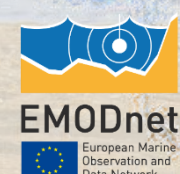


The European Atlas of the Seas

www.european-atlas-of-the-seas.eu

Ocean Literacy – Baltic Sea – 27/08/2021
Teachers' Training Workshop

0 300 600km



Where is coastal erosion taking place? Does it affect us?

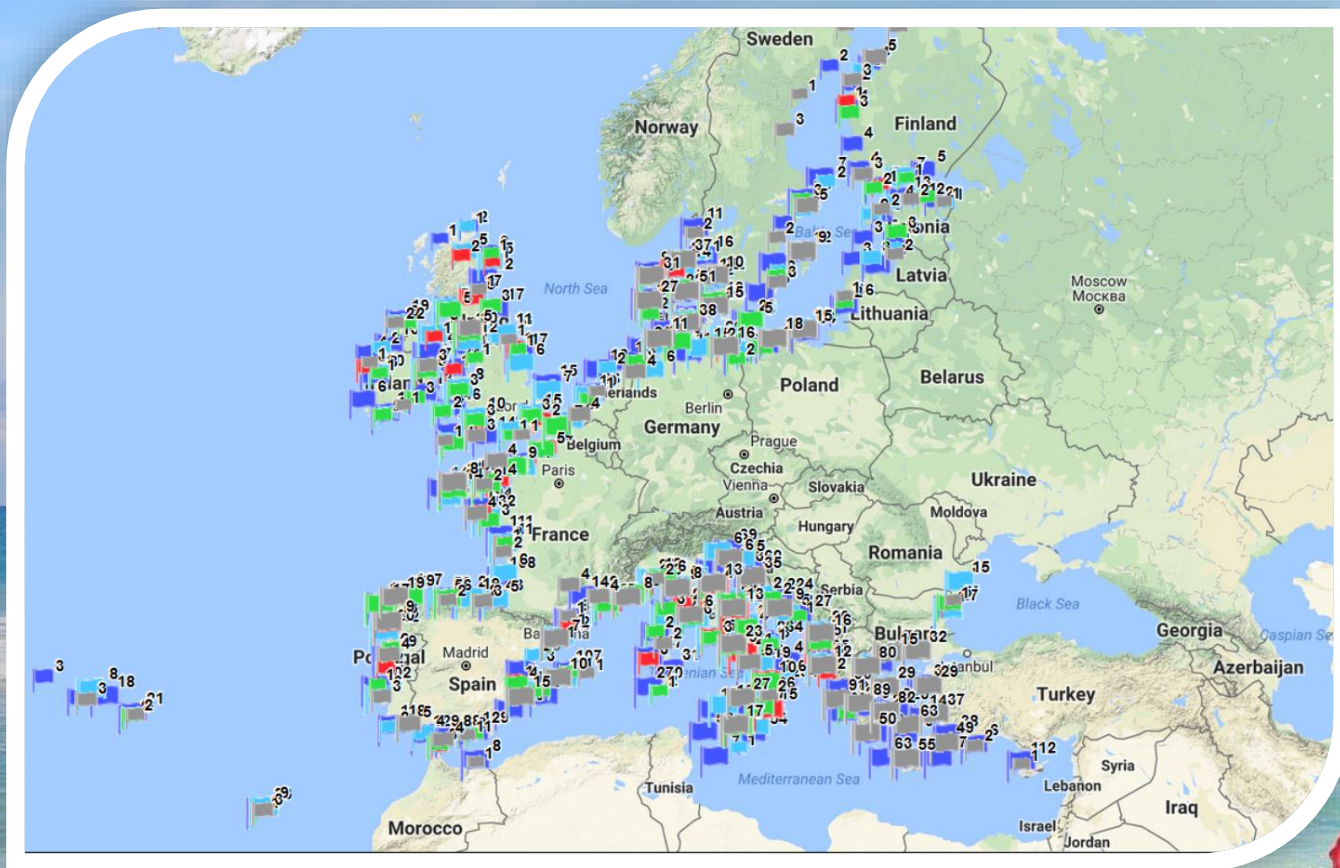
Where can I visit an aquarium?

What is the closest river to where I live? How far is it? How is it linked to the sea?

What type of litter can be found in the sea? What can we do about it?

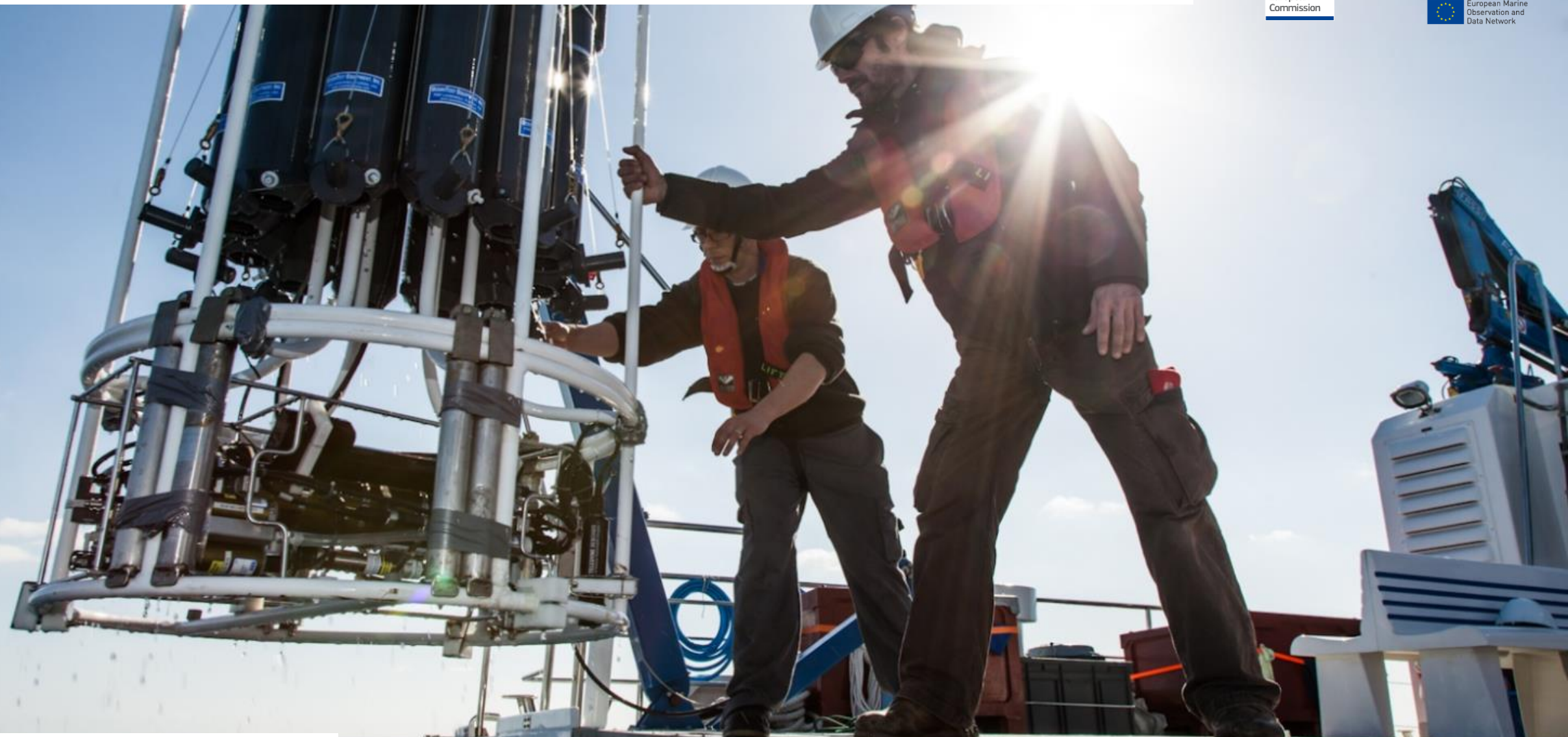
How many tons of fishery products are caught by year in my country?

