

Gerrit Lohmann

**Professor for Physics of the Climate System
Paleoclimate Dynamics**



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- [Department Physics/Electrical Engineering](#)
- [DFG Research Center Ocean Margins \(RCOM\)](#)

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Research

Research Group for "Paleoclimate Dynamics"

Research interests are in Earth System Modeling, Theoretical Oceanography and Meteorology, and in the field of Dynamical System Theory. One focus of my research is to identify driving mechanisms for paleo and future climate change. This is done through numerical models of the Earth system and statistical analysis of instrumental and proxy data. One special area of my research is focussed on the role of the global oceanic thermohaline circulation for recent and paleo climate variations. The identification of resonances and thresholds in the system allows an estimate of possible future climate shifts.

- [Southern Ocean Origin for Resumption of Atlantic Thermohaline Circulation during Deglaciation.](#) (Nature 2003)

- [North Atlantic Oscillation: Evidences from corals and model simulations](#) (Nature 2004)
- [Publications](#)

Teaching

University of Bremen, Faculty of Physics, [International Postgraduate-program Environmental Physics \(PEP\)](#) ([Lecture table](#), [Staff](#))

- [Climate System Seminar](#) of the AWI
- [Courses](#) at Hamburg University, the European Graduate College in Marine Sciences, and Bremen University.
- [Seminars & Conferences](#)

- [Research interests](#)
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