

Curriculum Vitae for Tor Eldevik

PERSONAL INFORMATION

Name Tor Eldevik
Position Professor and Research leader in large-scale oceanography/decadal climate dynamics
Affiliation Geophysical Institute (GFI) and Centre for Climate Dynamics (SKD) at the Bjerknes Centre for Climate Research (BCCR), University of Bergen (UiB), PO box 7803, N-5007 Bergen, Norway
E-mail tor.eldevik@gfi.uib.no
WWW www.uib.no/persons/Tor.Eldevik, people.uib.no/tel083
Date of birth 28/2/1970
Marital status Married, two daughters (born 2005 and 2008)
Nationality Norwegian

EMPLOYMENT HISTORY

2013–present Professor in oceanography, Geophysical Institute, UiB
2012–present Research leader, large-scale oceanography/decadal climate dynamics at SKD/BCCR
2010–2013 Associate professor in oceanography, Geophysical Institute, UiB
2001–2010 Research scientist at G.C. Rieber Climate Institute, Nansen Environmental and Remote Sensing Center (NERSC)
2008–2009 3.5 months of paternal leave
2005–2006 3.5 months of paternal leave
2001, 2005 Lecturer at the Department of Mathematics (DoM), UiB
2000–2001 Associate professor in hydrodynamics (temporary appointment) at DoM, UiB
1996–2000 Research Fellow (dr. scient. student) at DoM, UiB

EDUCATION AND ACADEMIC APPOINTMENTS

2014–present Deputy Director BCCR
2014 Promoted to full professor, effective of Sept 15th 2013
2013–present Co-leader BCCR Research Group 4 *Large-scale atmosphere-ocean dynamics*
2006–2012 Leader of BCCR Research Group 3 *Ocean-ice-atmosphere processes*
2004–2010 Deputy leader of G.C. Rieber Climate Institute, NERSC
2004–2006 Leader of BCCR Research Activity 6 *Marine climate processes and feedbacks*
2000 Dr. scient. in hydrodynamics, DoM, UiB, Norway; supervisors Prof Kristian B. Dysthe and Prof Jarle Berntsen
1998 Honorary Associate in the School of Mathematics, Faculty of Science and Technology, University of New South Wales (UNSW), Sydney, Australia (8/1998–2/1999)
1996 Cand. scient. in plasma dynamics, DoM, UiB, Norway; supervisor Prof Alf H. Øien

AWARDS AND SCHOLARSHIPS

1998 Scholarship from the Research Council of Norway to stay at the School of Mathematics, UNSW, Sydney, Australia
1996 Dr. scient. scholarship from UiB
1994, 1995 L. Meltzers høyskolefond

SUPERVISION AND MENTORING

Master/cand. scient.

Henriette B. Skaret, *The Arctic Sea ice – melting in summer or not freezing in winter?*, ongoing
Rebekka J. Steene (at the Norwegian University of Life Sciences, NMBU), *The changing Arctic sea ice cover – regional and seasonal aspects*, 2014, presently at BCCR
Natasha Ridenour, *Wind influence on sea ice transport through the Svalbard–Franz Josef Land gate*, 2014
Samah Satti, *Constraining the exchanges through the strait of Bab el Mandab*, 2012; presently at the University of Khartoum
Stine Hermansen, *The fate of the Atlantic Water in the North Icelandic Irminger Current*, 2012; presently at the Norwegian Meteorological Institute
Ingvild Lygren, *Generation of submesoscale eddies and fronts in the ocean*, 2001; presently at Statoil

Agathe Sørflaten, *Generation of sea surface spiral eddies*, 2001

Ph.d.

