



Scientix, the community for science education in Europe

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<http://scientix.eu>

SCIENTIX

The community for science
education in Europe

Workshop objectives

- Present the **European Atlas of the Seas** and its features
- Show how the Atlas can be **used**
- Show examples of **practical exercises**
- Give an **example** of how layers in the Atlas can be combined
- Answer **questions**
- Hear your **feedback**

Practical guidelines

- The webinar will be **recorded**.
- **Use the Q&A** anytime to ask questions or let us know if something is not clear.



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

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

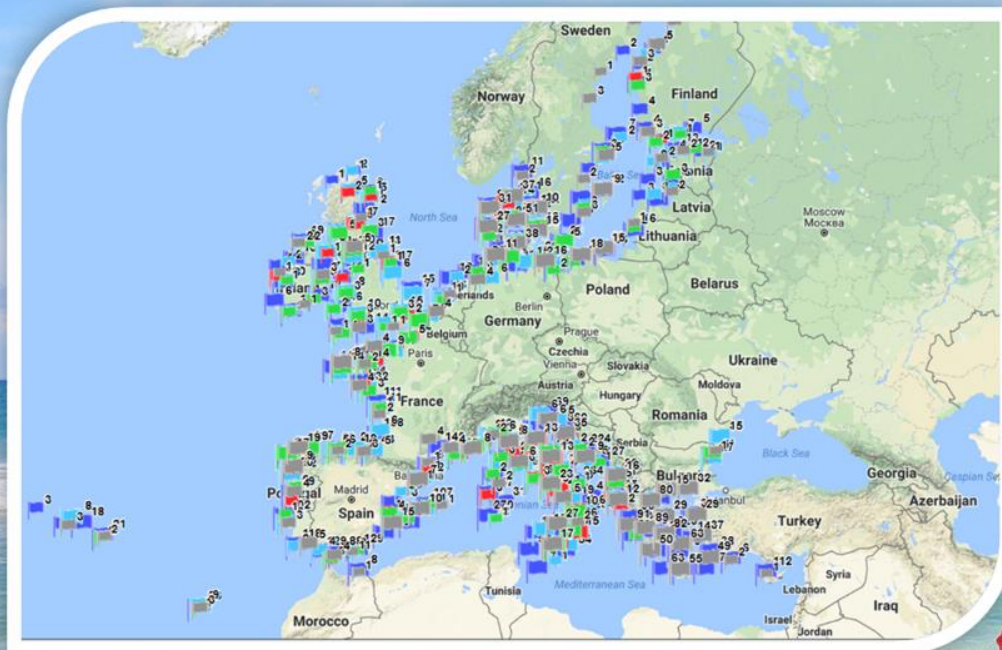
What type of litter can be found in the ocean? What can we do about it?

Where can I visit an aquarium?

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

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

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?

What type of litter is the most frequently found on beaches?



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**

What is the European Atlas of the Seas?

- All information and maps are **easily accessible**
- Maps are available in the **24 official languages of the European Union**
- Maps can be quickly **printed, shared and embedded** in presentations

What is the European Atlas of the Seas?



Tourism



Nature



Sea life



Transport



Sea bottom



Energy



Security



Employment



Fishing stocks and quota



Aquaculture

Behind the Atlas...

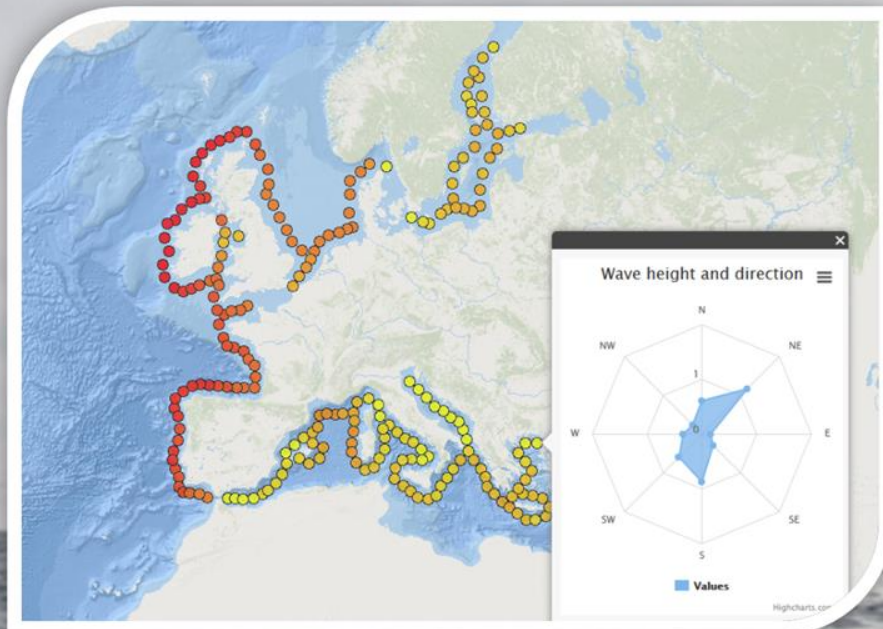
- The European Atlas of the Seas is an initiative of the Directorate General for Maritime Affairs and Fisheries (DG MARE) of the European Commission
- It is managed by the EMODnet Secretariat - European Marine Observation and Data Network since 2017

Where does the data come from?

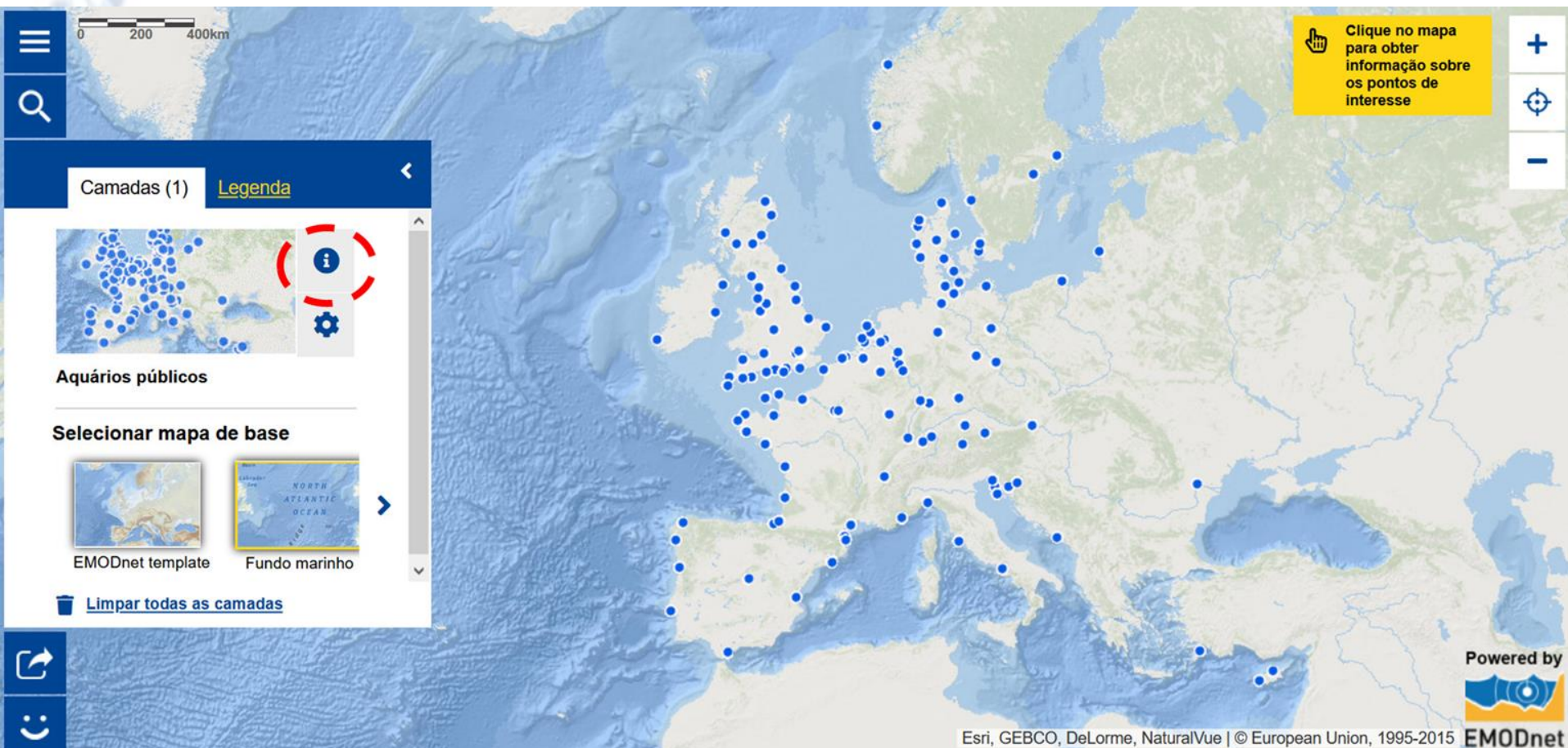
- European Commission, Directorate General for Maritime Affairs and Fisheries (DG MARE)
- Other services of the European Commission
- The European Marine Observation and Data Network (EMODnet)
- The European Environmental Agency
- Eurostat
- Copernicus Marine
- Joint Research Centre
- ...

