EMODnet
European Marine
Observation and
Data Network

Your gateway to marine data in Europe

EMODnet Biology

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Outline

1. Admin
2. Global interoperability
3. DOI procedures
4. Usage
5. Coastline

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Admin

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- Project signed 19th April 2017 (22 partners, 1 subcontractor)

- Kick off meeting 25-26 April 2017, Oostende

- Consortium agreement signed

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Consortium

Structure project

EMODnet — European Marine Observation and Data Network

WP1
Project management
Project organization, monitor & reporting
Help desk

WP 2
Data access
to marine biological data
Capture different biological datatypes
(occurrence data, abundance, biomass, trait data)

WP3
Data archaeology
and rescue
Historical datasets, long time series

WP 4
Data product creation
development of digital map layers allowing to
analyse changes in species abundance and
extent over time and space

WP5
Uptake & outreach
involvement of regional sea conventions
Link with non-EU organisations

WP6
Data portal
Development data portal
interoperability data

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Data grants, deadline for application 15/10/2017

Calling all marine biological data collectors!

Does your organisation collect marine biological data? Are you interested in working with EMODnet Biology to make it freely available?

Then don't miss this opportunity! EMODnet Biology have opened a call for grants to join them as an Associate Data Partner. In addition to the financial support on offer, this is an excellent opportunity to work with world experts in marine biodiversity data collection and management. So if you are interested in working with EMODnet Biology to contribute to Europe's wealth of marine biodiversity data then make sure to apply before the call closes on October 15th 2017!

Find out more about how to become an EMODnet Biology Associated Data Partner

Contact us at info@emodnet.eu

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Status of portal in terms of global interoperability

