Documentation
 - Coin des Developpeurs
 - Tools
 - Preferences
 - Contacter ChEBI
-
- Version 'impraimable'

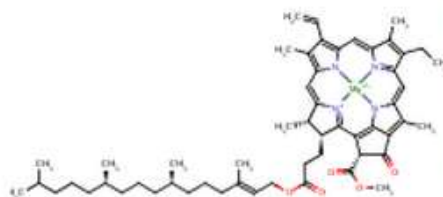
EBI > Databases > Small Molecules > ChEBI > Main

chlorophyll a (CHEBI:18230)

Main

ChEBI Ontology

Automatic Xrefs



[ChEBI Name](#)

chlorophyll *a*

[ChEBI ID](#)

CHEBI:18230

[ChEBI ASCII Name](#)

chlorophyll a

[Stars](#)

☆☆☆ This entity has been manually annotated by the ChEB

[Secondary ChEBI IDs](#)

CHEBI:13974, CHEBI:3631, CHEBI:23157, CHEBI:48807

[Supplier Information](#)

[eMolecules:29479434](#), [eMolecules:26750366](#)

See structure as: ☒ Image ☐ Applet

[Download Molfile](#)

- [Find compounds which contain this structure](#)
- [Find compounds which resemble this structure](#)

[more structures >>](#)

<http://www.ebi.ac.uk/chebi/>



Environmental features

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Environment Ontology

[Summary](#) [Classes](#) [Notes](#) [Mappings](#) [Widgets](#)

Details

ACRONYM	ENVO
VISIBILITY	Public
BIOPORTAL PURL	http://purl.bioontology.org/ontology/ENVO
DESCRIPTION	Ontology of environmental features and habitats
STATUS	Production
FORMAT	OBO
CONTACT	Envo Administrators, obo-envo@lists.sourceforge.net
HOME PAGE	http://environmentontology.org/
PUBLICATIONS PAGE	
DOCUMENTATION PAGE	http://environmentontology.org/
CATEGORIES	
GROUPS	Biodiversity Information Standards

<http://bioportal.bioontology.org/ontologies/ENVO>



Dissemination – to ICSU's WDS

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ICSU
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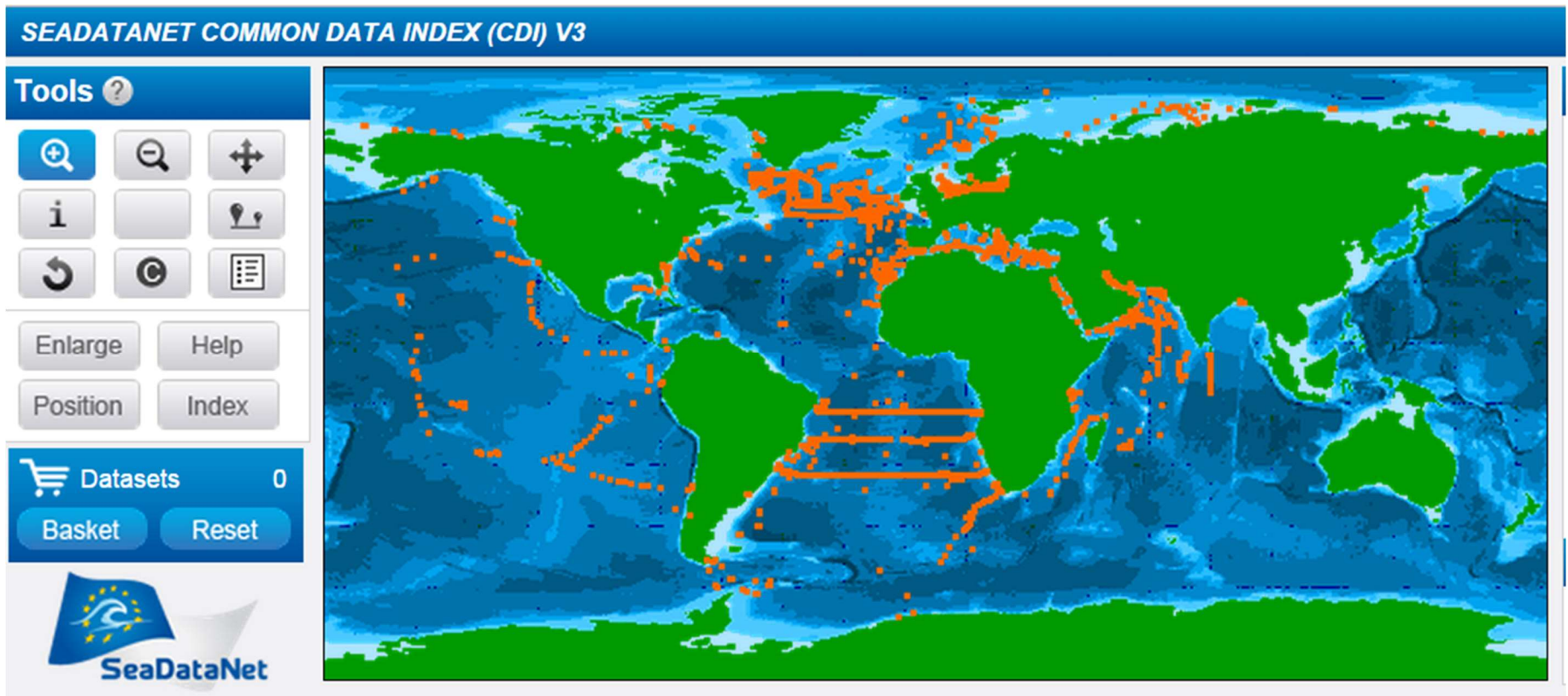
Search Results: 339506 datasets found! (Query time: 1.196 s) [Simple Search](#) | [Show/Hide Query Window](#)