Erwin Lambert, *Northern constraints on the Atlantic thermohaline circulation*, ongoing (**main supervisor**)

Ingrid H. Onarheim, *The changing Arctic sea ice cover – melting versus not freezing*, ongoing (**main supervisor**)

Thorleif Lothe, *On the assimilation of North Sea bottom temperature in an operational ocean model*, ongoing

Tor L. Mjell, *Decadal to millennial scale variability in Iceland-Scotland Overflow Water and its relationship to climate*, 2014

Roshin P. Raj, *The circulation of the Norwegian Sea – An investigation from space and ocean*, 2014; presently at NERSC

Helene R. Langehaug, *Circulation and transformation of Atlantic and Arctic water masses in climate models*, 2011; presently at NERSC (**main supervisor**)

Florian Geyer, *Overflow and topographically induced mixing on the Svalbard shelf*, 2010; presently at NERSC (**main supervisor**)

Doroteaciro Iovino, *On the Nordic Seas' role in the Atlantic Meridional Overturning Circulation*, 2007; presently at The Euro-Mediterranean Center on Climate Change, Bologna, Italy (**main supervisor**)

Benjamin Marzeion, *The influence of vertical mixing on the stability of the Atlantic Meridional Overturning Circulation*, 2006; presently at Institute of Meteorology and Geophysics, University of Innsbruck, Austria

Postdoctoral

Dr. Marius Årthun, *Predictability of Arctic/North Atlantic climate*, ongoing

Dr. Mirjam S. Glessmer, *Northern salt*, 2011–2013; presently at Hamburg University of Technology

Dr. Kjetil Våge, *On the origin of the Denmark Strait Overflow Water*, 2010–2012; presently at GFI, UiB

Dr. Kevin I.C. Oliver, *Overflows, circulation and deep convection in the Nordic Seas using tracers in models*, 2005; presently at National Oceanography Centre, Southampton

TEACHING AND PEDAGOGICAL EXPERIENCE

(Available UiB course evaluations are found at <https://quality.app.uib.no/>)

GEOF210 Data Analysis in Meteorology and Oceanography, Geophysical institute, GFI, 2010–2012

MAT253 Hydrodynamics, Department of Mathematics (DoM), UiB, 2005

M119 Matematiske metoder II, an introductory course in partial differential equations, DoM, UiB, 1999, 2001

M100 Grunnkurs i matematikk I, an introductory course in calculus, Department of Mathematics (DoM), UiB, 2000

Teaching assistant at DoM, UiB in different courses on *Calculus, Ordinary and Partial Differential Equations, Complex Functions and Multivariable Functions*, 1992–1998

Mathematics and Computing, Bergen federal penitentiary (Åsane videregående skole, avd. Bergen landsfengsel), 1995

Course in *University pedagogics (basismodul)*, UiB, 2011

Member of the *Working group on Learning outcomes*, Faculty of Mathematics and Natural Sciences, UiB, 2010

PROJECT PARTICIPATION AND MANAGEMENT

Research Council of Norway, *ECHO: Extending the instrumental reCORD of North Atlantic Ocean climate variability* (2015–2017)

Research Council of Norway, *NORTH: NORthern constraints on the Atlantic ThermoHaline circulation* (2014–2017; **project leader**)

Research Council of Norway, *EPOCASA: Enhancing seasonal-to-decadal Prediction Of Climate for the North Atlantic Sector and Arctic* (2014–2017)

SKD strategic project, *PRACTICE: Predictability of Arctic/North Atlantic climate* (2011–2015; **project leader**)

SKD strategic project, *IMMUNITY: Integrated model-data approach for understanding multidecadal natural climate variability* (2011–2015)

Research Council of Norway, *GOCE-MTD: GOCE studies of mean dynamic topography and ocean circulation in the high latitude and Arctic Ocean* (2012–2015)

Completed projects

Norwegian Ministry of Education and Research: *The Nansen legacy* (*Arven etter Nansen*; nansenlegacy.org); national consortium commissioned to develop a nationally coordinated research plan for the marine environment of the Barents Sea (2013–2014; **working group leader**)

Research Council of Norway, Norwegian Centre of Excellence: *the Bjerknes Centre for Climate Research* (2003–2012; **research group leader**)

EC Environment, *THOR: Thermohaline Circulation - at Risk?* (2008–2012; **core theme co-leader**)

Research Council of Norway/IPY, *BIAC: Bipolar Atlantic Thermohaline Circulation* (2007–2011; **work task leader**)

Research Council of Norway, *POCAHONTAS: Polar Climate and Heat Transport* (2007–2010; **project co-leader**)

Research Council of Norway, *ProClim: Polar Ocean Climate Processes* (2003–2006; **work package leader**)

EC Environment, *TRACTOR: Tracer and Circulation in the Nordic Seas Region* (2001–2003)

Norsk Hydro, *Ormen Lange* (2000–2003)

Research Council of Norway, *NOCLIM: Norwegian Ocean and Climate Project* (2001–2002)

OTHER RELEVANT EXPERIENCE

Research coordination, etc.

