

European Atlas of the Seas

Content
maintenance &
development

*EMODnet Secretariat
Steering Committee Meeting
17 April 2024*



Achievements since last meeting (27 March 2023)

added

3

updated

48

Achievements since last meeting (27 March 2023)

added

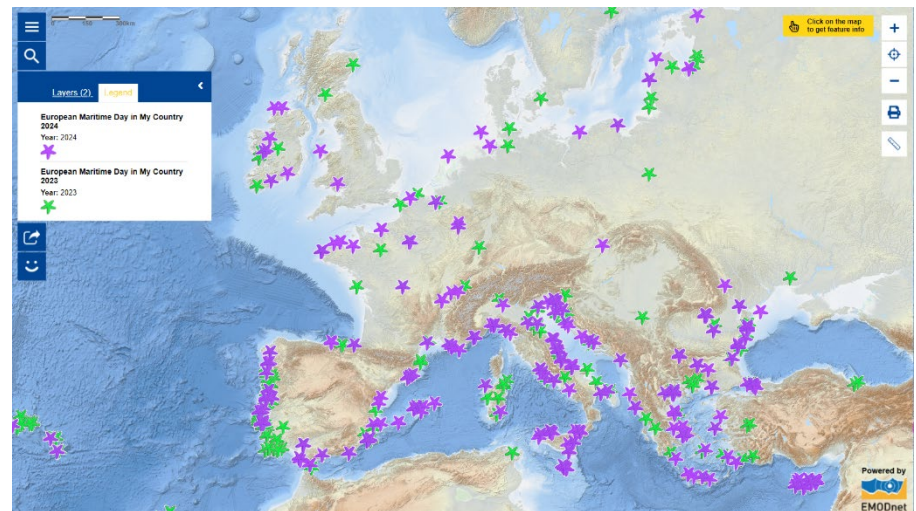
- Education 4 Climate Citizen Science Map



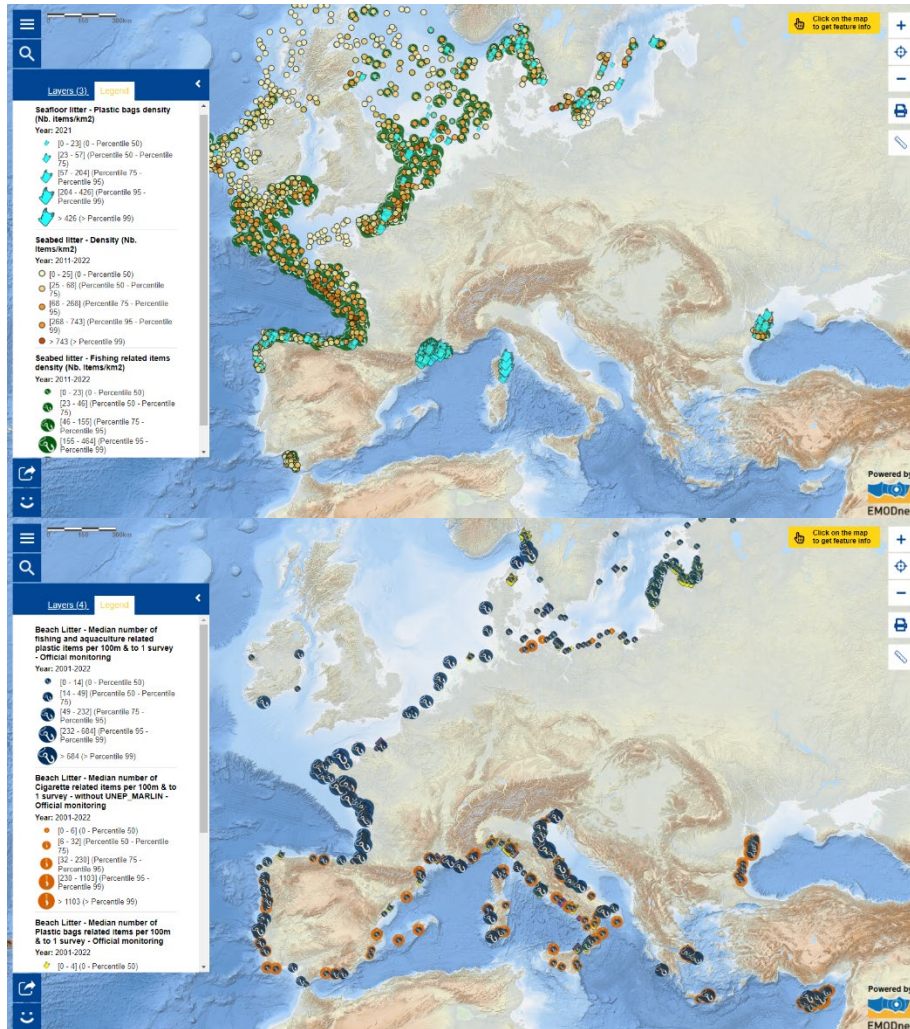
Achievements since last meeting (27 March 2023)

added

- Education 4 Climate Citizen Science Map
- European Maritime Day in My Country 2023
 - Geocaching game
- European Maritime Day in my country 2024
 - Blue Economy Challenge



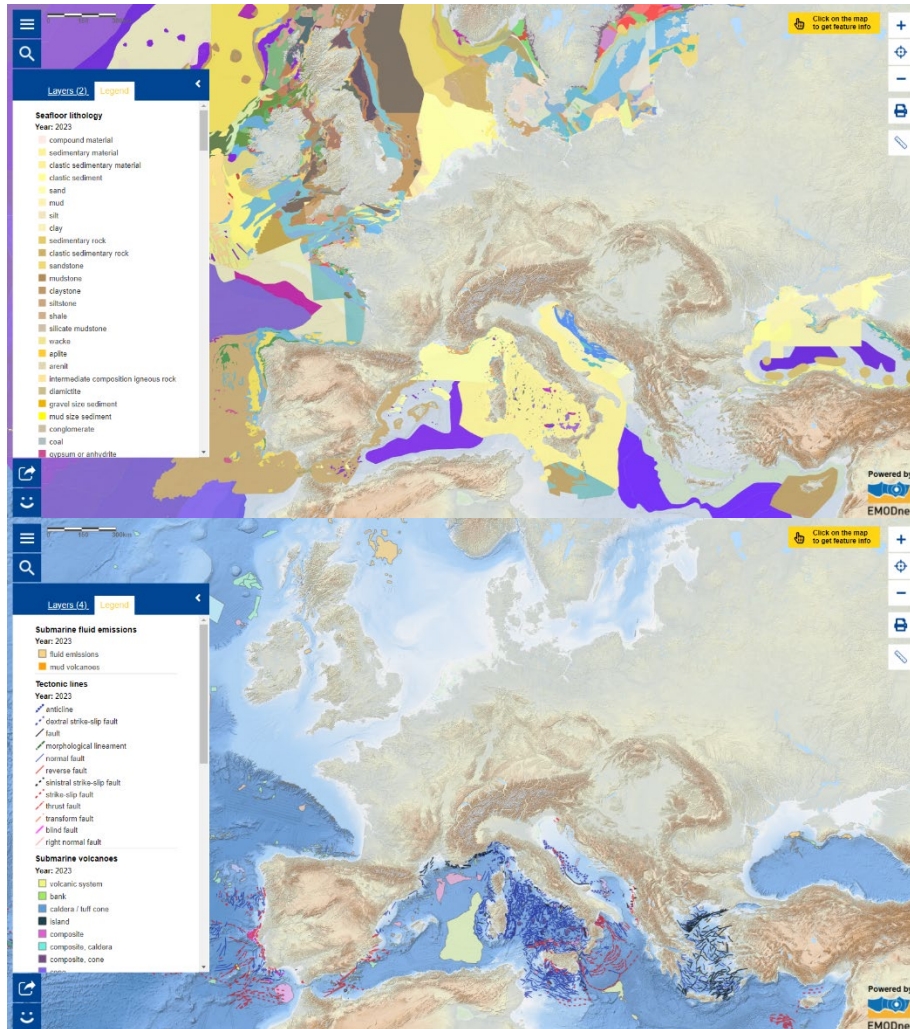
Achievements since last meeting (27 March 2023)