<< PREV | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | NEXT >>

- WOCE Upper Ocean Thermal, UOT (2005): Water temperature XBT profiles from cruise PGBB99 (DCQC)**
Data Center: PANGAEA: Data Publisher for Earth & Environmental Science
Parameters: Temperature, water, Sample code/label
Data Description - Data Download - Score: 100%
- Hüls, Matthias (1999): Distribution of planktic foraminifera in surface sediments**
Data Center: PANGAEA: Data Publisher for Earth & Environmental Science
Parameters: Foraminifera, planktic; Globigerinella aequilateralis; Globigerina bulloides; Globigerina calida; Globorotalia cavemula; Globigerinoides conglobatus; Globorotalia crassaformis; Sphaeroidinella dehiscens; Globigerina digitata; Globoquadrina dutertrei; Globigerina falconensis; Globigerinita glutinata; Globorotalia hirsuta; Turborotalia humilis; Globorotalia inflata; Globorotalia menardii; Candeina nitida; Pulleniatina obliquiloculata; Neogloboquadrina pachyderma sinistral; Neogloboquadrina pachyderma dextral and dutertrei integrade; Globigerina quinqueloba sinistral; Globigerina quinqueloba dextral; Globigerina quinqueloba; Globigerinoides ruber pink; Globigerinoides ruber white; Globigerina rubescens; Globigerinoides trilobus sacculifer; Globigerinoides sacculifer sac; Globorotalia scitula; Globigerinoides tenellus; Globorotalia truncatulinoides sinistral; Globorotalia truncatulinoides dextral; Globorotalia truncatulinoides; Globorotalia tumida; Orbulina universa; Globigerinita uvula; Neogloboquadrina pachyderma dextral
Data Description - Data Download - Score: 100%
- Anonymous (2014): Journal "Berichte zur Polar- und Meeresforschung = Reports on Polar and Marine Research" in Open Access (2000-2007, Volume 377 to 568) ISSN 1618-3193**
Data Center: PANGAEA: Data Publisher for Earth & Environmental Science



