

# European



# MARINE BOARD

Advancing Seas & Ocean Science



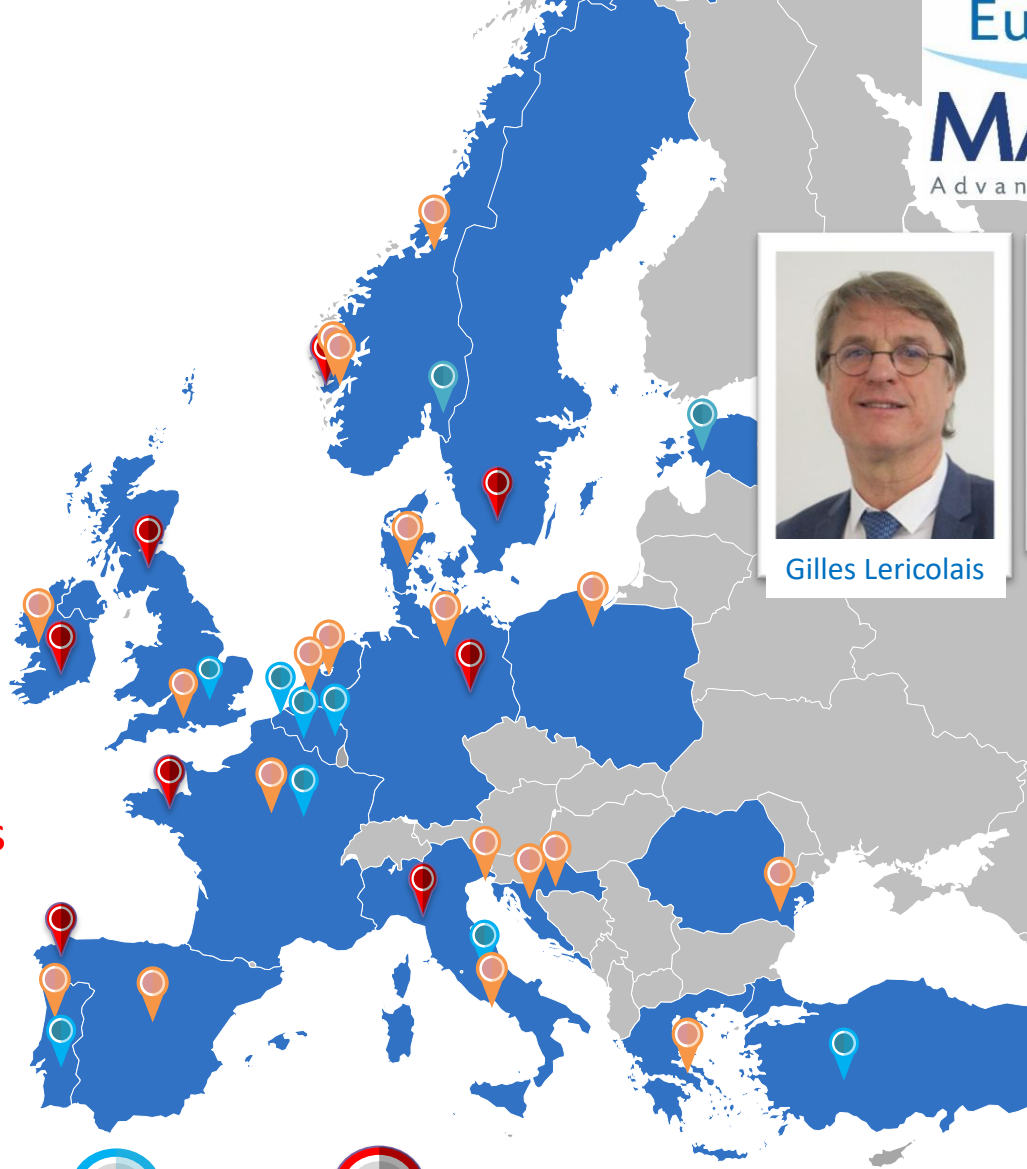
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***The European Marine Board bridges  
the gap between science and policy  
by providing high-quality advice***



A unique  
European  
partnership of  
major **marine and  
oceanographic  
institutes,**  
**research funding  
agencies** and  
**national networks  
of universities**



