

## **Publication list**

### ***Peer-reviewed articles:***

**Drinkwater K, M Miles, I Medhaug, OH Otterå, T Kristiansen, S Sundby and Y Gao** The Atlantic Multidecadal Oscillation: its manifestations and impacts with special emphasis on the region north of 60°N. *Journal of Marine Systems*, 2013 in press, doi:10.1016/j.jmarsys.2013.11.001.

**Iversen, T, M Bentsen, I Bethke, JB Debernard, A Kirkevåg, Ø Seland, H Drange, JE Kristjansson, I Medhaug, M Sand, and IA Seierstad** The Norwegian Earth System Model, NorESM1-M. Part 2: Climate Response and Scenario Projections. *Geoscientific Model Development*, 2013, 6:389-415, doi:10.5194/gmd-6-389-2013.

**Langehaug, HR, I Medhaug, T Eldevik and OH Otterå** Arctic/Atlantic exchanges via the Subpolar Gyre. *J Climate*, 2012, 25:2421-2439, doi: 10.1175/JCLI-D-11-00085.1.

**Medhaug, I, HR Langehaug, T Eldevik, T Furevik and M Bentsen** Mechanisms for decadal scale variability in a simulated Atlantic Meridional Overturning Circulation. *Climate Dynamics*, 2012, 39:77-93, doi: 10.1007/s00382-011-1124-z.

**Medhaug, I, and T Furevik** North Atlantic 20<sup>th</sup> Century Multidecadal Variability in Coupled Climate Models: Sea Surface Temperature and Ocean Overturning Circulation. *Ocean Science*, 2011, 7: 389-404, doi: 10.5194/os-7-389-2011.

**Medhaug, I, JA Olseth and J Reuder** UV Radiation and Skin Cancer in Norway. *J Photochemistry and Photobiology – B: Biology*, 2009, 96: 232-241, doi: 10.1016/j.jphotobiol.2009.06.011

### ***PhD thesis:***

**Medhaug, I** North Atlantic multidecadal variability in coupled climate models – Mechanisms and responses. *Geophysical Institute, University of Bergen, Norway*, 2011, pp 137, ISBN 978-82-308-1747-6.

### ***Masters thesis:***

**Medhaug, I** Reconstruction of UV-radiation and its potential implications on development of skin cancer. *Geophysical Institute, University of Bergen, Norway*, 2007, pp 106.

[http://i115srv.vu-](http://i115srv.vu-wien.ac.at/uv/COST726/COST726_Dateien/Results/COST726_Results_Theses.htm)

[wien.ac.at/uv/COST726/COST726\\_Dateien/Results/COST726\\_Results\\_Theses.htm](http://i115srv.vu-wien.ac.at/uv/COST726/COST726_Dateien/Results/COST726_Results_Theses.htm)

### ***Conference and scientific meeting contributions:***

**Medhaug, I, H Drange** Global and regional surface cooling in a warming climate; a multi-model analysis. Bjercknes Getaway, Geilo, Norway, 13-15.01.2014. [Oral presentation]

**Medhaug, I** Surface exchange between subpolar and subtropical North Atlantic using virtual drifters. SKD Days, Bergen, Norway, 17-18.10.2013 [Oral presentation]

**Medhaug, I, A Czaja** A lagrangian view of the North Atlantic surface circulation and heat transport in the Bergen Climate Model. Challenger Society Modelling meeting, London, UK, 09-10.09.2013 [Oral presentation]

**Medhaug, I, A Czaja** Investigating North Atlantic surface ocean circulation using virtual drifters. Bjerknes GetAway, Geilo, Norway, 22.01.2013 [Oral presentation]

**Medhaug, I** Atlantic Ocean Circulation – Changing the focus from overturning to gyre. University of Oxford, Oceanography group, Oxford, UK, 31.10.2012 [Invited talk]

**Medhaug, I, H Drange** Global cooling in a warming climate, The Bjerknes Center's 10th Anniversary Conference, Bergen, Norway, 06.09.2012 [Oral presentation]

**Medhaug, I, HR Langehaug, T Eldevik, OH Otterå, T Furevik, and M Bentsen** Mechanisms for decadal scale variability in the North Atlantic Ocean circulation in the Bergen Climate Model. European Geoscience Union (EGU), General Assembly 2012; Vienna, Austria, 2012, EGU2012-5921 [Oral presentation]

**Medhaug, I** The variability of the Atlantic Meridional Overturning Circulation - The Nordic Seas in a new perspective. Imperial College London - Space and Atmospheric physics meeting, London, UK, 12.03.2012. [Oral presentation]

**Langehaug, HR, I Medhaug, T Eldevik, OH Otterå, T Furevik, and M Bentsen** Mechanisms for decadal scale variability in the North Atlantic Ocean circulation in the Bergen Climate Model. ASOF/THOR joint meeting, Bergen, Norway, 10.11. 2011 [Oral presentation]

**Medhaug, I** The role of the southern ocean for the Atlantic Meridional Overturning Circulation (AMOC). Trial lecture for the degree of PhD, University of Bergen, Norway, 21.03.2011 [Oral presentation]

**Langehaug, HR, P Rhines, I Medhaug, T Eldevik, OH Otterå and C Bitz** Distribution of the Northern Water Mass Formation completing the Atlantic Meridional Overturning Circulation. AGU Fall Meeting, San Francisco, USA, 13-17.12.2010 [Oral presentation]

**Langehaug, HR, I Medhaug and T Eldevik** Sources and sinks for heat and salt in the Arctic Mediterranean via exchanges at the Greenland-Scotland Ridge. Arctic Ocean Model Intercomparison Project, Woods Hole, USA; 19-22.10.2010 [Oral presentation]

**Medhaug, I, and HR Langehaug** Mechanisms for AMOC variability in the modelled pre-industrial climate; POCAHONTAS – BIAC symposium on “Polar ocean-atmosphere circulation and processes”, Rosendal, Norway, 20-23.09.2010 [Invited talk]

**Medhaug, I** Mechanisms for AMOC variability in pre-industrial climate in BCM; NorClim annual meeting, Voss, Norway, 2-3.09.2010 [Oral presentation]

**Langehaug, HR, I Medhaug, T Eldevik and OH Otterå** Variability in Northern Deep Water Masses on Decadal scale. IPY 2010, Oslo, Norway; 8-12.06.2010 [Oral presentation]

**Langehaug, HR, I Medhaug, T Eldevik and OH Otterå** Northern Water Mass Transformation; European Geoscience Union (EGU), General Assembly 2010; Vienna, Austria, 2-7.05.2010 [Poster presentation]

**Langehaug, HR, I Medhaug and T Eldevik** Open-ocean deep convection in Climate Models. Atmospheric-Ocean Interaction Workshop, Bergen, Norway; 12-14.04.2010 [Oral presentation]

**Langehaug, HR, and I Medhaug** Atlantic meridional overturning circulation; Bjerknes GetAway, Geilo, Norway, 18.01.2010 [Oral presentation]

**Medhaug, I, and T Furevik** North Atlantic 20<sup>th</sup> Century Climate Variability in Coupled Climate Models; MOCA-09, Montreal, Canada, 19-29.7.2009 [Oral presentation]

**Olseth, JA, I Medhaug, J Reuder, BB Sjølingstad, O Sætre, D Deyang and B Johnsen** Measured and modelled UV-radiation in Norway; COST726 Final Seminar, Warsaw, Poland, 13-14.5.2009 [Oral presentation]

**Medhaug, I** Climate variability in the North Atlantic in the 20<sup>th</sup> century; Climate Teleconnection Between High and Low Latitudes – Summer School, NZC-IAP Chinese Academy of Science, Beijing, China, 27-31.10-2008 [Poster presentation]

**Medhaug, I, JA Olseth and J Reuder** UV-radiation and skin cancer in Norway; The Nordic Meteorology Conference (NMM2008); Reykjavik, Iceland 2-6.6.2008 [Poster presentation]

**Olseth, JA, I Medhaug, J Reuder, BB Sjølingstad and O Sætre.** Measured and modelled UV radiation in Norway; The Nordic Meteorology Conference (NMM2008); Reykjavik, Iceland 2-6.6.2008 [Oral presentation]

**Medhaug, I, JA Olseth and J Reuder** Reconstruction of UV-radiation in Norway; European Geoscience Union (EGU), General Assembly 2008; Vienna, Austria, 13-18.4.2008 [Poster presentation]

**Olseth, JA, I Medhaug, J Reuder, BB Sjølingstad and O Sætre** UV-radiation in Norway: Measurements, reconstructions and applications; UV Conference "One century of UV radiation research"; Davos, Switzerland, 18- 20.9.2007 [Oral presentation]

**Medhaug, I** Reconstruction of UV radiation and its potential implications on development of skin cancer; Workshop at Cost 726 "Long term changes and climatology of UV radiation over Europe" MCM9-meeting; Davos, Switzerland, 17.9.2007 [Oral presentation]

**Olseth, JA, I Medhaug, J Reuder, BB Sjølingstad and O Sætre** UV-radiation: Examples from Bergen on measurements, Reconstructions and Applications; Workshop at Cost 726 "Long term changes and climatology of UV radiation over Europe" MCM8-meeting; Budapest, Hungary, 29-30.3.2007 [Oral presentation]

***Popular-science presentations:***

**Medhaug, I** Kan kalde vinder fra Arktis gi varmere hav? [Can cold winds from the Arctic give a warmer ocean?]. Research Council of Norway Climate conference, Oslo, Norway, 30-31.10.2013 [Invited talk]

**Medhaug, I** A tour of the North Atlantic through the eyes of a "float". Advanced Climate Dynamics Summer School (ACDC 2013), Nyksund, Norway, 19 - 30.08.2013 [Invited talk]

**Medhaug, I** Vil Golfstrømmen stoppe [Will the Gulf Stream stop]?. Studentseminar om vær og klima [Student seminar on weather and climate], Bergen, Norway, 18.10.2010 [Invited talk]