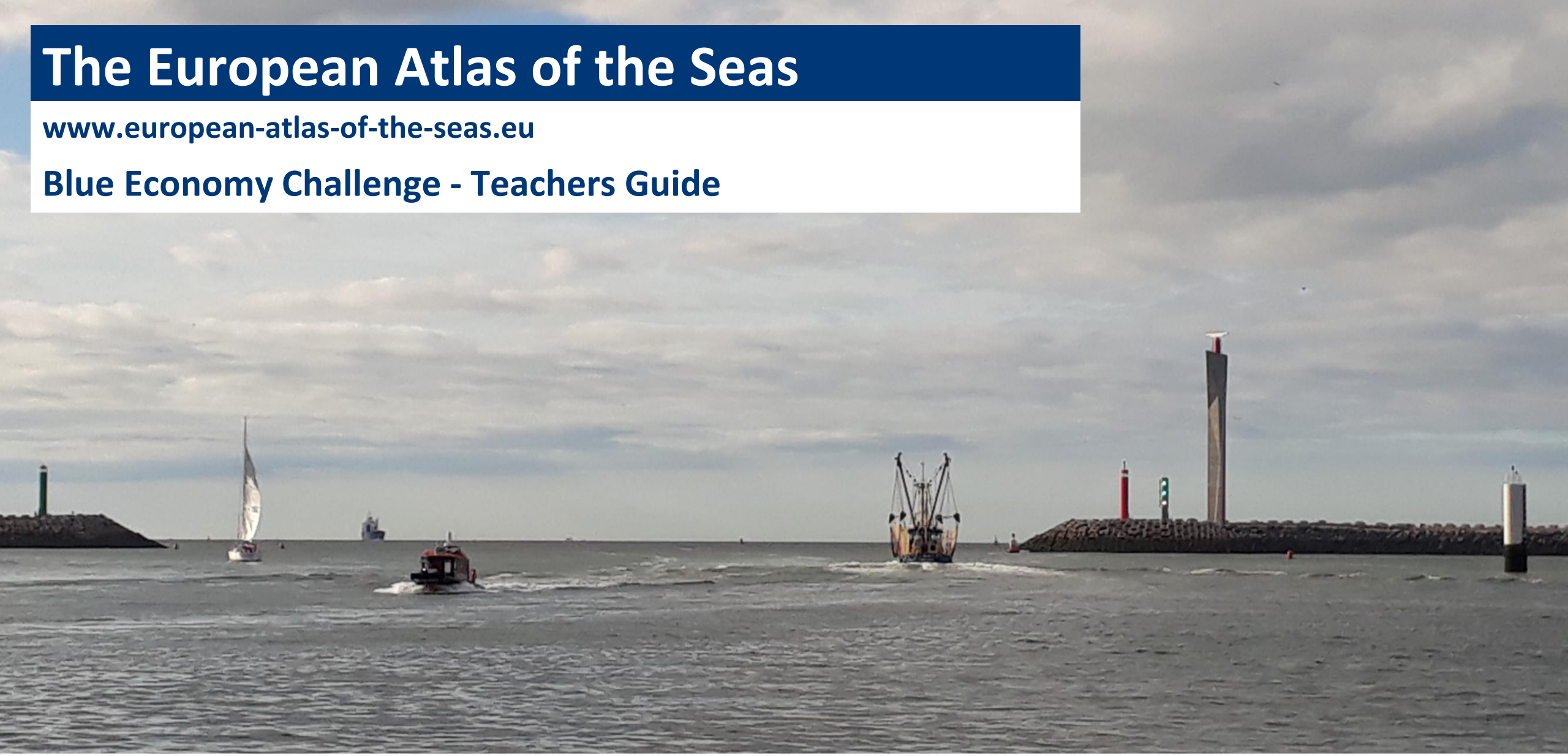
The European Atlas of the Seas

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

Blue Economy Challenge - Teachers Guide

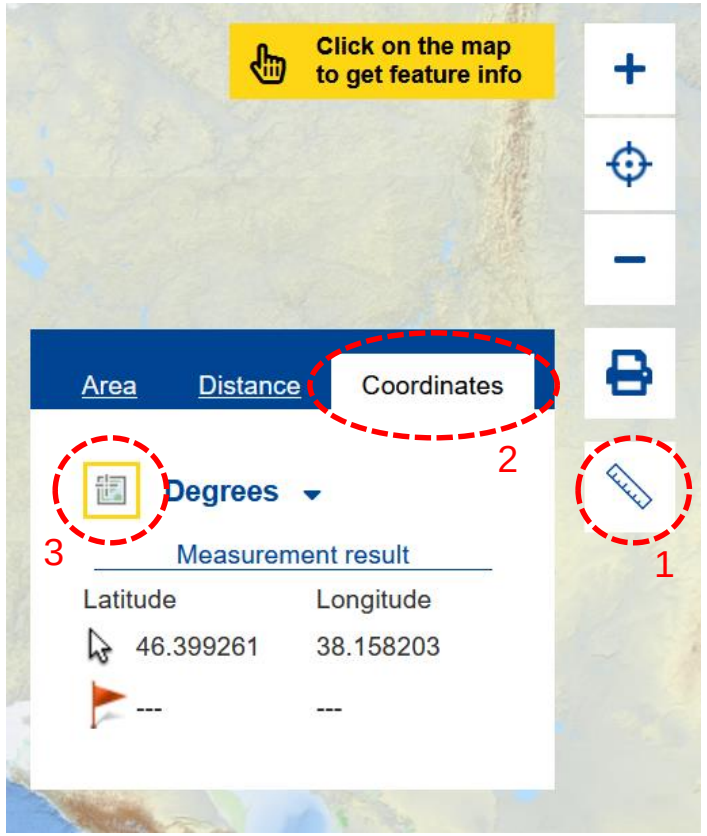


European Commission

EMODnet
European Marine Observation and Data Network

Question 1: Match the geographic coordinates of the images you have found with the different sectors in the document below.

