

Hauptseminar PG

Climate Change: Atmosphere, Oceans, Cryosphere

Prof. Dr. Thomas Mölg

Studiengänge/Study Programs: BA/BSc/LAGY/LAR/LAGH

ECTS: 5 (2 SWS)

Teilnehmerzahl/Participants: max. 20

Seminartermin/Times & Location: see UNIVIS

Verbindliche Vorbesprechung/Pre-Meeting: erste reguläre Sitzung
/first regular session

Climate change on long and short time scales has affected the livelihood on Earth throughout history. This seminar will discuss recent changes in the major components of the climate, and aims to deepen the understanding of how the climate functions as a system. The focus will be on current topics that concern the atmosphere; the hydrosphere (e.g., oceans); the cryosphere (e.g., ice sheets, glaciers, sea ice); and their interplay from the general perspectives on the physical basis of climate change, the role of climate variability, and the benefit from modeling climate and future pathways. To do so, we will scrutinize recent and brand new studies published in international journals. For participation, good basic knowledge in climatology and the willingness to read selected research articles in English is necessary. Depending on the participants, the course will be held in German or English; the seminar paper can be written in German or English in any case. During the seminar, active participation is expected.