How do we know what we know about the ocean? What kind of instruments are used to collect information at sea? Where are they deployed?



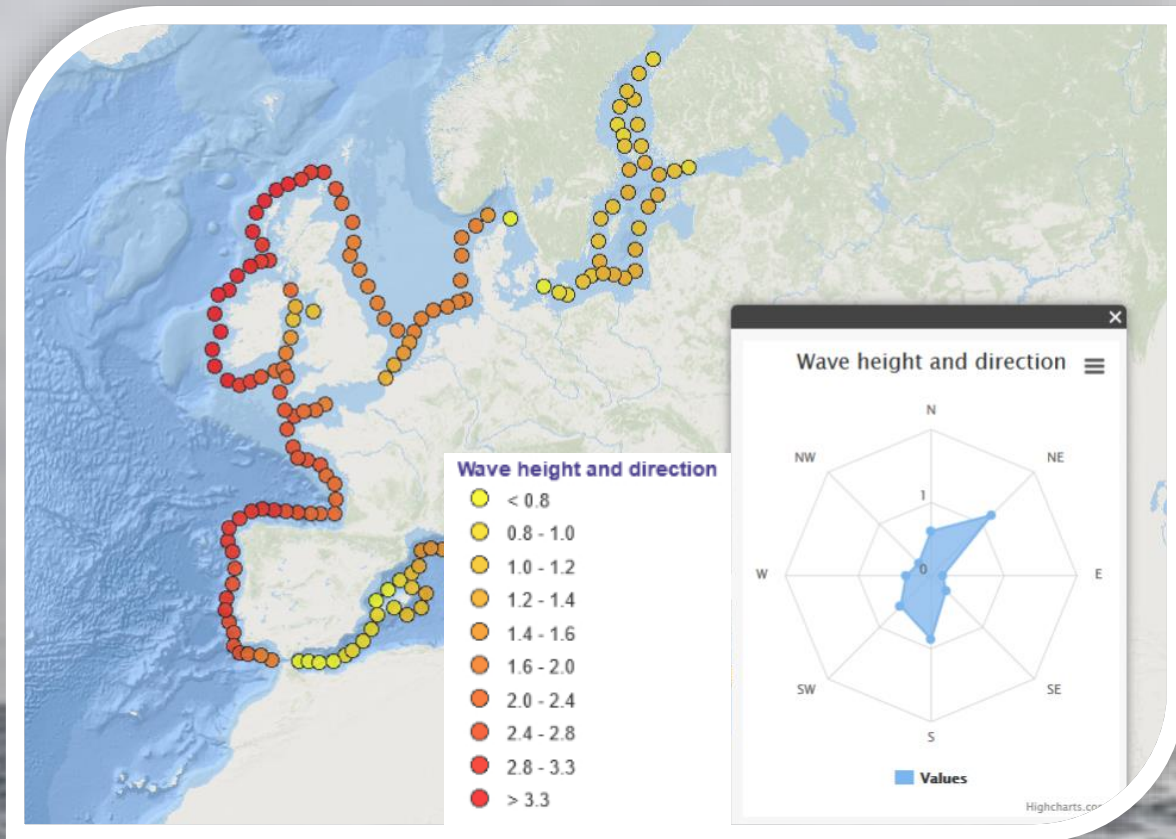
How good is the water quality at this beach?

European Marine Observation and Data Network



www.emodnet.eu

© SOCIB



EMODnet
European Marine
Observation and
Data Network

What is the European Atlas of the Seas?

- A digital **interactive learning tool**
- Stunning **marine maps** and interactive **oceanic information** covering a wide range of popular **marine topics**
- **285 interactive map** layers and possibility to create **custom maps**
- All information and maps are **easily accessible**: no need to create an account
- Maps are available in the **24 official languages of the European Union**
- Maps can be quickly **printed, shared and embedded** in presentations



www.european-atlas-of-the-seas.eu

What topics are covered in the European Atlas of the Seas?



Tourism



Nature



Sea life



Transport



Sea bottom



Energy



Security



Employment



Fishing stocks and quota



Aquaculture

Behind the Atlas...

- The European Atlas of the Seas is an initiative of the Directorate General for Maritime Affairs and Fisheries (DG MARE) of the European Commission
- It is managed by the European Marine Observation and Data Network (EMODnet) Secretariat, which is financed by the European Union, since 2017. EMODnet is a network of organisations working together to observe the sea and to make the marine data collected freely available and interoperable.



Where does the data come from?

- European Commission, Directorate General for Maritime Affairs and Fisheries (DG MARE)
- Other services of the European Commission
- The European Marine Observation and Data Network (EMODnet)
- The European Environmental Agency
- Eurostat
- Copernicus Marine
- Joint Research Centre
- ...



How does it work?

The screenshot shows the user interface of the European Atlas of the Seas. The top navigation bar includes the European Commission logo, a help icon, the language 'English EN', social media links for 'Follow us' and 'Give feedback', and a close button. The main content area features a breadcrumb trail: 'European Commission > Maritime Affairs > European Atlas of the Seas'. Below this is a large blue header with an information icon and the title 'European Atlas of the Seas', followed by a descriptive paragraph: 'Explore, collate and create your own sea map. Learn more about Europe's seas and coasts, their environment, related human activities and European policies.' A menu of navigation buttons is displayed in two columns. The buttons are: 'Do you need help?', 'Advanced features', 'Atlas overview', 'New Atlas functions' (with a 'V6' badge), 'Teachers corner', and 'Legal notice'. Red dashed circles highlight the hamburger menu icon in the top left, the language and social media links in the top right, the 'Atlas overview' button in the bottom left, and the 'Teachers corner' button in the bottom right.

European Commission > Maritime Affairs > European Atlas of the Seas

European Atlas of the Seas

Explore, collate and create your own sea map. Learn more about Europe's seas and coasts, their environment, related human activities and European policies.

- Do you need help?
- Advanced features
- Atlas overview
- New Atlas functions ^{V6}
- Teachers corner
- Legal notice

Powered by
Esri, GEBCO, DeLorme, NaturalVue
EMODnet

How does it work?

български
čeština
dansk
Deutsch
eesti
ελληνικά
English ✓
español
français
Gaeilge
hrvatski
italiano

latviešu
lietuvių
magyar
Malti
Nederlands
polski
português
română
slovenčina
slovenščina
suomi
svenska

How does it work?