updated

- *EMODnet Chemistry*
 - Seabed litter - Fishing related items density (Nb. Items/km²)
 - Seabed litter - Density (Nb. Items/km²)
 - Seafloor litter - Plastic bags density (Nb. items/km²)
 - Beach Litter - Median number of fishing and aquaculture related plastic items per 100m & to 1 survey - Official monitoring
 - Beach Litter - Median number of Cigarette related items per 100m & to 1 survey - without UNEP_MARLIN - Official monitoring
 - Beach Litter - Median total number of litter items per 100m & to 1 survey - Official monitoring
 - Beach Litter - Median number of Plastic bags related items per 100m & to 1 survey - Official monitoring

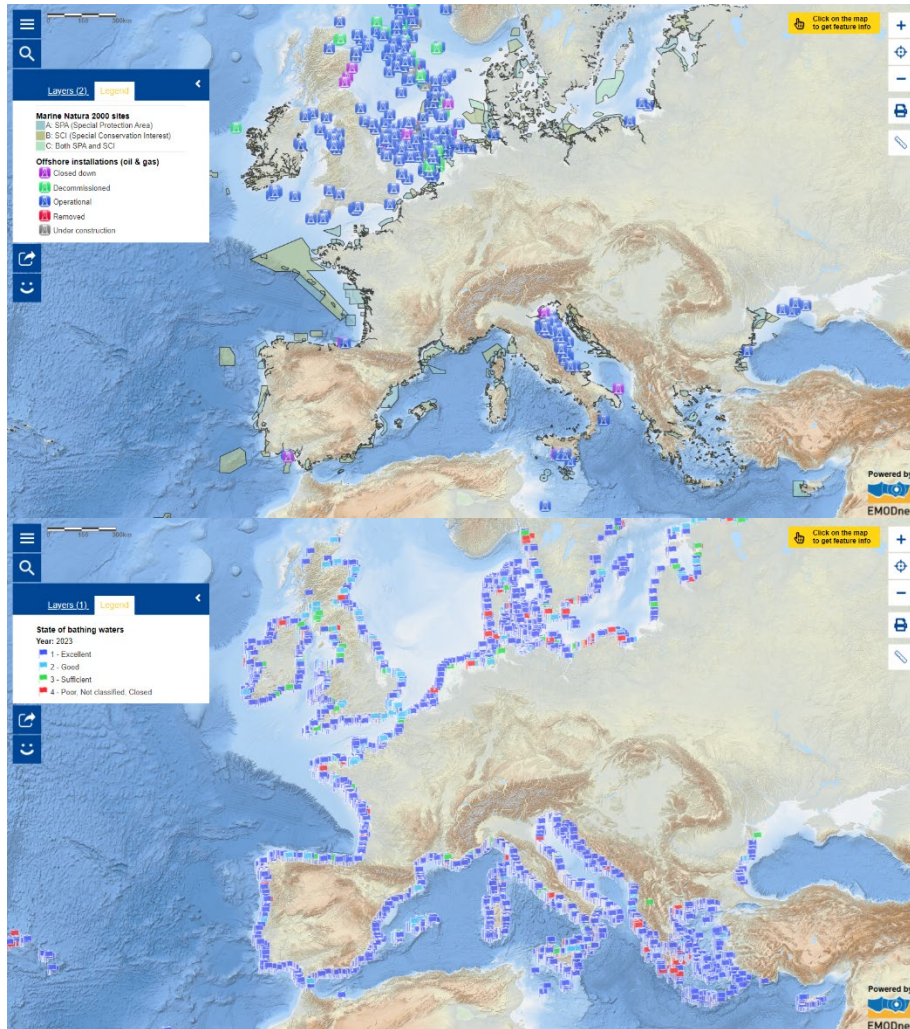
Achievements since last meeting (27 March 2023)



updated

- *EMODnet Geology*
 - Seafloor stratigraphy
 - Seafloor lithology
 - Tectonic lines
 - Submarine fluid emissions
 - Submarine volcanoes
 - Submarine landslides