RESEARCH PERFORMING  
INSTITUTES



RESEARCH FUNDING  
ORGANIZATIONS



NETWORKS AND  
UNIVERSITY CONSORTIA

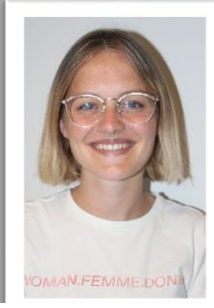
**37** MEMBERS FROM  
**18** COUNTRIES



Gilles Lericolais



Sheila Heymans



Jana Van Elslander



Paula Kellett



Ana Rodriguez

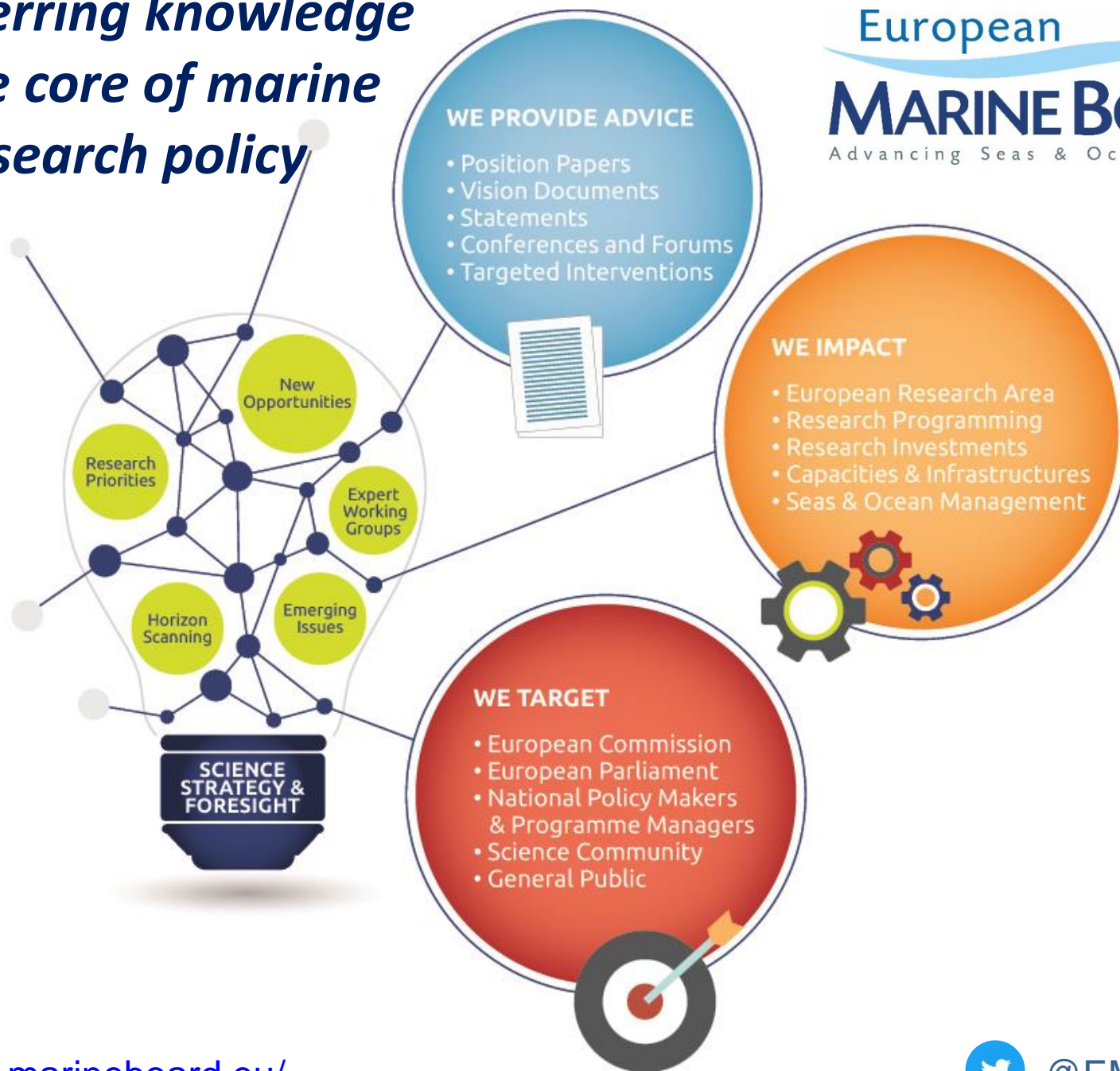


Britt Alexander



Ángel Muñiz  
Piniella

# *Transferring knowledge to the core of marine research policy*





# Providing Advice:

## 9 EurOCEAN Conferences:

1993 Brussels;      1995 Sorrento;  
1998 Lisbon;        2000 Hamburg;  
2004 Galway;        2007 Aberdeen;  
2010 Ostend;        2014 Rome;  
2019 Paris;        **2023 Vigo.**

## 8 EMB Forums (Brussels):

2008: Marine Data;  
2010: EOOS;  
2012 New Technology;  
2014: Arctic 2050;  
2015: Ocean-climate nexus;  
2017: UN 2030 Agenda;  
2020: Big Data;  
2021: Ocean Decade.

## 46 Strategic Publications:

26 Position Papers;  
9 Future Science Briefs;  
10 Policy Briefs;  
2 Science Commentaries.

## 6 Brown bag lunches (Brussels):

Oct 2018: Food from the Ocean;  
Feb 2019: Marine Spatial Planning;  
Oct 2019: Marine Stations;  
Feb 2020: Blue Carbon;  
June 2022: Offshore Groundwater;  
Feb 2023: Carbon Capture & Storage.

## Targeted Interventions:

EOOS;  
Ocean Decade;  
Mission Ocean.