- Infrastructure

- London workshop

OBIS-ENV-DATA
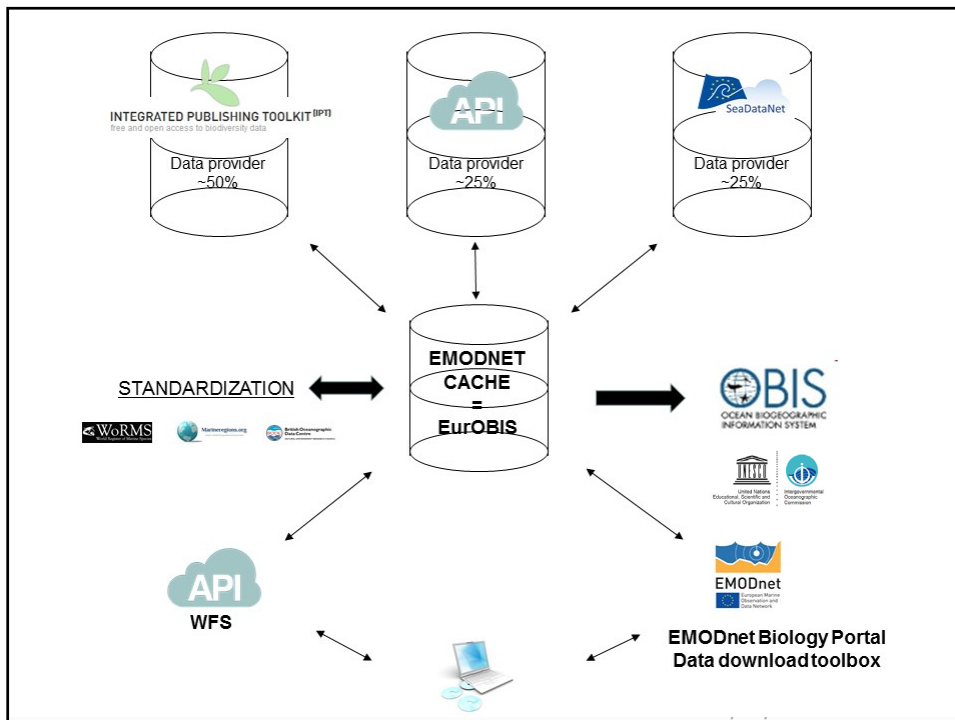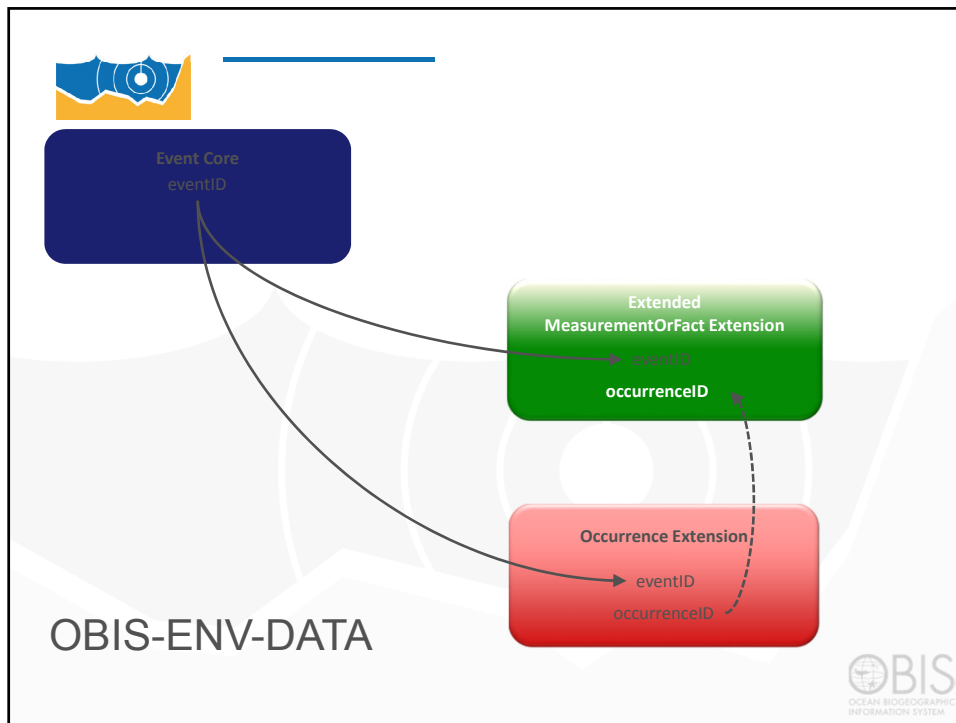
London workshop, 10-10-2017

Essential Marine Biological Data Products

A workshop to inform the development of core data products from EMODnet Biology to support management, policy, planning and education.

1. European regional seas needs

2. Transatlantic and global needs

Analysis of data product needs from the Sea Basin checkpoint

In the EMODnet biology lot, we are searching for data gaps and new data products to serve the European community. The data adequacy reports of the six sea basins forms the ideal platform to search for biological data and product needs. In relation to biological data, different types can be looked for, as species occurrence, density, biomass, diversity, population and community characteristics. Regarding data products, this can be maps, time-series analysis, video animations or modelled analysis. Therefore, the need for those data type and products are evaluated for the six basins on the basis of the twelve challenges.

II. EMODnet – Trait Products

EMODnet habitat

Resilient

Vulnerable

Habitat A5.37
"Deep circalittoral mud"

