# EU40CEAN SPOW -**PLASTIC POLLUTION AND WORKING WITH OCEAN TECHNOLOGY**











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## The European Atlas of the Seas

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









### What is the European Atlas of the Seas?











Energy

Sea life

**Transport** 













Fishing stocks and quota







- Interactive learning tool
- Initiative of the European Commission
- More than 270 interactive map layers
- Identified data sources
- Custom maps
- Easily accessible
- 24 official languages
- Print & embed tools



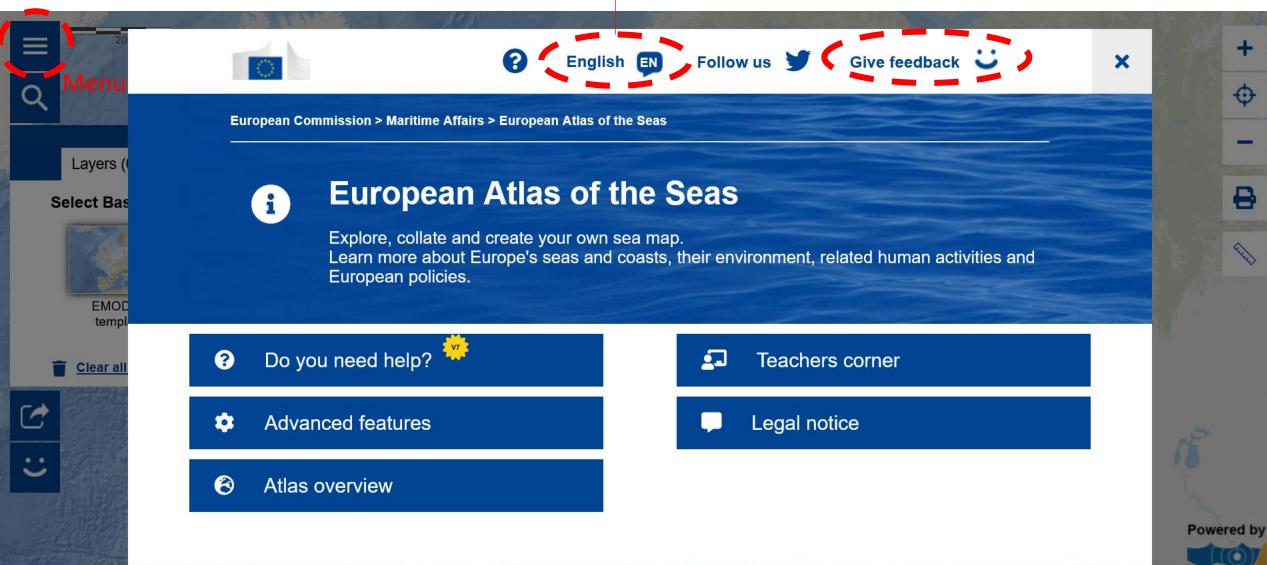


www.european-atlas-of-the-seas.eu

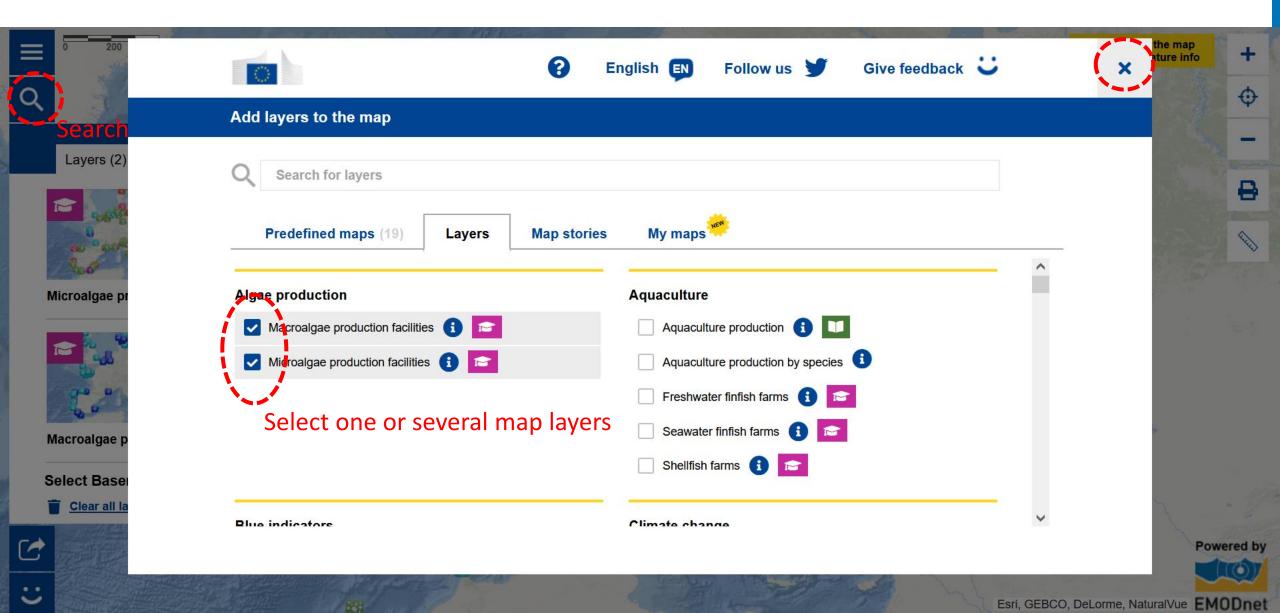
### How does it work?