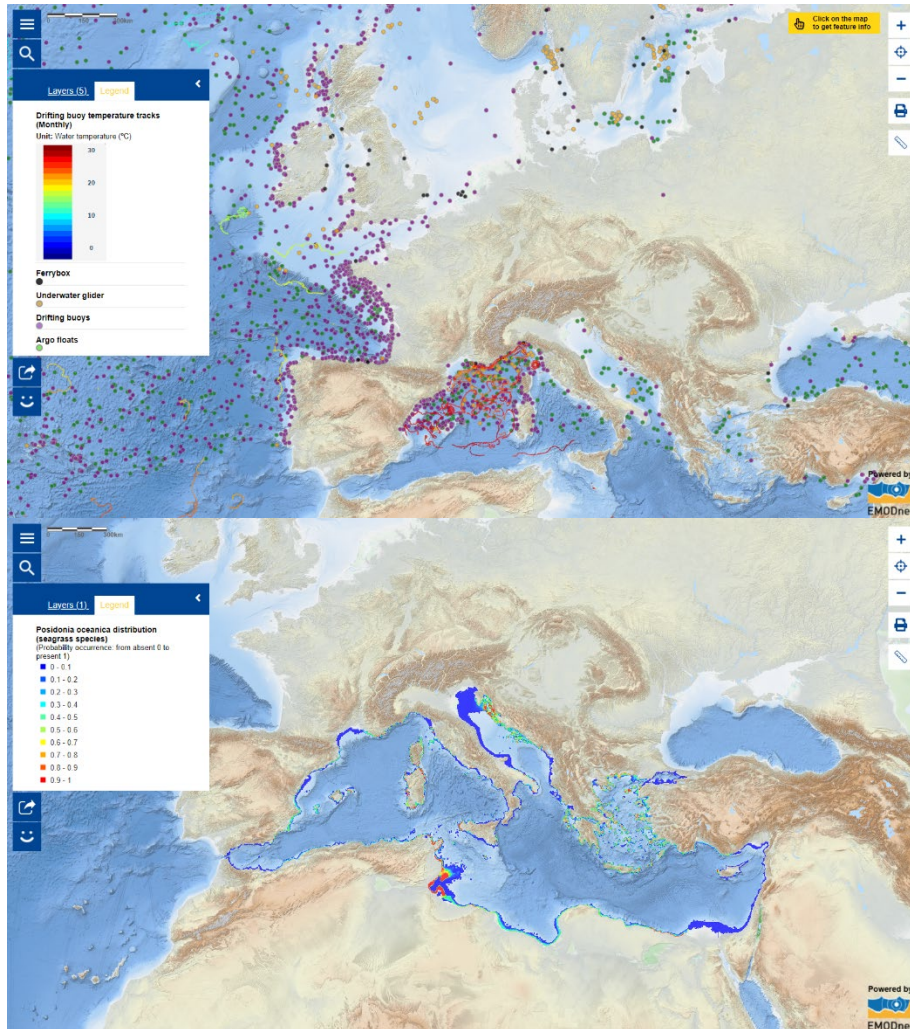
Achievements since last meeting (27 March 2023)



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- *EMODnet Geology*
 - Seafloor stratigraphy
 - Seafloor lithology
 - Tectonic lines
 - Submarine fluid emissions
 - Submarine volcanoes
 - Submarine landslides
- *EMODnet Human Activities*
 - Marine Natura 2000 sites
 - Offshore installations (oil & gas)
 - State of bathing waters

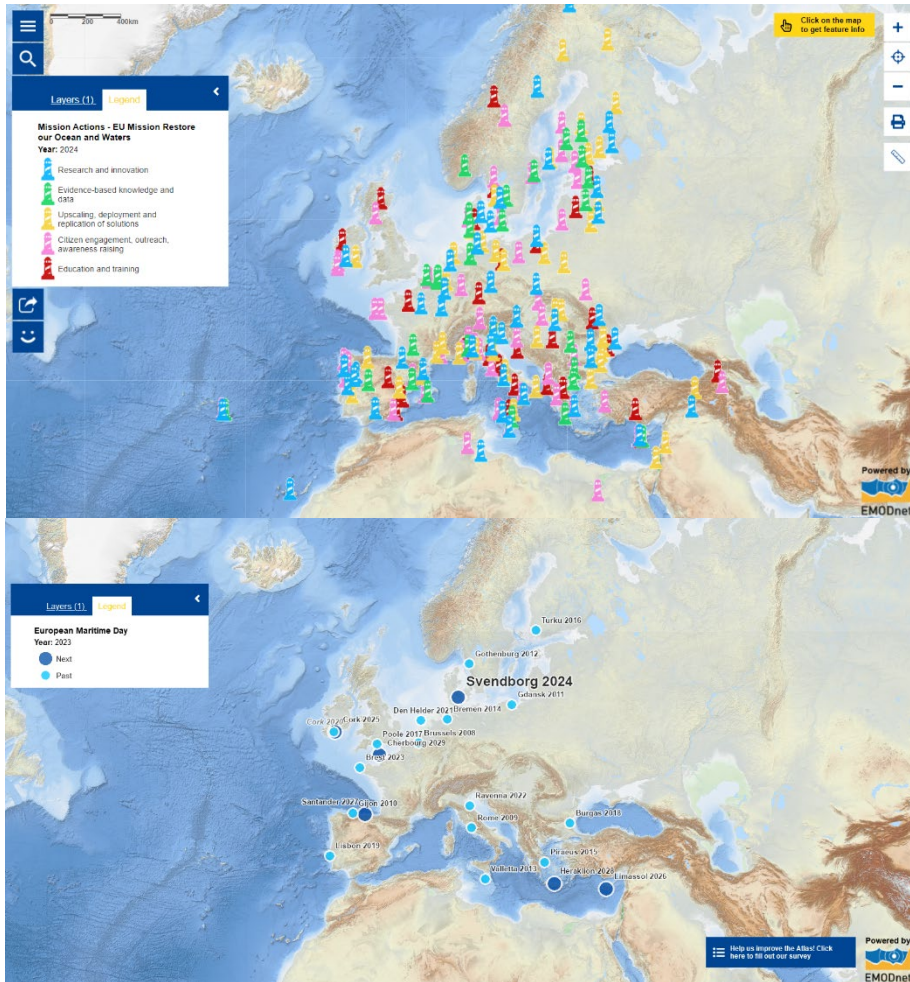
Achievements since last meeting (27 March 2023)



updated

- *EMODnet Geology*
 - Seafloor stratigraphy
 - Seafloor lithology
 - Tectonic lines
 - Submarine fluid emissions
 - Submarine volcanoes
 - Submarine landslides
- *EMODnet Human Activities*
 - Marine Natura 2000 sites
 - Offshore installations (oil & gas)
 - State of bathing waters
- *EMODnet Physics*
 - 14 layers updated to the new map service
- *EMODnet Seabed Habitats*
 - Posidonia oceanica distribution (seagrass species)

Achievements since last meeting (27 March 2023)

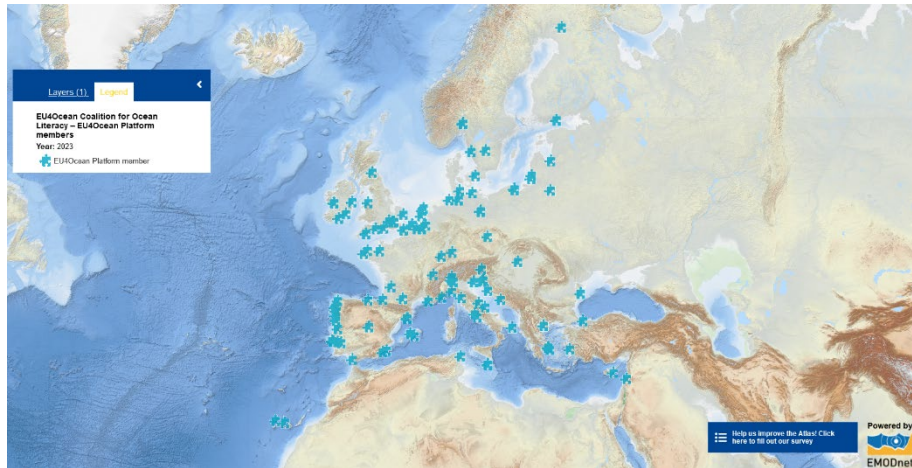


updated

- *DG MARE*
 - Mission Actions - EU Mission Restore our Ocean and Waters (updated 7 times!)
 - European Maritime Day