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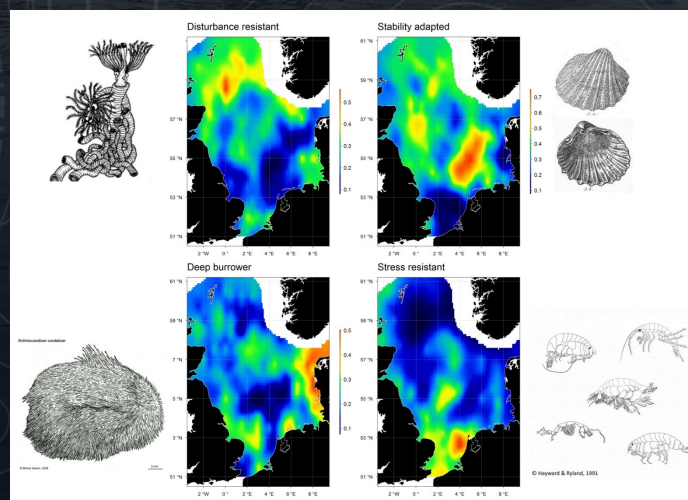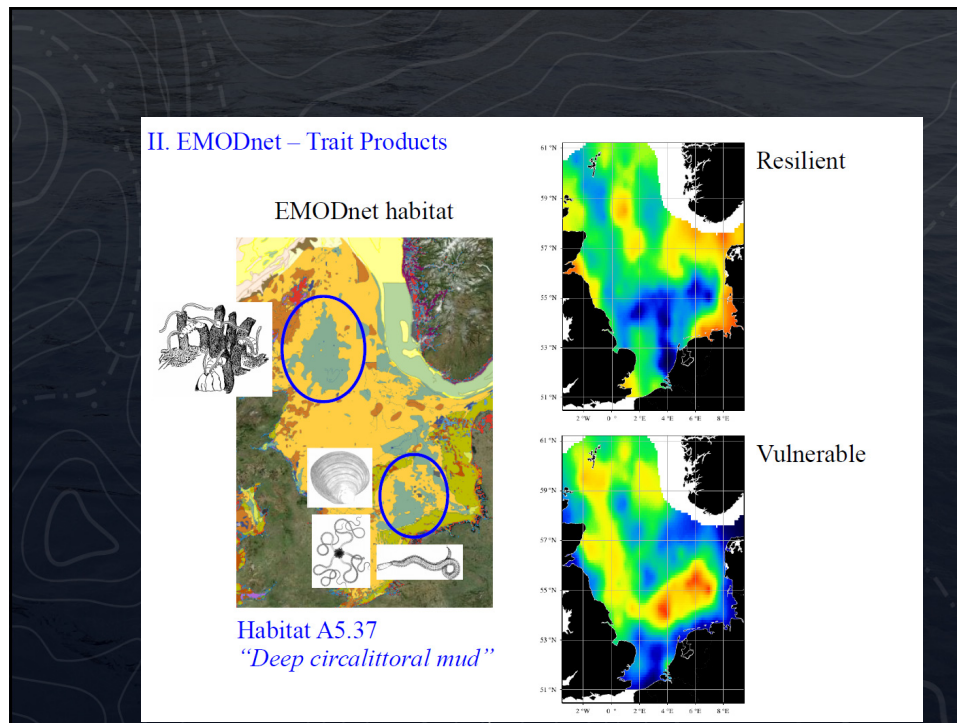
How your project/partners are considering and using Digital Object Identifiers (DOIs)

What is a DOI?

- **D**igital **O**bject **I**dentifier
- Resolves to a **landing page** with
  - a **description** of the **dataset**
  - a **link to the dataset**
- After assigning a DOI the dataset needs to be
  - **Frozen**
  - **Permanently available**

Registering DOIs at EMODnet Bio

Minimum requirements

- Only for **freely downloadable** datasets
- Basic **QC** to make sure the data is usable
- Metadata record in EMODnet biology catalogue - IMIS (= DOI landing page)
  - **Minimum metadata:** title, data creator, contact, citation, abstract
- Datasets that **don't have a DOI yet**