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

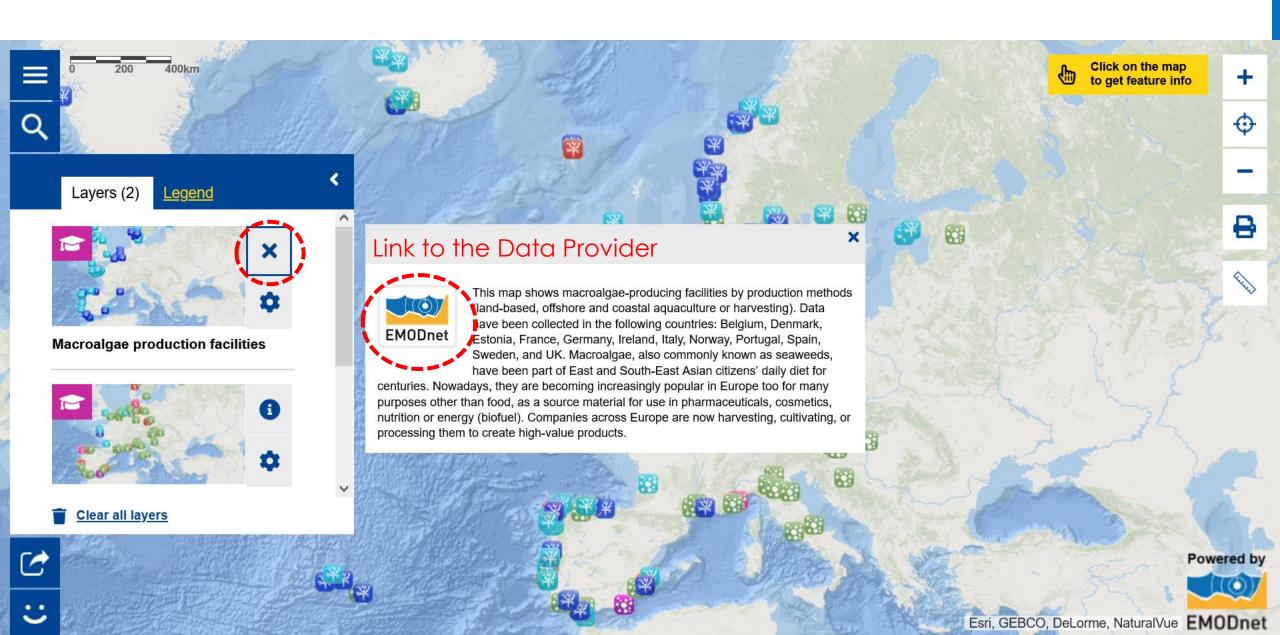
24 languages



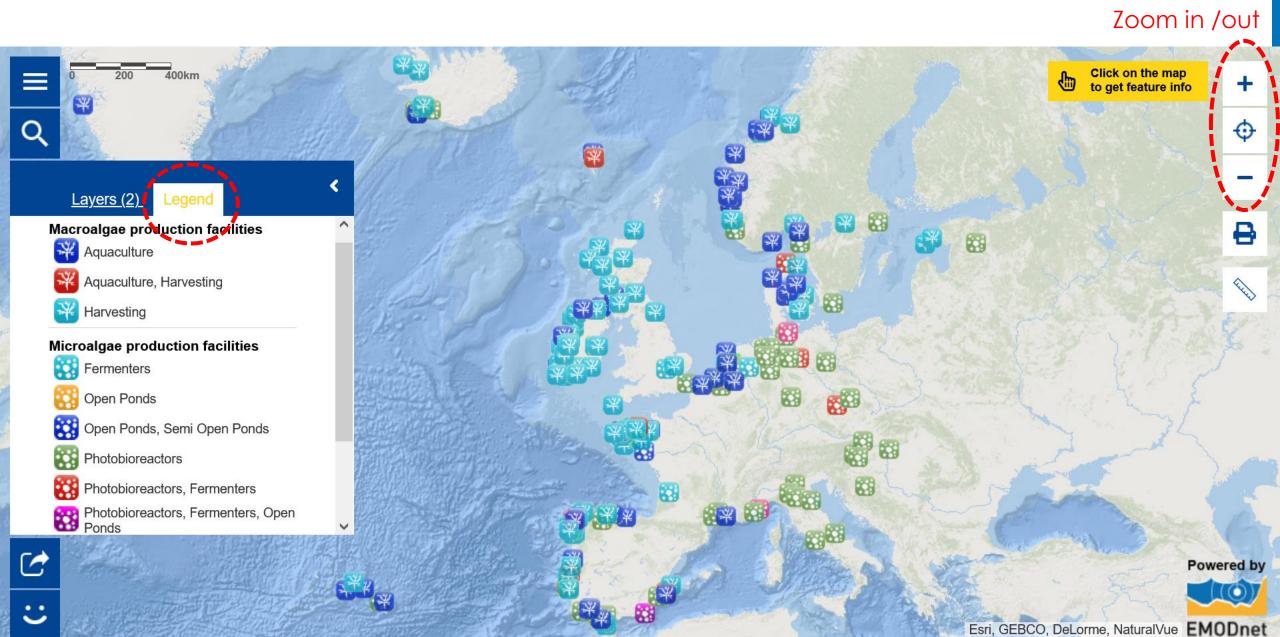
### **Looking for map layers...**



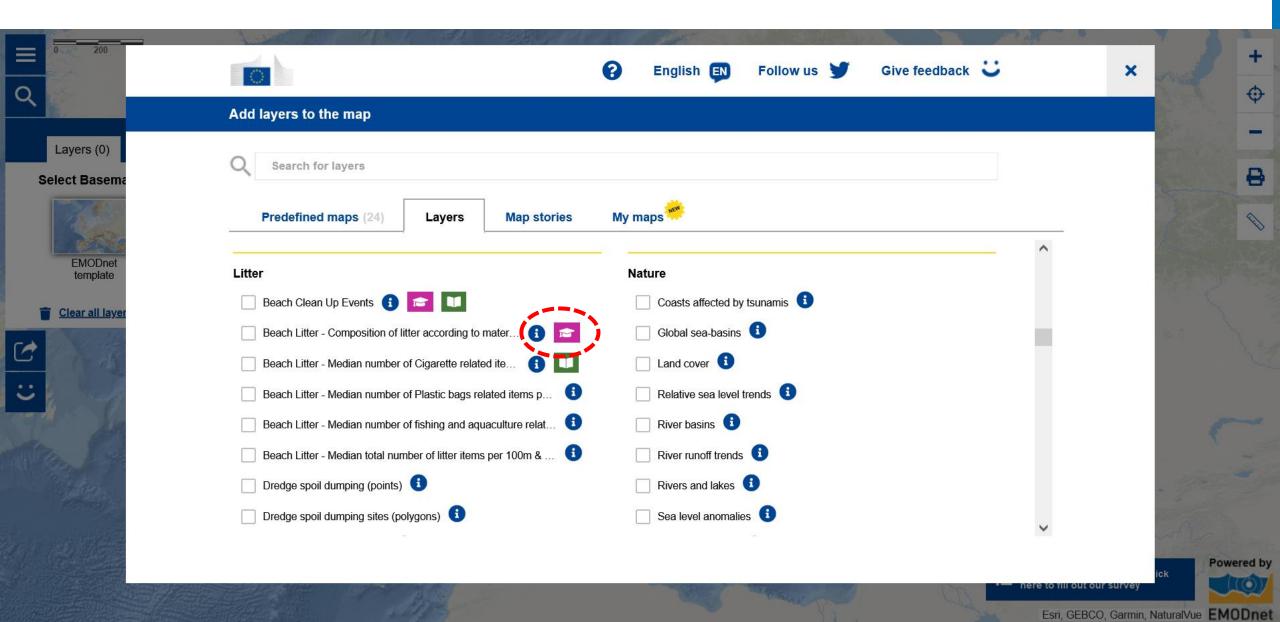
### Finding information about the map layer ...



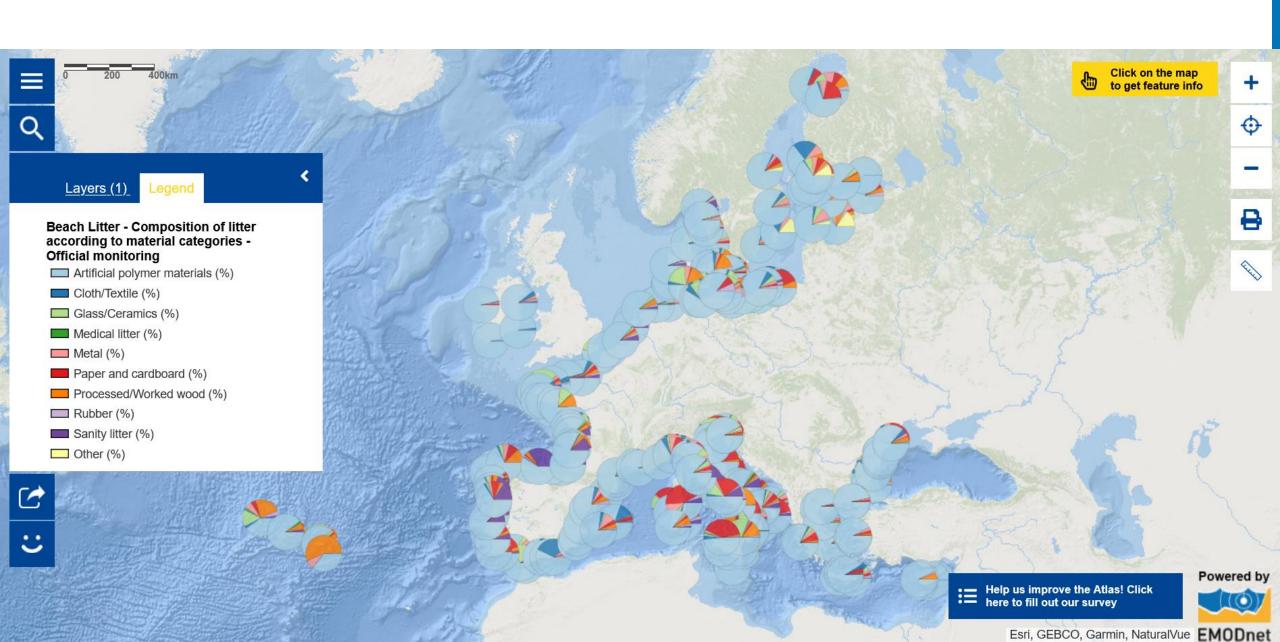
## Reading the legend, zooming in and out ...



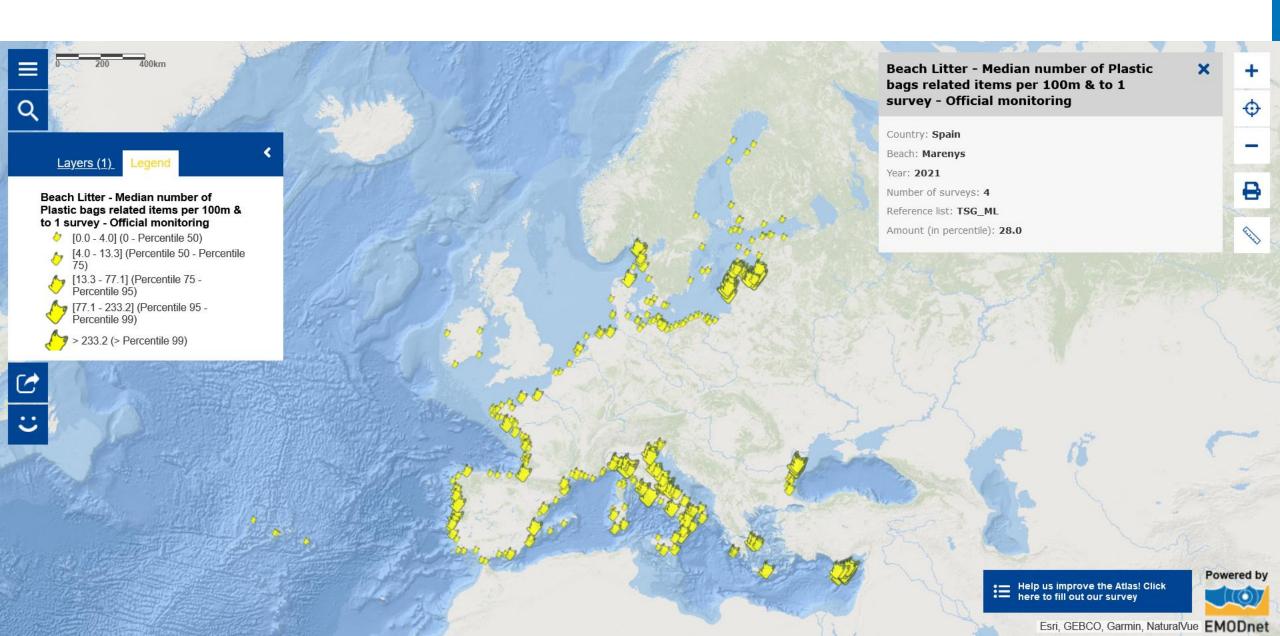
### Looking for map layers on marine litter...