Dissemination – to SeaDataNet



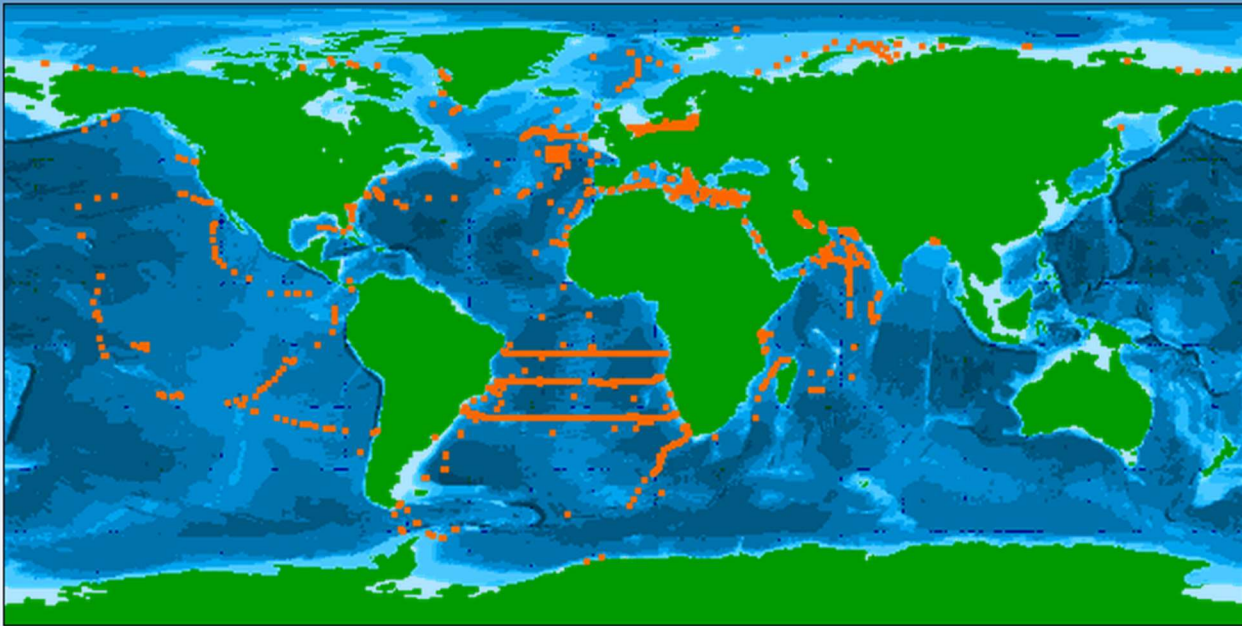


Dissemination – to EMODNet Chemistry

EMODnet
 European Marine
Observation and
Data Network

Go to: website

Portal for Chemistry
Data Discovery and Access Service



Layer control ? Expand Add layer
☐ CDI entry Points ?
☐ CDI entry Tracks ?
☐ CDI entry Areas ?