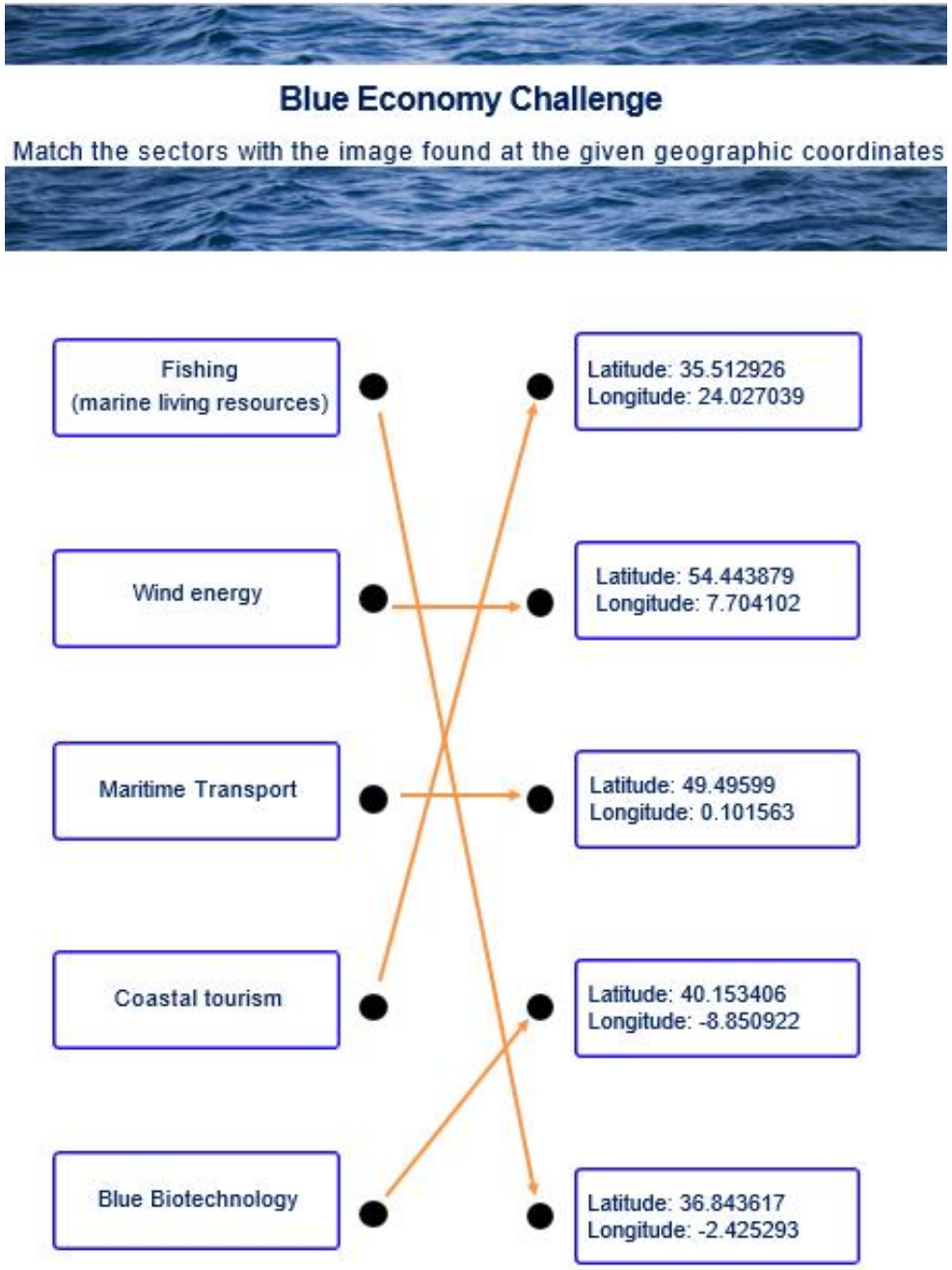
To find the images:



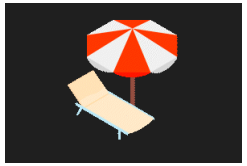
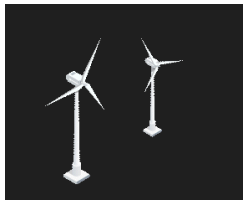
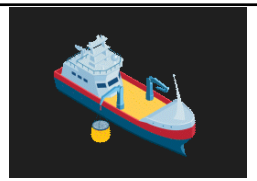
1. open the measure tool by clicking on the ruler;
2. select 'Coordinates';
3. click on the icon next to the units;
4. Use the computer mousse or keyboard keys to move on the map and click on different locations to see the geographical coordinates. See how the coordinates change as you move north/south and west/east.
5. When you have reached coordinates provided in the list, click again on the icon next to the units (3) to desactivate the tool and click on the location.

An image will appear. Identify which sector this image is related to. Start again to find the other images.