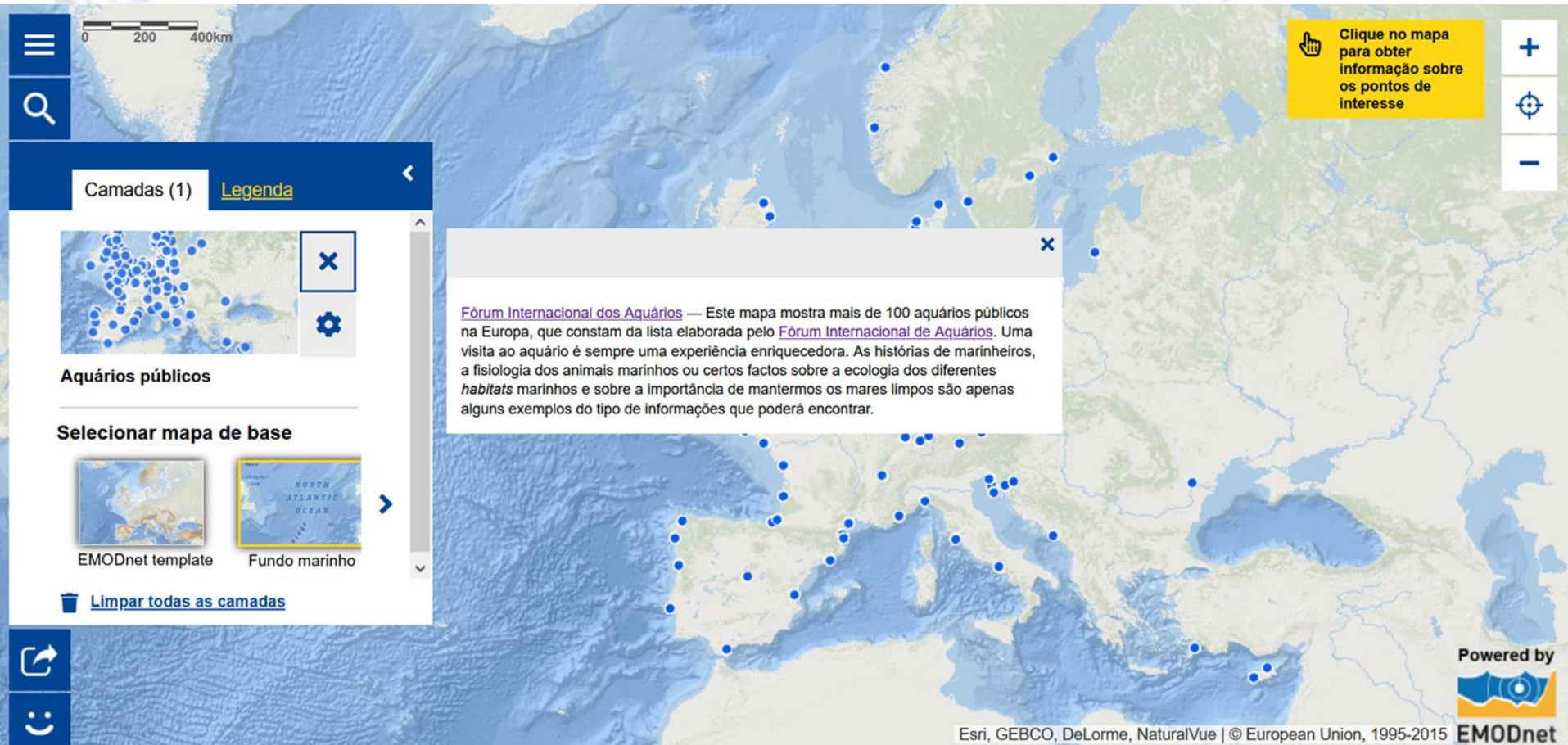
European Marine Observation and Data Network



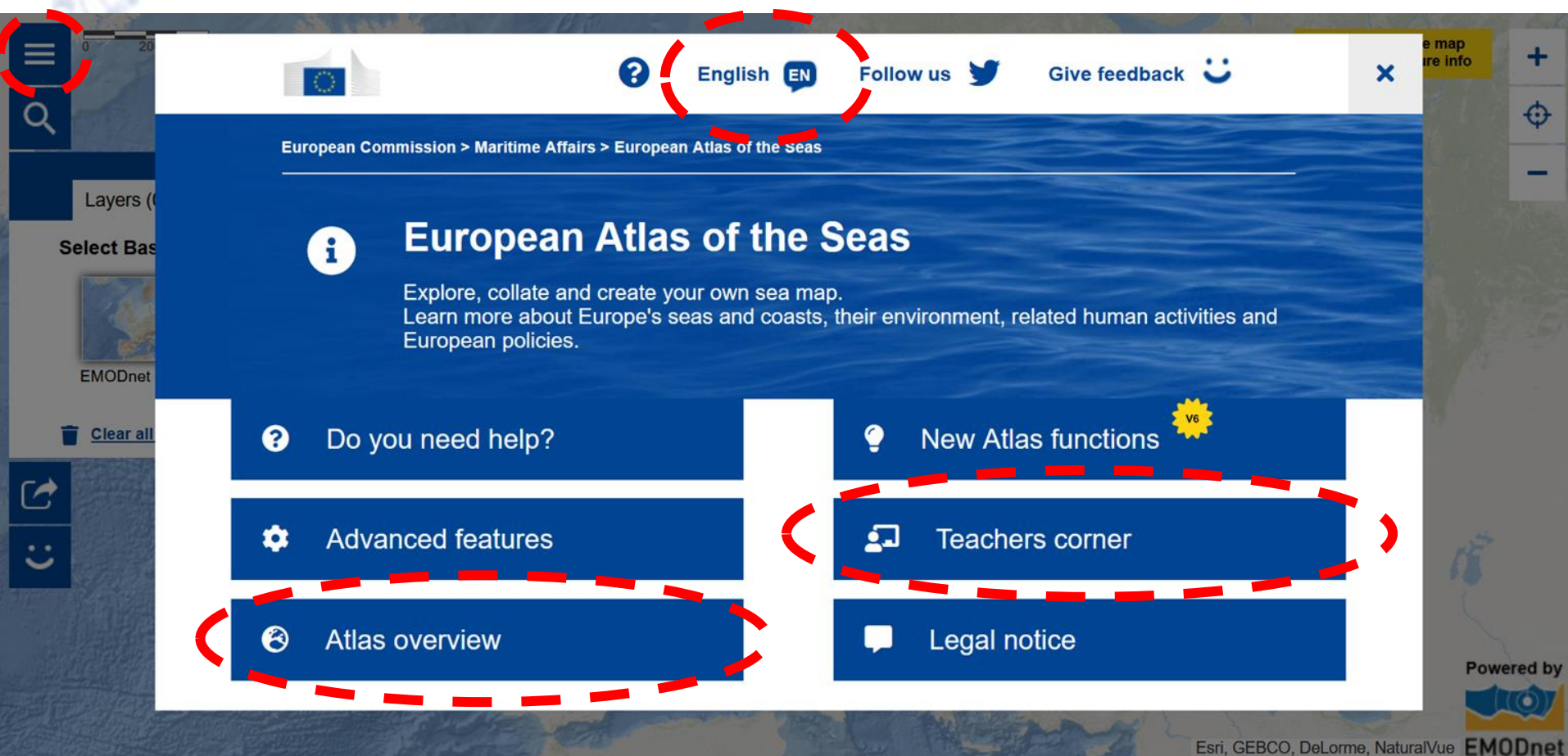


Source providers are always acknowledged and a link to the source location is provided whenever possible.





How does it work?



The screenshot shows the user interface of the European Atlas of the Seas. Red dashed circles highlight the following elements:

- Menu icon:** A hamburger menu icon in the top left corner.
- Language selector:** A button labeled "English EN" in the top navigation bar.
- Information icon:** An "i" icon next to the main title "European Atlas of the Seas".
- Help button:** A button labeled "Do you need help?" with a question mark icon.
- Advanced features button:** A button with a gear icon labeled "Advanced features".
- Atlas overview button:** A button with a globe icon labeled "Atlas overview".
- Teachers corner button:** A button with a person and screen icon labeled "Teachers corner".
- Legal notice button:** A button with a speech bubble icon labeled "Legal notice".
- New Atlas functions button:** A button labeled "New Atlas functions" with a lightbulb icon and a "V6" badge.

The main content area includes the text: "Explore, collate and create your own sea map. Learn more about Europe's seas and coasts, their environment, related human activities and European policies."

