

European

**MARINE BOARD**

Advancing Seas & Oceans Science

# The Value of Membership



// The European Marine Board occupies an important place in the advisory process that underpins the marine research agenda in Europe. The Board provides a platform for our members to play an active role in that process. Using our extensive expert network, we channel scientific knowledge and foresight into generating high-quality policy advice that is ready to use by decision makers and research programme managers at European and national level. Our rigorous procedures for science foresight and peer review have been refined over many years. As a result, EMB enjoys a reputation for excellence in the service we provide to science, to society, and of course, to our members.

For our existing members, this brochure is a reminder of the active role we play on their behalf. For organizations that are not EMB members but interested in joining, the brochure provides a snapshot of the benefits and services that come with membership of EMB. The EMB celebrated 15 years in operation in 2014 and the rationale that led to our establishment back in the 1990s remains highly relevant today. Arguably, the stakes are even higher. There is a growing knowledge and appreciation of the importance of marine research in addressing known and emerging societal challenges, and a responsibility to direct research investments to where they are needed most. We look forward to working in partnership to meet these challenges in the next 15 years and beyond. //

Jan Mees

Chair, European Marine Board

# Transferring knowledge to the core of marine research policy

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



Research Performing  
Institutes



Research Funding  
Organizations



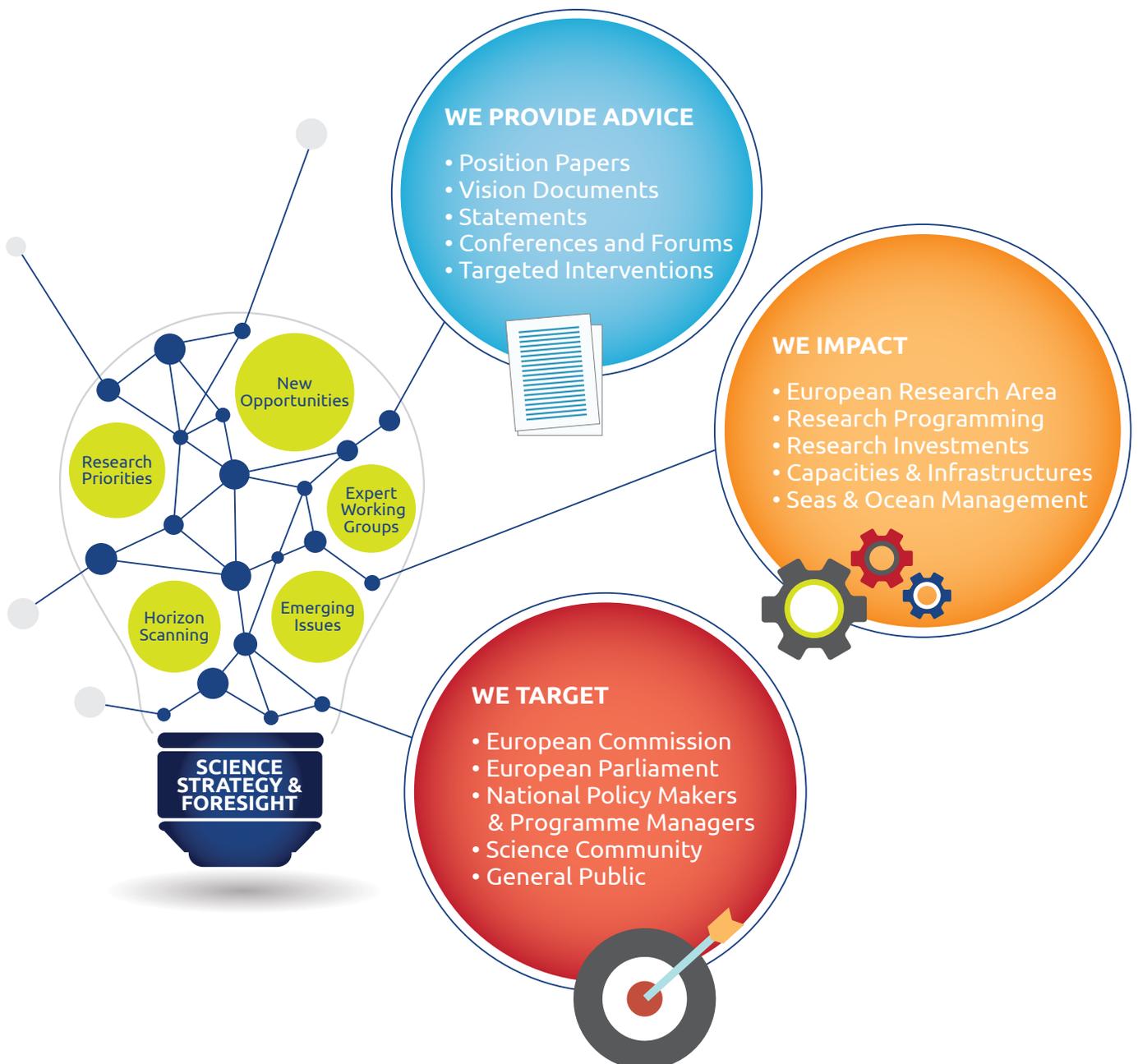
National University  
Networks

**36** members from  
**19** countries

# EMB Mission

The European Marine Board provides a platform for our member organizations to develop common priorities, to advance marine research, and to bridge the gap between science and policy to meet future marine science challenges and opportunities.

The European Marine Board is Europe's foremost think tank for marine science policy. Through its extensive pan-European scientific network, EMB identifies emerging scientific and societal challenges and opportunities and articulates the research and capacities needed to address them. In doing so, EMB acts at the interface between science and policy, advancing marine science and providing considered advice to decision makers and research programme managers. Acting in a leadership role, EMB works to foster European collaboration, promoting a European Research Area (ERA) for seas and ocean science.