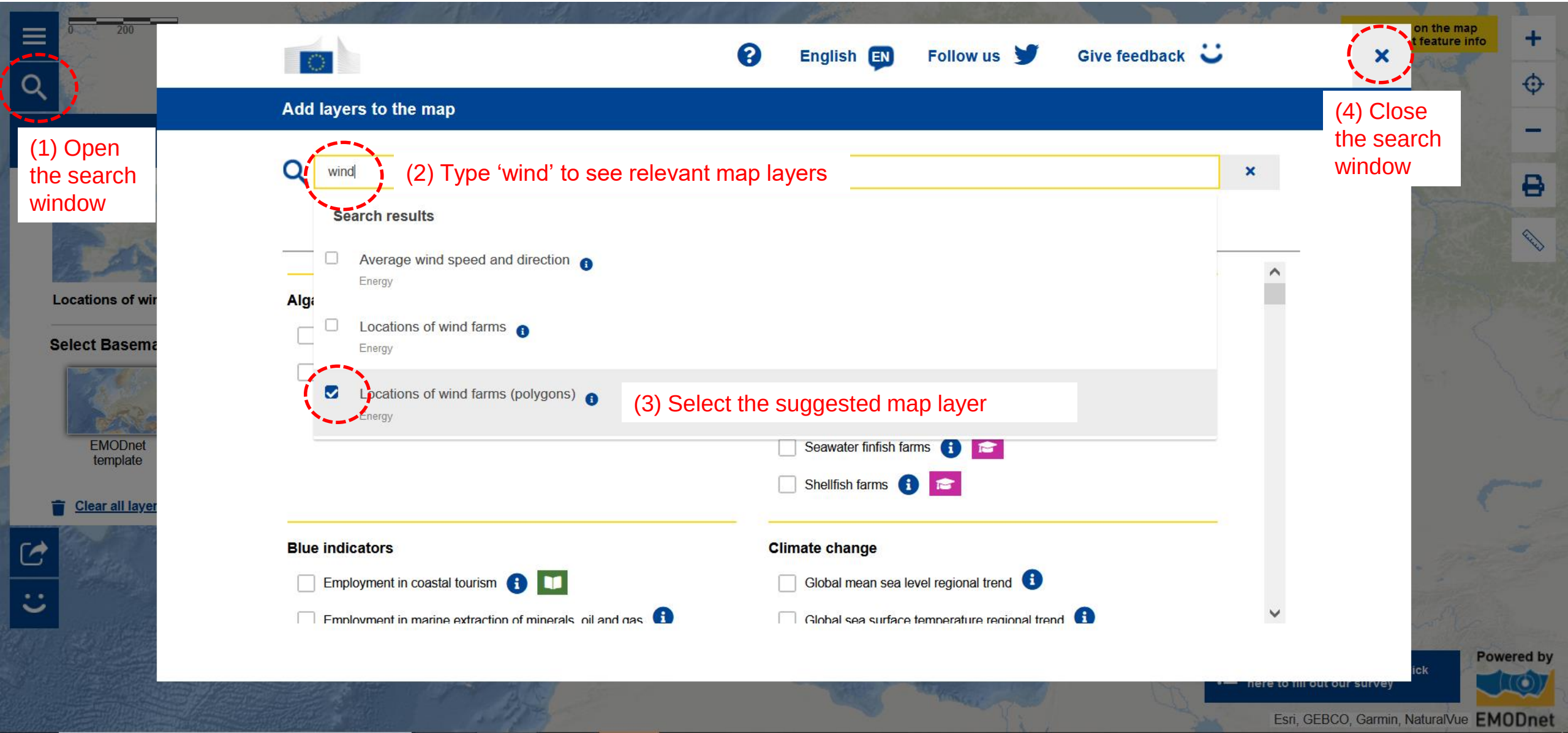
The answers are provided in the graph on the right. Details are included on the next slide.



Question 2: What are the nearest events to each location where you have found an image? What are the titles of these events?

Sector	Image	Country	Geographical coordinates	Nearby event
Coastal tourism		Greece	Latitude: 35.512926 Longitude: 24.027039	Seas and Climate Change: Navigating the Waters of Environmental Transformation
Maritime Transport		France	Latitude: 49.49599 Longitude: 0.101563	Back to the Sea – Summer School
Wind energy		Germany	Latitude: 54.443879 Longitude: 7.704102	Coastal Summer School 2024, in cooperation with the research mission sustainMare
Fishing		Spain	Latitude: 36.843617 Longitude: -2.425293	Stories told of fishermen and the sea
Blue Biotechnology		Portugal	Latitude: 40.153406 Longitude: -8.850922	Blue Generation – the careers of the future: Blue Economy Career Fair

Question 3: The image for the marine renewable energy sector is located in the sea. Combine the map layers '2024 EMD in My Country' and 'Wind farm locations (polygons)' to see that the image is hidden at a location of wind farms. Are these wind farms planned or in production?



