



EMODnet

European Marine
Observation and
Data Network

EMODnet Jamboree
16-18 June 2021

Online event

EMODnet Chemistry - OBPS use case

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OGS

Outline



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- **Background** EMODnet Chemistry and focus on marine litter challenge
- What is a **best practice**?
- **Open repositories** and **FAIRness**
- **OBPS** use and **benefits** for EMODnet Chemistry
- **OBPS** possible **improvements**

EMODnet data management at European scale

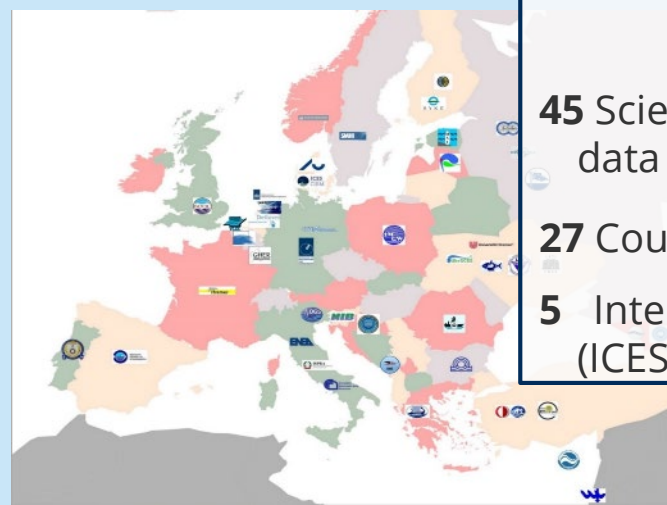
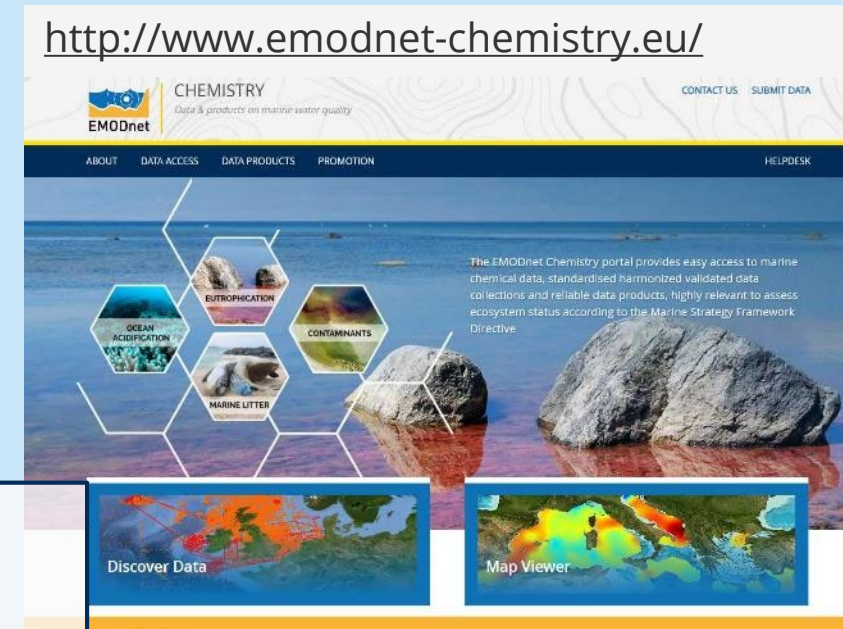


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- **Collection, Standardization, Quality check, and Aggregation of marine data relevant to the EU Marine Directives and to global challenges**
- **Provision of open access, HQ data and data products**

| | Group of Parameters | Parameters |
|----------------|---|---|
| Marine Litter | Beach macrolitter, Seafloor macrolitter, Floating microlitter | Composition, Abundance, etc. |
| Eutrophication | Nutrients, dissolved gases, etc. | N, P, Si, O ₂ , Chl-a, etc. |
| Contaminants | Hydrocarbons, Heavy metals, Pesticides, etc. | Anthracene, Fluoranthene, Me, Cd, Pb, TBT, DDTs, etc. |



The Network

- 45 Scientific institutes & data management experts
- 27 Countries
- 5 International organizations (ICES + RSCs)