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# EurOCEAN

ONE OCEAN ONE VOICE **2023**

**Vigo Spain** - Auditorio y Palacio de Congresos  
Mar de Vigo

**10-11 October 2023**

**150-250 participants**

## Organizers:

- CETMAR, IEO-CSIC
- Spanish Presidency of the Council of EU
- DG RTD
- JPI Oceans
- EuroMarine
- EurOcean network
- EuroGOOS

Highlight synergies between different EU strategies (EU biodiversity, Green Deal, Nature restoration, Adaptation to climate change, MSFD, CFP, WFD, Farm to Fork), the Ocean Decade and the Mission Restore our Ocean and Waters.



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# Brown Bag Lunches (Brussels):

October 2018: Mark James

Key drivers and challenges for the Food from the Ocean.

February 2019: Vanessa Stelzenmüller

Ecosystem-based management and the role of Marine Spatial Planning.

October 2019: Matt Frost

Why marine stations are essential to address societal challenges?

February 2020: Hillary Kennedy

Blue Carbon

June 2022: Aaron Micallef



Offshore groundwater

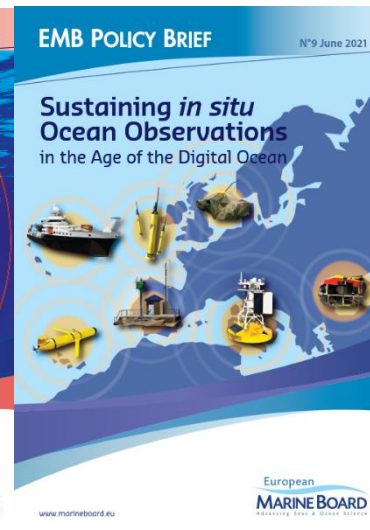
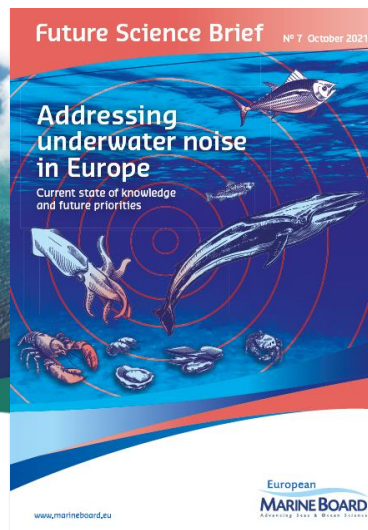
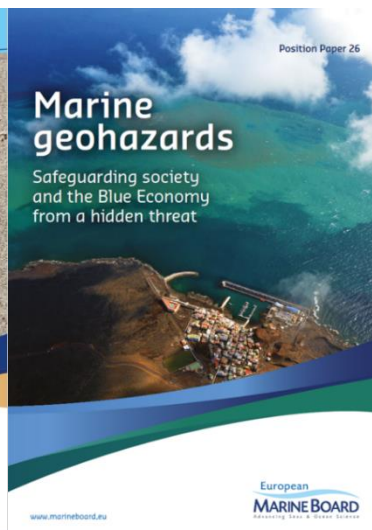
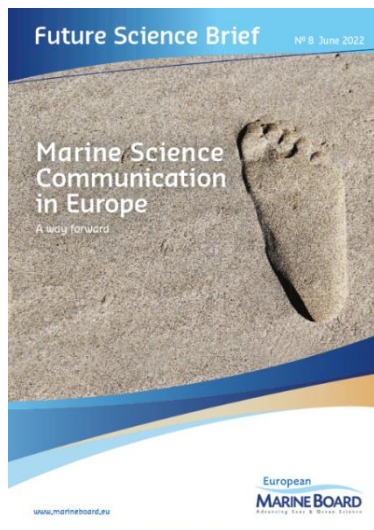
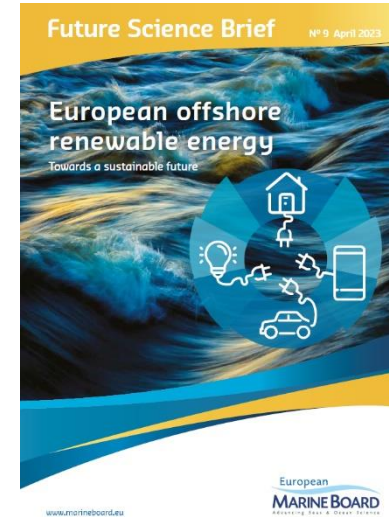
February 2023: Doug Connelly

Carbon Capture and Storage



# Recent Strategic Publications:

- Offshore Renewable Energy:** Future Science Brief No. 9, 2023 
- Marine Science Communication:** Future Science Brief No. 8, 2022 
- Marine Geohazards:** Policy Brief No. 10, 2022 
- Marine Geohazards:** Position Paper No. 26, 2021
- Addressing Underwater Noise:** Future Science Brief No. 7, 2021 
- Sustaining *in situ* Ocean Observations:** Policy Brief No. 9, 2021
- Policy Needs for Oceans and Human Health:** Policy Brief No. 8, 2020
- Big Data in Marine Science:** Future Science Brief No. 6, 2020





# Current Activities:

## 6 Working Groups:

Coastal Resilience;  
Marine Habitat Mapping;  
Ocean Oxygen;  
Navigating the Future VI;  
Deep Sea and Ocean Health;  
Blue Carbon.