Achievements since last meeting (27 March 2023)

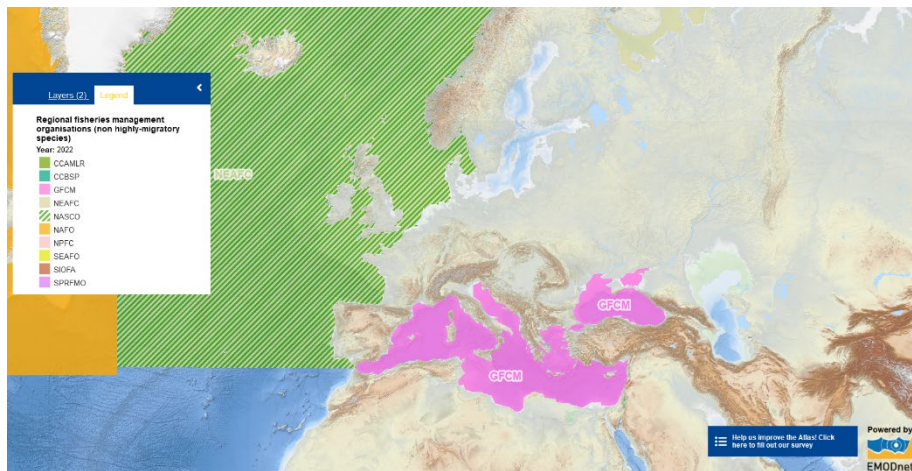


updated

- *DG MARE*
 - Mission Actions - EU Mission Restore our Ocean and Waters (updated 7 times!)
 - European Maritime Day
 - EU4Ocean Coalition for Ocean Literacy - EU4Ocean Platform members
 - Network of European Blue Schools



Achievements since last meeting (27 March 2023)

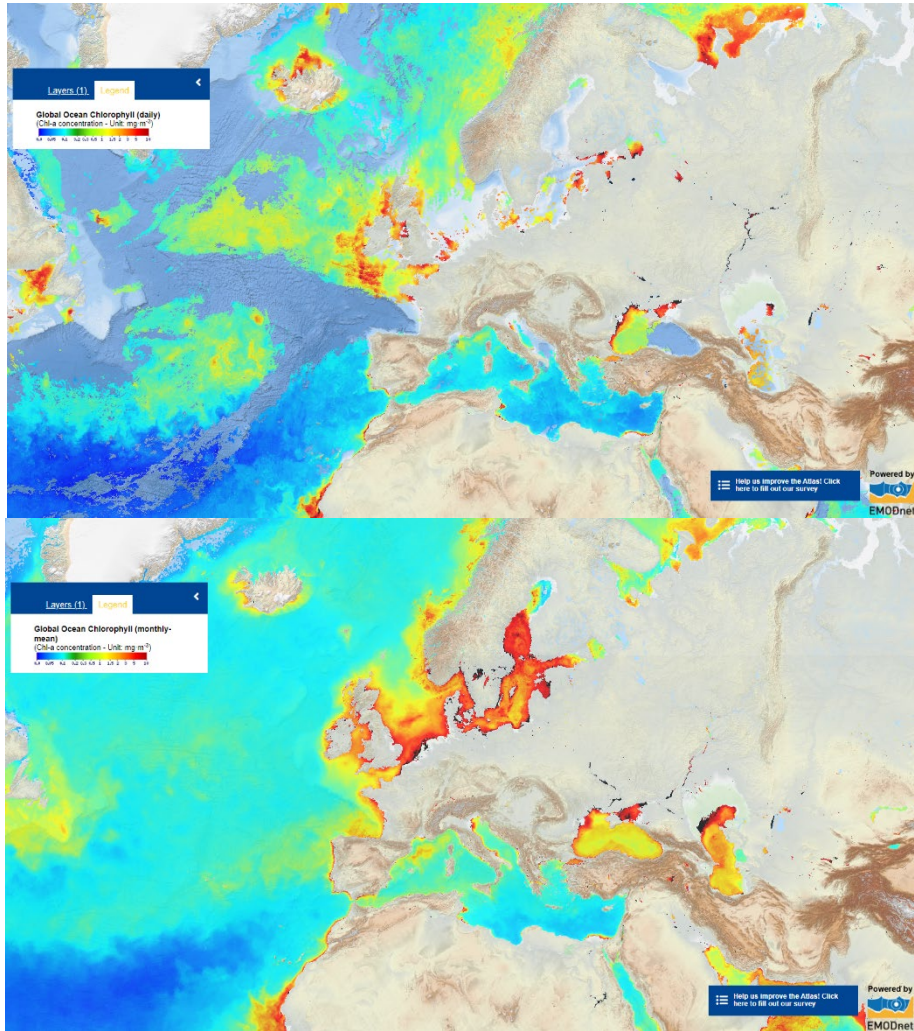


updated

- *DG MARE*
 - Mission Actions - EU Mission Restore our Ocean and Waters (updated 7 times!)
 - European Maritime Day
 - EU4Ocean Coalition for Ocean Literacy - EU4Ocean Platform members
 - Network of European Blue Schools
 - Regional fisheries management organisations (highly-migratory species)
 - Regional fisheries management organisations (non highly-migratory species)



Achievements since last meeting (27 March 2023)



updated

- *Copernicus Marine Service*
 - Global Ocean Chlorophyll (daily)
 - Global Ocean Chlorophyll (monthly mean)



Copernicus
Marine Service

Achievements since last meeting (27 March 2023)



