

European

MARINE BOARD

Advancing Seas & Ocean Science

Sheila Heymans

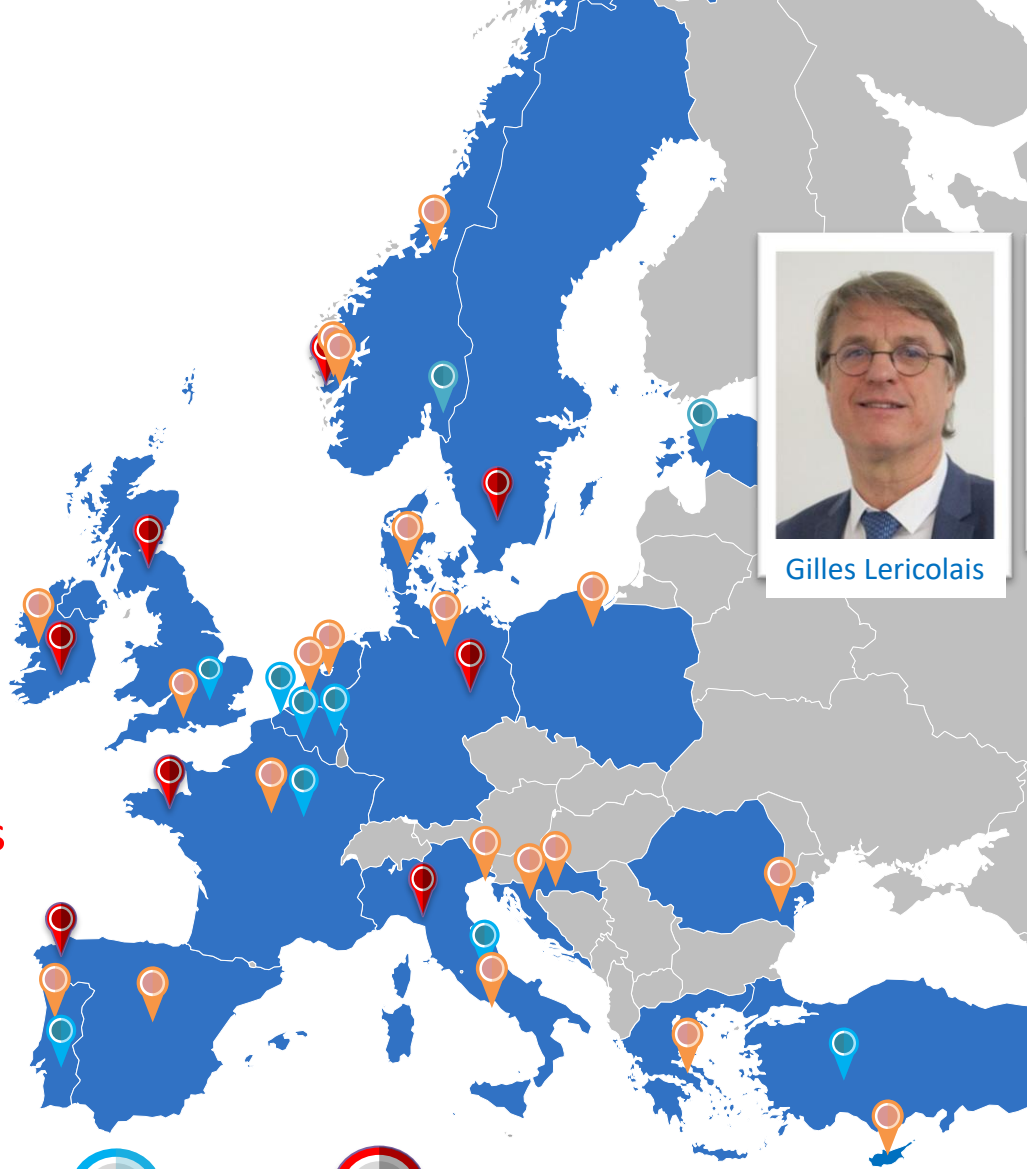


[@sheilaheymans](#)
[@emarineboard](#)

