



EMODnet-Copernicus Marine Service 8th Coordination meeting

EMODnet Chemistry

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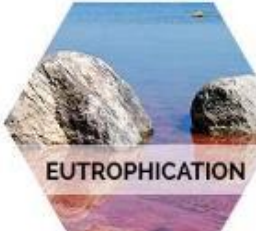
20 October 2023

EMODnet Chemistry | Workplan priorities

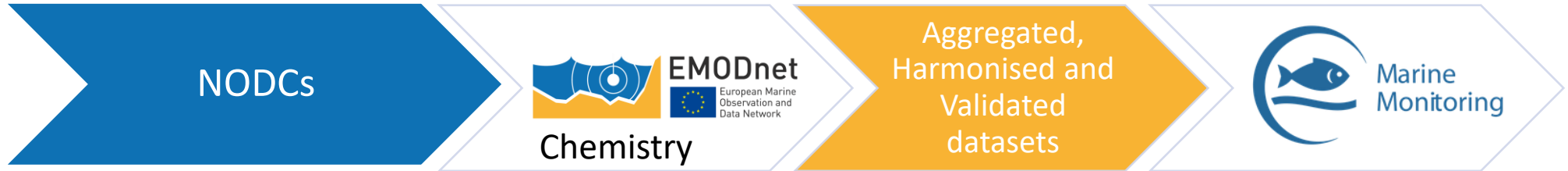
- **Marine pollution data in seawater, sediments and biota**
- **Collection, Aggregation, Standardization**
- **Quality Check**
- **User-tailored Data products and Tools (webODV)**
- **Open Access to HQ data and data products**
- **Supporting EU and global marine and climate change policies**
- **EU Data Portal for MSFD Data collection and management**



 EMODnet Chemistry geographical coverage

	Group of Parameters	Parameters		Group of Parameters	Parameters
 <p>MARINE LITTER</p>	Beach macro litter, Seafloor macro litter, Floating micro litter, micro litter in sediment	Composition, Abundance, etc.	 <p>CONTAMINANTS</p>	Antifoulants, Hydrocarbons, Heavy metals, Pesticides, Polychlorobiphenyls (PCBs), Radionuclides	Anthracene, Fluoranthene, Me, Cd, Pb, TBT, DDTs, etc.
 <p>OCEAN ACIDIFICATION</p>	Acidity	pH, PCO ₂ , etc.	 <p>EUTROPHICATION</p>	Nutrients, dissolved gases, etc.	N, P, Si, Chl-a, O ₂ , C, etc.

EMODnet Chemistry | *In situ* data flows



66 European centres

5 International organizations

500+ data providers

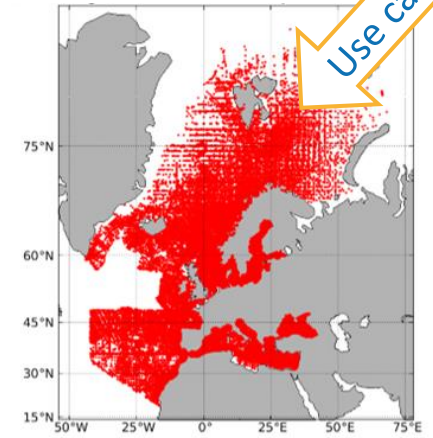
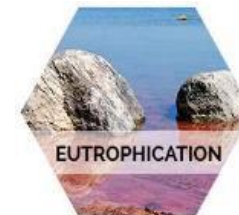
32 countries

The grid shows six dataset cards, each with a title, a small map, and a description. The titles are:

- Mediterranean Sea - Eutrophication and Acidity aggregated datasets 1911/2022...
- Black Sea - Eutrophication and Acidity aggregated datasets 1935/2022 v2022
- Baltic Sea - Eutrophication and Acidity aggregated datasets 1902/2022 v2022
- Arctic Ocean - Eutrophication and Acidity aggregated datasets 1923/2022 v2022
- Greater North Sea and Celtic Seas - Eutrophication and Acidity aggregated...
- North East Atlantic Ocean - Eutrophication and Acidity aggregated datasets...

 Each card includes a brief description of the dataset's purpose and source.

