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Demonstrator

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Summary

I'm interested in understanding internal variabilities of the carbon cycle and its reaction to external forcings. To do so, I use numerical Earth System models to perform sensitivity studies and test scenarios based on empirical evidence. For my Master's degree, I studied the sensitivity of the terrestrial carbon cycle to rising CO₂ concentrations under glacial conditions at the Max Planck Institute for Meteorology, Hamburg. My current project at the University of Bristol aims at improving our understanding of Oceanic Anoxic Events (OAEs), major perturbations of the oceanic carbon cycle in the geological past. I hold a Bachelor's and Master's degree in Meteorology.

Memberships

Organisations

[School of Geographical Sciences](#)

Research groups

- [Bristol Research Initiative for the Dynamic Global Environment \(BRIDGE\)](#)

Recent publications

- Vervoort, P, Adloff, M, Greene, SE & Turner, SK, 2019, '[Negative carbon isotope excursions: an interpretive framework](#)'. *Environmental Research Letters*, vol 14.
- Adloff, M, Reick, CH & Claussen, M, 2018, '[Earth system model simulations show different feedback strengths of the terrestrial carbon cycle under glacial and interglacial conditions](#)'. *Earth System Dynamics*, vol 9., pp. 413-425

[View complete publications list](#) in the University of Bristol publications system