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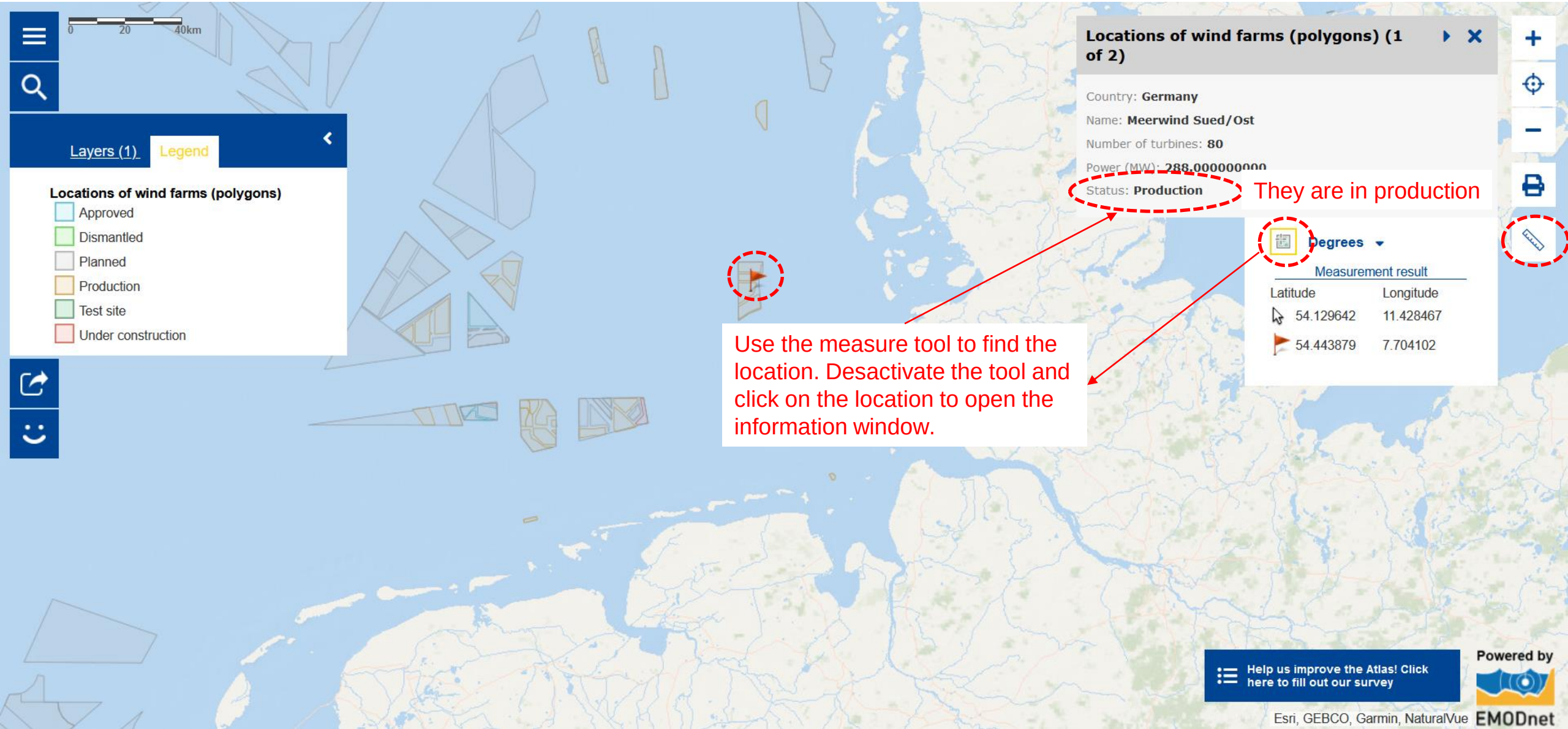
