The European Atlas of the Seas

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

Education for Climate Coalition Challenge

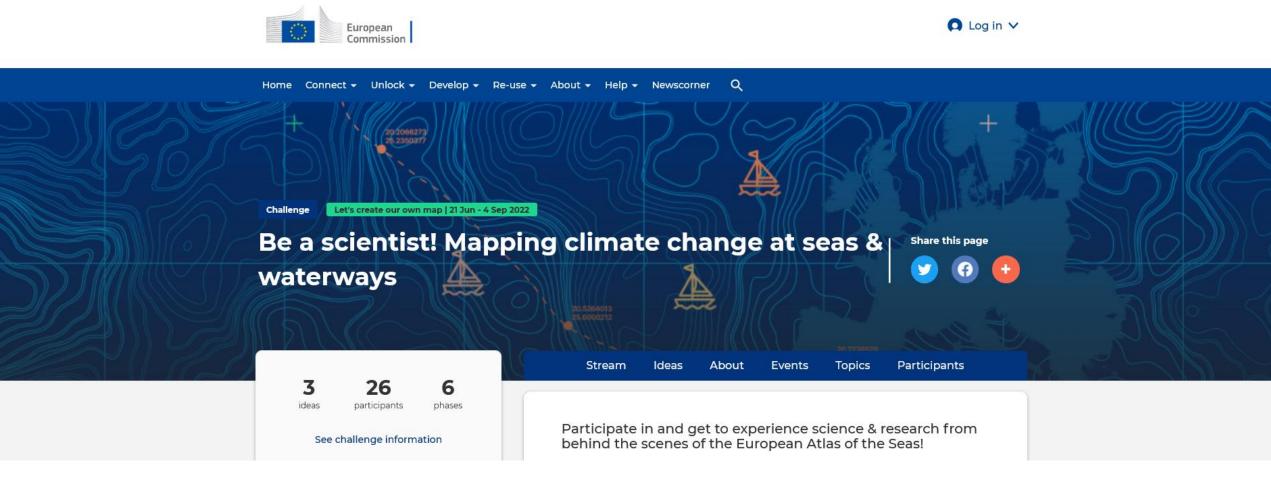
Be a scientist! Mapping climate change at seas & waterways







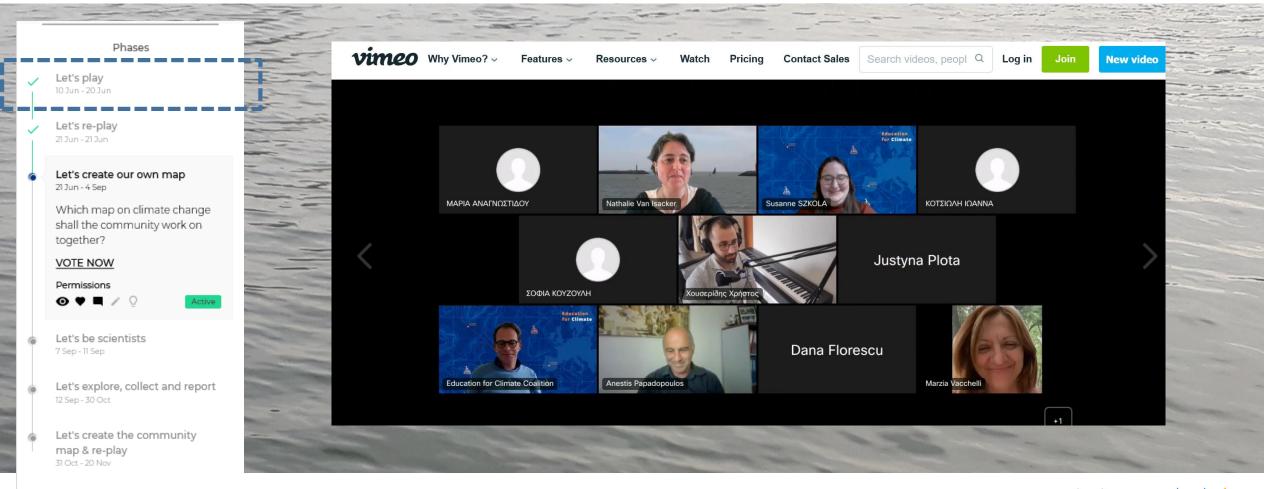
Objectives of the challenge



New <u>challenge</u> launched for schools across Europe to create the first citizen science map layer in the European Atlas of the Seas



