

Curriculum vitæ

Stefan Gerber, born in Burgdorf, March 13, 1973

Current position

since July, 2004

Research Associate, Woodrow Wilson School and Department of Ecology and Evolutionary Biology Princeton University, Princeton, NJ, 08544, USA

Advisers: Michael Oppenheimer and Lars Hedin

Previous positions

March - July, 2004

Research Associate, Climate and Environmental Physics University of Bern, Switzerland Advisers: F. Joos and T.F. Stocker

Education

2000 - 2004 PhD thesis at Climate and Environmental Physics
University of Bern, Switzerland

Advisers: F. Joos and T.F. Stocker

1995 - 2000 Diploma in Earth Sciences, ETH Zürich

Main subject: Climatology

Subsidiary subjects: Hydrology and Glaciology

Diploma thesis adviser: H. Rihner

Publications

- Gerber, S., F. Joos and I. C. Prentice, Sensitivity of a dynamic global vegetation model to climate and atmospheric CO₂, *Global Change Biology*, 10, 1223-1239, 2004.
- Gerber, S., F. Joos, P. Brügger, T. F. Stocker, M. E. Mann, S. Sitch, and M. Scholze, Constraining temperature variations over the last millennium by comparing simulated and observed atmospheric CO₂, *Climate Dynamics* 20, 281-299, 2003.
- Joos, F., S. Gerber, I. C. Prentice, B. L. Otto-Bliesner and P. J. Valdes, transient simulations of Holocene atmospheric carbon dioxide and ter-

restrial carbon since the Last Glacial Maximum, *Global Biogeochemical Cycles* 18, GB2002, doi: 10.1029/2003GB002156, 2004.

- Joos, F., I. C. Prentice, S. Sitch, R. Meyer, G. Hooss, G.-K. Plattner, S. Gerber and K. Hasselmann, Global warming feedbacks on terrestrial carbon uptake under the IPCC emission scenarios, *Global Biogeochemical Cycles*, 15, 891-907, 2001.
- P. Köhler, F. Joos, S. Gerber, and R. Knutti, Simulated changes in vegetation distribution, land carbon storage, and atmospheric CO₂ in response to a collapse of the North Atlantic thermohaline circulation, *Climate Dynamics*, 25, 689 - 708, 2005.
- S. Gerber, Modeling the terrestrial biosphere and its role in the global carbon cycle - climate system, *PhD Thesis*, University of Bern, 2003

Conference, workshop and summer school attendances

- 2001 Lund Potsdam Jena Global Dynamic Vegetation workshop, Durbuy, Belgium
Euroconference, Castelvechio, Italy: Achieving climate predictability using paleoclimate data
- 2002 EGS, General Assembly, Nice, France
Lund Potsdam Jena Global Dynamic Vegetation workshop, Durbuy, Belgium
- 2003 EGU, General Assembly, Nice, France
INQUA Conference, Reno, USA
2nd International NCCR Summer School, Grindelwald, Switzerland
- 2005 AGU, General Assembly, San Francisco, USA
- 2006 AGU, General Assembly, San Francisco, USA

Manuscripts in preparation

Gerber, S., Hedin L.O., Pacala S.W., Oppenheimer M., and Shevliakova E., Development of a new global coupled terrestrial carbon-nitrogen cycle model

Brookshire E.N.J, Gerber S., et al., Climate driven nitrogen losses in a moderately polluted temperate forest