

## CV for Jens Hesselbjerg Christensen



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### Present affiliation:

Danish Climate Centre, Danish Meteorological Institute  
Lyngbyvej 100, DK-2100 Copenhagen Ø, Denmark  
Ph.: +45 3915 7428  
Fax: +45 3915 7460  
E-mail: [jhc@dmi.dk](mailto:jhc@dmi.dk)

### Personal information:

Born: 13. September 1958, Copenhagen, Denmark  
Family status: Married to Conni 17. April 1982  
Children: Nanna, born 6. September 1985  
Monica, born 25. June 1988

### Professional career:

June 2014	Adjunct Professor in climate physics at the Niels Bohr Institute, University of Copenhagen
Nov 2009 – Oct 2014	Affiliated to Greenlandic Climate Research Centre; Nuuk, Greenland
Oct 2009 – Present	Director, Centre for Regional change in the Earth System (CRES)
Aug 2006 – Present	Scientific Head (Forskningsleder), Danish Climate Centre; the Danish Meteorological Institute, Copenhagen
Jan 2006 – Jul 2006	Acting Head of Programme (fungerende Forskningsleder), Danish Climate Centre; the Danish Meteorological Institute, Copenhagen
Feb 1997 – Dec 2005	Senior Advisor at the Danish Climate Centre; the Danish Meteorological Institute, Copenhagen
Jan. 1995 – Jan. 1997	Senior scientist at the Danish Meteorological Institute, Copenhagen.
Feb 1992 – Aug 1992	Visiting scientist at Meteo France, Toulouse
May 1991 – Jun 1991	Visiting scientist at Meteo France, Paris
Aug 1990 – Dec 1994	Research associate at the Danish Meteorological Institute, Copenhagen
Jan 1987 – Jul 1990	Research scholarship at the Niels Bohr Institute, Copenhagen. (Externally financed by the Carlsberg Foundation). (Ph.D. Dissertation, 1990).
Nov 1986 – Dec 1986	Research scholarship at the Niels Bohr Institute, Copenhagen. (Externally financed by the SARC Foundation).
Jan 1986 – Jul 1986	Carlsberg Foundation Scholarship in connection with Master's Thesis.

**Education:**

PhD, 1990, in Astrophysics from the Niels Bohr Institute, University of Copenhagen. Dissertation title: "Large Scale Deviations from the Hubble Flow". PhD Professor: Bernhard Jones.

Master degree, 1986 in Physics and Mathematics at the Niels Bohr Institute, University of Copenhagen. Major in Astrophysics; thesis project in Cosmology.

**Language:**

	Reading	Speaking	Writing
Danish	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
German	Good	Fair	Rudimentary
French	Fair	Fair	Rudimentary
Norwegian	Excellent	Good	Fair
Swedish	Excellent	Good	Fair