The screenshot shows a web application interface for adding layers to a map. The interface is divided into several sections:

- Top Bar:** Contains a logo, a help icon, language selection (English EN), social media links (Follow us), and a feedback icon. A close button (X) is circled in red.
- Header:** A blue bar with the text "Add layers to the map".
- Search:** A search bar with the placeholder text "Search for layers".
- Navigation:** Three tabs: "Predefined maps (19)", "Layers", and "Map stories".
- Algae production:** A section with two checked checkboxes, both labeled "Microalgae production facilities", each with an information icon (i). This section is circled in red.
- Aquaculture:** A section with two unchecked checkboxes: "Aquaculture production" and "Aquaculture production by species", each with an information icon (i).

Additional elements include a search icon in the left sidebar (circled in red), a "Clear all" button, and a "Powered by EMODnet" logo in the bottom right corner.

How does it work?

Click on the map to get feature info

Layers (2) [Legend](#)

Microalgae production facilities

Macroalgae production facilities

[Clear all layers](#)

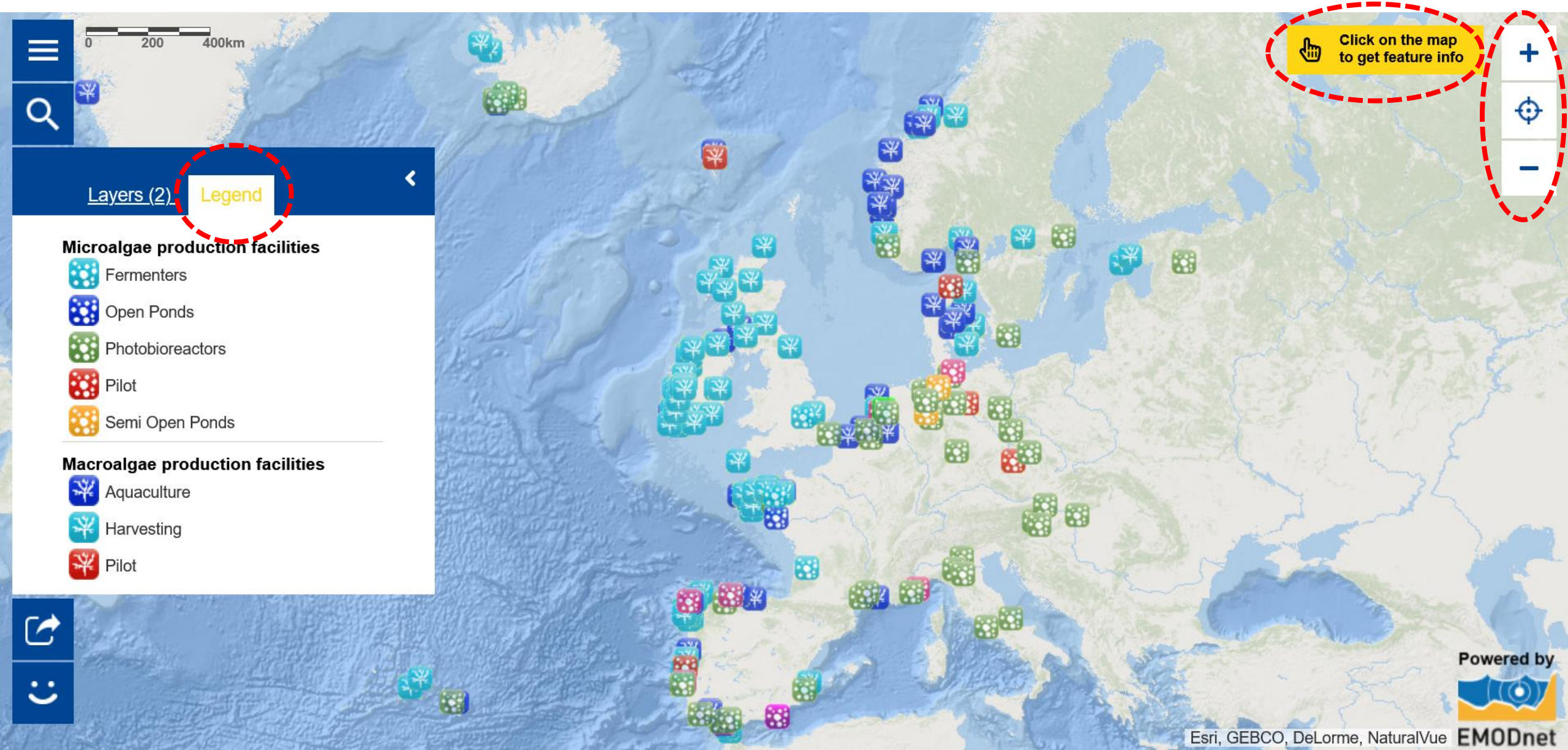
EMODnet

This map shows the microalgae-producing facilities by production methods (photobioreactors, open ponds, fermenters, photobioreactors and open ponds, photobioreactors and fermenters). Data have been collected in the following countries: Belgium, Denmark, Estonia, France, Germany, Ireland, Italy, Norway, Portugal, Spain, Sweden, and UK. Microalgae are microscopic plants, typically found in freshwater and marine systems, living in both the water column and sediment. Harvesting, cultivating, or processing algae to create high-value products can make an invaluable contribution to a cleaner and healthier environment. Therefore, the production of algae is an important part of the “blue bioeconomy”.

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How does it work?




How does it work?

The screenshot displays a web application interface with a top navigation bar and a main content area. The top bar includes a logo, a help icon, language selection (English EN), social media links (Follow us), and a feedback link (Give feedback). The main content area is titled "Advanced features" and contains two toggle switches, both of which are turned on and circled in red. The first toggle is for the "Print tool", which allows printing the current map. The second toggle is for the "Measures tool", used for determining areas, distances, and coordinates. The interface also features a left sidebar with navigation icons and a right sidebar with map controls, both of which are partially visible and circled in red.

