



EMODnet



European Marine
Observation and
Data Network

EMODnet Metadata Review and Harmonization Distribution information & resource constraints

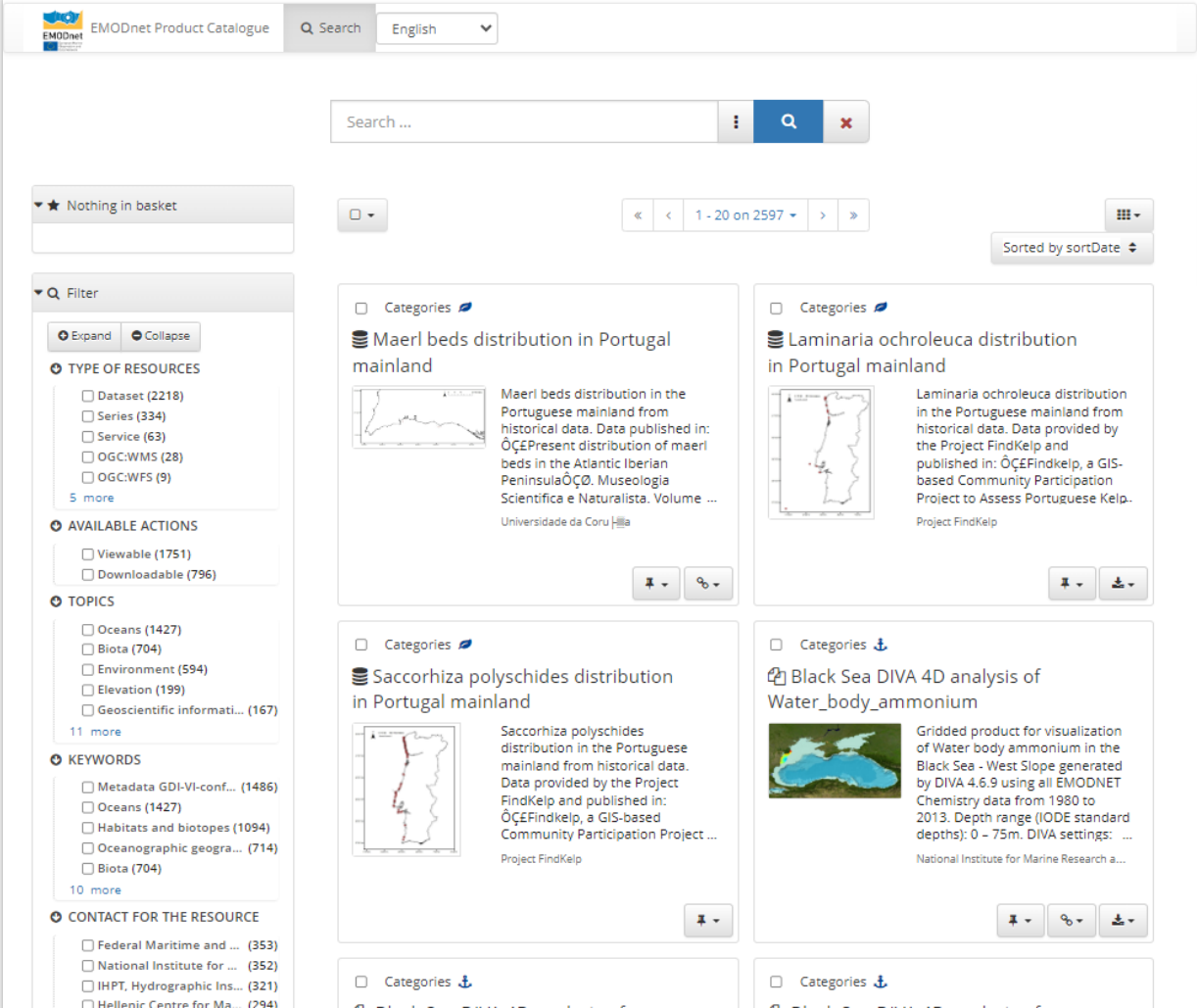
14th EMODnet Technical Working Group
18 October 2023

Tim Collart

EMODnet Secretariat
emodnet.ec.europa.eu

Harmonize EMODnet metadata: Why?