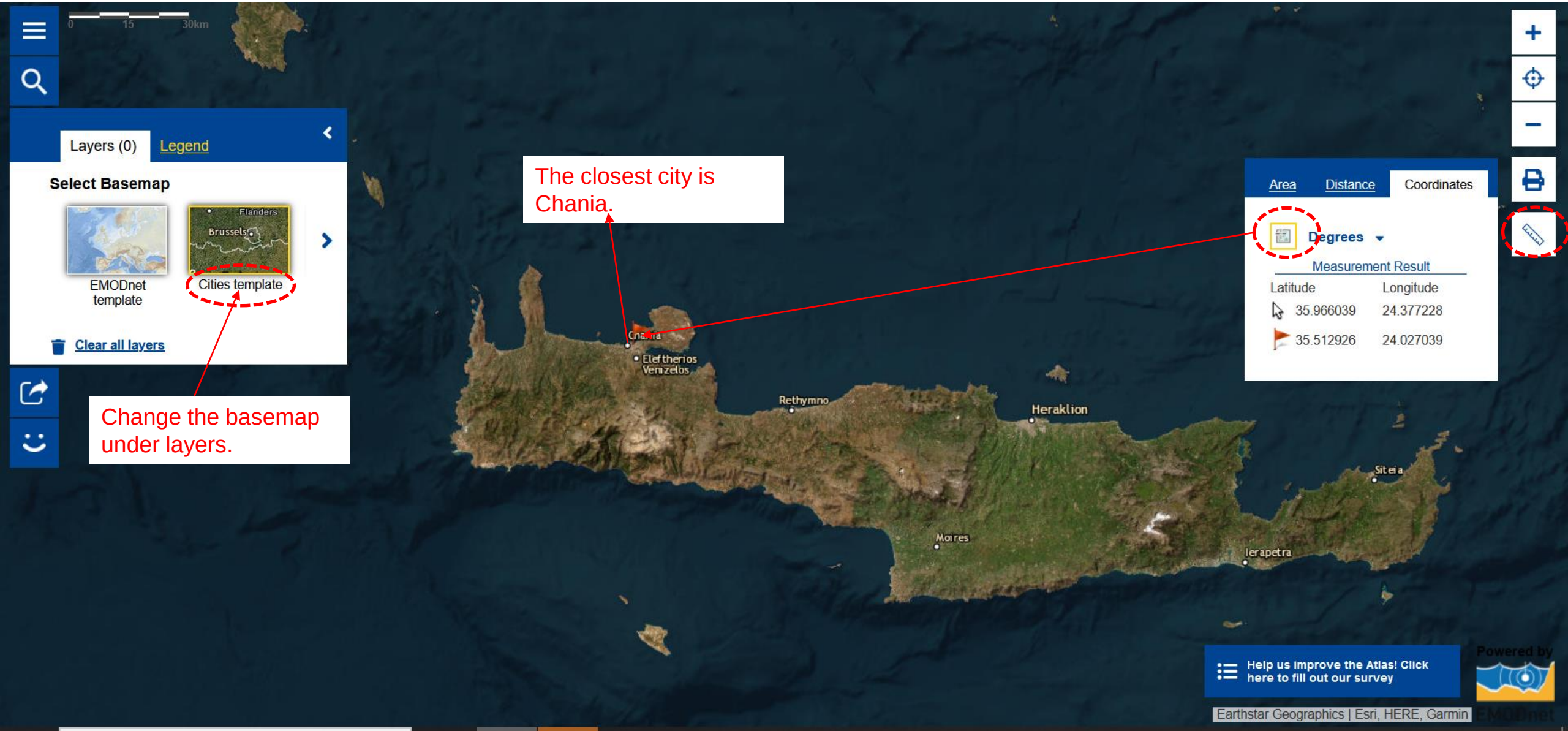
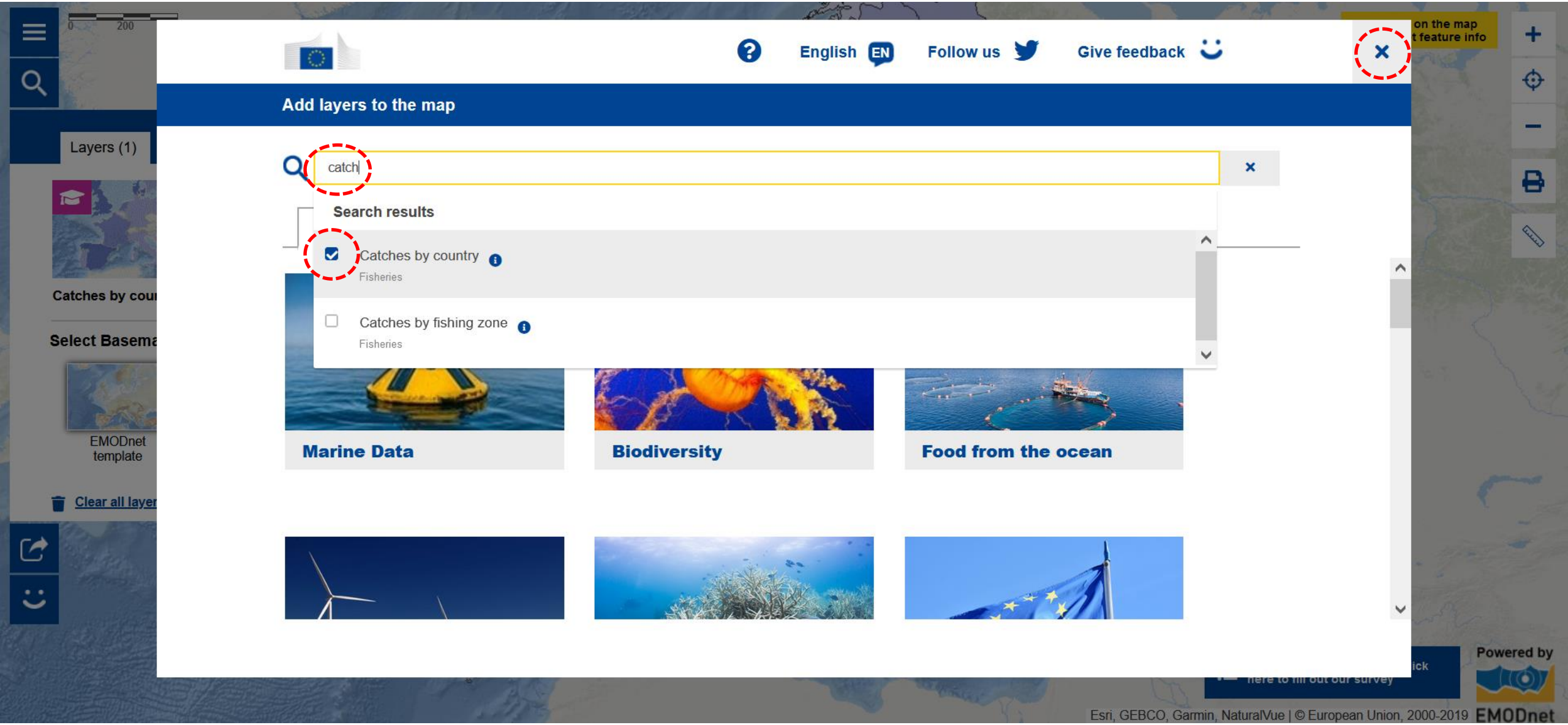