Advanced features

 **Print tool**
Printing service to allow the current map to print

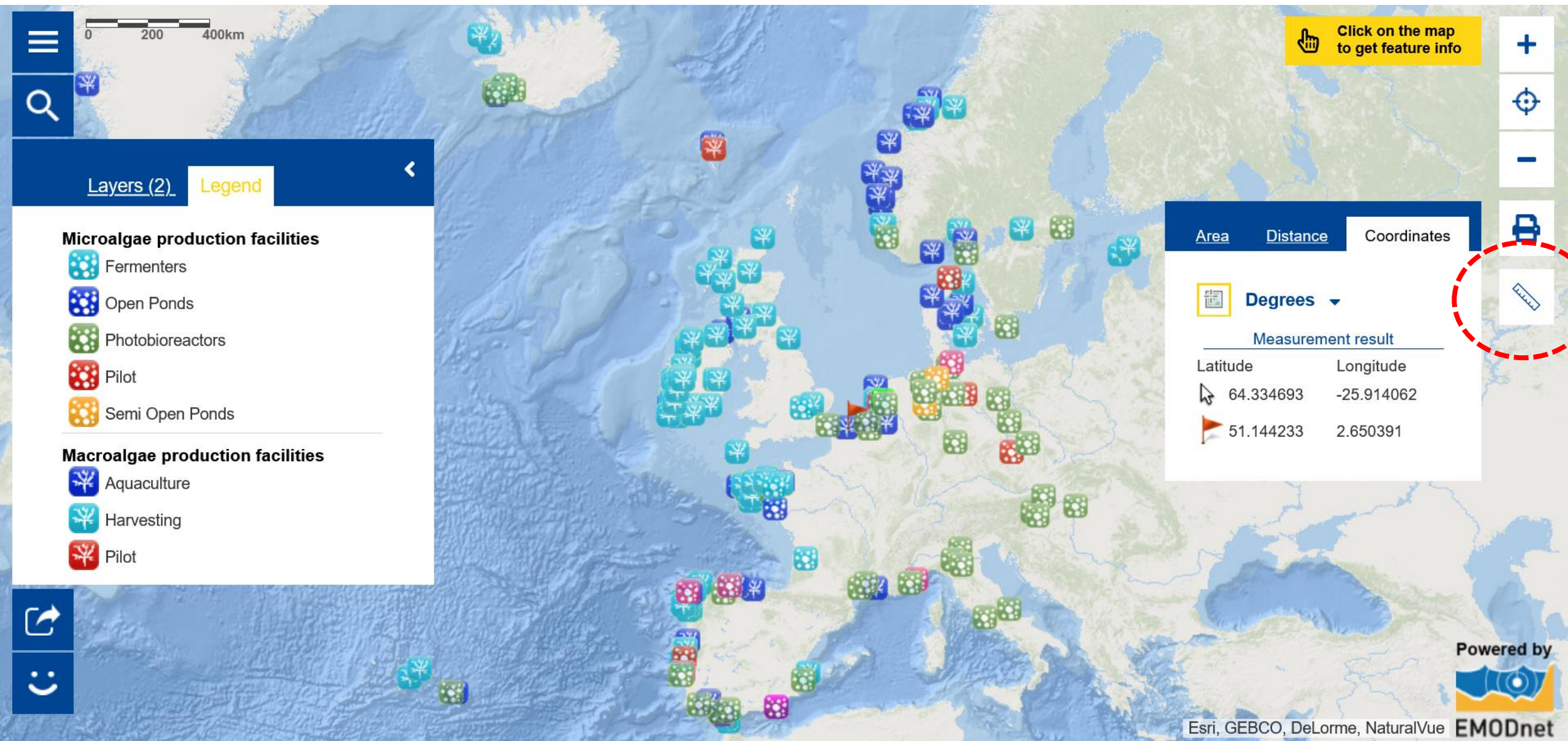
 **Measures tool**
Tool to determine areas, distances and coordinates

Powered by
EMODnet

How does it work?

The screenshot shows a web application interface for printing a map. 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' (Twitter), and 'Give feedback' (smiley face). Below this is a blue header with the word 'Print'. The main content area is divided into two columns. The left column features a map preview titled 'EUROPEAN ATLAS OF THE SEAS' showing a map of Europe with various colored icons. Below the map, it displays the date 'May 27, 2021', the scale '1:147.914.381', and a scale bar from 0 to 4000km. A 'Next >' button is located at the bottom of this column. The right column contains print settings: 'Paper size' is set to 'A3 Landscape'; 'Format' is set to 'PDF' (with 'JPG' as an alternative); 'Include legend' is checked; 'Layers for print' has a dropdown arrow; 'Map title' is 'EUROPEAN ATLAS OF THE SEAS'; and 'Scale' is '1 : 147.914.381'. On the far left, a vertical toolbar contains icons for home, search, layers, and print (circled in red). On the far right, another vertical toolbar contains zoom in (+), home, zoom out (-), print (circled in red), and a scale bar. The bottom right corner features the text 'Powered by' above the 'EMODnet' logo, with 'Esri, GEBCO, DeLorme, NaturalVue' listed below it.

How does it work?





A screenshot of the web interface. At the top, there is a navigation bar with the European Commission logo, a question mark icon in a red dashed circle, "English EN", "Follow us" with social media icons, and "Give feedback" with a smiley face icon. Below this is a breadcrumb trail: "European Commission > Maritime Affairs > European Atlas of the Seas". The main heading is "European Atlas of the Seas" with an information icon. Below the heading is a descriptive paragraph: "Explore, collate and create your own sea map. Learn more about Europe's seas and coasts, their environment, related human activities and European policies." There are two columns of buttons: the left column contains "Do you need help?", "Advanced features", and "Atlas overview"; the right column contains "New Atlas functions" (with a yellow star icon), "Teachers corner", and "Legal notice". At the bottom right, it says "Powered by" with the EMODnet logo. At the bottom center, there is a copyright notice: "© European Union, 1995-2021 and EuroGeographics for the Administrative boundaries EMODnet".



Developing students' competences

- Read and understand a **map**
- Learn what the components of a map are: **title, legend, coordinates...**
- Read and understand **graphics**
- Create a map using **different layers**
- Measure **distances** on map
- Learn to **search for information** online and **summarize findings** into a presentation
- Work in different **languages**
- ...