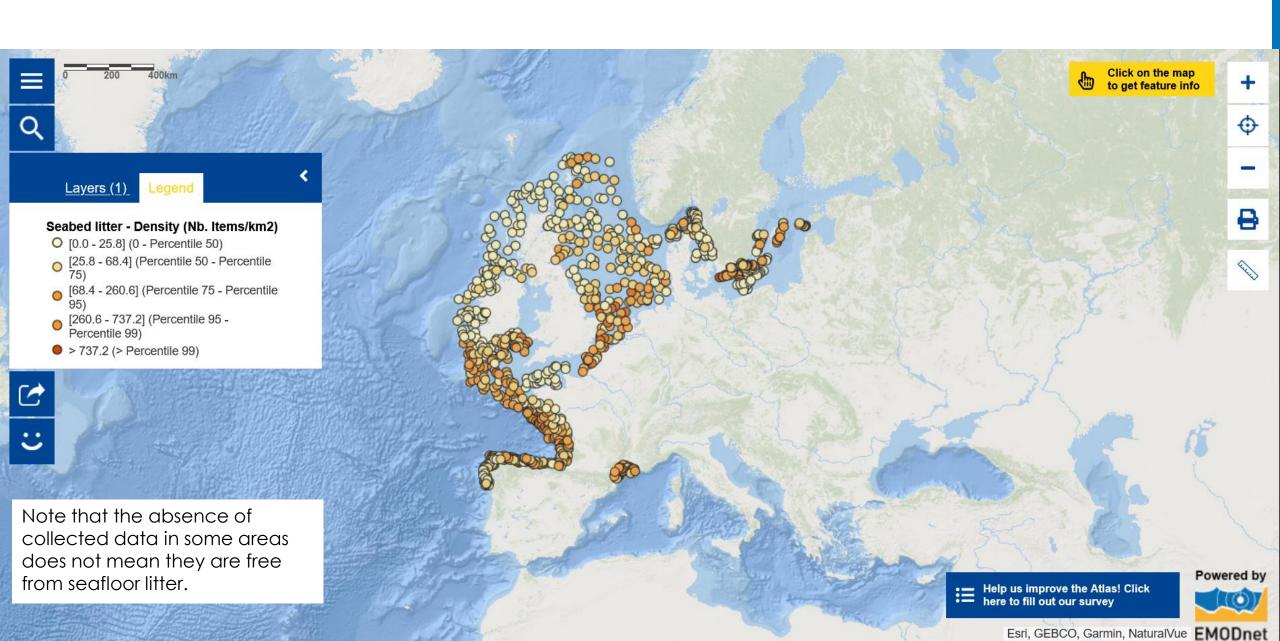
### **Litter on beaches**



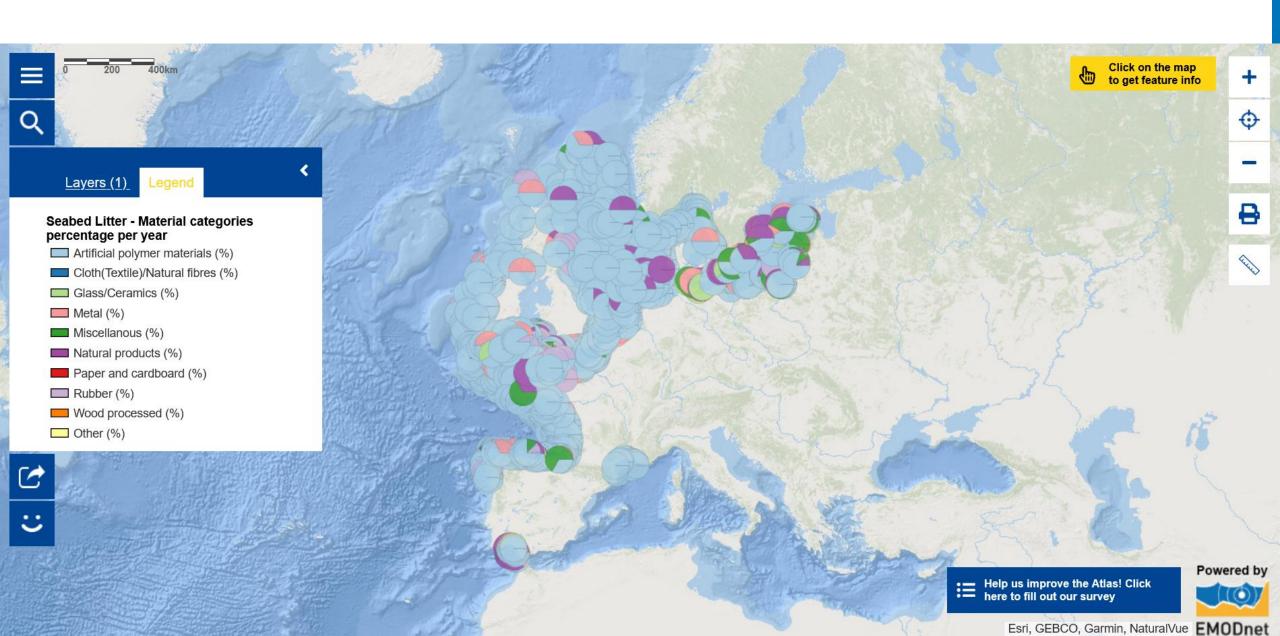
### **Litter on beaches**



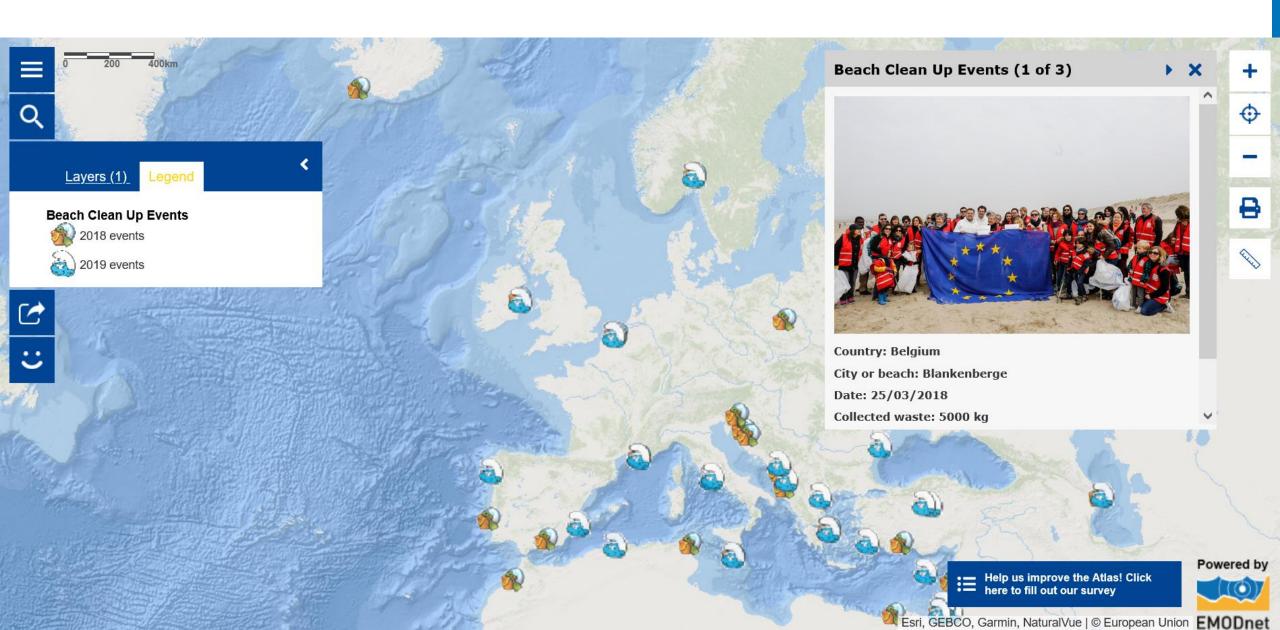
### ... and on the seabed



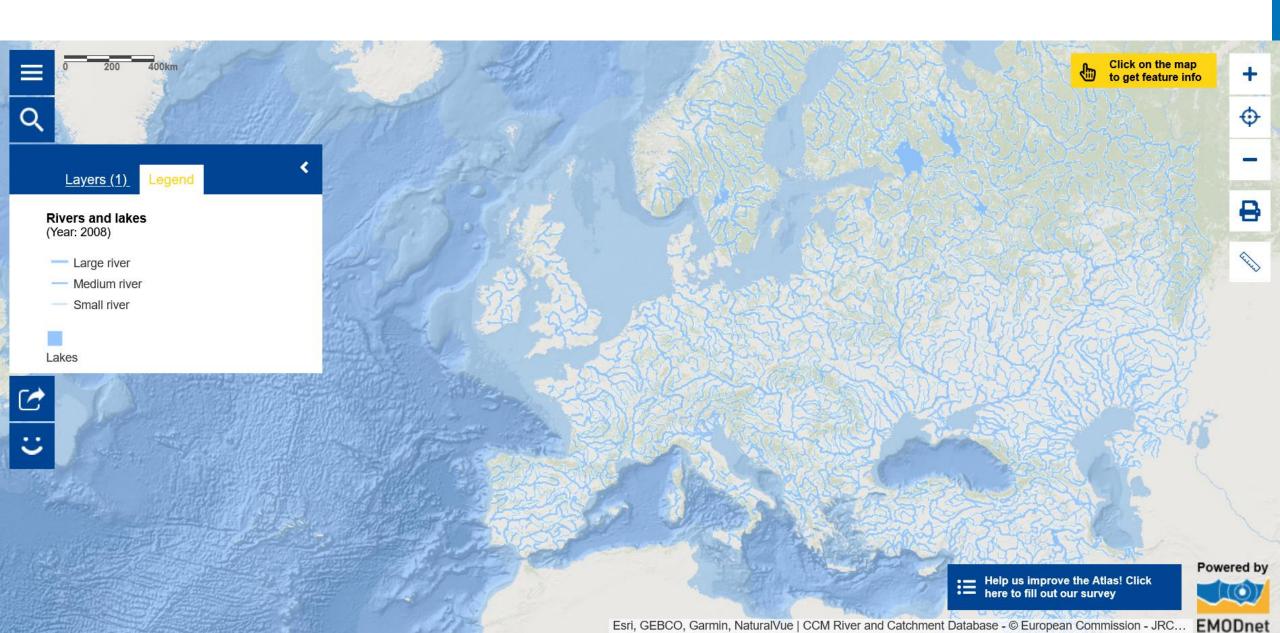
### ... and on the seabed



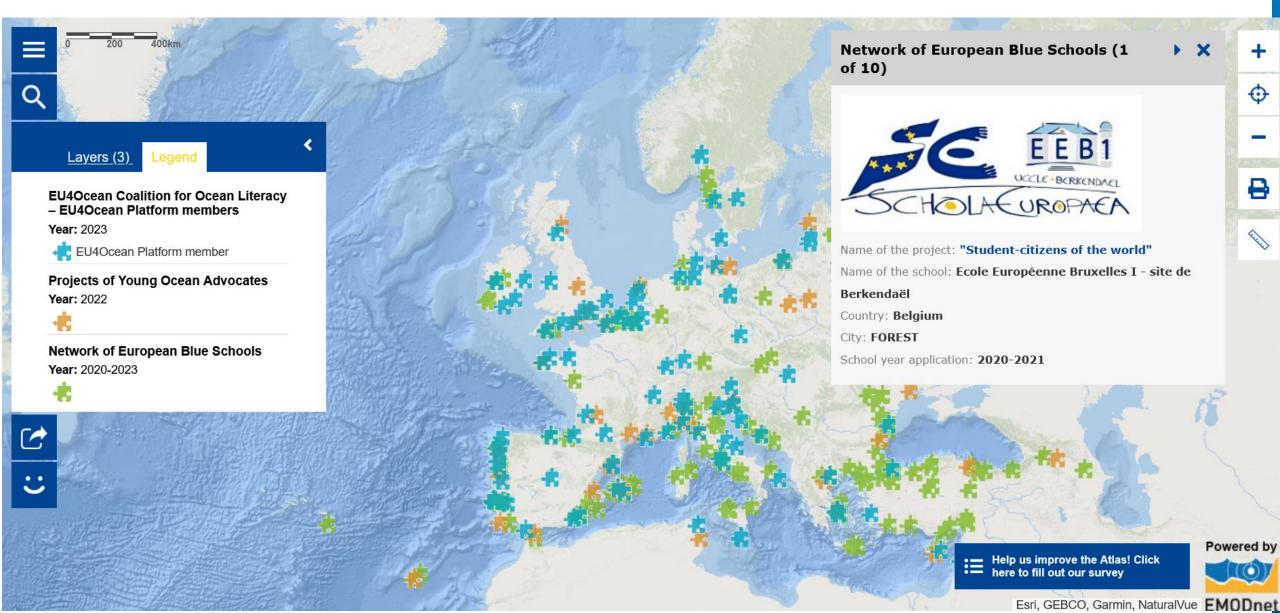
### Working together: #EUBeachCleanup



### Reducing marine litter starts on land



### Working together: #MakeEUBlue with #EU4Ocean



EU4Ocean: www.eu-oceanliteracy.eu

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

### **Examples: EU4Ocean Platform**



#### **Surfrider Foundation Europe**

http://www.surfrider.eu

France

Type of member: NGO

Expert(s): Yann Leymarie

Sea basin : Arctic Ocean, Atlantic Ocean (including North Sea), Baltic Sea, Black Sea, Mediterranean Sea, International (other sea-basins / ocean)



#### **Erasmus Maris**

http://erasmusmaris.eu

Belgium

Type of member: Network

Expert(s): Kamel Labibes; John Seghers; Silvia Ruiz

Garcia; Emmy Pequeur; Håkan Emteborg Sea basin : Atlantic Ocean (including North Sea),

1. Adande Ocean (including North Sea

Mediterranear



#### **ENALEIA**

https://enaleia.com/

Greece

Type of member : NGO Expert(s) : Lefteris Arapakis

Sea basin : Mediterranean Sea, International (other seabasins / ocean)

#### UTOPIA

https://utopia-earth.org/

France

Type of member : NGO

Expert(s) : Baptiste de La Gournerie Sea basin : Atlantic Ocean (including North Sea),

International (other sea-basins / ocean)