# Delivering advanced policy documents

EMB has an outstanding reputation as a provider of high-quality science policy advice. This quality is underpinned by well-established and rigorous processes in scientific foresight. The Board draws on its pan-European scientific network to identify the best people to participate in expert working groups. Our membership both nominates the experts and provides an active editorial input during the preparation of policy documents. All our publications are peer-reviewed by leading global experts.

The result? Position Papers, Future Science Briefs, Vision Documents and Policy Briefs designed for a non-technical audience, providing recommendations for future research and capacity building which can be addressed by European and national funding mechanisms. Our policy documents are communicated actively to decision makers, the wider scientific community and a range of diverse stakeholders. In particular, they provide an invaluable service to those who influence, drive and set European research agendas.



“ The EMB, as the voice of the European marine science community, has a major influence on the science agenda in Europe, ensuring that ocean science is influencing policy on the most important societal issues.

When EMB speaks, decision makers listen. ”

**Wendy Watson-Wright,**  
**Executive Secretary of IOC-UNESCO (2010-2015)**

## Navigating the Future of marine science in Europe

The Navigating the Future series provides critical periodic foresight and recommendations on emerging marine science topics and needs and associated societal challenges and opportunities. Navigating the Future covers the full spectrum of marine science. Published in 2013, Navigating the Future IV has been recognized as a blueprint for the next phase of seas and ocean research in Europe.

“ Navigating the Future IV is particularly important as it foregrounds the fundamental role that marine research already plays and will play in the future... and will actively contribute to the Commission’s preparation of work programmes. ”

**Maria da Graça Carvalho,**

**MEP (2009-2014) & Rapporteur for the Specific Programme Implementing Horizon 2020**



“ The European Marine Board plays a major role in promoting marine science and technology in Europe which is vital for achieving sustainable ocean science and management... Navigating the Future IV will be a valuable source of ideas and common priorities in the area of marine sciences, providing a vision for science and technology in Europe. ”

**Máire Geoghegan-Quinn,**

**Commissioner for Research, Innovation & Science (2010-2014)**

# Stimulating dialogues



## EMB Forums and EurOCEAN Conferences

The EMB Biennial Forum provides a platform for EMB members, partner organizations, scientists and European and national policymakers to interact on a particular topic or theme of strategic importance for European marine science.