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

38 MEMBERS FROM

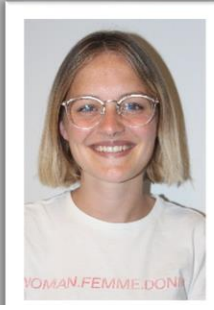
19 COUNTRIES



Gilles Lericolais



Sheila Heymans



Jana Van Elslander



Paula Kellett



Ana Rodriguez



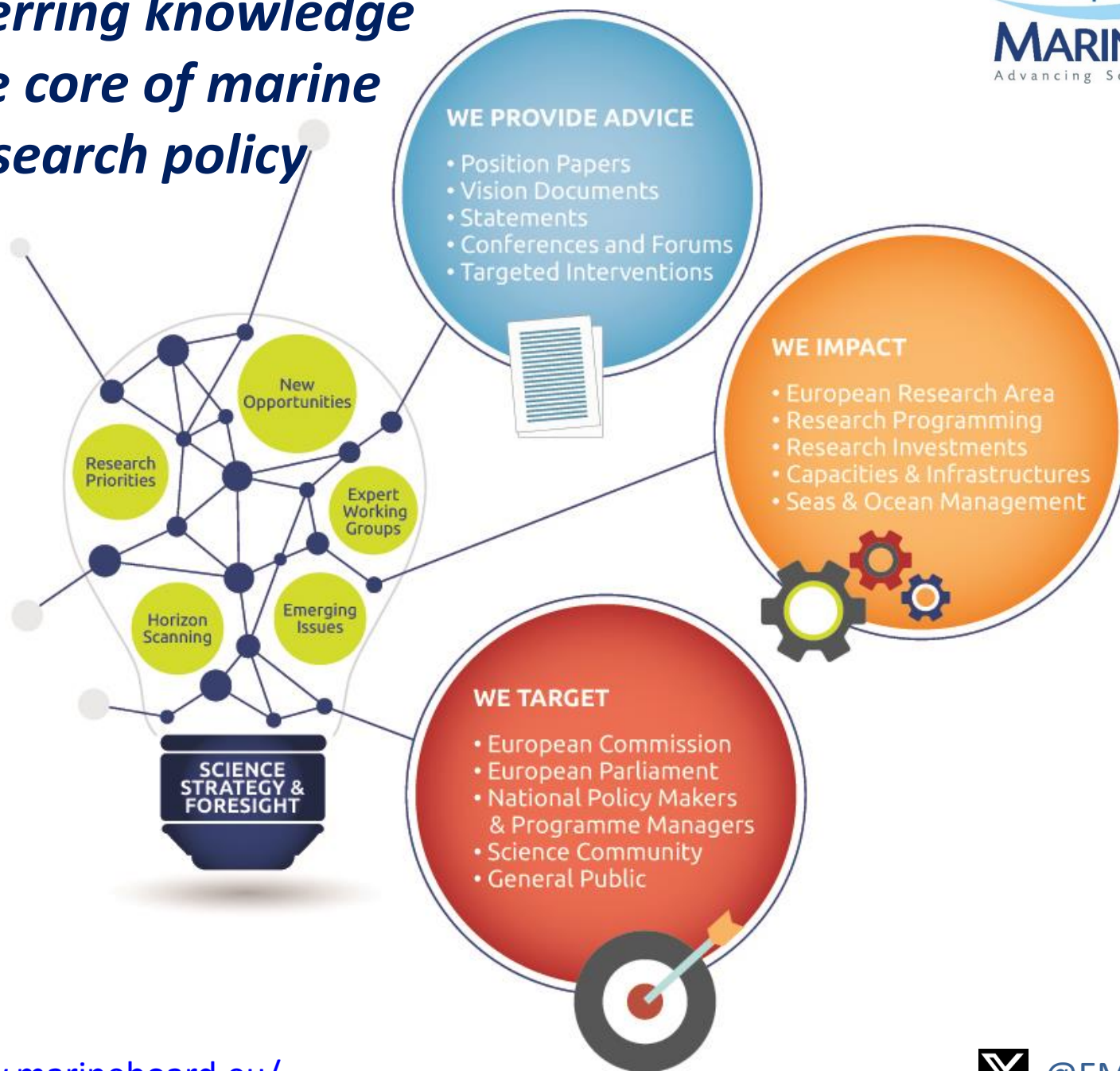
Britt Alexander



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;
Next TBC

50 Strategic Publications:

27 Position Papers;
10 Future Science Briefs;
11 Policy Briefs;
2 Science Commentaries.

7 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.
2024: Marine Habitat Mapping

Targeted Interventions:

EOOS;
Ocean Decade;
Mission Ocean.



Recent Strategic Publications:

Blue Carbon: Policy Brief No. 11, 2022

Building Coastal Resilience: Position Paper No. 27, 2023

Ocean Oxygen: Future Science Brief No. 9, 2023

Offshore Renewable Energy: Future Science Brief No. 9, 2023

Marine Science Communication: Future Science Brief No. 8, 2022

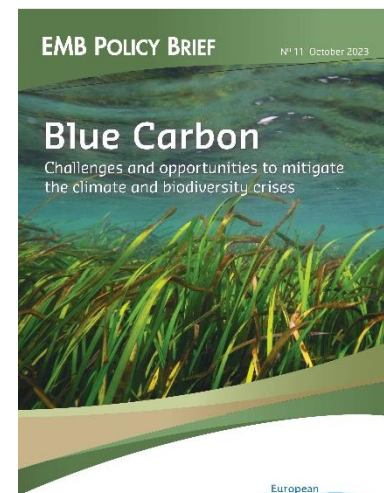
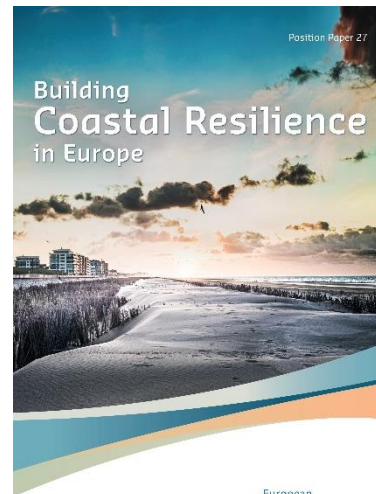
Marine Geohazards: Policy Brief No. 10, 2022

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



EurOCEAN Conference:



Vigo Spain - Auditorio y Palacio de
Congresos Mar de Vigo on **10-11 October**
~250 participants



Organisers: CETMAR, IEO-CSIC, Uvigo, Spanish Presidency of the Council of EU, DG RTD, JPI Oceans, EuroMarine, EurOcean Network, EuroGOOS

Highlighted 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.

<http://www.marineboard.eu/eurocean>



EMB Fora:

1st Forum:

Marine Data Challenges: from Observation to Information

2nd Forum:

"Towards a European Network of Marine Observatories for Monitoring and Research"

3rd Forum:

"New technologies for a blue future"

4th Forum:

"Arctic 2050, towards ecosystem-based management in a changing Arctic Ocean"

5th Forum:

"The Ocean-Climate Nexus: The critical role of ocean science in responding to climate change"

6th Forum:

"Implementing the UN 2030 Agenda: What role for marine science?"