## 5 EU-funded projects/tenders:

EMODnet;  
H2020 EuroSea;  
H2020 Bridge-BS;  
H2020 EcoScope;  
ERASMUS+ FLORES



**BRIDGE-BS**  
Blue Growth Initiatives | Service Dynamics | Empowered Citizens

**EuroSea**

## 2 Plenary meetings annually:

Spring (April / May - online);  
Autumn (October / November);



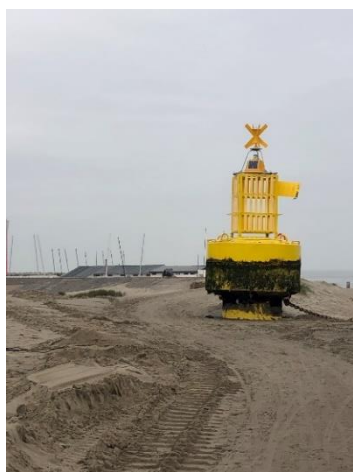
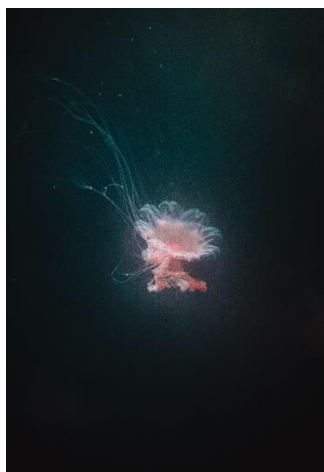
**EMODnet**



**EcoScope**



**FLORES**  
Offshore Renewable energies  
partnership in the Pact for Skills



# Ocean Oxygen:

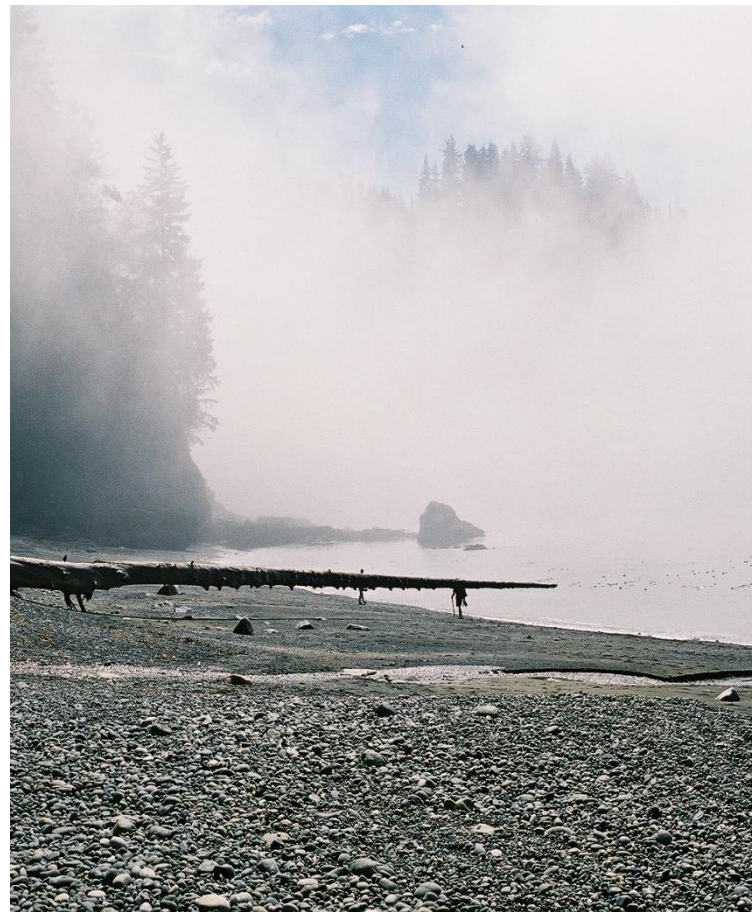
**WG launch June 2022**

**Publication planned June 2023**

## **Future Science Brief 11**

- Explain the science behind the statement ‘every second breath comes from the Ocean’;
- Communicate and raise awareness of the problem of Ocean deoxygenation;
- Provide state of the art on research;
- Highlight interconnectedness of life through biochemical cycles; and
- Provide recommendations for future research priorities.