Member of the BCCR Leader Group (2004–)

Leader of ph.d. evaluation committees (1 in 2010, 3 in 2011; all at GFI)

Member of the Department Counsel at the DoM, UiB (1995, 1997–98)

Responsible for the seminar series in Hydrodynamics at DoM, UiB (1998)

Responsible for the lunch seminars at NERSC (2002–2010)

Research leader programme UiB (course leaders S. Barlebo Rasmussen and A. Syversen; 2015–2016)

International Scientific Steering Group member of *ASOF Arctic-Subarctic Ocean Fluxes* (2015–)

Co-chair *Moana, the Rising Ocean: The Pacific Islands and Global Climate Change*. International symposium UiB in collaboration with the Bergen International Festival (29/5/2015)

Leader of the scientific committee for the session *Arctic climate change – global implications* at Arctic Frontiers 2015 (Tromsø, 18–23/1/2015)

Steering committee member *NAVIS – North Atlantic Virtual InStitute* (NSF; coord. F. Straneo, WHOI, 2014–)

Convenor and coordinator *Observed North Atlantic/Arctic Ocean climate variability and its predictability*, joint ASOF/THOR workshop (Bergen, 8–10/11/2011)

Convenor of the session *The Nordic Seas and the North Atlantic's Subpolar Gyre: Similarities, Differences, and Interconnection*, ASLO/AGU 2008 Ocean Sciences Meeting (Orlando, USA, 2–7/3/2008)

Member of the local organizing committee of the Bjerknes Centenary 2004, *Climate Change in High Latitudes* (Bergen, 1–3/9/2004).

Convenor and coordinator of the Bjerknes workshops *Ventilation, pathways and overflows of the Nordic Seas* (Bergen, 7–8/10/2003), *Overflows and straits of the Nordic Seas: Processes, causalities and climatic links* (Bergen, 22–23/3/2004) and *Buoyancy loss in the Nordic Seas: A driver of the Atlantic Conveyor?* (Bergen, 3–5/5/2006)

Summer schools, etc.

Advanced Statistics Training for Climate Research, ResClim, Bergen, 9/2011

Bifurcation and Pattern Formation in the Ocean and the Atmosphere, St.-Oyen, Italy, arranged by the European Science Foundation, 7/1998.

Wave Modelling Applied to the Design of Offshore and Coastal Structures, WEGEMT School, Institut des Sciences de l'Ingenieur de Toulon et du Var, France, 7/1998.

Turbulence, fundamental aspects and geophysical applications, St.-Oyen, Italy, arranged by the European Science Foundation, 7/1997.

6th National Summer School in Geophysical and Environmental Fluid Dynamics, DAMPT, University of Cambridge, UK, 9/1996.

31st Culham Plasma Physics Summer School, UKAEA, Oxford, UK, 9/1994.

OUTREACH

Selected presentations and lectures (partly in Norwegian)