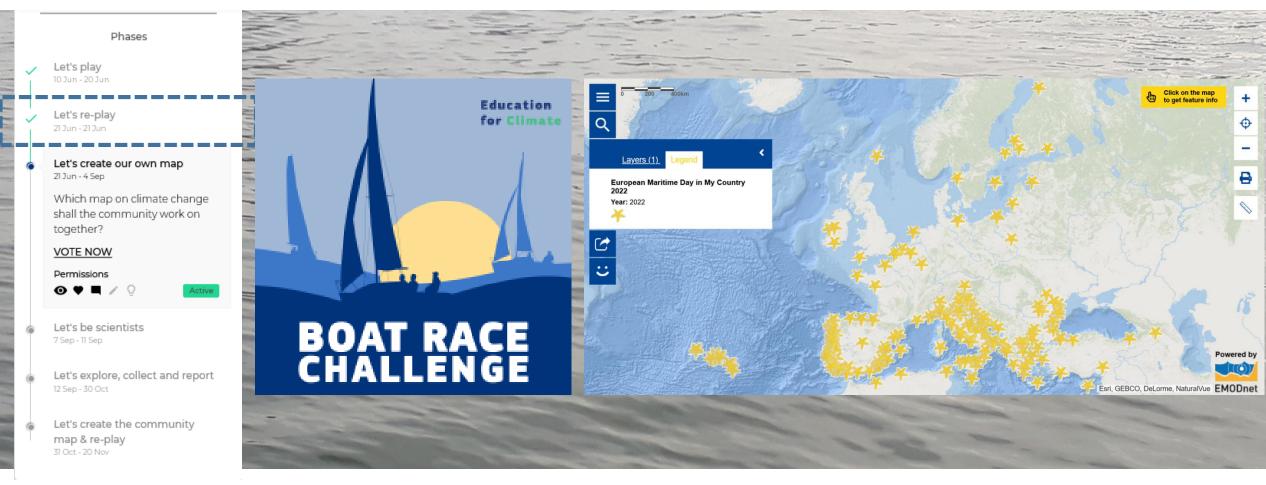




Workshop with teachers (10 June 2022)







Workshop with teachers and students (21 June 2022)