updated

- *European Environment Agency*
 - Coastal Geology

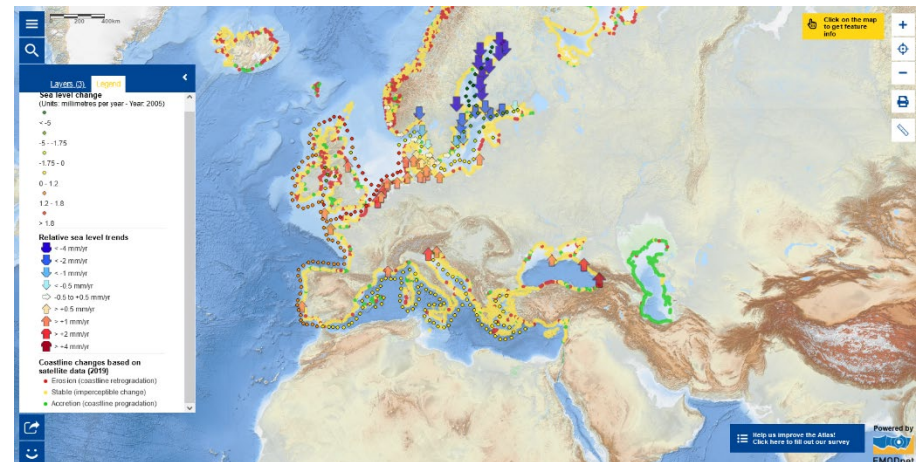


European
Environment
Agency

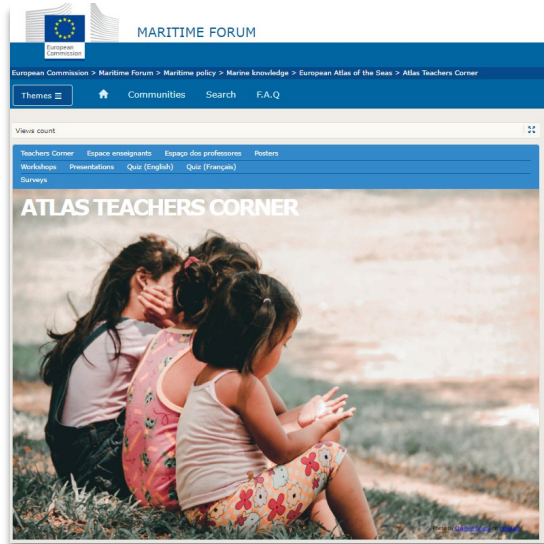
Achievements since last meeting (27 March 2023)

predefined maps

- *5 new predefined maps on topics in line with the pillars of the EU Green Deal*
- *Available in 24 languages*

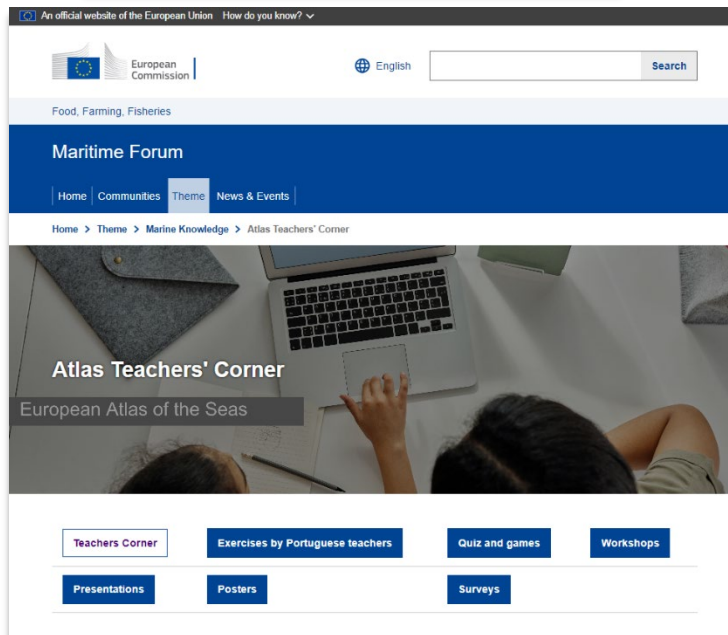


Achievements since last meeting (27 March 2023)

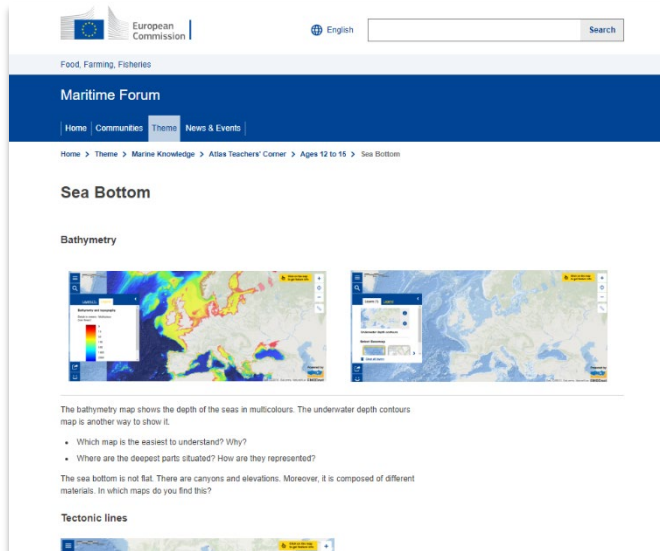
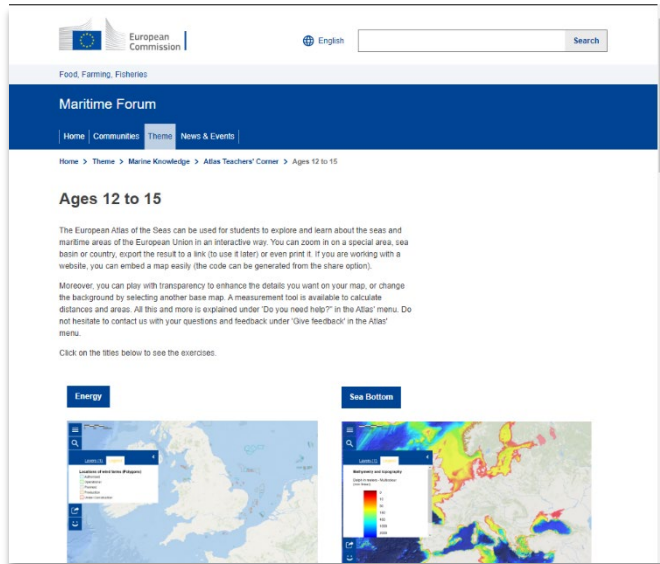


Maritime Forum

- *Migrated Teacher's Corner and Atlas Communities to the new Maritime Forum in EWPP*



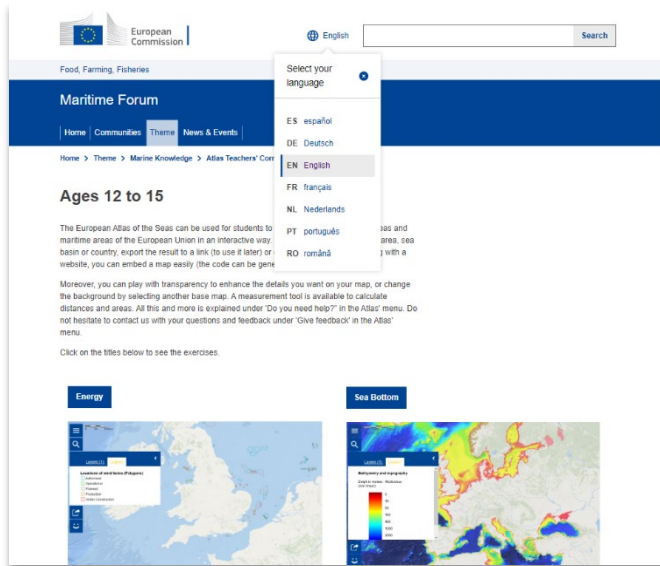
Achievements since last meeting (27 March 2023)