Ajouter des couches à la carte

Rechercher des couches

Cartes prédéfinies (19) Couches Histoires de cartes

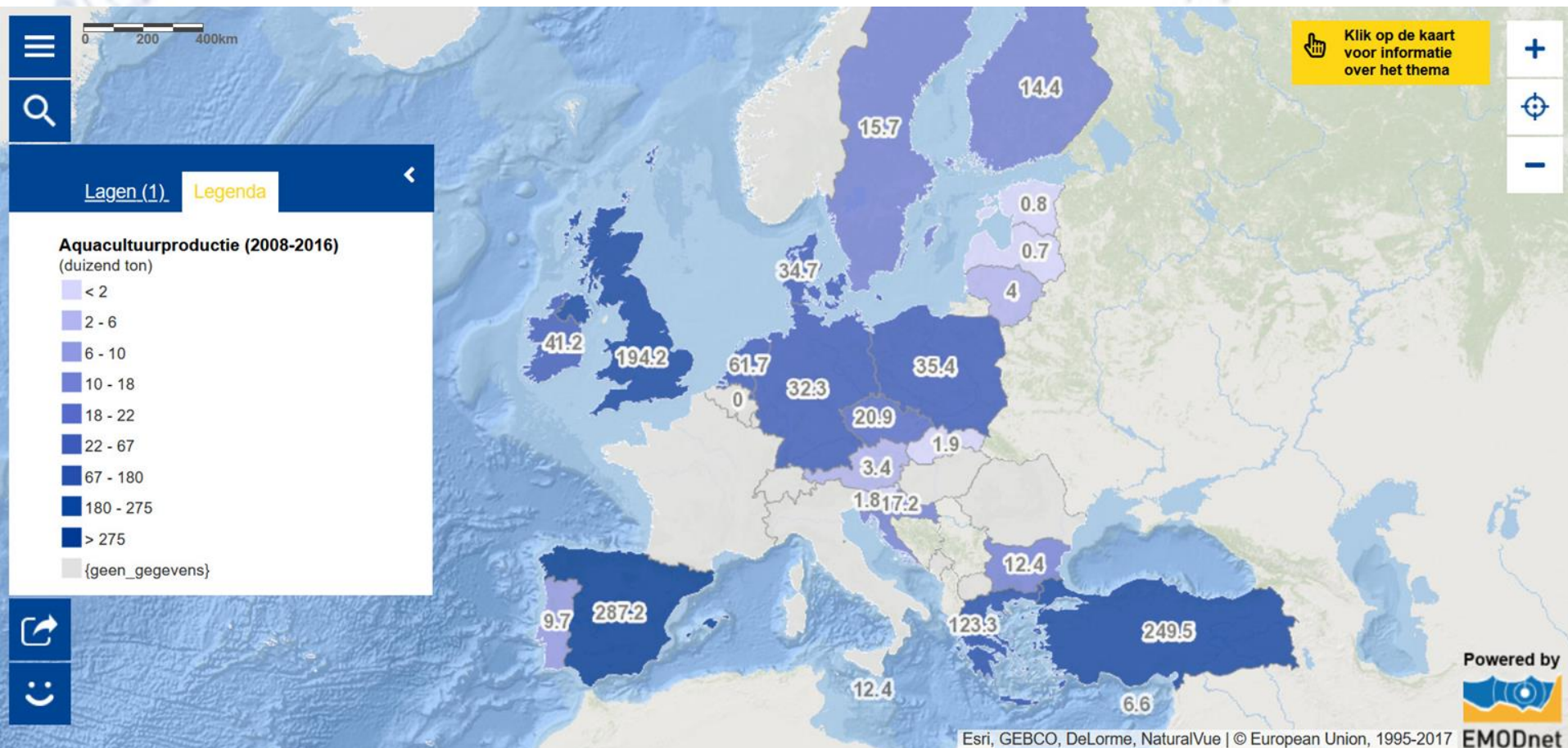
Algae production

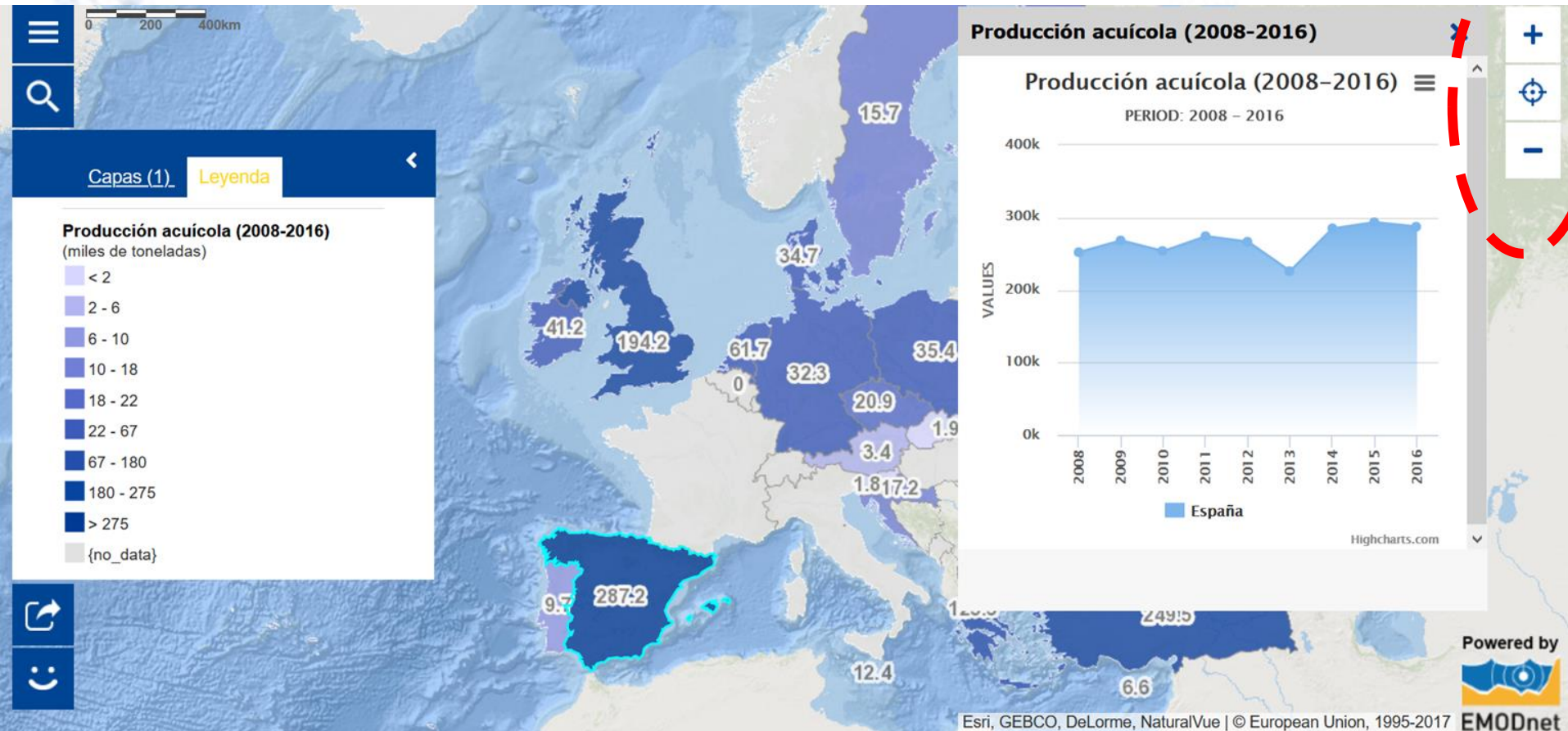
- ☐ Macroalgae production facilities
- ☐ Microalgae production facilities

