



**EMODnet**



European Marine  
Observation and  
Data Network

# EMODnet Chemistry: key updates and forward look

16<sup>th</sup> EMODnet Steering Committee  
27-28 April 2022

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Chemistry Thematic lot

<https://www.emodnet-chemistry.eu/>



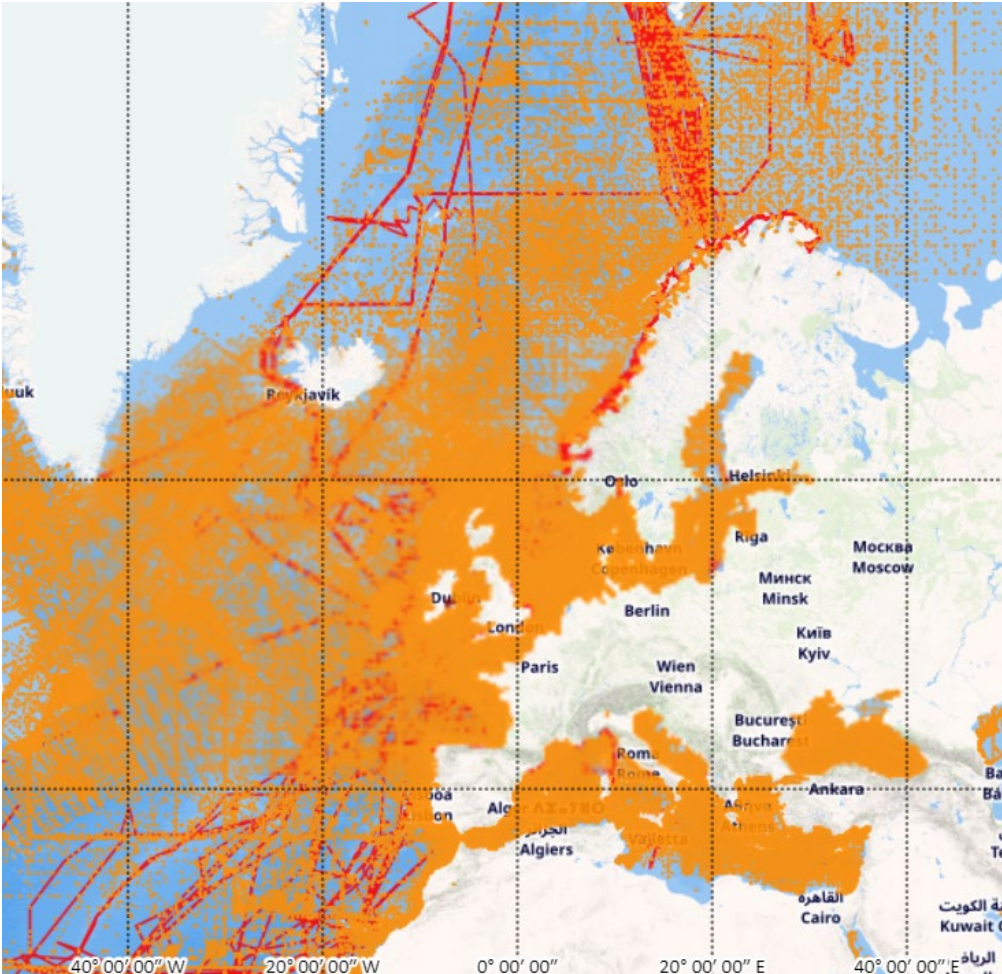
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# EMODnet Chemistry

- EMODnet Chemistry 5 contract started on 03/10/2021 (now M7)
  - Kick-off meeting (Nov. 2021), Full Group meeting (Dec 2021), SC meeting (March 2022)
- Consortium
  - Core group of 14 partners (OGS, MARIS, IFREMER, IMR, AU-DCE, SMHI, HCMR, NIMRD, ICES, AWI, ULg, ISPRA, MI, VLIZ) and 2 subcontractors (NOC-BODC, ETT)
  - Advisory forum with 29 institutes/agencies (RBINS, NIOZ, IO-BAS, IEO, CNR, IHPT, IOF, LHEI, TUT, FMI, NIB, IOLR, SYKE, ORION, IMBK, **RIHMI-WDC**, TSU-DNA, UkrSCES, **SOI**, IU-IMSM, NEA, IMS-METU, **SIO-RAS**, UHI-MB, SOCIB, IMGW, INGV, CEDRE, RWS) and the 4 RSCs (BSC, UNEP-MAP, OSPAR, HELCOM)
  - MSFD Board of Experts for eutrophication, contamination and marine litter (since 2017)
- COVID-19 & Ukrainian war: slow data submission and updating