7th Forum:

"Big Data in Marine Science"

8th Forum:

Supporting the Ocean Decade in Europe

9th Forum:

TBC



Brown Bag Lunches in 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



2024: Marine Habitat Mapping

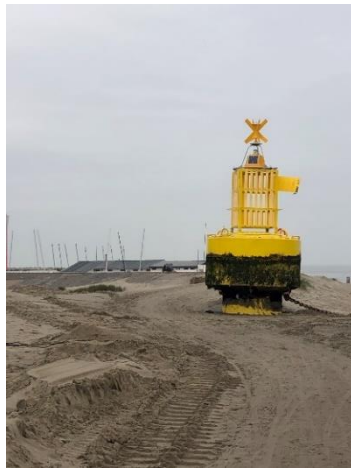
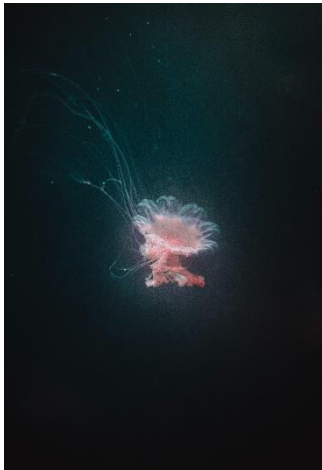
Current Activities:

4 Working Groups:

Marine Habitat Mapping;
Navigating the Future VI;
Deep Sea and Ocean Health;
Marine Carbon Dioxide Removal

2 Plenary meetings annually:

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



6 EU-funded projects/tenders:

H2020 Bridge-BS;
H2020 EcoScope;
H. EU RHE-Mediation;
H. EU Bamboo;
ERASMUS+ FLORES
EMODnet tender ;
IPOS tender



BRIDGE-BS
Blue Growth Initiatives | Service Dynamics | Preparedness Clusters



EcoScope



FLORES
Offshore Renewable energies
partnership in the Pact for Skills



EMODnet

IPOS



@EMarineBoard

Navigating the Future VI:

WG launch October 2022

Publication planned autumn 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



Marine Habitat Mapping:

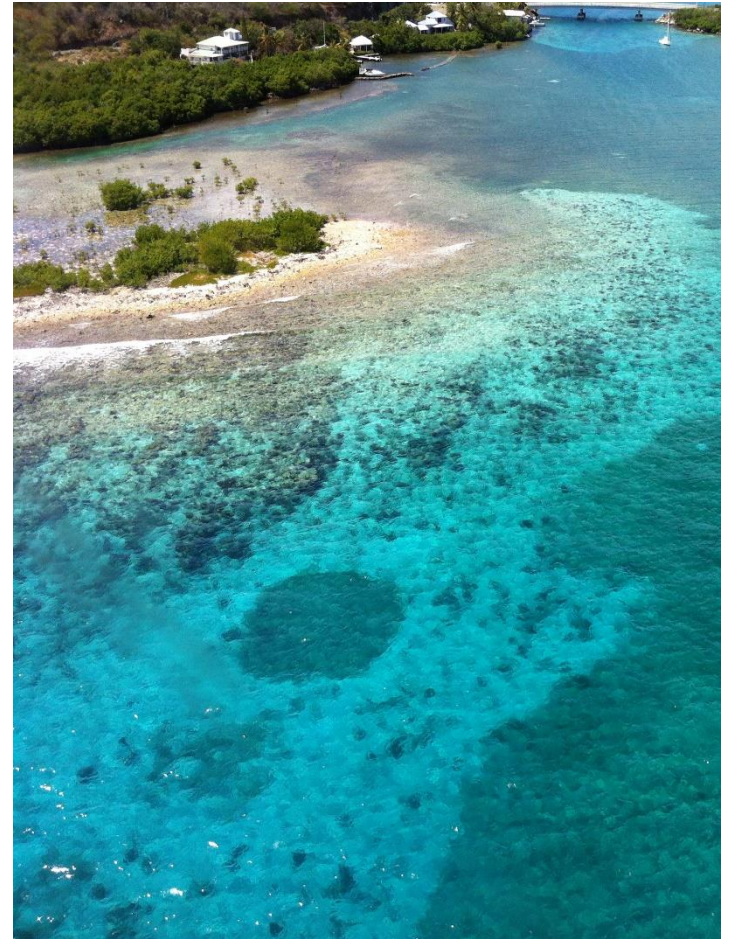
WG launch April 2022

Publication planned June 2024

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 Fraschetti (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