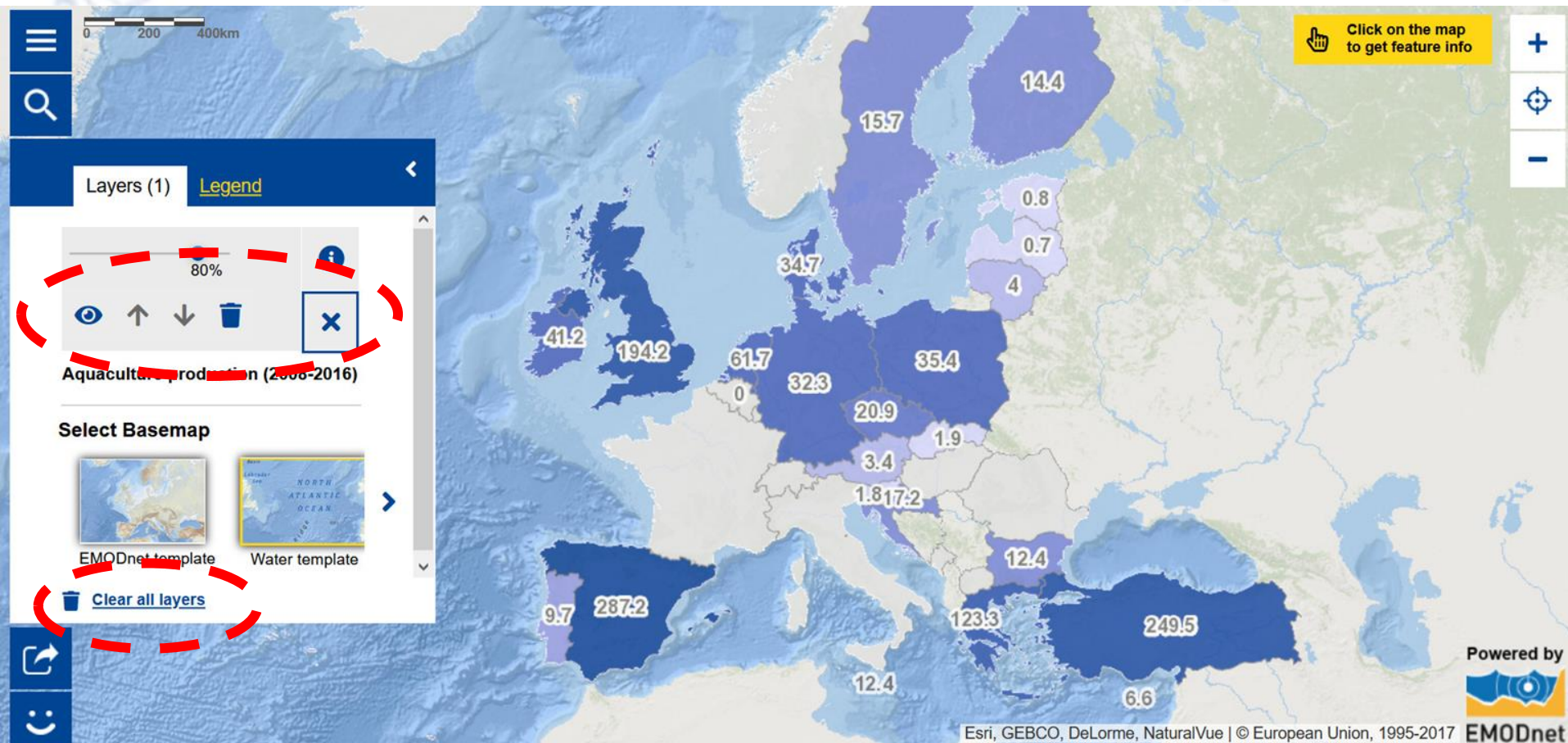
Aquaculture

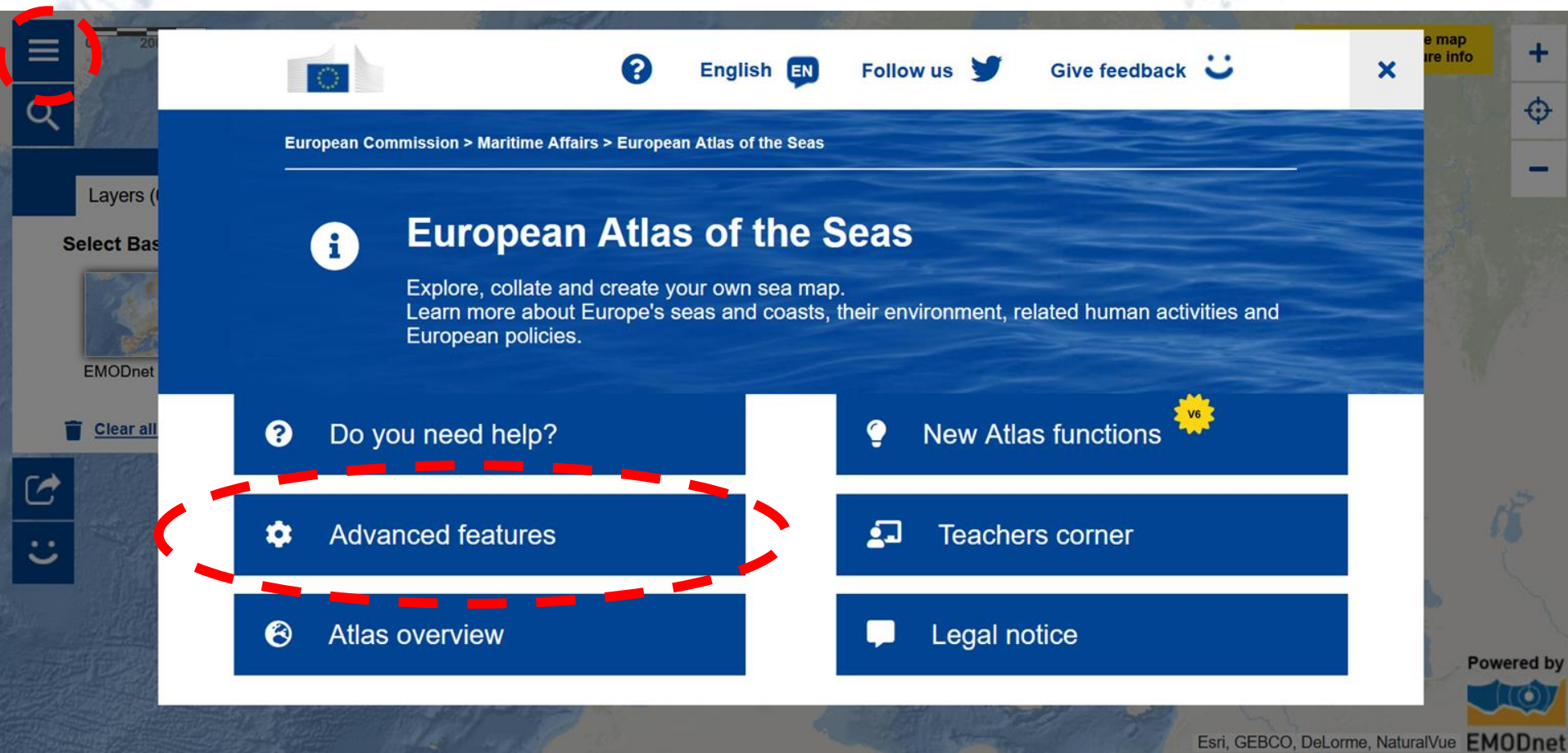
- ☒ Aquaculture production (2008-2016)
- ☐ Aquaculture production by species

Powered by EMODnet











Advanced features

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

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

0 200

Straturi

Acțiuni de

Selectați h

EMODnet

Stergeți

?

română RO

Urmăriți-ne

Oferiți feedback

Imprimare

EUROPEAN ATLAS OF THE SEAS

December 4, 2020

Acțiuni de curățare a plajelor

Evacuarea din 2018

Evacuarea din 2019

1:73.957.190

0 1000 2000km

+

-

Dimensiunea hârtiei:

Peisaj A3

Formatul:

☒ PDF
 ☐ JPG

☒ Includeți legenda

Straturi pentru imprimare >

Titlul hârtii:

EUROPEAN ATLAS OF THE SEAS

Scară:

1 : 73.957.190

pe hartă

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element

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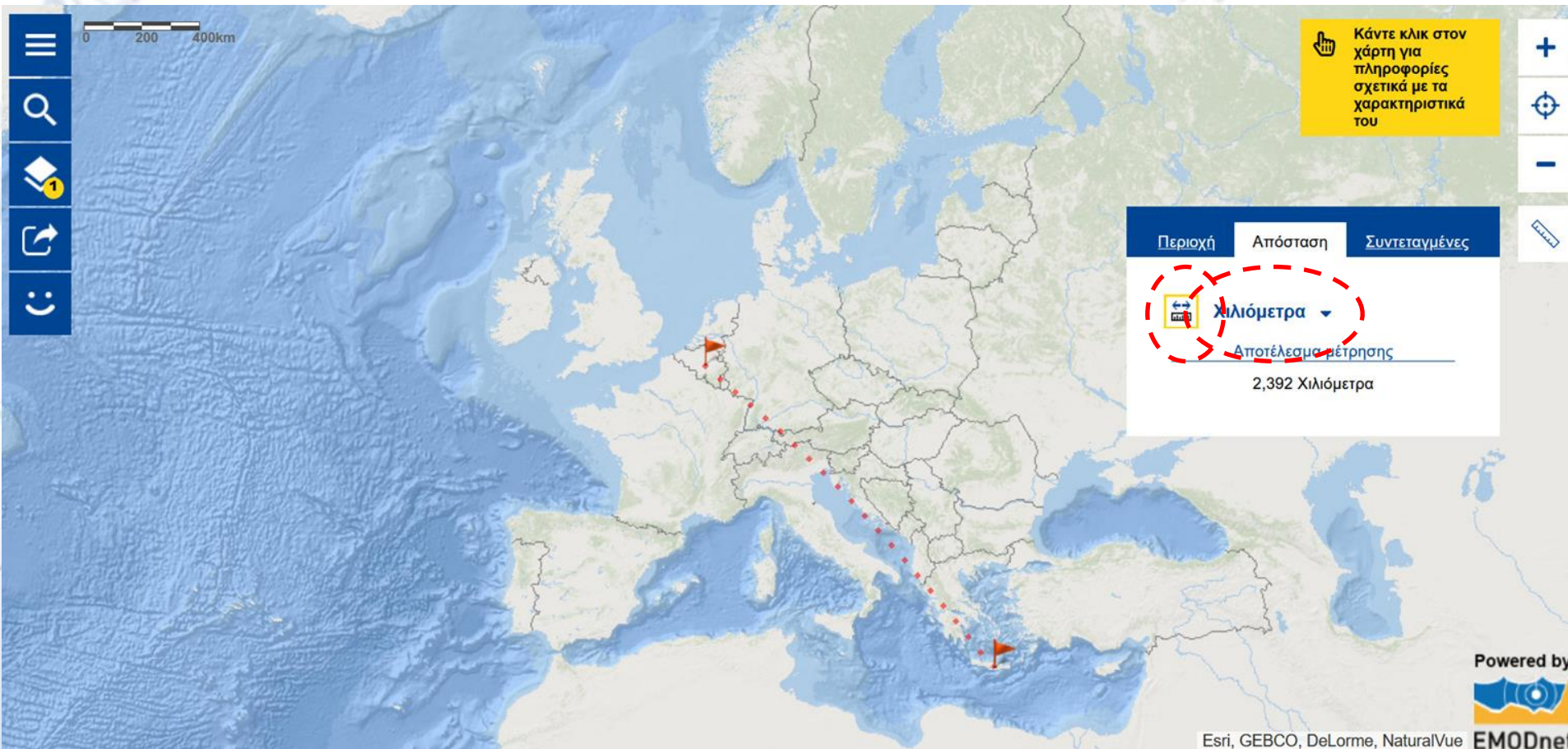
Powered by

