

The European Atlas of the Seas

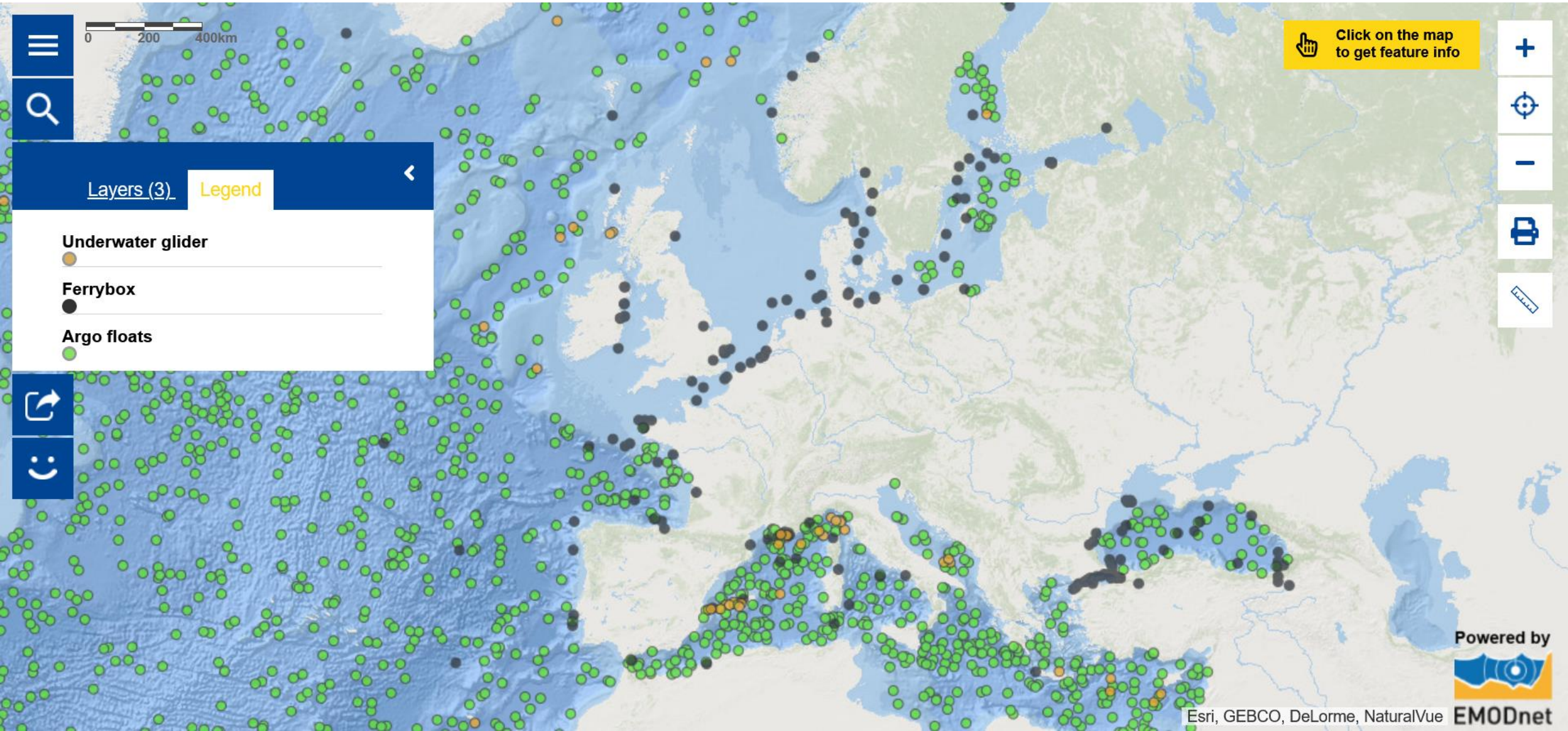
www.european-atlas-of-the-seas.eu



Join Blue Schools, Den Helder (22 March 2023)



What do we know about the ocean?

