

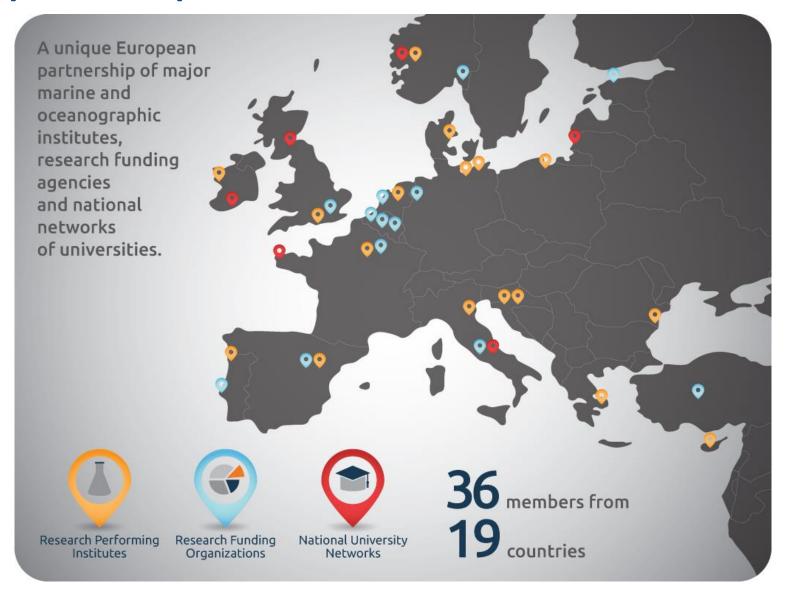


The Ocean-Climate Nexus: Key messages from European Marine Board Forum

Nan-Chin Chu Science Officer European Marine Board Secretariat

A pan-European marine science partnership







Our mission

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

Transferring knowledge to the core of marine research policy





16 years of achievement and counting...







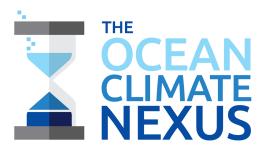
Modelling Continental Shelf Ecosystem Resources Marine Protected Area Polar Coastal Marine Spatial Planning Energy Biotechnology Science Policy Interface MSFD Environment Sea Level Blue Growth Ocean Acidification Marine Mammals Food Renewable Research Infrastructure Research Fleets Underwater Heritage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

Ocean Observation Microbial Deepsea



THE CRITICAL ROLE OF OCEAN SCIENCE IN RESPONDING TO CLIMATE CHANGE 21 OCTOBER 2015, BRUSSELS







HOSTED BY RICARDO SERRÃO SANTOS, MEP

Vice Chair of the Intergroup "Seas, Rivers, Islands and Coastal Areas"

OPENING ADDRESSES

Ricardo Serrão Santos, MEP

Jan Mees, Chair, European Marine Board

Sherri Goodman, President, Consortium for Ocean Leadership (video message)

SPECIAL MESSAGE

HSH Prince Albert II of Monaco (video message)

SCIENTIFIC PRESENTATIONS

Mojib Latif, Helmholtz Centre for Ocean Research Kiel (GEOMAR), Germany **Ceri Lewis,** University of Exeter, UK

PRESENTATION OF THE CONSENSUS STATEMENT

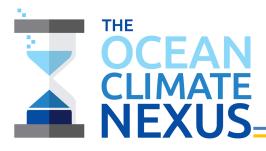
Michael Schulz, Centre for Marine Environment Sciences (MARUM), Germany

PANEL DISCUSSION

Speakers &

Vladimir Ryabinin, Executive Secretary, Intergovernmental Oceanographic Commission (IOC), UNESCO

Andrea Tilche, Head of the Climate Action and Earth Observation Unit, European Commission



Consensus Statement







Joint drafting expert nomination

















3 teleconferences

Expert reviews (16) & approved by members of EMB and Ocean Leadership







OCEAN Consensus Statement:

A call from the ocean research community

To the COP21:

- Recognize fundamental role of the ocean in the climate system
- Deliver an agreement to reduce greenhouse gas emission and curb damage to the ocean & its ecosystem
- Understand & promote the role of ocean and climate research

To research funders:

Support ocean-climate research & observation programmes





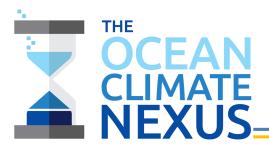




Consensus Statement

Key role of the ocean

- Ocean is a key component of the global climate system.
- Climate change alters physical, chemical and biological properties of the ocean. Marine ecosystems have responded and will continue to respond to these changes.
- Human societies depend on ocean services, which are sensitive to climate change.
- Successful adaptation and mitigation strategies must consider the ocean.
- But, key uncertainties remain...

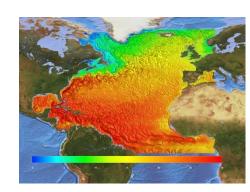


Gaps and needs

- Insufficient understanding of some key processes, e.g.,
 - mixing in the ocean interior
 - interactions between ecosystem functioning and biodiversity

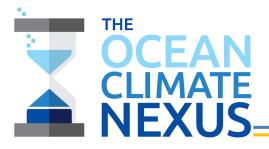


- integrating biogeochemical and biological observations
- improving coverage (space and time)
- filling gaps in the deep ocean
- Combining advanced models with observations
- International cooperation

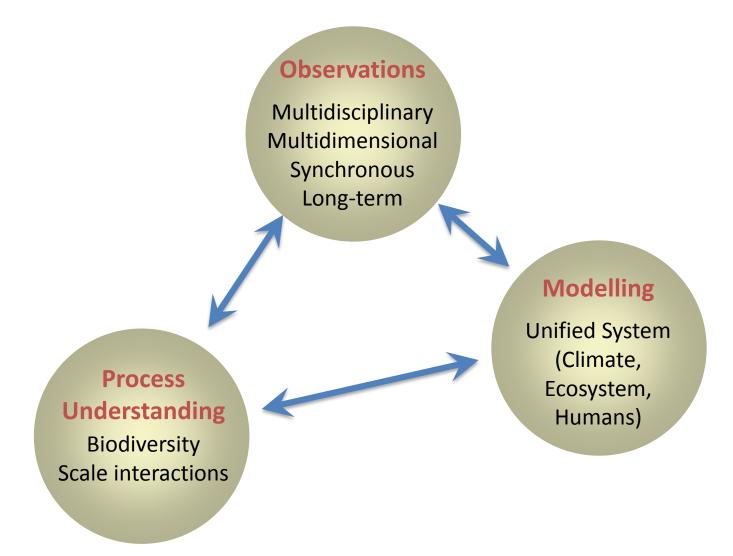








Towards more reliable projections





Thank you

www.marineboard.eu www.marineboard.eu/ocean-climate-nexus/