### **Examples: Youth4Ocean Forum**

#### **Clean Boating**

Christian Esteva



Country: Spain

**Sea basin**: Mediterranean Sea **Topics**: Healthy and clean ocean **Stage of project**: Stage 4: Growth

#### 4P SHORE & SEAS

Edgar Dusacre



Country: France

Sea basin: Atlantic Ocean (including North Sea)

Topics: Climate and the ocean, Healthy and clean ocean

Stage of project: Stage 4: Growth

#### **River Cleaner**

Martino Kuntze



Country: Italy

**Sea basin**: Mediterranean Sea **Topics**: Healthy and clean ocean **Stage of project**: Stage 2: R&D

#### **Refill Cyprus**

Eleni Kazelas

Country: Cyprus

Sea basin: Mediterranean Sea

Topics: Climate and the ocean, Healthy and clean ocean, Human

health

Stage of project: Stage 4: Growth

### **Examples: European Blue Schools**



#### "Student-citizens of the world"

City & Country: FOREST, Belgium Level of education: Primary school

School name: Ecole Européenne Bruxelles I - site de

Berkendaël

Thematic categories: Healthy Ocean



## RAISE AWARENESS ABOUT THE PLASTIC WASTE IN THE BALTIC SEA.

City & Country: Alytus, Lithuania Level of education: Secondary school School name: Alytus Jotvingiai gymnasium

Thematic categories: Healthy Ocean. Ocean and Climate

#### Coastwatch

City & Country: Den Helder, Netherlands

Level of education: junior

School name: Scholen aan Zee

**Thematic categories**: Healthy Ocean, Ocean and Climate,

biodiversity, Maritime Culture

#### Let's clean up Europe

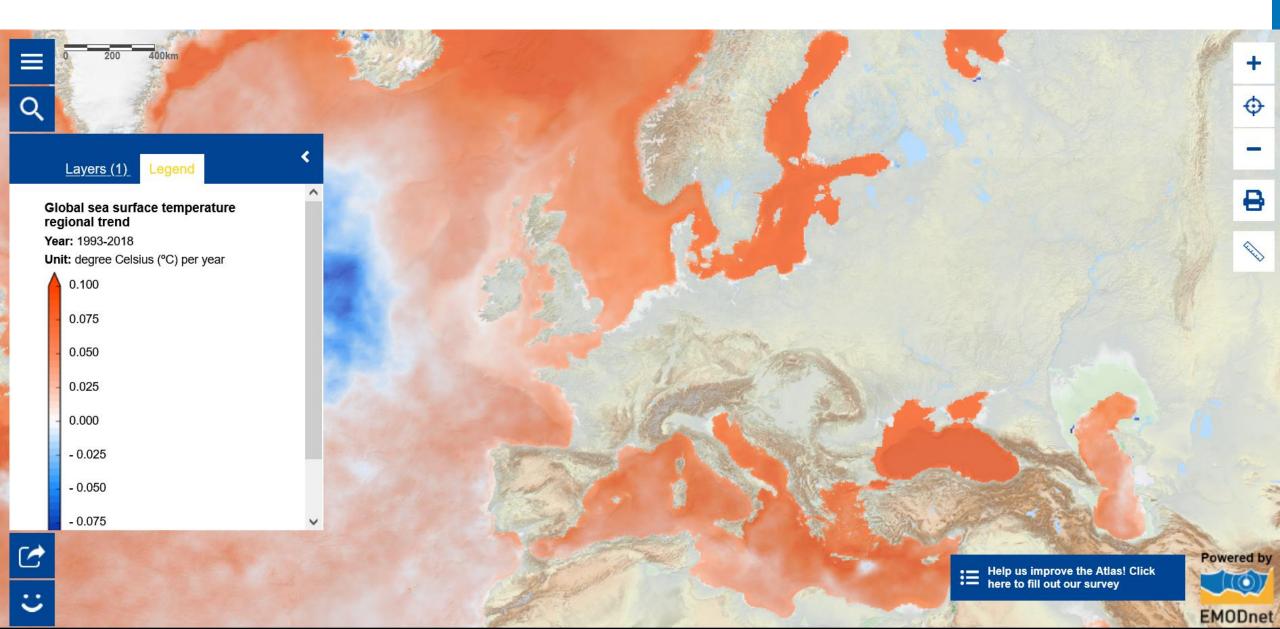
City & Country: PALMA DE MALLORCA, Spain