Maritime Forum

- *Migrated Teacher's Corner and Atlas Communities in the new Maritime Forum in EWPP*
 - **Rebuild the page structure to allow easy navigation between pages**

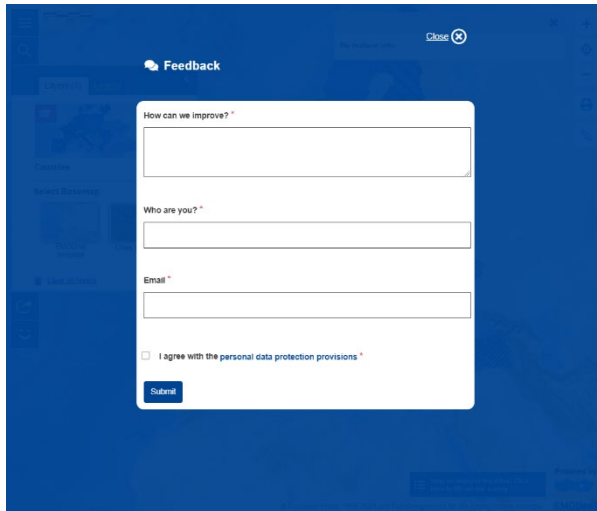
Achievements since last meeting (27 March 2023)



Maritime Forum

- *Migrated Teacher's Corner and Atlas Communities in the new Maritime Forum in EWPP*
 - **Rebuild the page structure to allow easy navigation between pages**
 - **Grouped translated pages in the local translation feature of EWPP**

Achievements since last meeting (27 March 2023)

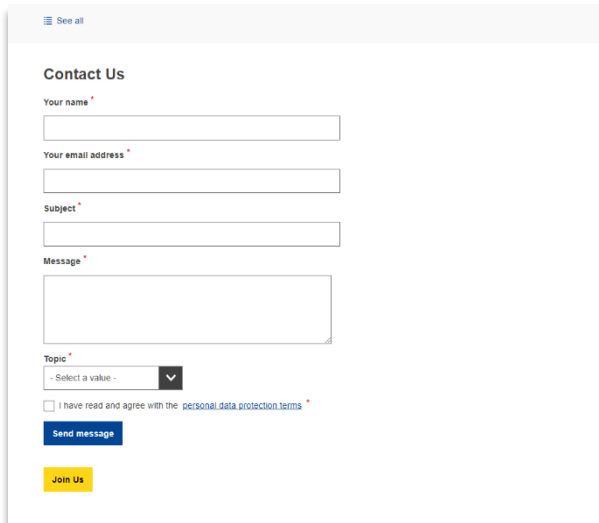


The screenshot shows a 'Feedback' form with the following fields and elements:

- Close button (X icon)
- Feedback title
- Form title: "How can we improve?"
- Text input field
- Form title: "Who are you?"
- Text input field
- Form title: "Email"
- Text input field
- Checkbox: "I agree with the personal data protection provisions"
- Submit button

Maritime Forum

- *Migrated Teacher's Corner and Atlas Communities in the new Maritime Forum in EWPP*
 - **Rebuild the page structure to allow easy navigation between pages**
 - **Grouped translated pages in the local translation feature of EWPP**
 - **Atlas Feedback replaced by the new Maritime Forum form**



The screenshot shows a 'Contact Us' form with the following fields and elements:

- See all button
- Contact Us title
- Form title: "Your name"
- Text input field
- Form title: "Your email address"
- Text input field
- Form title: "Subject"
- Text input field
- Form title: "Message"
- Text area
- Form title: "Topic"
- Dropdown menu: "Select a value"
- Checkbox: "I have read and agree with the personal data protection terms"
- Send message button
- Join Us button

Achievements since last meeting (27 March 2023)

Welcome to the Teachers' Corner of the European Atlas of the Seas

Looking for a user-friendly interactive map-based educational tool on the ocean? Dive into the European Atlas of the Seas and its Teachers' Corner!

Next to presentations of the Atlas, posters and a few nice quizzes and games, you will find ready to use map-based exercises for different age groups. Feel free to use them in your classroom!



Join Us



To understand what we can do better to protect the health of the ocean, it is essential that we learn how the ocean influences us and how we influence the ocean.

The European Atlas of the Seas is a publicly accessible web-based tool, providing interactive and diversified information in a comprehensive way to a broad public. It is composed of a collection of maps with reliable data on natural and socio-economic features in the coastal regions of Europe. The data come primarily from the European Commission and its agencies (i.e. Eurostat, European Environment Agency, ...) and from the European Marine Observation and Data Network (EMODnet).

The European Atlas of the Seas offers an ocean of information in a user-friendly way about topics such as nature, tourism, security, energy, litter, coastal erosion, vessel density, passenger transport, sea bottom, sea level rise, fish consumption, and much, much more! It includes more than 275 [map layers](#).

Use the Atlas to explore and compose your own maps! Select different map layers, zoom into your area of interest (e.g., a sea basin, a country, ...), measure distances and areas and export your customised map or print it for later use. Use the [My Maps tool](#) to create your own working space in the Atlas!

[Dive in the Atlas](#) and start exploring the possibilities to enhance your lessons in an interactive way!



The Teachers' Corner aims to provide a platform where teachers can find exercises by age group on a wide range of marine topics. By using the Atlas, students can develop a multitude of competencies such as:

- reading, understanding, and interacting with a map,
- reading and understanding graphic information,
- creating a map using different map layers,
- measuring distances on maps,
- searching for information online and summarizing findings,
- working in different languages.