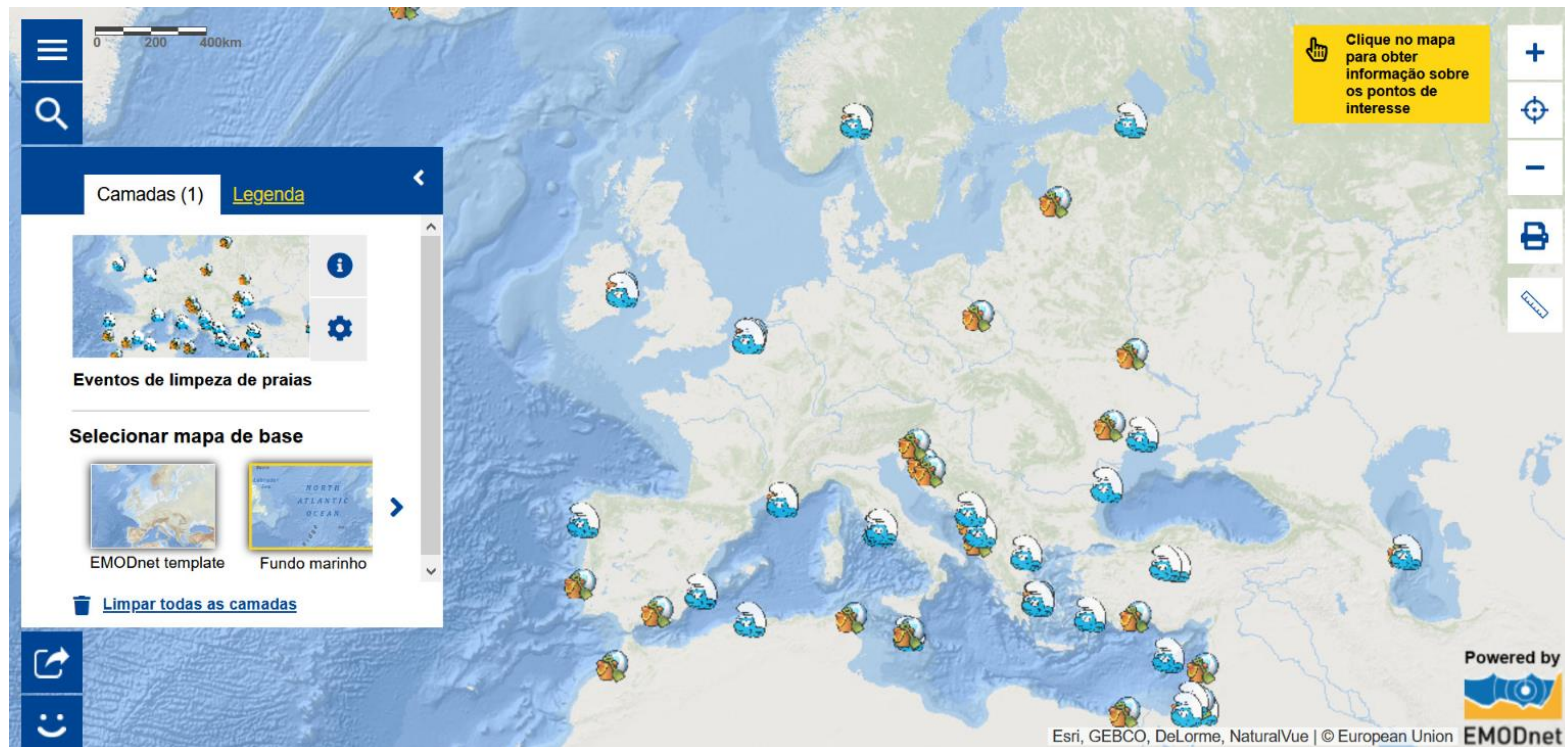


Expanding students' knowledge

- Geography
- STEM - Science, Technology, Engineering, and Mathematics
- Nature conservation
- Environmental issues
- Economy
- Sustainable development
- Civic education
- Languages
- ...