EurOCEAN conferences are major European marine science policy conferences, co-organized approximately every 4 years by EMB and the European Commission in association with a national partner holding the EU Presidency. EurOCEAN provides a dynamic setting for the marine and maritime research community to communicate with European and Member State policymakers and strategic planners, to consider, discuss and respond to new marine science and technology developments, challenges and opportunities. Since EurOCEAN 2004, EurOCEAN conferences have delivered declarations, high-level policy statements with recommendations for the most significant seas and ocean research and policy challenges and opportunities.

These open events and other EMB organized workshops bring together scientists, decision makers and stakeholders to collectively address topics of identified scientific and societal importance. Through open dialogue, our events deliver joint visions and recommendations to advance the issue at hand.



# 16 Years of achievement and counting...

The EMB is one of Europe's longest established marine science networks and the only one that thematically covers the full spectrum of marine research. We can trace our history back to the European Marine and Polar Science Committee (EMaPS) which was formed in the mid-1990s. EMB as we know it today was established in 1999 and since then has grown and developed into a well-organized and highly-productive network, supported by a professional Secretariat.



“ The European Marine Board does an excellent job of highlighting important marine science issues and presenting their findings in reports that are accessible to policymakers. They are an important part of the science-policy discussion at European level. ”

**Lowri Evans,**  
Director-General, DG Maritime Affairs and Fisheries, European Commission

# Focus on Quality

We place a high level of importance in the quality of our science foresight procedures, the efficiency and organization of our meetings and events, and the rigour and usability of our strategic science policy advice. This focus on quality means that EMB has a reputation for excellence as a science policy interface. It also ensures the support and trust of the users of our advice including the European institutions and national research and funding agencies.