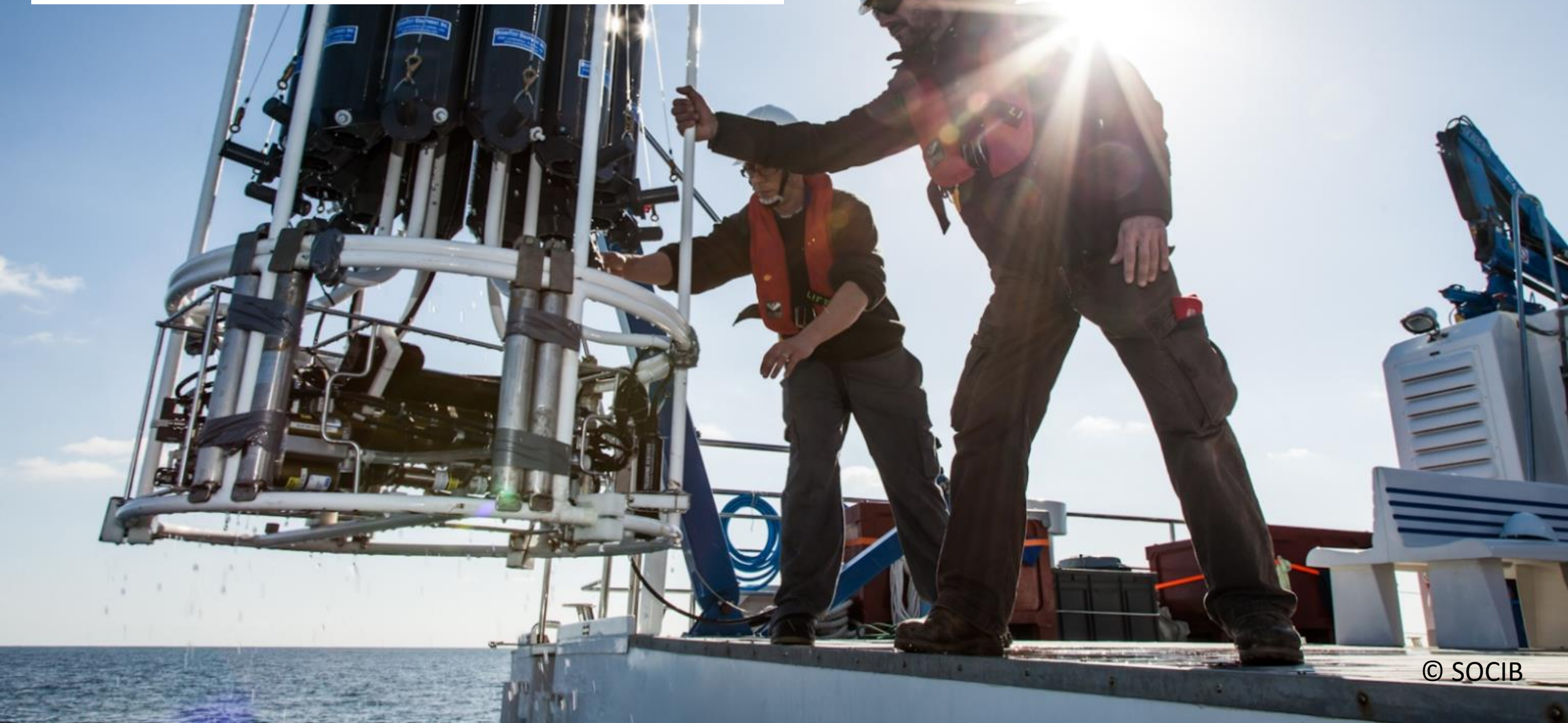


European Marine Observation and Data Network

FAIR: Findable, Accessible, Interoperable, Reusable
emodnet.ec.europa.eu



EMODnet
European Marine
Observation and
Data Network



What is the European Atlas of the Seas?



Tourism



Nature



Sea life



Transport



Sea bottom



Energy



Security



Fishing stocks and quota



Aquaculture

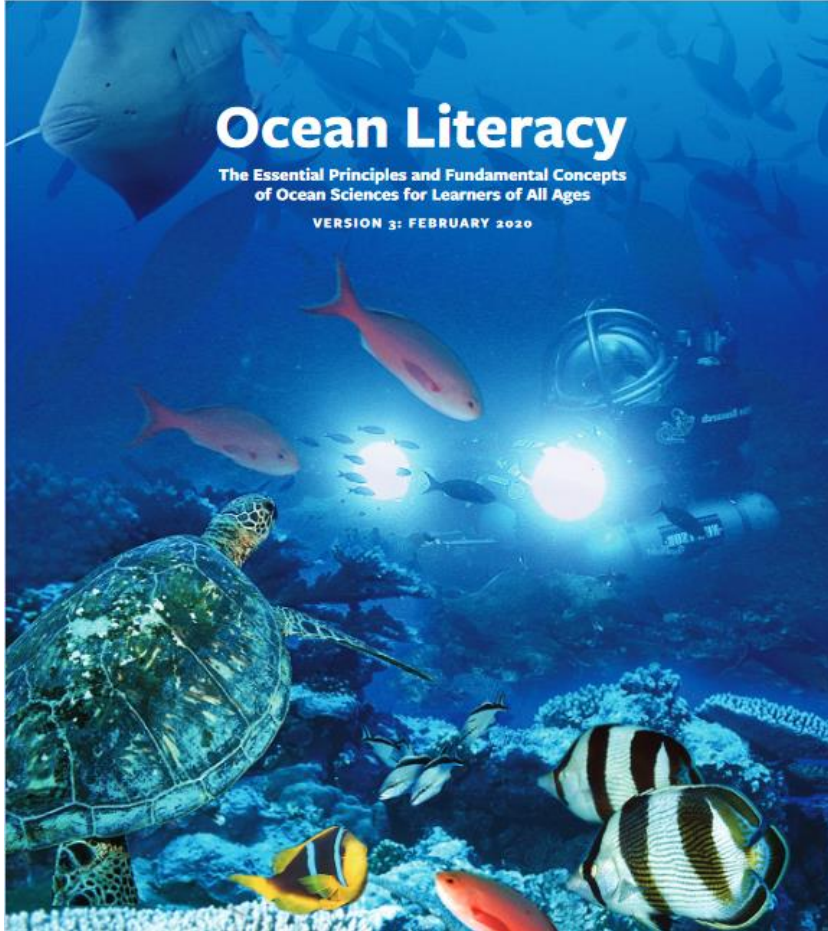


Employment

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



What do we know about the ocean? Why is it important?



UNESCO Ocean Literacy Guide



AN OCEAN-LITERATE PERSON:

understands the Essential Principles and Fundamental Concepts about the ocean;
can communicate about the ocean in a meaningful way; and
is able to make informed and responsible decisions regarding the ocean and its resources.



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

How does it work?

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

24 languages

The screenshot shows the website's header and main content area. The header is white with a blue navigation bar below it. The navigation bar contains a question mark icon, the text 'English EN', a Twitter icon, and the text 'Give feedback' with a smiley face icon. A red dashed circle highlights the 'English EN' text, and a red arrow points from the text '24 languages' to it. Another red dashed circle highlights the 'Give feedback' button. The main content area has a blue background with a white information icon and the title 'European Atlas of the Seas'. Below the title is a description: 'Explore, collate and create your own sea map. Learn more about Europe's seas and coasts, their environment, related human activities and European policies.' At the bottom, there are five blue buttons with white icons and text: 'Do you need help?' (with a yellow starburst icon labeled 'v7'), 'Advanced features', 'Atlas overview', 'Teachers corner', and 'Legal notice'.

How does it work?

0 200

English EN Follow us Give feedback

the map nature info

Add layers to the map

Search for layers

Predefined maps (19) Layers Map stories My maps ^{NEW}

Algae production

- Macroalgae production facilities
- Microalgae production facilities

Aquaculture

- Aquaculture production
- Aquaculture production by species
- Freshwater finfish farms
- Seawater finfish farms
- Shellfish farms

Blue indicators Climate change

Powered by EMODnet

How does it work?

