Postdoc Position in Coupled Climate-Carbon Cycle Modelling

The Climate Research Lab in the Department of Geography at Simon Fraser University (Vancouver, British Columbia, Canada), led by Dr. Kirsten Zickfeld, invites applications for a postdoctoral position in coupled-climate carbon cycle modelling.

The successful applicant will join a dynamic group with expertise in Earth system modelling, climate dynamics and climate-carbon cycle interactions on decadal to centennial timescales. The focus of the research will be on the future climate and carbon cycle response to “overshoot” scenarios, i.e. scenarios that temporarily exceed a temperature limit. Understanding the response to such scenarios is of fundamental interest, as most scenarios consistent with meeting the temperature limits set by the Paris Agreement (1.5°C and 2°C warming above pre-industrial) involve temperature overshoot. The researcher will explore to what extent climate changes are reversible in such overshoot scenarios, and investigate the carbon cycle implications of such scenarios (which entail artificial removal of CO₂ from the atmosphere). The research questions will be addressed by performing multi-century simulations with an Earth System Model of intermediate complexity and by drawing on climate model archives such as the Climate Modelling Intercomparison Project Phase 6 (CMIP6) archive.

Funding is available for one year, with possibility of renewal for one additional year. The preferred start date is 1st November 2018.

Candidates with a PhD degree (or international equivalent) in atmospheric science, oceanography, earth science, physical geography, physics or related disciplines are invited to apply. A strong background in climate science, strong quantitative and programming skills (Matlab, R or Python), demonstrated research experience, good record of scientific publications, ability to work independently and excellent oral and written communication skills are expected.

For consideration, please send a single pdf document containing 1) a cover letter of 1-2 pages summarizing research interests, qualifications and experience that fit the advertised position, 2) a CV listing past employment, education and research experience, skills, publications and contact information of three academic references and 3) 1-2 samples of relevant publications to Dr. Kirsten Zickfeld (kzickfel@sfu.ca).

Evaluation of applications will start on Monday, August 12th 2018 and will continue until the position is filled.

For further information contact:

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