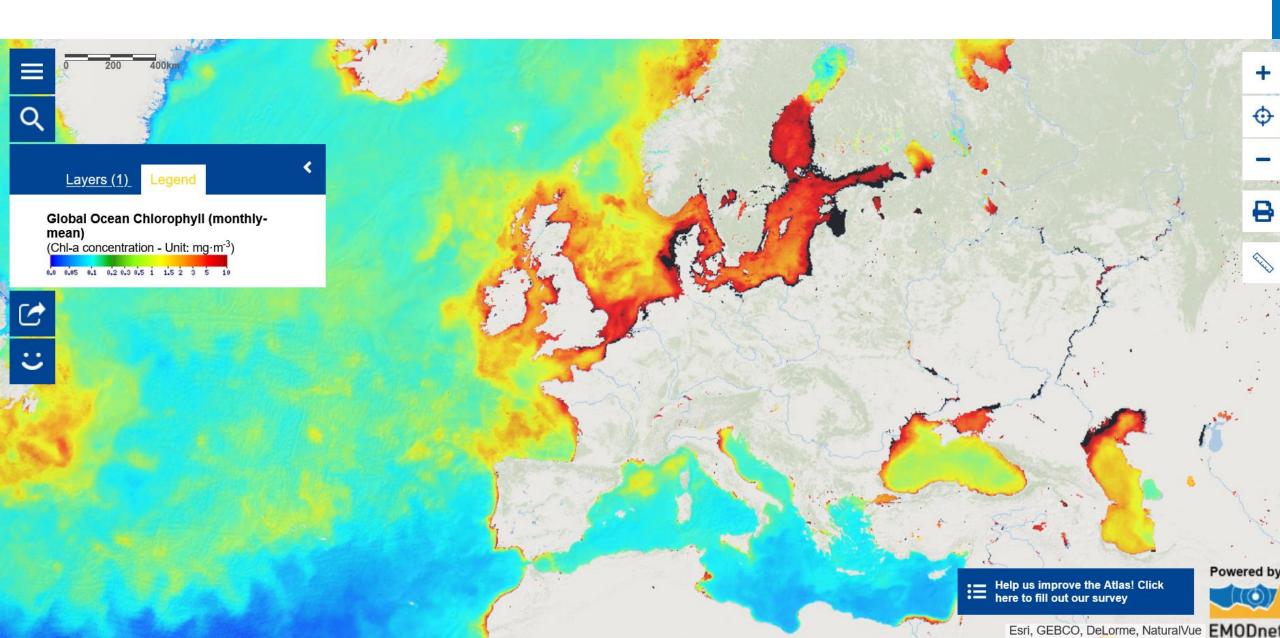
Level of education: junior

School name: COL·LEGI PEDRO POVEDA

Thematic categories: Healthy Ocean, biodiversity,

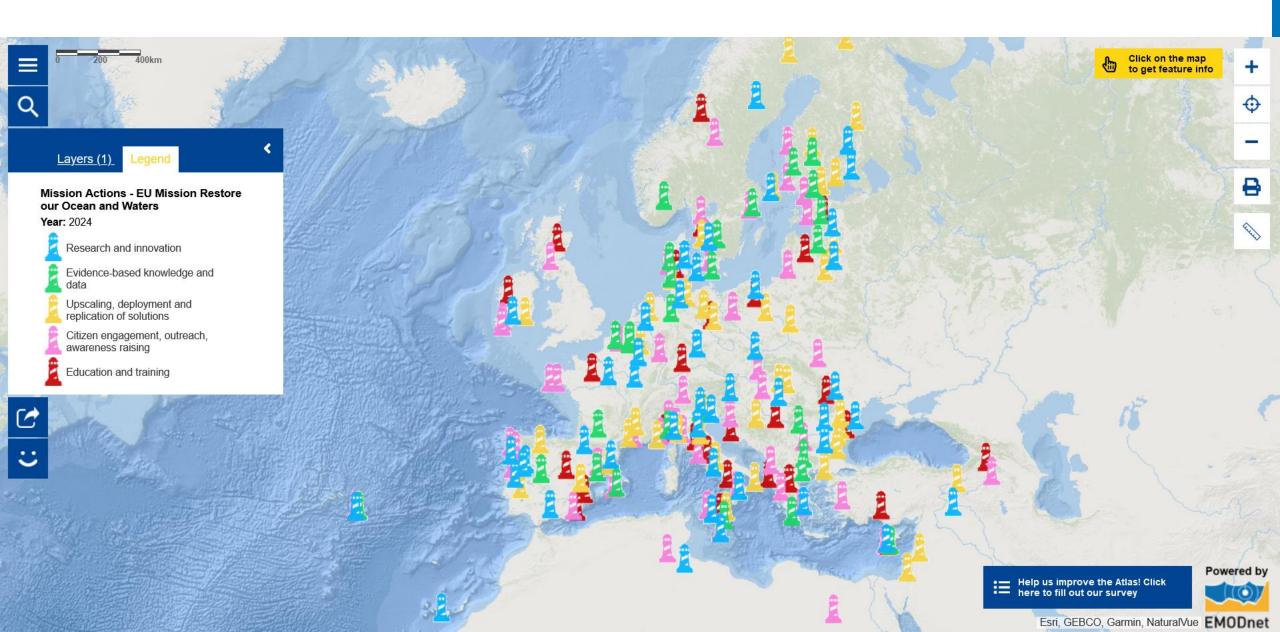
Maritime Culture



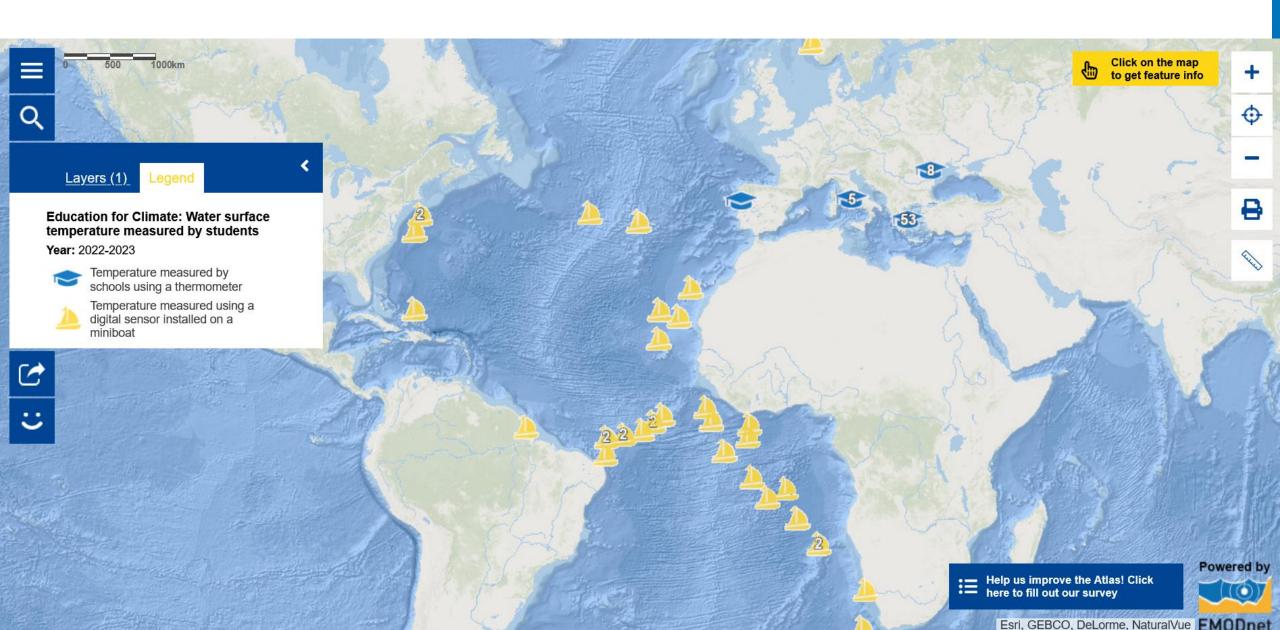


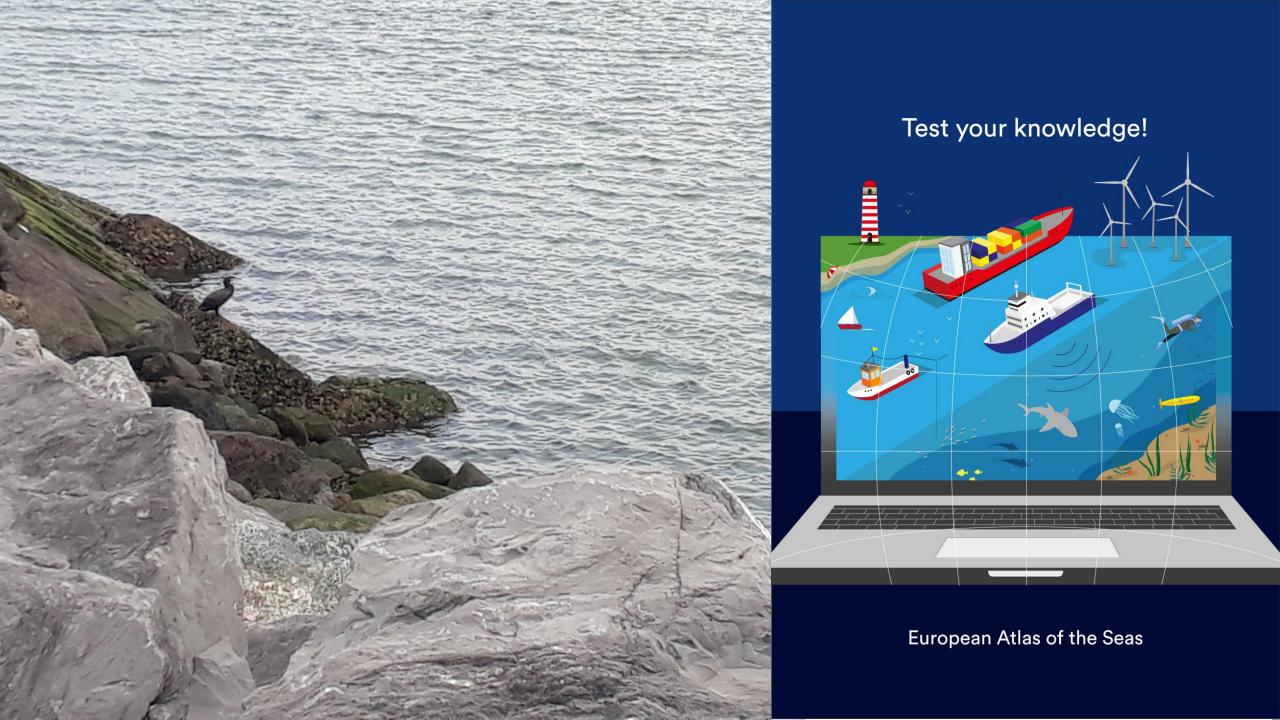






## First citizen science map in the Atlas ...





### Climate

Sea level is rising as a result of ocean heating and land ice mass loss.

By how much does the sea level rise per year (1993 -2019 trend)?