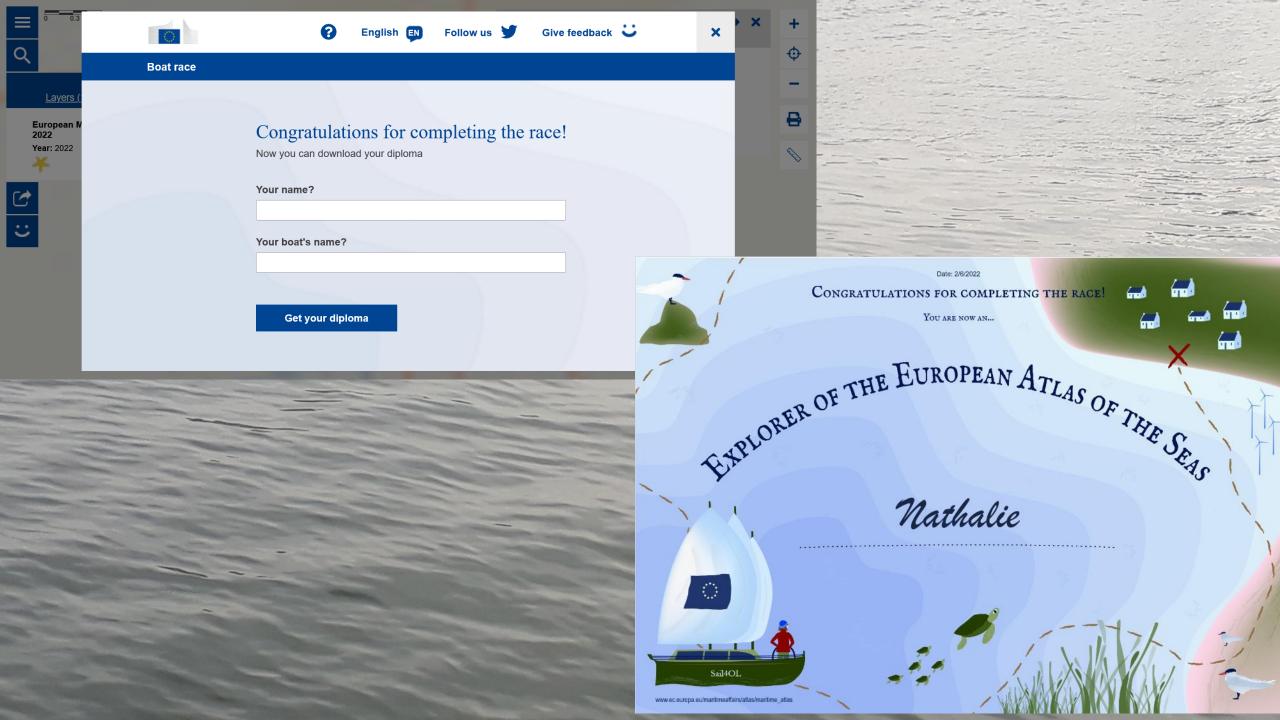




Workshop with teachers and students (21 June 2022)







What is the European Atlas of the Seas?











Nature

Sea life

Transport









Sea bottom

Energy

Security



Fishing stocks and quota



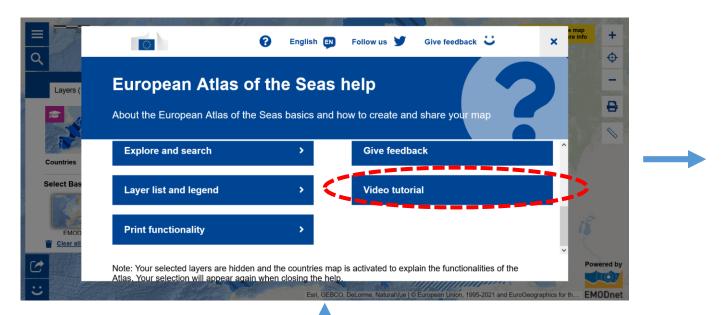




- Interactive learning tool
- Initiative of the European Commission
- 275 interactive map layers
- Identified data sources
- **Custom maps**
- Easily accessible
- 24 official languages
- Print & embed tools







