



EMODnet



What is EMODnet?



MARITIME AFFAIRS

2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
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Phase 1 – limited sea basins (ca 6 MEuro)

Phase 2 - low resolution (ca 16 MEuro)

Phase 3 - multi-resolution (> 100 – 200 MEuro)

Bathymetry
Data on bathymetry (water depth), coastlines, and geographical location of underwater features: wrecks.
[Read more](#) [Portal](#)

Geology
Data on seabed substrate, sea-floor geology, coastal behaviour, geological events, and minerals.
[Read more](#) [Portal](#)

Seabed Habitats
Data on modelled seabed habitats based on seabed substrate, energy, biological zone, and salinity.
[Read more](#) [Portal](#)

Chemistry
Data on the concentrations of pesticides, heavy metals, and antifoulants, in water, sediments and biota.
[Read more](#) [Portal](#)

Biology
Data on temporal and spatial distribution of species abundance and biomass from several taxa.
[Read more](#) [Portal](#)

Physics
Data on salinity, temperature, waves, currents, sea-level, light attenuation, and FerryBoxes.
[Read more](#) [Portal](#)

Human Activities
Data on the intensity and spatial extent of human activities at sea.
[Read more](#) [Portal](#)

EMODnet Central Portal
European Marine Observation and Data Network
<http://www.emodnet.eu/>

To unlock fragmented & hidden marine data by making them more easily accessible + produce data products of common interest

Developed by 7 thematic data portals supported by a central gateway



Long-term initiative as part of Blue Growth strategy (Marine Knowledge 2020)



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EMODnet Chemistry 3

→ 6/3/2017 focus extended to marine litter

Aims to collect, aggregate, **standardize**, check the **quality** of data
developing new services to **share** information and products

Collects data on:

In 3 matrices:

- water column;
- biota;
- sediment.

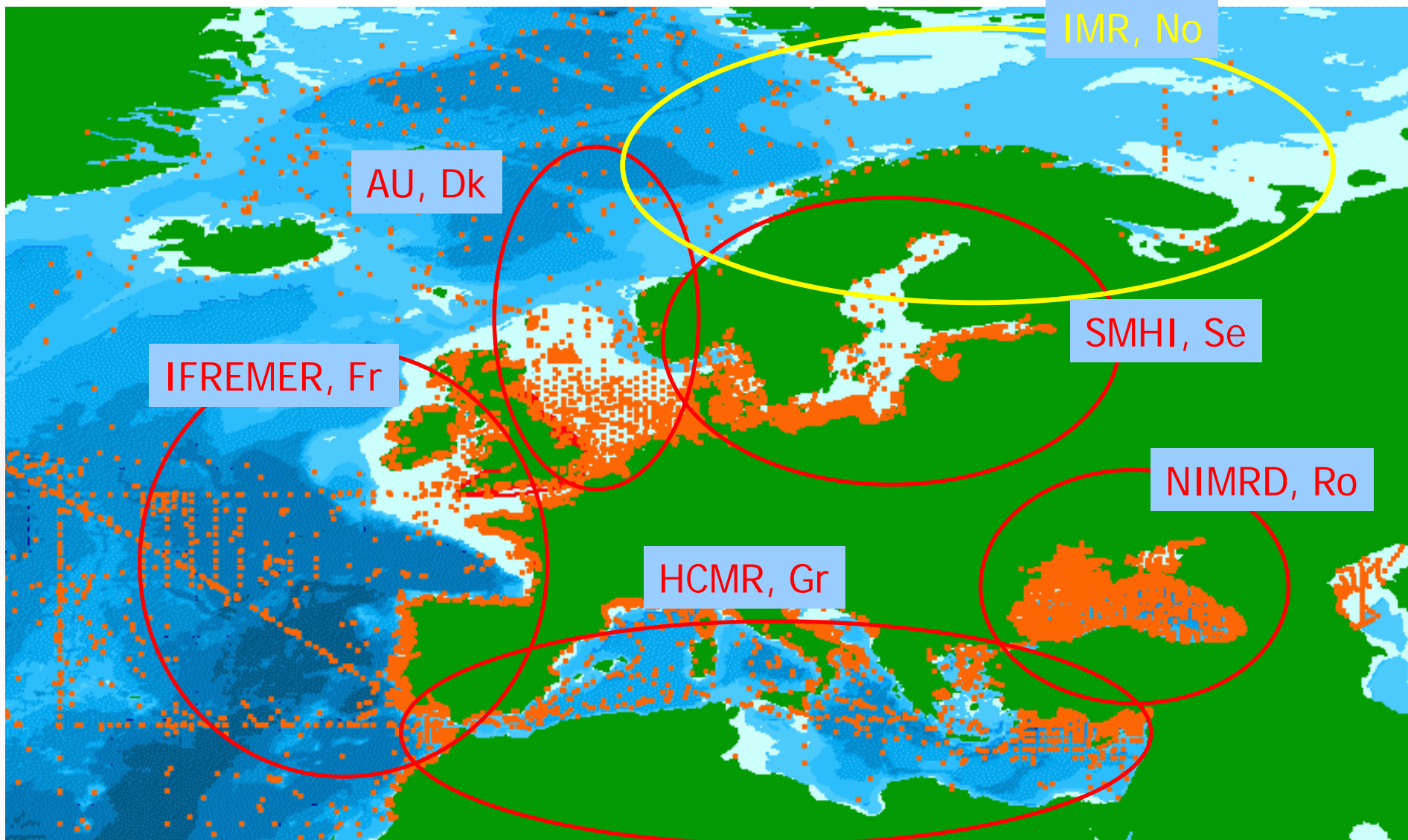
	Group	Examples
Eutrophication	nutrients, dissolved gasses ...	N, P, Si, Oxy, Chl-a
Ocean acidification	acidity	pH, pCO ₂
Contaminants	hydrocarbons, heavy metals, pesticides, ...	anthracene, fluoroanthene, Me, Cd, Pb, TBT, DDTs
Marine Litter	beach litter, seabed litter, microlitter	

