

Oeschger Centre, Falkenplatz 16, CH-3012 Bern

Bern, October 2014

PhD in Paleoclimatology, University of Bern, Switzerland: Climate teleconnections over the last Millennium

A PhD position is open for an enthusiastic young researcher to work in the *Oeschger Centre for Climate Change Research*, University of Bern, Switzerland www.oeschger.unibe.ch.

The open PhD position is part of the SNF project "Detection of human and natural influences on the climate system: regional insights from the past Millennium" and will be located in the Paleolimnology research group at the Institute of Geography <http://www.geography.unibe.ch>.

The climate of the different continents is strongly influenced by large-scale modes of climate variability, such as the El-Niño-Southern Oscillation. Recent reconstructions of climate over the last centuries show remarkable differences between the regions of the globe, suggesting considerable variability in the strength of teleconnections.

This PhD will explore the climate teleconnections and their changes over time during the last millennium based on proxy records from multiple archives (tree-rings, corals, ice-cores, sediments, historical documents). In conjunction with climate model simulations, the proxy data will be assessed to provide dynamical explanations for climatic variability between the continents over the last 1000 years.

We are looking for a highly motivated candidate with an MSc in climate science, environmental sciences, geography, or similar, with a strong background in geophysical processes and environmental statistics. Interest in working with large data sets and using programming languages (R, Matlab, Python, ...) is essential, as well as strong language skills in English. We are looking for a dedicated team-player, who is motivated to contribute to the good working atmosphere and the scientific success of our work group.

The successful candidate will participate in the *Graduate School of Climate Sciences* <http://www.climatestudies.unibe.ch>. The graduate school offers a broad range of educational and training opportunities and a unique interdisciplinary network in the field of climate sciences at the University of Bern.

Supervisor: Dr. Raphael Neukom

Co-Supervisor & group leader: Prof. Dr. Martin Grosjean

Salary: Swiss NSF PhD Fellowship (47,040 to 50,040 CHF, 100%).

The position is available from **May 1, 2015** (negotiable) with duration of 36 months.

Review of applications starts on **January 4, 2015** and continues until the position is filled.

Informal enquiries should be made and applications (**ONE pdf** with CV, letter of motivation, MSc certificate, names and addresses of three referees) should be sent to: Raphael Neukom: neukom@giub.unibe.ch; +41 44 635 51 88 (Tue, Wed & Fri). Applications from qualified women are warmly encouraged.