Data and metadata standards

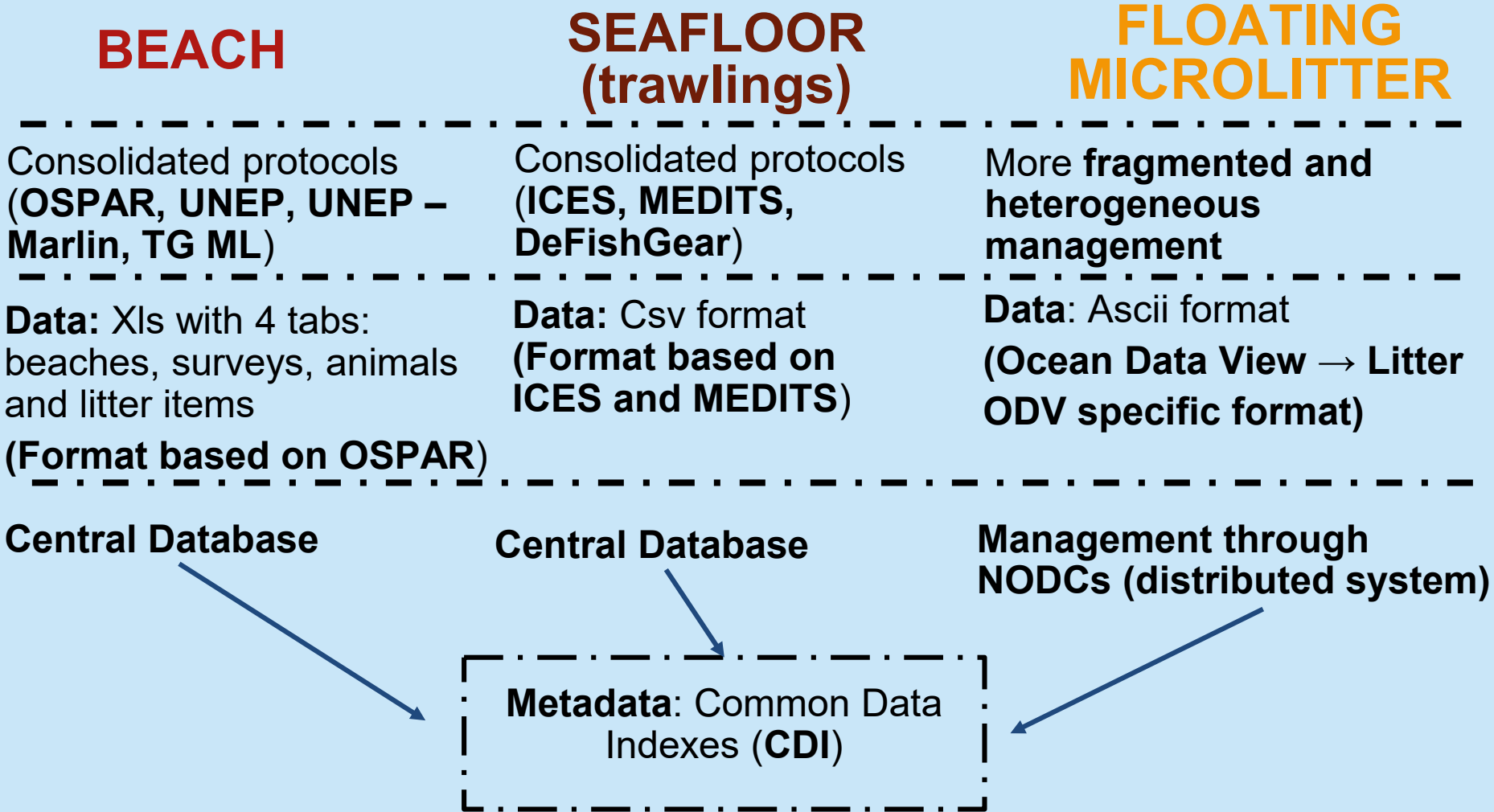


Marine litter: consolidated protocols and formats analysis ...existing best practices...



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More details at: <https://www.emodnet-chemistry.eu/marinelitter>

Best practices...



What is a Best Practice?