Credit: AWI, Germany

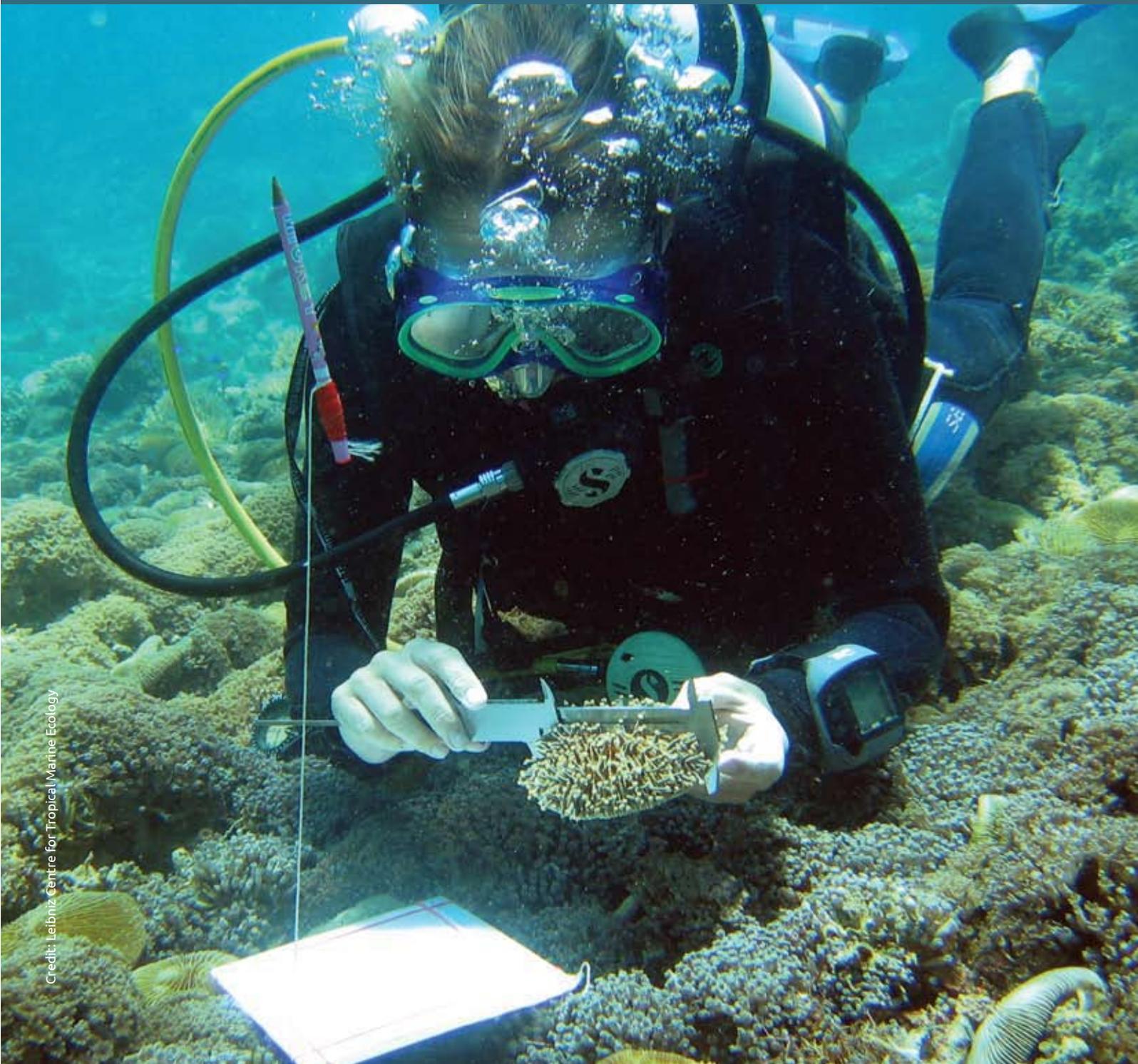


*“ The structure of the EMB, its breadth of membership, and the national and international status of its member agencies, ensures that any analysis or recommendation prepared by pooling the expertise of members will be totally authoritative at a European and global level. ”*

**Nic Flemming,**  
Chair of the EMB Working Group SUBLAND (2013-2014)

# Supporting sustainable ocean management and governance

While EMB is a science network, our policy advice contributes, not only to setting science agendas, but to sustainable ocean management and governance. Through addressing issues such as Marine Protected Areas, Ecosystem-Based Management, science support to the Marine Strategy Framework Directive, and supporting Blue Growth, the EMB promotes evidence-based and sustainable ocean governance, based on the best available scientific knowledge. This is supported by active and ongoing efforts to communicate marine science and promote ocean literacy, underpinned by the work of the EMB Communications Panel, an operational network of science communicators facilitated by the EMB.



Modelling Continental Shelf Ecosystem  
 Resources Marine Protected Area  
 Polar Coastal Marine Spatial Planning Energy  
 Biotechnology Science Policy Interface  
 MSFD Environment Sea Level Blue Growth  
 Ocean Acidification Marine Mammals Food Renewable  
 Research Infrastructure Research Fleets  
 Underwater Heritage Policy Data Technology  
 Pollution Fisheries GES Ocean Human Health  
 Capacity Building Training Ocean Literacy  
 Climate Change Biodiversity  
 Ocean Observation Microbial Deepsea



// The European Marine Board is uniquely positioned to rapidly identify cutting edge issues affecting the seas, oceans and stakeholders in Europe and beyond. In working with the EMB on the new meta-discipline of Oceans and Human Health over the past year, I have been continuously impressed with their knowledge and strategic thinking about the cutting edge issues, as well as the breadth of their stakeholder engagement in the EU marine community. Thanks to the extensive efforts of EMB, there is now a prominent Position Paper which has directly stimulated a range of EU support activities for developing innovative research, training, and stakeholder engagement in Oceans and Human Health in Europe. //