- Users access metadata through one central EMODnet catalogue



The screenshot displays the EMODnet Product Catalogue interface. At the top, there is a search bar with the text "Search ..." and a language dropdown menu set to "English". Below the search bar, a navigation bar shows "1 - 20 on 2597" and a "Sorted by sortDate" dropdown. On the left side, there is a "Filter" panel with sections for "TYPE OF RESOURCES", "AVAILABLE ACTIONS", "TOPICS", "KEYWORDS", and "CONTACT FOR THE RESOURCE". The main content area displays a grid of search results. Each result card includes a title, a small thumbnail image, a brief description, and the publisher's name. The visible results are:

- Maerl beds distribution in Portugal mainland**: Maerl beds distribution in the Portuguese mainland from historical data. Data published in: ÔÇÉPresent distribution of maerl beds in the Atlantic Iberian Peninsula. Museu da Universidade da Coru...
- Laminaria ochroleuca distribution in Portugal mainland**: Laminaria ochroleuca distribution in the Portuguese mainland from historical data. Data provided by the Project FindKelp and published in: ÔÇÉFindKelp, a GIS-based Community Participation Project to Assess Portuguese Kelp...
- Saccorhiza polyschides distribution in Portugal mainland**: Saccorhiza polyschides distribution in the Portuguese mainland from historical data. Data provided by the Project FindKelp and published in: ÔÇÉFindKelp, a GIS-based Community Participation Project ...
- Black Sea DIVA 4D analysis of Water_body_ammonium**: Gridded product for visualization of Water body ammonium in the Black Sea - West Slope generated by DIVA 4.6.9 using all EMODNET Chemistry data from 1980 to 2013. Depth range (ODE standard depths): 0 - 75m. DIVA settings: ...

Harmonize EMODnet metadata: Why?

- Users access metadata through one central EMODnet catalogue
 - Need to further improve on how metadata and download options are displayed to users
 - Requires metadata from different thematics to be formatted in a common way

The screenshot displays the EMODnet metadata catalogue interface. At the top, there is a search bar and navigation controls. A left sidebar contains a filter menu with sections for 'TYPE OF RESOURCES', 'AVAILABLE ACTIONS', 'TOPICS', 'KEYWORDS', and 'CONTACT FOR THE RESOURCE'. The main content area shows a grid of dataset cards. Each card includes a title, a small map or image, a description, and a 'Categories' dropdown menu. A yellow box highlights the 'Categories' dropdown for the 'Maerl beds distribution in Portugal mainland' dataset, showing options like 'Downloadable'. Another yellow box highlights the 'Categories' dropdown for the 'Black Sea DIVA 4D analysis of Water_body_ammonium' dataset, showing seasonal options: 'OPeNDAP (winter)', 'OPeNDAP (spring)', 'OPeNDAP (summer)', and 'OPeNDAP (autumn)'.

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Black Sea DIVA 4D analysis of Water_body_ammonium

Gridded product for visualization of Water body ammonium in the Black Sea - West Slope generated by DIVA 4.6.9 using all EMODNET Chemistry data from 1980 to 2013. Depth range (IODE standard depths): 0 - 75m. DIVA settings: signal-to-noise ratio and correlation length were estimated using data mean distance as a minimum (for L), and both parameters vertically filtered. Background field: the data mean value is subtracted from the data. Detrending of data: no. Advection constraint applied: no. Every year of the time dimension corresponds to a 10-year centred average for each season: - winter: December - February, - spring: March - May, - summer: June - August, - autumn: September - November Units: umol/l

Identification Content ReferenceSystem Quality DomainConsistency

mdLegalAndSecurityConstraintsSection

Resource constraints

Legal constraints

Use limitation	Transcopyright: http://transcopyright.org/#License
Access constraints	unrestricted: unrestricted
Use constraints	Other restrictions: Limitation not listed

Other constraints

Other constraints	Usage is subject to mandatory citation: "This resource was generated in the framework of EMODnet Chemistry, under the support of DG MARE Call for Tender EASME/EMFF/2016/006 - lot4."
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Overview