Question 4: The current basemap is the 'EMODnet template'. Change the basemap to the 'Cities template'. What is the closest city to the location where you have found the image for coastal tourism?



Question 5: Open the map layer related to fisheries that present data on Catches by country. Looking at the map, can you indicate which are the top three countries with the highest catches? Click on one of these countries to see how catches have evolved in time. What is the overall trend in this country over the past 19 years?



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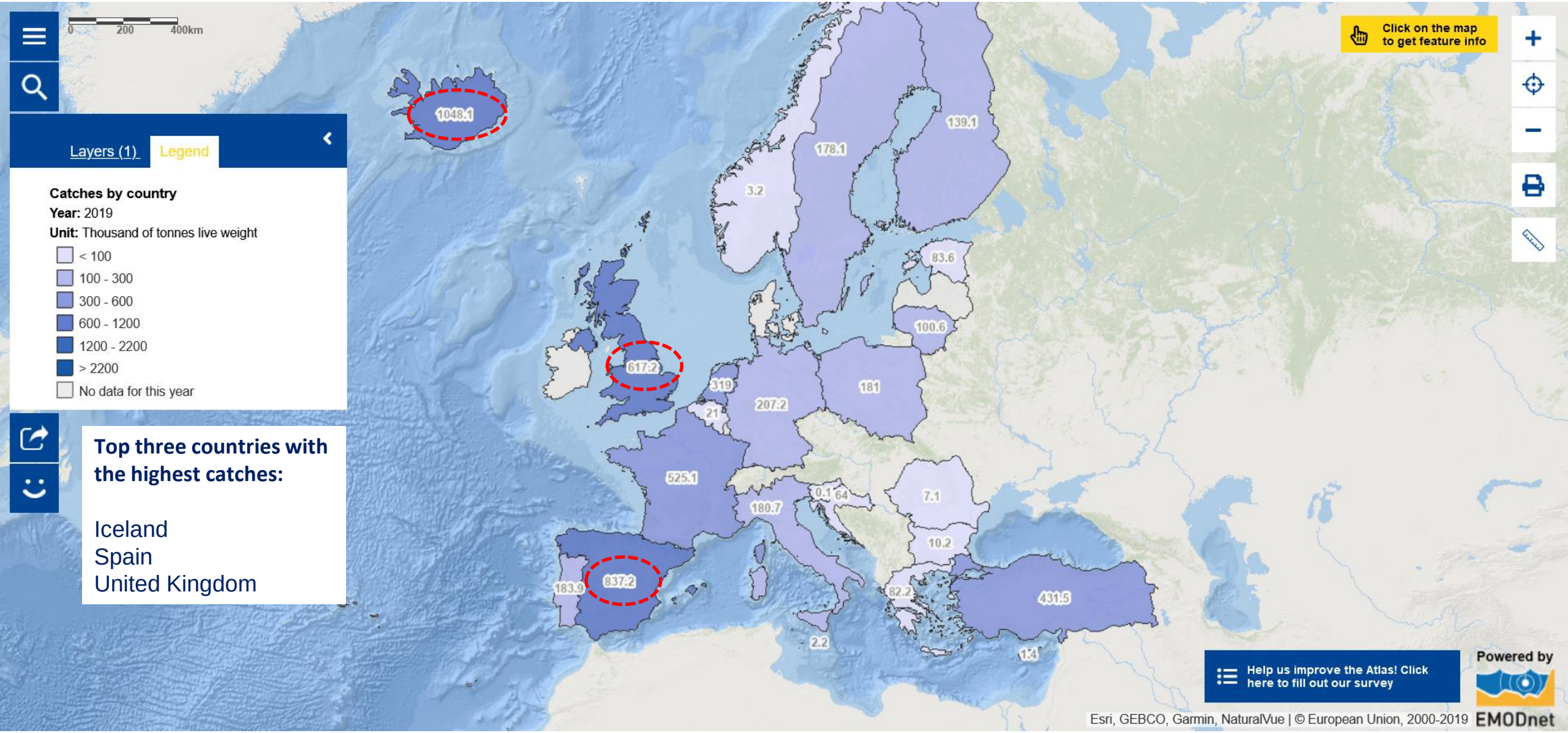