**Working Group:** Marilaure Gregoire (University of Liege, Belgium - Chair), Andreas Oschlies (GEOMAR, Germany – Co-Chair), Donald Canfield (University of Southern Denmark), Carmen Castro (IIM-CSIC, Spain), Irena Ciglenecki-Jusic (IRB, Croatia), Peter Croot (NUI Galway, Ireland), Karine Salin (IFREMER, France), Birgit Schneider (University of Kiel, Germany), Pablo Serret (University of Vigo, Spain), Caroline Slomp (Utrecht University, Netherlands), Tommaso Tesi (CNR, Italy), Mustafa Yucel (METU, Turkey)



# Coastal Resilience:

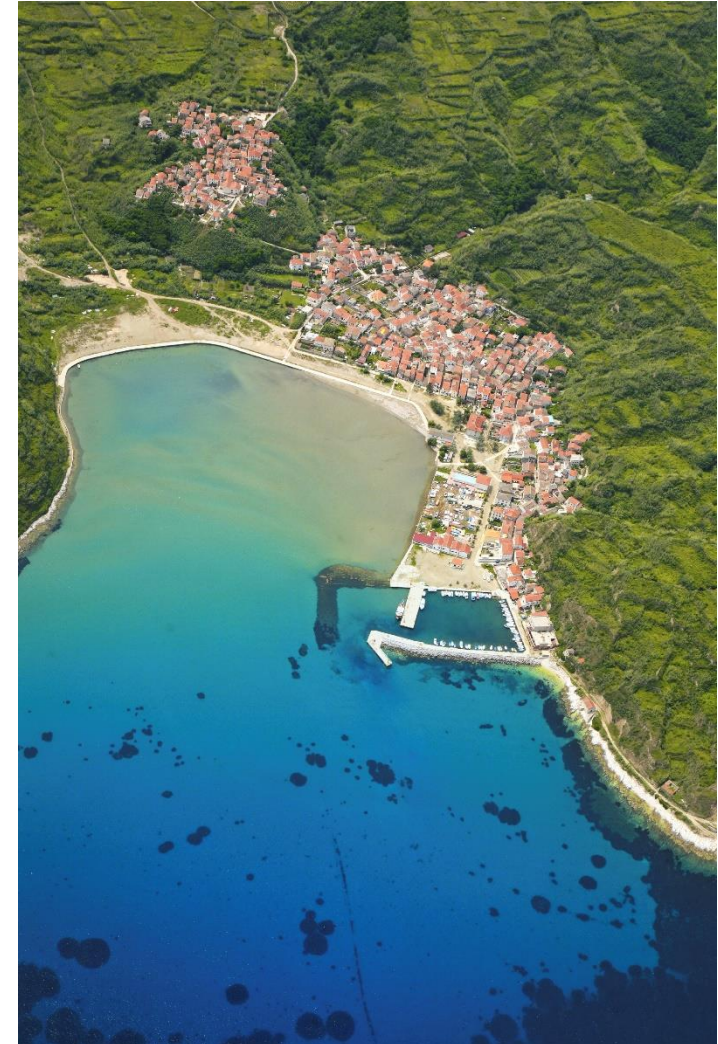
**WG launch January 2021**

**Publication planned October 2023**

## **Position Paper 27**

- Introduction: What is coastal resilience? Why do we need resilient coasts?
- Current evidence to support coastal resilience
- Coastal pressures
- Barriers to achieving coastal resilience
- Enablers of coastal resilience (technical and political tools)
- Conclusions and recommendations

**Working Group:** Sebastian Villasante (University of Santiago de Compostela, Spain - Chair) & Kristin Richter (NORCE, Norway - Co-Chair); Eugene Farrell (NUI Galway, Ireland); Isabel Sousa Pinto (CIMAR, Portugal); Remi Mongruel (Ifremer, France); Thorsten Blenckner (Stockholm Resilience Centre, Sweden); Frederic Bouchette (CNRS, France); Margaret Chen, Vrij Universiteit Brussels, Belgium); Donata Melaku Canu (OGS, Italy); Andres Payo (MASTS, UK); Liam Lachs (Newcastle University; UK).