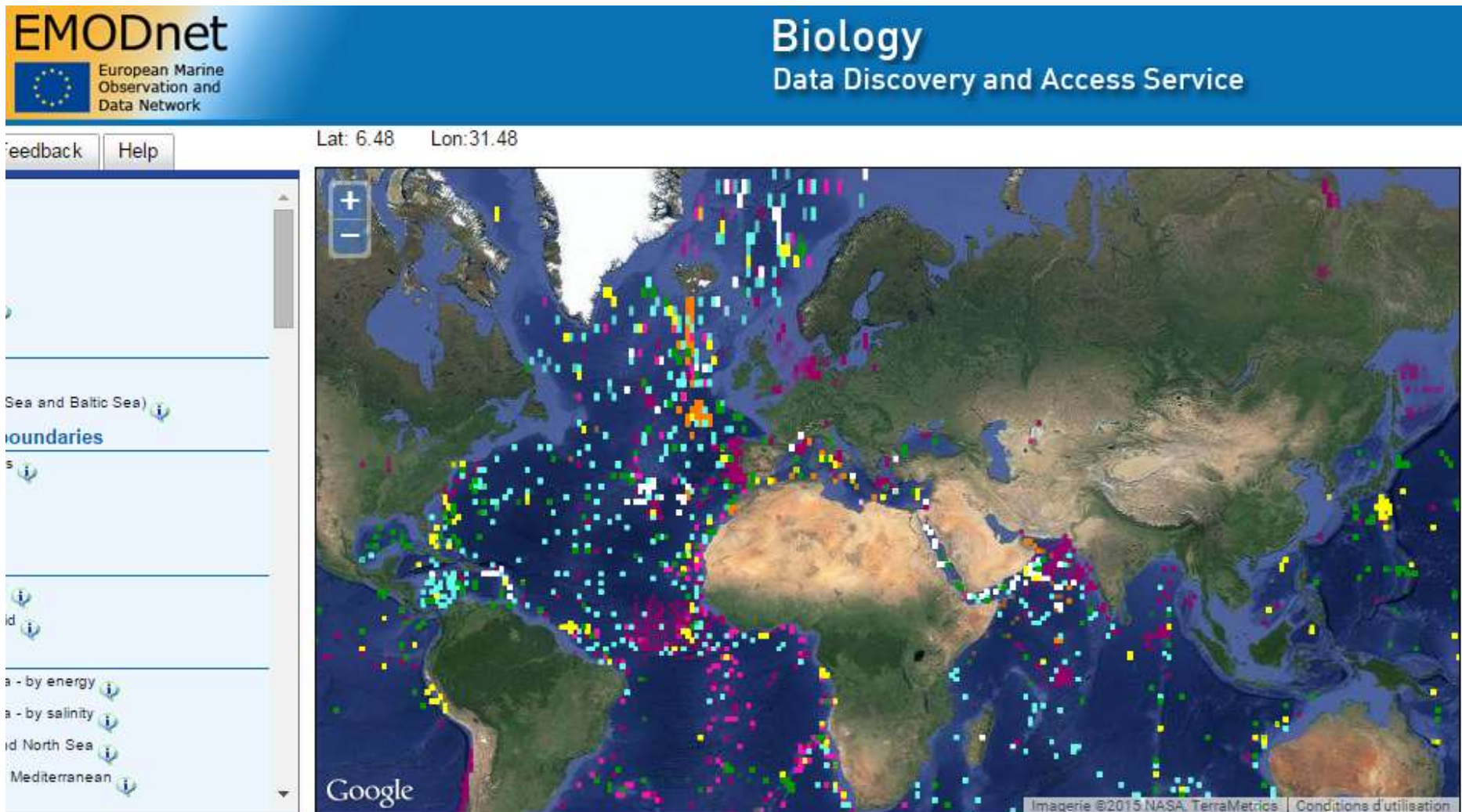
☐ Grid Lines ? ? ?
☐ Regional sea ? ? ?
☐ Regional sea labels ? ? ?
☐ Main sea ? ? ?
☐ Main sea labels ? ? ?

