

Kristin Richter, PhD

curriculum vitae

PERSONAL DATA

AFFILIATION: Institute of Meteorology and Geophysics
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WORK EXPERIENCE AND EDUCATION

Apr 2013 – PostDoc, Institute for Meteorology and Geophysics, University of Innsbruck, Austria.
current

Feb 2012 – PostDoc, Geophysical Institute and Centre for Climate Dynamics, University of
Mar 2013 Bergen, Norway. Project: Sea level changes and ice sheet dynamics (SEALEV)

2010–2011 Research Assistant, Uni Research and Bjerknes Centre for Climate Research, Bergen,
Norway. Analysis of changes in sea level along the Norwegian coast during the last
50-100 years. Observed changes, steric changes, land rise.

Aug 2011 PhD PHYSICAL OCEANOGRAPHY, Geophysical Institute, University of Bergen, Nor-
way. Thesis: “Influence of large-scale atmospheric forcing on North Atlantic - Nordic
Seas Ocean Circulation”

2006-2010 Teaching assistant and PhD student, Geophysical Institute, University of Bergen,
Norway

Jul-Dec 2008 Visiting scholar/exchange semester at the School of Oceanography, University of
Washington, USA

Jul 2005 M.Sc PHYSICAL OCEANOGRAPHY University of Bergen, Norway. Thesis: “Mixing
and internal waves at high latitudes”

2003–2004 Graduate exchange student ARCTIC GEOPHYSICS at University centre on Svalbard,
Norway

1999–2003 Undergraduate/graduate studies of PHYSICS, University of Potsdam, Germany

RESEARCH INTERESTS

Sea level rise and change along the Northern European coast and global sea level rise projections
North Atlantic climate variability
Influence of large-scale atmospheric forcing on North Atlantic-Nordic Seas ocean circulation
Statistical methods in climate sciences

TEACHING

2007–2013	Instructor at Ice Climate Education youthcamps, Iceland and Norway
2006–2009	Laboratory course in Physical and Dynamical Oceanography
2007–2008	Introduction to MatLab, lectures and practical exercises
2006–2007	Exercises in Dynamical Oceanography

PUBLICATIONS

Richter, K., R.E.M. Riva, and H. Drange (2013), Impact of self-attraction and loading effects induced by shelf mass loading on projected regional sea level rise, *Geophys. Res. Lett.* 40, doi:10.1002/grl.50265.

Nilsen, J.E.Ø., H. Drange, **K. Richter**, E. Jansen, A. Nesje (2012). "Changes in the past, present, and future sea level on the coast of Norway". NERSC Special Report 89, Bergen, Norway. 48 pp.

Richter, K., J.E.Ø. Nilsen, and H. Drange (2012b), Contributions to sea level variability along the Norwegian coast for 1960–2010, *J. Geophys. Res.* 117, C05038, doi:10.1029/2011JC007826,

Richter, K., O.H. Segtnan, and T. Furevik (2012a), Variability of the Atlantic inflow to the Nordic seas and its causes inferred from observations of sea surface height, *J. Geophys. Res.* 117, C04004, doi:10.1029/2011JC007719

Richter, K. and S. Maus (2011), Interannual variability in the hydrography of the Norwegian Atlantic Current: frontal versus advective response to atmospheric forcing, *J. Geophys. Res.*, 116, C12031, doi:10.1029/2011JC007311

Richter, K., T. Furevik, and K.A. Orvik (2009), Effect of wintertime low-pressure systems on the Atlantic inflow to the Nordic seas, *J. Geophys. Res.*, 114, C09006, doi:10.1029/2009JC005392.

SELECTED PRESENTATIONS AND POSTERS

Richter, K., R. Riva and H. Drange, 21st century sea surface height projections based on CMIP5 scenarios. Bjerknes Center 10-years anniversary conference, Bergen, Norway, Sep 2012 (accepted poster)

Richter, K., Sea level - past, present and future. International youth camp (ICE), Husavik, Iceland and Ryvar, Norway, June 2010, 2012 (oral)

Richter, K., J.E.Ø. Nilsen, and H. Drange, Contributions to sea level variability along the Norwegian coast for 1960–2010. CRES workshop on sea level rise, Copenhagen, Denmark, 23.05.2012 (oral).

Richter, K., J.E.Ø. Nilsen, and H. Drange, Contributions to sea level variability along the Norwegian during the past 50 years. Centre for Climate Dynamics opening, Bergen, Norway, 02.12.2012 (oral).

Richter, K., Influence of the atmosphere on North Atlantic - Nordic Seas ocean circulation. PhD defense, Geophysical Institute, Bergen, 23.08.2011 (oral)

Nilsen, J.E.Ø, **K. Richter** and H. Drange (2011). Changes in past, present and future sea level, focusing on the Norwegian west coast. Lecture for Danish Institute for Study Abroad (DIS), Bergen, 26.06.2011 (oral).

Richter, K., Wind-driven ocean circulations - from the subtropical gyres to the polar oceans. Trial lecture, Geophysical Institute, Bergen, 20.06.2011 (oral)

Richter, K., J.E.Ø. Nilsen and H. Drange (2011). Contributions to sea level variability along the coast of Norway during the past 50 years. EGU General Assembly, Vienna, Austria, Apr 2011 (poster).

Richter, K. and S. Maus, Interannual variability in the hydrography of the Norwegian Atlantic Current: local forcing versus advection. EGU General Assembly, Vienna, Austria, Apr 2011 (poster).

Nilsen, J.E.Ø, **K. Richter** and H. Drange (2010). Changes in past, present and future sea level, focusing on the Norwegian west coast. Norwegian Geophysical Society symposium, Geilo, 17.09.2010 (oral).

Nilsen, J.E.Ø, **K. Richter** and H. Drange (2010). "Changes in the past, present, and future sea level on the coast of Norway". "Floods and Sea Level Rise in the Cities of the Future", TEKNA-conference, Stavanger, 26.04.2010 (oral).

Nilsen, J.E.Ø, **K. Richter** and H. Drange (2010). Changes in past, present and future sea level, focusing on the Norwegian west coast. MARE Climate Forum, Bergen, 25.05.2010 (oral).

Richter, K. and S. Maus, Variability of Atlantic water masses in the Svinøy section: Mechanisms, preferred time scales and relation to NAO. Water mass transformation in the Nordic Seas, Bergen, Mar 2010 (oral)