

## Short Curriculum Vitae

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German

Please see <http://www.benrabe.de> for an up-to-date list of publications.

You can also find me on ORCID, researchgate, researcherid and SCOPUS.

### Qualifications AND Education

2000 - 2004	<i>PhD</i> research project 'Rotating Exchange Flows Through Straits with Multiple Channels' under the supervision of Dr. David Smeed (James Rennell Division, Southampton Oceanography Centre, UK) and Prof. Harry Bryden (School of Ocean and Earth Science, University of Southampton)
2000	<i>Geophysical and Environmental Fluid Dynamics Summer School</i> , DAMTP, University of Cambridge, UK
1996 - 1999	<i>BSc Oceanography with Physics</i> (Upper Second Class degree; final year research project grade 1st). School of Ocean and Earth Sciences, Southampton Oceanography Centre, UK.
1994 - 1996	<i>German Higher School Leaving Certificate (Abitur)</i> majoring in Physics and Maths (Overall Average: 2.3). Humboldt Oberschule / Berlin, Germany.

### Employed Work

2014-present	<i>Senior Scientist</i> (Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, GERMANY). Additional duties include management within scientific projects and programmes.
2006-2014	<i>Postdoctoral Scientist</i> (Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, GERMANY). Duties include processing, analysis and publication of ocean observations and model output; science project management and fieldwork in the Arctic Ocean; teaching; conveying science to the public.
2010 (Feb-Jun) 2011 / 2012 (Nov-Jan)	<i>Parenting time</i> (part-time work: presentation at two international conferences)
2004-2006	<i>Postdoctoral Scientist</i> (IFM-GEOMAR, Kiel, GERMANY). Duties include analysis of ocean assimilation model output with regards to oceanographic observations, deployment of ARGO floats, processing and analysis of profiling float trajectories and profiles.
2000-2004	<i>Laboratory teaching</i> (Southampton Oceanography Centre).
2000/2001	<i>Library Service Assistant</i> , National Oceanographic Library, Southampton Oceanography Centre, UK.
1999/2000	<i>Research Assistant</i> (James Rennell division, Southampton Oceanography Centre). Analysis and processing of oceanographic model output and cruise data.
1998	<i>Summer job</i> (George Deacon Division, Southampton Oceanography Centre). Processing of biological and physical data from a cruise using Unix workstations. Results were presented in <b>Rabe, B et al., 1998</b> .

### **Cruise Experience (group leader on expeditions since 2008)**

Aug-Oct, 2015 (9 weeks)	German Research Vessel Polarstern; central and Eurasian Arctic
Jun-Jul, 2014 (4 weeks)	German Research Vessel Polarstern; Fram Strait
Aug-Oct, 2012 (10 weeks)	German Research Vessel Polarstern; central and Eurasian Arctic
Aug-Oct, 2011 (9 weeks)	German Research Vessel Polarstern; central and Eurasian Arctic
Aug – Oct, 2008 (10 weeks)	German Research Vessel Polarstern; Canadian and Eurasian Arctic
Jul – Oct, 2007 (11 weeks)	German Research Vessel Polarstern; central and Eurasian Arctic
Jun / Jul, 2006 (5 weeks)	M68/2 (RW Meteor), Recife (Brasil) to Mindelo (Cape Verde Islands)
Jul / Aug, 2005 (4½weeks)	THA2 (RV Thalassa), St. Johns (Canada) to Vigo (Spain)
May / Jun, 2005 (2 weeks)	PIRATA FR13 (RV Le Suroit), Dakar (Senegal) to Cotonou (Benin)
May / Jun, 2000 (2 weeks)	Autosub in the Strait of Sicily (N/O Urania), Trapani to Palermo (Italy)
Jan / Feb, 2000 (6 weeks)	D245 (RRS Discovery), north-east Atlantic from Southampton (UK)

### **Contribution to successful 3rd Party Funding Applications**

BMBF projects: “RACE II: Regional Atlantic Circulation and global change” (B. Rabe, R. Gerdes; 2016-2018); “RACE: Regional Atlantic Circulation and global change” (U. Schauer, R. Gerdes; 2013-2016); “Der Nordatlantik als Teil des Erdsystems” (U. Schauer, R. Gerdes; 2009-2012)

DFG: “Response of Arctic sea level and hydrography to hydrological regime change over boreal catchment” (RASLyBoCa; M. Tourian, N. Sneuw, M. Losch and B. Rabe)

EU: access to large research infrastructures within the 5th framework programme (D. Smeed, B. Rabe; 2002)

### **Management responsibilities**

Principal investigator of subproject “Changes in the freshwater circulation between the Arctic Ocean and the subpolar North Atlantic” within Regional Atlantic Circulation and global change (RACE II; BMBF, Germany)

Leader task “Ice-tethered buoys and ROV” within the strategic investment Frontiers in Arctic Marine Monitoring (FRAM; AWI and Helmholtz Society, Germany)

Co-principal Investigator of project “Response of Arctic sea level and hydrography to hydrological regime change over boreal catchment” (RASLyBoCa) within SPP „SeaLevel” (DFG, Germany)

Deputy leader of workpackage “Arctic sea ice and its interaction with ocean and ecosystems” within the PACES II research programme (AWI and Helmholtz Society, Germany)

Co-leader of “OCEAN” team within the international project Multidisciplinary drifting Observatory for the Study of Arctic Climate (MOSAiC; coordinated by Germany and the USA)

Group leader during icebreaker expeditions to the central Arctic Ocean

### **Reviewer Activities**

Journals: Progress in Oceanography, Ocean Science, Continental Shelf Research, Journal of Geophysical Research, Journal of Physical Oceanography, Deep-Sea Research, Ocean Dynamics, Elementa: Science of the Anthropocene, Journal of Atmospheric and Oceanic Technology, Journal of Oceanography

Other: USA National Science Foundation (NSF), German Science Foundation (DFG), USA National Oceanographic and Atmospheric Administration (NOAA), Natural Sciences and Engineering Research Council of Canada (NSERC)

### **Teaching**

“Elements of Physical Oceanography” as part of the “ISATEC” Master programme (University of Bremen)

“Physikalische Ozeanographie” as part of the programme “Maritime Technologien” (Hochschule Bremerhaven)