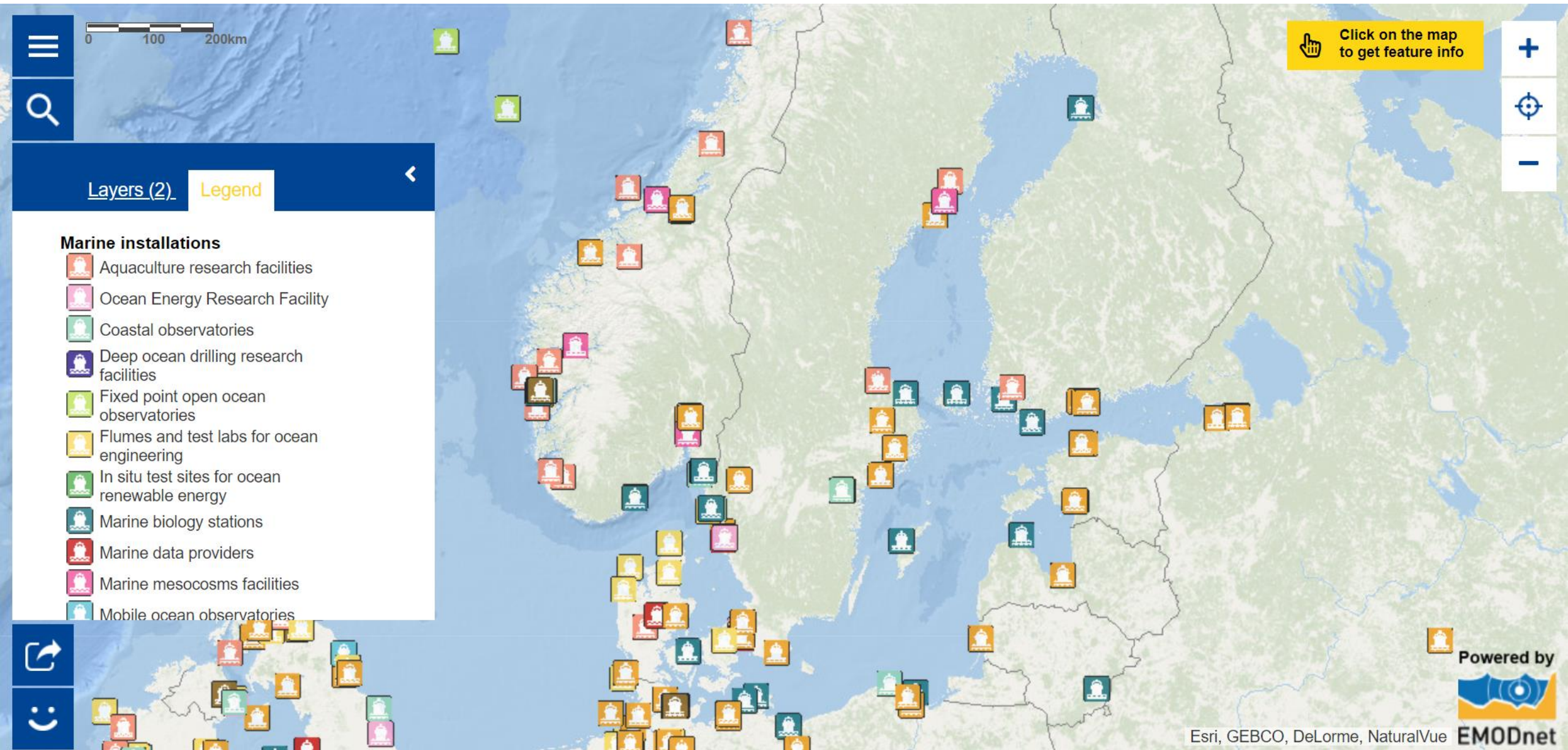


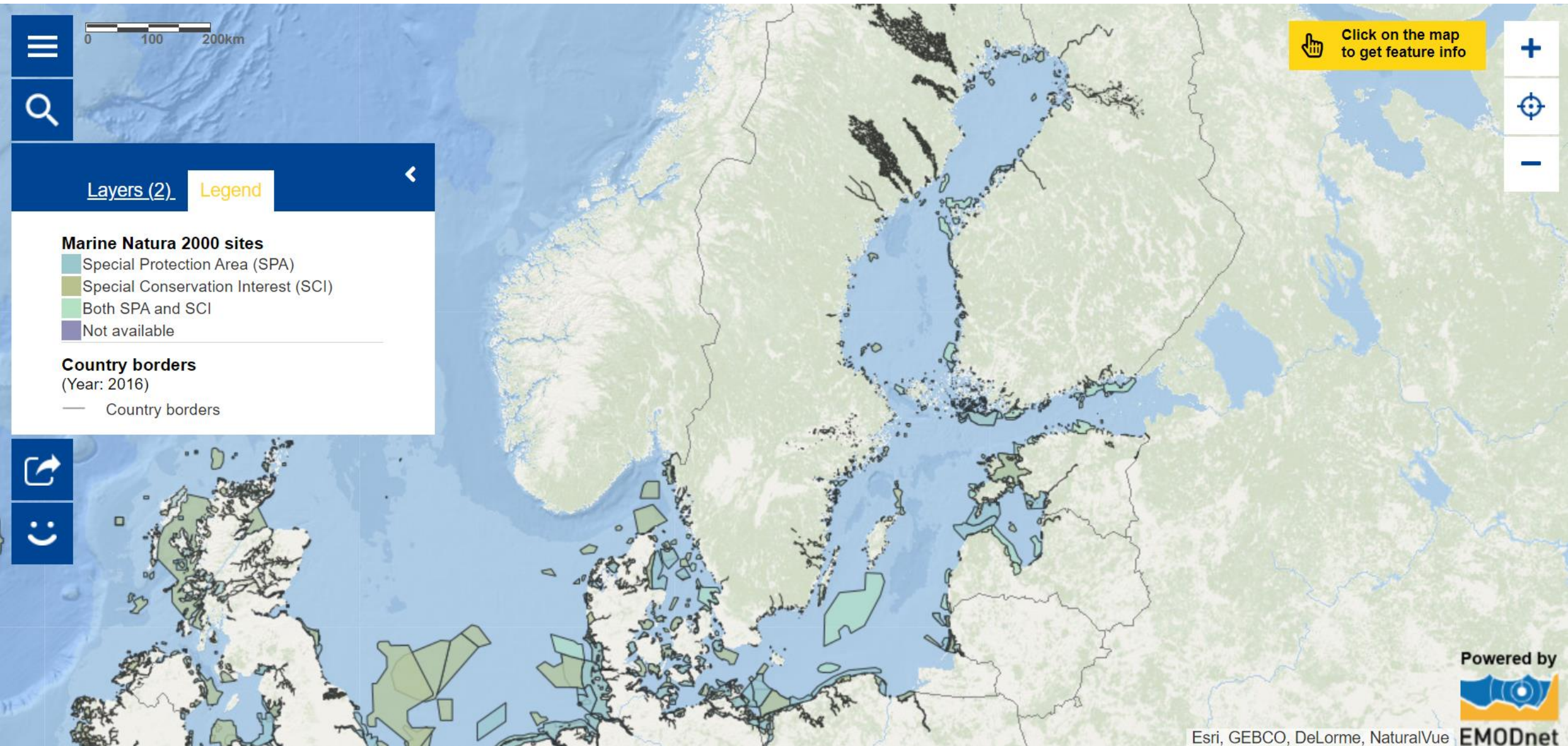
Supporting projects at school



- Sorting waste at school
- Reducing plastics at school
- Sustainable food during lunchtime
- ...







Layers (2)

Legend

Marine Natura 2000 sites

- Special Protection Area (SPA)
- Special Conservation Interest (SCI)
- Both SPA and SCI
- Not available

Country borders

(Year: 2016)