0 200 400km

Click on the map to get feature info

Layers (2) Legend

Macroalgae production facilities

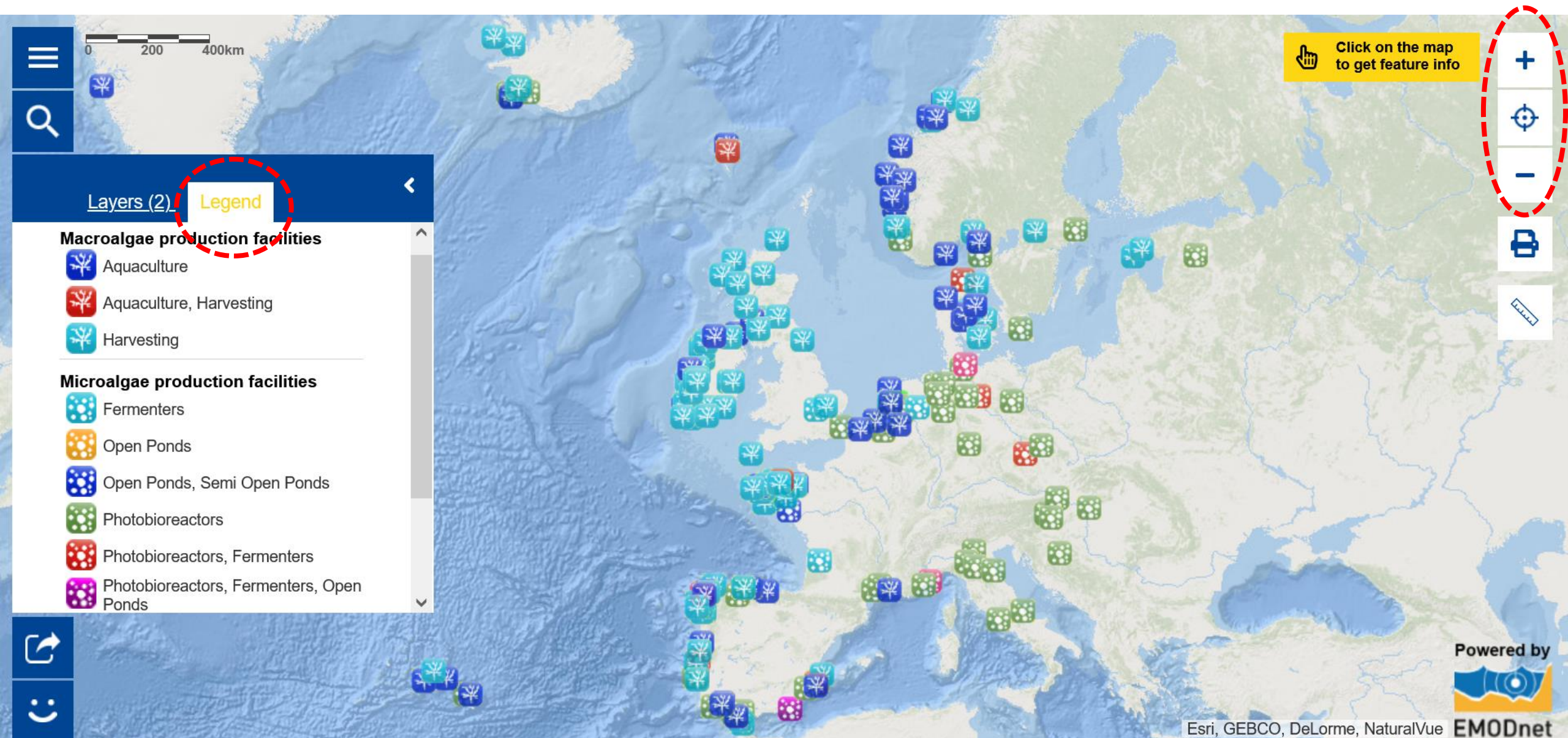
Clear all layers

EMODnet

This map shows macroalgae-producing facilities by production methods (land-based, offshore and coastal aquaculture or harvesting). Data have been collected in the following countries: Belgium, Denmark, Estonia, France, Germany, Ireland, Italy, Norway, Portugal, Spain, Sweden, and UK. Macroalgae, also commonly known as seaweeds, have been part of East and South-East Asian citizens' daily diet for centuries. Nowadays, they are becoming increasingly popular in Europe too for many purposes other than food, as a source material for use in pharmaceuticals, cosmetics, nutrition or energy (biofuel). Companies across Europe are now harvesting, cultivating, or processing them to create high-value products.

Powered by
Esri, GEBCO, DeLorme, NaturalVue
EMODnet

How does it work?




Learning to use the Atlas' tools in 24 languages !

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
- Teachers corner
- Legal notice

European Atlas of the Seas help

About the European Atlas of the Seas, Atlas basics and how to create and share your map

- Change language
- Home page
- Map Navigation tool
- Measurement functionality
- Share this map
- Follow us

Note: Your selected layers are hidden and the countries map is activated to explain the functionalities of the Atlas. Your selection will appear again when closing the help.

European Atlas of the Seas: interactive help now available in 24 languages!

Published on: Wed, 07/09/2022 - 15:56 [View as pdf](#)

For the start of the new school year, the European Atlas of the Seas is releasing its interactive help tool in 24 languages! With a few clicks in any of the 24 official languages of the European Union, you can now become an Atlas expert and find out everything you wish to know about the ocean, seas and coasts! Use this multilingual tool to easily learn how to use the Atlas and discover all of its features! Send us your questions and your comments by completing the feedback form within the Atlas! Take this opportunity to learn who is behind the Atlas, who its partners are and how users are benefiting with the launch of the Atlas interviews series!



Integrating your map in your work with the Atlas' tools

The screenshot displays the 'Print' interface of the European Atlas of the Seas. 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' and 'Give feedback', and a close icon. 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 titled 'EUROPEAN ATLAS OF THE SEAS' showing Europe with various icons. Below the map, it displays the date 'May 23, 2022' and the scale '1:147.914.381'. The right column contains settings for the print job: 'Paper size' is set to 'A3 Landscape', 'Format' is set to 'PDF', 'Include legend' is checked, and 'Map title' is 'EUROPEAN ATLAS OF THE SEAS'. At the bottom of the settings, there is a 'Scale' dropdown set to '1 : 147.914.381'. A 'Next >' button is located at the bottom center. On the far right, a red dashed circle highlights the print icon in the map's toolbar. The bottom right corner features the 'Powered by EMODnet' logo.

My Maps: Your working space in the Atlas!