**National and international project (PI) and other grants:**

- Modelling European Regional Climate: Understanding and Reducing Errors (MERCURE). Coordinator: Dr. Richard Jones, the Hadley Centre, Bracknell, UK, Period: 1997-2000. EU contract no. ENV4-CT97-0485. **(Grant: EU 220.000)**
- Tundra Degradation in the Russian Arctic (TUNDRA). Coordinator: Dr. Peter Kuhry, Arctic Centre, Rovaniemi, Finland, Period: 1998-2000. EU contract no. ENV4-CT97-0522. **(Grant: EU 120.000)**
- Project to Intercompare Regional Climate Simulations (PIRCS). Coordinators: Dr. William J. Gutowski, Jr., P. Eugene S. Takle, and Dr. Raymond W. Arritt, Iowa State University, USA, Period: 1995 – 2008(?) **(No grant)**
- Regional Earth System Modelling Network for the Arctic (RESMoNA). Coordinator Dr. J.H. Christensen, Danish Climate Centre, Period 2001-2003. Nordic Council of Ministers NARP. **(Grant: EU 54.000)**
- Application of seasonal climate forecasts for improved management strategies for crops in Western Africa, Coordinator Dr. J.H. Christensen, Danish Climate Centre, Period 2001-2003. Rådet for Ulandsforskning (RUF), Denmark. **(Grant: EU 73.000)**
- Prediction of Regional scenarios and Uncertainties for Defining European Climate change risks and Effects – PRUDENCE, Coordinator Dr. J.H. Christensen, Danish Climate Centre Period 2001-2004. EU contract no. EVK2-CT2001-00132. **(Grant: EU 3.426.000)**
- Consequences of weather and climate changes for marine and freshwater ecosystems - Conceptual and operational forecasting of the aquatic environment (CONWOY). Coordinator Prof. M. Søndergård (FBL/KU), Period 2002-2006. Danish Research Council. **(Grant: EU 300.000)**
- Global implications of Arctic climate processes and feedbacks (GLIMPSE), Coordinator Prof. Klaus Dethloff, Alfred Wegener Institute for Polar and Marine Research, Potsdam, Germany, Period 2002 – 2005. EU contract no. EVK2-CT-2002-00164 **(Grant: EU 180.000)**
- Climate and Energy, Coordinator Árni Snorrason Iceland, Nordic Energy Research. Period 2003-2006. **(Grant: EU 25.000)**
- Numerical Methods in Meteorology - A Symposium in Honour of Bennert Machenhauer, Organiser J.H. Christensen, 2004. Danish Research Council. **(Grant: EU 10.000)**
- ENSEMBLES IP, Coordinator Dave Griggs, Hadley Centre, UK. RT3 Sub-coordinator Dr. J.H. Christensen, DMI. Period 2004 – 2009. EU contract no. GOCE-CT-2003-505539. **(Grant: EU 604.000)**
- Regional Climate Change for Greenland and surrounding seas, Coordinator Dr. J.H. Christensen, Danish Climate Centre, Period 2006. DANCEA; Danish Ministry of the Environment **(Grant: EU 128.000)**
- Recent and future permafrost variability, retreat and degradation in Greenland and Alaska: An integrated approach, Coordinator Prof. Vladimir Romanovsky, University of Alaska, Fairbanks. Period 2006 – 2010. National Science Foundation **(Grant: EU 50.000)**
- WATer and global CHange (WATCH) IP, Coordinator Richard Harding, CEH Wallingford, UK. Period 2007 - 2011. EU contract no. GOCE-CT-2006-036946. **(Grant EU 560.415)**
- Climate and Energy Systems, Coordinator Árni Snorrason Iceland, Nordic Energy Research. Period 2007 – 2010. **(Grant: EU 73.000)**