# Marine Habitat Mapping:

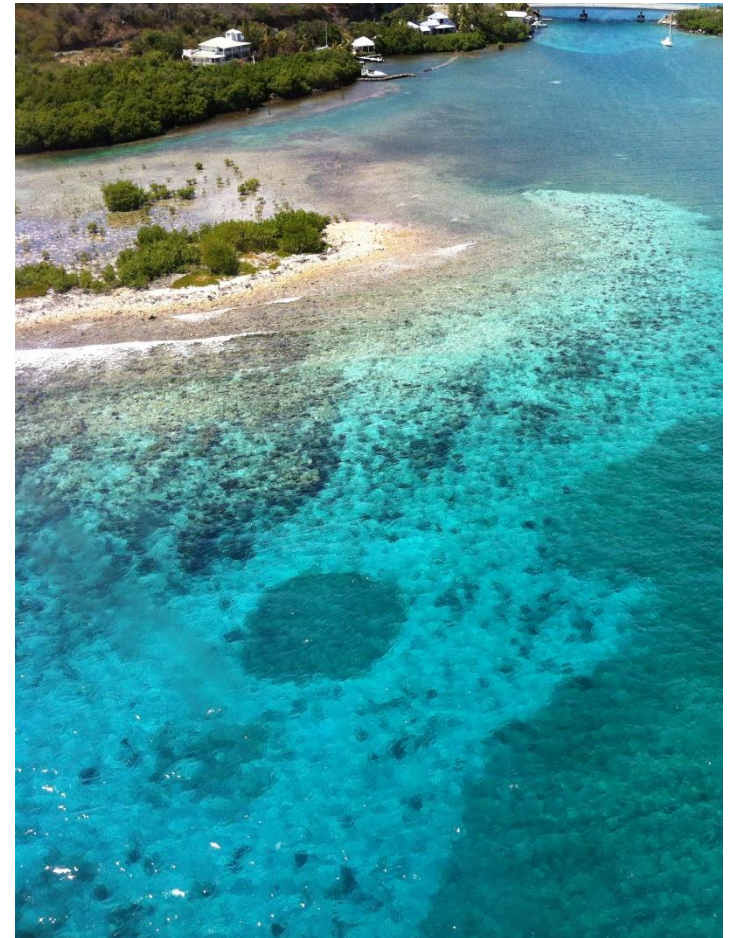
**WG launch April 2022**

**Publication planned late 2023**

## **Future Science Brief 12**

- Highlight research state of the art on habitat mapping;
- Emerging and future technology for mapping;
- Standardizing methodology;
- Recommendations on filling mapping gaps;
- Linking to habitat-relevant policy;
- Evaluating current classification systems; and
- Recommendations to improve access to data and infrastructure.

**Working Group:** Simonetta Frascchetti (University of Naples Federico II & SZN, Italy - Chair), James Strong (NOC, UK – Co-Chair), Eimear O’Keeffe (MI, Ireland), Maria Salomidi (HCMR, Greece), Timm Schoenig (GEOMAR, Germany), Federica Foglini (CNR-ISMAR, Italy), Helen Lillis (JNCC, UK), Jorge Goncalves (CCMAR, Portugal), Georg Martin (University of Tartu, Estonia), Mats Lindegarth (University of Gothenburg, Sweden), Lene Buhl Mortensen (IMR, Norway), Lenaick Menot (IFREMER, France), Jose Manuel Gonzalez-Irusta (IEO, Spain), Antonio Pascoal (IST, Portugal)





# Deep Sea and Ocean Health:

**WG launch February 2023**

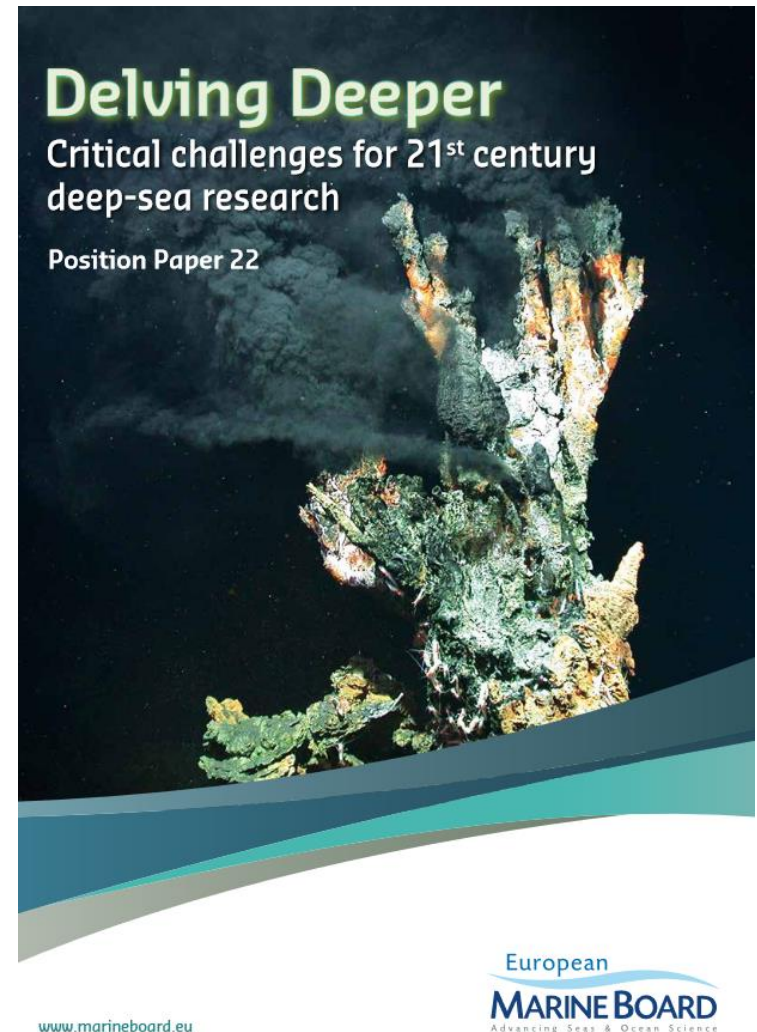
**Publication planned spring 2024**

**Future Science Brief 13**

Update Position Paper 22: Delving Deeper:  
Critical challenges for 21<sup>st</sup> century deep sea  
research

- Outline current policy- and research funding status and recommendations wrt deep sea
- Provide updated state-of-the-art on deep sea natural and social science research...