The screenshot displays the Atlas interface. At the top, there is a navigation bar with a search icon, a language selector set to 'English EN', and social media links for 'Follow us' and 'Give feedback'. Below this is a blue header for 'Add layers to the map'. A search bar for layers is present, followed by tabs for 'Predefined maps (19)', 'Layers', 'Map stories', and 'My maps' (which is circled in red and has a 'NEW' badge). Under 'My maps', there are three featured maps: 'Europe' (with a European Union flag), 'Tourism' (with an underwater scene), and 'Nature' (with a seagull). Below these are three more map thumbnails. On the right side, a vertical toolbar contains icons for zooming, centering, printing, and measuring. An 'Advanced features' panel is open on the right, showing three toggle switches: 'Print tool' (checked), 'Measures tool' (checked), and 'Save map' (checked and marked 'NEW').

English EN Follow us Give feedback

Add layers to the map

Search for layers







Predefined maps (19) Layers Map stories **My maps** ^{NEW}

Europe Tourism Nature

Advanced features

- Print tool** Printing service to allow the current map to print
- Measures tool** Tool to determine areas, distances and coordinates
- Save map** ^{NEW} Save the map settings

My Maps: Your working space in the Atlas!

  English  Follow us  Give feedback  

Save map

Map title: *

The role of oceanographic instruments

Description:


This map is composed of three map layers. It shows three types of oceanographic instruments.


- Can you identify each type of instruments on the map using the legend?
- How do these instruments work?
- Which parameters are measured?
- Can you find other map layers in the Atlas related to oceanographic instruments? Which ones?

List of layers: *

- Underwater glider
- Ferrybox
- Argo floats

Map image: *






Upload a new image

Save

Layers (

- Underwater
- Ferrybox
- Argo floats

Powered by  EMODnet

Groepspeel

- **Klimaat groep:** De zeespiegel stijgt als gevolg van de opwarming van de oceaan en het verlies aan ijsmassa op het land. Hoeveel stijgt de zeespiegel per jaar (3,3 mm – 50 mm - 30 cm)?
- **Zeebodem groep:** Wat is de grootse onderwaterdiepte op de kaart gemiddelde onderwaterdiepte (1000 m – 6000 m – 11000 m)?
- **Zeeafval groep:** In 2019, werd een strandschoonmaakactie in Blankenberge georganiseerd. Hoeveel zeeafval hebben mensen verzameld (300 kg - 5000 kg – 9000 kg)?



My Maps: Your working space in the Atlas!

