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Enabling Delta Life

Data Services for Chemistry and Biology (DSD 2017)

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3 november 2017

Resources

- Data Initiatives
- Exercises

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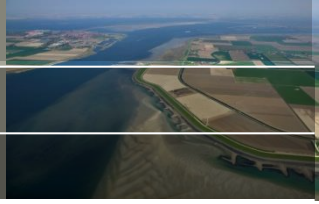
Data initiatives



Catalog

https://publicwiki.deltares.nl/display/OET/Data+sharing+initiatives

Data sharing initiatives

Created by Gerben de Boer, last modified by Gerrit Hendriksen yesterday at 20:59

Inventory of data sharing initiatives

See also: Data viewers.

National (Open Data) initiatives:

- Netherlands
  - https://data.overheid.nl/
  - nationaal georegister
  - RWS geoweb (ArcGIS rest service)
  - NedDat Hub
  - DINO geological data
  - Rijkswaterstaat watermarkt
  - http://www.rws.nl/kenniscentrum/databestanden/
  - noordzeeloket
  - DANS
  - Waterbase (fresh water quantity and quality)
  - Utrecht (TIP)
  - KNMI Data centrum (OPeNDAP), (ADAGUC)
  - https://opendatanederland.org/
- United States
- Australia
- Ireland
- Great Britain
  - Elevation data
  - Environmental data
- Portugal
- België
- Frankrijk
- Italië
- Estland
- Spanje
  - http://www.ign.es/ign/main/index.do?locale=en
  - http://www.juntadeandalucia.es/medioambiente/site/redian
- Cyprus (Bythos online data management system)
- Africa (portal with aggregation of African Open Data)
- European data initiatives
  - ENGAGE Datasets overview of Europe
  - EMODNET

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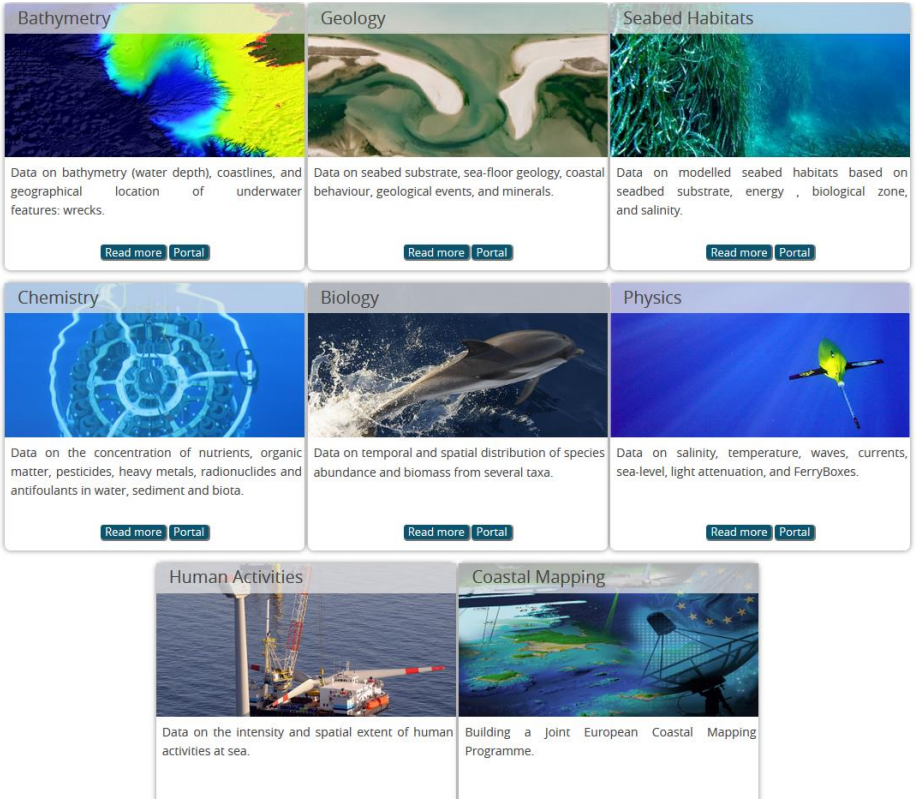
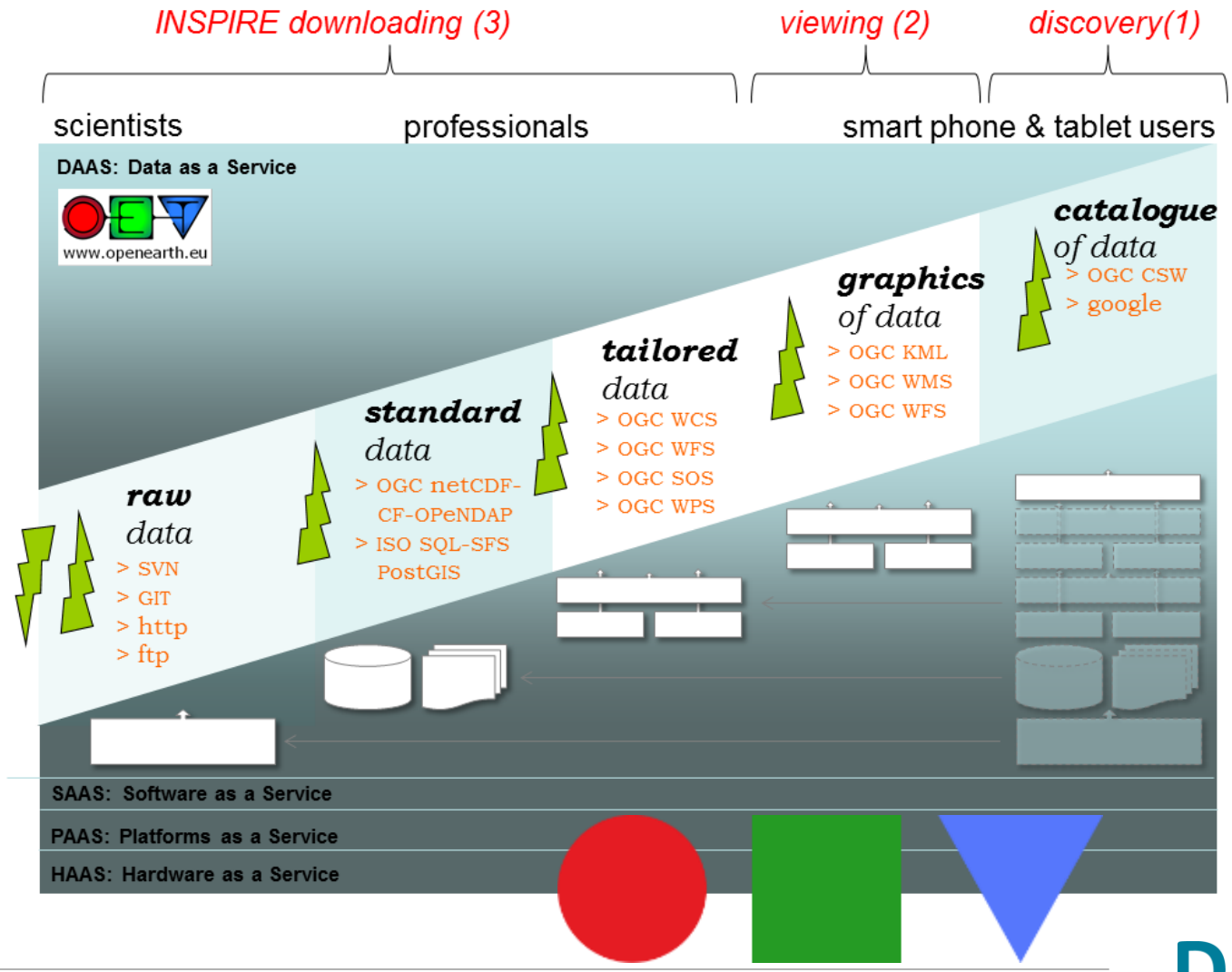
EMODnet

