BayCEER Kolloquium

Lectures in Ecology and Environmental Research

winter 2026/27

UNIVERSITÄT BAYREUTH

Donnerstag/Thursday
12.11.2026
12:30 in H6, GEO



Dr. Emily Stevenson

Helmholz Centre for Geosciences, Potsdam

Drivers of net inorganic CO_2 fluxes from High Arctic rivers: The roles of erosion, thaw, and rainfall

Rapid Arctic warming and permafrost thaw are exposing previously frozen minerals and sediments to chemical weathering, with important implications for river chemistry and the global carbon cycle. In this talk, I use sulfur and oxygen isotopes together with multi-decadal river chemistry records from northeast Greenland to investigate how weathering processes have changed over time and react strongly to erosion and extreme rainfall events. Particular attention is given to sulfide oxidation and its interaction with carbonate minerals, revealing how hydrological changes in permafrost landscapes can alter river chemistry and potentially influence atmospheric CO_2 fluxes.





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