

## ***Eystein Jansen CV***

Born 1953 in Bergen Norway, Sex: M

Nationality: Norwegian

**Current positions:** Full professor, University of Bergen/Strategy Advisor Bjerknes Centre for Climate Research/Adjunct senior scientist Uni Research

### ***Brief statement***

From an interdisciplinary background in paleoclimate research and oceanography I initiated and led the Bjerknes Centre for Climate Research - a national Centre of Excellence, which was established after a national competition, as its director 2000-2013, during which it has more than tripled in size (to 190 scientists and PhD-students, and has received praise as a leading international research centre in climate research, e.g. by the international review of the quality of Norwegian Earth Science in 2011.

I have co-ordinated and been PI in several multi-institutional and multidisciplinary projects within the EU Framework programmes and RCN funding schemes, within paleoclimatology and climate science in general, and have served on the steering committee of a number of international research programmes within Earth System and Global Change research. Currently I am on the executive board of the European Climate Research Alliance (ECRA). I have led several multi-institutional international research expeditions and am well acquainted with research infrastructure needs in the fields of climate and earth system science.

From August 2014 I am one of 4 co-PIs on a large ERC Synergy Grant project, Ice2Ice, funded for the next 5 years, focussing on abrupt climate change. I have published more than 120 papers in peer review literature, primarily in paleoclimate science, my work is cited more than 10000 times, with an H-factor of 55. I also serve on the Earth System Panel for evaluation of ERC Advanced Grants.

Through my tenure as Coordinating Lead Author in IPCC AR4 and Lead Author in IPCC AR5 I have a broad overview of the current state of climate research and on the applicability and communication of climate research and climate model simulations to stakeholders and the public. In AR5 I also served as Lead Author for the Summary for Policymakers in IPCC WG1. From this background and additional experience from the directorship of the Bjerknes Centre at the climate/policy interface I have extensive experience in engaging with private and public stakeholders and with media over the broad climate change adaptation and mitigation spectrum in Europe, USA, China and India.

### ***Professional background:***

1993 - present: Full Professor in Marine Geology/Paleoceanography, Univ. of Bergen

2000-2012: Director Bjerknes Centre for Climate Research

1985- 1993: Associate professor in Marine Geology, Univ. of Bergen.

1981-1984: Research assistant (PhD student), Univ. of Bergen.

1990- 2000: Senior adjunct scientist Nansen Env. and Remote Sensing Center, Bergen

1987: Visiting scientist Dep. of Earth Sciences, Univ. of Kiel, Germany

1989: Visiting scientist Lamont Doherty Earth Observatory, Columbia University, USA

### ***Graduate education:***

1984: PhD degree, Univ. of Bergen

1981: MSc degree, Univ. of Bergen

### ***Supervision and mentoring:***

- Main advisor to 21 students for MSc degree and 11 students for PhD degrees. In addition 4 students currently in PhD programme
- My former PhD students and post docs have gone into senior positions both in the private sector, primarily energy industry, environmental agencies and research, including professors at Norwegian and European universities.

### ***Memberships of scientific academies:***

- Member of Academia Europaea
- Member of The Norwegian Academy of Science and Letters

- Member of The Norwegian Academy of Technological Sciences
- Member of The Norwegian Scientific Academy for Polar Research

**Key recent international and national appointments:**

2012-present: Member of Executive committee for the European Climate Research Alliance (ECRA)  
 2010-2013: Lead author IPCC AR5, WG1-Ch5 Paleoclimates, and Summary for Policy Makers/Technical Summary author team  
 2004-2007: Co-ordinating lead Author IPCC 4th Assessment Report WG 1-Ch6 Paleoclimates  
 2003-2009: Co-chair of CLIVAR-PAGES intersection panel. Member:2009 to present  
 2003-2009: Member of PAGES-IGBP Scientific Steering Committee  
 2006-2010: Member of Steering Committee for the ESF Euromarc Programme  
 1989-1994: Member of the Ocean Drilling Program Ocean History Panel 1989-1994  
 2004-2011: Member of the program board for the Norwegian climate research programme (NORKLIMA) RCN  
 2011-2014: Member of the expert advisory board Norway-India research programme, RCN  
 2015-> Member of the Earth System Science panel for ERC Advanced Grants.