- A brief history of climate – the northern seas from the Last Glacial Maximum to global warming*, Ocean Outlook meeting, Bergen, 19/2/2015.
- The Nansen legacy*, Bergen City Museum "Monday lecture", 1/12/2014.
- On the role of the northern sea in climate – predictor or predictable?*, Transatlantic Science Week, Toronto, Canada, 27–28/10/2014.
- A brief history of climate – the northern seas from Last Glacial Maximum to global warming*, The Nansen Memorial Lecture 2014, The Norwegian Academy of Science and Letters, 10/10/2014.
- Welcome and introduction to the Bjerknes Centre*, visit of the Minister of Climate and Environment Tine Sundtoft, 19/8/2014.
- The Arctic–Atlantic thermohaline circulation*, Richard Greatbatch 60th birthday workshop, Liverpool, UK, 11/4/2014.
- Some (relatively) simple example of modelling*, lecture at UiB's seminar for high school geo-science teachers, 27/3/2014.
- The Arctic–Atlantic thermohaline circulation*, ASOF meeting, FMI, Helsinki, Finland, 5/11/2013.
- Data analysis – an introduction and overview*, lecture at NORCOWE summer school, Preikestolshytta, 28/8/2013.
- Oceanography*, lecture at UiB's seminar for high school geo-science teachers, 1/10/2012.
- Atlantic origin of Nordic Seas freshwater anomalies*, Joint Conference North Atlantic Climate Variability, Hamburg, Germany, 26/9/2012.
- Quantifying the influence of Atlantic heat on Barents Sea ice variability and retreat*, ICES Annual Science Conference, Bergen, 17/9/2012.
- Predictability of Arctic/North Atlantic climate*, Centre for Climate Dynamics at the Bjerknes Center, official opening, 1/12/2011.
- Northern constraints on the Atlantic thermohaline circulation*, EGU meeting, Vienna, Austria, 4/4/2011.
- On the persistence and possible prediction of the Arctic/Atlantic THC*, WCRP Workshop on Seasonal to Multi-Decadal Predictability of Polar Climate, Bergen, 26/10/2010.
- Klimaforskernes "krystallkule"*, Forskningsdagene, Bergen, 25/9/2010.
- Nordic recipes: constraining the ocean's northern overturning*, lecture at the Advanced Course in Climate Dynamics, Bergen, 9/6/2009.
- On the Nordic Seas' role as a pacemaker in the ocean conveyor*, AGU Ocean Sciences Meeting, Orlando, USA, 5/3/2008.
- G.C. Rieber Climate Institute*, briefing for the French scientific attaché to Norway, Bergen, 25/1/2008.
- Vær og klima fram mot 2100*. Bergen Rotary Club, 28/11/2007.
- Om global oppvarming og ekstremvær*, Norconsult, Bergen, 15/11/2007.
- The Nordic Seas and the Atlantic Conveyor*, Potsdam Institute for Climate Impact Research, Germany, 23/3/2007.
- G.C. Rieber Climate Institute*, briefing for Loyala Hearn, Canadian Minister of Fisheries and Oceans, Bergen, 15/11/2006.
- Is the Greenland Sea a major part of the Atlantic Conveyor?* University of East Anglia, UK, 20/4/2006.

Peer reviews for

Bulletin of the American Meteorological Society, Climate Dynamics, Deep Sea Research, Geophysical Research Letters, The German Federal Ministry of Education and Research (BMBF), Intergovernmental Panel on Climate Change (IPCC), Journal of Climate, Journal of Fluid Mechanics, Journal of Geophysical Research, Journal of Oceanography, Journal of Physical Oceanography, Natural Environment Research Council (NERC, UK), Nature Climate Change, Nature Geoscience, Polar Research, Tellus, The US National Science Foundation (NSF).

Publications, peer review (reprints available at folk.uib.no/tel083/)

1. Årthun, M. and **T. Eldevik**, 2015: On the propagation of ocean heat anomalies toward the Arctic and associated climate predictability. In revision.
2. Onarheim, I.H., **T. Eldevik**, M. Årthun, R.B. Ingvaldsen, and L.H. Smedsrud, 2015: Skillful prediction of Barents Sea ice cover. *Geophys. Res. Lett.*, in press.
3. Mjell, T.L., U.S. Ninnemann, **T. Eldevik**, and H.F. Kleiven, 2015: Holocene multidecadal-to-millennial scale variations in Iceland-Scotland overflow and their relationship to climate. In press, *Paleoceanography*, DOI: 10.1002/2014PA002737.