**Lora Fleming,**

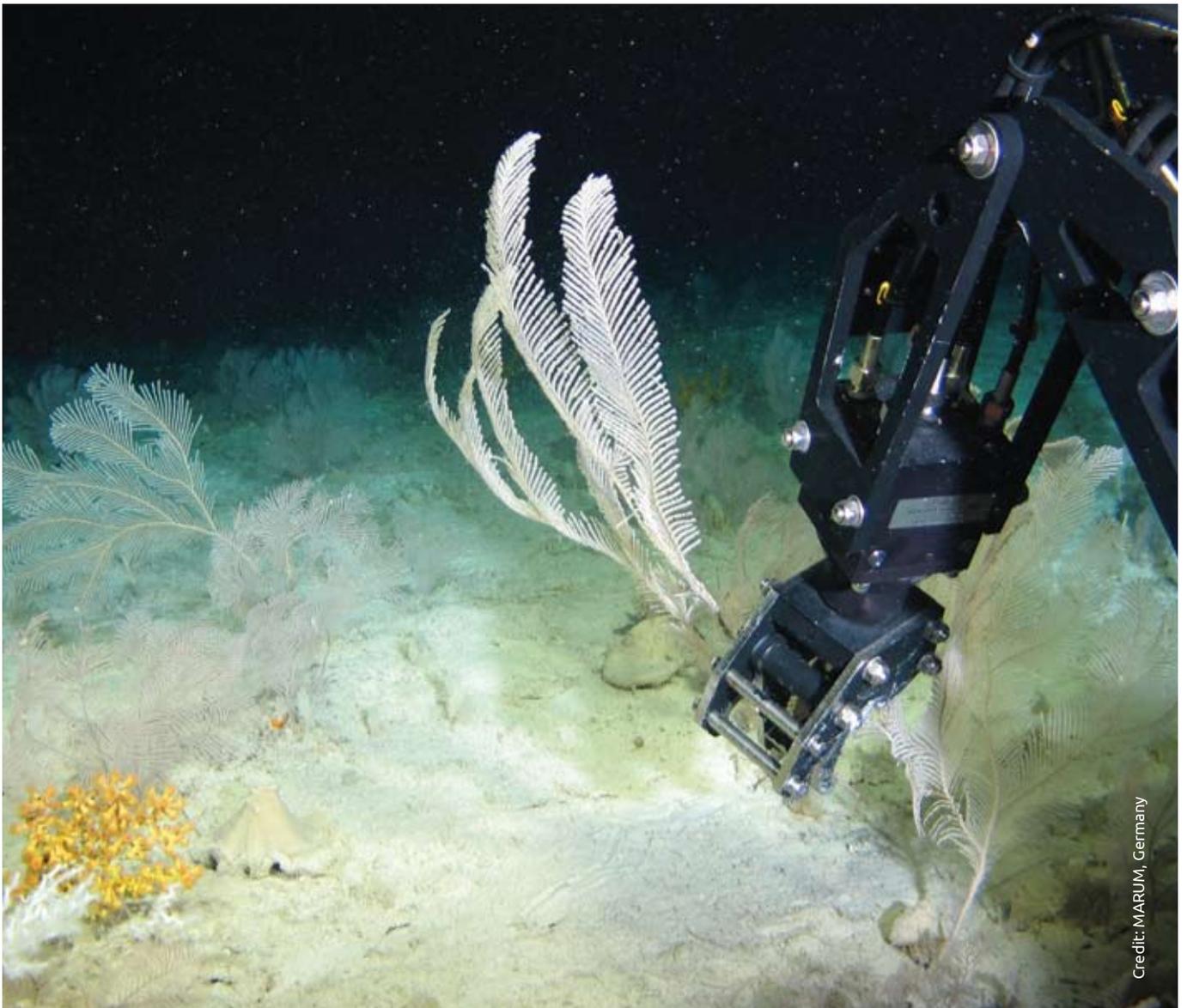
**Director of the European Centre for Environment & Human Health, University of Exeter, UK**

