



Data Services for Chemistry and Biology (DSD 2017)

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Resources

- Data Initiatives
- Exercises





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/
 - noordzeeloke
 - 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
- Beigle
- Frankrijk
- ItaliëEstland
- LStiarit
 - 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



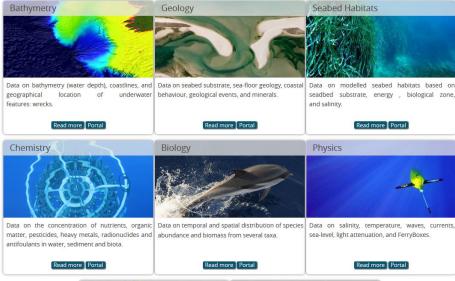
EMODnet

- 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

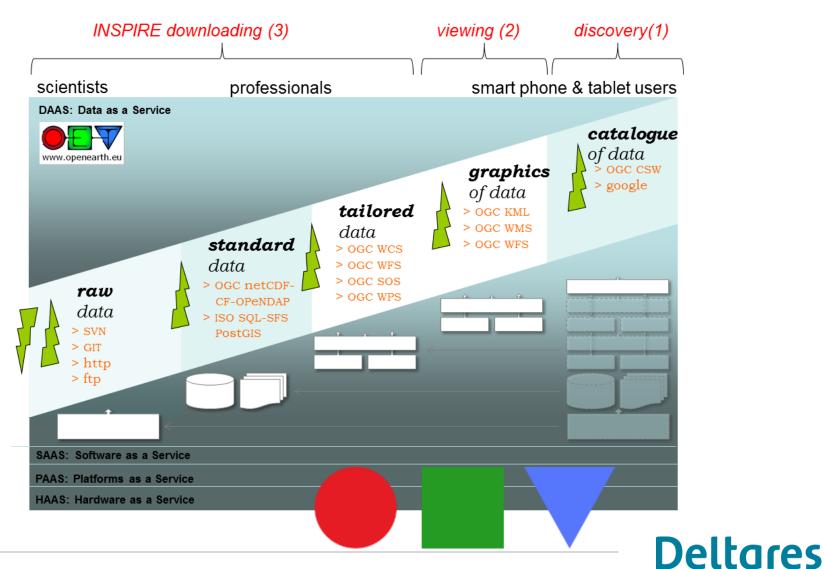
to be fully deployed by 2020

http://www.emodnet.eu/





OpenEarth



Exercises

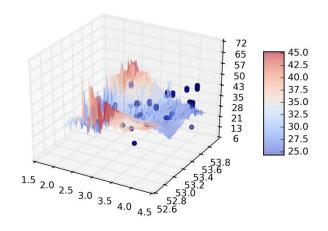
- Bathymetry and Biology data using Web Services
- Working with OBIS (Biological) data
- Working with Chemistry gridded data
- Working with ICES data



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/



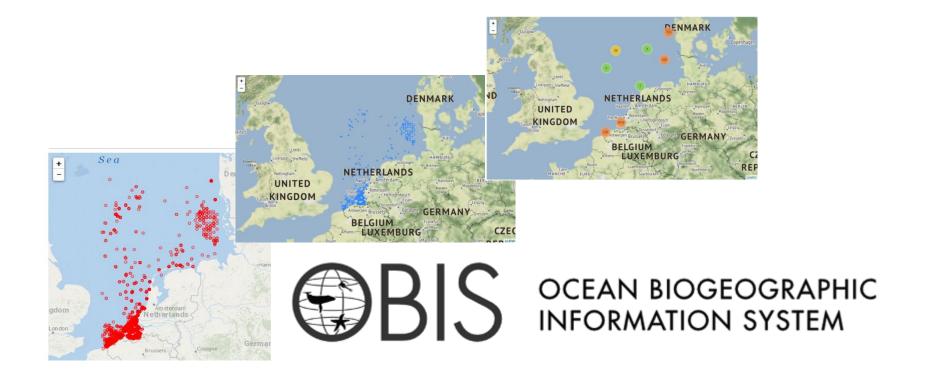




Working with Biological Data

Python: Look at notebook in the USB stick

R:markdown





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



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)