NH4_Winter_L2.png

Spatial extent

Bounding box description

bounding box

Bounding box

Temporal extent

Period

1980-03-01 ▶▶ 2013-11-30

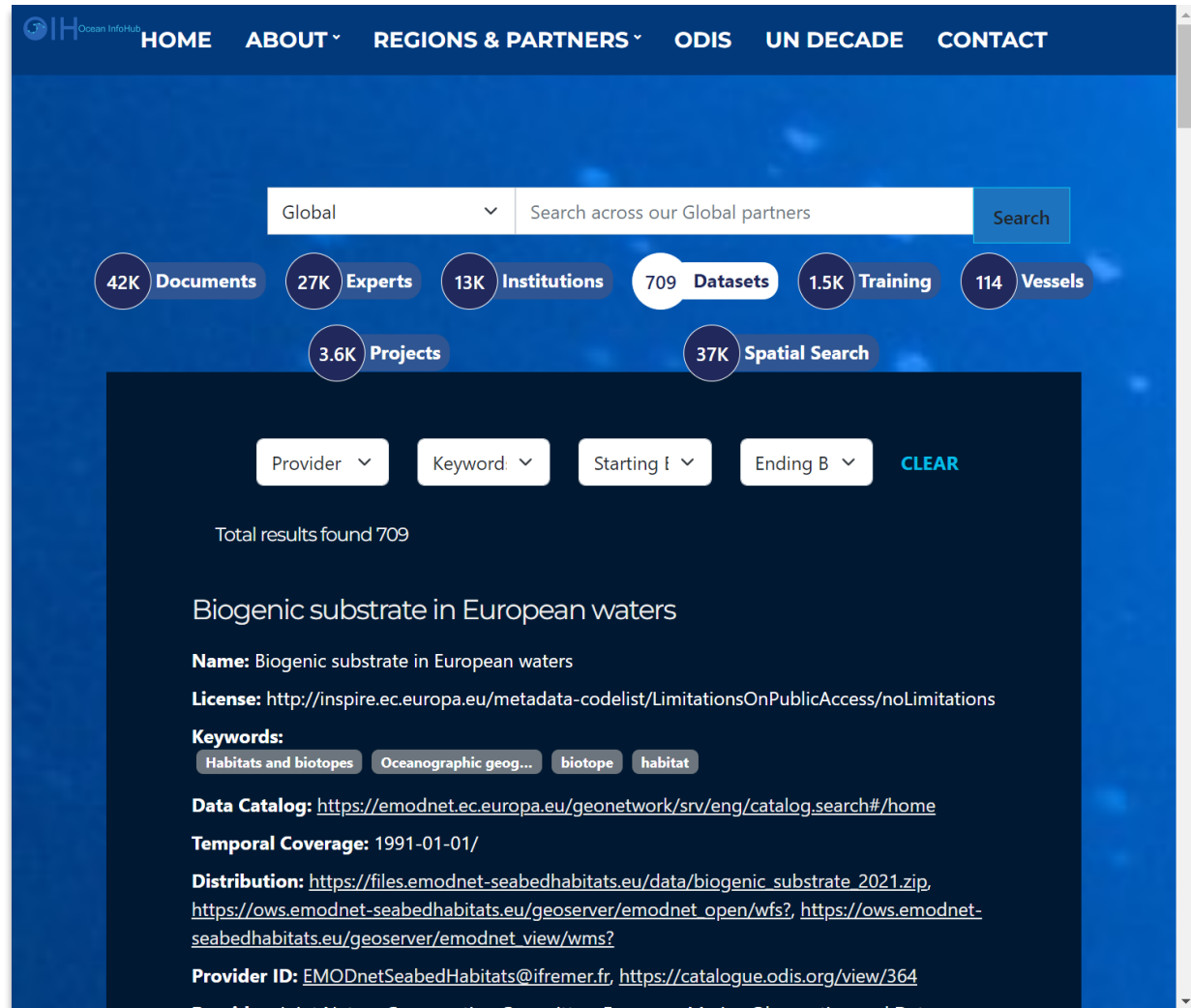
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- EMODnet catalogue is harvested in other portals:
 - Already harvesting:
 - GEOSS

The screenshot displays the GEOSS Portal interface. At the top, there are logos for GEOSS (Group on Earth Observations) and ESA, along with a language selector set to English. A search bar is present with the placeholder text "Enter search words". Below the search bar, there are filter options under the heading "FILTER BY" and "ADVANCED". The filters include "Keyword", "Format", "Protocol", "Organisation", and "Service Health". A search result is selected, showing a list of metadata items. The results are displayed in a grid format, each with a thumbnail image and a title. The titles include "Global habitat suitability for Stolonifera cold water...", "EMODnet Digital Bathymetry (DTM 2022) - ...", "Bathymetry of Saint Croix, the U.S. Virgin Islands", "Seabed Habitat (EUNIS) - FR9402014 'Grand Herbi...", "The Nature Conservancy Caribbean Benthic Habitat...", and "Total Suspended Matter Baltic Sea". At the bottom of the search results, there is a "Sources:" section showing "GEOSS [3k]" and a pagination indicator "6 of 215". The footer contains copyright information for OpenStreetMap, EuroGeographics, FAO, and Eurostat/GISCO, along with a disclaimer and a scale bar of 2000 km.