**Working Group:** Sylvia Sander (GEOMAR, Germany - Chair), Christian Tamburioni (CNRS and MIO, France - Co-Chair, Roberto Danovaro (SZN, Italy), Sabine Gollner (NIOZ, Netherlands), Beuenn Guilloux (UM, France), Henk-Jan Hoving (GEOMAR, Germany), Igor Isajlovic (IOF, Croatia), Bhavani Narayanswamy (MASTS, UK), Ellen Pape (FWO, Belgium), Marzia Rovere (CNR, Italy), Miguel Semedo (CIIMAR, Portugal), Pedro Velez Belchi (IEO, Spain)



# Blue Carbon:

**WG launch January 2023**

**Publication planned summer 2023**

## Policy Brief

Short document to highlight:  
Why do we need Blue carbon  
The Ocean carbon budget and  
the Biological Carbon pump  
Some examples of Blue Carbon  
Uncertainties and questions about  
Blue Carbon and climate change

**Working Group:** Sheila Heymans (EMB - Chair), Griet Neukermans (Ugent, Belgium), Hans-Otto Pörtner (AWI, Germany), Jean-Pierre Gattuso (CNRS, France), Nathalie Hicks U Essex, UK), Peter Landschützer (VLIZ, Belgium)



2021  
2030  
United Nations Decade  
of Ocean Science  
for Sustainable Development



**Objective 1, 3**



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# Navigating the Future VI:

**WG launch October 2022**

**Publication planned 2024**

## Flagship EMB Position Paper

- Foresight document highlighting the future direction of marine science research;
- Influence and guide International, European and national funding programmes;
- Presenting the role of the Ocean in the wider Earth system;
- Four main chapters:
  - Ocean and People;
  - Ocean and Climate;
  - Ocean and Fresh Water;
  - Ocean and Biodiversity.

**Working Group:** Gilles Lericolais (Chair of EMB and working group), Sheila Heymans (Executive Director and working group co-Chair) plus representation from all EMB member organizations



# Targeted Interventions:

European Projects and tenders



- H2020 EU project started Nov 2021 and will run to Aug 2025;
- 24 partners;
- Coordinator: Aristotle University of Thessaloniki, Greece;
- 7.9 mil EUR;
- EcoScope will develop tools for ecosystem-based management of fisheries;
- EMB is leading work package 8 on interaction with stakeholders and capacity building;
- <https://ecoscopium.eu/>



- H2020 EU project started June 2021 and will run to Nov 2025;
- 33 partners;
- Coordinator: Middle East Technical University, Turkey;
- 9.5 mil EUR;
- BRIDGE-BS aims to enhance the science-based policy in the Black sea region;
- Develop blue growth while maintaining and protecting resilient ecosystems;
- EMB is supporting on the preparation of a Policy Brief;
- <http://bridgeblacksea.org/>



- ERASMUS+ project started Jan 2023 and will run to Dec 2024;
- 15 partners;
- Coordinator: CETMAR, Spain
- 0.7 mil EUR;
- FLORES aims to contribute solutions to training for the offshore renewable energy sector;
- Identify gaps and address needs in the sector;
- EMB is supporting on providing recommendations from marine science and in communications;
- <https://oreskills.eu>

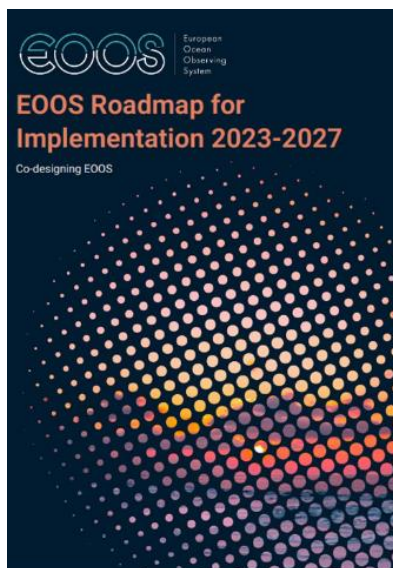


# Targeted Interventions:



**EOOS is the infrastructure, platforms, sensors, and people that gather essential data and information about Europe's ocean, seas and coastal waters.**