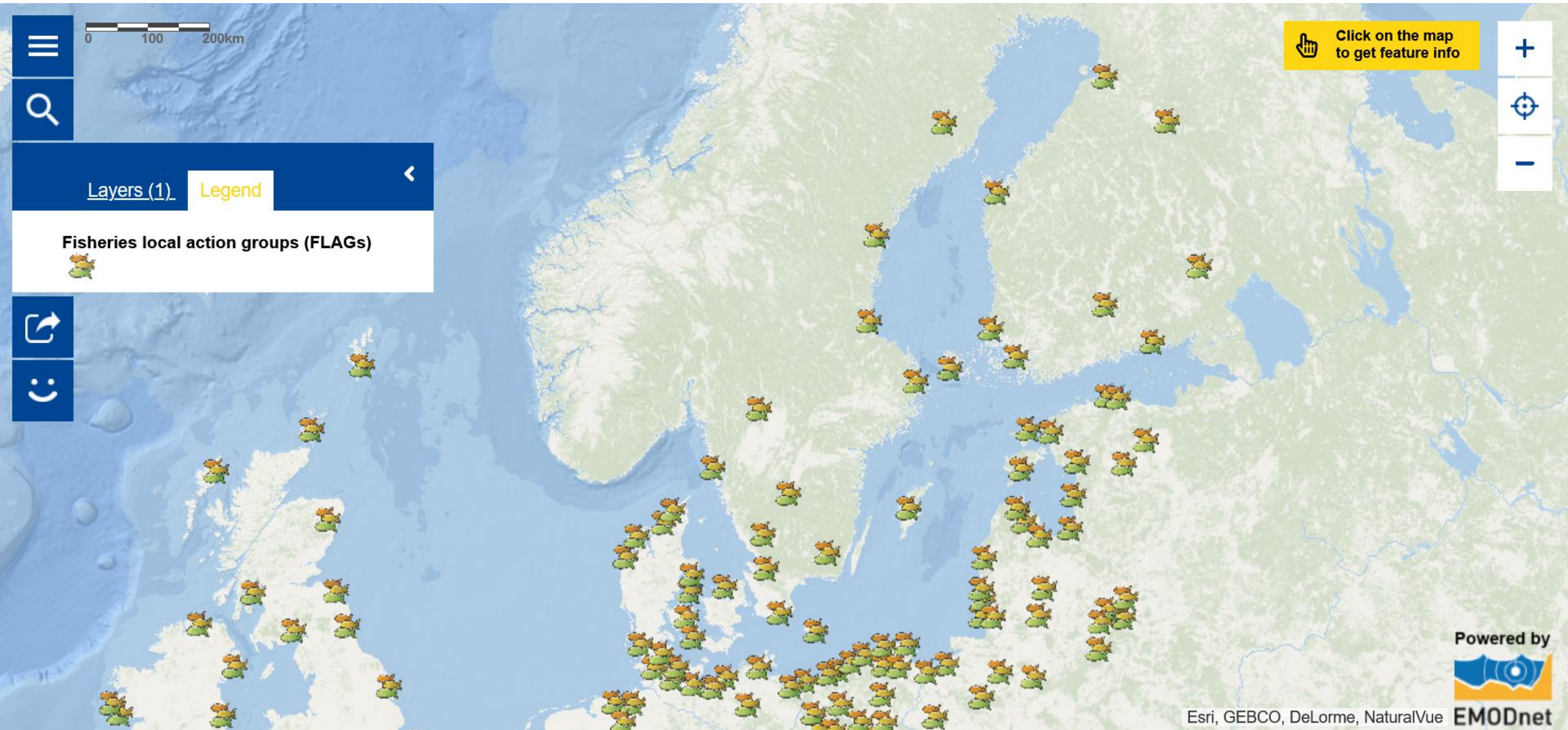
- Country borders

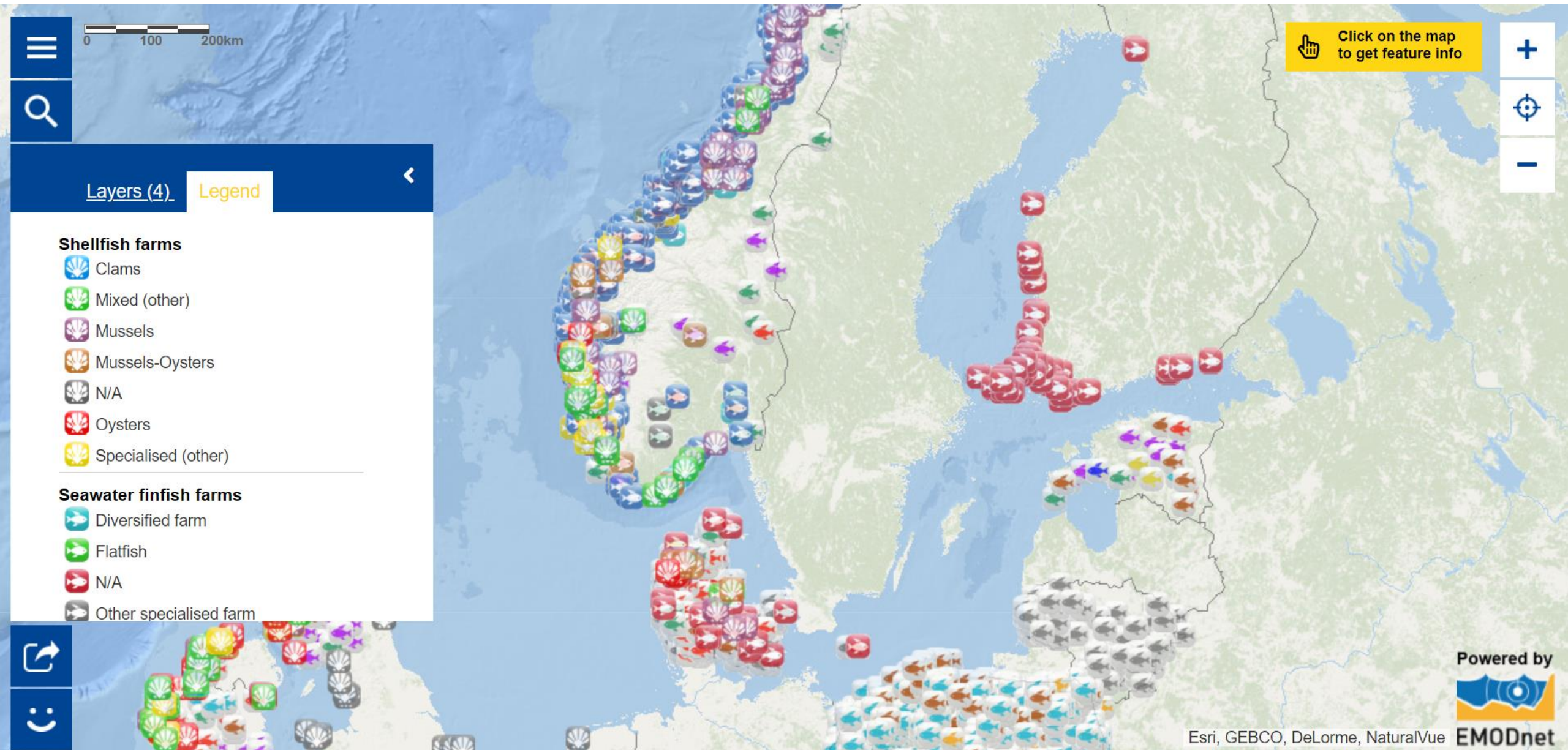
Click on the map to get feature info

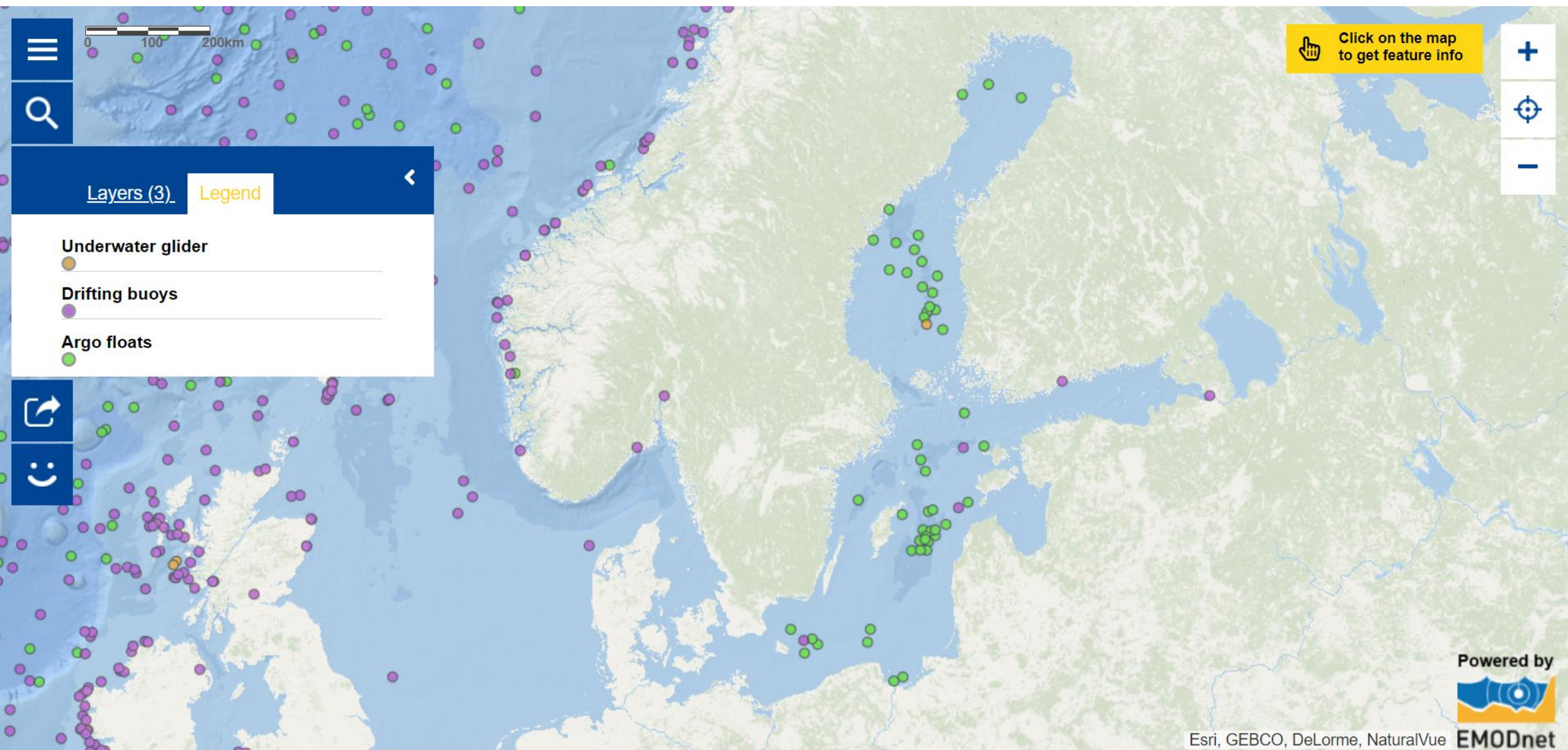
Powered by



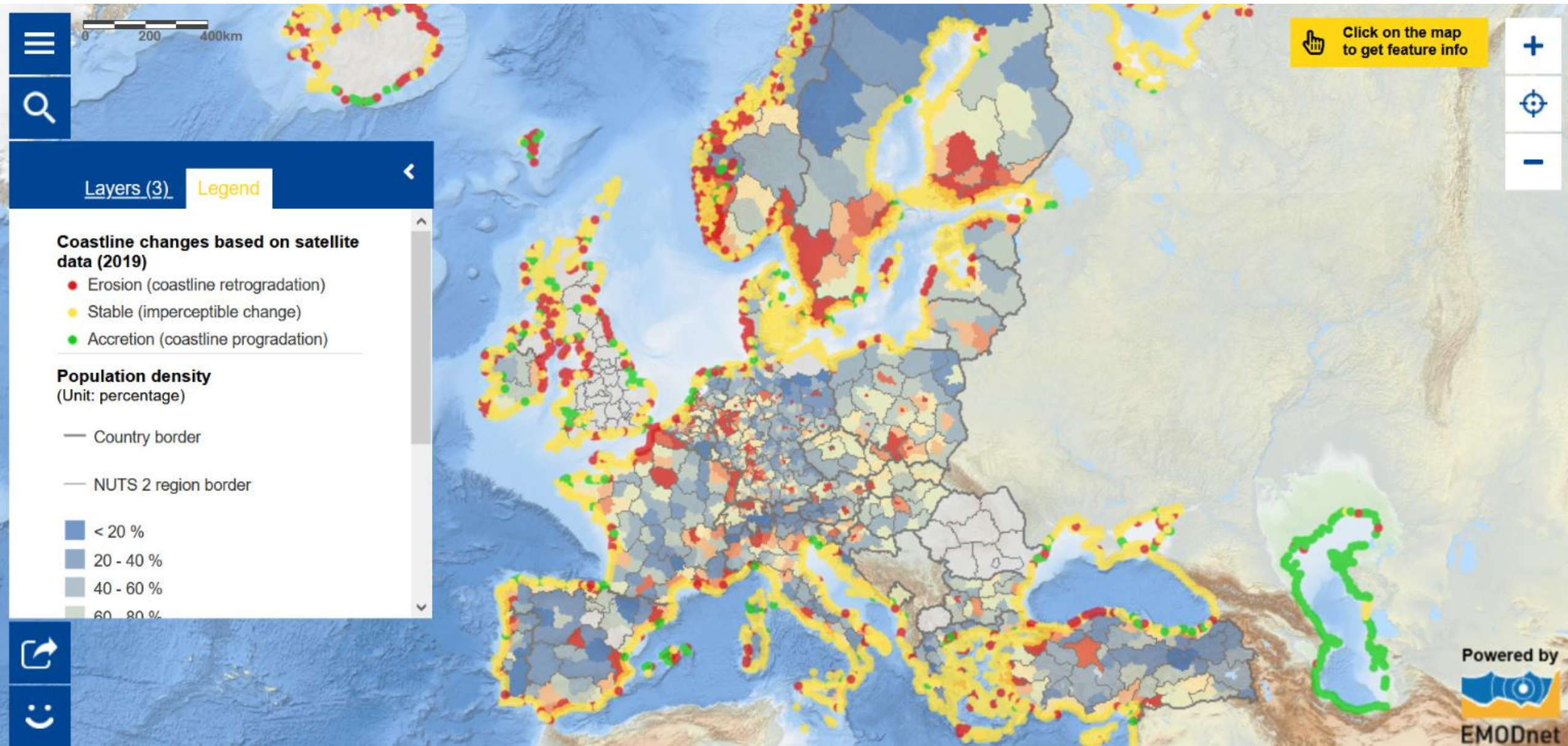
Esri, GEBCO, DeLorme, NaturalVue



