Key achievements and outputs, collaborations and upcoming plans

14th EMODnet Steering Committee Meeting
Spring 2021
19-20 April
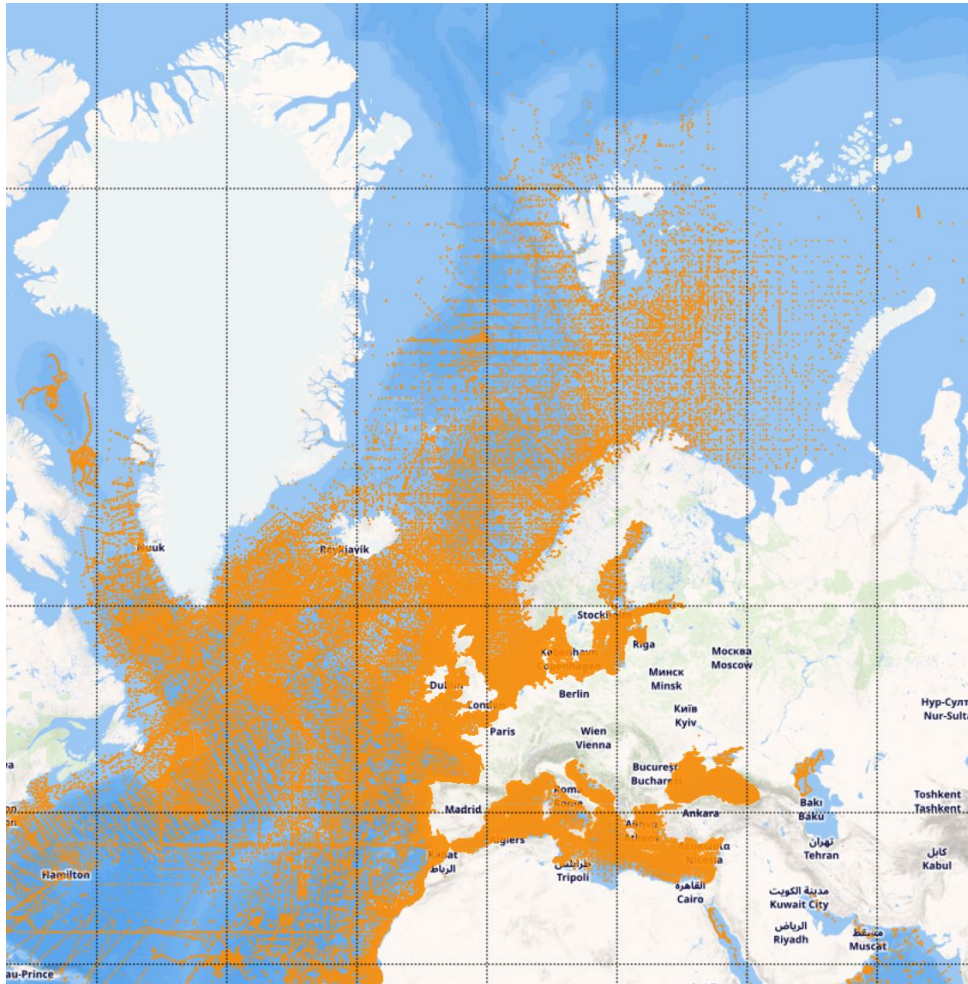
Alessandra Giorgetti
Dick Schaap

Chemistry Thematic portal
https://www.emodnet-chemistry.eu/

EMODnet Chemistry update: November 2020 – April 2021
➢ M12 – M18

- **Consolidation** of data access service supplied by a network of 65 data centers mobilized by EMODnet Chemistry. Completing or amending the data already available or enriching metadata.

CDI service – coverage April 2021

■ **CDI records and data sets:**
June 2014: **661095;**
June 2016: **807959**;
Feb 2018**: 939400;**
June 2020: **1010933;**
Apr 2021: 1051948

■ **65** Data Centres

■ **32** Countries

■ **490** Originators

■ **1868 – 2021** years

■ **89.5%** unrestricted

■ **10.5%** to be negotiated

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EMODnet Chemistry update: November 2020 – April 2021

- **Release** of the new regional standardised, harmonized, validated data collections for all European seas for Eutrophication and Ocean Acidification, Contaminants, Beach and Seafloor Litter.

