Marcel Nicolaus

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Date of birth:	22. June 1976
City of birth:	Haan (Rheinland), Germany
Family status:	Married
Nationality:	German

03/2007 to present **Post-doctoral position at Norwegian Polar Institute, Tromsø, Norway**

- Spectral albedo and transmission related to snow and sea ice
- Snow and sea ice thermodynamics
- Field measurements in the Arctic within the DAMOCLES EU-project (incl. drifting schooner Tara)

04/2006 to 02/2007 **Post-doctoral position at Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Germany**

- Field measurements (Svalbard) and numerical modelling of snow and sea ice as a part of MariClim project
- Physical properties of snow and sea ice as a function of surface energy balance
- Relations of observed and simulated snow properties on sea ice, icebergs and ice shelves compared to remote sensing data

03/2002 to 03/2006 **PhD position at Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Germany**

Thesis title: „Observation and modelling of snow melt and superimposed ice formation on Arctic and Antarctic sea ice“

- Glaciological and meteorological field measurements on Kongsfjorden (SEBISUP 2002 and 2003) and in the Weddell Sea (ISPOL 2004/05)
  - Surface energy balance on snow and sea ice
  - Albedo and spectral reflectance of snow and sea ice
  - Physical properties and stratigraphy of snow and (sea) ice
  - Superimposed ice formation, mass balance and phase change
- Numerical simulations of snow on sea ice with SNTHERM
  - Validation of field measurements
  - Analyses of additional parameters, not measured in the field
  - Characterising snow-ablation periods on Kongsfjord based on meteorological time series of Koldewey-Station
  - Differences of (snow on) Arctic and Antarctic sea ice based on ECMWF re-analysis data
- Ice-laboratory analyses of sea ice, superimposed ice and snow

10/1996 to 02/2002 **Student at the Westfälische Wilhelms University of Münster, Germany**

- Master: Geophysics
- Minor: Physics, Geology, Geo-Informatics
- Diploma thesis: „Ocean circulation in the ice shelf cavity underneath Ekströmisen, Antarctica “

Further experiences:

- International exchange program between German Academic Exchange Service and the Research Council of Norway
- Summer Schools on Arctic modelling (Fairbanks, USA, 2003) and applied glaciology (GlacioEuroLab, Sweden, 2001)
- Geophysical measurements in the Fram Strait (1999) and Weddell Sea (2001/02)
- Supervising of students and assistants at the institute and during field measurements