3,3 mm

50 mm

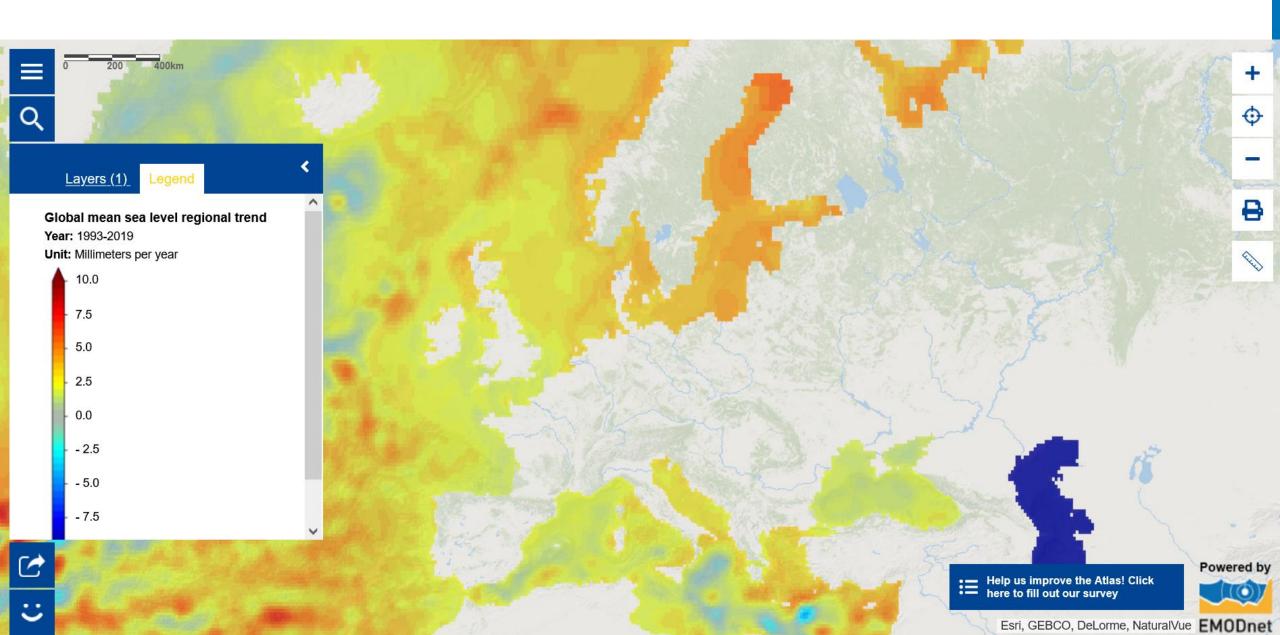
<u>30 cm</u>



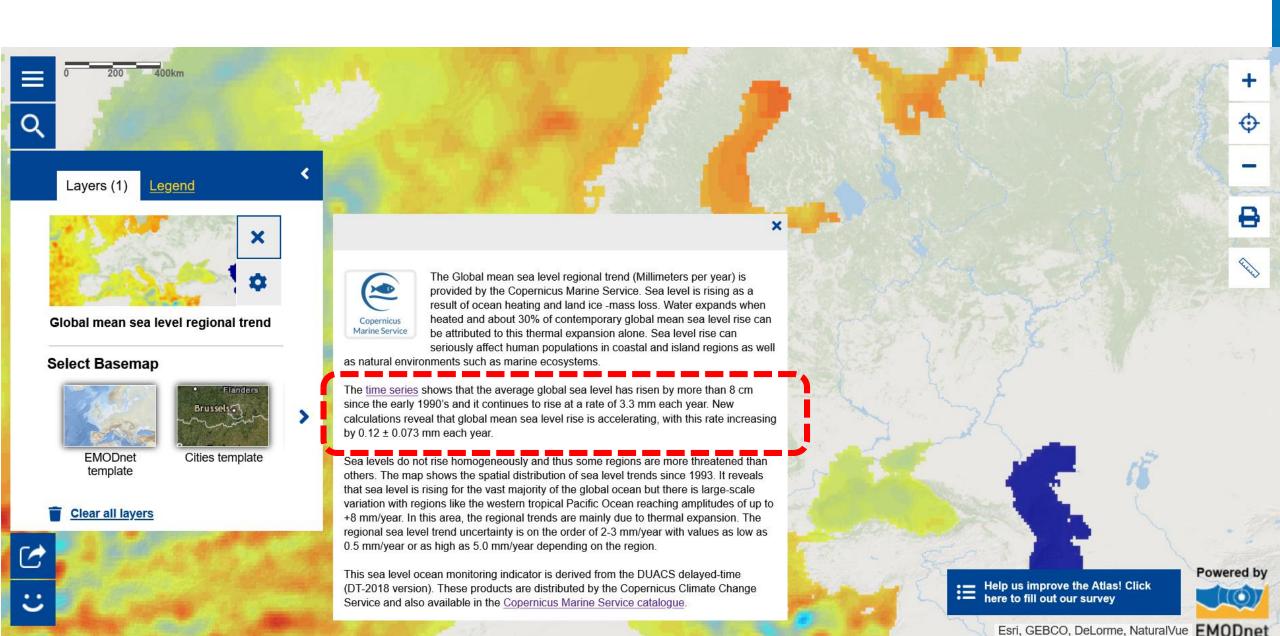




## Climate: 3,3 mm per year



## Climate: 3,3 mm per year



### Mean underwater depth

What is the greatest depth on the European map showing mean underwater depth?

<u>1,000 m</u>

<u>6,000 m</u>

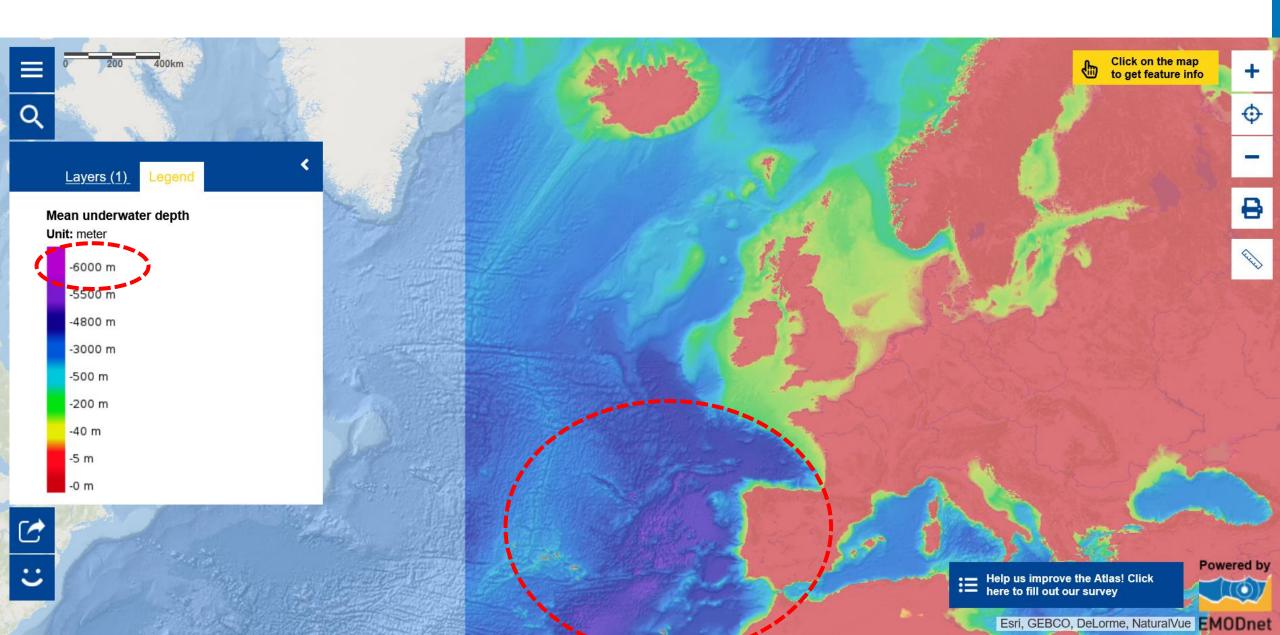
<u>11,000 m</u>







## Underwater depth: 6,000 m



### Underwater depth in the world...

- The estimate of the average depth of the ocean basins is 3,682 m.
- The deepest known spot on the planet is **Challenger Deep** in the Mariana Trench, east of the Philippines, at **11,034 m**.

(Bron: <a href="https://oceanliteracy.unesco.org/how-deep-is-the-ocean/">https://oceanliteracy.unesco.org/how-deep-is-the-ocean/</a>)





### **Marine litter**

In 2019, a beach cleaning event was organised in Blankenberge (Belgium). How much waste was collected?