- **Finalisation** of the pan-European beach litter database for EU JRC/TG ML, updated with the collection of monitoring data by all EU Member States covering 2016 to 2020.
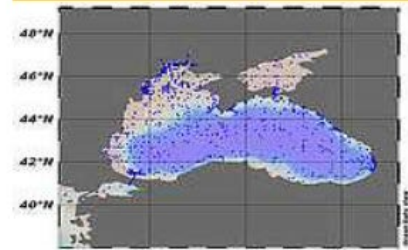

Eutrophication (nutrients, chlorophyll and oxygen) and Acidity (alkalinity and pH) in seawater
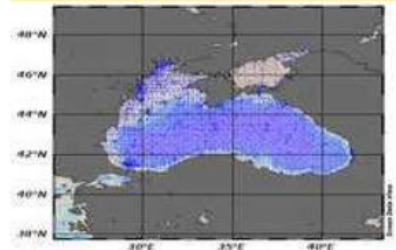
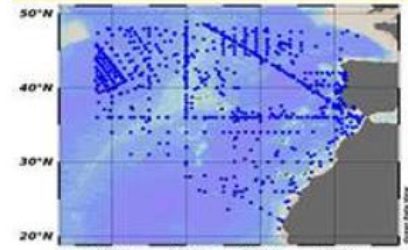Contaminants in seawater, biota and sediment

BLACK SEA

BLACK SEA   **ARCTIC OCEAN**   **NORTH SEA**   **MEDITERRANEAN SEA**
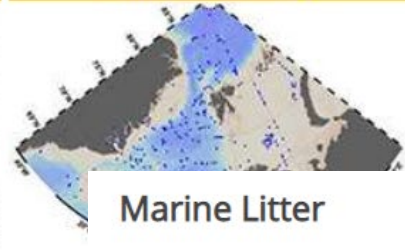
NORTHEAST ATLANTIC OCEAN
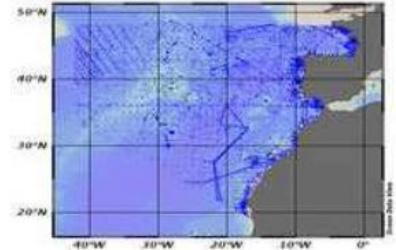
NORTHEAST ATLANTIC OCEAN

Marine Litter

BEACH LITTER   **SEAFLOO**

Available to download as ODV

Available to download as ODV spread

Available to download as EMODnet Beach litter

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Beach litter – Comparison between datasets

- **Number of surveys per year:**

Dataset of 2019   Dataset of 2021

EMODnet Chemistry update: November 2020 – April 2021

- **Updating** of the online webODV service with the new harmonized, standardized, validated data collections. The tool offers MSFD users easy options for browsing, sub-setting, and exporting data sets into a number of formats. It helps scientists exploring data and preparing graphics, like ocean sections or horizontal maps.

EMODnet Chemistry update: November 2020 – April 2021

- **Release** of new beach litter maps, presented and discussed with the MSFD board of experts.