Data products generation are organized at **Regional level**



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Geographic coverage





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Quality assessment for data and products

Data are **checked, flagged and completed with metadata** by **National Collators**

ISO/IEC
17025:2005



Update the official copy of data

Data extraction

Feedback loop
guarantees data
quality upgrade

Regional data
collections

Report errors to the data
originators

- Data Aggregation
- Parameter Homogenization
- Unit Conversion (to «**umol/l**»)
- Regional Quality Check
- Global Analysis

QC data
collections

4/3/2018



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Work programme (2017-2019)

📍 YEAR 1

- 📍 **Data collection** for Eutrophication + Marine and Beach litter data sets
- 📍 First version of maps for marine and beach litter (M12)

📍 YEAR 2

- 📍 Updated DIVA **maps** for eutrophication (M14)
- 📍 Data collection for **contaminants** (M15-May 2018)
- 📍 Dedicated maps for **contaminants** (M20-October 2018)
- 📍 Higher resolution DIVA maps **near major river mouths** (M22)



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MSFD Board of Experts

Asked to:

- ① 'Advise' on (suitable) products
- ① Monitor development of services (i.e. vocabs)
- ① Continuous dialogue

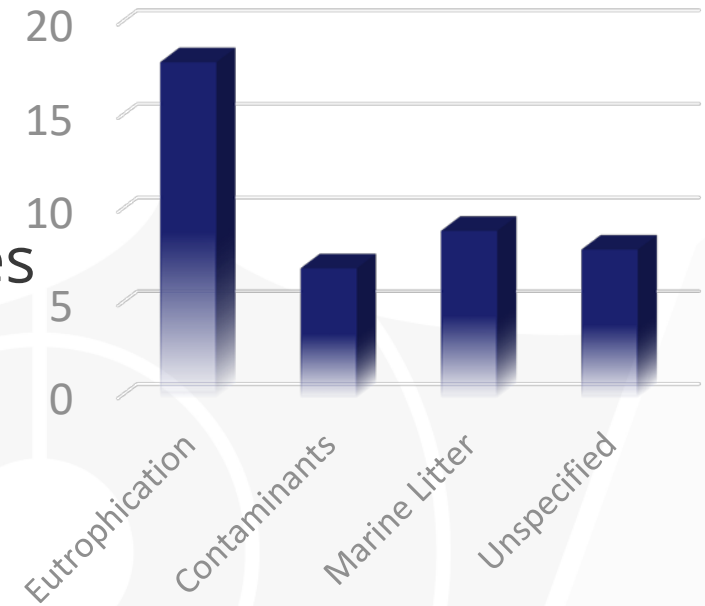
By:

- ① Remote Workshops

1st - Eutrophication Workshop (27th November 2017)

2nd - Contaminant Workshop (16th March 2018)

MSFD EXPERT BOARD (37 PEOPLE)





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Choice of contaminants



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Type of maps proposed