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 - Ocean Info Hub



The screenshot displays the EMODnet Ocean InfoHub website interface. At the top, there is a navigation menu with links for HOME, ABOUT, REGIONS & PARTNERS, ODIS, UN DECADE, and CONTACT. Below the navigation is a search bar with a dropdown menu set to 'Global' and a search button. A row of circular statistics shows: 42K Documents, 27K Experts, 13K Institutions, 709 Datasets (highlighted), 1.5K Training, and 114 Vessels. Below this, there are two more statistics: 3.6K Projects and 37K Spatial Search. A search filter section includes dropdowns for Provider, Keyword, Starting I, and Ending B, along with a CLEAR button. The search results section shows 'Total results found 709' and a result titled 'Biogenic substrate in European waters'. The result details include: Name: Biogenic substrate in European waters; License: <http://inspire.ec.europa.eu/metadata-codelist/LimitationsOnPublicAccess/noLimitations>; Keywords: Habitats and biotopes, Oceanographic geog..., biotope, habitat; Data Catalog: <https://emodnet.ec.europa.eu/geonetwork/srv/eng/catalog.search#/home>; Temporal Coverage: 1991-01-01/; Distribution: https://files.emodnet-seabedhabitats.eu/data/biogenic_substrate_2021.zip, https://ows.emodnet-seabedhabitats.eu/geoserver/emodnet_open/wfs?, https://ows.emodnet-seabedhabitats.eu/geoserver/emodnet_view/wms?; Provider ID: EMODnetSeabedHabitats@ifremer.fr, <https://catalogue.odis.org/view/364>.

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 - Future plans:
 - EU DATA PORTAL
 - INSPIRE PORTAL