☒ Display all selected records
☐ Only selected records in results list

Listing results
☒ 20 ☐ 100 ☐ 1000 records Go

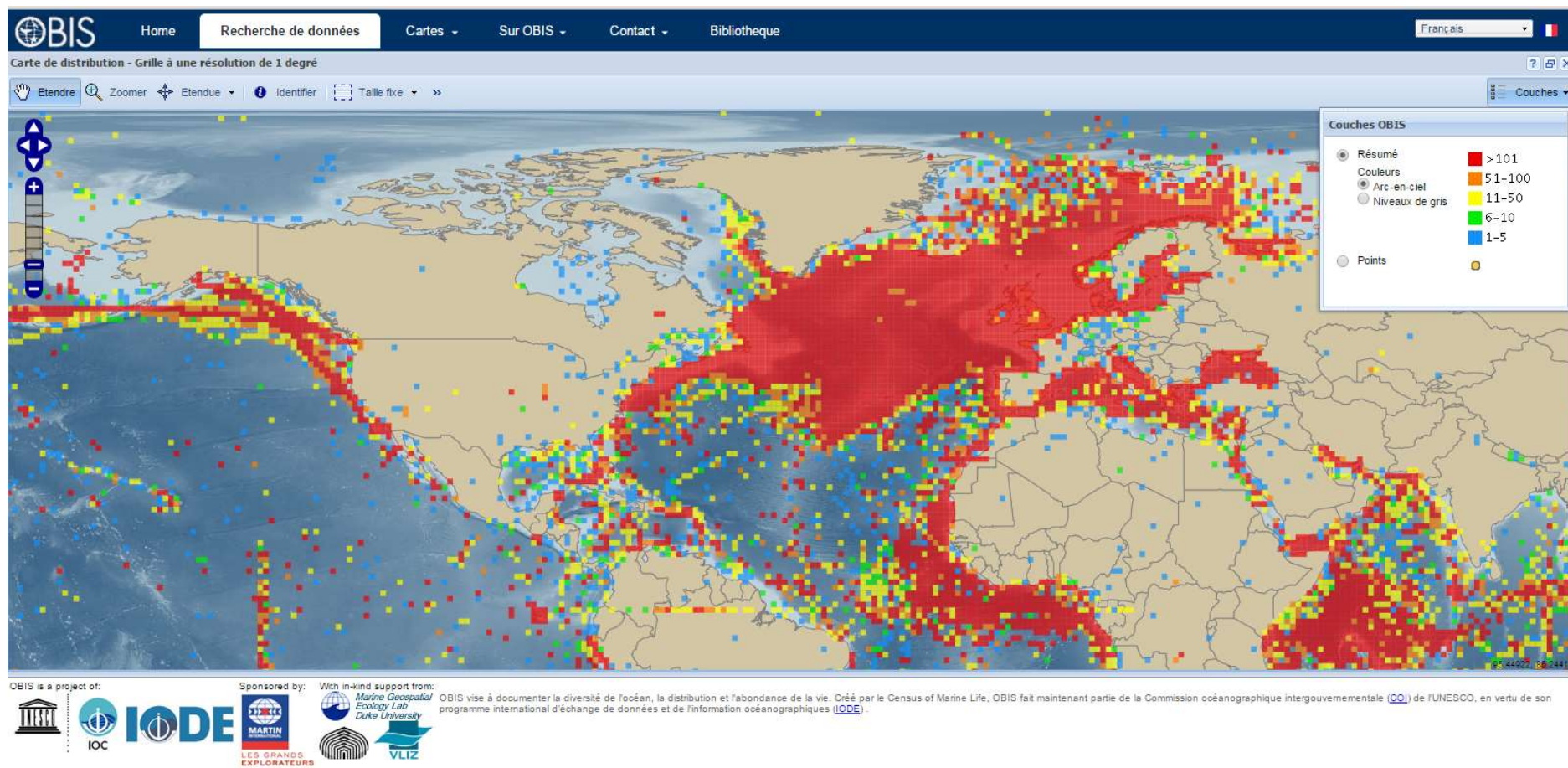


Dissemination – to EMODNet Biology





Dissemination – to OBIS





Dissemination – to ENA (genomics)

EMBL-EBI

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European Nucleotide Archive

Search

Examples: B000005, histone

Advanced Sequence

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Please subscribe to ena-announce mailing list here: listserv.ebi.ac.uk/mailman/listinfo/ena-announce to receive alerts about ENA services.

Sample: SAMEA2622097

marine metagenome; TARA_20110415T1245Z_100_EVENT_PUMP_P_S_(5 m)_BACT_NUC-RNA(10L-or-10min)_W0.22-3_TARA_B100000963

View: XML

Send Feedback

Download: XML

Submitting Centre

Genoscope

Organism

[marine metagenome](#)

Secondary accession(s)

ERS491836

Description

"This sample (TARA_B100000963) was collected during the Tara Oceans expedition (2009-2013) at station TARA_100 (latitudeN=-13.0023, longitudeE=-95.9759) on date/time=2011-04-15T12:45, using a PUMP (High Volume Peristaltic Pump). The sample material (saline water (ENVO:00002010), including plankton (ENVO:xxxxxxx)) was collected at a depth of 3-7 m, targeting a surface water layer (ENVO:00002042) in the marine biome (ENVO:00000447). The sample was size-fractionated (0.22-3 micrometres), preserved on board with RNA-Later, and stored in liquid nitrogen for later detection of prokaryote nucleic acid sequences by pyrosequencing methods, and for later metagenomics/transcriptomics analysis. This sample has replicate sample(s): TARA_B100000964."

Lineage

[unclassified sequences](#), [metagenomes](#), [ecological metagenomes](#)

Navigation

Read Files

Attributes

<http://www.ebi.ac.uk/ena/data/view/ERS491836>



Dissemination – to MEGX (genomics)





PANGAEA, how can you find/get data?

