



**EMODnet**

European Marine  
Observation and  
Data Network

# EMODnet Biology status update

## Subtitle

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15<sup>th</sup> EMODnet Technical Working Group  
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The European Marine Observation and Data Network (EMODnet) is financed by the European Union under Regulation (EU) 2021/1139 of the European Parliament and of the Council of 7 July 2021 establishing the European Maritime, Fisheries and Aquaculture Fund.

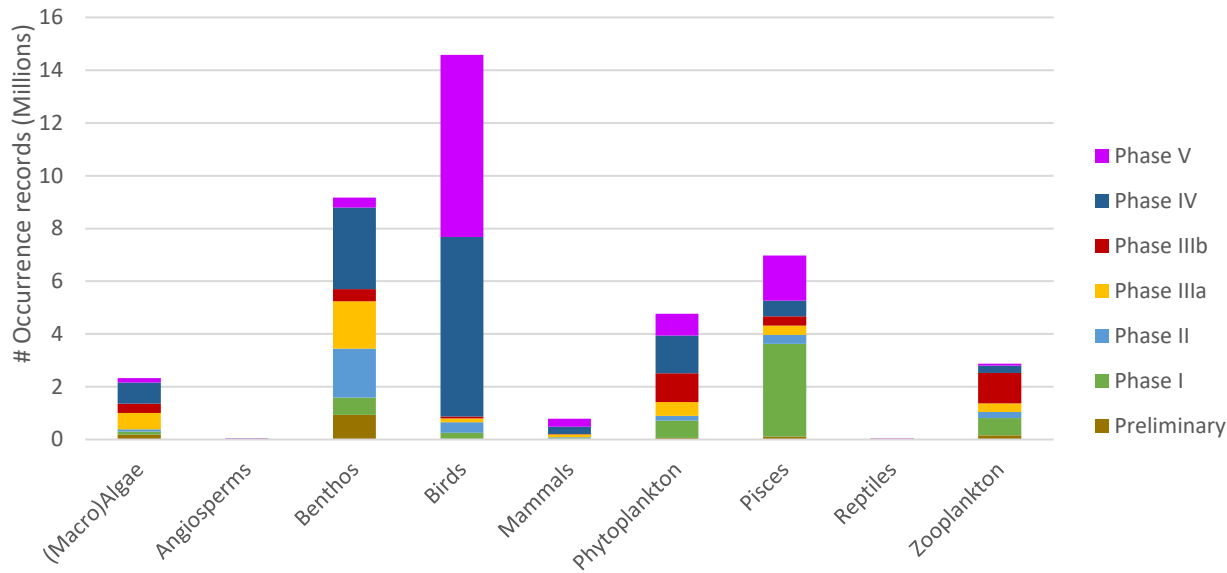
# Status update (on thematic)