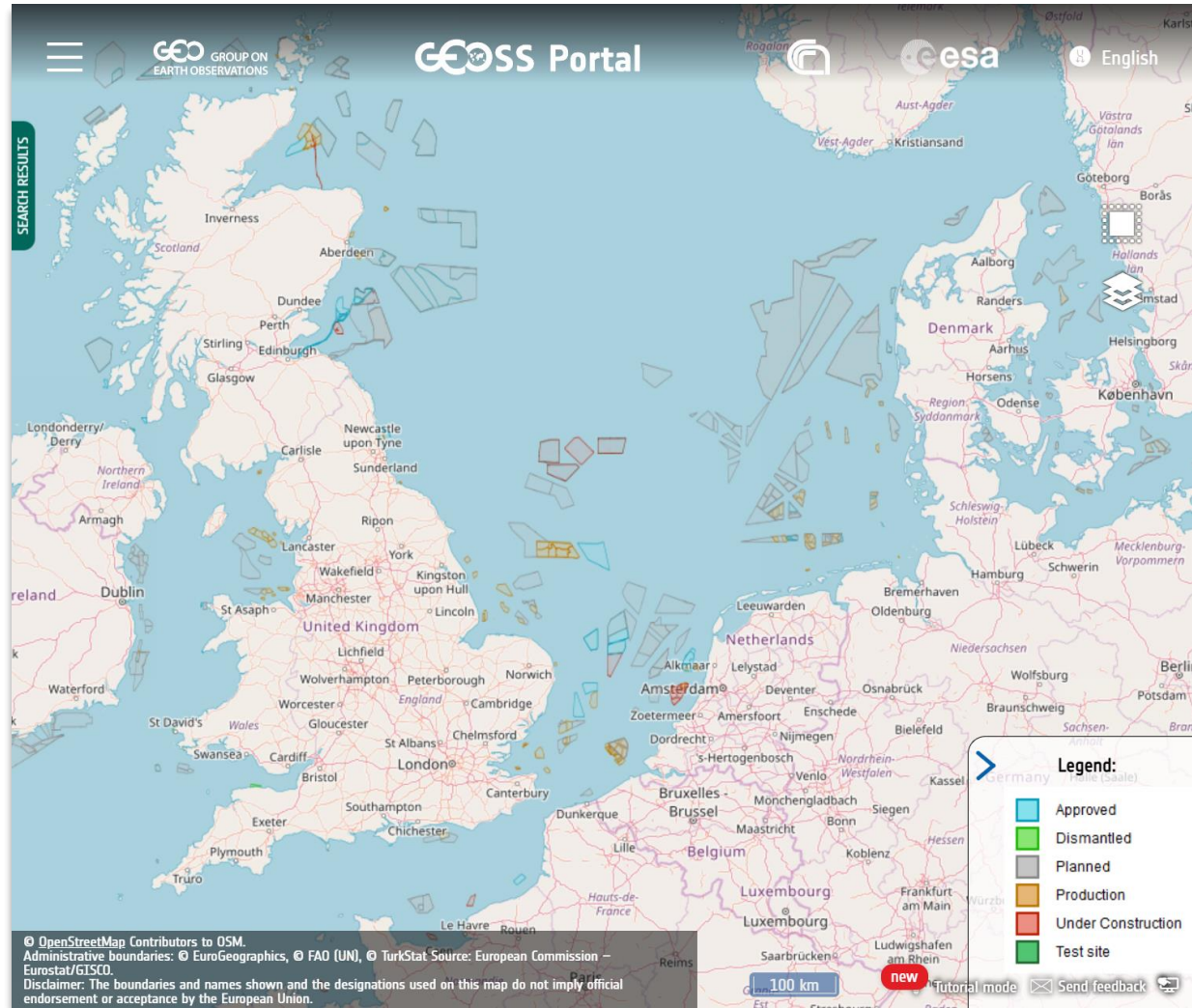
EUROPEAN
DATA PORTAL



INSPIRE GEOPORTAL

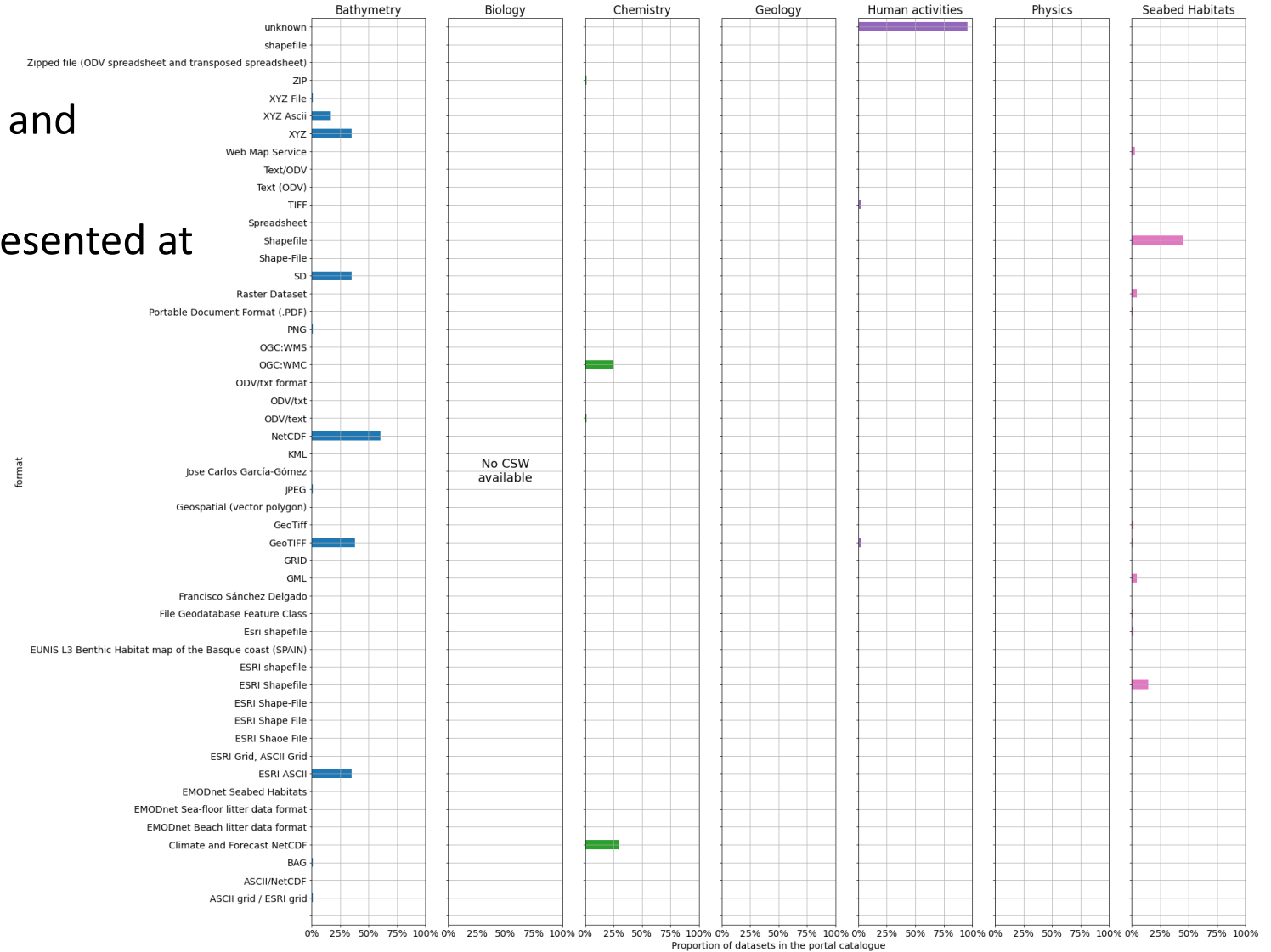
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 - INSPIRE PORTAL
 - Improving interoperability with these platforms requires metadata to be formatted according to ISO/INSPIRE standards