- The freshwater budget of the Nordic Seas (FreshNor). Coordinator Dr. J.H. Christensen, Danish Climate Centre, Period 2007-2009. Nordic Council of Ministers – NordForsk (**Grant: EU 135.000**)
- HYdrological Modelling for Assessing Climate Change Impacts at differeNT Scales (HYACINTS), Coordinator Jens Christian Refsgaard, GEUS, Period 2008-2012; Det Strategiske Forskningsråds Programkomite for Energi og Miljø - Minor strategic research initiative. (**Grant: EU 366.000**)
- Climate screening in Ghana and Zambia, Coordinator Kirsten Halsnæs, UNEP Centre Risø; DANIDA. (**Grant: EU 23.000**)
- Corporation's adaption to climate change and their need for geo spatial information and risk scenarios, Coordinator Birgitte Holt Andersen, COWI, Period 2009-2010; ESA (**Grant: EU 29.400**)
- Effects of climate change on emerging natural toxins in plant and seafood production (EMTOX), Coordinator H.J. (Ine) van der Fels-Klerx, Wageningen UR, Period 2009-2011. EU-SAFEFOODERA contract. (**Grant: EU 28.500**)
- CC-DARE consultancy on climate modelling workshop, Contractor Dr. Todd Ngara, UNEP RISØ, Denmark, Period 2009-2010 (**Grant: EU 72.000**)
- Centre for Regional change in the Earth System (CRES), Coordinator Dr. J.H. Christensen, Danish Climate Centre, Period 2009-2014; Det Strategiske Forskningsråds Programkomite for Energi og Miljø – Strategic Research Centre (**Grant: EU 3.925.000**)
- Højopløselige klimasimuleringer for Grønland og omliggende farvande med en koblet regional klimasystem model (regional klimamodel), Coordinator Søren Rysgaard, Naturinstituttet, Nuuk; Period 2010-2014; Projekt ved Grønlandsk Klimaforskningscenter, Det Strategiske Forskningsråd, (**Grant: EU 338.000 + EU 135.000 + EU 135.000**)
- A changing cryosphere – depicting ecosystem-climate feedbacks as affected by permafrost, snow and ice (DEFROST) Coordinator Torben R. Christensen, Lund University, Nordic Centre of Excellence; Period 2010-2014. Topforskningsinitiativet NordForsk (**Grant: EU 200.000**)
- VALUE - Validating and Integrating Downscaling Methods for Climate Change Research, Coordinator Douglas Maraun, Helmholtz Centre for Ocean Research Kiel, EU-Cost action (**Grant: EU 100.000**)
- Consultancy on Adaptation to a Changing Climate in the Arab Region, A Climate Change Flagship Report by the World Bank in partnership with the League of Arab States; Period 2011-2012; World Bank (**Grant: EU 25.000**)
- Appui à l'Adaptation au Changement Climatique en Afrique de l'Ouest par l'Amélioration de l'Information Climatique; Demandeur AGRHYMET, Niger; Period 2012-2014; Danida (**Grant: EU 3.625.000**)
- EUopSTART for FP7 application LU4MI, Period 2013; Danish Research Council (**Grant: EU 20.000**)
- IMPacts and Risks from high-End Scenarios: Strategies for Innovative solutiONS (IMPRESSIONS), Coordinator Paula Harrison, Oxford University Centre for the Environment (OUCE), Period 2013-2018. EU FP7 (**Grant: EU 283.000**)
- eScience Tools for Investigating Climate Change at High Northern Latitudes (eSTICC) Coordinator Andreas Stohl, Norwegian Institute for Air Research (NILU), Nordic Centre of Excellence; Period 2014-2019. Topforskningsinitiativet NordForsk (**Grant: EU 200.000**)
- Short and long term ablation modelling based on Automatic Weather Station data and Regional Climate Model (SAMAR), Coordinating PI Gudfinna Adalgeirsdottir, University of Iceland; Period 2014-2017. Rannís, The Icelandic Research Fund (**Grant: EU 25.000**)
- Analyse af IPCC delrapport 2 – Effekter, klimatilpasning og sårbarhed; Period 2014. Naturstyrelsen (**Grant: EU 25.000**)
- Quantification of densification and meltwater retention on the Greenland Ice Sheet – closing the surface mass balance gap (RETAIN), Coordinating PI Jason Box, GEUS. Danish Council for Independent Research (**Grant: 120.000**)
- Arctic Sea Ice and Greenland Ice Sheet Sensitivity (Ice2Ice), Corresponding PI Eystein Jansen, Bjerknes Centre, Bergen, Norway. ERC-Synergy Grant; Period 2014-2019 (**Grant: EU 1.868.000**)
- Nordic infrastructure on Earth System Modelling (NordicESM), Coordinating PI Jón Egill Kristjánsson, University of Oslo, Norway. Nordic Council of Ministers – NordForsk; Period 2014-2017 (**Grant: EU 67.000**)

- Analyse af IPCC delrapport 2 – effekter, klimatilpasning og sårbarhed, Danish Nature Agency 2014 (**Grant: EU 27.000**)