300 kg

<u>5,000 kg</u>

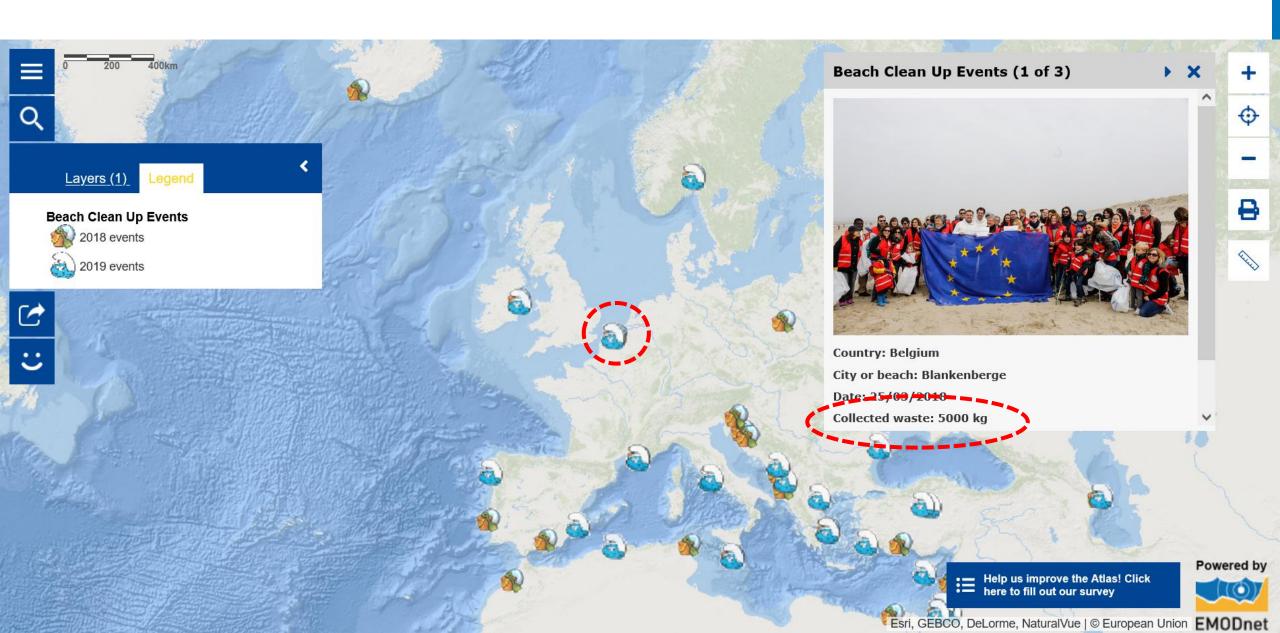
9,000 kg







## Marine litter: 5,000 kg



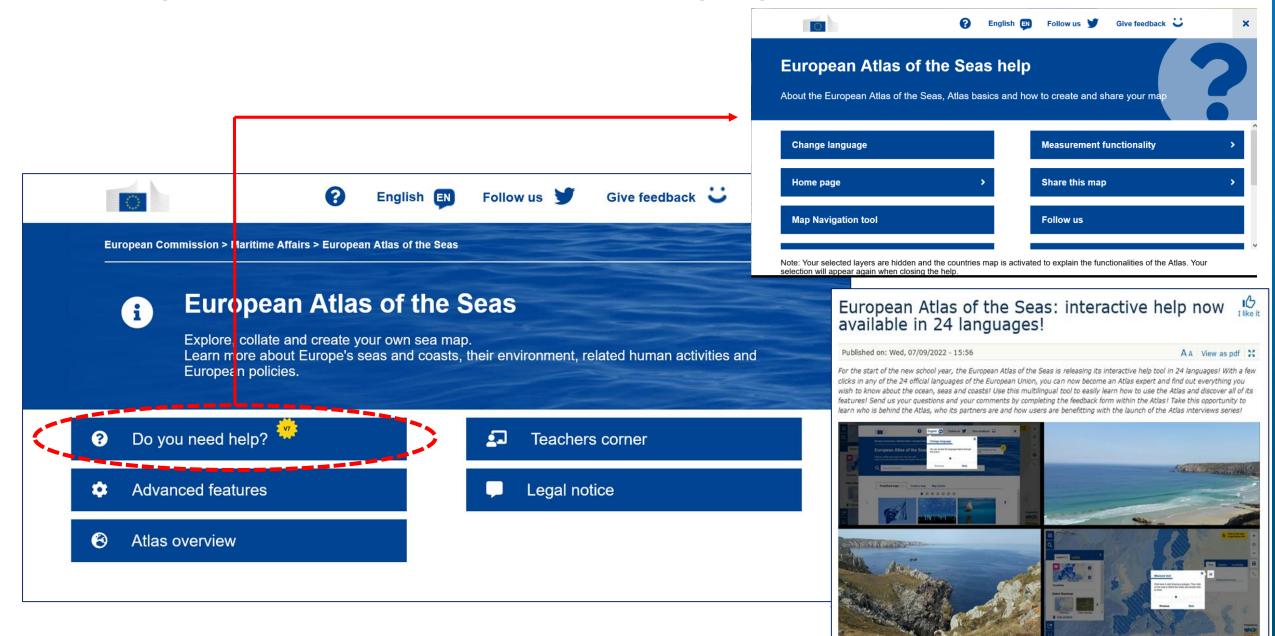




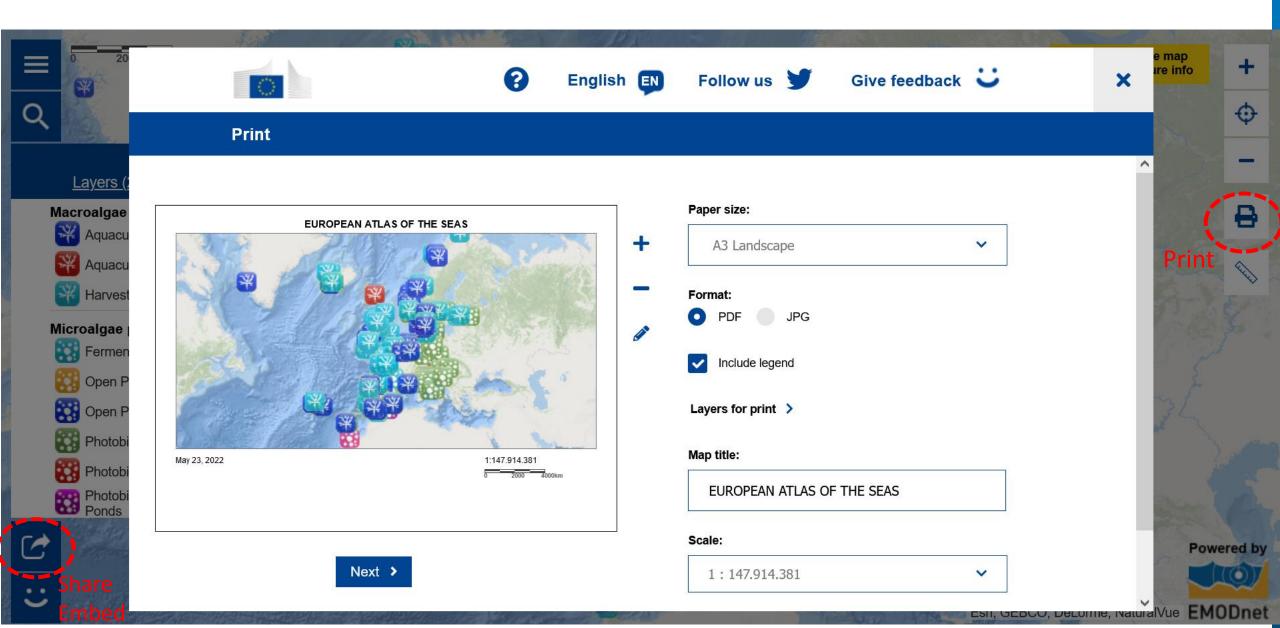


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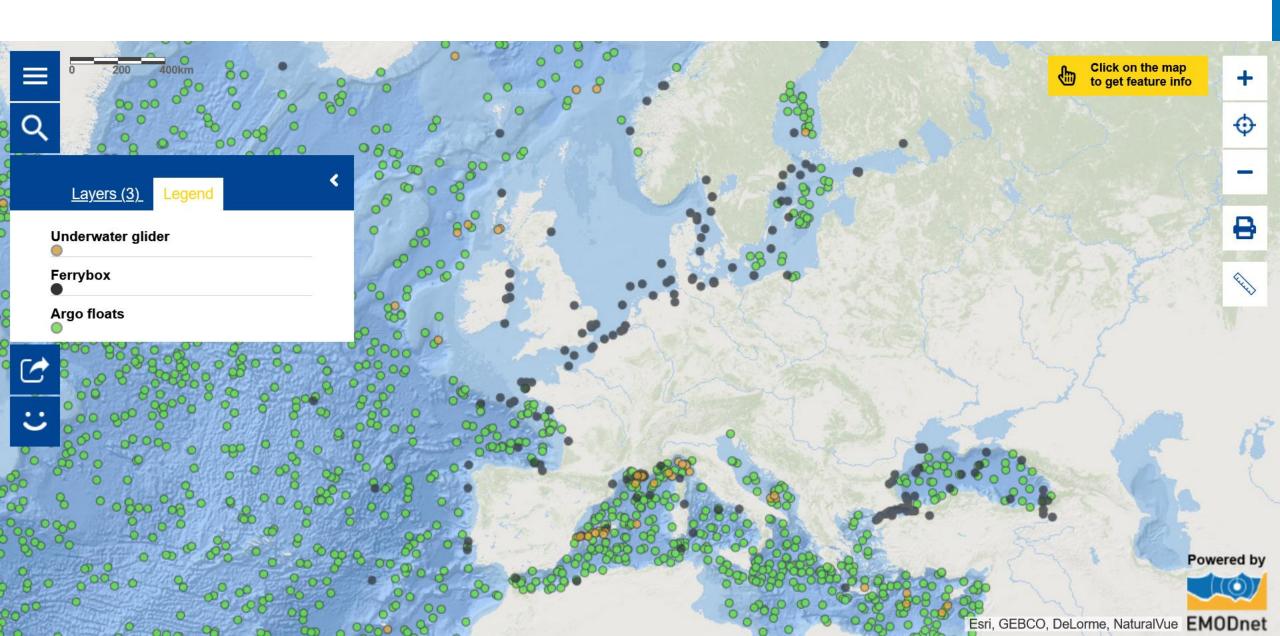
## Learning to use the Atlas' tools in 24 languages!



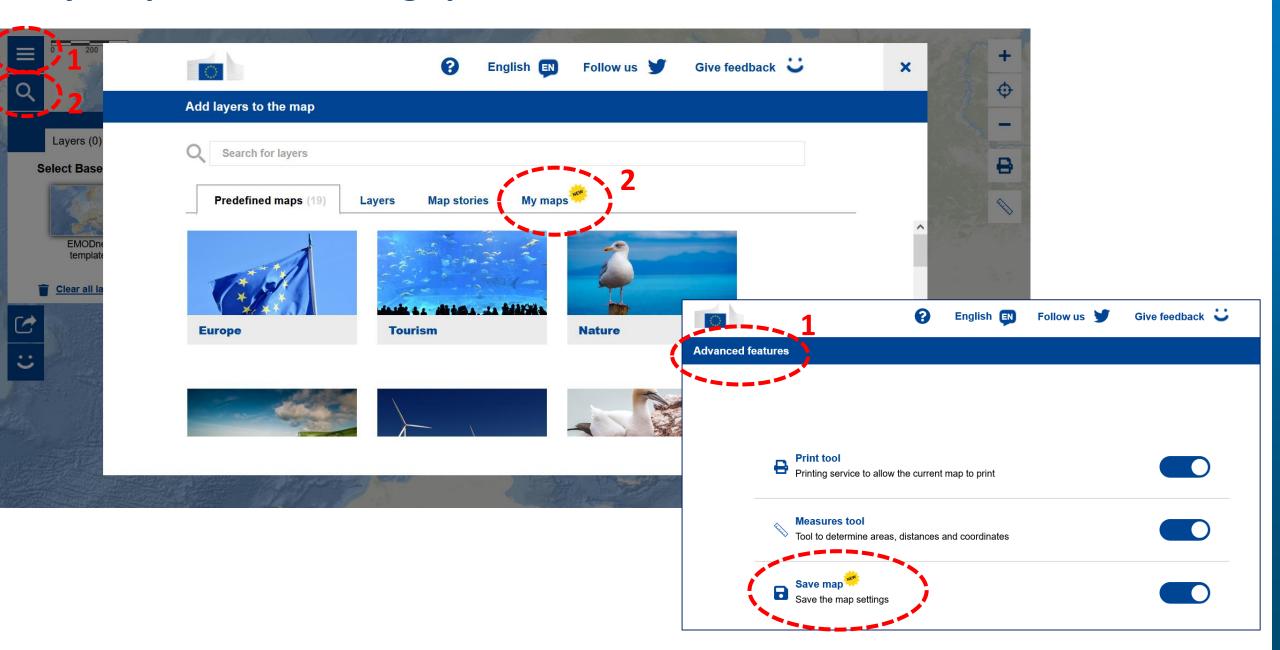
## Integrating your map in your work with the Atlas' tools