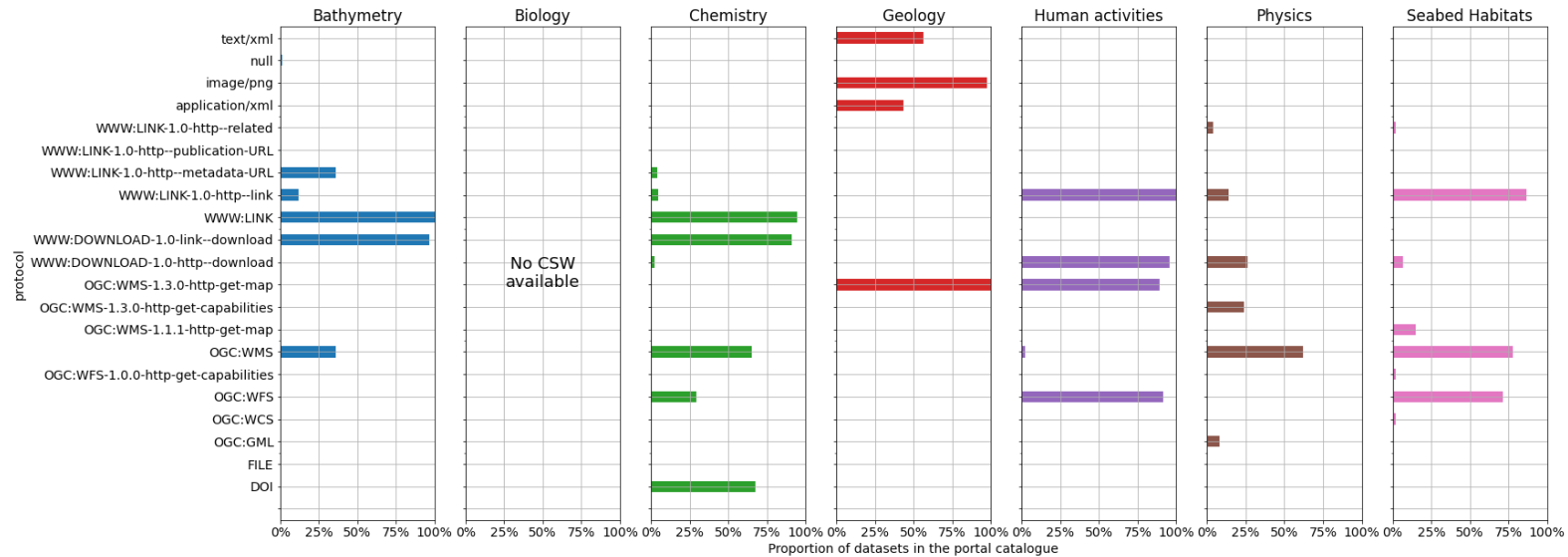
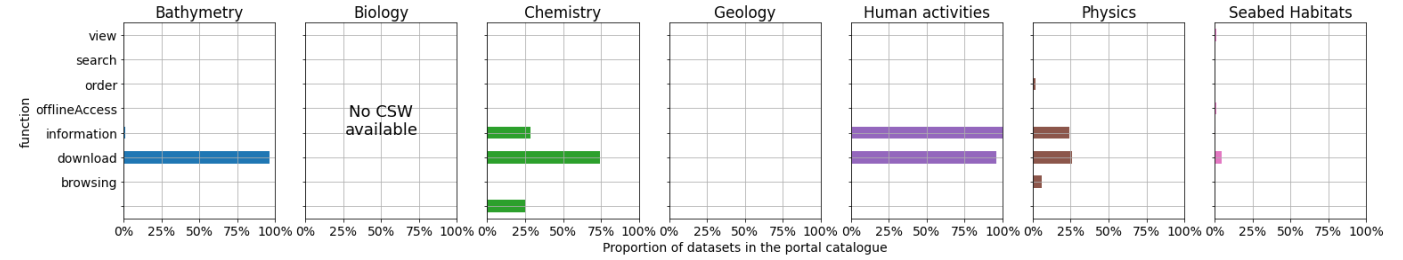
Harmonize EMODnet metadata: What?

