



# Ocean-based Negative Emission Technologies



<b>Deliverable Title</b>	<b>D9.2 International Scientific Advisory Board members list and a Terms of Reference list</b>
Lead	GEOMAR   Helmholtz Center for Ocean Research Kiel
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Author(s)	Judith Meyer, David Keller
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<b>Abstract:</b> This deliverable presents the list of International Scientific Advisory Board (ISAB) members, which is composed of international distinguished scientists to ensure external evaluation of the project and link to other programs and activities inside and outside Europe. The Terms of Reference list establishes the purpose and responsibilities of the ISAB.	



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## Introduction

Funded by EU Horizon 2020, the OceanNETs project focuses on analyzing and quantifying the environmental, social, and political feasibility and impacts of ocean-based negative emission technologies (NETs). It aims to identify to what extent, and how, ocean-based NETs can play a role in keeping climate change within the limits set by the Paris Agreement. The project also includes potential interactions with non-ocean-based NETs in the analysis and closely interacts with stakeholders to develop societally and politically relevant feasibility assessments of ocean-based NET deployment strategies.

The International Scientific Advisory Board (ISAB) plays an important role in this, through advice, access to stakeholders and networks, participation in workshops and more. This document is devoted to listing the members of the Advisory Board and the Terms of Reference.

## The Advisory Board

The projects International Scientific Advisory Board is composed of internationally recognized scientists with expressed interest in the scope and approach of OceanNETs. Additional participants can be invited, on a temporary and ad-hoc basis, to complement the expertise of the members for specific topics, following invitation extended by the chair of the project coordinator of OceanNETs.

The following people have kindly accepted the invitation to join the ISAB:

### List of Scientific Advisory Board members

Name	Expertise	Affiliation
<b>Dr. Roland Séférian</b>	Senior research scientist with <b>expertise in Earth system modelling of NETs</b> ; Lead author of IPCC SR1.5 Ch.2	Centre National de Recherches Météorologiques (CNRM), France
<b>Dr. Naomi Vaughan</b>	Senior Lecturer in Climate Change with <b>inter- and transdisciplinary expertise assessing negative emissions and other types of climate engineering</b>	School of Environmental Sciences, University of East Anglia, United Kingdom

<b>Prof. Wil Burns</b>	Professor of Research and Co-Director with <b>expertise in international environmental law</b> , currently focusing on climate engineering issues	Institute for Carbon Removal Law & Policy at American University, USA
<b>Dr. Greg Rau</b>	Senior researcher with <b>expertise in marine science and ocean-based NETs</b> ; An author of the GESAMP report on marine geoengineering	University of California, Santa Cruz - Institute of Marine Sciences and visiting scientist at Lawrence Livermore National Laboratory, USA
<b>Prof. Fei Chai</b>	Director with <b>expertise in marine biogeochemical modelling</b> ; An author of the GESAMP report on marine geoengineering	State Key Laboratory of Satellite Ocean Environment Dynamics, China
<b>Dr. Ilkka Hannula</b>	Senior researcher with experience in the modelling and development of advanced energy conversion systems & EU partner project (NEGEM) coordinator	VTT Technical Research Centre, Finland

## Role

The ISAB in OceanNETs is external advisory body that ensure evaluation of the project. It is responsible for 1) serving as a resource base and sharing knowledge and expertise; 2) helping the participants to stay up-to-date with the developments related to the project, whether in policy-making, legislation, industry or research; 3) facilitating communication of project participants with relevant networks and stakeholders. The activities of the ISAB include, but are not limited to the following:

- Sharing feedback on ideas and research conducted within the project
- Review the project progress and give advice on corrective actions
- Alerting OceanNETs about important developments relevant to the project
- Link to other programs and activities inside and outside Europe
- Providing an international perspective of developments in the field of climate mitigation with focus on the internationally coordinated effort of the

Intergovernmental Panel on Climate Change (IPCC) and other international assessments.

- Acting as ambassadors for the project
- Facilitating new connections with stakeholders using their networks
- Making recommendations for new actions and activities in this area
- Helping to disseminate research results via their networks
- Participation in meetings, workshops and other events

The status of the ISAB is restricted to advisory only; any suggested change to the project must be agreed by the consortium and approved by the Commission. ISAB members should act in an individual capacity, independent of national or institutional affiliation, without any interests of any scientific community, country, stakeholder or lobby.

## **Work plan**

The ISAB is coordinated by the project office. It will take part in OceanNETs through participation in project meetings, video-conferences and workshops as appropriate, and help shape the development of OceanNETs for maximum scientific quality and impact. The ISAB is also invited to collaborate informally with partners and participants.

### **Meetings and information flow**

All project members of OceanNETs as well as invited stakeholders will meet with the ISAB in project meetings, which take place at months 1 (kick-off), 15, 30, and 48 or very soon thereafter. Depending on the projects needs and priorities, the ISAB will also have up to two virtual meetings every year. Since the knowledge and expertise of the ISAB members is very valuable for all work packages of OceanNETs, virtual meetings or direct contacts may also occasionally be arranged between members of the Scientific Steering Committee and the ISAB at the initiative of either party.

#### *Practicalities*

The ISAB will be notified about any upcoming meetings and events well in advance (~ 20 days) and details about these will be provided. If needed, travel expenses, food and accommodation will be covered by OceanNETs.

For a smooth information flow between ISAB, management bodies and the consortium, a network database, including scientific and administrative contacts at partner institutions, researchers involved, as well as ISAB and Stakeholder Reference Group members will be established and updated by the project office. Besides project meetings, other tools for internal information flow are the protected internal project website, dedicated email lists

and video-conferences. A project overview (wiki) will be established where internal documentation and information on the management and progress of the tasks is stored.

### **Potential changes**

The composition of the ISAB (e.g. adding or replacing members) and Terms of Reference may change as the project develops (for example, due to the circumstances of individual ISAB members or due to the needs of meeting OceanNETs objectives). OceanNETs also welcome suggestions to amend the Terms of Reference in order to improve the functioning of the ISAB at any time. On this basis or at its own discretion, OceanNETs may choose to amend the Terms of Reference.