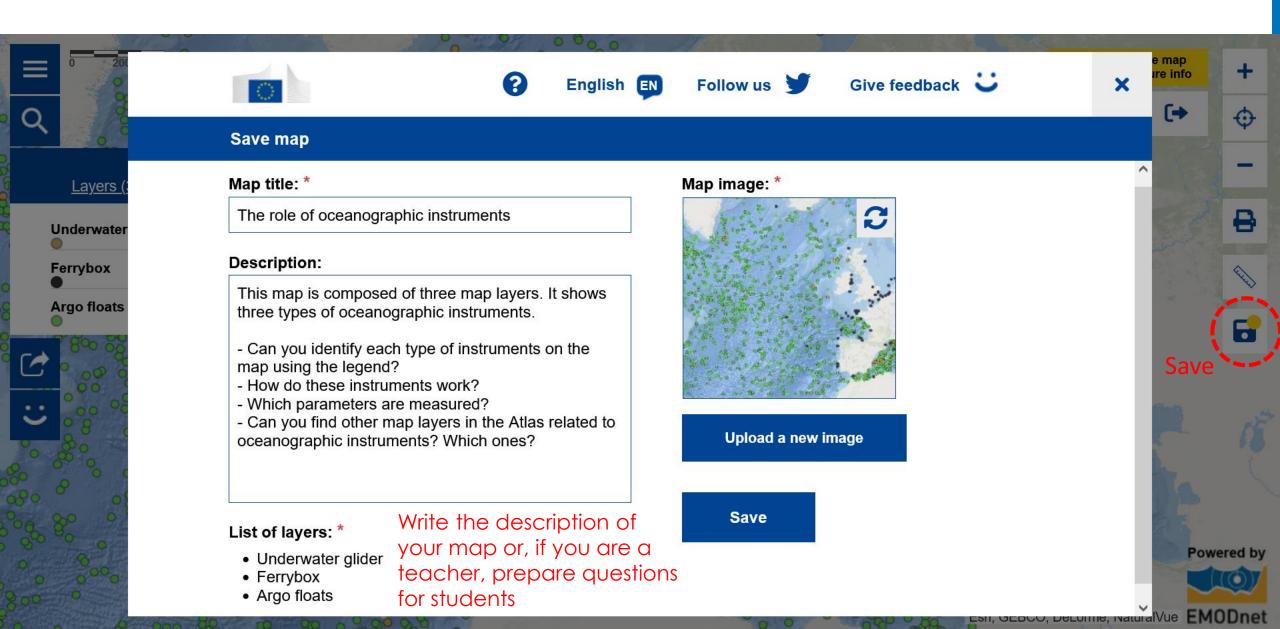
## My Maps: Create your own working space in the Atlas and save your maps!



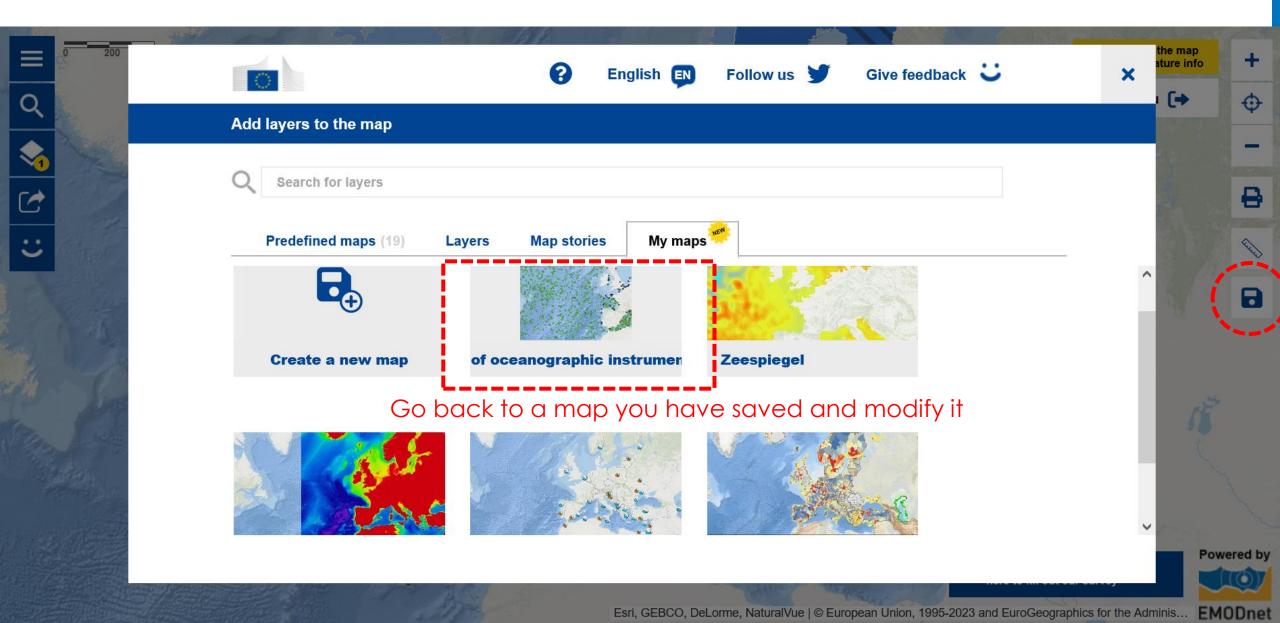
## My Maps: Your working space in the Atlas!



## My Maps: Your working space in the Atlas!



## My Maps: Your working space in the Atlas!



### Video tutorials and EMODnet Virtual exhibition







Visit the virtual exhibition: <a href="https://players.cupix.com/p/WtViUgBQ">https://players.cupix.com/p/WtViUgBQ</a>

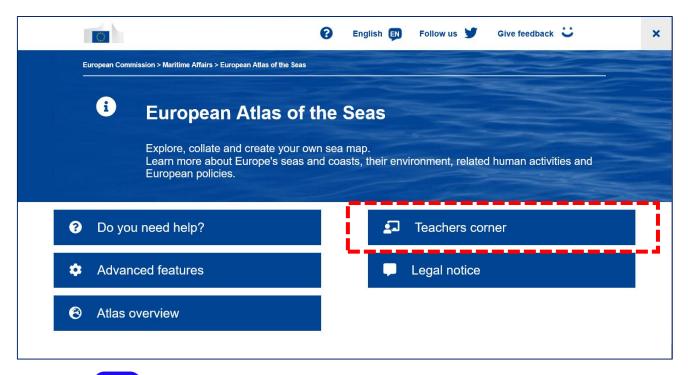




European Marine Observation and Data Network (EMODnet) YouTube Channel - European Atlas of the Seas Playlist

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

## The Teachers Corner: ready-to-use map-based activities











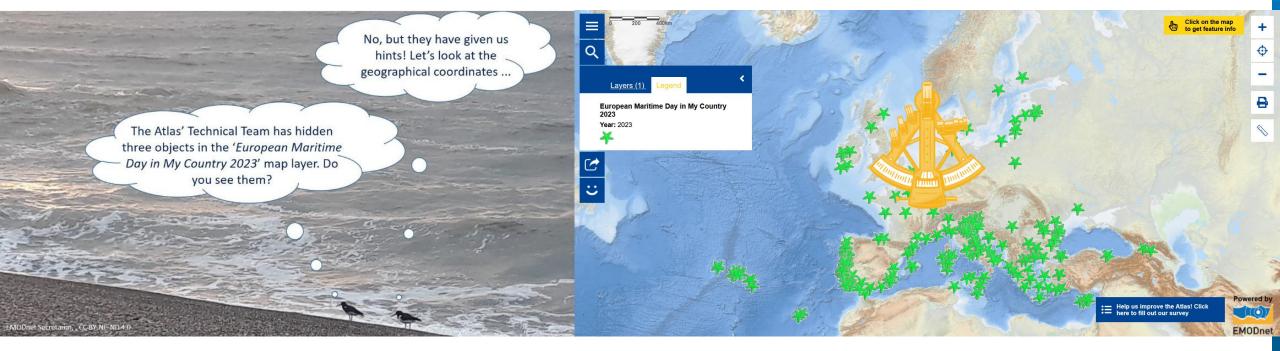
- ✓ Exercises
- ✓ Quiz
- ✓ Games
- ✓ Posters
- ✓ Past workshops -presentations



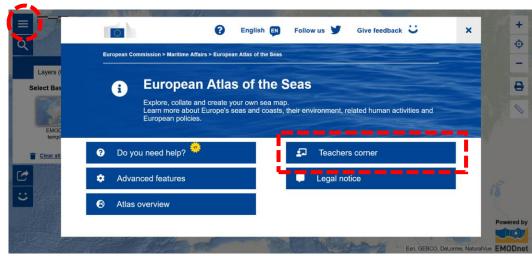


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## Play the Atlas Geocaching Game in the Teachers Corner!



Latitude	Longitude	Object found	Notes
53.430000	-7.930000		Country:
			Event:
40.63209851	22.72994803		Country:
			Event:
59.329444	18.068611		Country:
			Event:
Common theme to all objects			





#### **European Atlas of the Seas**

@EuropeAtlasSeas

@EU\_Commission tool to explore, collate & create marine maps in 24 languages!
Learn more about seas & coasts. Account managed in cooperation with
@EU\_MARE.

1,444 Following 2,838 Followers







## Dive in and explore the European Atlas of the Seas!

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



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# Thank you for participating!







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