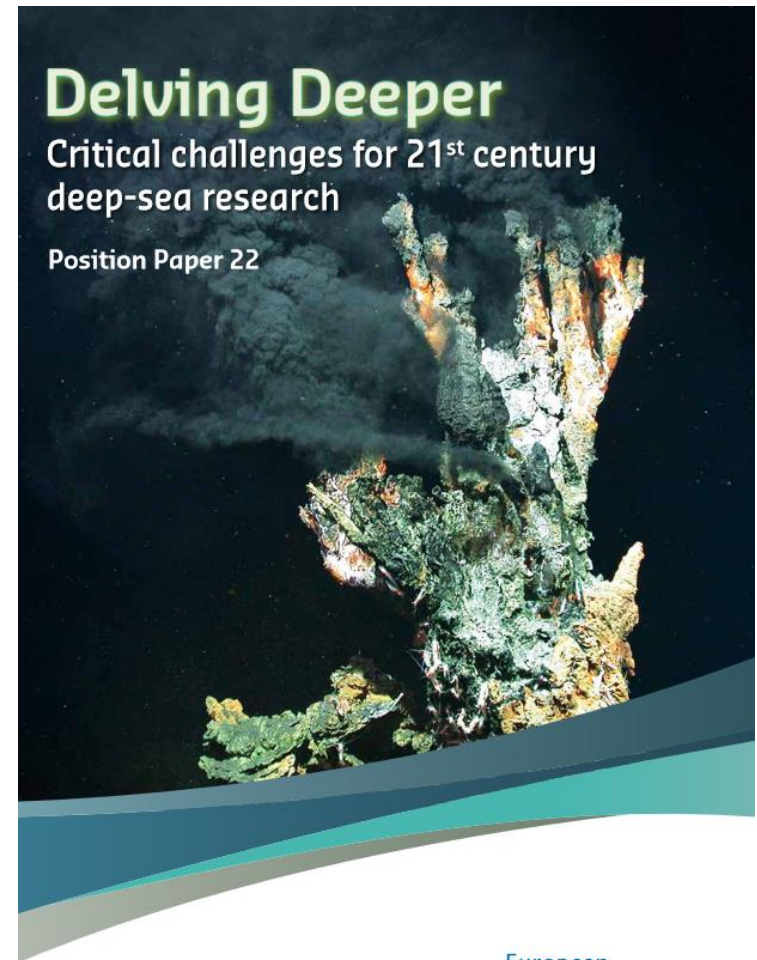
Publication planned late 2024

Future Science Brief 13

Update Position Paper 22: Delving Deeper: Critical challenges for 21st 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)



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Marine Carbon Dioxide Removal:

WG launch summer 2024

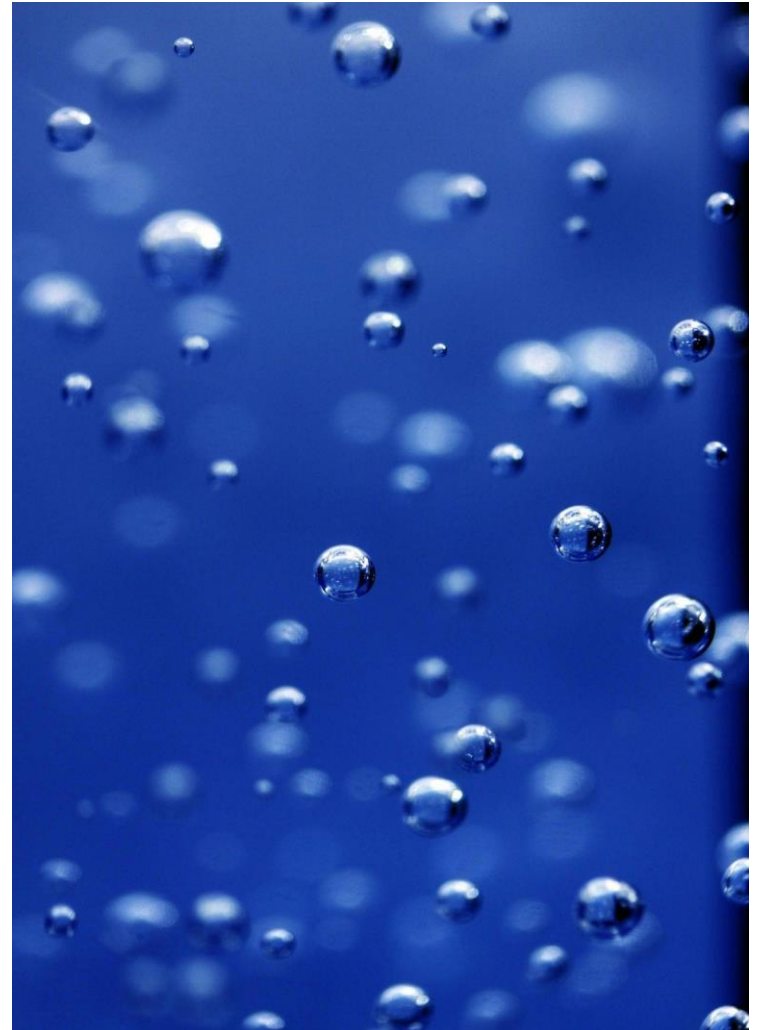
Publication planned 2025

Future Science Brief 14

Focus on monitoring, reporting and verification of marine carbon dioxide removal activities

- Explain role of the Ocean and impacts of climate change for CO₂ uptake;
- Present removal needed to help achieve climate objectives and methods for that;
- Overview of methods to increase marine-based removal;
- Discuss policy and regulatory frameworks needed;
- Determine principles and research needs going forward.

Working Group: Chair: Helene Muri (NTNU, Norway), Co-Chair: Olivier Sulpis (CEREGE - Aix-Marseille University, CNRS, IRD, France)



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/>

SURIMI

- Horizon Europe following on from EcoScops
- Started May 2024 and will run to April 2027;
- 3 mil EUR;
- SURIMI's overall objective is to develop social-ecological models and user-friendly solutions that will be integrated in an interoperable and standardized manner within the European DTO to generate policy analysis rooted in management strategy evaluation (MSE) principles

Targeted Interventions:

European Projects and tenders



- 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:

European Projects and tenders



- Horizon Europe project started June 2023 and will run to May 2026;
- 11 EU partners;
- Coordinator: RINA Consulting SPA, Italy;
- 17 mil EUR;
- RHE-Mediation aims to establish and deploy a responsive long-term governance hub to destress the Mediterranean Sea from chemical pollution
- EMB will collate the key outcomes from the case studies and workshops, and from the market perspectives and lifecycle assessment into a comprehensive policy document
- <https://rhemediation.eu/>



- Horizon Europe project started in January 2024 and will run to December 2026;
- 14 EU partners;
- Coordinator: RINA Consulting SPA, Italy;
- 6.9 mil EUR;
- BAMBOO aims to expand the potential application, increase technology readiness, and minimise the environmental impact of Floating Solar (FPV) technology for offshore waters
- EMB will create a Policy Brief based on the outcomes of workshops with marine scientists to discuss the environmental aspects of FPV
- <https://www.marineboard.eu/bamboo>