4. Raj, R.P., L. Chafik, J.E.Ø. Nilsen, **T. Eldevik**, and I. Halo, 2015: The Lofoten Vortex of the Nordic Seas. *Deep Sea Res. I*, **96**, 1–14.
5. **Eldevik, T.**, B. Risebrobakken, A.E. Bjune, et al., 2014: A brief history of climate – the northern seas from Last Glacial Maximum to global warming. *Quat. Sci. Rev.*, **106**, 225–246.
6. Glessmer, M.S., **T. Eldevik**, K. Våge, J.E.Ø. Nilsen, and E. Behrens, 2014: Atlantic origin of observed and modelled freshwater anomalies in the Nordic Seas. *Nature Geoscience*, **7**, 801–805.
7. **Eldevik, T.** and J.E.Ø. Nilsen, 2013: The Arctic–Atlantic thermohaline circulation. *J. Climate*, **26**, 8690–8705.
8. Smedsrud, L.H., I. Esau, R.B. Ingvaldsen, **T. Eldevik**, P.M. Haugan, C. Li, V.S. Lien, A. Olsen, A.M. Omar, O.H. Otterå, B. Risebrobakken, A.B. Sandø, V.A. Semenov, and S.A. Sorokina, 2013: The role of the Barents Sea in the Arctic climate system. *Rev. Geophys.*, **51**, 415–449.
9. Sandø, A.B., J.E.Ø. Nilsen, **T. Eldevik**, and M. Bentsen, 2012: Mechanisms for variable North Atlantic-Nordic Seas exchanges. *J. Geophys. Res.*, **117**, C12006.
10. Langehaug, H.R., P.B. Rhines, **T. Eldevik**, J. Mignot, and K. Lohmann, 2012: Water mass transformation and the North Atlantic Current in three multi-century climate model simulations. In press *J. Geophys. Res.*, **117**, C11001, doi:10.1029/2012JC008021.
11. Årthun, M., **T. Eldevik**, L.H. Smedsrud, Ø. Skagseth, and R. Ingvaldsen, 2012: Quantifying the influence of Atlantic heat on Barents Sea ice variability and retreat. *J. Climate*, **25**, 4736–4743.
12. Langehaug, H.R., I. Medhaug, **T. Eldevik**, and O.H. Otterå, 2012: Arctic/Atlantic exchanges via the Subpolar Gyre. *J. Climate*, **25**, 2421–2439.
13. Medhaug, I., H.R. Langehaug, **T. Eldevik**, T. Furevik, and M. Bentsen, 2012: Mechanisms for decadal scale variability in a simulated Atlantic Meridional Overturning Circulation. *Clim. Dyn.*, **39**, 77–93.
14. Jeansson, E., A. Olsen, **T. Eldevik**, I. Skjelvan, A.M. Omar, S. Lauvset, J.E.Ø. Nilsen, R.G.J. Bellerby, T. Johannessen, and E. Falck, 2011: The Nordic Seas carbon budget: Sources, sinks and uncertainties. *Global Biogeochem. Cycles*, **25**, GB4010, doi:10.1029/2010GB003961.
15. Våge, K., R.S. Pickart, M.A. Spall, H. Valdimarsson, S. Jonsson, D.J. Torres, S. Østerhus, and **T. Eldevik**, 2011: Significant role of the North Icelandic Jet in the formation of Denmark Strait Overflow Water. *Nature Geoscience*, **4**, 727–727.
16. Geyer, F., I. Fer, and **T. Eldevik**, 2009: Dense overflow from an Arctic fjord: mean seasonal cycle, variability and wind influence. *Cont. Shelf Res.*, **29**, 2110–2121.
17. **Eldevik, T.**, J.E.Ø. Nilsen, D. Iovino, K.A. Olsson, A.B. Sandø, and H. Drange, 2009: Observed sources and variability of Nordic seas overflow. *Nature Geoscience*, **2**, 406–410.
18. Oliver, K.I.C., **T. Eldevik**, D.P. Stevens and A. Watson, 2008: A Greenland Sea perspective on the dynamics of post-convective eddies. *J. Phys. Oceanogr.*, **38**, 2755–2771.
19. Thiem, Ø, J. Berntsen, **T. Eldevik**, and G. Alendal, 2006: Gas exploration beyond the shelf break: an oceanographic challenge. *Environ. Modell. Softw.*, **21**, 136–141.
20. Johannessen, J.A., V. Kudryavtsev, D. Akimov, **T. Eldevik**, N. Winther, and B. Chapron, 2005: On radar imaging of current features: 2. Mesoscale eddy and current front detection. *J. Geophys. Res.*, **110**(C7), doi:10.1029/2004JC002802.
21. Olsson, K.A., E. Jeansson, L.G. Anderson, B. Hansen, **T. Eldevik**, R. Kristiansen, M.-J. Messias, T. Johannessen, and A.J. Watson, 2005: Intermediate water from the Greenland Sea in the Faroe Bank Channel: spreading of released sulphur hexafluoride. *Deep Sea Res. I*, **52**, 279–294.
22. Johannessen, O.M., K. Lygre, and **T. Eldevik**, 2005: Convective chimneys and plumes in the northern Greenland Sea. *The Nordic Seas: An integrated perspective*, H. Drange, T.M. Dokken, T. Furevik, R. Gerdes, and W. Berger, Eds., Geophysical Monograph Series, AGU, 251–272.
23. **Eldevik, T.**, F. Straneo, A.B. Sandø, and T. Furevik, 2005: Pathways and export of Greenland Sea Water. *The Nordic Seas: An integrated perspective*, H. Drange, T.M. Dokken, T. Furevik, R. Gerdes, and W. Berger, Eds., Geophysical Monograph Series, AGU, 89–103.
24. **Eldevik, T.**, 2002: On frontal dynamics in two model oceans. *J. Phys. Oceanogr.*, **32**, 2915–2925.
25. **Eldevik, T.** and K.B. Dysthe, 2002: Spiral eddies. *J. Phys. Oceanogr.*, **32**, 851–869.
26. **Eldevik, T.**, 2000: *On spiral eddies in the ocean*. Dr. scient. thesis. Dept. of Mathematics, University of Bergen.