0 200

? Nederlands **NL** Volg ons Feedback geven

Lagen toevoegen aan de kaart

Lagen zoeken

Vooraf gedefinieerde kaarten (19) Lagen Kaartverhalen **Mijn kaarten** NEW

Een nieuwe kaart aanmaken

e of oceanographic instruments

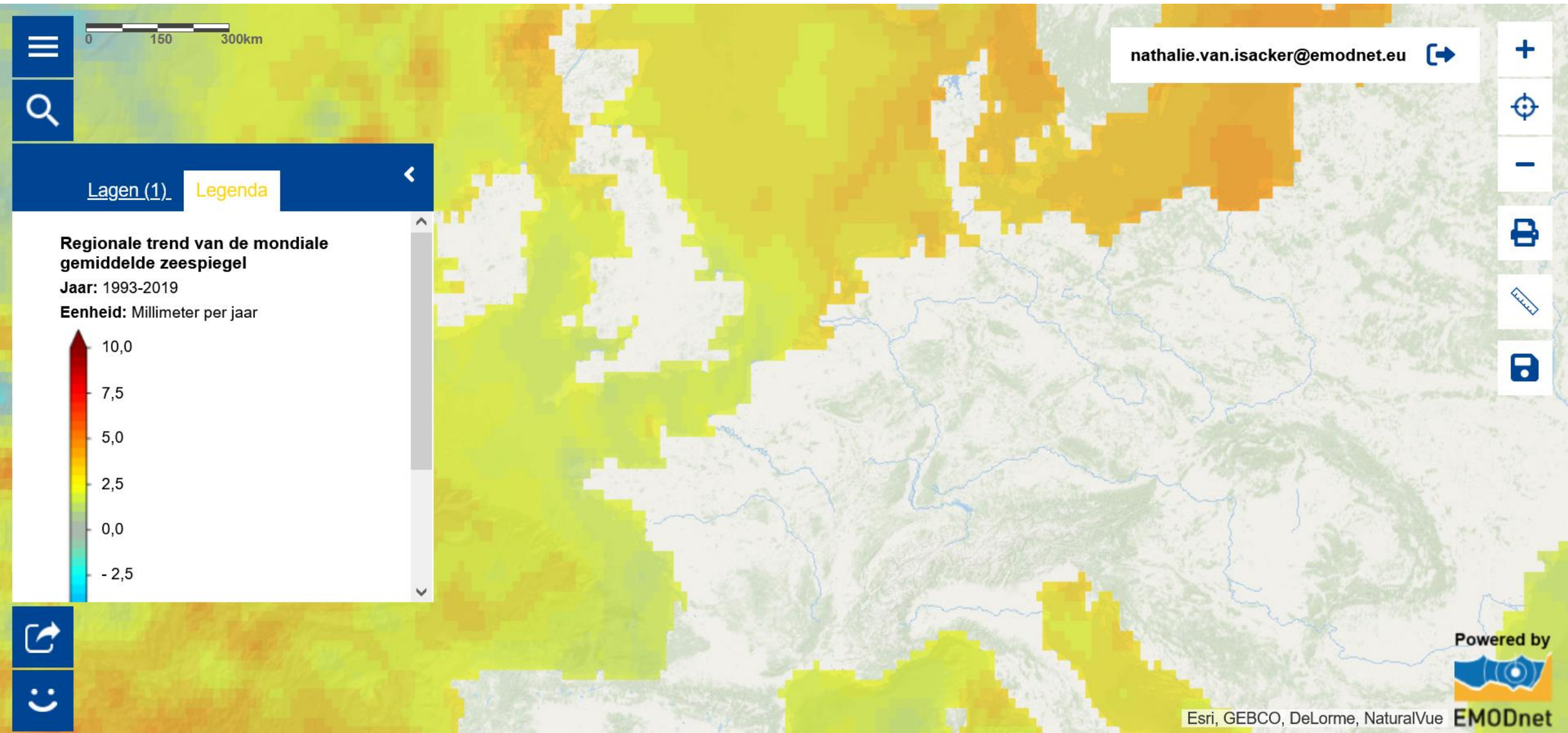
Zeespiegel

Onderwaterdiepte

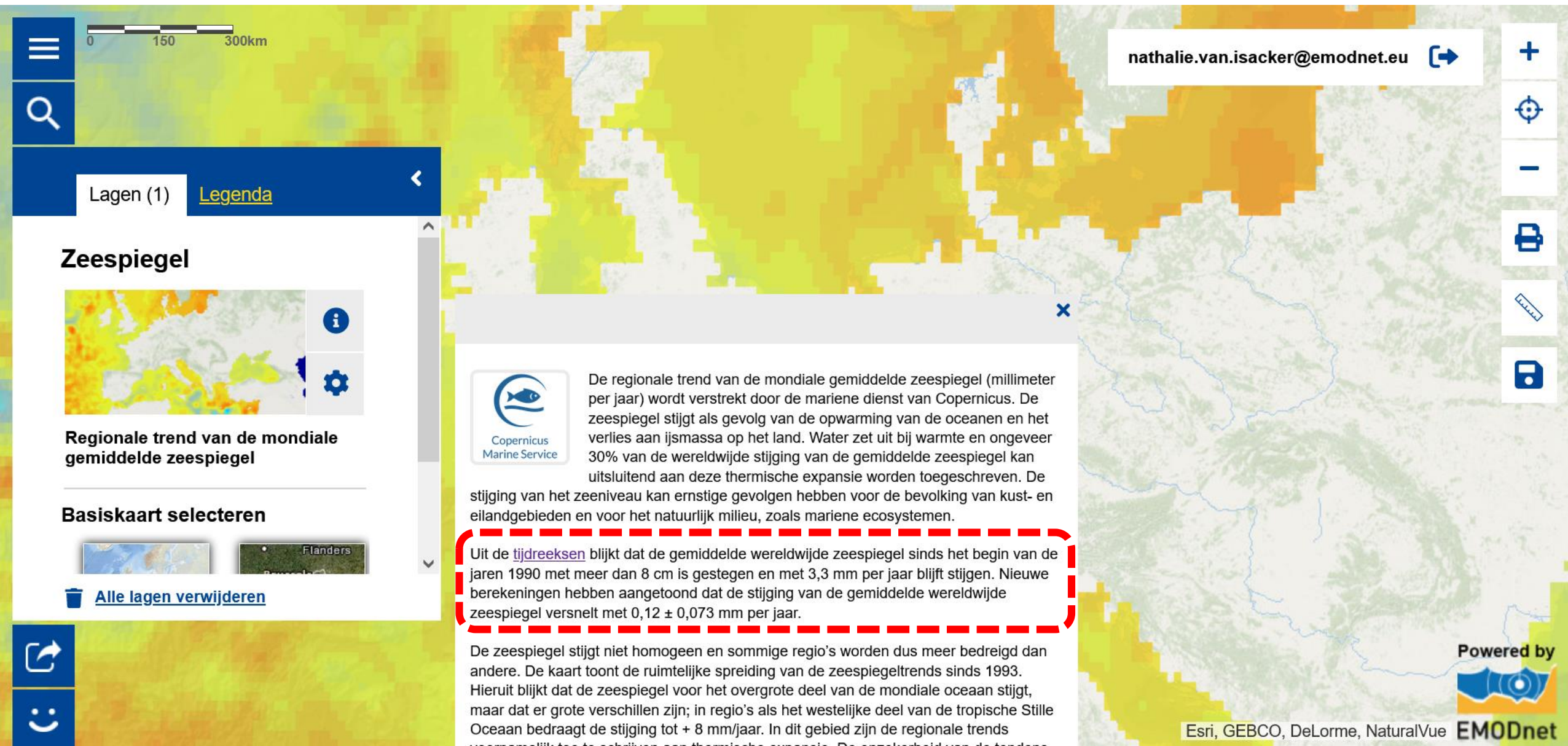
Strandschoonmaakactie

Powered by **EMODnet**

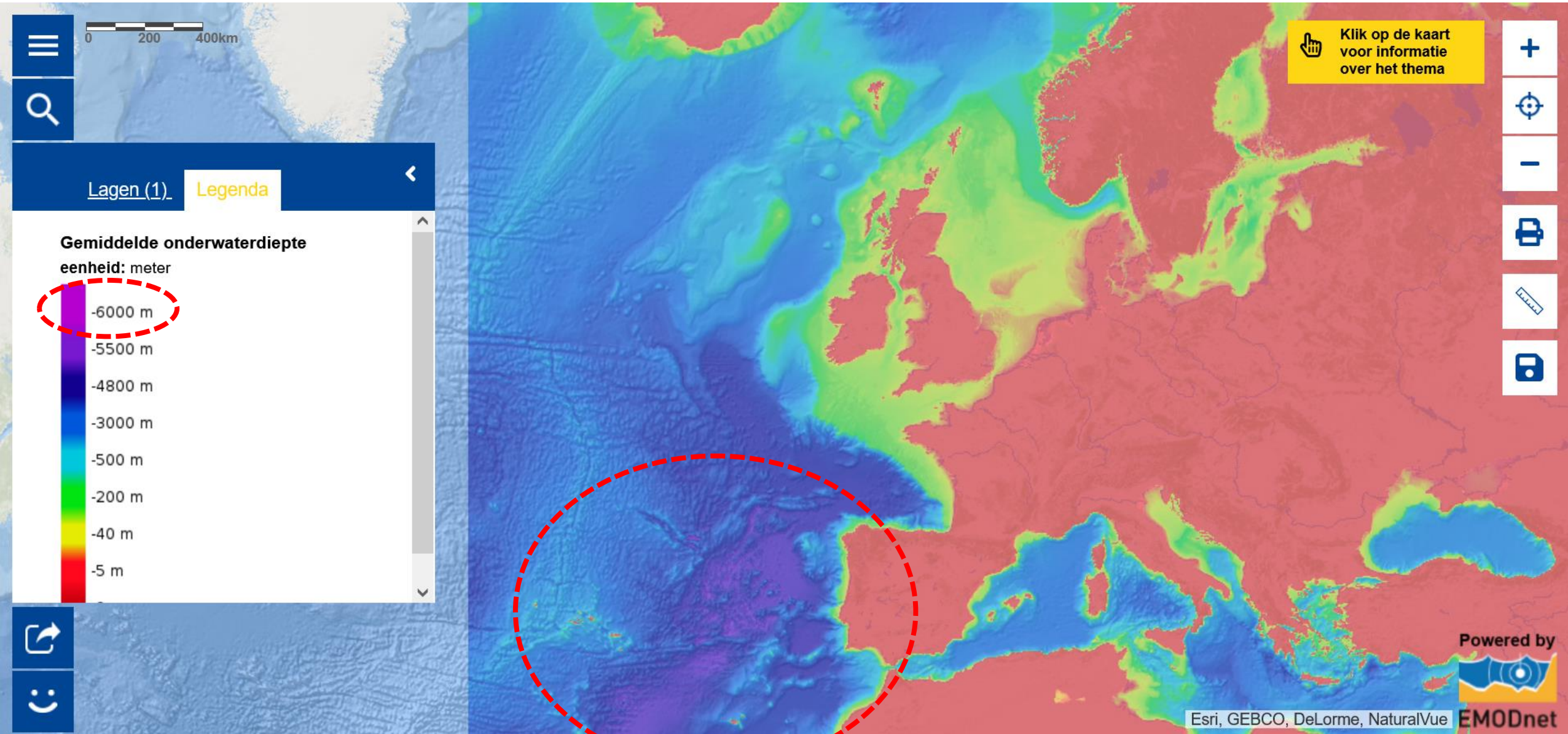
Klimaat groep: 3,3 mm per jaar



Klimaat groep antwoord: 3,3 mm per jaar



Zeebodengroep antwoord: 6000 m



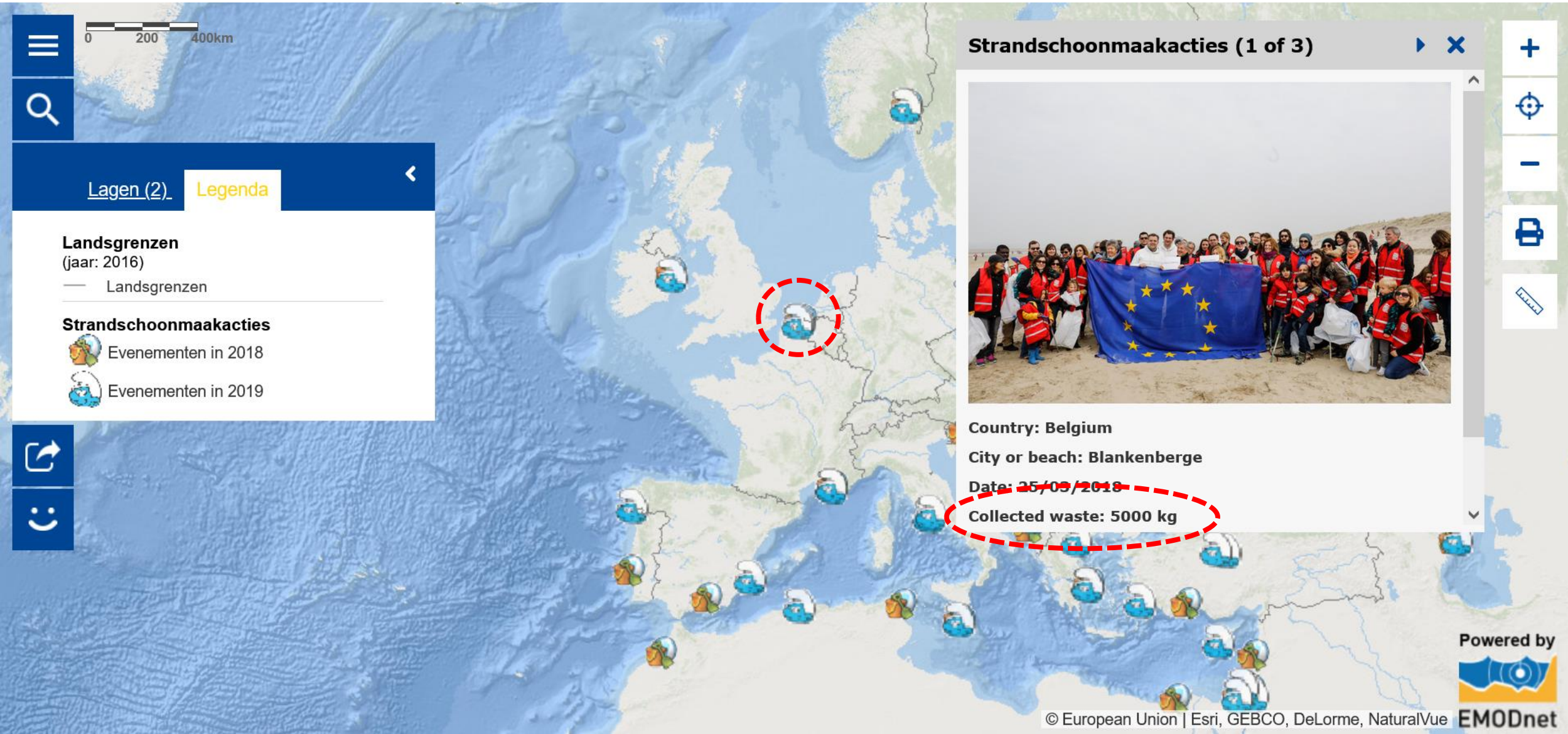
Zeebodengroep: Ter wereld...

- De schatting van de **gemiddelde diepte** van de oceaanbekkens is 3682 meter.
- De **diepst plek op aarde** is in de Stille Oceaan: Challenger Deep in de Marianentrog, ten oosten van de Filippijnen, op 11034 meter.

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



Zeeafval groep antwoord: 5000 kg



Zoom in for your own exercises and games

Layers (1) Legend

Marine Natura 2000 sites

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

Marine Natura 2000 sites (1 of 2)

Country: **Netherlands**
Site code: **NL1000001**
Site name: **Waddenzee**
Type: **SCI (Special Conservation Interest)**
Directive: http://ec.europa.eu/environment/nature/legislation/habitatsdirective/index_en.htm
Size (in ha): **264858.000000**

Map labels: Den Helder, Heerhugowaard, Alkmaar, Hoorn, Beverwijk, Purmerend, Lelystad, Hartingen, Franeker, Sneek, Leeuwarden, Emmeloord, Steerwijk, FRIESLAND, FLEVOLAND, DRENTH, OVERIJSEL, Assen, Emmen, Meppen, Zwolle, Hardenberg, GERMANY.