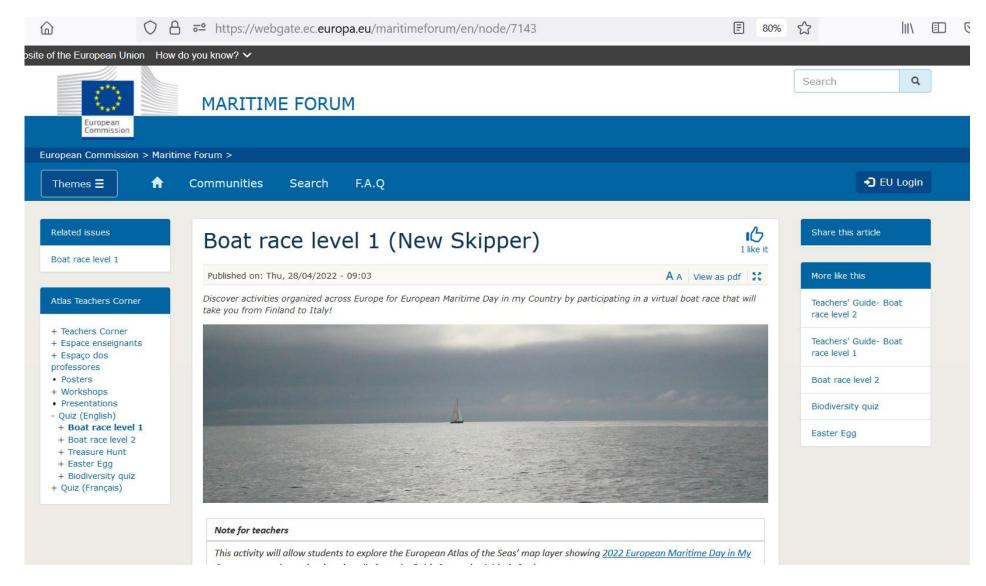




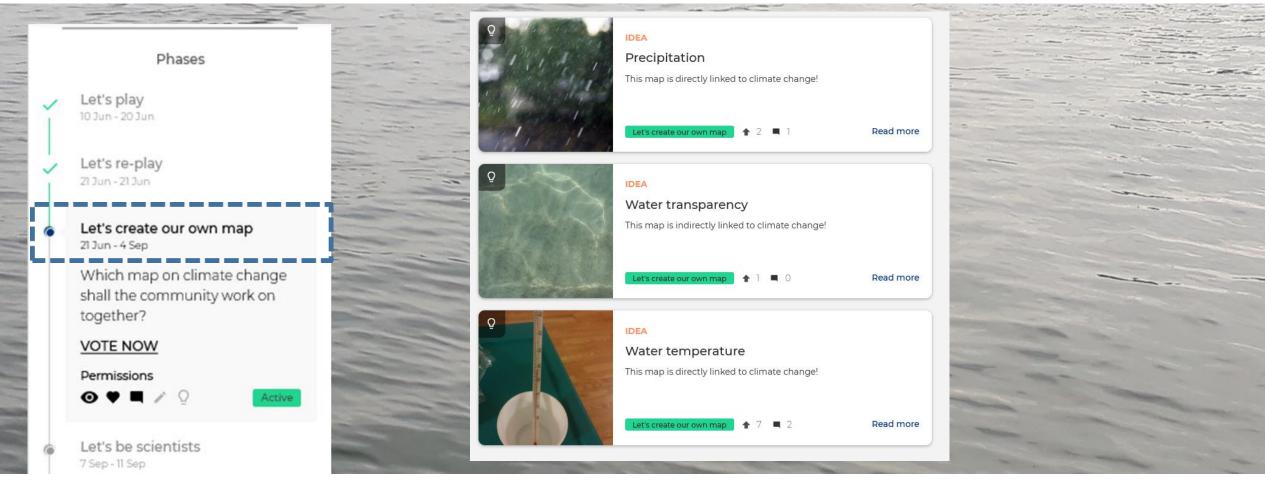




Missed it? Look at the guide to the boat race!



https://webgate.ec.europa.eu/maritimeforum/en/node/7143

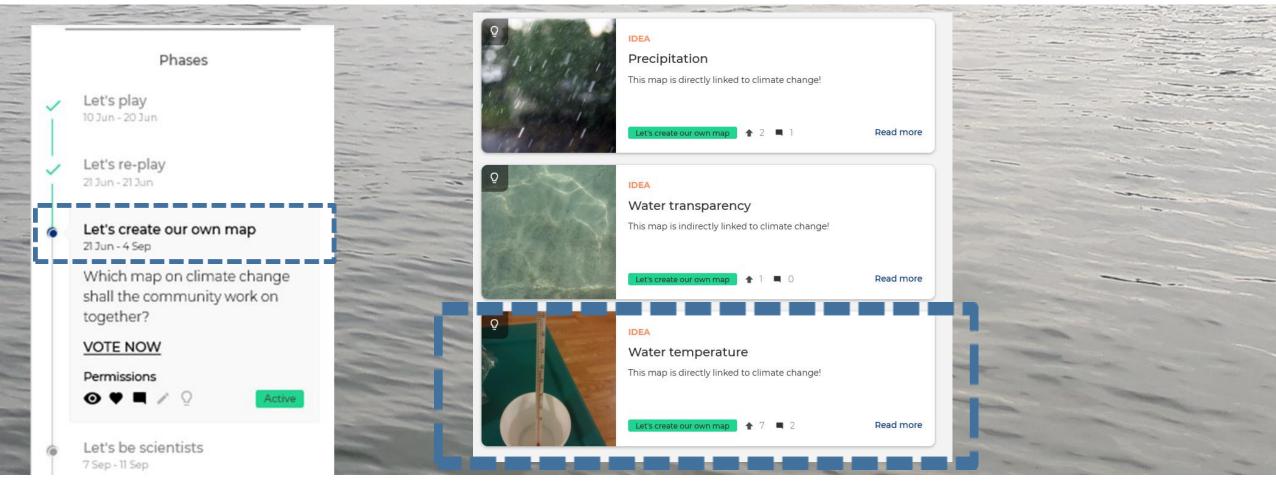


Teachers' online votes to select the topic of the map that will be developed





Which map has the community chosen?







Next step ...