Book chapters and proceedings

1. Johannessen, J.A., V. Kudryavtsev, D. Akimov, **T. Eldevik**, N. Winther, and B. Chapron, 2006: On radar imaging of mesoscale eddies and fronts. *European Operational Oceanography: Present and Future. Proceedings of the Fourth International Conference on EuroGOOS*, H. Dahlin, N. C. Flemming, P. Marchand, and S.E. Pettersson, Eds., EuroGOOS Office and European Commission, Research Directorate-Ge.
2. Johannessen, J.A., L.H. Pettersson, **T. Eldevik**, G. Evensen, N. Winther, and Ø. Breivik, 2006: Coastal Physical and Biochemical Processes. Remote Sensing of the Marine Environment, J. Gower, Ed., *Manual of Remote Sensing*, 6, American Society for Photogrammetry and Remote Sensing, 179–196.
3. **Eldevik, T.** and K.B. Dysthe, 1999: Short frontal waves: Can frontal instabilities generate small scale spiral eddies? *Oceanic Fronts and Related Phenomena*, A. Zatsepin and A. Ostrovskii, Eds., IOC Workshop Reports No. 159, 112–117.
4. **Eldevik, T.** and A.H. Øien, 1997: Sub- to supersonic streaming of ions towards the cathode in a beam generated plasma model, in *Proceedings of the XXIII International Conference on Phenomena in Ionized Gases*, vol. 1., M.C. Bordage and A. Gleizes, Eds.

Reports, etc.

1. **Eldevik, T.**, M. Reigstad, E. Falck, S. Gerland, S. Jentoft, G. Johnsen, U. Lindstrøm, T.L. Rasmussen, L.P. Røed, og P.F. Wassmann, 2014: *Nansen's legacy*. Research plan for the central and northern Barents Sea. UiT The Arctic University of Norway. 44 pp.
2. **Eldevik, T.**, M. Reigstad, E. Falck, S. Gerland, S. Jentoft, G. Johnsen, U. Lindstrøm, T.L. Rasmussen, L.P. Røed, og P.F. Wassmann, 2014: *Arven etter Nansen*. Forskningsplan for det sentrale og nordlige Barentshavet. UiT Norges arktiske universitet. 48 pp.