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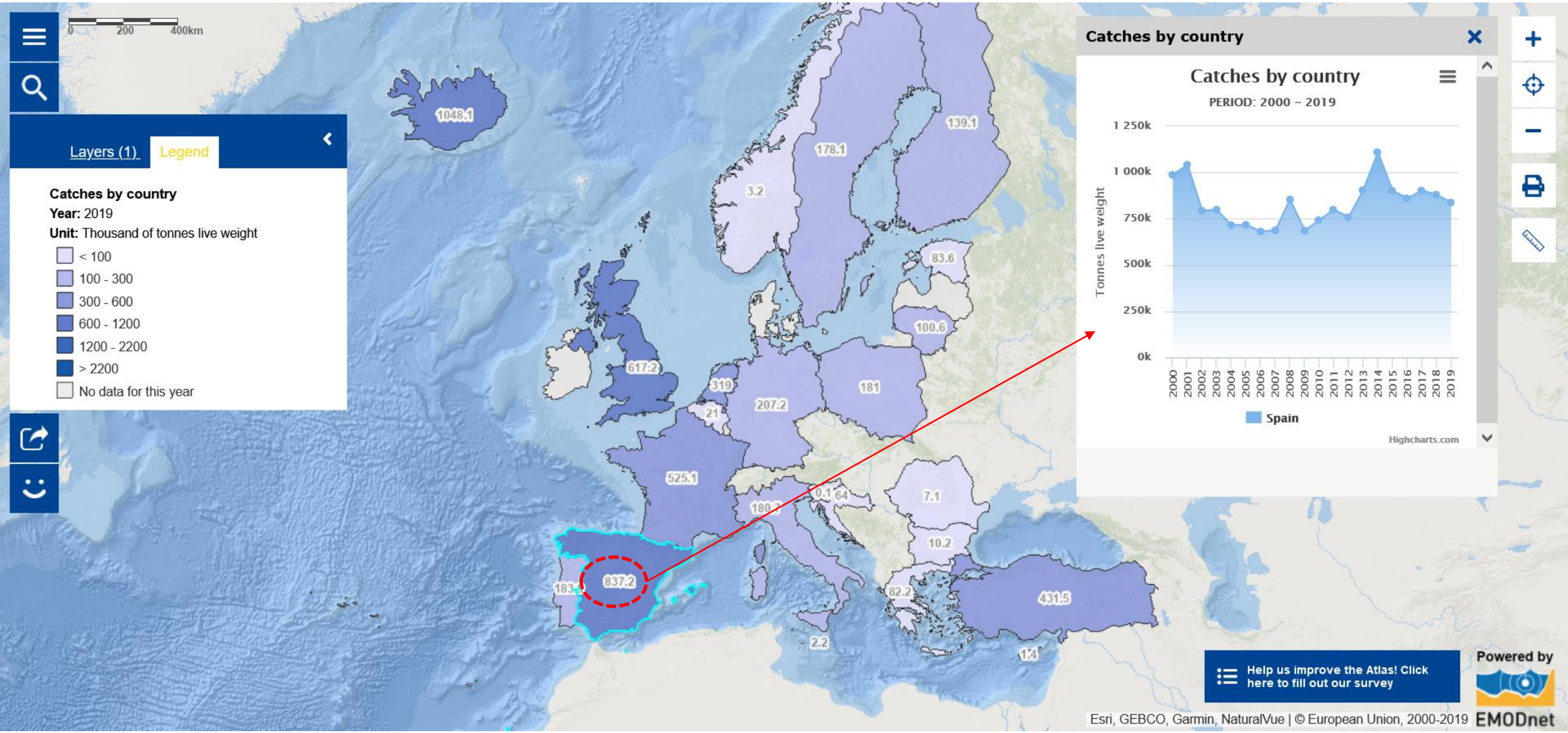
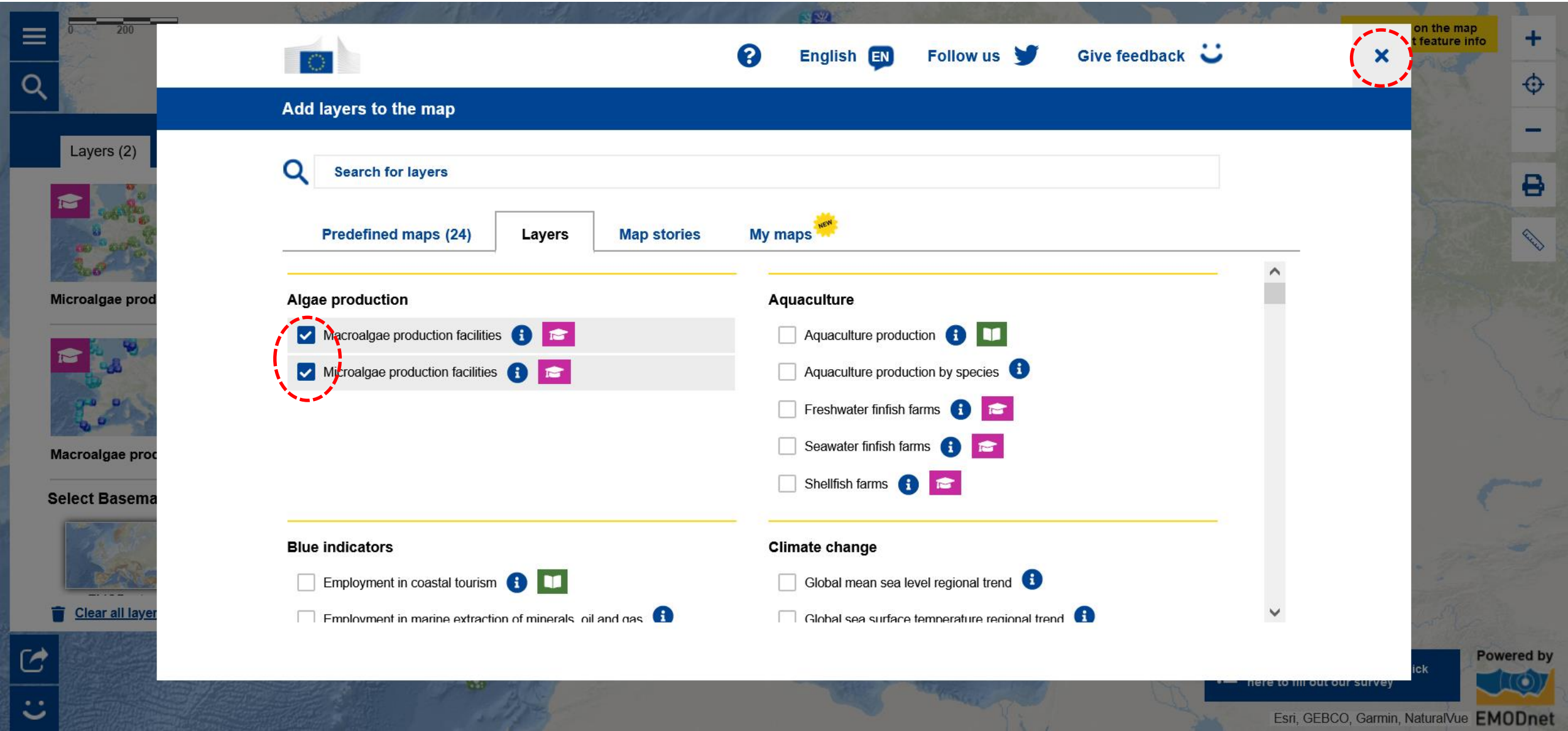


Question 6: Open the map layers ‘Macroalgae production facilities’ and ‘Microalgae production facilities’ and explore the resulting map. In which countries do you see the highest number of macroalgae aquaculture at sea production facilities?



