

Chemistry



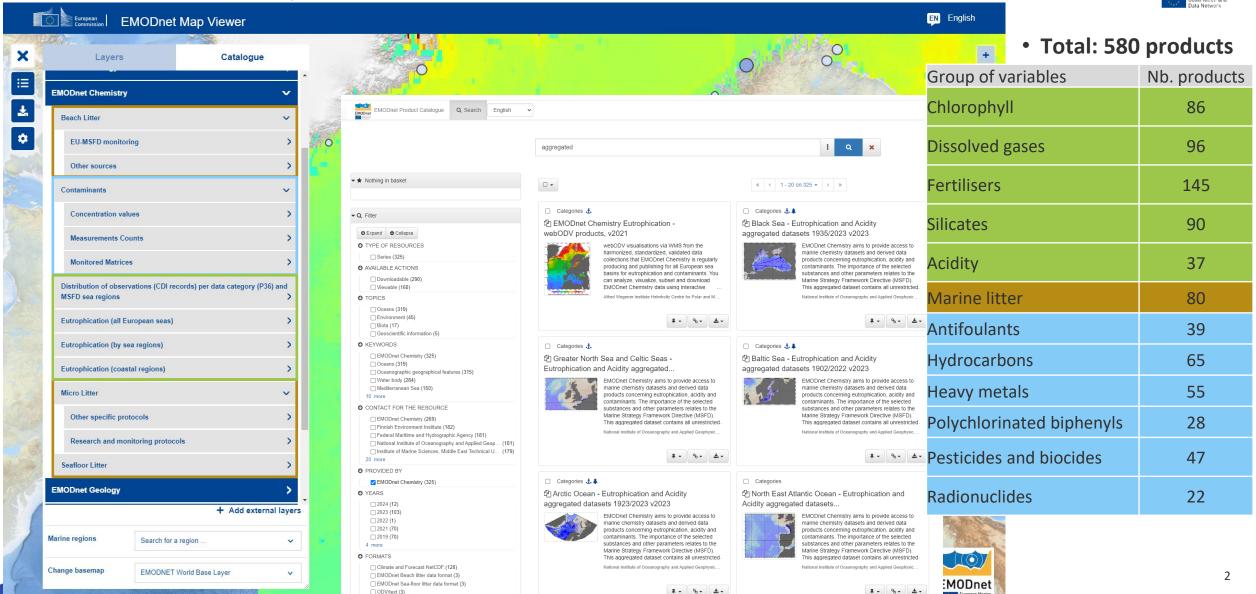
Key updates and forward look EMODnet Chemistry

Alessandra Giorgetti, OGS

EMODnet Chemistry current offer

Overview of Data/Data products





EMODnet Chemistry current offer

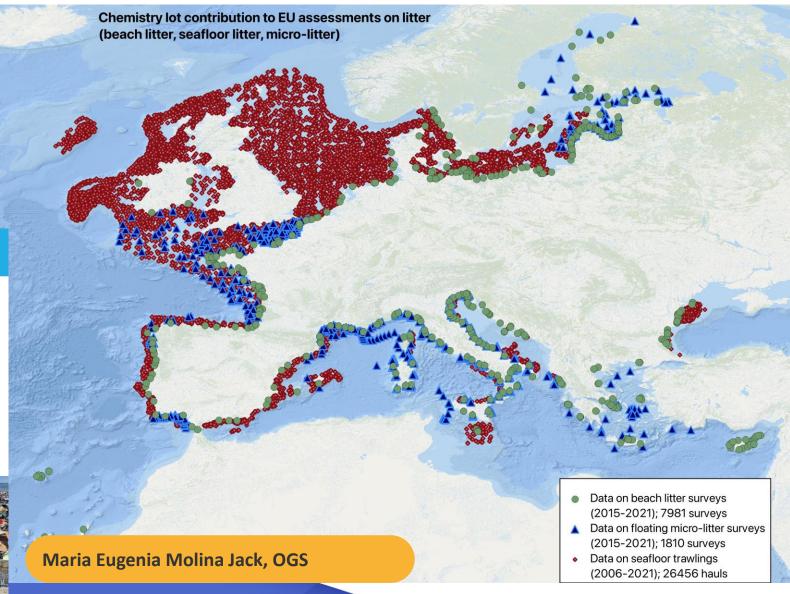
Data/Data products for EU Policy

- EMODnet acts as the **Data Portal** for data collection and management
- Beach litter 2012-2016 data used for EU Baselines and Threshold values