Scale: 0 10 20km

Powered by LiDAR

Earthstar Geographics | Esri, HERE, Garmin

Help us improve the Atlas! Click here to fill out our survey

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

Espace enseignants

Published on: Mon, 16/08/2021 - 15:49

Bienvenue sur l' "Espace enseignants" de l'Atlas européen des mers!

L'Atlas européen des mers est un outil web public qui offre de l'information interactive et diversifiée d'une façon compréhensible pour le grand public. Il est composé d'une collection de cartes avec des données fiables sur les caractéristiques naturelles et socio-économiques des régions côtières d'Europe. Les données proviennent dans la grande majorité de la Commission européenne et de ses agences (p.ex. Eurostat, EEA,...) et du réseau EMODnet (European Marine Observation and Data Network).

L'Atlas offre un océan d'information d'une façon conviviale sur des thèmes tels que la nature, le tourisme, la sécurité, l'énergie, les déchets, l'érosion côtière, la densité de trafic des navires, le transport de passagers, le fond marin, l'augmentation du niveau de mer, la consommation de poissons et bien plus encore !

Utilisez l'Atlas pour explorer et créer vos propres cartes. Sélectionnez différentes couches cartographiques, effectuez un zoom sur votre zone d'intérêt (par exemple, un bassin maritime, un pays, etc.), mesurez les distances et la superficie des zones et exportez votre carte personnalisée ou imprimez-la pour une utilisation ultérieure.

Ce wiki a été mis en place pour fournir une plate-forme aux enseignants de l'Union européenne qui souhaitent utiliser l'Atlas européen des mers dans leurs cours. Ils peuvent y trouver et partager des informations, des exercices et bien plus.

Jusqu'à 12 ans **De 12 à 15 ans** **De 15 à 18 ans**



Lancez-vous et commencez à explorer l'Atlas

Consultez la liste des couches

Regardez la "map of the week" (disponible en anglais)

Guide pour enseignants (sessions de formation à Nausicaá)

Présentations récentes

Espaço dos professores

Published on: Mon, 16/08/2021 - 16:02

A partir de agora, os visitantes podem navegar no Atlas nas 24 línguas oficiais da União Europeia, bem como explorar uma vasta gama de tópicos marinhos populares, como turismo, lixo, ambiente, energia, aquicultura e muito mais!

O Atlas conta com mais de 285 layers de informação e a possibilidade de criar mapas personalizados que podem ser impressos, partilhados e incluídos em artigos e apresentações.

Até 12 anos **12-15 anos** **15-18 anos**

Estes exercícios foram desenvolvidos graças à colaboração de professores do programa Escola Azul - Portugal. Cada exercício inclui os créditos respetivos. Estamos muito gratos pela sua dedicação e contribuição.



Explore, colija e crie o seu próprio mapa

Consulte a lista de camadas

Veja o "mapa da semana" (disponível em inglês)

Apresentações recentes

https://webgate.ec.europa.eu/maritimeforum/en/node/6404

An official website of the European Union

European Commission > Maritime Forum > Maritime policy > Marine knowledge > European Atlas of the Seas > Atlas Teachers Corner > Teachers Corner > Teachers Corner

Themes | Communities | Search | F.A.Q. | EU Login

Teachers Corner

Published on: Mon, 16/08/2021 - 15:22

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 nature, tourism, security, energy, litter, coastal erosion, vessel density, passenger transport, sea bottom, sea level rise, fish consumption, and much, much more!

Use the Atlas to explore and compose your own maps! Select different layers, zoom in into your area of interest (e.g. a sea basin, a country...), measure distances and areas and export your customised map or print it for later use.

This wiki will be set up to provide teachers throughout the European Union, who want to use the European Atlas of the Seas in their lessons, a platform where they can find and share information, exercises and much more.

Up to 12 **12 to 15** **15 to 18**

Launch and start exploring the Atlas

Consult the list of layers

Check out the map of the week!

Watch the latest presentations

Teachers Guide (Nausicaá training sessions)

Share this article

More like this

- Atlas Teachers Corner
- Teachers' Guide- Treasure Hunt
- Teachers' Guide- Easter Egg
- Ocean and seas
- Sea Bottom

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



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

← **European Atlas of the Seas**
1,964 Tweets



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.

🔗 ec.europa.eu/maritimeaffair... 📅 Joined September 2013

1,401 Following 2,643 Followers

Follow

European Atlas of the Seas @EuropeAtlasSeas · Oct 1

With the #MapOfTheWeek, learn about global #ocean #chlorophyll, 🇪🇺 #MissionOcean and the @CMEMS_EU Ocean State Report.