- More than 160 organizations assembling marine data, products and metadata
- Quality-assured, standardized and harmonized marine data which are interoperable and free of restrictions on use.
- EMODnet is currently in its third development phase with the target to be fully deployed by 2020

- http://www.emodnet.eu/



OpenEarth



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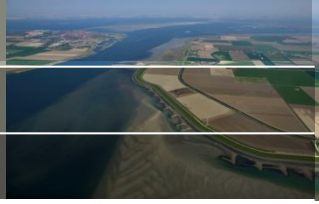
Exercises



- Bathymetry and Biology data using Web Services
- Working with OBIS (Biological) data
- Working with Chemistry gridded data
- Working with ICES data

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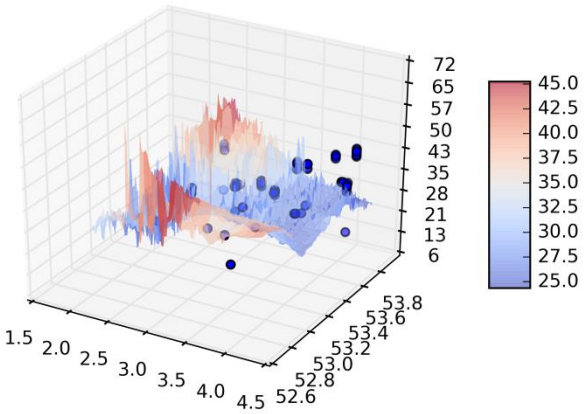
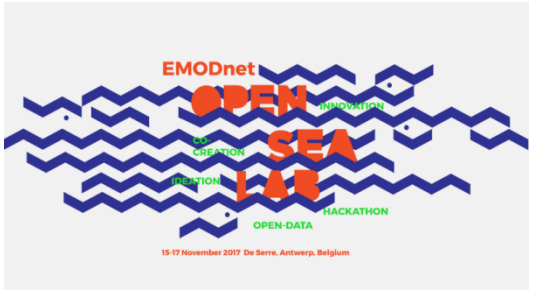
Bathymetry and Biology data