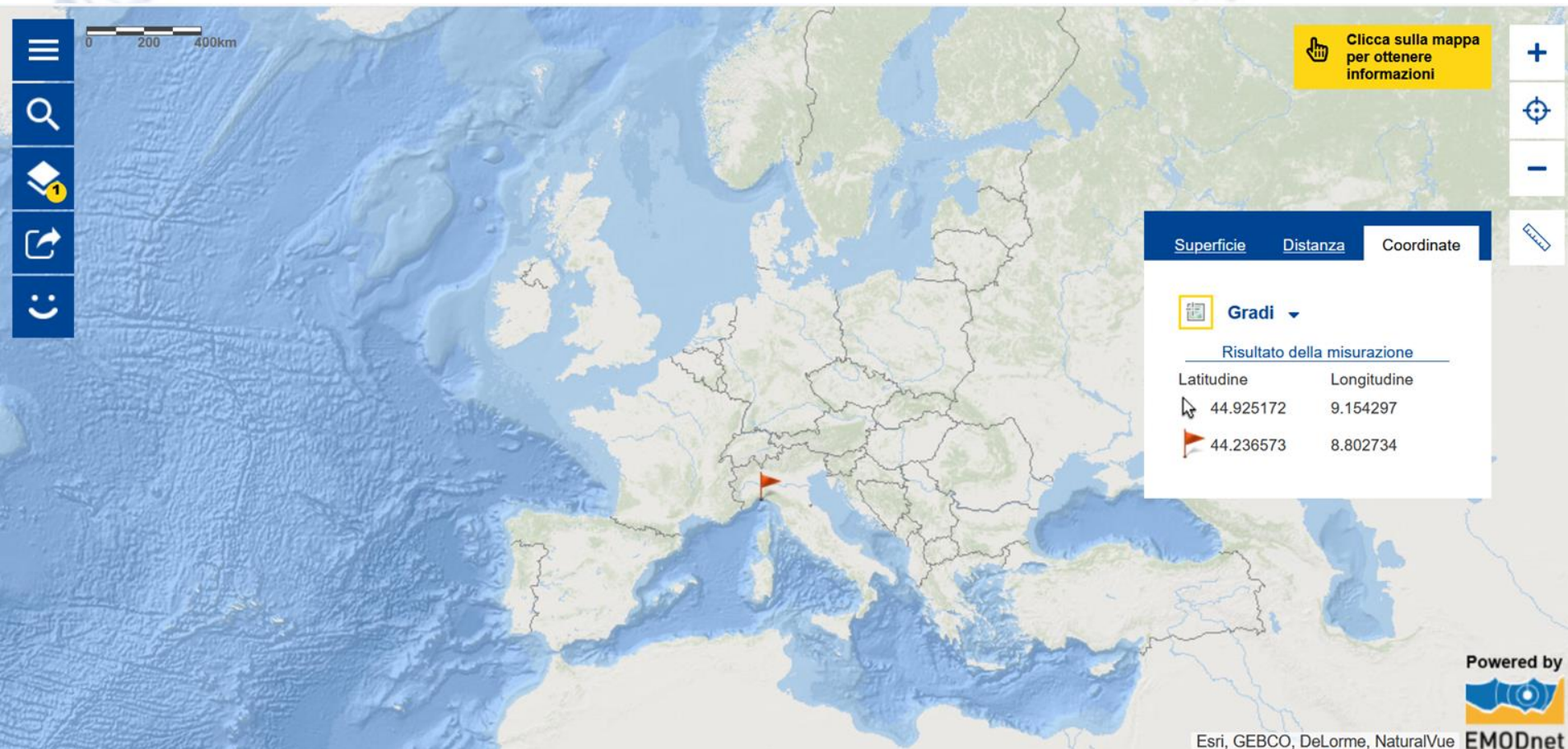
EMODnet

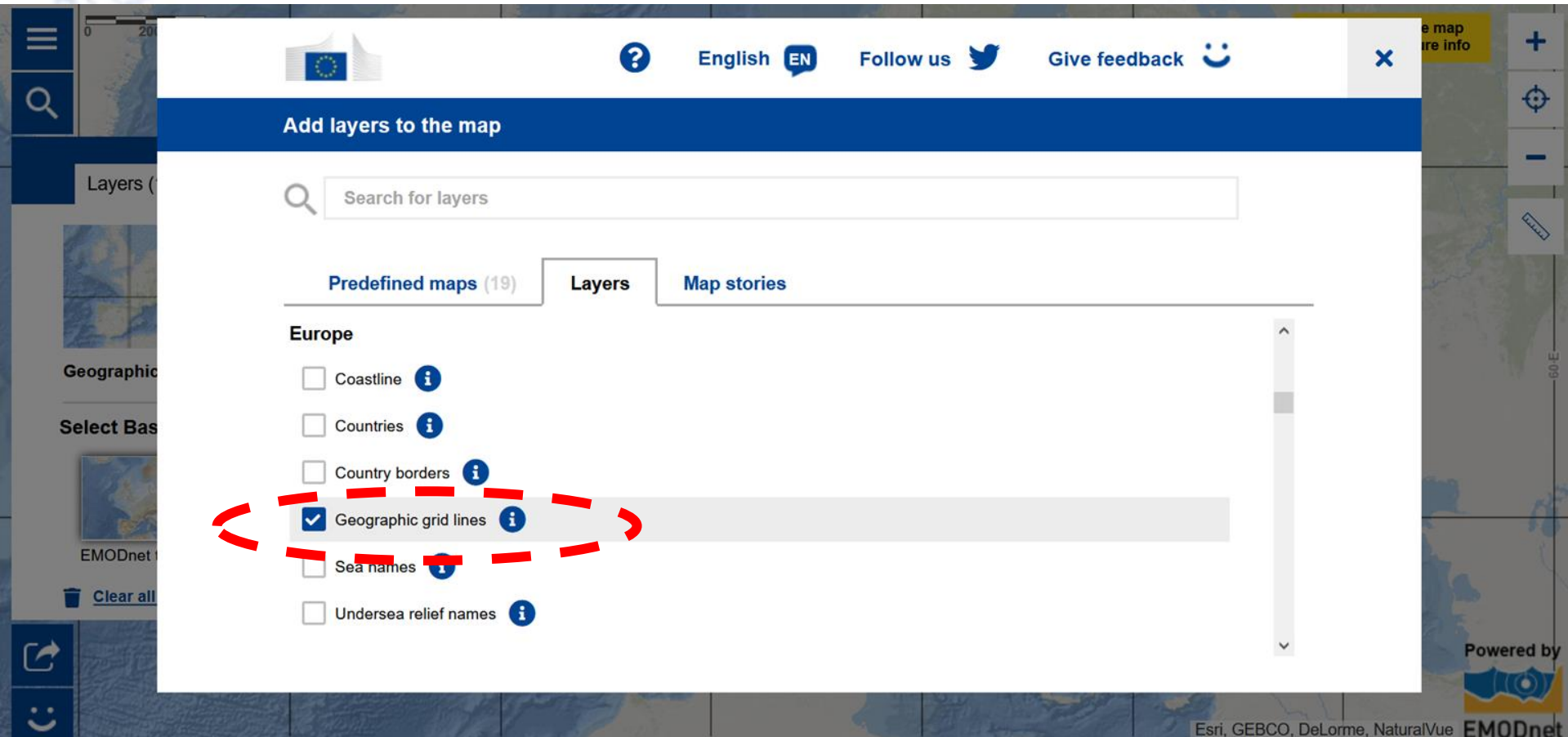
Powered by



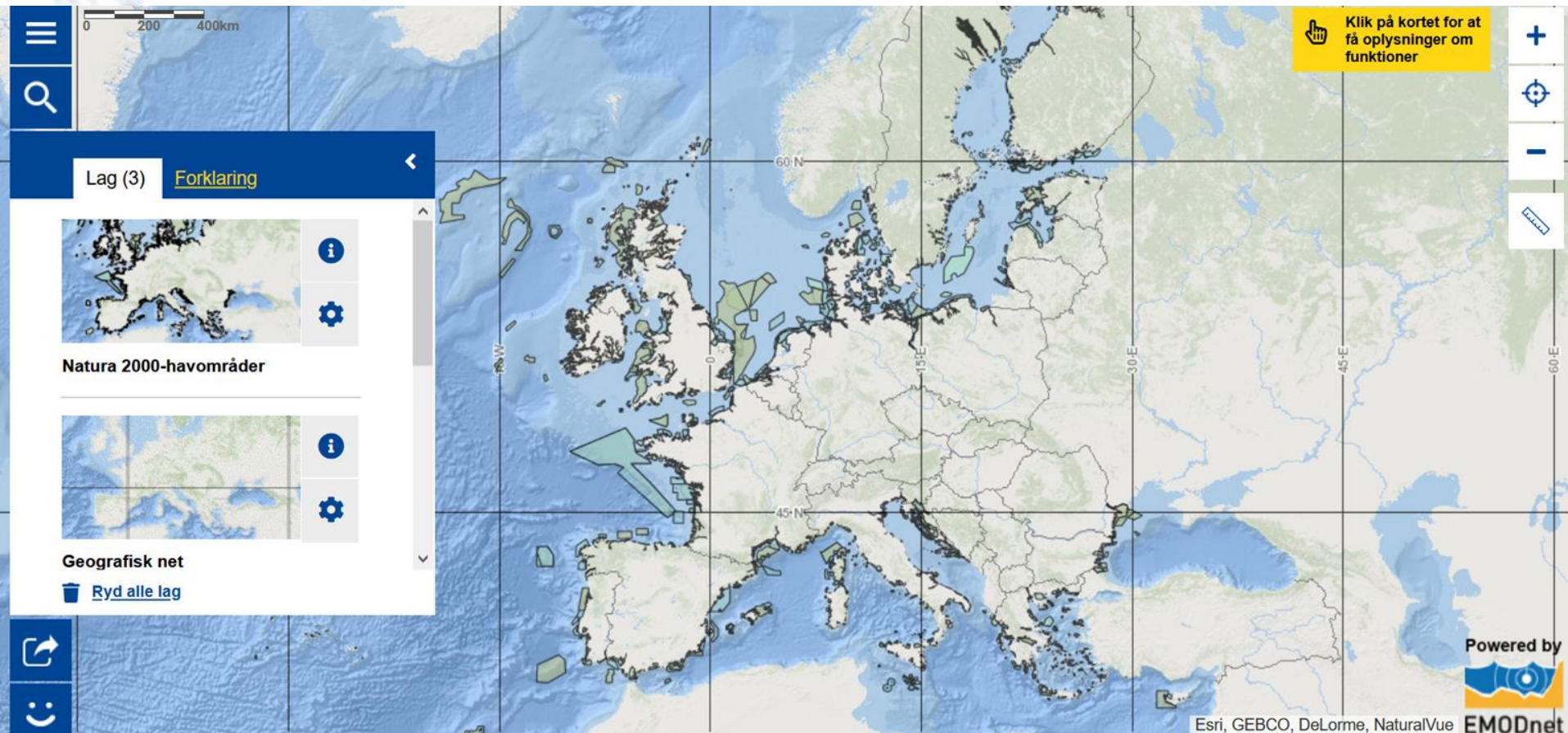
EMODnet







The screenshot shows the 'Add layers to the map' dialog box in the European Atlas of the Seas web application. The dialog has a search bar at the top and three tabs: 'Predefined maps (19)', 'Layers', and 'Map stories'. Under the 'Layers' tab, a list of layers is shown for the 'Europe' region. The 'Geographic grid lines' layer is selected, indicated by a blue checkmark and a red dashed circle. Other layers include 'Coastline', 'Countries', 'Country borders', 'Sea names', and 'Undersea relief names'. Each layer has an information icon (i) next to it. The background shows a map of Europe with various navigation controls on the right side.