**Current editorial appointments:**

- Member of the Editorial Board for the journal *Climate Dynamics*

**Recent assignments:**

- Regular reviewer for proposals from national funding agencies in USA, UK, France, Germany, the Netherlands, Sweden, EU
- Regular reviewer for Nature, Science and leading specialist journals
- Regular consultant for promotions and tenure: e.g Royal Society membership, Tenure at MIT, Columbia University, Penn State Univ., Stockholm University
- 2010-present: Member of the Scientific Advisory Board for ICR3-Climate Centre, Barcelona, Spain
- 2005-2011: Member of the Advisory Board for MARUM, Bremen, Germany
- 2012: Member of the science review board for the Alfred Wegener Institute, Germany
- 2013->: Member of the scientific advisory board for the Bert Bolin Centre, Stockholm

**Selected recent publications:**

*Citations (Google scholar): 12946 (since 2011: 6585), H-Index: 55*

*A full publication list with citations can be found at:*

[https://scholar.google.no/citations?hl=no&user=YnmZaSwAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.no/citations?hl=no&user=YnmZaSwAAAAJ&view_op=list_works&sortby=pubdate)

M Moros, JM Lloyd, K Perner, D Krawczyk, T Blanz, A de Vernal, Ouellet-Bernier, A Kuijpers, AE Jennings, Aj Witkowski, R Schneider, **E Jansen**, 2016: Surface and sub-surface multi-proxy reconstruction of middle to late Holocene palaeoceanographic changes in Disko Bugt, West Greenland, *Quaternary Science Reviews* 132, 146-160

K Perner, M Moros, JM Lloyd, **E Jansen**, R Stein, 2015: Mid to late Holocene strengthening of the East Greenland Current linked to warm subsurface Atlantic water, *Quaternary Science Reviews* 129, 296-307

AD Tegzes, **E Jansen**, RJ Telford, 2015: Which is the better proxy for paleo-current strength: sortable-silt mean size ( $SS^{\square}$ ) or sortable-silt mean grain diameter (dSS)? A case study from the Nordic Seas, *Geochemistry, Geophysics, Geosystems* 16 (10), 3456-3471

MJR Simpson, JEØ Nilsen, OR Ravndal, K Breili, H Sande, HP Kierulf, H Steffen, **E Jansen**, M Carson, O Vestøl, 2015: Sea Level Change for Norway: Past and Present Observations and Projections to 2100, Norwegian Centre for Climate Services report 1

VR Krossa, M Moros, T Blanz, **E Jansen**, R Schneider, 2014: Late Holocene Baltic Sea outflow changes reconstructed using C37: 4 content from marine cores. *Boreas*

- AD Tegzes, **E Jansen**, RJ Telford, 2014: The role of the northward-directed (sub) surface limb of the Atlantic Meridional Overturning Circulation during the 8.2 ka Event. *Climate of the Past* 10, 665-687
- AT Kotilainen, L Arppe, S Dobosz, **E Jansen**, K Kabel, J Karhu, 2014: Echoes from the past: A healthy Baltic Sea requires more effort. *Ambio* 43 (1), 60-68
- MW Miles, DV Divine, T Furevik, **E Jansen**, M Moros, AEJ Ogilvie, 2014: A signal of persistent Atlantic multidecadal variability in Arctic sea ice. *Geophysical Research Letters* 41 (2), 463-469.
- Masson-Delmotte, V., M. Schulz, A. Abe-Ouchi, J. Beer, A. Ganopolski, J.F. González Rouco, **E. Jansen**, K. Lambeck, J. Luterbacher, T. Naish, T. Osborn, B. Otto-Bliesner, T. Quinn, R. Ramesh, M. Rojas, X. Shao and A. Timmermann, 2013: Information from Paleoclimate Archives. In: *Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 383–464, doi:10.1017/CBO9781107415324.013.
- Alexander, Lisa V.; Allen, Simon K.; Bindoff, Nathaniel L.; Bréon, François-Marie; Church, John A.; Cubasch, Ulrich; Emori, Seita; Forster, Piers; Friedlingstein, Pierre; Gillett, Nathan; Gregory, Jonathan M.; Hartmann, Dennis L.; **Jansen, Eystein**; Kirtman, Ben; Knutti, Reto; Kanikicharla, Krishna Kumar; Lemke, Peter; Marotzke, Jochem; Masson-Delmotte, Valérie; Meehl, Gerald A.; Mokhov, Igor I.; Piao, Shilong; Plattner, Gian-Kasper; Qin, Dahe; Ramaswamy, Venkatachalam; Randall, David; Rhein, Monika; Rojas, Maisa; Sabine, Christopher; Shindell, Drew; Stocker, Thomas F.; Talley, Lynne D.; Vaughan, David G.; Xie, Shang-Ping. 2013 Summary for policymakers. In: Stocker, Thomas F et al., (eds.) *Climate Change 2013: The physical science basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge, Cambridge University Press, 3-29.
- Stocker, T.F., D. Qin, G.-K. Plattner, L.V. Alexander, S.K. Allen, N.L. Bindoff, F.-M. Bréon, J.A. Church, U. Cubasch, S. Emori, P. Forster, P. Friedlingstein, N. Gillett, J.M. Gregory, D.L. Hartmann, **E. Jansen**, B. Kirtman, R. Knutti, K. Krishna Kumar, P. Lemke, J. Marotzke, V. Masson-Delmotte, G.A. Meehl, I.I. Mokhov, S. Piao, V. Ramaswamy, D. Randall, M. Rhein, M. Rojas, C. Sabine, D. Shindell, L.D. Talley, D.G. Vaughan and S.-P. Xie, 2013: Technical Summary. In: *Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Stocker, T.F., D. Qin, G.-K. Plattner, M. Tignor, S.K. Allen, J. Boschung, A. Nauels, Y. Xia, V. Bex and P.M. Midgley (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.
- Karoline Kabel, Matthias Moros, Christian Porsche, Thomas Neumann, Florian Adolphi, Thorbjørn Joest Andersen, Herbert Siegel, Monika Gerth, Thomas Leipe, **Eystein Jansen**, Jaap S Sinninghe Damsté, 2012. Impact of climate change on the Baltic Sea ecosystem over the past 1,000 years. *Nature Climate Change* 2 (12), 871-874
- ZS Zhang, Kerim Nisancioglu, Mats Bentsen, Jerry Tjiputra, Ingo Bethke, Qing Yan, Bjørge Risebrobakken, Carin Andersson, **Eystein Jansen**, 2012: Pre-industrial and mid-Pliocene simulations with NorESM-L. *Geoscientific Model Development* 5 (2), 523-533
- P De Deckker, M Moros, K Perner, **E Jansen**, 2012: Influence of the tropics and southern westerlies on glacial interhemispheric asymmetry. *Nature Geoscience* 5 (4), 266-269
- M Moros, **E Jansen**, DW Oppo, J Giraudeau, A Kuijpers, 2012: Reconstruction of the late-Holocene changes in the Sub-Arctic Front position at the Reykjanes Ridge, north Atlantic,

