Curriculum vitae Thomas Schneider von Deimling

Diplom Geophysiker

email: Thomas.schneider@awi.de

PERSONAL DATA

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

WORK EXPERIENCE

Since 10/2017	**Alfred Wegener Institute** (Potsdam) Helmholtz-Zentrum für Polar- und Meeresforschung Senior Scientist in project *PERMARISK*
12/2015-10/2017	**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) Helmholtz-Zentrum für Polar- und Meeresforschung Senior scientist in project *PETA-CARB*
04/2014–06/2014	**Alfred Wegener** (Institute Potsdam) Helmholtz-Zentrum für Polar- und Meeresforschung 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
1991-1994	**University of Freiburg (Germany)** Undergraduate and graduate studies in physics

AQUISITION OF THIRD-PARTY FUNDING

Umweltbundesamt (*Folgen auftauender ermafrostböden 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 modelling

TECHNICAL EXPERIENCE AND SKILLS

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

Computing: FORTRAN, MATLAB, 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 an 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 calculates abrupt thaw processes through lake formation. This approach allows quantifying carbon release from so far un-explored deep carbon deposits.

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