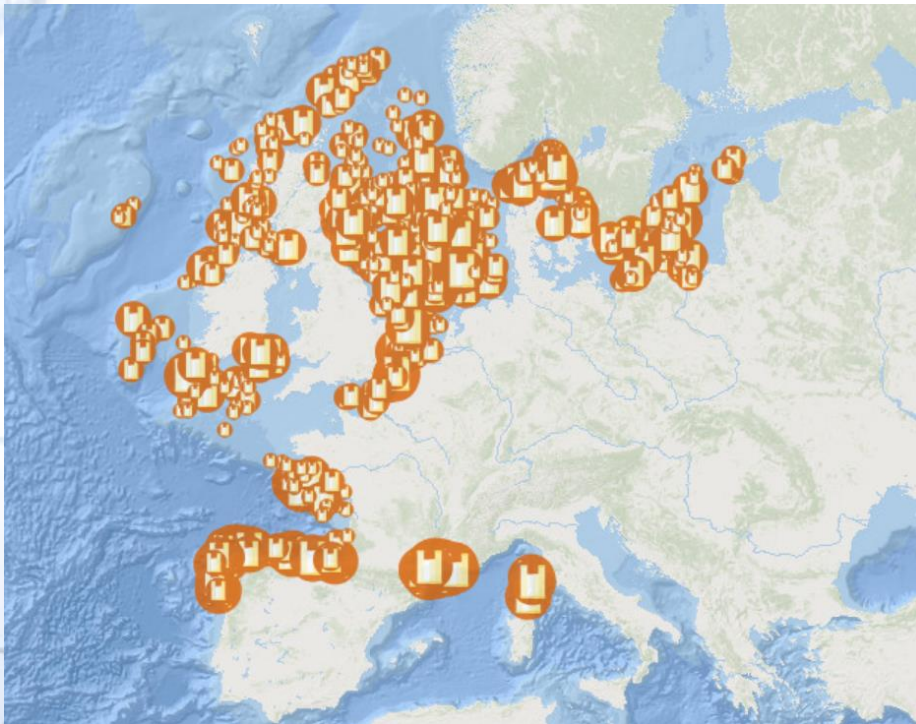
Developing students' competences

- 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 maps
- Learn to **search for information** online and **summarize findings** into a presentation
- Work in different **languages**
- ...

Expanding students' knowledge

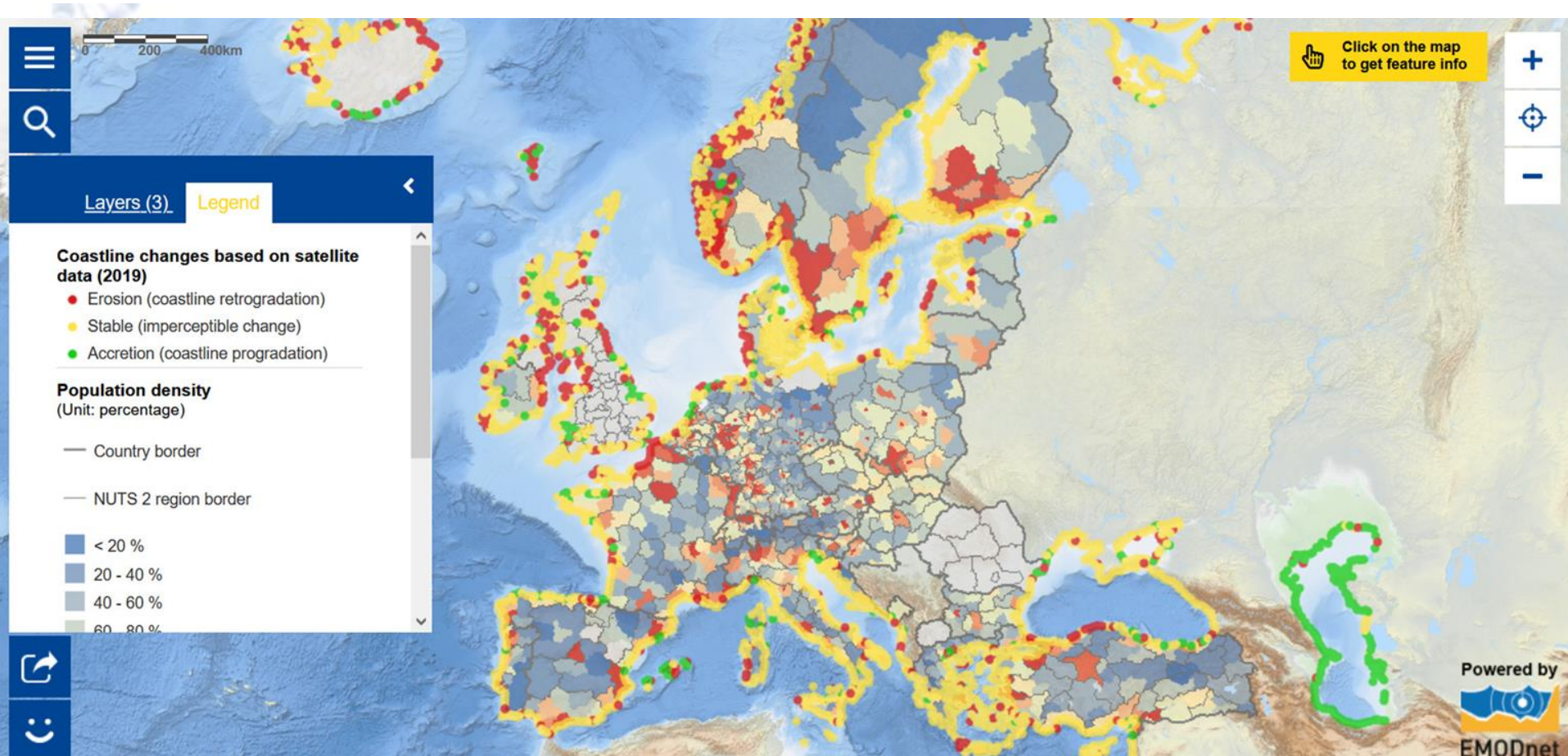
- Geography
- STEM - Science, technology, engineering, and mathematics
- Nature conservation
- Environmental issues
- Economy
- Sustainable development
- Civic education
- Languages
-

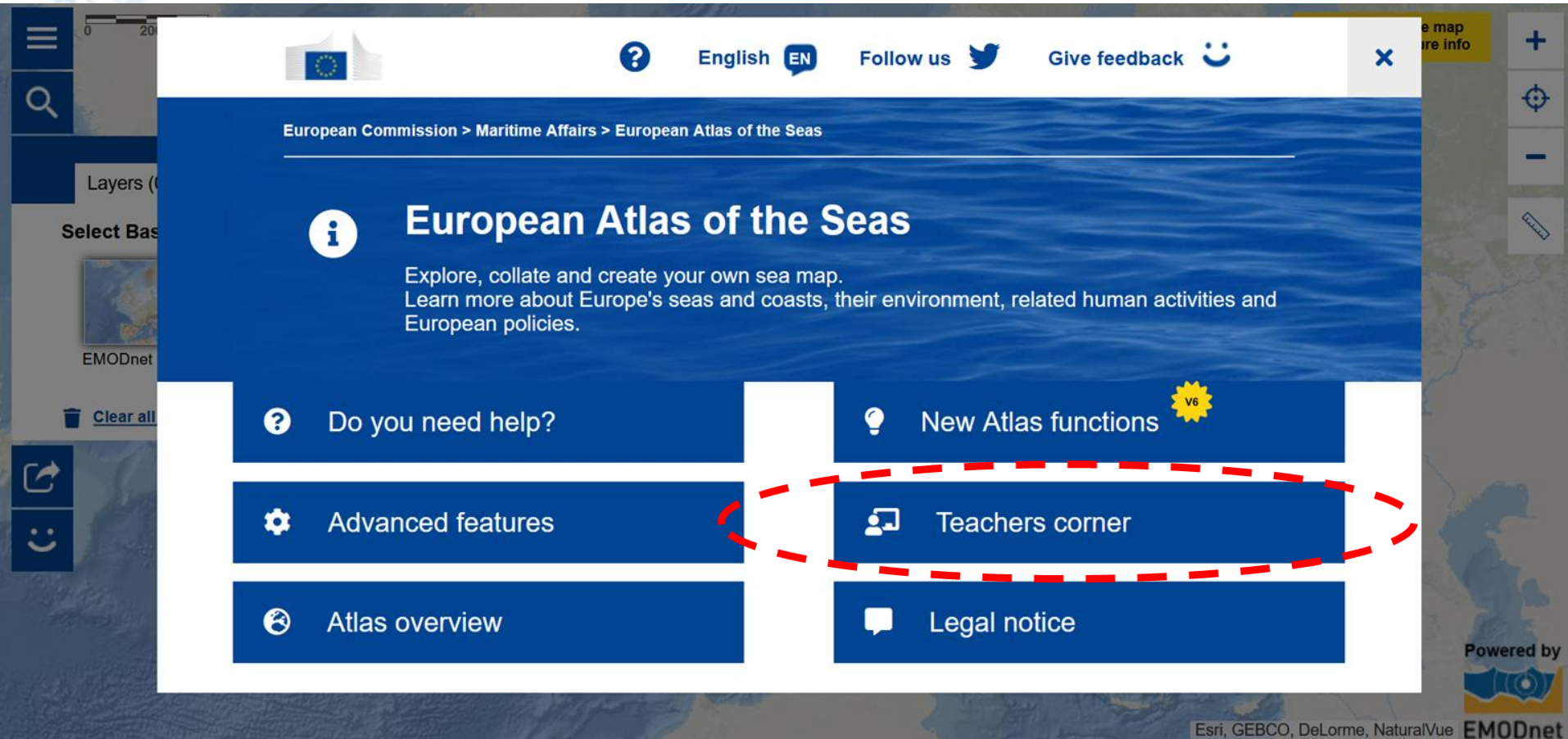
Supporting projects at school



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

What can we learn from combining layers?