Bathymetry and Biology data using Web Services
https://publicwiki.deltares.nl/display/OET/EMODnet+and+Services



Initiative:

http://www.opensealab.eu/



EMODnet

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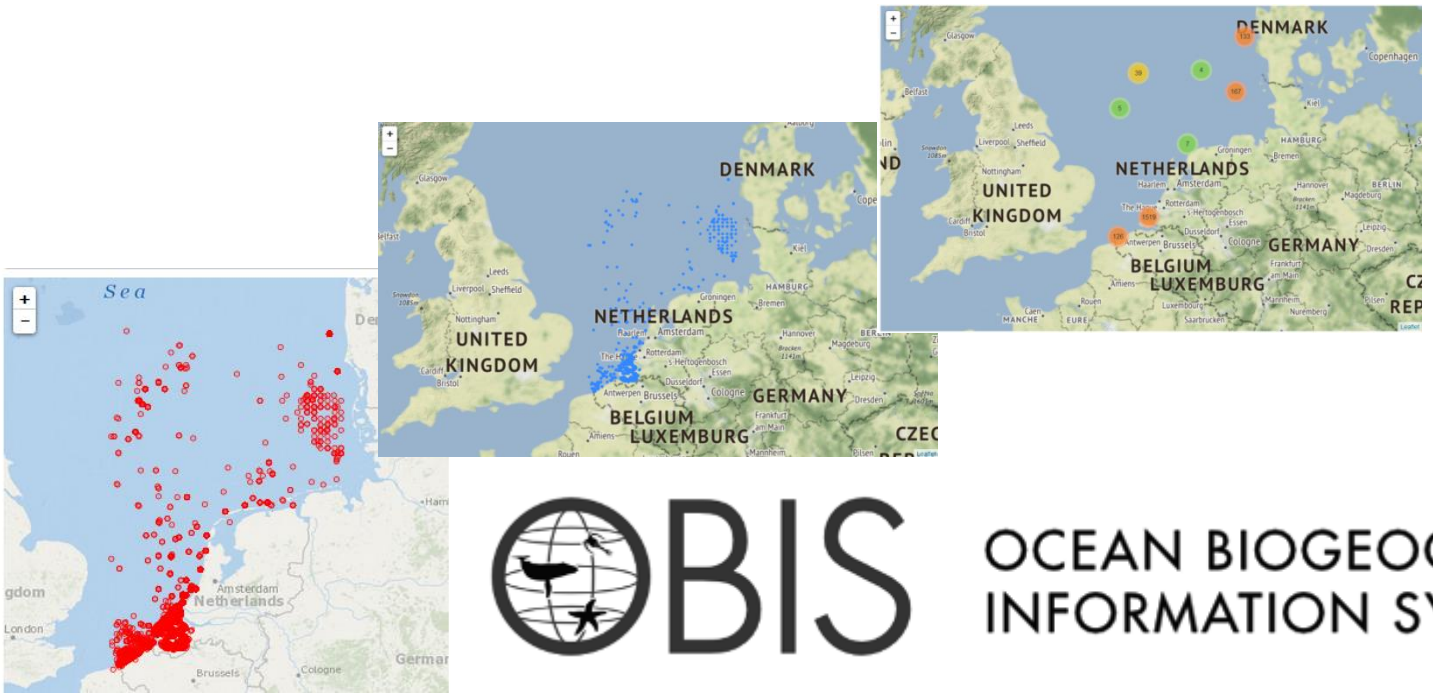
Working with Biological Data

Python: Look at notebook in the USB stick

R: Willem, Can you share [put in my postbox?] the R code with all dependencies/functions



OBIS OCEAN BIOGEOGRAPHIC INFORMATION SYSTEM

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Working with Chemistry gridded data

Thredds server for aggregated products from Chemistry.

Aggregated Data Products (ex. NetCDF4). Example:

http://ec.oceanbrowser.net/data/emodnet-domains/Mediterranean Sea/Autumn (October-December) - 10-years running averages/Water_body_chlorophyll-a.4Danl.nc

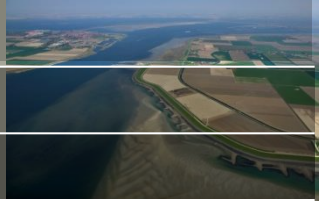
Go to http://ec.oceanbrowser.net/emodnet/#

Download NETCDF

or

OPENDAP SERVICE

Working with ICES data



Explore ICES data
https://publicwiki.deltares.nl/display/OET/Querying+ICES+database

SOAP request:
https://publicwiki.deltares.nl/display/OET/ICES+SOAP+data+request+using+Python

https://publicwiki.deltares.nl/display/OET/ICES+SOAP+data+request+using+matlab (with OpenEarth)

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