- **Expanding** data management portfolio with micro-litter in sediments and floating macro-litter.
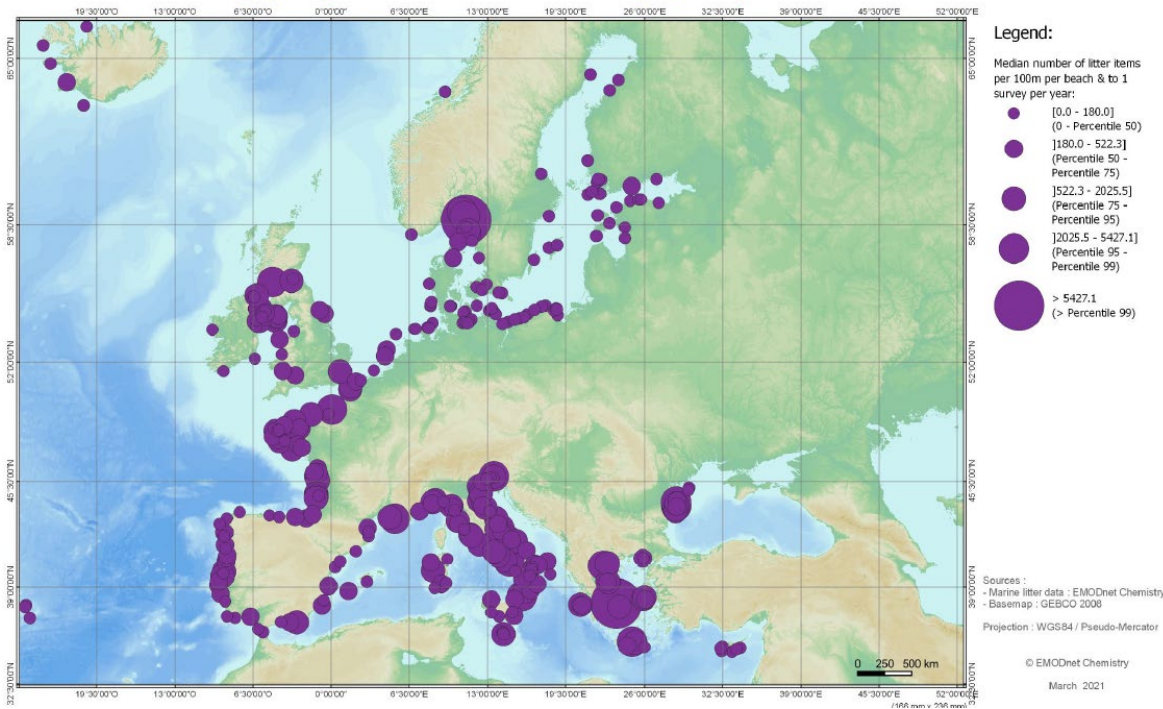
EMODnet Chemistry update: November 2020 – April 2021

- Consolidation of EMODnet Chemistry role as **European data management hub** for many kinds of marine litter data, accepted by the MSFD community, Regional Sea Conventions, and Member States.

EMODnet Cross-Thematic Interactions

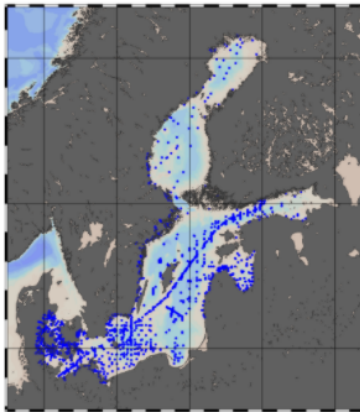- EMODnet (Chemistry) and Mercator Ocean International have jointly drafted a **shared data product portfolio** with the available marine data and data products (in situ, satellite, models), **relevant for** the implementation of the **MSFD**. In the Baltic Sea, the draft catalogue includes 246 EMODnet/CMEMS data products, covering almost all Descriptors.

- The portfolio will be promoted at the EMODnet Jamboree. An on-line version is planned.

D1 - 47 EMODnet/CMEMS data products
D2 - 3 EMODnet/CMEMS data products
D4 - 43 EMODnet/CMEMS data products
D5 - 28 EMODnet/CMEMS data products
D6 - 16 EMODnet/CMEMS data products
D7 - 44 EMODnet/CMEMS data products
D8 - 28 EMODnet/CMEMS data products
D9 - 6 EMODnet/CMEMS data products
D10 - 13 EMODnet/CMEMS data products
D11 - 18 EMODnet/CMEMS data products

Habitat

Product name: **Baltic seabed habitat predictive multi – scale map**
Type: model

Service source:
Name ID: EMO
Europe (EUSea
Variables: hab
types (as defi
Scale: multi-sc
Temporal cove
Temporal reso
Update freque
Product releva
Viewer.