EurOBIS Procedure

1. EurOBIS Data and Metadata QC procedures
2. Archive the current version
3. Register the DOI in Emodnet biology metadata system (IMIS)
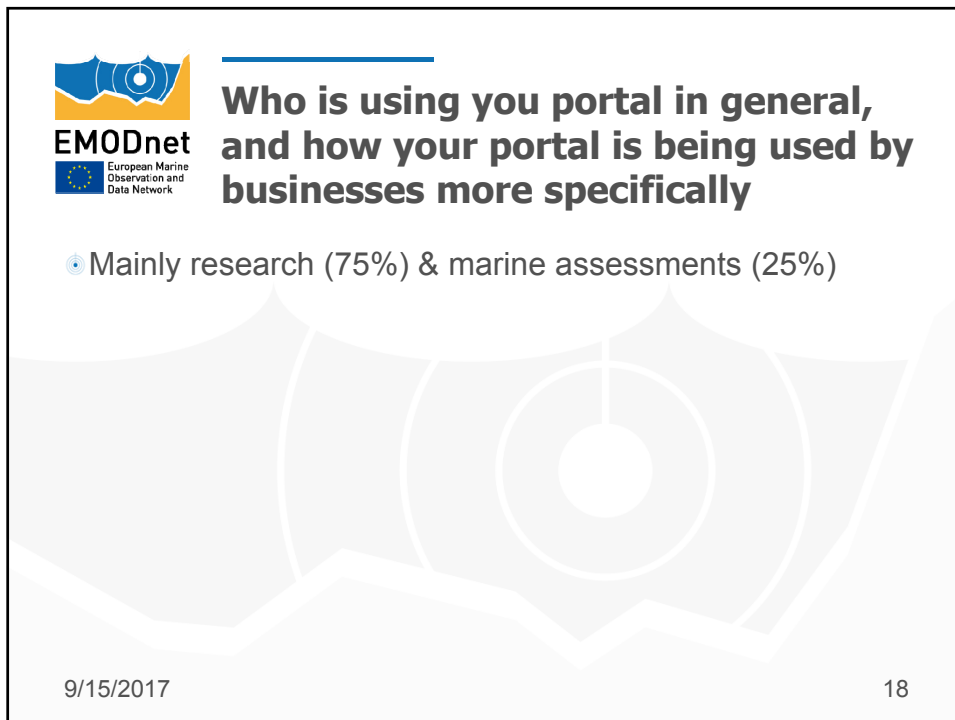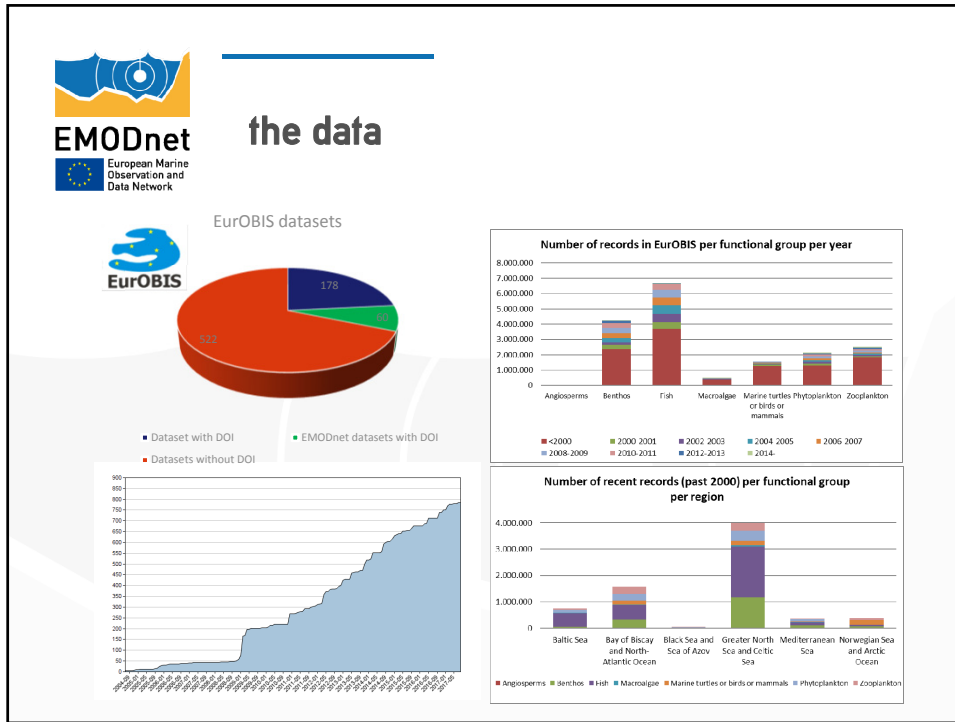4. Submit dataset metadata to DataCite (through TU-Delft) → activate the DOI