Phases



10 Jun - 20 Jun

Let's re-play

21 Jun - 21 Jun

Let's create our own map

21 Jun - 4 Sep

Which map on climate change shall the community work on together?

VOTE NOW

Permissions









Let's be scientists

7 Sep - 11 Sep

Let's explore, collect and report

12 Sep - 30 Oct

Let's create the community map & re-play

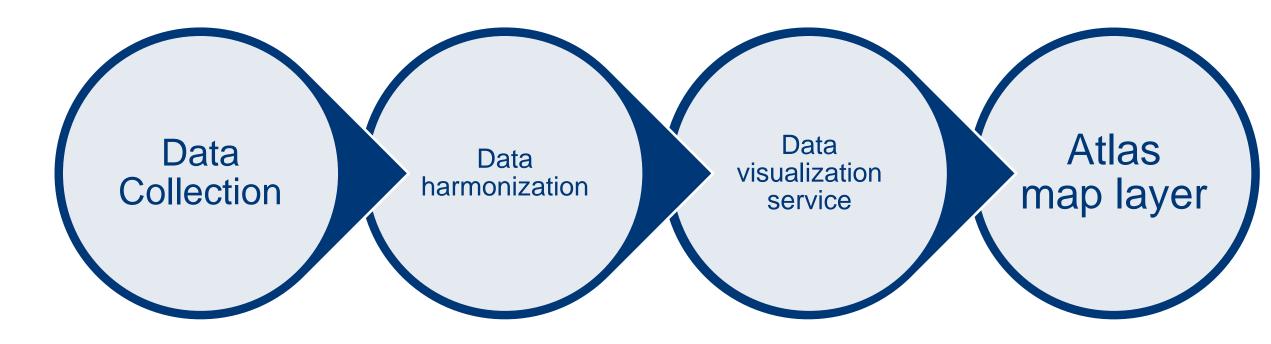
31 Oct - 20 Nov







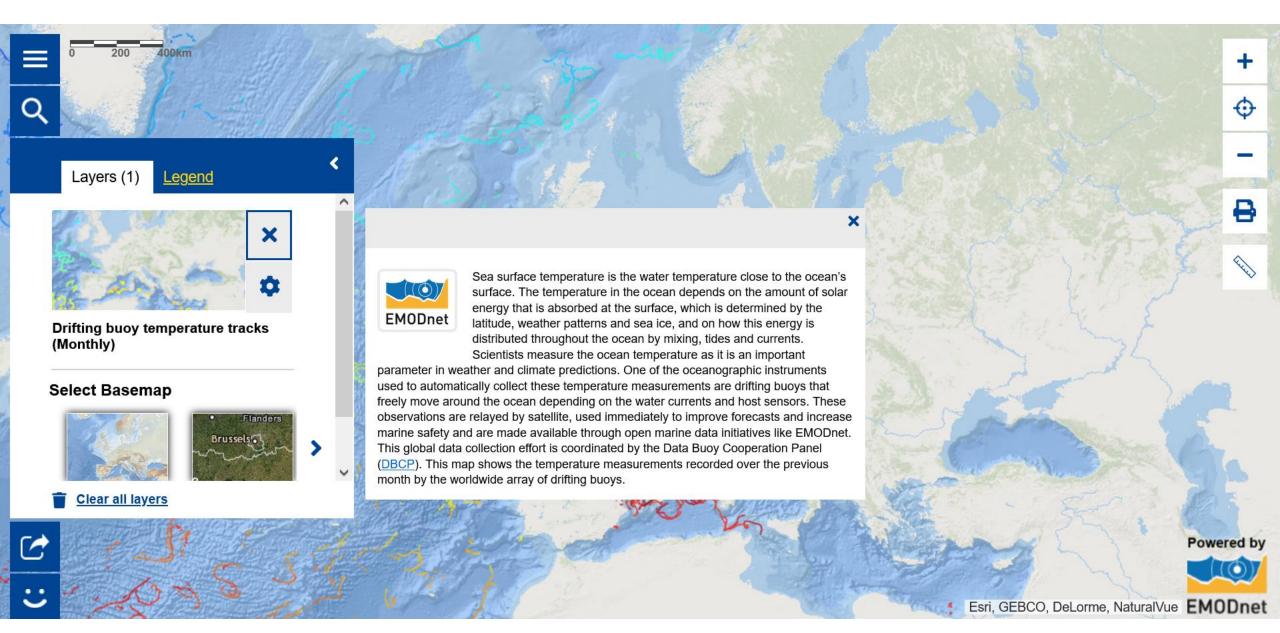
How are maps developed?