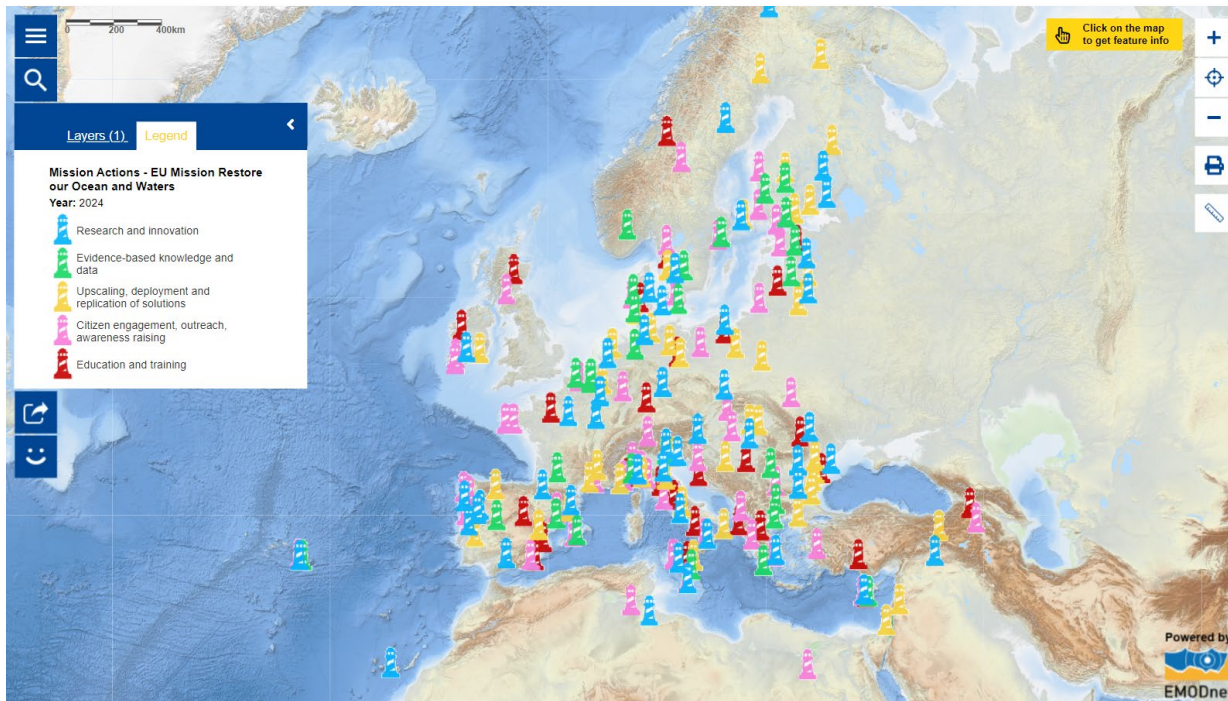
The Atlas can be used in the classroom to expand knowledge of ocean science, geography, earth science, ecology, conservation, climate change, economics, and sustainable development. It can also support cross-curricular activities and school projects. Click on the age groups to see the exercises.

Maritime Forum

- *Migrated Teacher's Corner and Atlas Communities in the new Maritime Forum in EWPP*
 - **Rebuild the page structure to allow easy navigation between pages**
 - **Grouped translated pages in the local translation feature of EWPP**
 - **Atlas Feedback replaced by the new Maritime Forum form**
 - **Revamped the appearance of the pages**

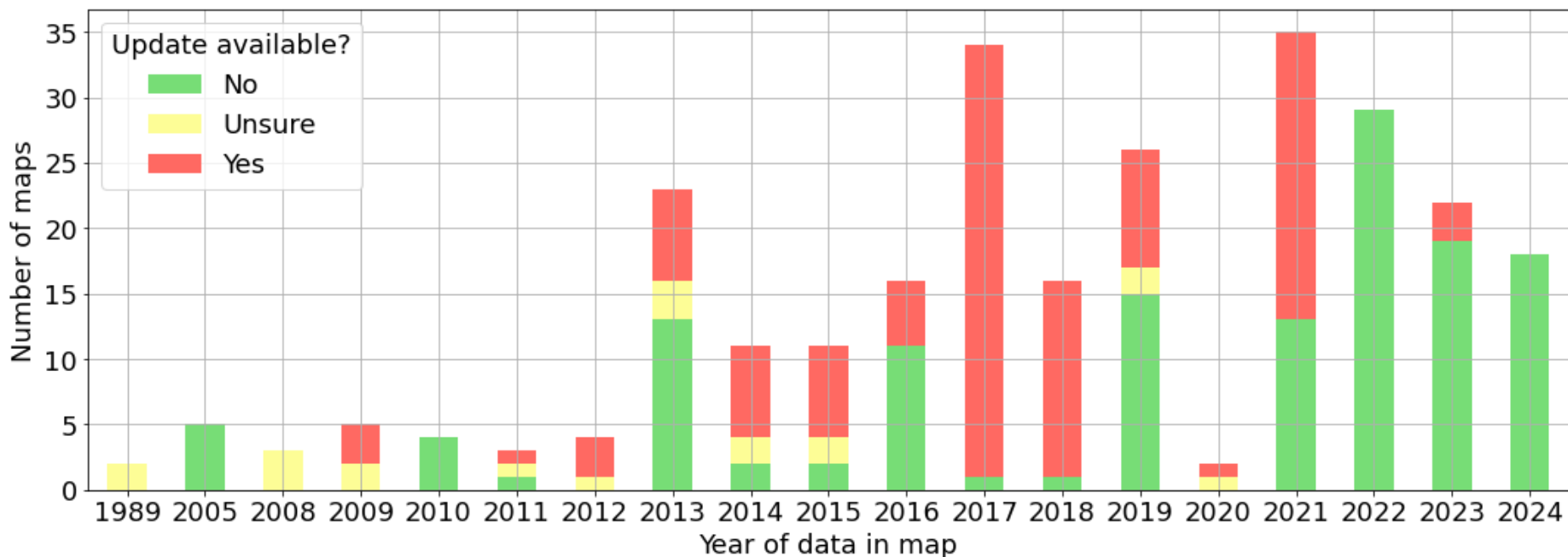
Forward look: Continuous map updates

- *DG MARE:*
 - Monthly update the Mission Actions – EU Mission Restore our Ocean and Waters
- *EU4Ocean*
 - Continuously update EU4Ocean Coalition for Ocean Literacy – EU4Ocean Platform members
 - Continuously update Network of European Blue Schools
 - Continuously update Young Ocean Advocates



Forward look: Content review & update

- *Comprehensive layer review (ongoing)*
- *Prioritisation of layer updates based on:*
 - **Availability of updates (e.g. EUROSTAT data)**
 - **Year of current data in the map**
 - **Web traffic to the map**
- *Add year of data in a visible location (ongoing)*
- *Some maps cannot be updated as datasets are no longer maintained:*
 - **Consider removing layers and adding new maps on similar topic**



Forward look: data availability

- *Make the data provider logo link to a page from where the data can be downloaded:*
 - **EUROSTAT layers > All links allow to download data**
 - **EMODnet layers > Will be linked to the relevant entry in the now centralized EMODnet metadata catalogue (mapping ongoing)**
 - **Other services -> Will link to the relevant page from where the data can be downloaded, if available**

