

Available contacts for interviews regarding „World Ocean Review 8“

Prof. Dr. Christian Baatz is engaged in research and teaching on climate ethics, sustainability and global justice in the Department of Philosophy at Kiel University, where he is a Junior Professor. In this capacity, the environmental ethicist leads the research group "Financing Adaptation to Climate Change in the Global South: Investigating a Fair and Practical Distribution of Scarce Resources", which is funded by the German Federal Ministry of Education and Research (BMBF). His studies on political and ethical principles for targeted carbon dioxide removal provide input for three research projects: one of which is developing review guidelines for ocean-based CDR methods as part of the German *CDRmare* research mission, and two projects on the ethics of land-based CDR.

Dr. Christine Merk is the Deputy Director of the Global Commons and Climate Policy Research Center at Kiel Institute for the World Economy. Her main research interests include individual trade-offs between mitigation, carbon dioxide removal (CDR) and stratospheric aerosol injection. She conducts behavioural economics experiments and surveys to explore lay and expert perceptions and reactions. She is currently involved in two research projects that look at acceptance of ocean-based carbon dioxide removal: she leads the work package on public perceptions of marine CDR in the *Horizon2020* consortium *OceanNETs* and contributes to a German research project on seagrass restoration. In parallel, she provides expert input for the GESAMP Working Group on Ocean Interventions for Climate Change Mitigation and is involved in developing review guidelines for ocean-based CDR projects and methods as part of the *CDRmare* research mission. In addition, together with partners at the Norwegian Research Centre (NORCE), she explores perceptions of the cross-border transportation of CO₂ for storage in Germany and Norway.

Prof. Dr. Andreas Oschlies is an oceanographer and Head of the Biogeochemical Modelling Research Unit at the GEOMAR Helmholtz Centre for Ocean Research in Kiel. His research interests include the physical, biogeochemical and ecological processes of oceanic carbon uptake and possible changes in these processes as a result of climate change. For example, he and his team develop biogeochemical models to investigate changes in the oxygen content of the oceans and their ecological impacts. Since the early 2000s, Andreas Oschlies has been involved in researching and assessing climate engineering techniques and led a German Research Foundation (DFG) interdisciplinary priority programme on this topic from 2013 to 2020. Since 2021, he has served as Co-Chair of the "Marine Carbon Sinks in Decarbonization Pathways" German research mission (*CDRmare*) in which around 200 scientists from 22 partner institutions conduct cross-disciplinary research on various marine carbon dioxide removal and storage methods.

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Prof. Dr. Gregor Rehder is a marine biogeochemist. He is Vice Head of the Department of Marine Chemistry at Leibniz Institute for Baltic Sea Research in Warnemünde (IOW) and teaches at the University of Rostock. At IOW, he is also the Work Group Leader of the Trace Gas Biogeochemistry Group in which he and his team study important key processes in the sea and in coastal areas regulating production of trace gases and greenhouse gases that affect climatic processes and biogeochemical cycles. The scientists are developing new techniques for efficient environmental monitoring. Gregor Rehder has been a Co-Chair of the *CDRmare* research mission since 2021 and coordinates the research activities of the six participating consortia together with Prof. Dr. Andreas Oschlies.

Prof. Dr. Julia Pongratz holds the Chair of Physical Geography and Land Use Systems at the University of Munich (LMU) and is the Director of the Department of Geography. Her research explores the interactions between humans, vegetation and climate. An expert in vegetation modelling, she is particularly concerned with land use change and its impact on energy, water and carbon cycles in the Earth's climate system. For example, she studies how, through afforestation/reforestation, humans can potentially increase carbon dioxide uptake in terrestrial vegetation; she also investigates what effects large-scale tree planting would have on the local and supra-regional climate. An expert in land use change and its emissions, she contributed to the IPCC's *Sixth Assessment Report* at the invitation of Working Groups I and III. She is also involved with the prestigious Global Carbon Project and is the Speaker and Project Lead for the BMBF-funded *CDRterra* research programme in which experts from various German research institutions investigate the carbon dioxide removal potential of various land-based CDR methods. One question to which they are seeking answers is to what extent there is potential to apply these methods in Germany to achieve the goal of greenhouse gas neutrality without jeopardizing other sustainable development objectives.

Prof. Dr. Klaus Wallmann is a geoscientist. He leads the Marine Geosystems Research Unit at the GEOMAR Helmholtz Centre for Ocean Research in Kiel and teaches the foundations of marine biogeochemistry at Kiel University (CAU). His research interests include material turnover at cold seeps and mud volcanoes on the sea floor, the formation of gas hydrates, microbial degradation of organic matter in surface sediments, and the recycling of nutrients from the sediments into the ocean. He is regarded as Germany's foremost expert in carbon dioxide storage in subsea sandstone formations. From 2011 to 2015, he led an EU research project on the consequences of carbon dioxide storage below the sea floor. As part of the *CDRmare* research mission, he currently coordinates the GEOSTOR consortium in which researchers aim to identify methods that would allow carbon dioxide storage in geological formations below the seabed in the German sector of the North Sea in compliance with the precautionary principle.

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