Procedure for dynamic datasets

1. **Archive snapshots** of entire dataset
2. DOIs of different snapshots resolve to **same landing page** with holds the different archived versions

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the data

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EurOBIS datasets

EurOBIS

178

522

Number of records in EurOBIS per functional group per year

8.000.000
7.000.000
6.000.000
5.000.000
4.000.000
3.000.000
2.000.000
1.000.000
0

Angiosperms   Benthos   Fish   Macroalgae   Marine turtles Phytoplankton Zooplankton
or birds or
mammals

■ <2000   ■ 2000 2001   ■ 2002 2003   ■ 2004 2005   ■ 2006 2007
■ 2008-2009   ■ 2010-2011   ■ 2012-2013   ■ 2014

■ Dataset with DOI   ■ EMODnet datasets with DOI
■ Datasets without DOI

Number of recent records (past 2000) per functional group
per region

4.000.000

3.000.000

2.000.000

1.000.000

0

Baltic Sea   Bay of Biscay   Black Sea and   Greater North   Mediterranean   Norwegian Sea
and North-   Sea of Azov   Sea and Celtic   Sea   and Arctic
Atlantic Ocean   Sea   Ocean

■ Angiosperms ■ Benthos ■ Fish ■ Macroalgae ■ Marine turtles or birds or mammals ■ Phytoplankton ■ Zooplankton

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Who is using you portal in general, and how your portal is being used by businesses more specifically

◉ Mainly research (75%) & marine assessments (25%)

EMODnet Biology API Description

- Occurrence data (species observations) as Web Feature Service (WFS)

- Additional measurements, linked to the occurrence data as Web Feature Service (WFS)

- Retrieve data of the gridded abundance dataproducts as WFS/WMS

- Using the AphiaID to query by (biological) taxonomy

- Using the IMISDasID to query by metadata dataset

- Examples of EMODnet Biology Data applications written in R are available at:

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NEWS

Zoom in on zooplankton data

Time-series and spatial data on zooplankton can be viewed through a new online product.

Published: 16 August 2017

The ICES community can now view zooplankton abundances over the last 60 years though a new Operational Oceanographic Product (OOP). The service is available in the form of a widget, built into the interactive spatial facility map in the ICES data portal. It allows users to visualize the average abundances of many species of zooplankton over seasonal, annual, and decadal time frames across different regions. Data are presented in a gridded layer, with each rectangle in the grid able to display a graph that also plots a trend line and the pattern of seasonality. The product focuses mostly on the coastal northeast Atlantic.

The service, which hosts EMODnet biology data sourced from the Sir Alister Hardy foundation (SAHFOS), is one of the Operational Oceanographic Products and Services (OOPS) which are being developed as ICES moves towards making its ecosystem advice operational – defining and describing the all steps of the process that culminate in the final advice. OOPS products provide regular input of monitoring information on regional oceanography and hydrography. Part of this drive has included the recently published ecosystem overviews. This mechanism is part of ICES vision of linking data to outputs, meeting the public expectations for a modern

Print it   Send to   Share it

EXPLORE THE MAP

EXPLORE ICES ADVISORY PROCESS

SUSTAINABLE DEVELOPMENT GOAL 14
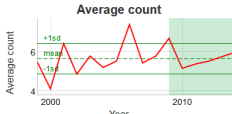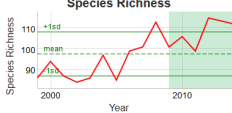Conserve and sustainably use the oceans, seas and marine resources for sustainable development

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Your views on common reference coastline across all portals

Currently, different open datasets:

GSHHG - A Global Self-consistent, Hierarchical, High-resolution Geography Database

EEA: Europe - onshore and offshore: ETRS89_LAEA_Europe

Marineregions: GCS_WGS_1984

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