



## **Achieving climate neutrality and the Paris Agreement goals: Opportunities for ocean-based methods of carbon dioxide removal (CDR)**



**Tuesday 25 October 2022, 12:00 – 14:00 CEST**

**Hybrid event organized at the European Parliament (Room ASP 5G1)  
& WebEx Events**

**Co-hosted by MEP Maria da Graça Carvalho  
& MEP Catherine Chabaud**

**Co-Chairs of the 'Ocean Governance' Working Group of the European Parliament Intergroup  
on 'Climate Change, Biodiversity and Sustainable Development'**

Even with ambitious climate policies, humanity is still expected to release 5-15% of current carbon dioxide emissions in three decades, further driving global warming. One way out is to compensate by targeted carbon dioxide removal and storage. Many carbon capture and storage processes are land-based; since land is already a scarce resource, ocean-based approaches and processes are increasingly being researched.



A common challenge in many negative emission technologies is the difficulty of creating new global industries and supply chains. Therefore, there is a need to examine realistic deployment scenarios for the different methods by e.g. augmenting existing infrastructure. In addition, the technical, social, environmental and economic consequences of modifying current industries to increase greenhouse gas removal need to be identified, yet with implications that are relevant to the creation of new technologies. As a result, a multi-disciplinary and reflexive approach is key, especially when looking at the certification of carbon removal methods.

Given the potentially valuable contribution, but also controversial nature of ocean-based methods of carbon dioxide removal (CDR), this science-policy event aims at introducing a discussion around the societal, environmental, economic, and political implications of CDR methods, as well as important, necessary directions. As a result, this event organized under the umbrella of the European Parliament Intergroup on 'Climate Change, Biodiversity and Sustainable Development' invites Members of the European Parliament, the European Commission, member states, and other interested stakeholders, including non-governmental organizations, industry and academia, to address the previous results of OceanNETs and CDRmare, specifically looking at important background information for national, European and international political processes, agreements and regulations, such as the national Climate Protection Plan 2050, the IPCC reports, the COP27 negotiations and the European Commission's initiative on 'Certification of carbon removals'.



OceanNETs HAS RECEIVED FUNDING FROM THE EU'S HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME UNDER GRANT AGREEMENT NUMBER 869357.

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## FINAL AGENDA:

Event moderated by **Minna Epps**, Director of IUCN Ocean team

- 12:00 – 12:10            Opening remarks by **MEP Maria Carvalho**
- 12:10 – 12:25            Presentations by:
- **Dr. David Keller**, OceanNETs & CDRmare, GEOMAR Helmholtz Center for Ocean Research Kiel, Germany, IOW, Germany: “The big picture behind ocean-based Carbon Dioxide Removal (CDR) & Negative Emission Technologies (NETs)”
  - **Prof. Dr. Alexander Proelß**, OceanNETs & CDRmare, University of Hamburg, Germany: “Opportunities and challenges in governance, policy and international legal dimensions of ocean-based NETs”
- 12:25 – 13:05            Panel discussion with the participation of:
- **Rodrigo Ataide**, Policy Officer, A1 Unit on “Maritime Innovation, Marine Knowledge and Investment”, DG MARE, European Commission
  - **Alexa Mayer-Bosse**, Head of Business Development & Origination, Agro & Weather Risks, Munich Re
  - **Dr. Antonia Leroy**, Head of Ocean Policy, WWF European Policy Office
  - **Dr. Samantha Eleanor Tanzer**, CDR Research & Technology Manager, BELLONA
  - **Prof. Dr. Andreas Oschlies**, CDRmare & OceanNETs, GEOMAR Helmholtz Center for Ocean Research Kiel, Germany
  - **Dr. Prof. Laurent Bopp**, Research Director, CNRS
- 13:05 – 13:10            Reaction by **MEP Barry Andrews**
- 13:10 – 13:30            Q&A session with the audience
- 13:30 – 13:40            Closing remarks by:
- **MEP Catherine Chabaud**
  - **Dr. David Keller** (scientific remarks)
- 13:40 – 14:00            Networking coffee



## About the projects:

### CDRmare

The German Alliance for Marine Research (DAM) research mission "Marine Carbon Sinks in Decarbonization Pathways", in short: CDRmare, is investigating whether and to what extent the ocean can play a significant role in removing and storing CO<sub>2</sub> from the atmosphere. It will also consider interactions with and impacts on the marine environment, Earth system, and society, as well as appropriate approaches for monitoring, attributing, and accounting for marine carbon storage in a changing environment. The research mission will work in close dialogue with stakeholders to establish relevant assessment criteria and, in the long term, a Marine Carbon Roadmap for the sustainable use of marine carbon storage at regional, transregional, and global scales.

### OceanNETs

The EU H2020 project OceanNETs aims to determine to what extent, and under what conditions, the large-scale deployment of ocean-based negative emission technologies could contribute to realistic and effective pathways for Europe and the world to achieve climate neutrality and the goals established in the Paris Agreement, as well as, to identify and prioritize options with the most potential in regard to CO<sub>2</sub> mitigation, environmental impact, risks, co-benefits, technical feasibility, cost effectiveness, and political and societal acceptance.



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