## Pending

### Other professional duties and experiences

- Contributing Author to *Summary for Policymakers* in the contribution from WG-I to IPCC's 5<sup>th</sup> Assessment Report (AR5).
- Coordinating Lead Author on the upcoming contribution from WG-I to IPCC's 5<sup>th</sup> Assessment Report (AR5), *Chapter 14: Climate Phenomena and their Relevance for Future Regional Climate Change*.
- Lead Author on the AMAP SWIPA report: *Chapter 3. Climate Model Projections for the Arctic* and *Chapter 8: The Greenland Ice Sheet in a changing climate*.
- Contributing Author to *Summary for Policymakers* in the contribution from WG-I to IPCC's 4<sup>th</sup> Assessment Report (AR4).
- Coordinating Lead Author on the contribution from WG-I to IPCC's 4<sup>th</sup> Assessment Report (AR4), *Chapter 11: Regional Climate Projections*.
- Lead Author on the contribution from WG-I to IPCC's 3rd Assessment Report, *Chapter 10: Regional Climate Information – Evaluation and Projections*.
- Contributing Author on IPCC's 2nd Assessment Report
- Contributing Author on the ACIA report, *Chapter 4: Future Changes of Climate and UV: Modelling and Scenarios for the Arctic Region*
- Member of WCRP Taskforce on Regional Climate Modelling and Downscaling (TFRC) 2006-2009
- Member of the Board of Directors of The Canadian Regional Climate Modeling and Diagnostics Network (CRCMD) 2006 - 2010
- Guest editor on PRUDENCE special issue of *Climatic Change*, 2007, **81 Supl. 1**
- Reviewer for Nature, Nature Geoscience, Nature Climate Change, Nature Communications, Science, GRL, JGR, J.Clim, Clim. Dyn., Tellus, Clim. Change, Clim. Res., Glob.Plan.Change, Polar Res., AMBIO, Theo. Appl. Clim., J. of Glaciology, PNAS, JMS of Japan, Ecology Letters, the Cryosphere.
- A reviewer for the Academi of Finland, the Austrian Research Council, Belgium Research Council, Canadian Environmental Research and NSERC, Czech Science Foundation, Dutch Climate Programme, la Recherche Luxemburg, Norwegian Research Council, German Research (BMBF), The EU Framework Programmes, European Science Foundation, National Science Foundation (USA), South African Research Council, Helmholtz Gemeinschaft (Germany), the World Bank, the Inter-American Development Bank.
- Chairman of the Danish Meteorological Society 2001-2007.
- Member of Scientific Advisory Panel to the “Koordineringsenhed for forskning i klimatilpasning (KFT)” 2007 – 2012
- Associate Editor of JGR-Atmospheres 2010 –
- Member of the Scientific Advisory Committee of the Centre for Climate Dynamics at the Bjerknes Centre in Bergen, Norway 2011 –
- Member of Climate Simulation Laboratory Allocation Panel (CSLAP), UCAR/NCAR, USA 2011 – 2013
- Member of the PAGES (Helmholtz-Zentrum Geestacht) Evaluation Panel 2012
- Member of Climate Change and Atmospheric Research Selection Committee (CCAR), National Science and Engineering Research Council of Canada, 2012 – 2013
- Member of Scientific Advisory Panel for AGRHYMET, 2012 –
- Member of the Scientific Advisory Board for ‘Canadian Network for Regional Climate and Weather processes’, 2013 –
- Member of the NA-CORDEX Science Committee, 2013 –
- Member of JGR-Atmospheres Editor Search Committee 2013
- Member of evaluation panel on ‘Arctic Research Programme’, Academy of Finland, 2014
- Member of the Program Board of the ‘Polar Research programme (POLARPROG)’, the Research Council of Norway 2014 - 2018

## Awards:

Contributing to the award of the Nobel Peace Prize for 2007 to the IPCC

## Web of Science:

Articles with citation data:	77
Times cited:	4017
Average citations:	52.17
H-index:	33