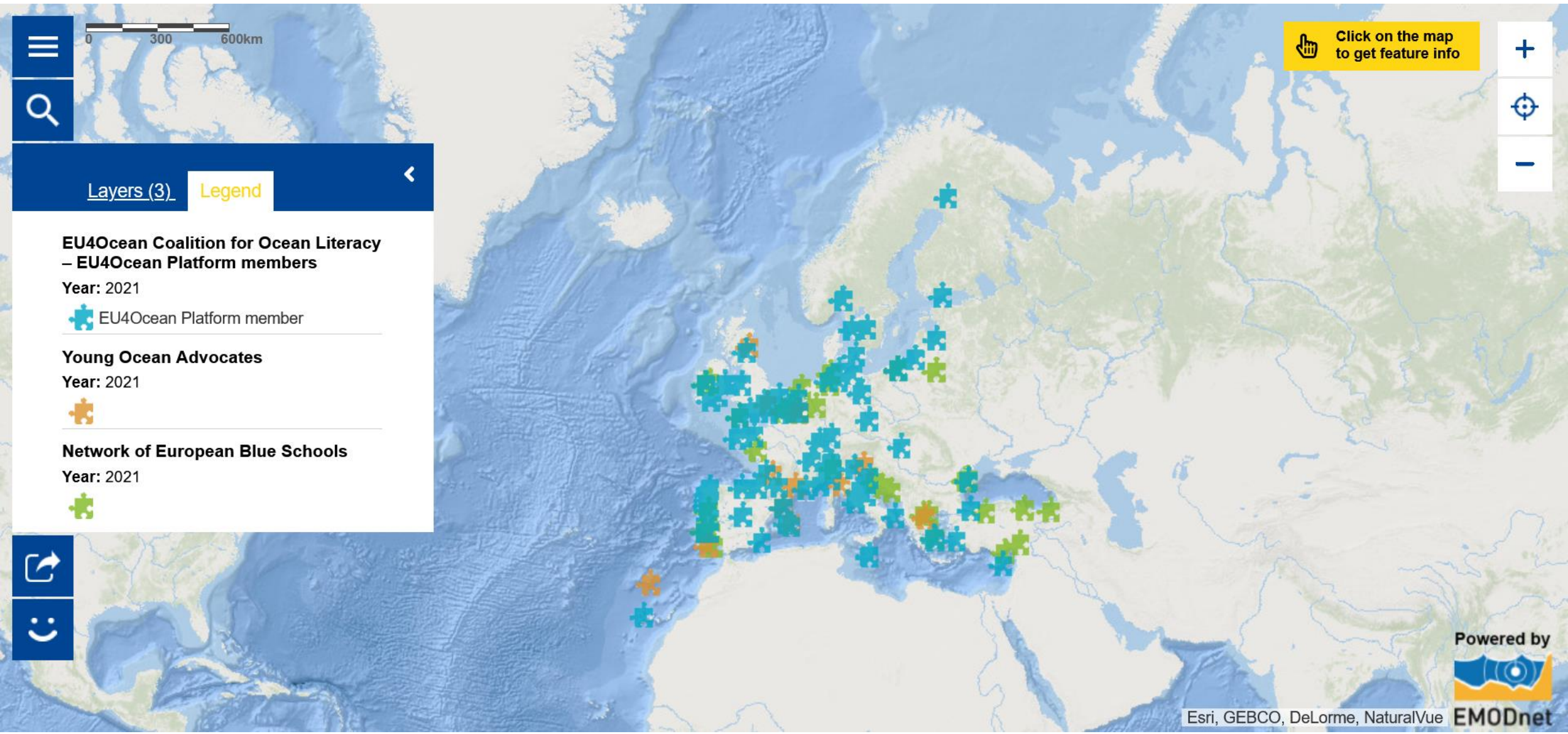




What can we learn from combining layers?



Ocean Literacy – EU4Ocean Coalition



Ocean Literacy – EU4Ocean Coalition



#ExploreYourOcean with the
@EuropeAtlasSeas

nathalie.van.isacker@emodnet.eu



www.european-atlas-of-the-seas.eu