

Workshop: The Arctic land-ocean carbon cycle and its role in the remaining global carbon budget

Date: 22.-23.09.25

Location: Landesvertretung Hamburg, Jägerstraße 1-3, 10117 Berlin

This workshop brings together scientists and representatives from policy, ministries, and non-governmental organizations to explore the Arctic land-ocean carbon cycle and its role in the global carbon budget. Through keynote talks, panel and plenary discussions, participants will assess current and future Arctic carbon fluxes, their uncertainties, and policy implications, with a focus on science-to-policy transfer.

Preliminary program:

Day 1 (22.09.25)	Science: uncertainties and research priorities
13:00 – 13:30	Arrival and registration
13:30 – 14:00	Welcome
14:00 – 15:15	Session 1: Today's Arctic carbon fluxes
15:15 – 15:45	Coffee break
15:45 – 17:00	Session 2: Future Arctic carbon fluxes
19:00	Workshop dinner at restaurant (tba)
Day 2 (23.09.25)	Science-to-policy transfer
09:00 – 10:15	Session 3: Global impacts and policy implications
10:15 – 10:45	Coffee break
10:45 – 11:45	Session 4: Knowledge transfer to policy and decision-makers
11:45 – 12:30	Plenary discussion and wrap-up

Gefördert durch:



Bundesministerium
für Umwelt, Naturschutz, nukleare Sicherheit
und Verbraucherschutz

aufgrund eines Beschlusses
des Deutschen Bundestages

Session 1: Today's Arctic Carbon Fluxes

This session explores the latest insights from data synthesis efforts on Arctic greenhouse gas fluxes. Speakers will discuss how to reconcile bottom-up and top-down estimates, identify key sources of uncertainty, and assess the current state of knowledge on land and ocean carbon dynamics.

Session 2: Future Arctic Carbon Fluxes

Looking ahead, this session explores how Arctic carbon fluxes may evolve in a warming climate and whether parts of the Arctic could shift from a carbon sink to a carbon source. It will examine key processes driving these changes and highlight major uncertainties in future projections.

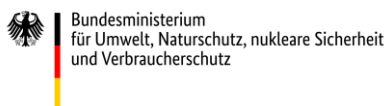
Session 3: Global Impacts and Policy Implications

This session addresses the Arctic's role in the remaining global carbon budget and its influence on global climate targets. Discussions will cover potential tipping points, irreversibility, and non-linearities in the Arctic carbon cycle, as well as how uncertainties should be integrated into climate policies and carbon budget calculations.

Session 4: Knowledge Transfer to Policy and Decision-Makers

The final session focuses on bridging science and policy. It will explore what information policymakers need, how Arctic carbon research can be effectively communicated, and ways for scientists to engage in science-to-policy transfer. Experts from both science and policy will share their experiences and perspectives.

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