A best practice is a methodology that has repeatedly produced superior results relative to other methodologies with the same objective; to be fully elevated to a best practice, a promising method will have been adopted and employed by multiple organizations.

Best practice main features (from OBPS):

- **Methodology**
- **Repeatedly produced superior results for an objective**
- A promising method **adopted by multiple organizations**

Comment:

Different communities can develop different best practices with strength and weak points...

Best practices management and access with Open Repositories



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Open repositories to improve best practices management and FAIRness:

- **Findable:** well known tool providing easy and open access
- **Accessible:** Open Repositories with data policy management
- **Interoperable:** access with no platform limitation
- **Reliable:** long term storing, persistent identifiers, versioning of resources

Several options available:

- **OBPS:** <https://www.oceanbestpractices.org/repository/>
- **Zenodo:** <https://zenodo.org/>
- ...

OBPS benefits for EMODnet Chemistry



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- **Specific** for “**Marine**” topic
- **Long term storage** and **access** to project resources
- **Dedicated “collection”** created for project needs
- **Versioning** of resources
- **Persistent identifiers** (DOIs)
- Possible **help on importing resources from other Open Repositories** (e.g. Zenodo)

OBPS use for EMODnet Chemistry



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Marine Litter guidelines management

⇒ EMODnet Chemistry [4]

Immissioni Recenti

| | |
|--|---|
| | <p>Guidelines and forms for gathering marine litter data: beach and seafloor trawlings. Updated version 11/01/2021.</p> <p>Caligiani, Francois; Giorgetti, Alessandra; Le Moigne, Morgan; Brosich, Alberto; Vinci, Matteo; Lipizer, Marina; Molina, Eugenia; Holdsworth, Neil; Schlitzer, Reiner; Hanke, Georg; Moncoiffe, Gwenaelle; Schaap, Dick; Giorgi, Giordano; Addamo, Anna; Chaves Montero, Maria del Mar (EMODnet Chemistry 3, 2021)</p> <p>As part of the 3rd phase of EMODnet Chemistry, the scope of attention has been expanded with gathering data and developing access to data and data products for marine litter. This document gives background information ...</p> |
| | <p>Proposal for gathering and managing data sets on marine micro-litter on a European scale. Updated version: 07/06/2019.</p> <p>Caligiani, Francois; Giorgetti, Alessandra; Le Moigne, Morgan; Brosich, Alberto; Vinci, Matteo; Lipizer, Marina; Molina, Eugenia; Holdsworth, Neil; Schlitzer, Reiner; Hanke, Georg; Schaap, Dick; Addamo, Anna (EMODnet, Oostende, Belgium, 2019)</p> <p>As part of the 3rd phase of EMODnet Chemistry the scope of attention has been expanded with gathering data and developing access to data and data products for Marine Litter. This document gives background information ...</p> |
| | <p>Guidelines and forms for gathering marine litter data, Updated version: 26/03/2019. [SUPERSEDED by : http://dx.doi.org/10.25607/OBP-495]</p> <p>Caligiani, Francois; Giorgetti, Alessandra; Le Moigne, Morgan; Brosich, Alberto; Vinci, Matteo; Lipizer, Marina; Molina, Eugenia; Holdsworth, Neil; Schlitzer, Reiner; Hanke, Georg; Moncoiffe, Gwenaelle; Schaap, Dick; Giorgi, Giordano; Addamo, Anna; Chaves Montero, Maria del Mar (EMODnet, Oostende, Belgium, 2019)</p> <p>As part of the 3rd phase of EMODnet Chemistry, the scope of attention has been expanded with gathering data and developing access to data and data products for marine litter. This document gives background information about ...</p> |

<https://repository.oceanbestpractices.org/handle/11329/544>

OBPS use for EMODnet Chemistry



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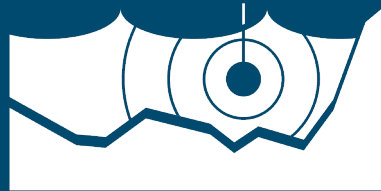
OBPS possible improvements...



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- **Improvements on automatic versioning system will streamline the upload process** (ongoing upgrades...)
- **Improvements on automatic import/export from other open repositories** (e.g. Zenodo, Euroqcharm use case)



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