Data collections for all European sea basins



EMODnet Chemistry High quality BGC data into the CMEMS Thematic Assembly Centre products

EMODnet Chemistry | *In situ* data flows

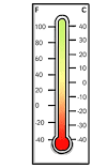
Facilitated by EMODnet Data ingestion

Near Real Time Data => Delayed Mode Data




- 66 European centres
- 5 International organizations
- 500+ data providers
- 32 countries

Data collections for all European sea basins



Salinity Temperature

EMODnet Chemistry | *In situ* data flows

Data flows between Copernicus Marine Service and EMODnet Chemistry

- EMODnet Chemistry is operated by a **network of data centres**, experts in data management: NODCs, marine institutes, environmental monitoring agencies from all EU countries and beyond
- There is no centralised data workflow, but a **distributed data network** with a **unique DD&AS**



EMODnet Chemistry | Other ongoing interactions with Copernicus Marine Service

- Joint **MSFD portfolio** of complementary products (EMODnet-CMEMS)
- Marine In situ Collaboration **MIC-WG** between EMODnet physics, chemistry, ingestion and INSTAC to unlock and access data
- Cooperation in **EuroSea** D3.13 Data Handbook & D3.17 Data Integration
- **FAIR-EASE** development of data lake
- **Blue-Cloud 2026** platform for collaborative marine research & the workbench aiming at building **highly qualified EOV datasets** for eutrophication variables: chlorophyll, nutrients, oxygen.

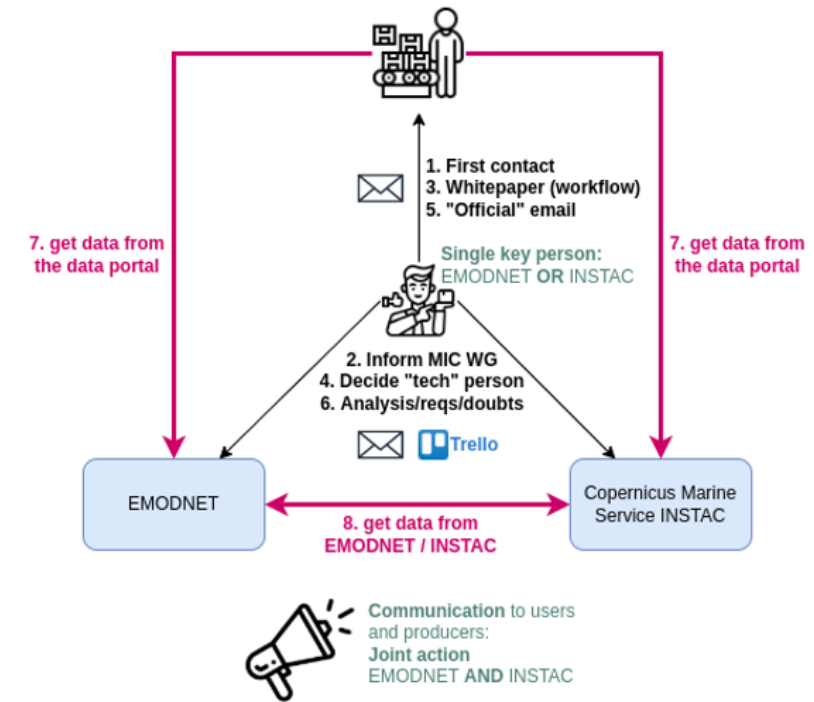
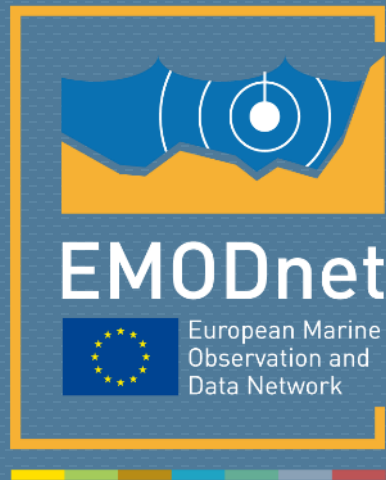


Figure. MIC data flow schema - it applies to operational in situ EOVs



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Your gateway to marine data in Europe