## Data publication

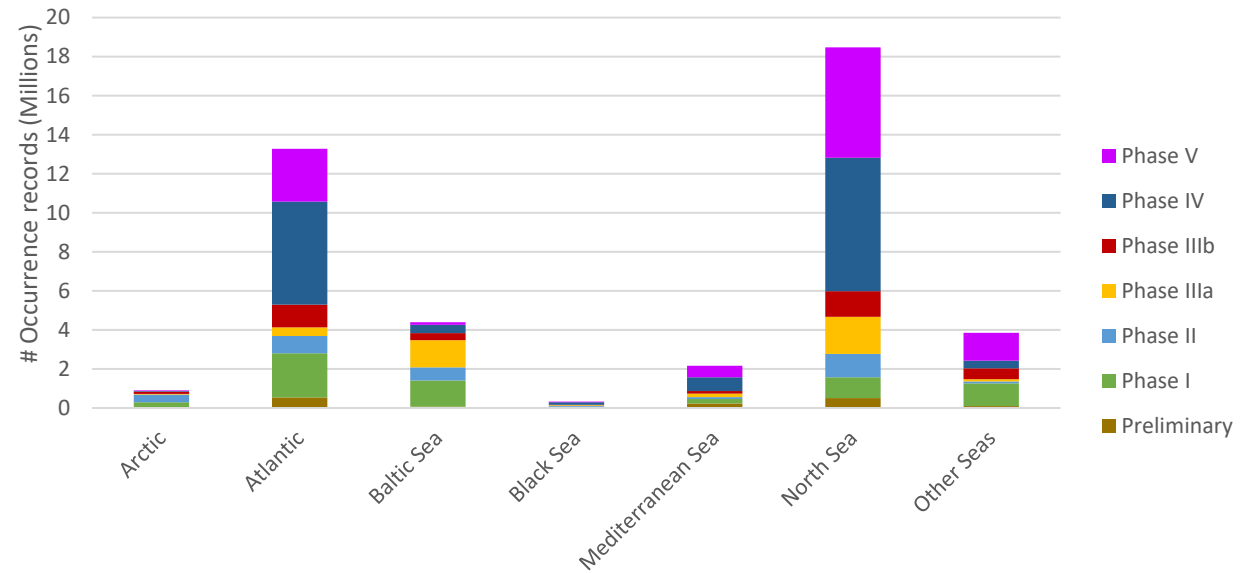


- 3 data harvests since May 2023
  - # occurrence records increased from 34.8M to 40.7M
  - # datasets with published data increased from 1280 to 1325

Data increase per sub-theme/per Phase



Data increase per region/per Phase



# Status update (on thematic)

## Data Products

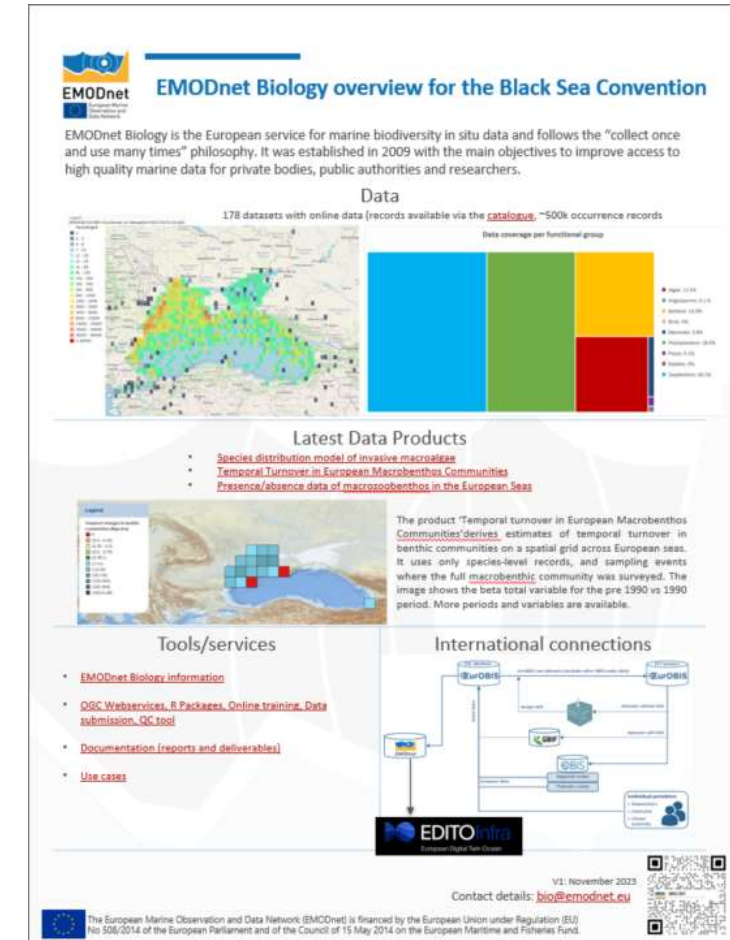


- WIP for the creation of 6 new data products + 1 new R Package
- WIP to push EMODnet [WFS](#) and [WCS](#) R Packages to review by ROpenSci and subsequent publication on CRAN
- Pending publication of external products:
  - Distribution maps of cetacean and seabird populations in the North-East Atlantic
  - Density of Loggerhead Turtles in the Mediterranean Sea
  - Plankton Genomics output preparation for inclusion in EMODnet-> BlueCloud product
  - 3D habitat suitability maps of the 30 main commercial fish species from the Atlantic Ocean-> Mission Atlantic product
  - Potential catch biomass summed up along the water column for the 30 main commercial fish species from the Atlantic Ocean-> Mission Atlantic product
- Assessment ongoing for two CEFAS products
  - Modelled projections of habitat for fish species feeding guilds around North-western Europe under climate change, 2010 to 2095
  - Modelled projections of habitat for commercial fish around North-western Europe under climate change, 2020 to 2060