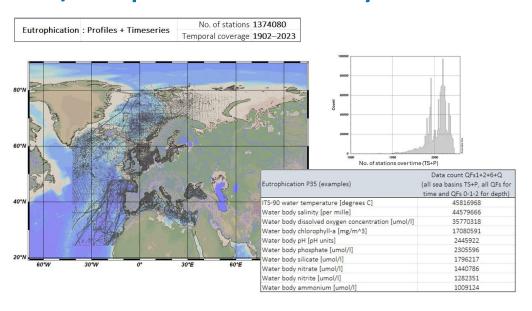
under the MSFD



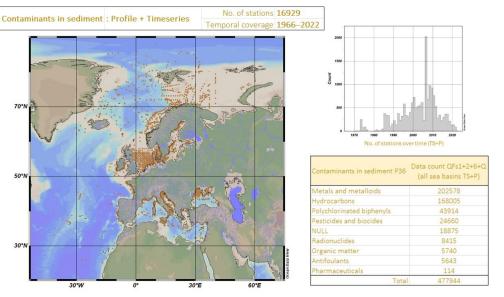




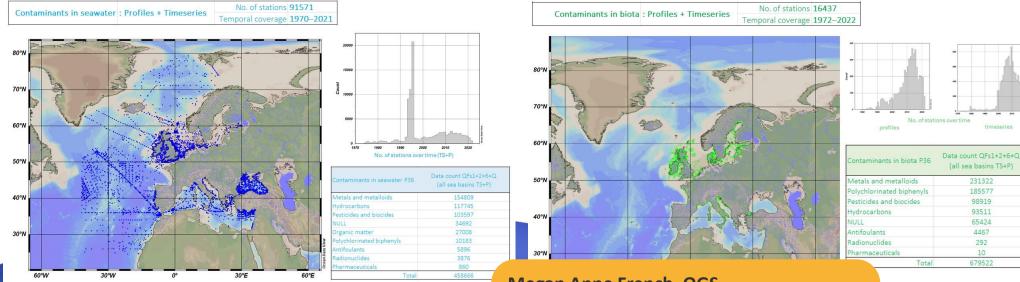
EMODnet Chemistry current offer Data/Data products for EU Policy



• For the next MSFD reporting on D5 (Eutrophication), D8 (Contaminants) and D9 (Contaminants in seafood), the latest aggregated, standardised, and validated data collections on eutrophication and chemical pollution were made available to the JRC for the first time.



 EMODnet chemistry data contributed to
EEA indicators



EMODnet Chemistry Future look

Service evolution



- Key areas of service evolution in the current workplan:
 - Improve data access via ERDDAP service for the aggregated collections
 - **Eutrophication**: expanding data collection covering all Member States monitoring data strengthen connection with Ocean Acidification networks (as e.g. GLODAP, SOCAT)
 - Contaminants: improve collection of analytical methods in addition to the actual instruments
 - Marine litter: expand to the seafloor litter from images & keep alignment with MSFD monitoring guidelines
- Key gaps highlighted by the thematic :
- Connection with UNEP/MAP and INFO/RAC
- Endorsement of EMODnet as a data portal for the MSFD by the Member States (as for marine litter)

Engagement, Partnerships and Use Cases

Update on recent use cases in development

Eutrophication



Projected climate oligotrophication of the Adriatic marine ecosystems by using EMODnet Chemistry climatologies

Scientific paper: https://doi.org/10.3389/fclim.2024.1338374

Status (as of 10/04/24): Published on EMODnet CP

Eutrophication and contaminants



EMODnet Chemistry harmonised and validated data collections for the EU Marine Strategy Framework Directive

Status (as of 10/04/24): Under evaluation by the EC JRC



Eutrophication



A simple dashboard for visualising seasonal and annual trends in oxygen and nitrate concentrations using EMODnet Chemistry data from the SeaDatanet CDI DB.

More info: https://eosc-future.maris.nl/documentation

Status (as of 10/04/24): In final revision by Tjerk Krijger from MARIS

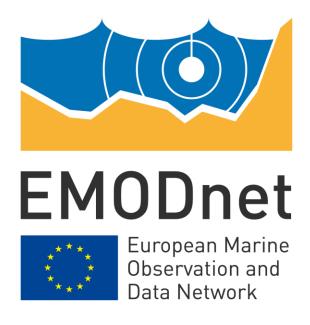
Marine litter



Development of an Indicator-based tool for identification of potential problem areas for ML in EU seas thanks to the EMODnet Chemistry DBs.

Scientific paper: https://doi.org/10.1016/j.scitotenv.2023.167096

Status (as of 10/04/24): Under evaluation by the Secretariat





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