

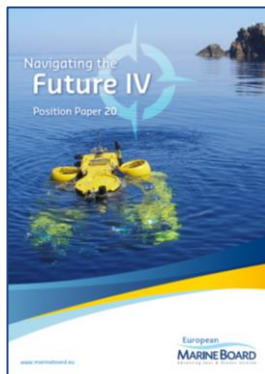
Impact of the European Marine Board

The European Marine Board (EMB) is the leading European think tank in marine science policy. Its members are major national marine/oceanographic research performing institutes, funding agencies and national consortia of universities with strong marine focus. EMB provides a platform to advance marine research and to bridge the gap between science and policy.

Through its extensive pan-European network, EMB identifies emerging scientific and societal challenges and opportunities and articulates the research and capacities needed to address them. This results in a series of high quality publications and scientific advice communicated to and used by many including the European Commission, National and Regional science agencies and funding bodies. EMB draws upon its scientific network to identify the best experts to participate in its Working Groups.

EMB publications review the state-of-the-art and conduct foresight and horizon scanning to deliver recommendations for enhancing Europe's capability in marine science. The publications are peer-reviewed by leading global experts. Examples of recent EMB activities and their impacts are listed below. A full selection is available at www.marineboard.eu.

"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, European Commission, DG Research & Innovation



The EMB **Navigating the Future** series provides regular pan-European summaries of the current status of marine research, priority recommendations and future scientific challenges in the context of societal needs. Navigating the Future IV (NFIV 2013) identified and prioritized a number of key future opportunities and challenges in marine science and technology. These were organized around the framework of key societal challenges in the areas of climate, human health, food security, energy, and safe and sustainable use of marine space. The document received wide praise as a comprehensive blueprint for seas and Ocean research priorities and has been cited several times in scoping papers and reflection

documents that support the development of Horizon 2020 work programmes, in particular with respect to the Blue Growth Focus area of Societal Challenge 2 (Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy). NFIV has also been cited on several occasions by EC personnel as a key reference document for marine and maritime research priorities and needs and has actually been cited in various scientific papers as policy drivers for the science they do¹.

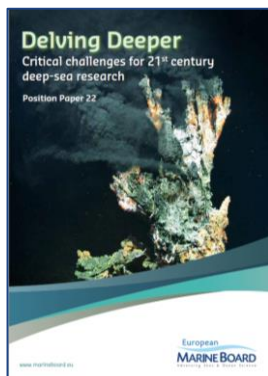
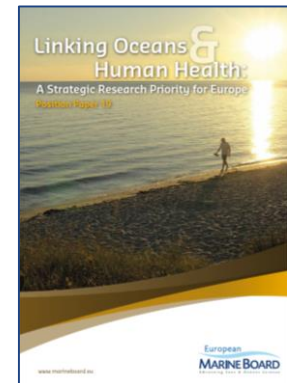
"Navigating the Future IV is particularly important as it foregrounds the fundamental role that marine research already plays and will play in the future... and will actively contribute to the Commission's preparation of work programmes."
Maria da Graça Carvalho, MEP

¹ e.g.

Georg H. Engelhard, Ruth H. Thurstan, Brian R. MacKenzie, Heidi K. Alleway, R. Colin A. Bannister, Massimiliano Cardinale, Maurice W. Clarke, Jock C. Currie, Tomaso Fortibuoni, Poul Holm, Sidney J. Holt, Carlotta Mazzoldi, John K. Pinnegar, Saša Raicevich, Filip A. M. Volckaert, Emily S. Klein, Ann-Katrien Lescauwae (2016) ICES meets marine historical ecology: placing the history of fish and fisheries in current policy context. ICES Journal of Marine Science, 73 (5), 1386–1403 <https://doi.org/10.1093/icesjms/fsv219>

Navigating the Future V (NFV), to be published in 2019, will provide scientific advice on future marine research to 2030 and beyond, as well as recommendations for important contributions by the European marine scientific community to the United Nations 2030 Agenda, Sustainable Development Goals, and its 'Decade of Ocean Science for Sustainable Development'.

EMB Position Paper 19 '**Linking Oceans and Human Health**' (2013) identified key research targets to build the necessary research capability to understand the links between the seas and oceans, and human health and well-being. Growing evidence indicates that the marine environment and human health are inextricably linked. As a direct uptake of the publication, the recommendations to continue to explore these relationships were used in the Horizon 2020 call BG-06-2017 which funded the Coordinated Support Action (CSA) project SOPHIE (Seas, Oceans and Public Health in Europe, start: December 2017). The EMB is part of the SOPHIE consortium and leads the task to deliver a Strategic Research Agenda on Oceans and Human Health in Europe.



EMB Position Paper 22 '**Delving Deeper: Critical challenges for 21st century deep-sea research**' (2015) explored the mismatch between the rising demand and capability to exploit deep-sea resources and the lack of scientific knowledge and regulatory frameworks to effectively manage this vast area, much of which falls in areas beyond national jurisdiction. The publication, together with the related Policy Brief (No. 2, 2015) has been recognized as an important review paper and reference by the

Joint Programming Initiative Healthy and Productive Seas and Oceans, as input to the implementation of the JPI-Oceans strategic area on deep-sea resources and by the European Commission. This publication is also relevant to other stakeholders, including the ongoing development of regulations for deep-sea mining, e.g. by the International Seabed Authority.

"Because of the broad consultation of deep-sea stakeholders and its multi-disciplinary approach, the EMB's position paper "Delving Deeper" has been of tremendous help to DG MARE in fine tuning its Blue Growth strategy. It is a source of inspiration as we are trying to identify future research priorities at European level." **Hélène Clark, European Commission DG Maritime Affairs and Fisheries**

The EMB Biennial Open Forums aim to bridge the gap between science and policy. The most recent 6th **European Marine Board Forum** (2017) fostered a greater role of the marine science community in supporting the ongoing work to advance the UN 2030 Agenda and the Sustainable Development Goals. The Forum was timely as Dr Vladimir Ryabinin from the Intergovernmental Oceanographic Commission (IOC) of UNESCO announced at the Forum that the UN formally approved support for the UN Decade of Ocean Science in 2021-2030.

"IOC will strongly count on EMB in the process of developing the UN Decade of Ocean Science Implementation Plan. We need your expertise and your inherent combination of scientific excellence and policy relevance." **Vladimir Ryabinin, Executive Secretary of IOC**



Catharina J.M. Philippart, Theo Gerkema, Henk W. van der Veer (2017) North Sea coastal ecology: Future challenges. *Journal of Sea Research*, 127, 227-230 <https://doi.org/10.1016/j.seares.2017.07.004>