# Direct services to members

The support of a full-time, professional Secretariat means the EMB is able to provide valuable services to members, including:

- Regular updates on European and global marine science policy developments, consultations, initiatives and events;
- Two plenary meetings per year providing excellent opportunities for networking, exchange of information, debate and agreement on common priorities, identification of emerging challenges and opportunities, and interaction with key European decision makers;
- Access to the foremost marine science network in Europe to facilitate development of research partnerships and collaboration for national or institutional partnerships;
- Opportunity to propose new strategic activities for EMB and to nominate national experts.





Credit: MARUM, Germany



“ The European Marine Board has done an impressive job to synthesize and develop common marine science positions and priorities. In particular, through Navigating the Future as well as through its various position papers, the EMB has given a voice to the diverse European marine science community. What is more, the European Marine Board has helped to communicate complex scientific problems to policymakers, thus ensuring that the governance and policies for our oceans are underpinned by sound scientific advice as well as to highlight why investments in marine science can help to address major societal challenges such as food security, energy and oceans and human health. ”

**Kathrine Angell-Hansen,**  
**Director, Joint Programming Initiative on Healthy and Productive Seas and Oceans**  
**(JPI Oceans)**



## Promoting the European Research Area (ERA) for marine science

The shared nature of Europe's marine waters mean that their protection, sustainable use and management is a shared responsibility and requires a joint approach to research. However, as a research arena, the sea is difficult and costly to access (especially open ocean and deep water environments) and is highly unpredictable. Our community relies on access to research infrastructures including vessels, equipment, and observation tools and technologies to address research challenges in support of Ecosystem-Based Management and Blue Growth. We also know that while technology and equipment are important research tools, people are at the centre of the research endeavour. Hence, developing our human capacities through advanced marine science education and training is also crucial.

Applying the EU policy goal of a European Research Area (ERA) is especially relevant to marine research and at the core of EMB's objectives. Through promoting collaboration between our members and with other European and international actors and stakeholders, EMB has helped to break the barriers around issues like joint research funding and programming, promoting the development and shared use of marine research infrastructures, and developing innovative new training approaches to support the next generation of multi-skilled marine professionals.

Since 2007, the EMB has participated in 11 projects funded by the EU Framework Programmes designed to promote the ERA for marine science. These strategic projects, including two ERA-Nets (MarinERA and SEAS-ERA) have allowed our members to directly contribute to the structuring of the ERA.



*“ The European Marine Board actively delivers advice to the European Institutions. At the Marine Unit in DG Research & Innovation, we appreciate every policy document EMB publishes. ”*

**Sigi Gruber,**  
**Head of Unit for Marine Resources, DG Research & Innovation,**  
**European Commission**

# EMB Publications

- **How did our ancestors adapt to sea-level change? Discovering and safeguarding Europe's underwater heritage through Continental Shelf Prehistoric Research**, 2014, EMB Policy Brief 1, 8pp.
- **Rome Declaration: Setting a vision for seas and ocean science**, 2014 EurOCEAN Conference, 7pp.
- **Land beneath the waves: Submerged landscapes and sea level change, A joint geoscience-humanities strategy for European Continental Shelf Prehistoric Research**, 2014, Position Paper 21, 171pp.
- **4th EMB Forum Proceedings - Arctic 2050 Towards ecosystem-based management in a changing Arctic Ocean (12 March 2014)**, 33pp.
- **Navigating the Future IV**, 2013, Position Paper 20, 203pp.
- **Linking Oceans and Human Health: A strategic Research Priority for Europe**, 2013, Position Paper 19, 111pp.
- **Achieving Ecologically Coherent MPA Network in Europe: Science Needs and Priorities**, 2013, Position Paper 18, 83pp.
- **Getting Ready for an Ice-free Arctic**, 2013, Science Commentary 1.
- **Marine Biodiversity - A Science Roadmap for Europe**, 2012, Future Science Brief 1, 31pp.
- **Marine Microbial Diversity and its role in Ecosystem Functioning and Environmental Change**, 2012, Position Paper 17, 80pp.
- **3rd Forum EMB Forum Proceedings - New Technologies for a Blue Future (18 April 2012)**, 33pp.
- **Monitoring chemical pollution in Europe's Seas - programmes, practices and priorities for research**, 2011, Position Paper 16, 103pp.
- **Climate Change Research Results: Synthesis of European Research on the Effects of Climate Change on Marine Environments**, 2011, CLAMER-Marine Board Special Report, 151pp.
- **Marine Renewable Energy - Research Challenges and Opportunities for a New Energy Era in Europe**, 2010, Vision Document 2, 12pp.
- **Marine Biotechnology: A Vision and New Strategy for Europe**, 2010, Position Paper 15, 94pp.
- **Science Dimensions of an Ecosystem Approach to Management of Biotic Ocean Resources, SEAMBOR**, 2010, Position Paper 14, 90pp.





