Curriculum vitae Thomas Schneider von Deimling

Diplom Geophysiker

email: Thomas.schneider@mpimet.mpg.de

PERSONAL DATA

name: Thomas Schneider von Deimling
date of birth: 01/01/1971
place of birth: Freiburg im Breisgau

RESEARCH AND WORK INTERESTS

Feedbacks in the earth system, quantification of carbon-cycle dynamics triggered by permafrost degradation, thermokarst dynamics, paleo climate modelling, climate tipping points, quantification of model uncertainty

Climate model development

Communication of climate change

WORK EXPERIENCE

Since 12/2015	**Max Planck Institute for Meteorology** (Hamburg) Senior scientist in department “Land in the Earth System”
07/2015-11/2015	Visiting scientist at **Climate Analytics** (Berlin)
01/2015-07/2015	**Alfred Wegener Institute Potsdam** Senior scientist in project *PETA-CARB*
04/2014–06/2014	**Alfred Wegener Institute Potsdam** Senior scientist, 2 months research stay in project *PETA-CARB*
11/2012–04/2014	**Potsdam Institute for Climate Impact Research** Senior scientist. Project leader of *Folgen auftauender Permafrostböden für das Klimasystem*

08/2011–08/2012 **Potsdam Institute for Climate Impact Research**

and **Climate-KIC** (Berlin)

Co-leader of a science outreach project (funded by **Volkswagen Foundation**, *From a Dialogue on Extremes, to Extreme Dialogues*)

Development of a business concept for climate expert-knowledge transfer (10/2011-04/2012)

2009–2012 **Potsdam Institute for Climate Impact Research**

Research scientist in project *PRIMAP*

2006-2009 **Potsdam Institute for Climate Impact Research**

Project leader of *ASSERT (Assessment of Uncertainty in Climate Change Projections)*

EDUCATION AND ACADEMIC DEGREES

2006 **University of Potsdam (Germany)**

Ph.D. in climate physics (summa cum laude)
Thesis: *Constraining uncertainty in climate sensitivity: An ensemble simulation approach based on glacial climate*

2001-2006 **Potsdam Institute for Climate Impact Research (PIK)**

Ph.D. studies in climate physics

1994-2000 **University of Cologne (Germany)**

Graduate studies in geophysics and diploma thesis
Thesis: *Zeitlich optimierte Sensitivitätsberechnung für "Long-Offset Transient Electromagnetics" (LOTEM) unter Verwendung des Reziprozitätsgesetzes*

1998 **Yogyakarta (Indonesia)**

Geophysical field campaign (volcano Merapi)

1997 **British Technology Group (BTG, London)**

Traineeship in technology transfer and technology assessment (7 months)

1991-1994 **University of Freiburg (Germany)**

Undergraduate and graduate studies in physics

Acquisition of third-party funding

Umweltbundesamt (*Folgen auftauender Permafrostböden für das Klimasystem*)

Volkswagenstiftung (*Extremereignisse: Wahrnehmung in Wissenschaft und Gesellschaft*)

DFG (*Datenbasierte Analyse zentraler Rückkopplungsmechanismen im Klimasystem zur Einschränkung der Unsicherheit von Klimaszenarien*)

■ PUBLIC OUTREACH, STUDENT SUPERVISION, TEACHING

Regular scientific presentations at international conferences and at specialized seminar meetings, popular climate science presentations for non-expert audiences, student supervision at Master and Ph.D. level, student seminar courses about climate modeling

■ TECHNICAL EXPERIENCE AND SKILLS

Languages: German: native, English: fluent, French and Spanish: basic skills

Computing: FORTRAN, MATLAB, CLIMBER-2, UNIX/LINUX

Model development
I have developed a computationally efficient model for the probabilistic assessment of permafrost-carbon feedbacks. The model was one out of three permafrost models which were used in a recent UNEP report for quantifying the climatic consequences of permafrost-carbon release (*Policy Implications of Warming Permafrost*, Schaefer et al. 2012). Recently I have constructed a new permafrost-carbon model which allows accounting for abrupt thaw processes and so far un-explored deep carbon deposits.

Regular **review activities**: among others for *Nature Geoscience*, *Biogeosciences, Climate of the Past*, *Geophysical Research Letters*