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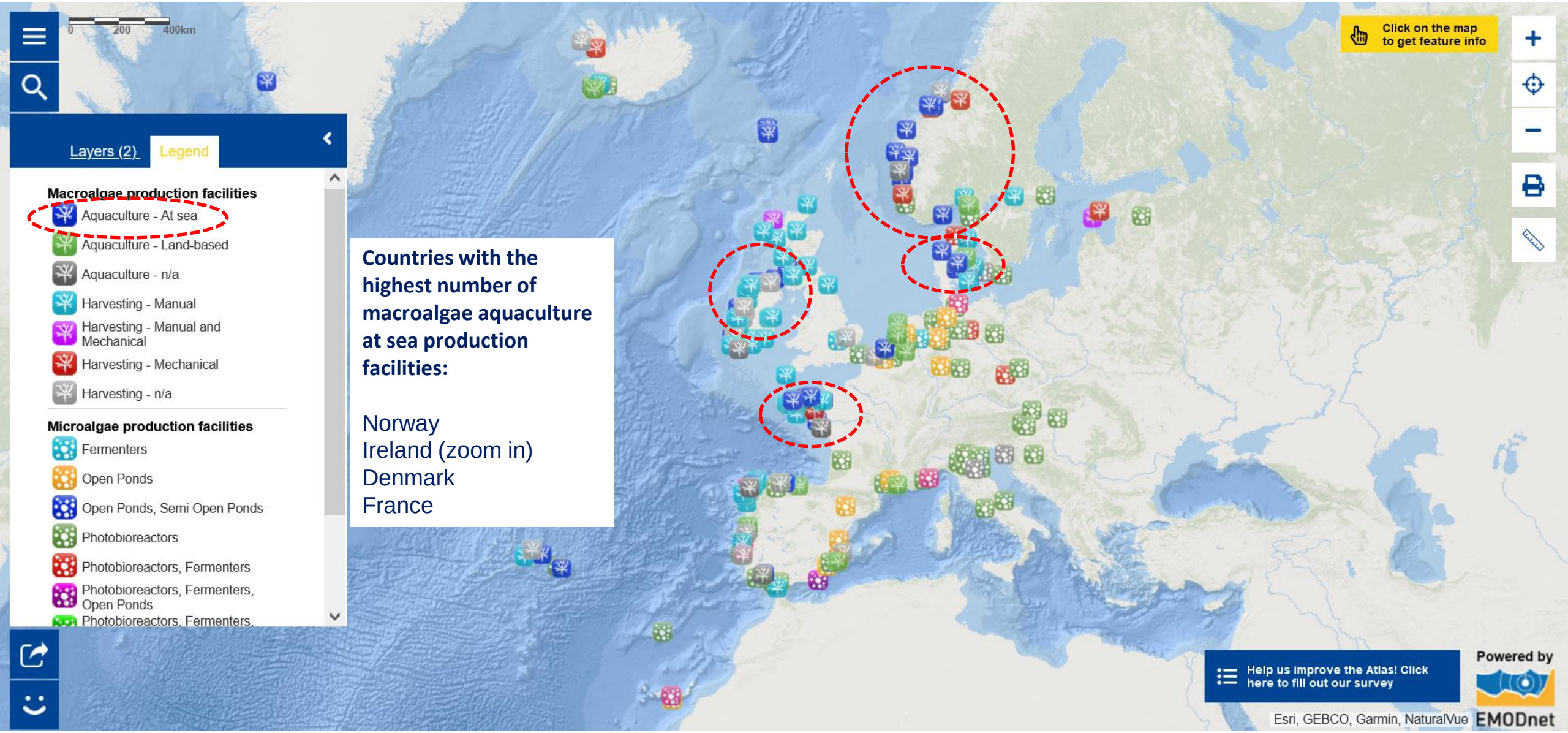

Question 7: Watch the Euronews Ocean episode on "How schools and industry are working together for the future of Europe's blue economy". Explain in your own words what the blue economy is. Can you think of other sectors that are included in the blue economy?

EU Blue Economy Sectors

EU Blue Economy includes all sectoral and cross-sectoral economic activities based on or related to the oceans, seas and coasts: Marine-based activities and Marine-related activities.

Source: https://blue-economy-observatory.ec.europa.eu/index_en

The blue economy generates millions of jobs both in coastal regions and in the European Union as a whole.

4.5 million jobs

were generated by the blue economy in 2019. That's around 2.3% of all EU jobs.

There are 7 major sectors

Living resources (aquaculture and fisheries), non-living resources (oil, gas and other materials), transport, ports, shipbuilding, wind energy and coastal tourism.

63% are coastal tourism jobs

It's the largest blue economy sector in the EU.

New sectors are emerging

Sectors like ocean energy, biotechnology and desalination are growing rapidly.

Source: The Blue Economy report 2022, EU Commission

Source: https://www.euronews.com/green/2023/04/25/how-schools-and-industry-are-working-together-for-the-future-of-europes-blue-economy)

Slide 1: Source of picture – EMODnet Secretariat, CC BY-NC-ND 4.0