- **2nd Marine Board Forum Proceeding - Towards a European Network of Marine Observatories for Monitoring and Research (16 September 2010)**, 35 pp.
- **Impacts of Ocean Acidification**, 2009, Science Policy Briefing 37. Joint Marine Board - European Science Foundation Policy Briefing, 12pp.
- **EMODNET - The European Marine Observation and Data Network**, 2008, Vision Document 1, 10pp.
- **1st Marine Board Forum Proceedings - Marine Data Challenges: from Observation to Information (15 May 2008)**, 35pp.
- **The Effects of Anthropogenic Sounds on Marine Mammals**, 2008, Position Paper 13, 94pp.
- **Remote Sensing of Shelf Sea Ecosystems**, 2008, Position Paper 12, 62pp.
- **Marine Board Responses to the European Commission's Green Papers: Towards a future Maritime Policy for the Union: A European vision for the oceans and seas and (ii) The European Research Area: New Perspectives EC's Green Papers on: Maritime Policy, and the ERA**, 2007, Position Paper 11, 46pp.
- **European Ocean Research Fleets - Towards a Common Strategy and Enhanced Use**, 2007, Position Paper 10, 62pp.
- **Investigating Life in Extreme Environments - A European Perspective**, 2007, Joint Marine Board - European Science Foundation Position Paper, 60pp.
- **Impacts of Climate Change on the European Marine and Coastal Environment - Ecosystems Approach**, 2007, Position Paper 9, 84pp.
- **Navigating the Future III**, 2006, Position Paper 8, 69pp.
- **Modelling in Coastal and Shelf Seas - European Challenges**, 2005, Position Paper 7, 30pp.
- **Navigating the Future II - Summary of Integrating Marine Science in Europe**, 2003, Position Paper 6, 24pp.
- **Integrating Marine Science in Europe**, 2002, Position Paper 5, 148pp.
- **Marine Biotechnology - A European Strategy for Marine Biotechnology**, 2001, Position Paper 4, 30pp.
- **Navigating the Future - Towards a Marine European Research Area**, 2001, Position Paper 3, 14pp.
- **Towards a European Marine Research Area**, 2000, Marine Board Position Paper 2, 54pp.
- **Establishing a Framework for the Implementation of Marine Biodiversity Research in Europe**, 2000, Position Paper 1, 50pp.



EMB delegates, observers, guests and members of the EMB Communications Panel at 2014 Plenary Meeting (Brest, France).

Looking to the future, the European Marine Board will continue to operate as the foremost platform for seas and ocean strategy and foresight in Europe. The Board will maintain its flexible approach, always ready to adapt to the changing landscape for marine science policy. We will work with key partner networks, users and stakeholders to advance marine science and identify emerging challenges and opportunities of societal importance.

**If you wish to enquire about membership for your institution/consortium, or would like to know more about EMB, please contact:**

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## European Marine Board Member Organizations



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May, 2015