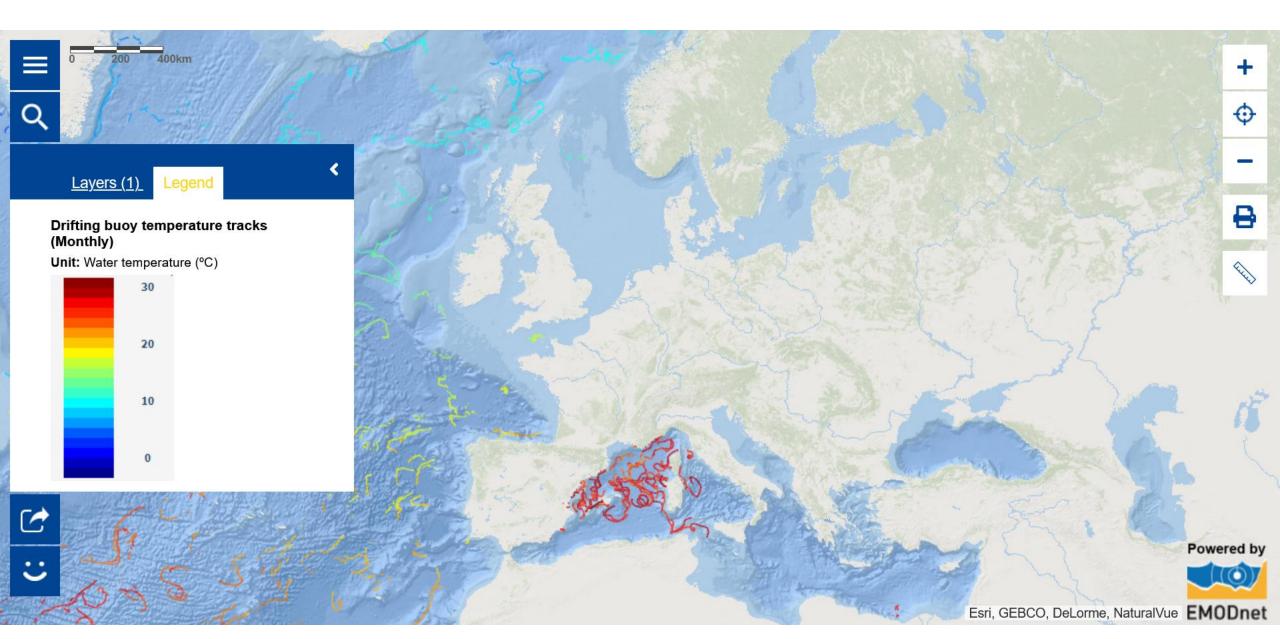
- Each map layer in the Atlas is the result of **several steps**.
- Each step requires different competences and skills.
- The maps in the Atlas are the product of **teamwork**. Experts across Europe are involved in the different steps and are working together to deliver **easy access to high quality information** on the ocean and seas.