▶ bit.ly/2Y8Pi1L

🌐 #OceanLiteracy #EU4Ocean



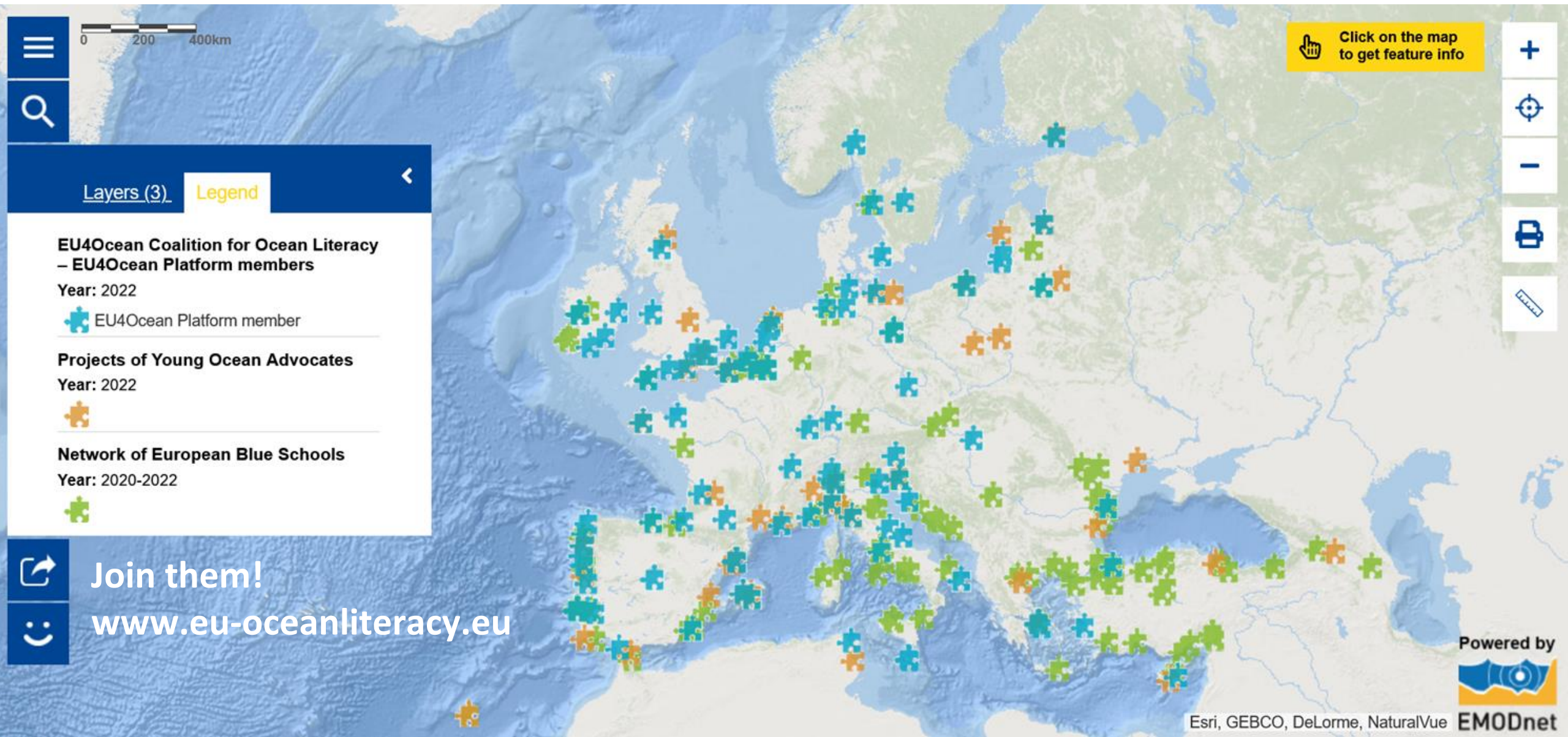
EU Maritime & Fish and 9 others

💬 8 ❤️ 11 📤



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

Ocean Literacy



Short interviews on the Maritime Forum

Discover the work and activities of :

- experts involved in the development of the Atlas
- people who have a keen interest in the ocean, seas and coastal areas

European Atlas of the Seas
@EuropeAtlasSeas

New with the @EuropeAtlasSeas: short interviews! Discover the work of experts & people who have a special connection to the #ocean! This month, we meet Clara Becares, Functional analyst @Bilbomatica . #LearnWithTheAtlas #STEM
[webgate.ec.europa.eu/maritimeforum/...](https://webgate.ec.europa.eu/maritimeforum/)

"Nací en Asturias, una región bañada por el Mar Cantábrico en el norte de España. Por ello mi vida ha estado relacionada de una u otra manera con este mar y sus múltiples bellezas."

"I was born in Asturias, a region on the shore of the Cantabrian Coast in the north of Spain. That is why my life has always been somehow related to the sea and its plentiful beauties."

Clara Becares
Functional analyst, Bilbomática

@EuropeAtlasSeas European Commission

EU Maritime & Fish and 9 others

10:08 am · 26 Jan 2023 · 651 Views

View Tweet analytics

2 Retweets 1 Quote Tweet 9 Likes

European Atlas of the Seas
@EuropeAtlasSeas

New #Atlas #interview: this month, meet Chantal Vanhove & Zoi Konstantinou from the European Commission's Directorate General for Maritime Affairs and Fisheries @EU_MARE!

[webgate.ec.europa.eu/maritimeforum/...](https://webgate.ec.europa.eu/maritimeforum/)

#LearnWithTheAtlas #OceanLiteracy #ESDfor2030

"De zee is de bron van het leven en leven zonder zee is niet mogelijk"

The sea is the source of life and life without the sea is not possible.

Chantal Vanhove
European Commission, DG MARE

"Ἡ ζωὴ μου, ἡ δουλειά μου καὶ οἱ πιο ἀνέμελες στιγμές μου εἶναι συνδεδεμένες με τὴ θάλασσα. Θέλω νὰ συμβάλω πρὸς μιὰ κοινωνία που θὰ ἀσβέται καὶ θὰ προστατεύει τὴς θάλασσές μας"

My life, my work and my most carefree moments are connected to the sea. I want to contribute towards a society that will respect and protect our seas.

Zoi Konstantinou
European Commission, DG MARE

@EuropeAtlasSeas European Commission

EMODnet and 9 others

11:10 AM · Feb 28, 2023 · 1,854 Views

7 Retweets 15 Likes

Education for Climate Challenge

<https://education-for-climate.ec.europa.eu/community/Atlas/topic/what-water-temperature-your-sea-river-lake-pond>

Leerlingen worden data providers: samen werken voor een nieuwe kaart!
Alle metingen moeten binnen zijn voor 31 maart 2023



Log in

Home Your Profile Members & Groups Content Challenges Events & News About

Challenge Let's explore, collect and report | 11 Sep 2022 - 31 Mar 2023

Be a scientist! Mapping climate change at seas & waterways

Share this page



3

ideas

45

participants

6

phases

[See challenge information](#)

Stream Ideas About Events Topics Participants

Participate in and get to experience science & research from behind the scenes of the European Atlas of the Seas!

Useful links

European Atlas of the Seas

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

Teachers Corner

<http://Learn.european-atlas-of-the-seas.eu>

My Maps survey

<https://ec.europa.eu/eusurvey/runner/EuropeanAtlasoftheSeasSurveyMyMaps>

Article in Science in School

<https://www.scienceinschool.org/article/2023/european-seas-atlas/>

UNESCO Ocean Literacy Guide

https://oceanliteracy.unesco.org/wp-content/uploads/2020/09/OceanLiteracyGuide_V3_2020-8x11-1.pdf

UNESCO Ocean Literacy Portal

<https://oceanliteracy.unesco.org/>



Let us know what you need!

- What topics do you teach in class for which you would like to have ready to use exercises and activities?
- Have you already used the Atlas? What is your feedback? Do you have suggestions for improvements?
- What do you like most about the Atlas?
- Have you encountered difficulties with the Atlas? If so, can you describe them?
- What do you think you will use the Atlas for?





Thank you!
nathalie.van.isacker@emodnet.eu



European
Commission



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