3. **Eldevik, T.**, J.E.Ø. Nilsen, D. Iovino, K.A. Olsson, and A.B. Sandø, 2007: The Greenland Sea does not control the overflows feeding the Atlantic conveyor. *On the Nordic Seas role in the Atlantic Meridional Overturning Circulation*, D. Iovino, Ph.D. Thesis, Geophysical Institute, University of Bergen, Bergen, Norway.
4. Iovino, D. and **T. Eldevik**, 2007: Fundamental aspects of the thermohaline gyre circulation in an idealized North Atlantic Ocean. *On the Nordic Seas role in the Atlantic Meridional Overturning Circulation*, D. Iovino, Ph.D. Thesis, Geophysical Institute, University of Bergen, Bergen, Norway.
5. Johannessen, T., L.G. Anderson, R. Bellerby, M. Danielsen, H. Drange, J. O'Dwyer, **T. Eldevik**, E. Jeansson, S. Jutterstrom, Y. Kasajima, C. Kivimae, J. Larsen, M.J. Messias, G. Nondal, O.A. Nøst, S. Olafsdottir, J. Olafsson, K.I.C. Oliver, A. Olsen, K.A. Olsson, A. Omar, V. Opheim, I. Skjelvan, and A.J. Watson, 2004: TRACTOR Tracer and circulation in the Nordic Seas region. Final Science Report. *Tech. Rep.* 15, Bjerknes Centre for Climate Research.
6. **Eldevik, T.** and H. Drange, 2002: Resolved and parameterized convective eddies in the Greenland Sea. NOClim, Norwegian Ocean Climate Project, *General Technical Report*, 3, Department of Geophysics, University of Bergen, Bergen, Norway.
7. **Eldevik, T.**, 2001: Convective eddies in the Greenland Sea. NOClim, Norwegian Ocean Climate Project, *General Technical Report*, 2, Department of Geophysics, University of Bergen, Bergen, Norway.
8. **Eldevik, T.** and H. Drange, 2001: Process and basin-scale simulations of the deep water ventilation in the open sea, in NOClim, Norwegian Ocean Climate Project, *General Technical Report*, 1, Dept. of Geophys., Univ. of Bergen, Bergen, Norway.
9. **Eldevik, T.**, I.K. Eliassen, J. Berntsen, and G.K. Furnes, 2001: On the influence of the thermohaline circulation at Ormen Lange. Project report. Department of Mathematics, University of Bergen, and Norsk Hydro.
10. Thiem, Ø., **T. Eldevik**, and J. Berntsen, 2001: Combined effects of thermohaline and atmospheric forcing on the currents at Ormen Lange. *Report no.* 165, Department of Applied Mathematics, University of Bergen, Norway.
11. Eliassen, I.K., **T. Eldevik**, J. Berntsen, and G.K. Furnes, 2000: The current conditions at Ormen Lange. Project report. Department of Mathematics, University of Bergen, and Norsk Hydro.
12. **Eldevik, T.**, 1999: On energy conversion in a sigma coordinate ocean model. *Report no.* 129, Department of Applied Mathematics, University of Bergen, Norway.
13. **Eldevik, T.**, 1995: *Sub- to supersonic streaming of ions towards the cathode in a beam generated plasma model* (in Norwegian). Cand. scient. thesis, DoM, UiB.

Popular science and public debate (in Norwegian)