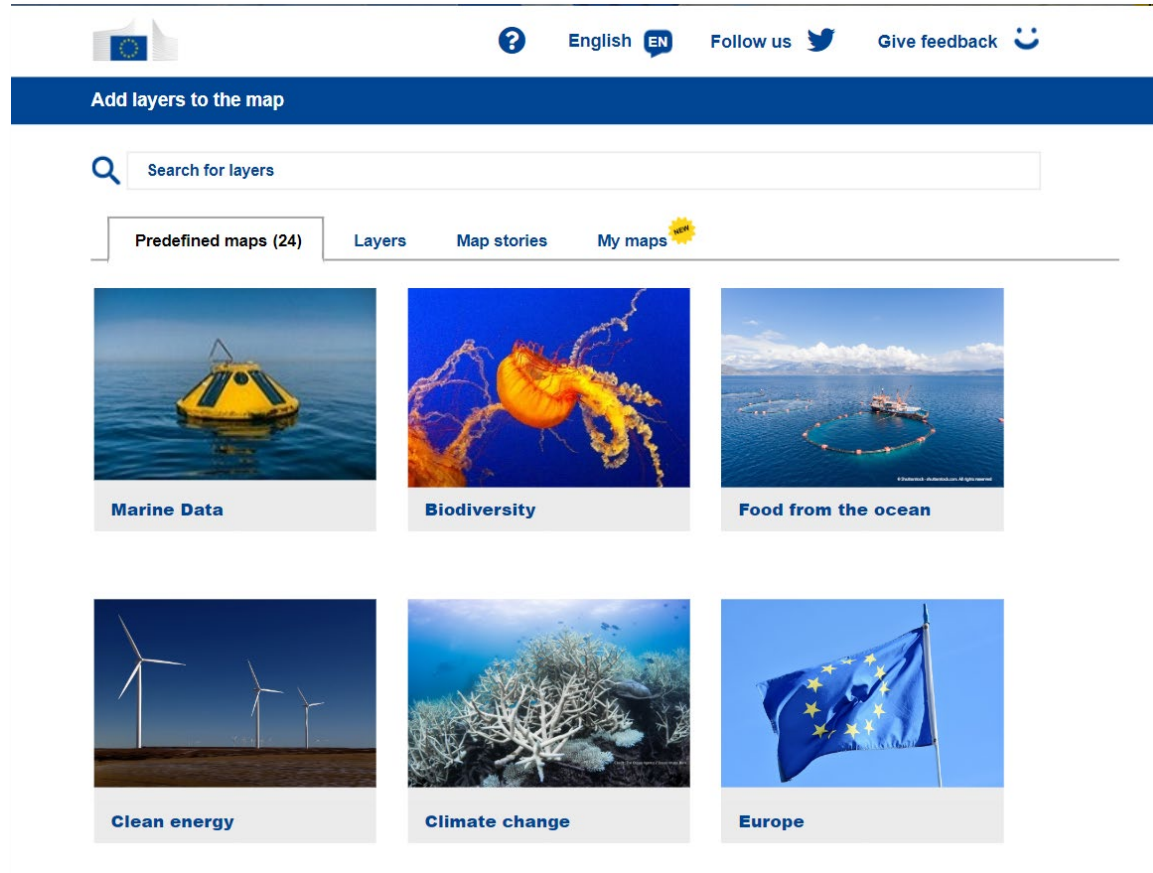
The image shows a screenshot of a web interface. On the left, a map of Europe is displayed with a data layer for 'Fishing fleet by gross tonnage'. A tooltip for the 'eurostat' logo is visible, containing the text: 'While fish are an important natural resource, populations are also... the European fishing industry is sustainable and fair, the EU Common Fisheries Policy sets a number of rules for managing European fishing fleets and catches. Each country's fishing fleet is monitored in a national register and a capacity ceiling of total vessel engine power and total vessel weight is established. This map shows the total weight of vessels (in gross tonnage) in the fishing fleets of EU and EEA countries. (1990-2018)'. On the right, a sidebar shows the 'eurostat' website navigation and dataset details for 'Fishing fleet by age, length and gross tonnage'. The sidebar includes a search bar, a navigation menu with 'Home', 'Data', 'News', 'Publications', 'About us', 'Contact us', and 'Help', and a 'DATASET DETAILS' section. The dataset details section includes the title 'Fishing fleet by age, length and gross tonnage', links for 'Open the dataset', 'Download the data', 'Show in tree', and 'Metadata', and an 'Additional information' section with the following details: Code: fish_fleet_alt, Last update: 14/03/22, Oldest data: 1990, Most recent data: 2021, and Number of values: 478082. The sidebar also includes a 'Themes: Agriculture, forestry and fisheries' section.

Forward look: proposed new map layers

- *DG MARE:*
 - New map on Fisheries Local Actions Group (will replace older map on this)
 - New maps on Blue Economy Observatory (will replace Blue Economy Dashboard maps)
- *Copernicus Marine Service:*
 - Add map on Ocean Acidification Trend
- *EEA:*
 - Investigate what map services are available in the geospatial database under EEA topics "Climate Adaptation" and "Seas and coasts"
- *Horizon 2020 iAtlantic Project:*
 - Maps on the prioritization of deep sea areas for ecosystem conservation
- *EMODnet Geology:*
 - Add map on Marine minerals
 - Update Coastal types
- *EMODnet Physics*
 - Add map on Ocean Acidification observations
 - Citizen Science Map in collaboration with Erasmus Maris
- *EMODnet Human Activities:*
 - Add maps of Water treatment plants
 - Add map of Nationally Designated Areas
- *EMODnet Biology:*
 - Add maps on species observation maps at different levels of the food chain
 - Add map on IUCN red list Near Threatened Species map

Forward look: predefined maps

- *Translate and add new predefined maps in line with the pillars of the EU Green Deal*
- *Rationalize the map layers shown in existing predefined maps*



The screenshot displays a web interface for adding map layers. At the top, there is a navigation bar with the European Union flag, a help icon, the text 'English EN', 'Follow us' with a Twitter icon, and 'Give feedback' with a smiley icon. Below this is a dark blue header with the text 'Add layers to the map'. A search bar with a magnifying glass icon and the text 'Search for layers' is positioned below the header. A horizontal menu contains four tabs: 'Predefined maps (24)', 'Layers', 'Map stories', and 'My maps' (which is highlighted with a yellow sun icon). The main content area features six predefined map categories, each with a representative image and a label: 'Marine Data' (a yellow and black buoy), 'Biodiversity' (a colorful jellyfish), 'Food from the ocean' (a fishing boat in a circular net), 'Clean energy' (wind turbines), 'Climate change' (coral reef), and 'Europe' (the European Union flag).

Forward look: new map stories

- *Translate and include new map stories (replacing outdated ones)*

The screenshot displays the user interface for the 'Map stories' section of a web application. At the top, there is a navigation bar with the European Union flag, a help icon, the language 'English EN', social media links for 'Follow us' and 'Give feedback', and a smiley face icon. Below this is a dark blue header with the text 'Add layers to the map'. A search bar with a magnifying glass icon and the text 'Search for layers' is positioned below the header. The main content area features four tabs: 'Predefined maps (24)', 'Layers', 'Map stories' (which is selected), and 'My maps' (marked with a yellow 'NEW' star). Under the 'Map stories' tab, six map story thumbnails are displayed in a 2x3 grid. Each thumbnail shows a map of Europe with a specific data layer overlaid, and a title below it: 'Chlorophyll Concentration', 'Beach Litter - Cigarettes', 'Quotas by species', 'Underwater noise indicator', 'scriptors - Biological zones', and 'Marine bird observations'. The thumbnails are interactive, showing a search bar and a legend on the left side of the map.

Recommendations?



Thank you!