Google-like portal (<http://www.pangaea.de/>)

- Environmental Spheres
- Help
- Map data sets
- Google Earth
- Small magnifier glasses
- View data set in HTML tables
- Download data set

Advanced search (<http://www.pangaea.de/advanced/advsearch.php>)

Data warehouse (once you have selected a list of data sets)

Web services

- <https://ws.pangaea.de/dds-fgp/>
- <https://ws.pangaea.de/dds-fdp/>



PANGAEA, Conclusion

You can access data published at PANGAEA using:

- PANGAEA Google-like web portal
- PANGAEA Advanced search web portal
- PANGAEA Data Warehouse web portal
- PANGAEA Web Services

And via other marine data infrastructures:

- ICSU's World Data System
- SeaDataNet
- EMODNet
- OBIS
- ENA
- MEGX.net

etc...

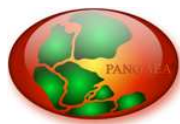


PANGAEA, thank you

Thank you for your kind attention

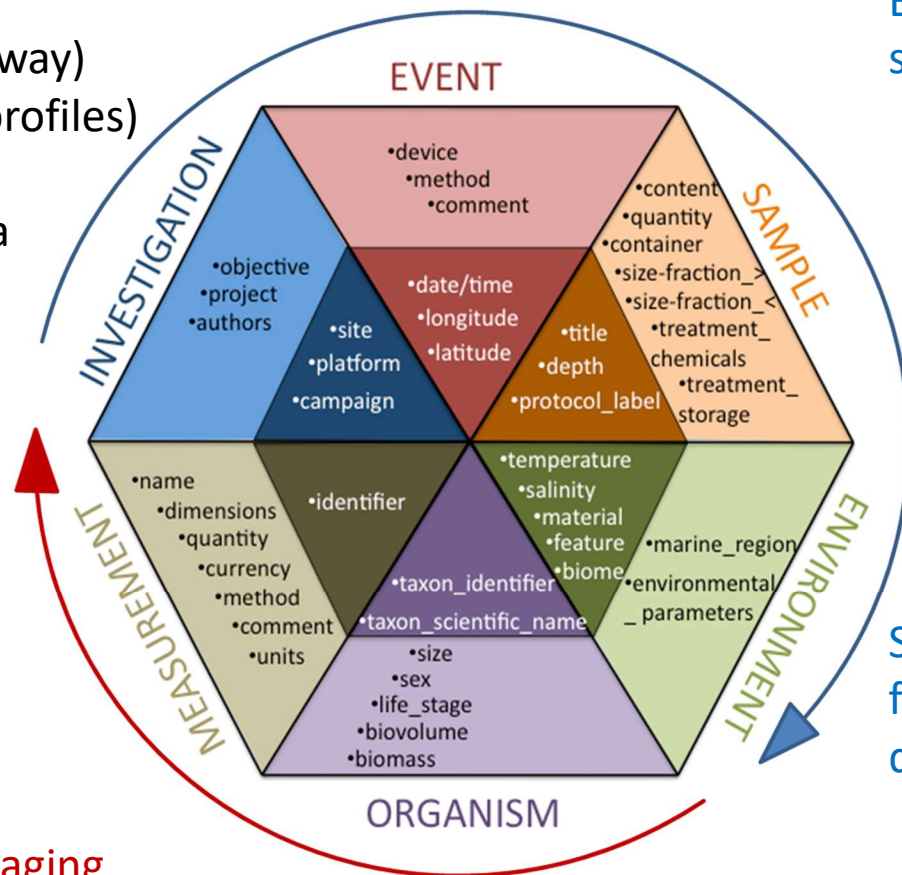
Environmental data
published at PANGAEA:

- Metadata
- Sensors (underway)
- Sensors (vert. profiles)
- Water samples
- Contextual data
- more to come



Contextual environmental
data disseminated to
EBI/ENA for each sequence
submitted by Genoscope:

- Sample metadata
- Temperature
- Salinity
- Oxygen
- Nutrients
- Chlorophyll



Selected environmental data
from all sampling sites
disseminated to SeaDataNet:

- Temperature
- Salinity
- Oxygen
- Nutrients
- Chlorophyll

Taxonomic and imaging
data to be published at
PANGAEA and
disseminated to OBIS



STEP 1. Submit metadata & data files online



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☒ Author(s)*

Please, enter the author(s) (the principal investigators) for the data set(s) you want to submit.
One author per line; example: *Smith, Joe Peter*

☒ Title

The title should ideally reflect what has been measured, observed, or calculated, when, where, and how.

☒ Description

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STEP 2. Communication Curator-Author online

 PANGAEA Data Archiving & Publication / PDI-916

Data submission 2011-12-08T15:39:49Z (Dr Chris Yesson, Zoological Society of London)

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Details

Type:	+ Data Submission	Status:	CLOSED
Priority:	↑ Major	Resolution:	Done
Labels:	CoralFISH		
Author(s):	▼ Yesson, C Taylor, ML Tittensor, DP Davies, AJ, Guinotte, J Baco, A Black, J Hall-Spencer, JM Rogers, AD		
Title:	Global habitat suitability of cold water octocorals		
Keywords:	Project CoralFISH (Stéphane PESANT)		
License:	CC-BY: Creative Commons Attribution 3.0 Unported		
Data used/published in the following article/manuscript:	Yesson C, Taylor ML, Tittensor DP, Davies AJ, Guinotte J, Baco A, Black J, Hall-Spencer JM, Rogers AD. In press. Global habitat suitability of cold water octocorals. Journal of Biogeography.		

People

Assignee:	 Stephane Pesant
Reporter:	 Dr Chris Yesson
Watchers:	1 Start watching this issue

Dates

Created:	2011-12-08 18:01
Updated:	a minute ago
Resolved:	a minute ago

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Data submission 2011-12-08T15:39:49Z (Dr Chris Yesson, Zoological Society of London)

 Edit  Comment  Assign  More  Reopen Issue 

▼  **Stephane Pesant** added a comment - 2012-01-31 11:29

Hi Chris,

The dataset can now be found at: <http://doi.pangaea.de/10.1594/PANGAEA.775081>

It currently is not in the system, but we will upload the raster files and replace that link.

Cheers,
Stéphane

▼  **Dr Chris Yesson** added a comment - 2012-01-31 11:56

Thanks Stephane

■ Chris

▼  **Stephane Pesant** added a comment - 2012-01-31 12:12

Hi Chris,

Is it still time to insert the dataset citation in the paper?

Also, I see in the paper that you gathered observations from different sources to produce the maps (evidently!)... we could archive these datasets, giving credits to their authors and adding these datasets as reference for your dataset.

Stéphane

STEP 3. Publication



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Always quote citation when using data!

Data Description

RIS BibTeX

- Citation:** Yesson, C et al. (2012): Global raster maps indicating the habitat suitability for 7 suborders of cold water octocorals (Octocorallia found deeper than 50m). doi:10.1594/PANGAEA.775081, Supplement to: **Yesson, Chris; Tittensor, Derek P; Davies, Andrew; Guinotte, John M; Baco, Amy; Black, Julie; Hall-Spencer, Jason M; Rogers, Alex David (2012): Global habitat suitability of cold-water octocorals. *Journal of Biogeography*, 39(5), doi:10.1111/j.1365-2699.2011.02681.x**
- Abstract:** This dataset consists of global raster maps indicating habitat suitability for 7 suborders of cold water octocorals (Octocorallia found deeper than 50m). Maps present a relative habitat suitability index ranging from 0 (unsuitable) to 100 (highly suitable). Two maps are provided for each suborder (Alcyoniina, Calcaxonia, Holaxonia, Scleraxonia, Sessiliflorae, Stolonifera, and Subselliflorae). A publicly accessible low resolution map (grid size 10x10 arc-minutes) and a restricted access high resolution map (grid size 30x30 arc-seconds). Maps are geotiff format incorporating LZW compression to reduce file size.
- Please contact the corresponding author (Chris Yesson) for access to the high resolution data.
- Project(s):** [Ecosystem based management of corals, fish and fisheries in the deep waters of Europe and beyond](#) (CoralFISH) 🔍
- License:**  Creative Commons Attribution 3.0 Unported
- Size:** unknown

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