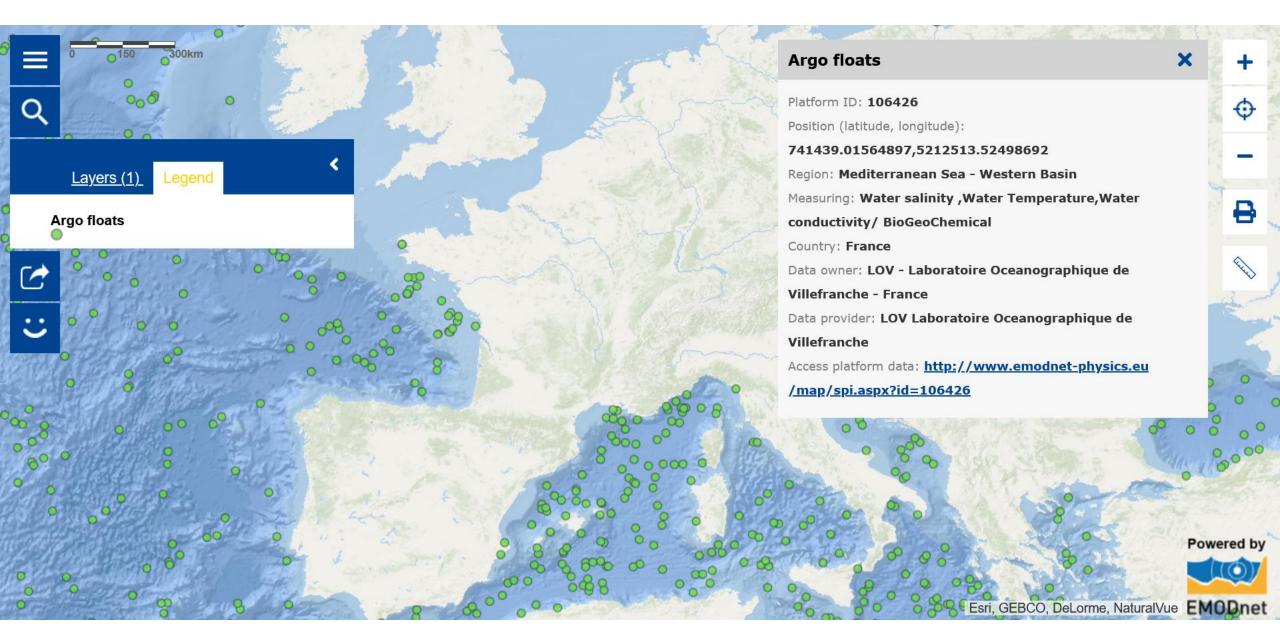




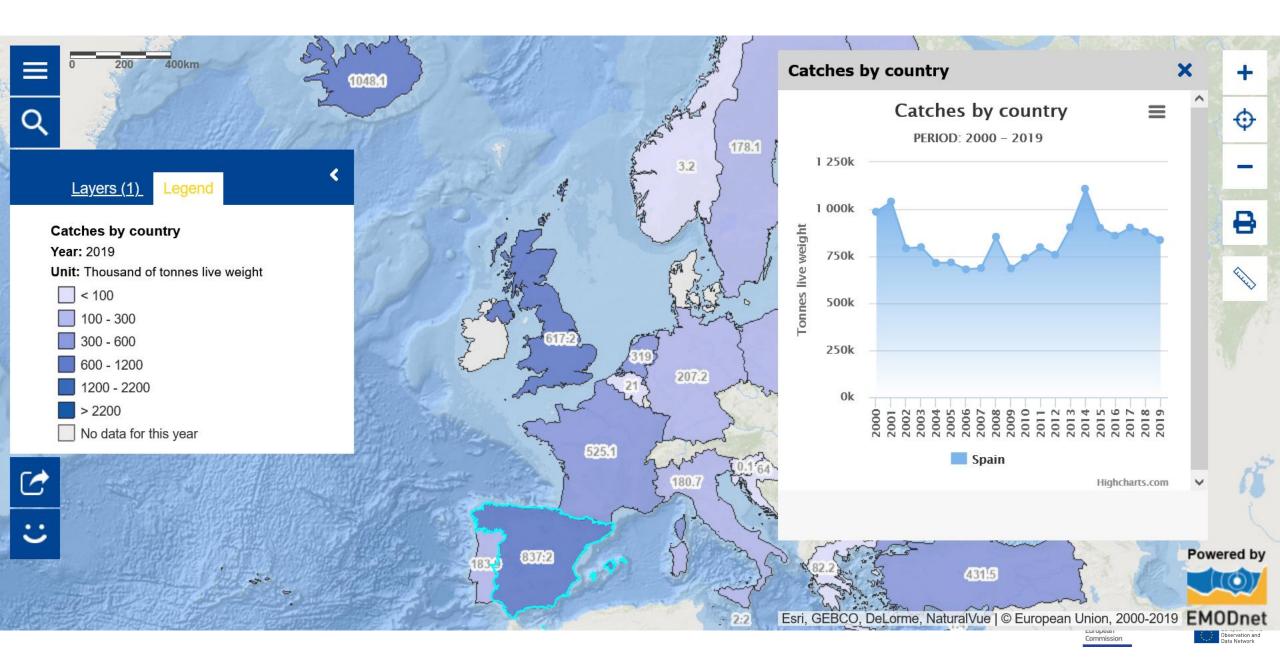
www.european-atlas-of-the-seas.eu



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



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



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

What do we need to develop the new map?