- Prioritise metadata fields important for use and access to EMODnet products
- Analysed in EMODnet Secretariat D2.4 & presented at TWG 13
- Distribution Information
 - Format



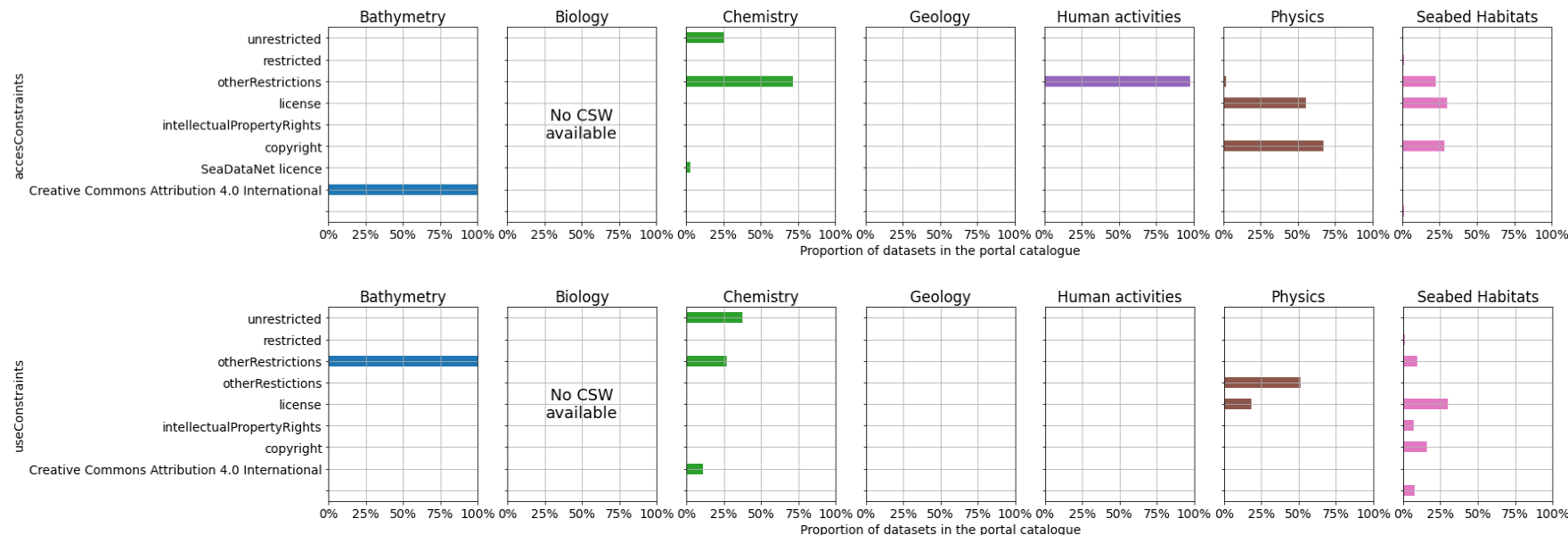
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 - Transfer Options



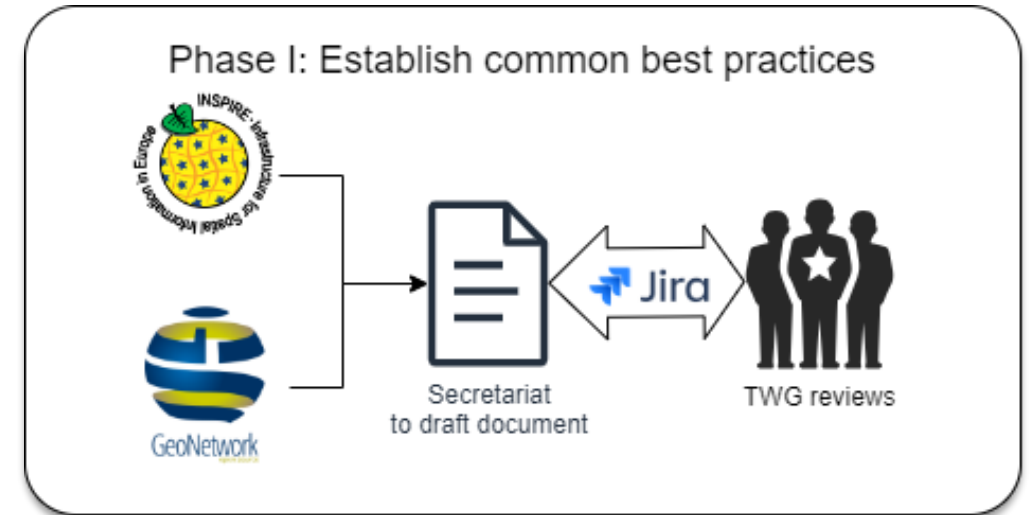
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- Distribution Information
 - Format
 - Transfer Options
- Resource Constraints
 - Use-Limitations
 - Use and Access Constrains