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

European Atlas of the Seas - Teachers Corner



Expand all Collapse all

- > Teachers Corner
- > Espace enseignants
- Espaço dos professores
- Posters
- Presentations
- Workshops

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

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, EEA, ...) and from the European Marine Observation and Data Network (EMODnet).

The Atlas offers an ocean of information in a user-friendly way about topics such as



Ages 12 to 15

Space tools

Log in

Expand all Collapse all

Teachers Corner

Up to 12 years

Ages 12 to 15

Ages 15 to 18

Espace enseignants

Espaço dos professores

Posters

Presentations

Workshops

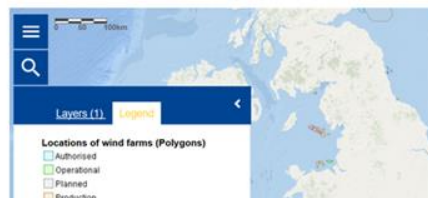
Quiz

The European Atlas of the Seas can be used for students to explore and learn about the seas and maritime areas of the European Union in an interactive way. You can zoom in on a special area, sea basin or country, export the result to a link (to use it later) or even print it. If you are working with a website, you can embed a map easily (the code can be generated from the share option).

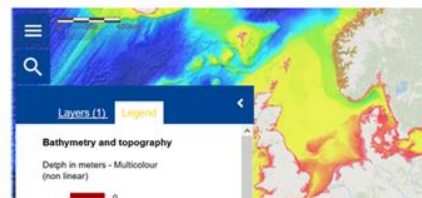
Moreover, you can play with transparency to enhance the details you want on your map, or change the background by selecting another base map. A measurement tool is available to calculate distances and areas. All this and more is explained in the [help file](#) and do not hesitate to contact us with your feedback.

Some examples of exercises are already available here.

