



Job announcement

PhD-Position in the SHARP-STC Project

The announced PhD-position is part of the project 'Stratosphere-troposphere coupling in a changing climate' (SHARP-STC) in the DFG-Research Unit 'Stratospheric Change and its Role in Climate Prediction (SHARP)' (coordinated by Prof. Dr. Ulrike Langematz). The focus of this project is to determine the role of the interaction between the stratosphere and troposphere in a changing climate, in particular to assess the impact of a changing stratosphere on the troposphere-surface system.

The specific task of the PhD-position will be to investigate the relevance of atmosphere-ocean feedback processes for the coupling between the stratosphere and troposphere by performing and interpreting simulations with a coupled atmosphere-ocean chemistry-climate model. Questions to be studied include: How does low-frequency ocean variability affect stratospheric variability? How do stratospheric circulation anomalies affect the Arctic/Antarctic oscillation, surface weather and the ocean circulation? How will Arctic sea reductions due to increasing greenhouse gas concentrations modify stratospheric dynamics? The successful applicant will work in a team addressing the different aspects of stratospheric and climate change within the SHARP consortium.

Requirements: Diploma or MSc in Atmospheric Science or a related discipline

Further qualifications: The applicant is expected to have experience in atmospheric dynamics, numerical modelling, and/or atmospheric chemistry. Very good skills in scientific programming (Fortran, Unix/Linux, Matlab, GrADS, IDL) are required, as well as fluent English and the ability to work in a team.

Payment: Vgr. TV-L E 13 (50%)

Duration: 3 years

Applications (including a cover letter, a curriculum vitae and copies of scientific degrees) should be sent to:

Prof. Dr. Ulrike Langematz
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