# Status update (on thematic)

## Other activities

- Submitted deliverables
  - [QR26](#)
  - [QR27](#)
  - D2.2.2: [Summary on Consortium dataflows](#)
  - D2.4.1: [Workshop on use of Zooniverse for data digitisation through citizen science](#)
  - D2.4.2: [Data training workshop for Mediterranean organisations](#)
  - D4.1.5: Use case publication [“Facts and figures on the importance of UNESCO World Heritage Marine Sites for marine biodiversity”](#)
  - D4.2.1 Engagement plan for each RSC (document not public)
  - D4.2.2 [Questionnaire to inform about what data & products EMODnet Biology offers and to collect stakeholder needs](#)
- Ongoing work
  - QR28
  - Annual meeting scheduled for 16-17 April
  - RRSC workshop scheduled for morning 18 April
  - D4.2.4 Report on progress for the publication of fisheries survey data due 2024-05-09
  - Integration of omics data



**EMODnet Biology overview for the Black Sea Convention**

EMODnet Biology is the European service for marine biodiversity in situ data and follows the “collect once and use many times” philosophy. It was established in 2009 with the main objectives to improve access to high quality marine data for private bodies, public authorities and researchers.

**Data**

178 datasets with online data (records available via the [catalogue](#), ~500k occurrence records)

Data coverage per functional group

- Mollusca (100)
- Crustacea (100)
- Fish (100)
- Invertebrates (100)
- Plants (100)
- Animals (100)
- Invertebrates (100)
- Plants (100)
- Animals (100)

**Latest Data Products**

- [Species distribution model of invasive macroalgae](#)
- [Temporal Turnover in European Macrobenthos Communities](#)
- [Presence/absence data of macrozoobenthos in the European Seas](#)

The product ‘Temporal turnover in European Macrobenthos Communities’ estimates of temporal turnover in benthic communities on a spatial grid across European seas. It uses only species-level records, and sampling events where the full macrobenthic community was surveyed. The image shows the beta total variable for the pre 1990 vs 1990 period. More periods and variables are available.

**Tools/services**

- [EMODnet Biology information](#)
- [OSG Webservices, R Packages, Online training, Data submission, QC tool](#)
- [Documentation \(reports and deliverables\)](#)
- [Use cases](#)

**International connections**

EDITO

V1: November 2023  
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The European Marine Observation and Data Network (EMODnet) is financed by the European Union under Regulation (EU) No 508/2014 of the European Parliament and of the Council of 15 May 2014 on the European Maritime and Fisheries Fund.

# External interactions

## Meetings with external stakeholders/conferences



November	December	January	February	March
<ul style="list-style-type: none"><li>. EuropaBON Webinar: Stakeholder consultation (online)</li><li>. EuropaBON workshop (online)</li><li>. EMODnet Jamboree and Open Conference (Brussels, Belgium)</li></ul>	<ul style="list-style-type: none"><li>. MSFD Expert Network on Marine Biodiversity meeting (Incidental Bycatch Threshold Values) (online)</li></ul>	<ul style="list-style-type: none"><li>. EMODnet future evolution and governance (online)</li></ul>	<ul style="list-style-type: none"><li>. EMODnet webinar for EU Mission: restore our Ocean and Waters and Horizon Europe (online)</li><li>. Meeting with Eurostat (online)</li></ul>	<ul style="list-style-type: none"><li>. VLIZ Marine Science Day (Oostende, Belgium)</li></ul>



# EMODnet



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