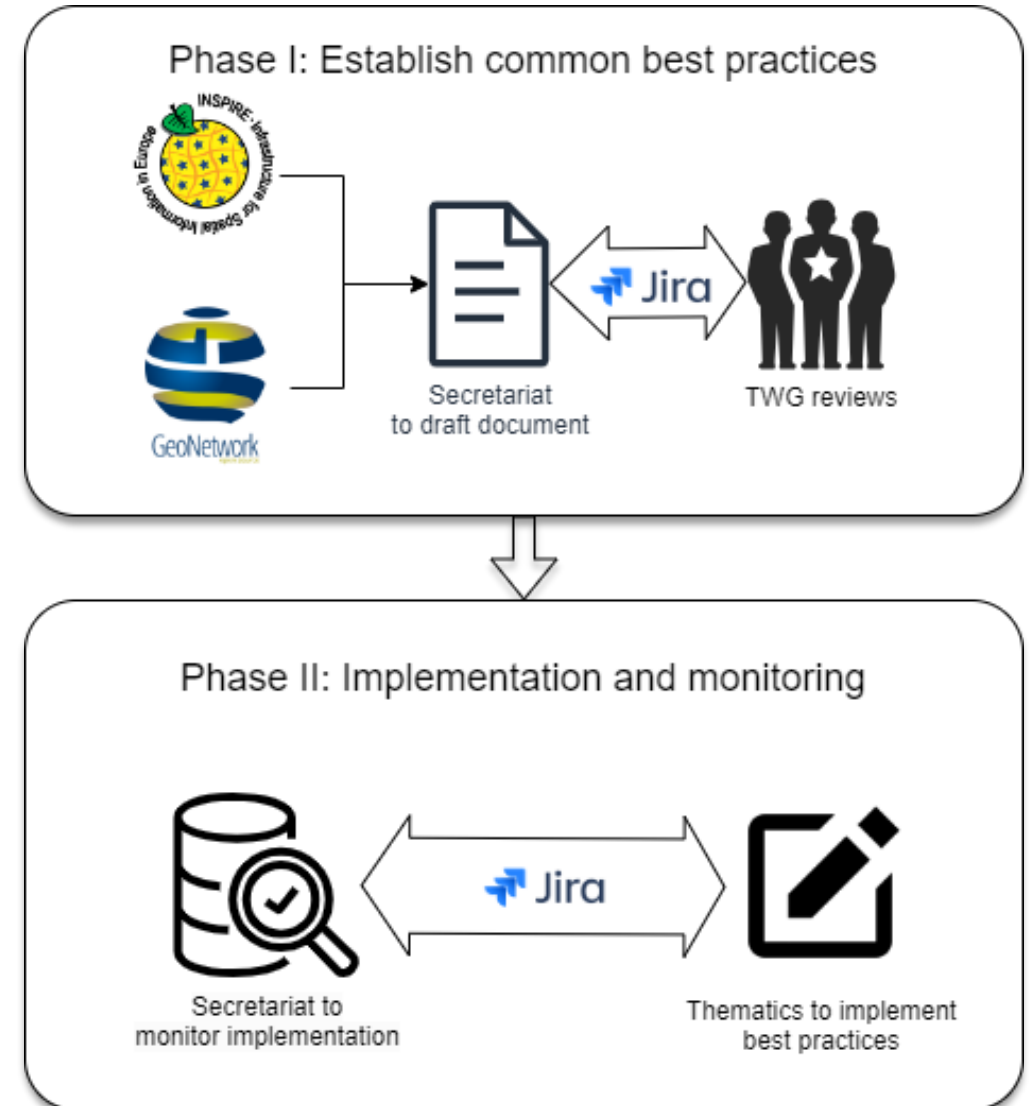
Harmonize EMODnet metadata: How?

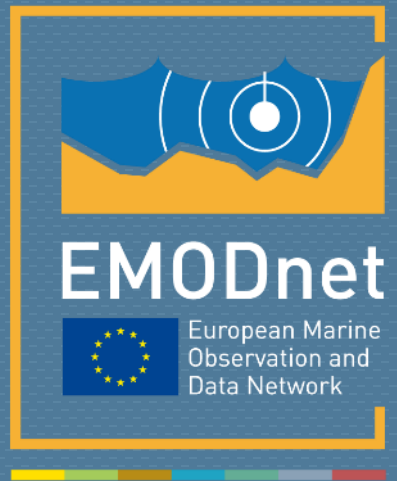
- Phase I: Establish common best practices
 - Secretariat is preparing a document with best practices on how to implement these metadata fields based on:
 - INSPIRE Technical Guidelines
 - GeoNetwork documentation
 - TWG to review the document and provide feedback to establish common best practices.



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 - INSPIRE Technical Guidelines
 - GeoNetwork documentation
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- Phase II: Implementation and monitoring
 - Thematics to implement these best practices in their metadata records
 - Secretariat will develop automated evaluation of the implementation as part of the Quarterly Reporting Cycle





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Your gateway to marine data in Europe