Energy

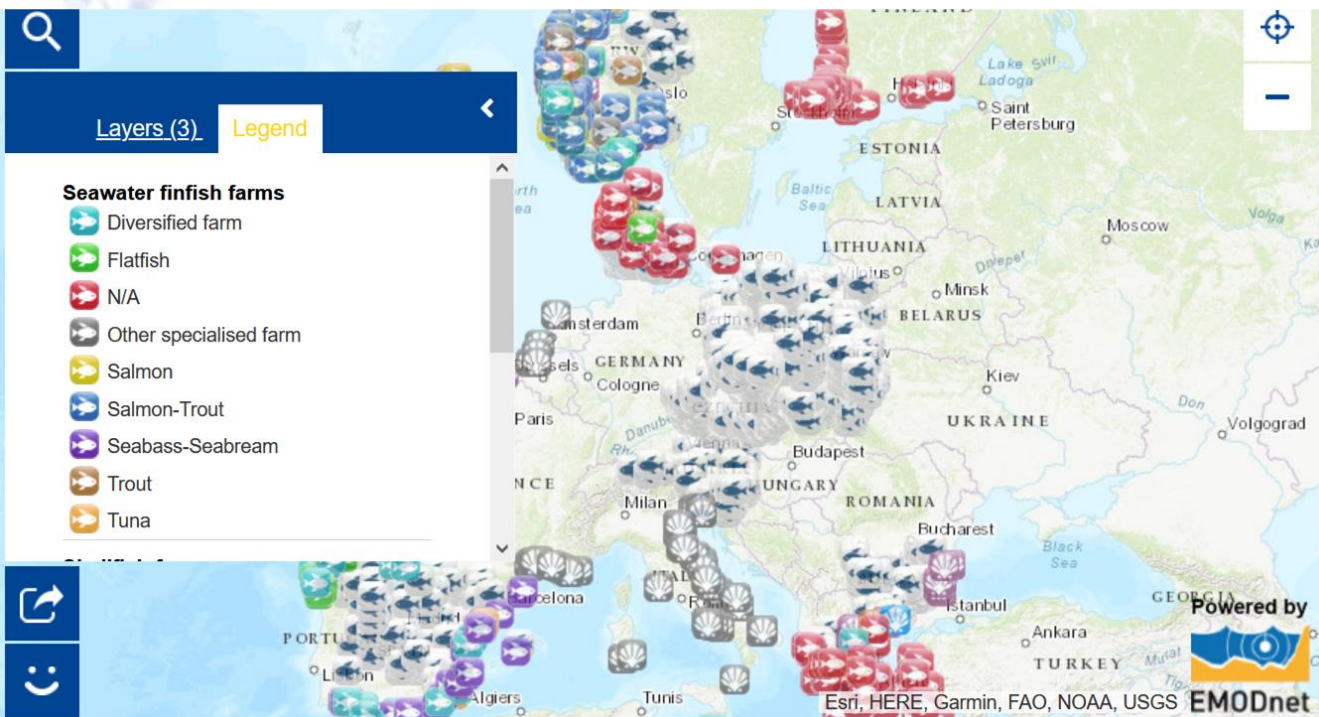


Sea Bottom

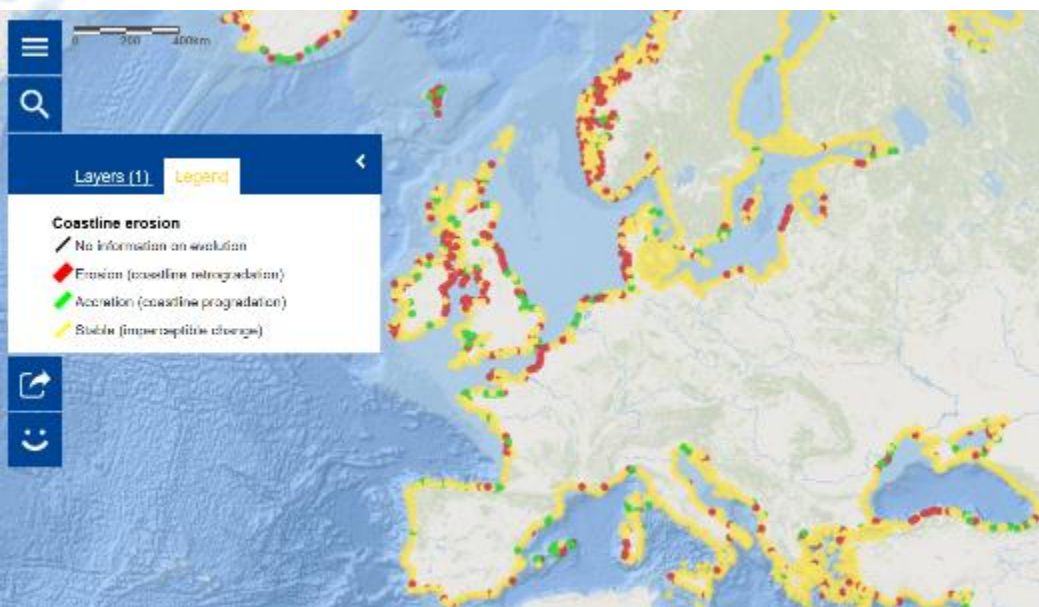


Coastline Erosion

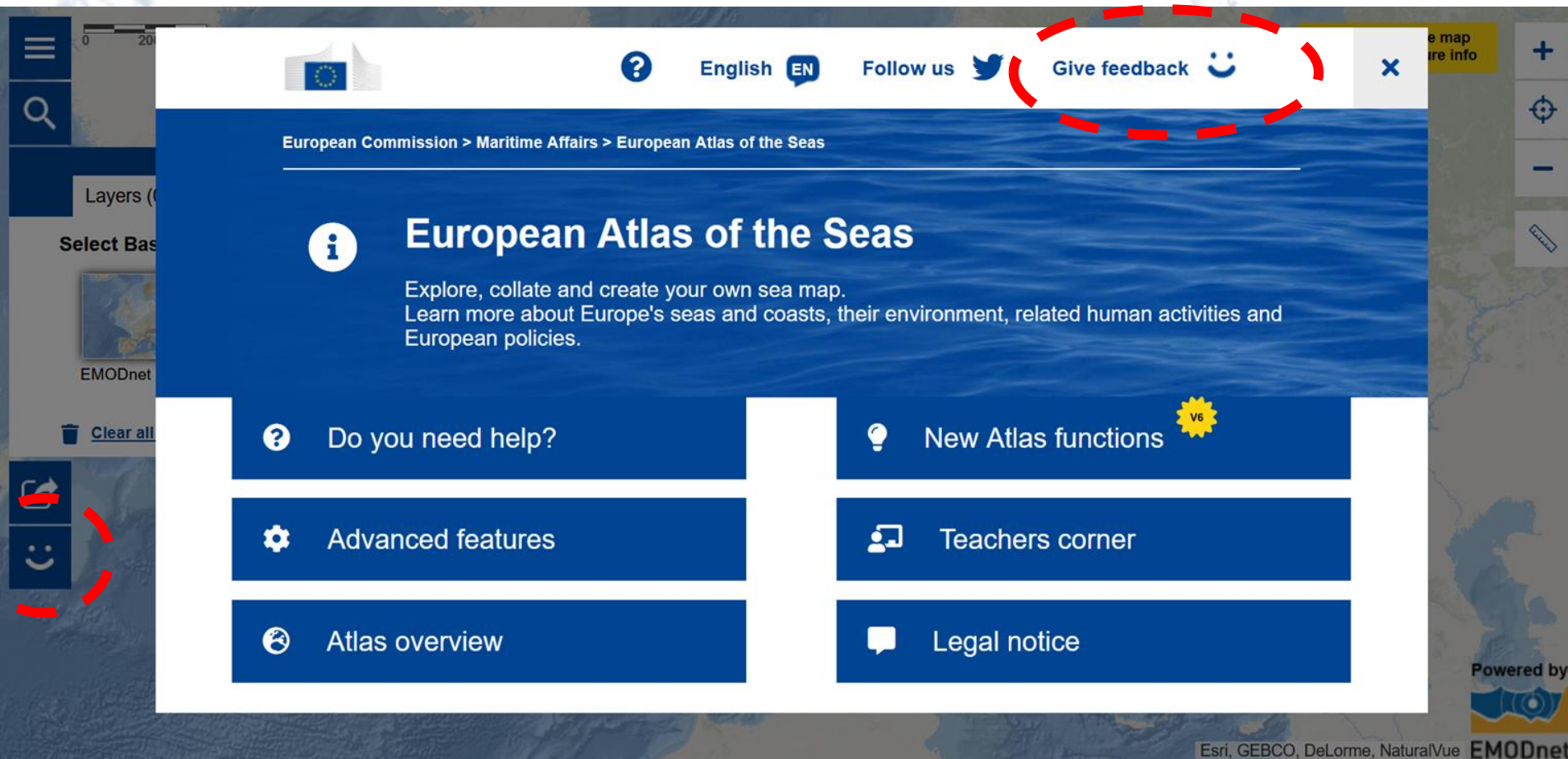




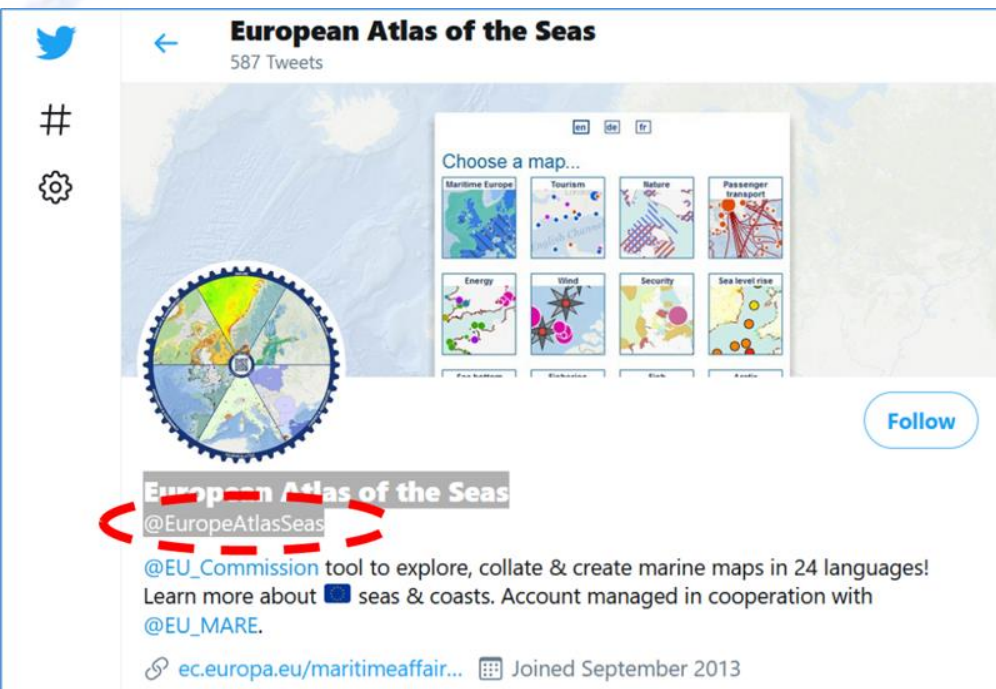
- Which map do you need to find mussels cultivations?
- Where is the nearest mussel cultivation located? At which distance?
- Where do you find the nearest fin fish cultivation? Where do you find most fin fish cultivation?



- What do the different colours mean?
- What influences erosion? Look for indicators in other maps: currents, wave heights, wind direction, composition of the sea bottom, sediments?
- What can happen when the sea level rises?
- What is the opposite of erosion?



How can I stay informed ? @EuropeAtlasSeas





Aš tikiu, kad vienas geriausių būdų išsaugoti sveikus vandenynus yra padėti europiečiams geriau suvokti jų svarbą ir ugdyti suvokimą, kad vandenynų būklė priklauso nuo kasdienės kiekvieno iš mūsų veiklos.

I believe that one of the best ways to preserve healthy oceans is to help Europeans better understand their importance and to raise awareness that the state of the oceans depends on the daily activities of each of us.

Virginijus Sinkevičius, European Commissioner for Environment, Oceans and Fisheries

Nerkite į žinių vandenyną!
Dive in and #ExploreYourOcean!

@EuropeAtlasSeas




Η θάλασσα αποτελεί πηγή ζωής, ηρεμίας, έμπνευσης και ευτυχίας για τους ανθρώπους. Η θάλασσα βιοποικιλότητα είναι ανεκτίμητη. Σήμερα, καταστρέφεται χωρίς έλεος. Μάθε και δράσε!

The sea is a source of life, tranquility, inspiration, and happiness for humans. Marine biodiversity is precious. Nowadays it is destroyed with no mercy. Learn and act!

Stella Voreltzidou / Στέλλα Βαρελτζίδου
Conservation Biologist, Former Scientific Coordinator of the Aegean/Laodikeia-Alakmones Protected Area and sea lover

Βουτήξε και εξερεύνησε τον ωκεανό σου
Dive in and #ExploreYourOcean!

@EuropeAtlasSeas




Notre avenir dépend des océans. Ils nous permettent de respirer, de nous nourrir, ils régulent notre climat, ils nous protègent et nous guérissent, ils sont indispensables à notre culture et à nos loisirs. Il faut plus de recherche et d'éducation afin que chacun puisse continuer à bénéficier de ces bienfaits.

Our future depends on the oceans. They allow us to breathe, they regulate our climate, they protect and heal us, they are essential to our culture and our leisure activities. More research and education are required so that everyone can continue to enjoy these benefits in the long term.

Philippe VALLETTE, Directeur Général
Nausicaâ Centre National de la Mer – Boulogne sur mer

Plongez à la découverte de l'océan!
Dive in and #ExploreYourOcean!

@EuropeAtlasSeas




O Oceano como bem maior para a segurança da planície enfrenta sérios problemas que necessitam de políticas globais. Promover uma boa governação baseada no conhecimento científico requer cidadãos informados que apoiem a evidência científica, a que se tornou ainda mais importante em tempos de pós-verdade, notícias falsas e crenças pós-factuais.

The Ocean, as a major asset to the security of our planet, faces serious problems which must be addressed by global policies. Enabling good governance based on scientific knowledge requires citizens supporting scientific evidence. This becomes even more important in times of post-truth, fake news and post-factual beliefs.

Ricardo Serrão Santos
Minister of the Sea of Portugal

Mergulhe e explore o oceano!
Dive in and #ExploreYourOcean!

@EuropeAtlasSeas




Tá an eolaíocht ag fíonaíse cumhacht na farráige chun muid a leigheas. Tá sláinte na farráige agus sláinte daoine fite fuaite ina chéile. Má dhéanaimid an fharraige a athshlánú, déanaimid muid féin a athshlánú.

Science is evidencing the power of the sea to heal us. The health of the ocean and health of humans are completely interconnected. If we restore the sea, we restore ourselves.

Dr. Easkey Britton, PhD
Surfer & Marine Social Scientist

Léim isteach agus déan iniúchadh ar do fharraige
Dive in and #ExploreYourOcean!

@EuropeAtlasSeas




Dit is de eeuw van de oceaan. Maar de oceaan verandert snel door de klimaatcrisis. Een gezonde oceaan zal een belangrijk deel van de oplossing zijn. Dat vraagt grote investeringen in multidisciplinair oceanonderzoek. Nu.

We live in the Century of the Ocean, but the ocean is changing rapidly because of the climate crisis. A healthy ocean will be a significant part of the solution. This will require large investments in multidisciplinary ocean research. Now.

Prof. Dr. Jan Mees
General Director VLIZ, Flanders Marine Institute, Ostende, Belgium

Duik erin en kies het ruime sop!
Dive in and #ExploreYourOcean!

@EuropeAtlasSeas





<https://ec.europa.eu/ocean-literacy/blue-schools>

info@blueschools.eu



Nathalie Van Isacker and Andrée-Anne Marsan
14 January 2021
European Atlas of the Seas Webinar

Join the Network of European Blue Schools! European Blue School

- Have your students become **agents for change and sustainability** of the ocean and seas;
- Share your experiences with **other schools** in the Network of European Blue Schools;
- Find **inspiration and support** on how to address ocean topics that are relevant to your curricula, your school and your community;

Join the Network of European Blue Schools! European Blue School

- Explore your link to the ocean and sea with a **Find the Blue Challenge**;
- Build a connection between schools and **local ocean stakeholders**;
- Receive the **European Blue School certification** recognizing the value of your initiative.



From local to European: use the Atlas to investigate how a local ocean issue relates to the European situation



Nathalie Van Isacker and Andrée-Anne Marsan

14 January 2021

European Atlas of the Seas Webinar

Thank you

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andree-anne.marsan@emodnet.eu