- Data from measurements that you have made: water surface temperature
- Information about the collected data
 - ✓ Where was the measurement made?
 - ✓ When was the measurement made?
 - ✓ **How** was the measurement made?
 - ✓ Who is the data provider?

We need to ensure that data is

- Correct (verified)
- Coherent (e.g., all data is provided in the same unit)
- Complete





FAIR principe

Findable, accessible, interoperable and re-usable

CARE principle

Collective benefit, authority to control, responsibility and ethics





Key guidelines to collecting data

Measurements could be made

- in different locations
- at different times

Information to provide for the map

- Name of the school that provided the data and hyperlink to the school's website (optional)
- Geographical coordinates of the location where the measurement was made
- Water body in which the measurement was made (e.g.; sea, river, lake, pond,...)
- Municipality and country of the location where the measurement was made
- Picture of the location where the measurement was made (optional)
- Date on which the measurement was made
- Time at which the measurement was made
- Measured data water surface temperature in the correct unit for the map: degrees Celsius
- How the measurement was made

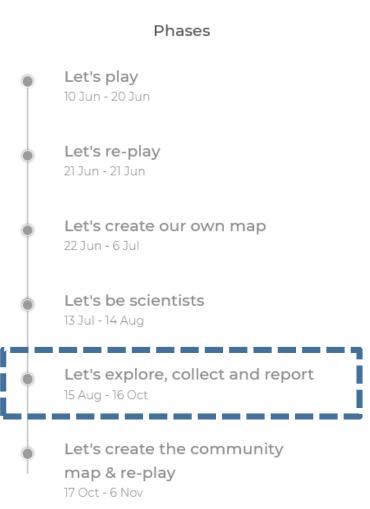
Additional information not included in the map

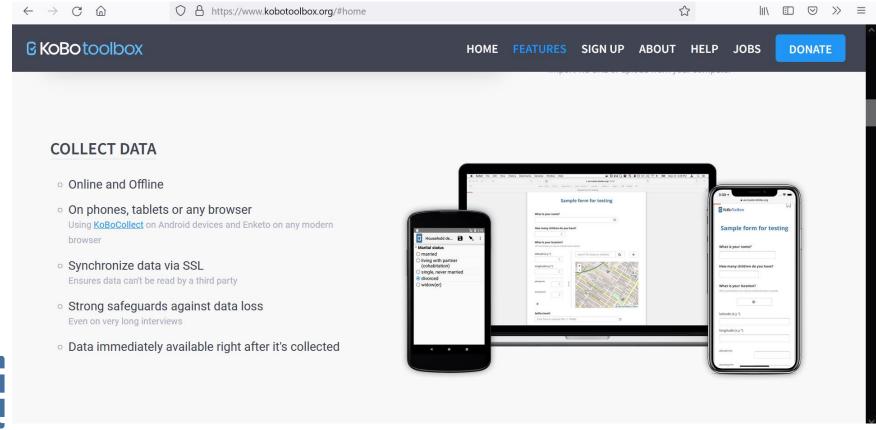
E-mail address of the teacher/school in case we have questions about the data





How to collect and report the data needed for this map together?









Brainstorming: Which school activities to run around exploring, collecting and reporting these data?

- What can we learn by collecting this data?
- What challenges could we face when collecting this data? How can we resolve this?
- How do we expect this data to evolve in the future due to climate change? What are the consequences of this?
- How can we share our findings with others?





Brainstorming: Which school activities to run around exploring, collecting and reporting these data?







Follow the European Atlas of the Seas on Twitter

















© European Union 2022

Unless otherwise noted the reuse of this presentation is authorised under the <u>CC BY 4.0</u> license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.

Slides 1 and 25: Source of pictures - Nathalie Van Isacker, <u>CC BY-NC-ND 4.0</u>

Slides 2 and 4: Source of illustrations – Joint Research Center, All rights reserved

Slides 4 and 14-17: Maps from the European Atlas of the Seas

Slides 3 and 5: Print screens of online events organised by the Education for Climate Community, All rights reserved

Slide 6: Source of illustration: Bilbomática, All rights reserved

Slide 21: KoBotoolbox website print screen, All rights reserved