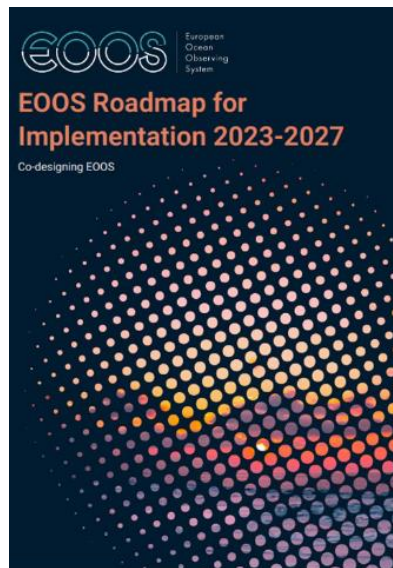
- DG MARE / CINEA Tender started in February 2024 and will run to December 2026;
- 14 EU partners;
- Coordinator: Ramboll, Germany;
- 6.9 mil EUR;
- IPES aims to provide the contracting authority (CINEA) and DG MARE with information and support for implementing their commitment related to the Intergovernmental Panel for Ocean Sustainability
- EMB Secretariat's main role will be to guide and advise on how to set up a professional running Secretariat

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.



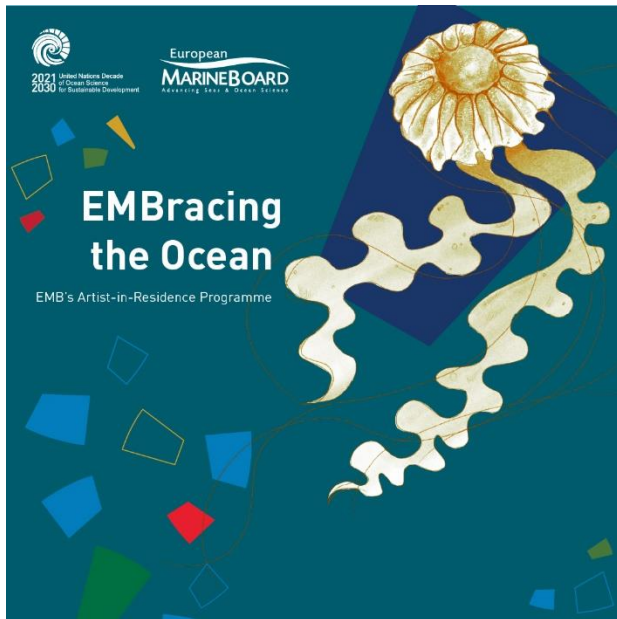
EMB and the Ocean Decade:



2021
2030
United Nations Decade
of Ocean Science
for Sustainable Development



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, 8th EMB Forum.



EMBracing the Ocean

Artist in residence programme;
2 artists, 1 year, 10,000 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;
'EMBracing the Ocean' 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:

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!

Science Webinars

Series started August 2020. Recent editions:

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;
July 2023: Interdisciplinary collaborations;
September 2023: Impact of Deoxygenation in Black Sea;
October 2023: Launch of Coastal Resilience PP;
November 2023: Building coastal and marine resilience;
December 2023: Citizen science, sailing and deoxygenation;
January 2024: Metocean data & offshore renewable energy;
February 2024: Blu carbon and Ocean finance;
March 2024: Underwater Noise Essential Ocean Variable;
April 2024: Interdisciplinary working;
May 2024: EMBracing the ocean artists.

Find all past webinars on our YouTube Channel:

<https://www.youtube.com/@europeanmarineboard9043/videos>

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

Young Ambassador Programme:

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;
2,000 EUR grant to Ambassadors plus 3,000 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>

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
- Monthly ECOP Wednesdays event series
- First EMB ECOP Network Forum event held October 2023 in Spain



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;



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European Marine Board IVZW



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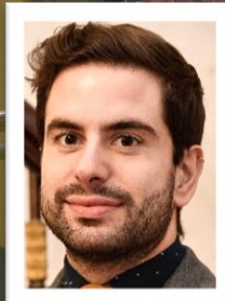
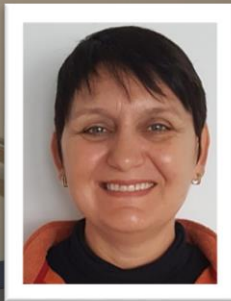


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Thank you



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