## The Holocene.

Aline Govin, Pascale Braconnot, Emilie Capron, Elsa Cortijo, J-C Duplessy, **Eystein Jansen**, Laurent Labeyrie, Amaelle Landais, Olivier Marti, Elisabeth Michel, Eloi Mosquet, Bjørg Risebrobakken, Didier Swingedouw, Claire Waelbroeck, 2012: Persistent influence of ice sheet melting on high northern latitude climate during the early Last Interglacial, *Clim. Past*, 8, 483–507.

Lloyd, Jeremy; Moros, Matthias; Perner, Kerstin; Telford, Richard; Kuijpers, Antoon; **Jansen, Eystein**; McCarthy, David, 2011. A 100 year record of ocean temperature control on the stability of Jakobshavn Isbrae, West Greenland. *Geology*.

Kleiven, Helga F. , Hall, Ian. R., McCave, I. Nick Knorr, Gregor, **Jansen, Eystein**, 2011, Coupled Deep-Water Flow and Climate Variability in the Mid-Pleistocene North Atlantic , *Geology*

Bjørg Risebrobakken, Trond Dokken, Lars Henrik Smedsrud, Carin Andersson, **Eystein Jansen**, Matthias Moros and Elena V. Ivanova, 2011: Early Holocene temperature variability in the Nordic Seas: The role of oceanic heat advection versus changes in orbital forcing, *Paleoceanography*, DOI: 10.1029/2011PA002117

Waelbroeck, et al. (incl. **Jansen, Eystein**) (2009) Constraints on the magnitude and patterns of ocean cooling at the Last Glacial Maximum. *Nature Geoscience* ;Volum 2.(2) s. 127-132

**Jansen, Eystein**; Andersson, Carin; Moros, Matthias; Nisancioglu, Kerim Hestnes; Nyland, Birgitte Friestad; Telford, Richard, 2008. The early to mid-Holocene thermal optimum in the North Atlantic. In: *Battarbee R.W.; Binney H.A. (Eds.). Natural Climate Variability and Global Warming: a Holocene Perspective*. Blackwell Publishing, ISBN 978-1-4051-5905-0, p. 123-137.

**Jansen, Eystein**; Overpeck, J.T.; 9, co-authors, 2007. Chapter 6: Paleoclimate. In: *Solomon, S.; Qin D.; Manning M.; Chen Z.; Marquis M.; Averyt K.B.; Tignor M.; Miller H.L. (Eds.) Climate Change 2007 - The physical Basis - Working Group I Contribution to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge University Press, ISBN 978-0-521-88009-1.