## Peer reviewed publications:

### 2014:

94. Christensen, O.B., S. Yang, F. Boberg, C. Fox Maule, M. Olesen, M. Drews, H. J. D. Sørup and J.H. Christensen, 2014: Scalability of Regional Climate Change in Europe for High-End Scenarios, *Clim. Res.*, [In revision]
93. Mottram, R.H., G. Aðalgeirsdóttir, F. Boberg, P. Lucas-Picher, M. Stendel, O. Bøssing Christensen and J.H. Christensen, 2014: Reconstructing the Surface Mass Balance of the Greenland Ice Sheet with the Regional Climate Model HIRHAM5, 1989-2011. *Ann. Glaciol.* [Submitted]
92. Langen, P.L., R. Mottram, R., J.H. Christensen, F. Boberg, C. Rodehacke, M. Stendel, J. Cappelen, D. van As, A.P. Ahlstrøm, J. Mortensen, S. Rysgaard, D. Petersen, K.H. Svendsen, and G. Aðalgeirsdóttir, 2014: Recent changes in energy and freshwater budgets for the Godthåbsfjord catchment simulated in a 5 km regional climate model. *J. Clim.* [In revision].
91. Refsgaard J.C., T.O. Sonnenborg, J.A. Andersen, J.O. Andreasen, T.K. Bjerre, M.B. Butts, J.H. Christensen, S. Christensen, M. Drews, K.H. Jensen, F. Jørgensen, L.F. Jørgensen, M.A.D. Larsen, D.I Müller-Wohlfeil, M.O. Rasmussen, S.H. Rasmussen, L.P. Seaby, D. Seifert, T.N. Vilhelmsen, and M.N. Kappel, 2014: From climate change to hydrological change – where are the main uncertainties? *Hydrological Sciences Journal* [In submission].
90. Refsgaard, J.C., H. Madsen, V. Andreassian, K. Arnbjerg-Nielsen, T.A. Davidson, M. Drews, D.P. Hamilton, E. Jeppesen, E. Kjellström, J.E. Olesen, T.O. Sonnenborg, D. Trolle, P. Willems, and J.H. Christensen, 2014: A framework for testing the ability of models to project climate change and its impacts, *Climatic Change*, **122**, 271–282, doi: 10.1007/s10584-013-0990-2
89. Takayabu T., H. Kanamaru, K. Dairaku, R. Benestad, H. von Storch and J.H. Christensen, 2014: Ascertaining the quality and utility of downscaling data: A review of remaining issues, *Science of the Total Env.*, [In submission]
88. Butts, M., M. Drews, M.A.D. Larsen, S. Lerer, S.H. Rasmussen, J. Gross, J. Overgaard, J.C. Refsgaard, O.B. Christensen and J.H. Christensen, 2014: Embedding complex hydrology in the regional climate system – dynamic coupling across different modelling domains, *Adv. Water Resour.*, [Accepted] doi:10.1016/j.advwatres.2014.09.004
87. Larsen, M.A.D., J.C. Refsgaard, M. Drews, M. Butts, M.H. Jensen, J.H. Christensen, and O.B. Christensen, 2014: Results from a full coupling of the HIRHAM regional climate model and the MIKE SHE hydrological model for a Danish catchment, *Hydrol. Earth Syst. Sci. Discuss.*, **11**, 3005-3047, doi: 10.5194/hessd-11-3005-2014. [In revision]
86. Aðalgeirsdóttir, G., A. Aschwanden, C. Khroulev, F. Boberg, R. Mottram, P. Lucas-Picher, J.H. Christensen, 2013: Role of model initialization for projections of 21<sup>st</sup> century Greenland Ice Sheet mass loss, *Journal of Glaciology*, **60**, 782-794, doi: 10.3189/2014JoG13J202

### 2013:

85. Christensen, J. H., K. Krishna Kumar, E. Aldrian, S.-I. An, I. F. A. Cavalcanti, M. de Castro, W. Dong, P. Goswami, A. Hall, J. K. Kanyanga, A. Kitoh, J. Kossin, N.-C. Lau, J. Renwick, D. Stephenson, S.-P. Xie and T. Zhou, 2013: Climate Phenomena and their Relevance for Future Regional Climate Change. 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, pp. 1217–1308, doi: 10.1017/CBO9781107415324.028.

84. Tian, T., F. Boberg, O.B. Christensen, J.H. Christensen, J. She, and T. Vihma, 2013: Resolved complex coastlines and land-sea contrasts in a high-resolution regional climate model: a comparative study using prescribed and modelled SSTs, *Tellus A*, **65**, 19951, doi: 10.3402/tellusa.v65i0.19951
83. Butts, M., S.H. Rasmussen, M. Ridler, M.A.D. Larsen, M. Drews, S. Lerer, J. Overgaard, J. Groos, D. Rosbjerg, J.H. Christensen, and J.C. Refsgaard, 2013: Embedding complex hydrology in the climate system – towards fully coupled climate–hydrology models, *Climate and Land Surface Changes in Hydrology*, Proceedings of H01, IAHS-IAPSO-IASPEI Assembly, Gothenburg, Sweden, July 2013 (IAHS Publ. 359, 2013).
82. Kumar, P., A. Wiltshire, C. Mathison, S. Asharaf, B. Ahrens, P. Lucas-Picher, J.H. Christensen, A. Gobiet, F. Saeed, S. Hagemann, and D. Jacob, 2013: Downscaled climate change projections with uncertainty assessment over India using a high resolution multi-model approach, *Science of the Total Env.*, **468-469, Suppl.**, S18-S30, doi: 10.1016/j.scitotenv.2013.01.051
81. Christensen, J.H. and F. Boberg, 2013. Correction to “Temperature Dependent Climate Projection Deficiencies in CMIP5 Models”, *Geophys. Res. Lett.*, doi: 10.1002/grl.50359
80. Kjellström, E., P. Thejll, M. Rummukainen, J.H. Christensen, F. Boberg, O.B. Christensen and C.F. Maule, 2013. Emerging regional climate change signals for Europe under varying large-scale circulation conditions, *Clim. Res.* **56**, 103-119, doi: 10.3354/cr01146
79. Seaby, L.P., J.C. Refsgaard, T.O. Sonnenborg, S. