Open Access voor wetenschappelijke data in VLIZ

“Archiveren, documenteren, publiceren en herverdelen”

EWI-focus
Van Open Access naar Open Data
uitdagingen voor het beleid
17-09-2014

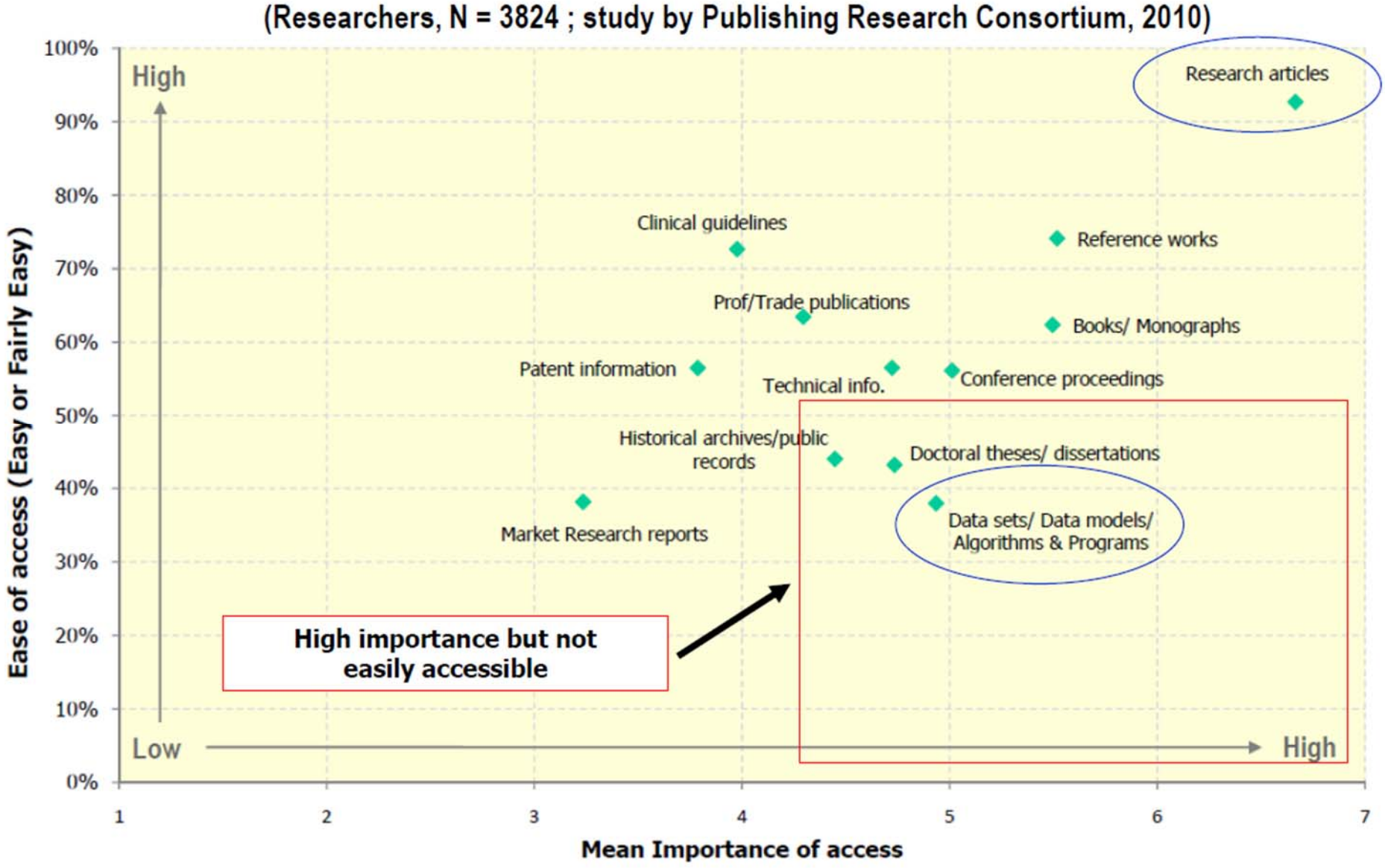
Vlaams instituut voor de zee

Inleiding

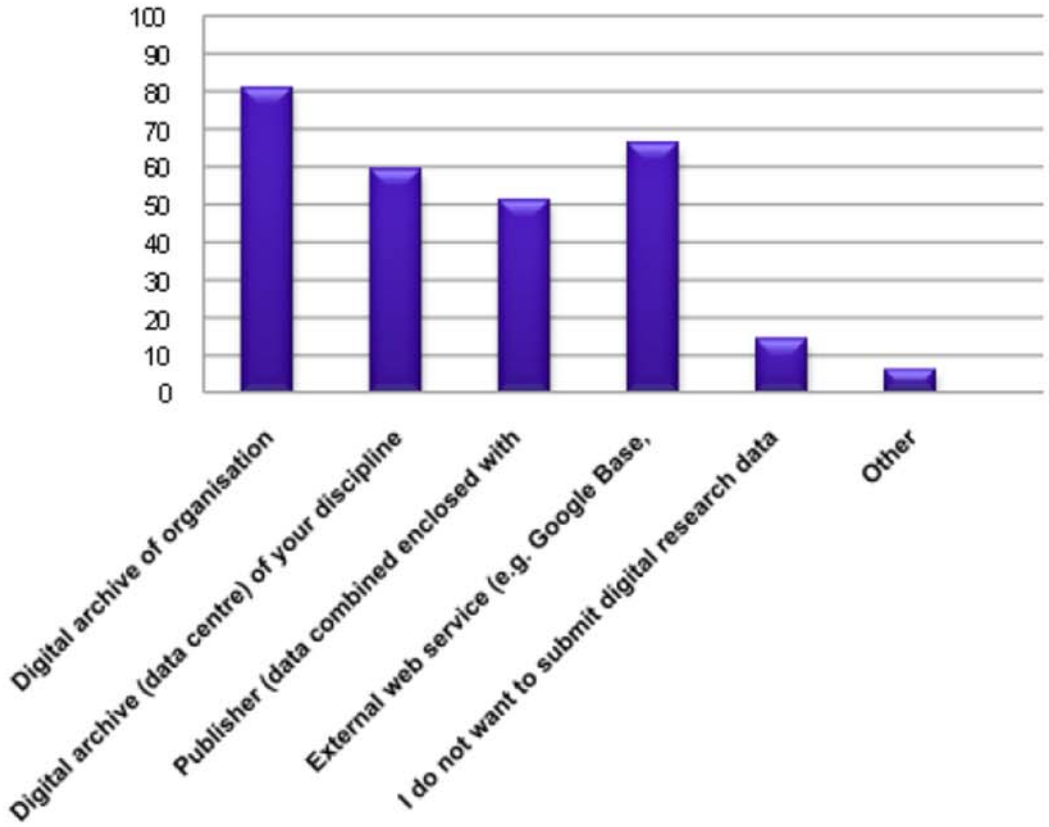
Het proces

- Archiveren
- Documenteren
- QC & Integratie
- Publiceren
- Herverdelen

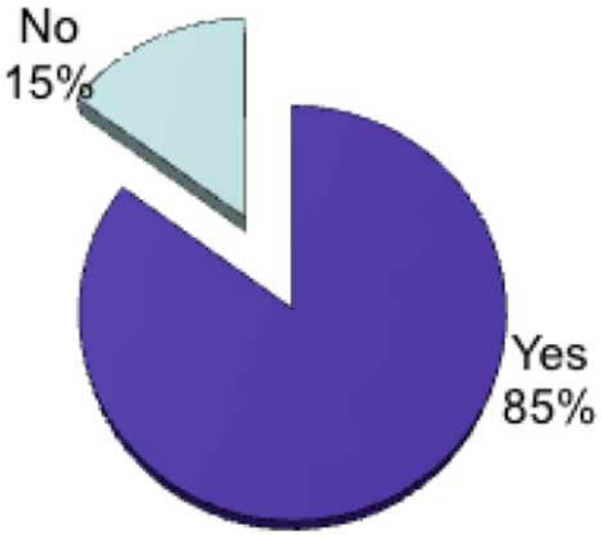
Het databeleid


(Researchers, N = 3824 ; study by Publishing Research Consortium, 2010)
Ease of access (Easy or Fairly Easy)
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
High
Low
1
2
3
4
5
6
7
High
Mean Importance of access
Research articles
Clinical guidelines
Reference works
Prof/Trade publications
Books/ Monographs
Patent information
Technical info.
Conference proceedings
Historical archives/public records
Doctoral theses/ dissertations
Data sets/ Data models/ Algorithms & Programs
Market Research reports
High importance but not easily accessible

Where would you be willing to submit your research data?



Do you think it is useful to link underlying research data with formal literature?



(Researchers, N=1202; study by EU PARSE.Insight, 2009)

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

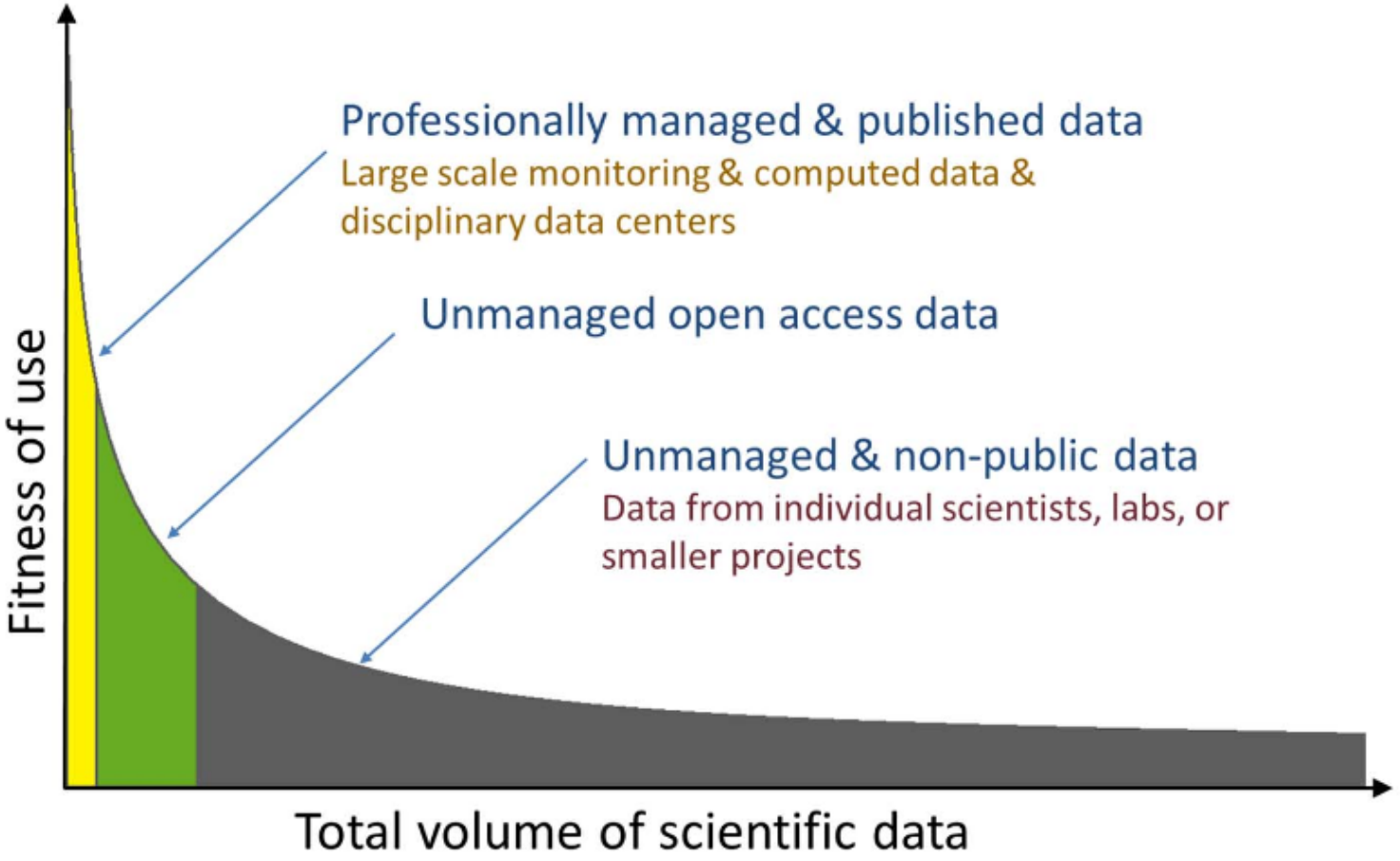
36% their data are easily accessible **to other scientists**

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



Het proces

Archiveren

Documenteren

Quality control

Validering

Publiceren

Integratie

Product generation

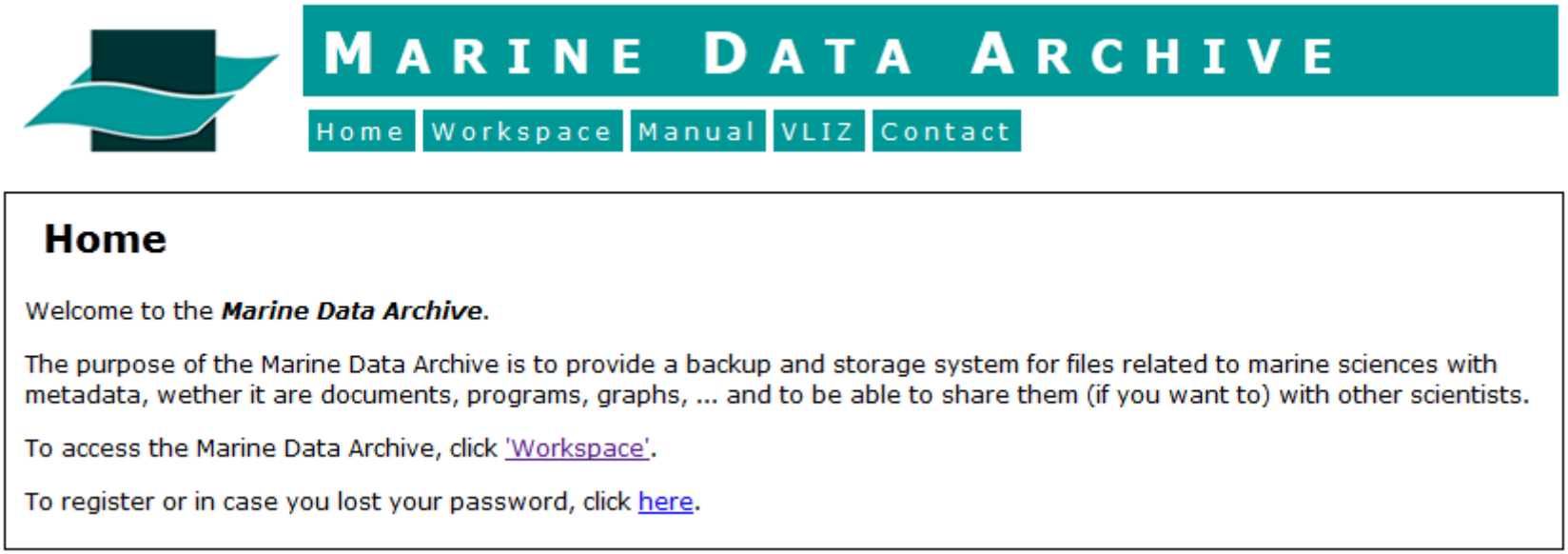
Quality control

Herverdelen

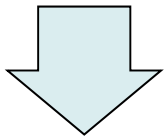
Archiveren

- Fysieke opslag voor data files
- Archiveringsprocedures
- Backup procedures

http://mda.vliz.be



Archiveren

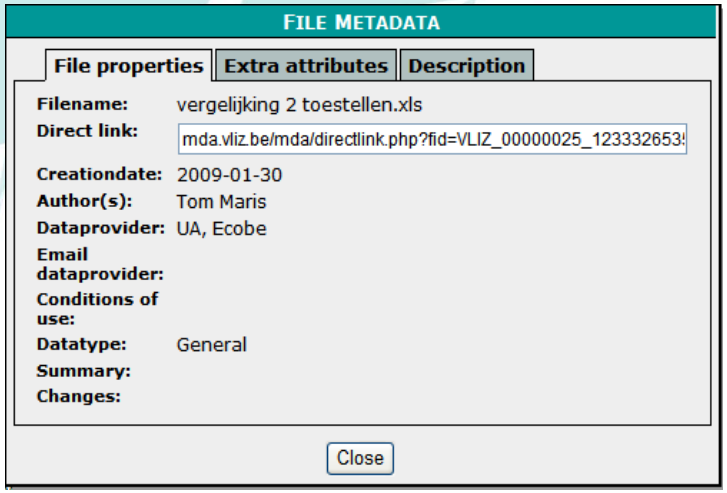


Documenteren

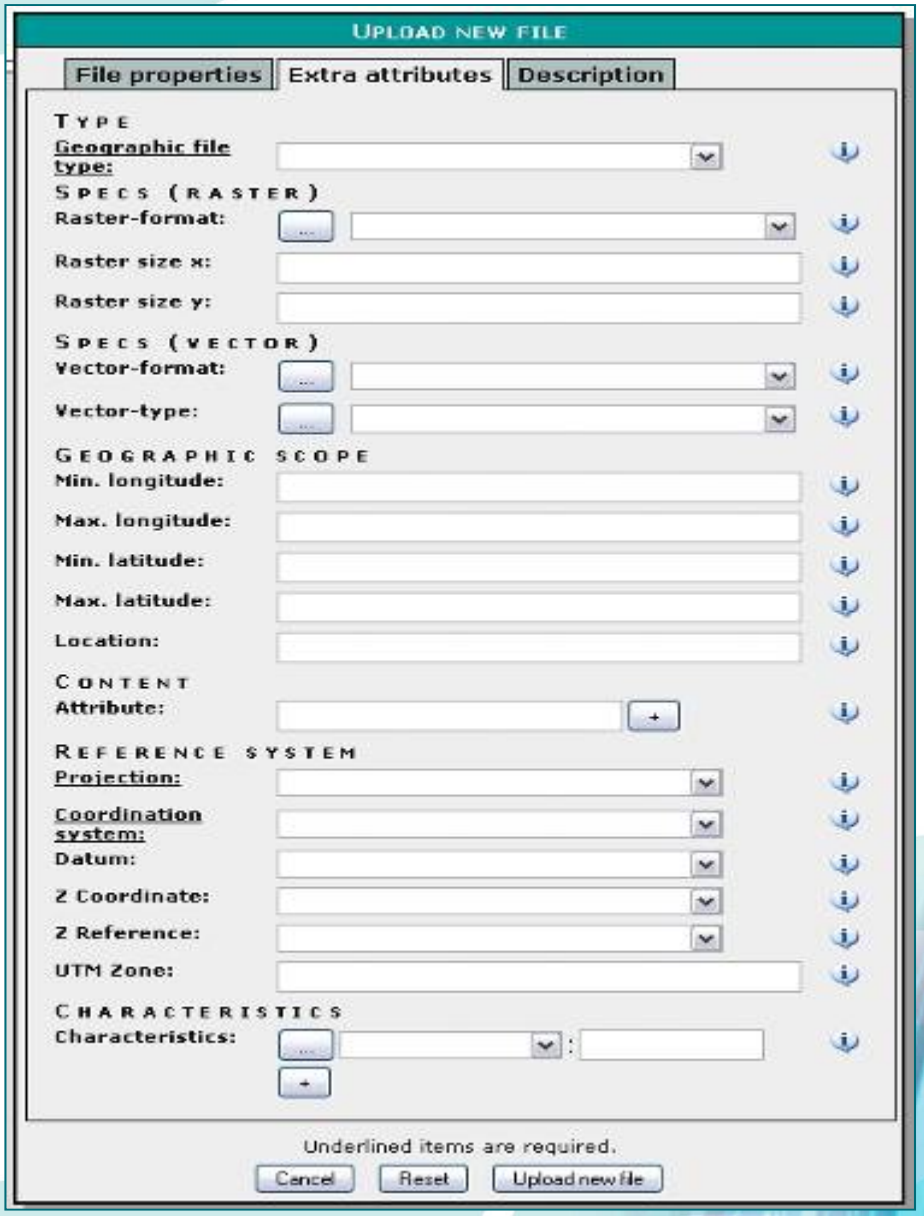
Technische metadata:

- **Opslagsoftware**
- **Checksum & size**
- **‘Material & methods’**
- **Hiërarchie**
- **Eenheden**
- **Formules, berekeningen**
- **…**

Doel:
Correcte interpretatie & herbruikbaarheid

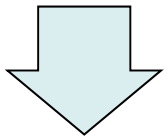


Documenteren



Vlaams instituut voor de zee

Archiveren



Documenteren

Discovery metadata:

- **Verantwoordelijke(n)**
- **Toegangsrechten**
- **Parameters**
- **Dekking: tijd, geografie, taxonomie, …**
- **Relaties met andere datasets**
- **Publicaties**

Doel:
Maximale “search & retrieval” mogelijkheden

General

Person filling in this form* | Institute

Contact email*

Full name of the dataset*

Citation*

Access Constraints

Dataset version | Version date: 2014-06-23

Abstract*

Extensive description of the dataset

Keyword(s) [lookup]

Habitat | Marine waters | Brackish waters | Fresh waters

Status of the data collection

Basis of the distribution records

Temporal cover

Date of first record | year | month | day

Date of last record | year | month | day

Temporal resolution: Unknown

Reference

Reference(s) of publication(s) that was based on this dataset (one reference per textfield) | Remove | Add

Reference(s) of publication(s) that describe this dataset in detail (one reference per textfield) | Remove | Add

Format in which the dataset is available

EurOBIS

Will the dataset be made available to EurOBIS?

How will the dataset be transferred to EurOBIS?

Upload dataset file (max. 10MB) | Browse... | No file selected.

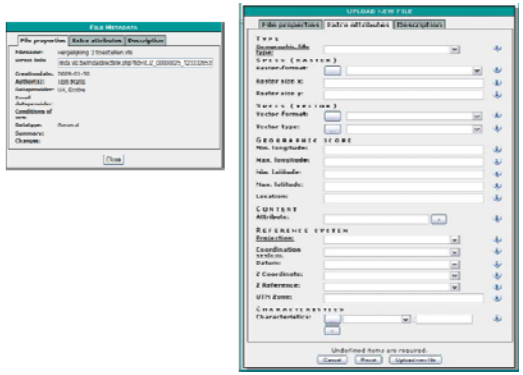
Comments

Is the dataset complete? Any additional comments?

Submit

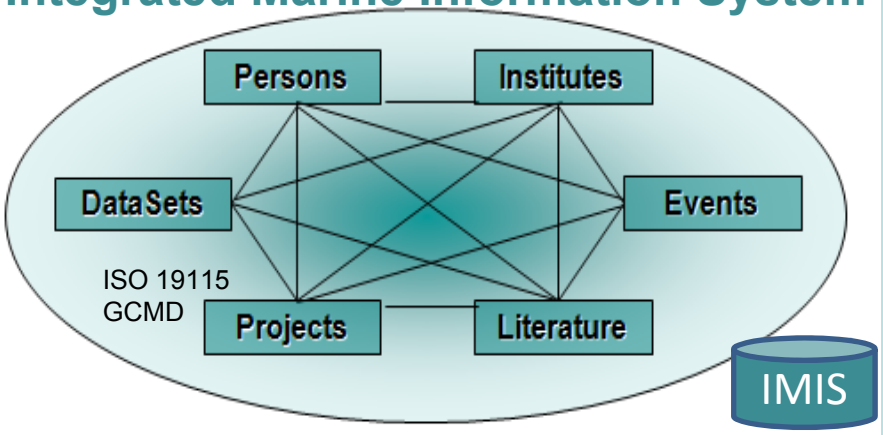
Archiveren

Marine Data Archive



Documenteren

Integrated Marine Information System



Data Publicatie

Quality control

Validation

Publiceren

+ Data citatie
+ DOI

+ Open Acces

DataCite

4 stappen naar DOI registratie

1: **Affiliëren bij een DataCite** member

VLIZ → TU Delft (http://datacite.tudelft.nl/info/home/)

2: **Uitwisseling XML** met:

- **DOI** = fixed prefix voor uw datacenter + identifier naar eigen keuze

- **URL** van de **landingspagina**
  = webpagina met databeschrijving en data download link

- **Basismetadata** voor citatie
  - Data creator(s)
  - Publication year
  - Dataset title
  - Dataset publisher

- Optionele metadata

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<metadata>



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<publicationYear>2014</publicationYear>
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</resourceType>
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</metadata>
</DOIdata>

</resources>
```

4 stappen naar DOI registratie

3: DOI is **actief** onmiddellijk na XML uitwisseling

4: DataCite discovery record gecreëerd na enkele dagen
bij: http://search.datacite.org/

Verschillende versies van een dataset met elk hun eigen citatie (Data Cite) en DOI-link.
DOI kan refereren naar verschillende versies van de data in het archief.

MACROBEL: Long term trends in the macrobenthos of the Belgian Continental Shelf [Lange-termijn trends in het macrobenthos van de Belgische Continentale Plaat]

Degraer, S.; Wittoeck, J.; Appeltans, W.; Cooreman, K.; Deprez, T.; Hillewaert, H.; Hostens, K.; Mees, J.; Vanden Berghe, E.; Vincx, M. (2013) Macrobel: Long term trends in the macrobenthos of the Belgian Continental Shelf. Oostende, Belgium. doi: xxxxxx

citatie

Other versions

Degraer, S.; Wittoeck, J.; Appeltans, W.; Cooreman, K.; Deprez, T.; Hillewaert, H.; Hostens, K.; Mees, J.; Vanden Berghe, E.; Vincx, M. (2006) Macrobel: Long term trends in the macrobenthos of the Belgian Continental Shelf. Oostende, Belgium. doi: xxxxx223d

Degraer, S.; Wittoeck, J.; Appeltans, W.; Cooreman, K.; Deprez, T.; Hillewaert, H.; Hostens, K.; Mees, J.; Vanden Berghe, E.; Vincx, M. (2001) Macrobel: Long term trends in the macrobenthos of the Belgian Continental Shelf. Oostende, Belgium. doi: xxxxx12153

Citatie en links naar andere (oudere) versies van de dataset.

Contact: Magda Vincx

DOI link naar de MDA-data versie

Data storage

Availability: unrestricted

EurOBIS EMODnet Archive (mda)

Description

The global objective of this project is to deliver a substantial contribution to the knowledge of the long term variability in the biodiversity of the macrobenthos and the relationship with anthropogenic activities on the Belgian Continental Shelf. [meer]

Ocean acidification effects on nitrification in natural sediment communities from Belgian part of the North Sea

Citeerbaar als data publicatie

Braeckman, U.; Marine Biology Research Group - Ugent, Belgium (2014). Ocean acidification effects on nitrification in natural sediment communities from Belgian part of the North Sea doi:10.14284/1

MDA

Verantwoordelijken | Parameters | Fysische dataset

Data type: Data
Data herkomst: Onderzoek: labo-experiment
Status: Afgelopen
Restrictieregel: Vrij beschikbaar voor academisch gebruik

Abstract: Laboratory measurements of biogeochemical fluxes in acidified and natural sediments from the Belgian part of the North Sea

Habitat: Marien
Thema's: Watersamenstelling > Bulk chemie (bv. pH, TCO2), Watersamenstelling > Nutrienten
Trefwoorden: Benthos, Fine sandy sediments, Ocean acidification, Permeable sediments, Phytoplankton blooms

Beschrijving:

The dataset contains measuren http://doi.org/10.14284/1 tation 115bis and 330 in February and April 2012 under natural an er compared to natural conditions (~ pH 8.1), which is the situatio , as well as chlorophyll-a content of the sediment.

Verantwoordelijke

Top | Parameters | Fysische dataset

- Universiteit Gent; Faculteit Wetenschappen; Vakgroep Biologie; Onderzoeksgroep Mariene Biologie (MARBIOL), meer
  - Braeckman, Ulrike, contact, data creator

Spreiding in de tijd:

- 13 Februari 2012 - 8 Mei 2012

Geografische spreiding:

- Belgium, North Sea [gazetteer]

Coördinaten: MinX: 51,153; MinY: 51,433 - MaxX: 2,62; MaxY: 2,8083

Parameters:

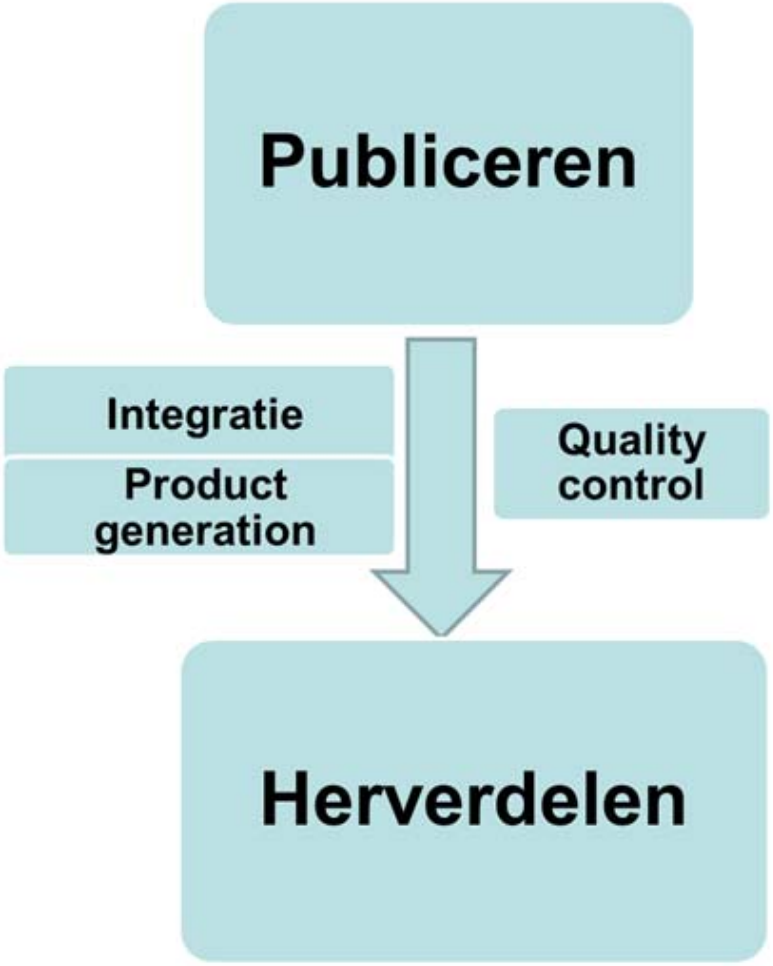
Top | Verantwoordelijken | Fysische dataset

- **Parameter:** Biomassa macrobenthos
- **Parameter:** Densiteit macrobenthos
- **Parameter:** NHx flux at sediment-water interface
- **Parameter:** Nitrification, **Methode:** Mass budget (Braeckman et al. 2010)
- **Parameter:** NOx flux at sediment-water interface
- **Parameter:** Zuurstofverbruik sedimentgemeenschap, **Methode:** Winkler titration
- **Matrix:** Sediment, **Parameter:** chlorophyll-a in sediment, **Methode:** HPLC
- **Matrix:** Sediment, **Parameter:** phaeophytin in sediment, **Methode:** HPLC
- **Matrix:** Sediment, **Parameter:** Vertical oxygen profiles in the sediment
- **Matrix:** Sediment, **Parameter:** Vertical pH profiles in the sedment

Fysische dataset

Top | Verantwoordelijken | Parameters

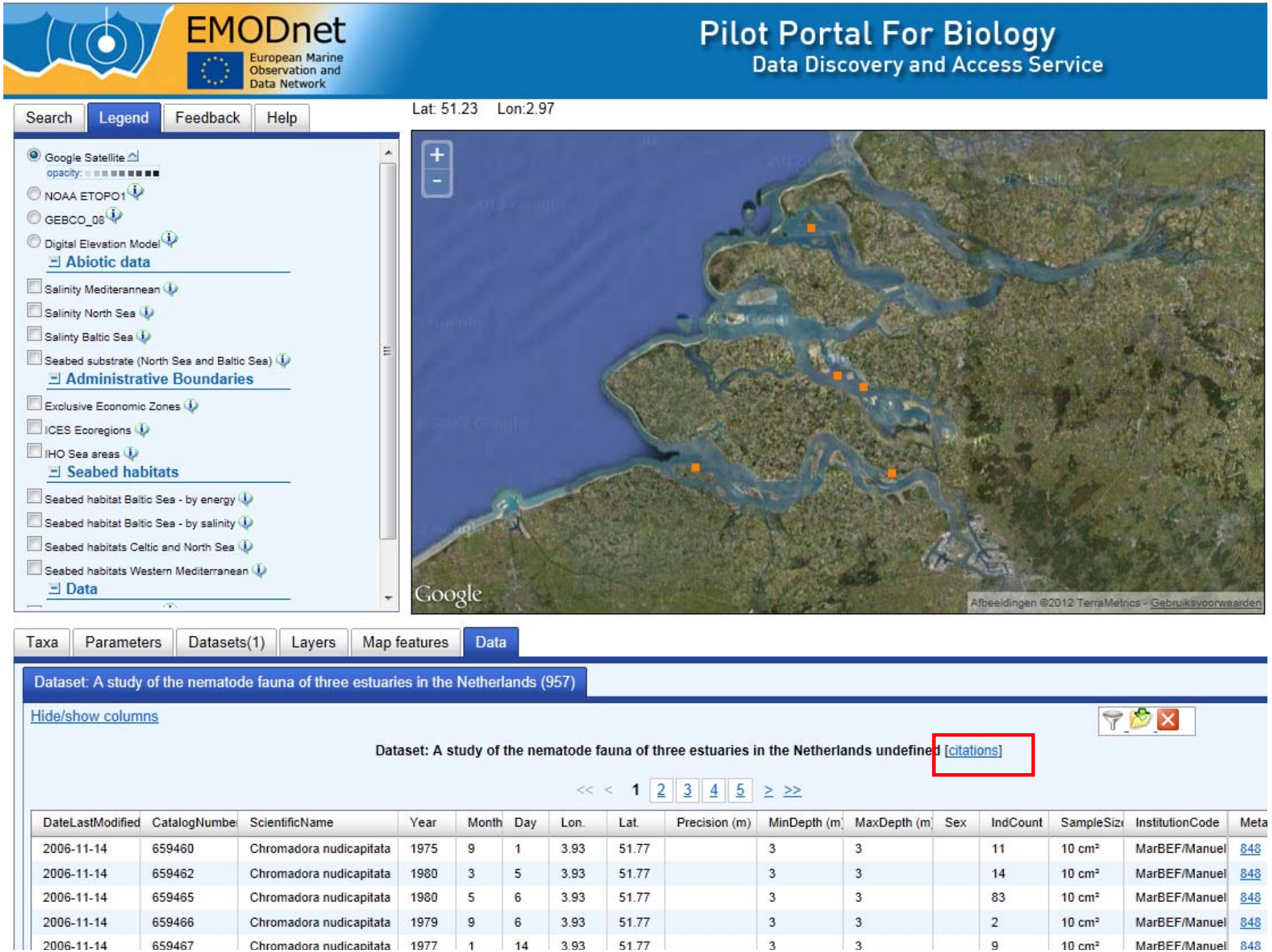
Medium: Server
Opslaginstituut: Universiteit Gent; Faculteit Wetenschappen; Vakgroep Biologie; Onderzoeksgroep Mariene Biologie (MARBIOL), meer



Integratie: het combineren van datasets van verschillende oorsprong en gebruikers een “unified view” op deze data aanbieden

Producten:

Toegevoegde waarde creëren met grafieken, kaarten of tabellen, door standaardisering, interpolatie of andere vormen van “data processing”


EMODnet
European Marine Observation and Data Network
Pilot Portal For Biology
Data Discovery and Access Service
Search
Legend
Feedback
Help
Lat: 51.23 Lon:2.97
Google Satellite
opacity:
NOAA ETOPO1
GEBCO_08
Digital Elevation Model
Abiotic data
Salinity Mediterannean
Salinity North Sea
Salinty Baltic Sea
Seabed substrate (North Sea and Baltic Sea)
Administrative Boundaries
Exclusive Economic Zones
ICES Ecoregions
IHO Sea areas
Seabed habitats
Seabed habitat Baltic Sea - by energy
Seabed habitat Baltic Sea - by salinity
Seabed habitats Celtic and North Sea
Seabed habitats Western Mediterranean
Data
Google
Afbeeldingen ©2012 TerraMetrics - Gebruiksvoorwaarden
Taxa
Parameters
Datasets(1)
Layers
Map features
Data
Dataset: A study of the nematode fauna of three estuaries in the Netherlands (957)
Hide/show columns
Dataset: A study of the nematode fauna of three estuaries in the Netherlands undefined [citations]
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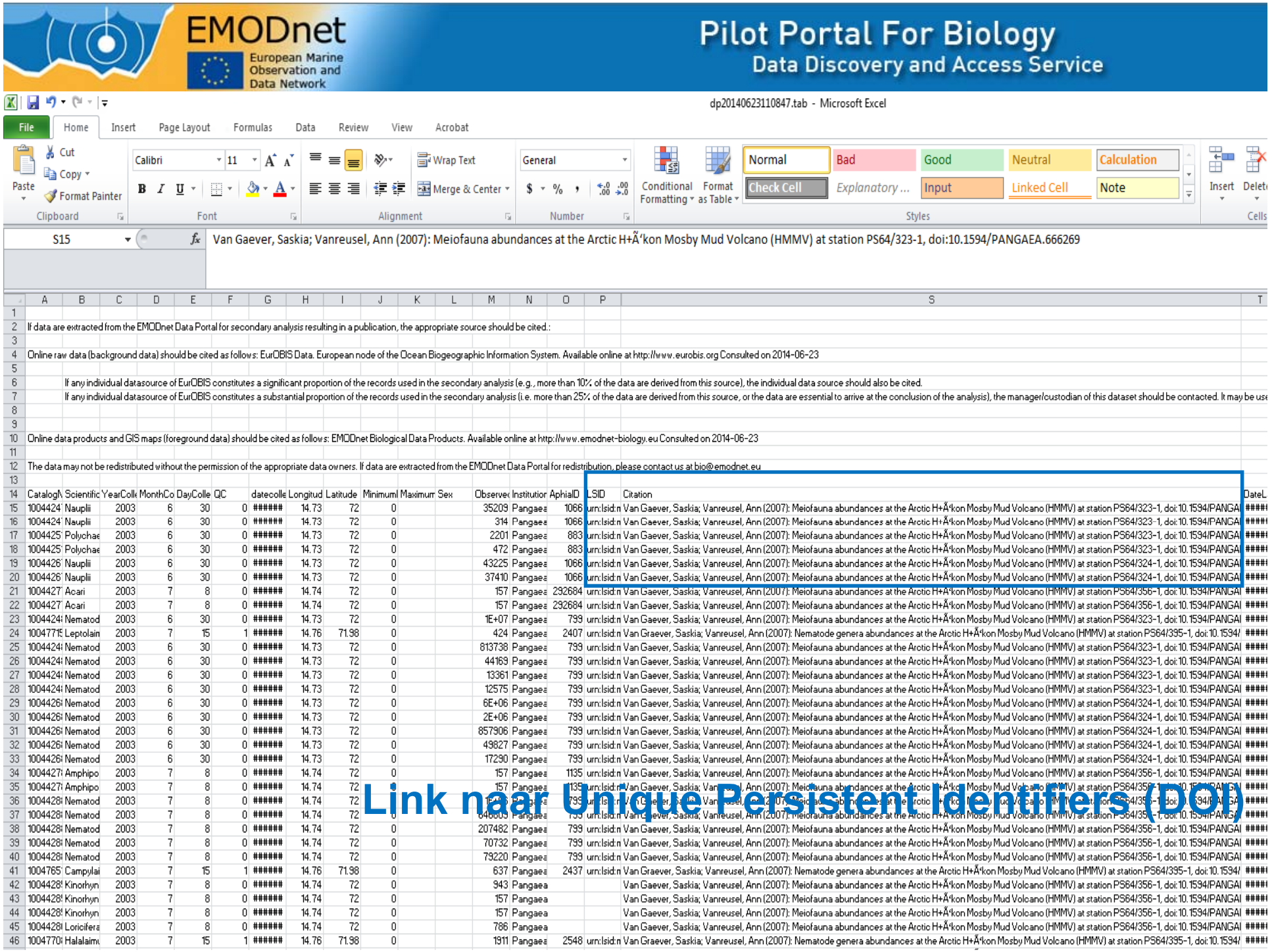
EMODnet
European Marine Observation and Data Network
Pilot Portal For Biology
Data Discovery and Access Service
dp20140623110847.tab - Microsoft Excel
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Note
Styles
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S15
Van Gaever, Saskia; Vanreusel, Ann (2007): Meiofauna abundances at the Arctic H+Ã'kon Mosby Mud Volcano (HMMV) at station PS64/323-1, doi:10.1594/PANGAEA.666269
If data are extracted from the EMODnet Data Portal for secondary analysis resulting in a publication, the appropriate source should be cited.:
Online raw data (background data) should be cited as follows: EurOBIS Data. European node of the Ocean Biogeographic Information System. Available online at http://www.eurobis.org Consulted on 2014-06-23
If any individual datasource of EurOBIS constitutes a significant proportion of the records used in the secondary analysis (e.g., more than 10% of the data are derived from this source), the individual data source should also be cited.
If any individual datasource of EurOBIS constitutes a substantial proportion of the records used in the secondary analysis (i.e. more than 25% of the data are derived from this source, or the data are essential to arrive at the conclusion of the analysis), the manager/custodian of this dataset should be contacted. It may be use
Online data products and GIS maps (foreground data) should be cited as follows: EMODnet Biological Data Products. Available online at http://www.emodnet-biology.eu Consulted on 2014-06-23
The data may not be redistributed without the permission of the appropriate data owners. If data are extracted from the EMODnet Data Portal for redistribution, please contact us at bio@emodnet.eu
CatalogN Scientific YearColl MonthCo DayColle QC datecolle Longitud Latitude Minimuml Maximurr Sex Observec Institution AphialID LSID Citation DateL
1004424 Nauplii 2003 6 30 0 ###### 14.73 72 0 35209 Pangaea 1066 urn:lsid:n Van Gaever, Saskia; Vanreusel, Ann (2007): Meiofauna abundances at the Arctic H+Ã'kon Mosby Mud Volcano (HMMV) at station PS64/323-1, doi:10.1594/PANGA ####
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1004427 Amphipo 2003 7 8 0 ###### 14.74 72 0 157 Pangaea 1135 urn:lsid:n Van Gaever, Saskia; Vanreusel, Ann (2007): Meiofauna abundances at the Arctic H+Ã'kon Mosby Mud Volcano (HMMV) at station PS64/356-1, doi:10.1594/PANGA ####
1004428 Nematod 2003 7 8 0 ###### 14.74 72 0 Pangaea urn:lsid:n Van Gaever, Saskia; Vanreusel, Ann (2007): Meiofauna abundances at the Arctic H+Ã'kon Mosby Mud Volcano (HMMV) at station PS64/356-1, doi:10.1594/PANGA ####
1004428 Nematod 2003 7 8 0 ###### 14.74 72 0 646003 Pangaea 799 urn:lsid:n Van Gaever, Saskia; Vanreusel, Ann (2007): Meiofauna abundances at the Arctic H+Ã'kon Mosby Mud Volcano (HMMV) at station PS64/356-1, doi:10.1594/PANGA ####
1004428 Nematod 2003 7 8 0 ###### 14.74 72 0 207482 Pangaea 799 urn:lsid:n Van Gaever, Saskia; Vanreusel, Ann (2007): Meiofauna abundances at the Arctic H+Ã'kon Mosby Mud Volcano (HMMV) at station PS64/356-1, doi:10.1594/PANGA ####
1004428 Nematod 2003 7 8 0 ###### 14.74 72 0 70732 Pangaea 799 urn:lsid:n Van Gaever, Saskia; Vanreusel, Ann (2007): Meiofauna abundances at the Arctic H+Ã'kon Mosby Mud Volcano (HMMV) at station PS64/356-1, doi:10.1594/PANGA ####
1004428 Nematod 2003 7 8 0 ###### 14.74 72 0 79220 Pangaea 799 urn:lsid:n Van Gaever, Saskia; Vanreusel, Ann (2007): Meiofauna abundances at the Arctic H+Ã'kon Mosby Mud Volcano (HMMV) at station PS64/356-1, doi:10.1594/PANGA ####
1004765 Campylai 2003 7 15 1 ###### 14.76 71.98 0 637 Pangaea 2437 urn:lsid:n Van Graever, Saskia; Vanreusel, Ann (2007): Nematode genera abundances at the Arctic H+Ã'kon Mosby Mud Volcano (HMMV) at station PS64/395-1, doi:10.1594/ ####
1004428 Kinorhyn 2003 7 8 0 ###### 14.74 72 0 943 Pangaea Van Gaever, Saskia; Vanreusel, Ann (2007): Meiofauna abundances at the Arctic H+Ã'kon Mosby Mud Volcano (HMMV) at station PS64/356-1, doi:10.1594/PANGA ####
1004428 Kinorhyn 2003 7 8 0 ###### 14.74 72 0 157 Pangaea Van Gaever, Saskia; Vanreusel, Ann (2007): Meiofauna abundances at the Arctic H+Ã'kon Mosby Mud Volcano (HMMV) at station PS64/356-1, doi:10.1594/PANGA ####
1004428 Kinorhyn 2003 7 8 0 ###### 14.74 72 0 157 Pangaea Van Gaever, Saskia; Vanreusel, Ann (2007): Meiofauna abundances at the Arctic H+Ã'kon Mosby Mud Volcano (HMMV) at station PS64/356-1, doi:10.1594/PANGA ####
1004428 Loricifera 2003 7 8 0 ###### 14.74 72 0 786 Pangaea Van Gaever, Saskia; Vanreusel, Ann (2007): Meiofauna abundances at the Arctic H+Ã'kon Mosby Mud Volcano (HMMV) at station PS64/356-1, doi:10.1594/PANGA ####
1004770 Halalaim 2003 7 15 1 ###### 14.76 71.98 0 1911 Pangaea 2548 urn:lsid:n Van Graever, Saskia; Vanreusel, Ann (2007): Nematode genera abundances at the Arctic H+Ã'kon Mosby Mud Volcano (HMMV) at station PS64/395-1, doi:10.1594/ ####
Link naar Unique Persistent Identifiers (DOI)

Databeleid bij VLIZ

ICSU
WORLD DATA SYSTEM

Intergovernmental Oceanographic Commission of UNESCO
International Oceanographic Data and Information Exchange

www.icsu-wds.org

www.iode.org/

Vlaams instituut voor de zee

WDS Data Policy

There will be full and open exchange of data, metadata and products shared within WDS, … All shared data, metadata and products being free of charge or no more than cost of reproduction will be encouraged for research and education.

IOC Oceanographic Data Exchange Policy

Member States shall provide timely, free and unrestricted access to all data, associated metadata and products generated under the auspices of IOC programmes.
Member States are encouraged to provide timely, free and unrestricted access to relevant data and associated metadata from non-IOC programmes …. for non-commercial use by the research and education communities, provided that any products or results of such use shall be published in the open literature without delay or restriction.

Databeleid bij VLIZ

Het VLIZ is voorstander van vrije uitwisseling van data, en onderschrijft de IOC Oceanographic Data Exchange Policy. Waar mogelijk en relevant, worden de data online beschikbaar gemaakt via internet. Uiteraard bestaan hierop restricties, waardoor wij niet altijd onbeperkte toegang tot data kunnen voorzien. Dit is bijvoorbeeld het geval voor data waarvan VLIZ niet de primaire bron is: in dergelijk geval is het data(uitwisselings)beleid van de eigenaar of primaire bron van toepassing.

European Commission

ENVIRONMENT

European Commission > Environment > Law > Arrhus Convention

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- Law
- Aarhus Convention
- The EU & The Aarhus Convention
- Reporting
- Requests for internal review
- EU on-line resources and activities
- Links
- Contact
- Public consultations

The Aarhus Conventio

What is the Aarhus Conve

The United Nations Economic Co
in Decision-Making and Access t
Danish city of Aarhus (Århus) at
entered into force on 30 Octobe
UNECE Convention website).

The Aarhus Convention establis
the environment. The Parties to
authorities (at national, regiona
provides for:

- the right of everyone to rec
  environmental informatio
  measures taken, or on the
  environment. Applicants ar
  having to say why they rec
  disseminate environmental
- the right to participate in e

AARHUS CONVENTION

Parties to the Aarhus Convention and their dates of ratification

FORCE11
The Future of Research Communications and e-Scholarship

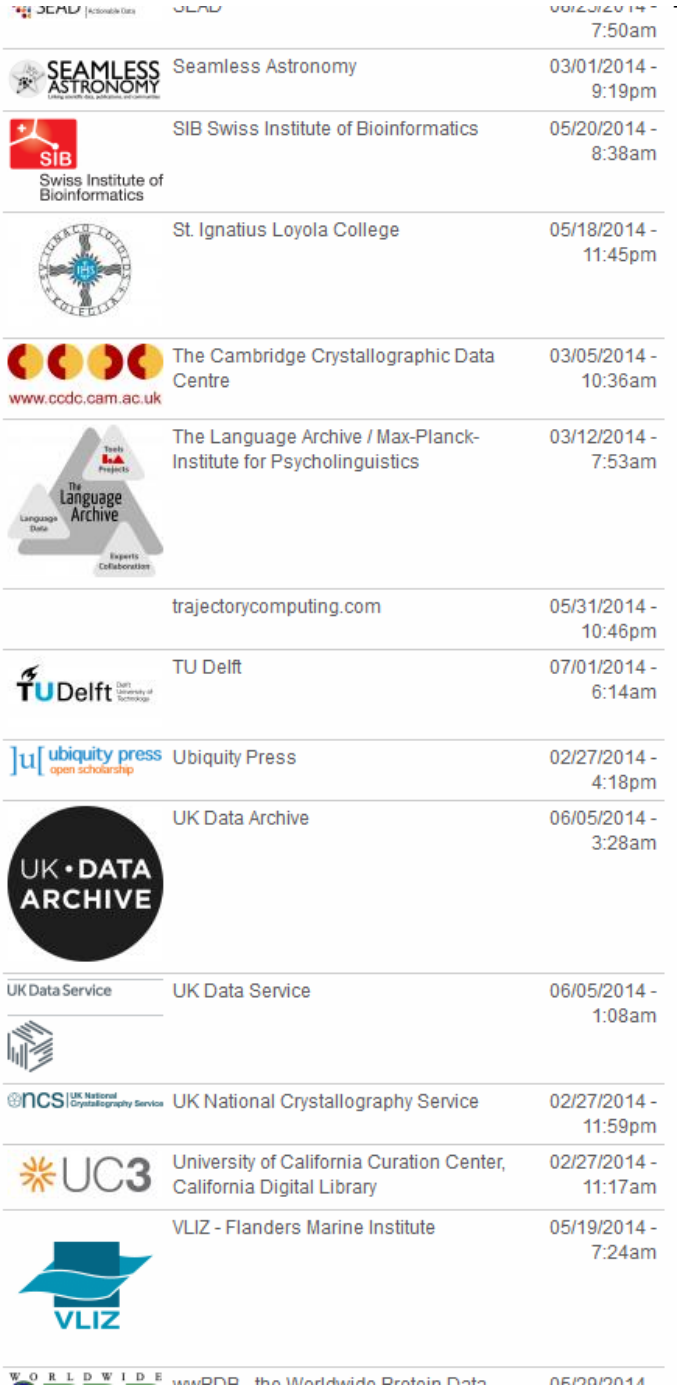
DC1
Data Citation Principles

- **Joint Declaration of Data Citation Principles**

https://www.force11.org/datacitation/endorsements

- No recommendations for specific implementations, but encourage communities to develop practices and tools that embody these principles:
  - Importance
  - Credit and Attribution
  - Evidence
  - Unique Identification
  - Access
  - Persistence
  - Specificity and Verifiability
  - Interoperability and flexibility

- Endorsed by 80 institutes, 176 individuals



Wat doen we nu reeds?

- Langetermijnopslag voorzien
- Ondersteuning bij publiceren van data
  - Online formulieren
  - QC en volledigheid van “discovery metadata”
  - QC en volledigheid van technische metadata
- Informatievoorziening faciliteren
- Toegang tot de datafiles voorzien
- Unique Identifier (DOI) voorzien

Wat kan er nog gedaan worden?

Voor onderzoek met publieke financiering

- **datapublicatie in open access verplicht maken**
- **als onderdeel van overeenkomst financierende overheden**

Monitoring data:

- **zou onmiddellijk beschikbaar moeten worden**

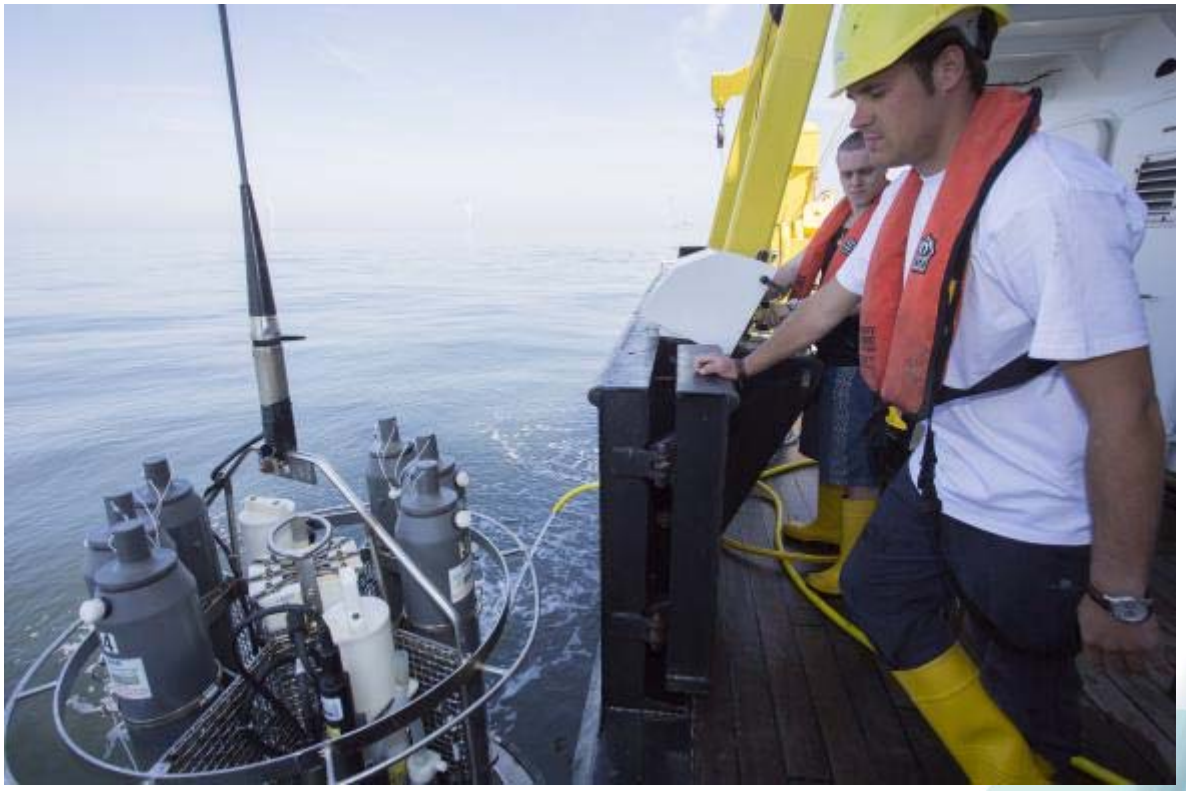
•Datapublicaties laten bijdragen tot de citatiescore (voorbeeld: Data Citation Index project Thomson Reuters)

Vlaams instituut voor de zee

Vragen?

data@vliz.be

Vlaams instituut voor de zee



Met bijdrage van:
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Vlaams instituut voor de zee