1. **Eldevik, T.**, 2015: Rekdals udokumenterte tragedie. Debattinnlegg *Bergens Tidende*, 14/2/2015.
2. Årthun, M., I.H. Onarheim, and **T. Eldevik**, 2015: Tror på mer is i Barentshavet denne vinteren. *Kronikk forskning.no*, 25/1/2015.
3. Årthun, M., I.H. Onarheim, and **T. Eldevik**, 2015: Barentshavet – helt på grensen. *Kronikk Nordlys*, 15/1/2015.
4. **Eldevik, T.**, 2014: Hans Borge tar feil. Debattinnlegg *Bergens Tidende*, 2/12/2014.
5. Drange, H., K. Kleiven, and **T. Eldevik**, 2014: Ufunderte klimapåstander. Debattinnlegg *Stavanger Aftenblad*, 28/11/2014.
6. **Eldevik, T.**, Arktis smelter, Golfstrømmen består. *Aftenposten Viten*, 1/10/2014.
7. **Eldevik, T.**, B. Risebrobakken, and A. Bjune, 2014: Tilbake til fremtiden. "Forskning viser at...", *Dagens Næringsliv*, 20/9/2014.
8. **Eldevik, T.**, and M. Reigstad, 2014: Arven etter Nansen. *Kronikk i Bergens Tidende*, 1/4/2014.
9. **Eldevik, T.**, 2012: Universitetsrangeringer sier lite om UiB. Debattinnlegg *På Høyden*, 22/10/2012.
10. **Eldevik, T.**, and M. Årthun, 2012: Nansen fikk rett. "Forskning viser at..." *Dagens Næringsliv*, 25/8/2012.
11. **Eldevik, T.**, 2012: Vi trenger mer naturvitenskaplig klimaforskning. Debattinnlegg *forskning.no*, 6/2/2012.
12. **Eldevik, T.**, 2011: Forunderlige klimamyter. Debattinnlegg *forskning.no*, 30/6/2011.
13. **Eldevik, T.**, 2011: Smi mens reaktoren er varm. Debattinnlegg *Bergens Tidende*, 17/3/2011.
14. Drange, H., E. Jansen, and **T. Eldevik**, 2010: Klima. Debattinnlegg i *Bergens Tidende*, 12/11/2010.
15. Drange, H., **T. Eldevik**, T. Furevik, and E. Jansen, 2010: Klimaskepsis på tynn is. Debattinnlegg *På Høyden*, 25/5/2010.
16. Drange, H., **T. Eldevik**, T. Furevik, and E. Jansen, 2010: Nok eit svar til Kvalheim og Sletten. Debattinnlegg *På Høyden*, 11/5/2010.
17. Drange, H., **T. Eldevik**, T. Furevik, and E. Jansen, 2010: Økt konsentrasjon av CO2 gir varmere klode. Debattinnlegg *På Høyden*, 12/4/2010.
18. Lie, Ø, and **T. Eldevik**, 2009: Klima i de lange linjers perspektiv. *Kronikk i forskning.no*, 18/6/2009.
19. **Eldevik, T.**, 2009: Havstrømmene kan varsle klimaendringer, *Verdt å vite*, NRK P2, 7/5/2009.
20. **Eldevik, T.**, 2008: Kampen mot kunnskap. Debattinnlegg i *Dagbladet*, 9/4/2008.
21. **Eldevik, T.**, 2008: Utrolig klimakompetanse. Debattinnlegg i *Aftenposten*, 1/4/2008.
22. **Eldevik, T.**, 2007: Beklagelse - dårlig presisjon i klimadebatten. Debattinnlegg i *Bergens Tidende*, 9/10/2007.
23. **Eldevik, T.**, 2007: Dårlig kjemi i klimadebatten. Debattinnlegg i *Bergens Tidende*, 4/10/2007.
24. **Eldevik, T.**, 2007: Golfstrømmen og vårt milde klima. Faktaark fra Bjerknessenteret, september 2007.
25. **Eldevik, T.**, 2006: Tar Golfstrømmen pause? Debattinnlegg i *Bergens Tidende*, 5/11/2006.
26. **Eldevik, T.**, 2006: Golfstrømmen tok ikke pause. Debattinnlegg i *Aftenposten*, 2/11/2006.
27. **Eldevik, T.**, 2006: En ny istid truer? *Kronikk i Dagbladet*, 13/1/2006.
28. **Eldevik, T.**, 2005: Det må være lov... Debattinnlegg i *Bergens Tidende*, 25/2/2005.
29. **Eldevik, T.**, 2005: Klimatiske veivalg i Norskehavet, *Cicerone*, 3, 22-24.
30. Johannessen, T., **T. Eldevik**, K.A. Olsson, and S. Sætre Hjøllo, 2004: Sporstoff avslører Grønlandshavets hemmeligheter. *Cicerone*, 3, 21-24.
31. **Eldevik, T.**, 2004: Klimaet og "The Day After Tomorrow". *Kronikk i Bergens Tidende*, 2/9/2004.
32. **Eldevik, T.**, Ø. Skagseth, and H. Drange, 2003: Viktige klimaprosesser i De nordiske hav. *Cicerone*, 6, 29-31.
33. **Eldevik, T.**, H. Drange, and S. Sætre Hjøllo, 2002: Dypvannsdannelse i ny form, *Cicerone*, 3, 20-22.