**Vision:** A European Ocean Observing System that is sustained and meets the specific needs of users.

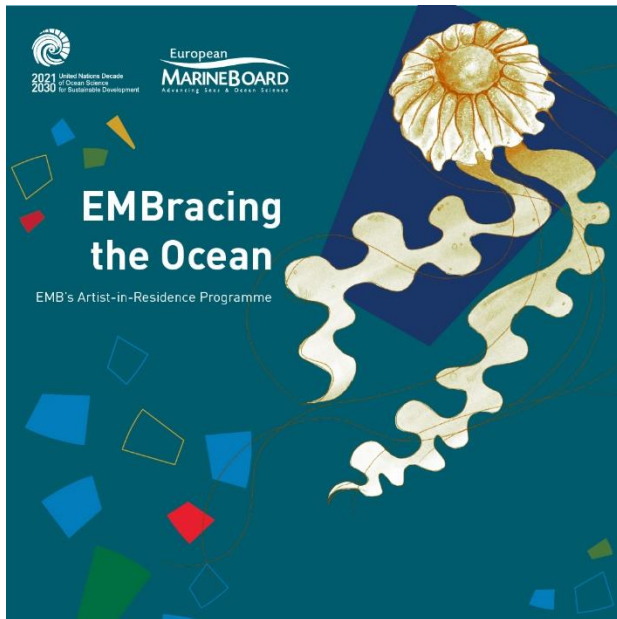


- H2020 EU project started Nov 2019 and will run to Dec 2023;
- 55 partners;
- Coordinator: Geomar, Germany
- 12.6 mil EUR;
- EuroSea will improve:
  - European and international coordination;
  - design of the observing system adapted to European needs;
  - in situ observing networks;
  - data delivery;
  - integration of remote and in-situ data; and forecasting capability.
- EMB is leading tasks on foresight in ocean observations
- <https://www.eurosea.eu/>

# EMB and the Ocean Decade:



First Ocean Decade Implementing Partner – December 2021;  
Supporting via **foresight**, **coordination** and **communication**;  
0.5 FTE Secretariat effort in support of the Ocean Decade;  
Ocean Decade newsletter series;  
Supporting events and webinars, e.g. EurOCEAN 2023, 8<sup>th</sup> EMB Forum.



## EMBracing the Ocean

Artist in residence programme;  
2 artists, 1 year, 10000 EUR;  
Inspire Ocean engagement;  
International programme;  
Link artists and scientists;  
EMB selection committee.



# EMB and the Mission Ocean :

Endorsed the Mission Ocean charter;  
Highlight relevance in EMB publications;  
EMBracingtheOcean artist projects endorsed;  
Share Secretariat and member activities for Mission Ocean;  
Communicate about Mission Ocean in newsletter and social media;  
Supporting events and webinars, e.g. EurOCEAN 2023, Spring Plenary 2022 online Open Session.





# Science Webinars:

## Science Webinars

Series started August 2020

Recent editions:

February 2022: Oceans and Human Health;  
March 2022: Decommissioning of Offshore Structures;  
April 2022: EMB Young Ambassadors;  
May 2022: Deep Sea;  
June 2022: Research Vessels;  
August 2022: Marine Biotechnology and Bioeconomy;  
September 2022: Marine Genetic Resources;  
October 2022: Marine Protected Areas;  
December 2022: Machine learning and plankton;  
January 2023: Uncertainty and risk;  
February 2023: Sea ice ocean interactions in the Arctic;  
March 2023: EMB Young Ambassadors;  
April 2023: EMBracing the Ocean artists;  
June 2023: Offshore renewable energy.

EMB #ThirdThursdayScience Webinar Series  
*Showcasing the science behind EMB publications*

Dive into the science which  
underpins the EMB  
publications with the scientists  
behind it!

Third Thursday of every month  
13:00 - 14:00 CEST  
<https://www.marineboard.eu/science-webinars>  
Register now!

Find all past webinars on our YouTube Channel:

<https://www.youtube.com/channel/UCcBGY9IckBVRijeW-0a1CsQ/videos>

<http://www.marineboard.eu/science-webinars>



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# EMB Young Ambassadors:

Marine PhD's and Post-Docs engage with EMB and its activities;  
Help promote marine science and the EMB;  
2 new Young Ambassadors per year, 2-year term – then alumni;  
2000 EUR grant to Ambassadors plus 3000 EUR budget to support  
EMB dissemination and communication;  
New call for Ambassadors every year in February;  
Call for Ambassador mentors.



<https://www.marineboard.eu/ambassador-blog> to hear their ideas!

<http://www.marineboard.eu/emb-young-ambassador-programme>



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# EMB ECOP Network:

- For Early Career Ocean Professionals (ECOPs) at EMB member organizations
- Established by EMB Young Ambassadors and Secretariat
- Opportunity to network and meet peers across Europe
- Gain a voice at EMB level
- Dedicated Slack channel to keep in touch and discuss
- Monthly ECOP Wednesdays event series

European  
**MARINE BOARD**

Advancing Seas & Ocean Science

European Marine Board ECOP Network

For Early Career Ocean Professionals (ECOPs) based at EMB member organizations

## ECOP Wednesdays

Discovering the European Marine Science Policy Landscape

Join us on the first Wednesday of every month over lunch for a webinar series covering different aspects of the European marine science policy landscape!






# Connecting with EMB:

Sign up to EMB newsletter (weekly or big announcements);  
<https://www.marineboard.eu/emb-newsletter>

Submit news of European interest (e.g. events, jobs, etc.) for EMB to share in newsletter and/or on social media;

Request hard copies of EMB publications;

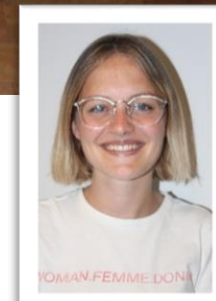
Follow and engage with EMB on social media;

-  @EMarineBoard
-  @EMarineBoard
-  European Marine Board IVZW
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# Thank you



[info@marineboard.eu](mailto:info@marineboard.eu)  
[www.marineboard.eu](http://www.marineboard.eu)