Product name: **Baltic sea surface and depth reprocessed chlorophyll at measurement points**
Type: in situ

Service source: EMODnet Chemistry
Name ID: Eutrophication and Acidity aggregated datasets v2018, DOI: 10.6092/595D233C-3F8C-4497-8BD2-52725CEFF96B
Variables: chlorophyll-a (mg.m^{-3})
Spatial resolution: at measurement point, all water depths
Temporal coverage: 1974 to 2017
Temporal resolution: instantaneous
Update frequency: yearly or biannual
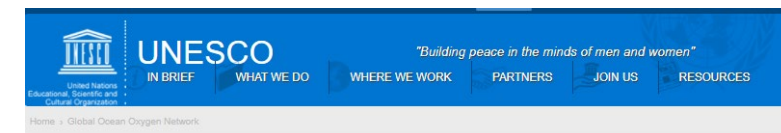Product relevancy: at measurement points

Biological diversity 1.
Non-indigenous species 2.
Population of commercial fish/shellfish 3.
Elements of ma food webs 4.
Eutrophication 5.
Sea floor integr 6.
Alteration of hydrographical conditions 7.
Concentrations contaminants 8.
Good Environmental Status
Contaminants i fish/seafood fo human consumption 9.
Marine litter 10.
Introduction of energy including underwater noise 11.

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External interactions

- Contribution to the Global **Oxygen** Data Platform (white paper)

- Contribution to the SDG 14.3.1 data portal (**Ocean Acidification**)
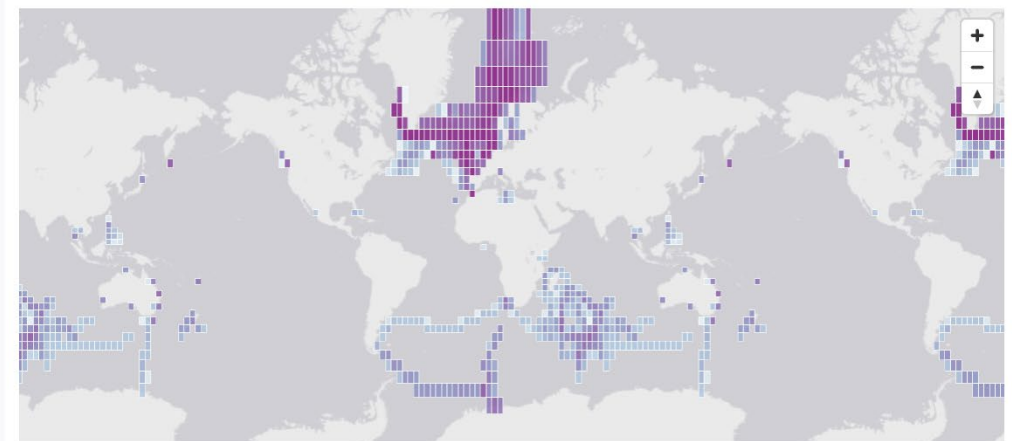
- Dissemination of the **UN SDG 14 questionnaire** & promotional video

  - EMODnet Chemistry provided valuable contributions to the completion of the **joint list of beach litter categories** and to the newly released manual

Future Outlook

- Undertake **micro-litter** data collection (water and sediment), involving EU Member States in contact with EMODnet data centers, following a request of TG ML

- Launch of marine litter, eutrophication and contaminants **maps** (after review by MSFD board of experts)

- Extension of **webODV Extractor** to contaminants

- Request to produce **infographic** for the data product workflow (showing the interaction & complementarity with CMEMS)

- Release of **promotional** video, mailing list, twitter, …

- Consolidate input to **global** platforms (marine litter, oxygen, ocean acidification, …)
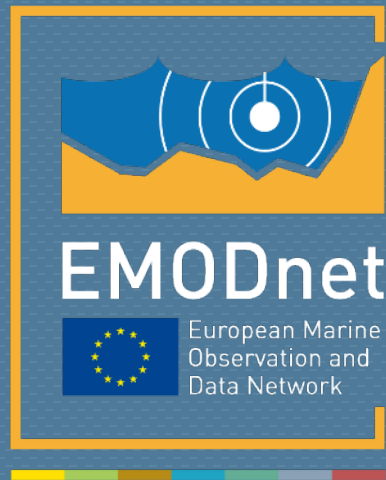
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