# Status update

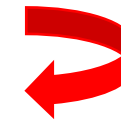
- Steady increase in the datasets supplied by the network of 66 data centers mobilized by EMODnet Chemistry; further enriching or amending data and metadata already available



## CDI service – coverage April 2022

- CDI records and data sets:  
June 2014: **661095**;  
June 2016: **807959**;  
Feb 2018: **939400**;  
June 2020: **1010933**;  
Apr 2021: **1051948**;  
September 2021: **1122527**;  
**April 2022: 1147589**

- 66 Data Centres
- 32 Countries
- +500 Originators
- 1868 – 2022 years
- 90.5% unrestricted
- 9.5% to be negotiated



Increase **2 %**

**25.062** CDI datasets  
**+1** Data Center  
**+ 1%** unrestricted  
**+ 10** Originators

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# Status update

- Continuous **involvement** of the network in **managing micro-litter data** collected by Member States as part of MSFD monitoring activity
- Release of MSFD monitoring **beach litter** dataset 2015-2020
- **Tuning** of data format and metadata schema to strengthen interoperability with EEA, CMEMS and the EU MSFD Technical Group on Marine Litter and Contaminants

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# Status update

- Regular meetings with **EMODnet CP team** to discuss and implement the migration of the EMODnet Chemistry thematic website and its products and services to the EMODnet CP. Agreement has been reached on overall approach and progress is being made with different aspects:
  - reviewing new **subsite map** to be followed by editing the chemistry narrative;
  - **map layers in CP viewer** will be driven by Chemistry OGC WMS services;
  - chemistry products will be included with metadata in CP Products Catalogue;
  - downloading of full products will move to CP Products Catalogue;
  - discussion ongoing about DIVA maps and their 4D presentation.
- **Responsibilities** for data and data products **storage, access** and **visualization** are important aspects to guarantee continuity in operational services and reporting (Nb. downloads, visualizations, WMS and WFS requests)
- Keep EMODnet Chemistry portal up-to-date, with **new descriptions, Guidelines, Reports, News, Events and Presentations and Use Cases**

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# Cross-Thematic Interactions

- **Call for support** to coordinate the **collection of feedback** on the joint Copernicus Marine and EMODnet marine data catalogue
- Interaction with Biology to contribute to Macroalgae workshop and Aquaculture workshop
- Joint meeting with Physics to set the interaction with Copernicus Marine In-situ (mainly for real-time data)
- Cooperation with Physics concerning river data
- Continue interaction with EMODnet Ingestion supporting the delivery of marine litter datasets by external sources

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## External interactions

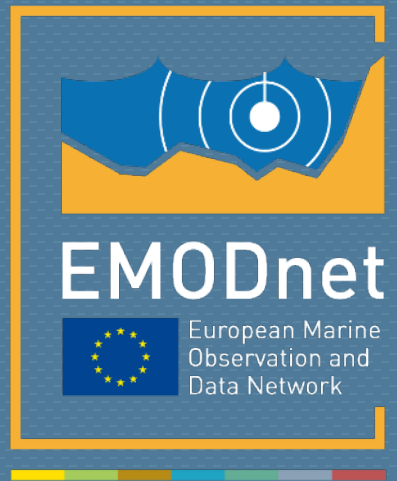
- Interaction with **HELCOM** to arrange usage of EMODnet Chemistry marine litter database for data reporting for many kinds of marine litter data
- Close dialogue with the **JRC** and the D8/D9 Contaminants working group to evaluate MSFD reporting formats and how they fit with EMODnet Chemistry metadata schemas
- The microplastics data management on a global scale discussed at the **G20 International Expert Meeting on Marine Plastic Litter Monitoring Data Sharing Project**, coordinated by the Ministry of Environment, Japan.
- Interactions also continued with the Global Partnership on Marine Litter Digital Platform (**GPML**), to tune EMODnet Chemistry contribution to the global system
- Knowledge exchange with **SDG 14.3.1 Data Portal** to discuss the alignment of metadata and vocabularies (meeting planned)
- Event participation (International Ocean Data Conference 2021, IODE sessions, EMD2022)

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# Future Outlook

- Continue with **dataset population** (regional meetings to mobilise data providers)
- **Generation and delivery** of updated standardised harmonized validated data collections
- Keep dialogue and interaction with **MSFD Technical Groups** (TG ML meeting planned)
- Continue data integration for **EEA indicators** once European Topic Centre are assigned
- Contribute to **global systems** with marine litter data, acidification data, oxygen data
- Continue synergy with **other projects** (EuroSea for setting metadata guidelines, FAIR-EASE for tuning data quality control procedures, Blue-Cloud for expanding integration, validation and coverage of data collections, iMagine for seafloor macro-litter)
- Continue to support EMODnet CP team in the **centralisation**





[emodnet.ec.europa.eu](http://emodnet.ec.europa.eu)

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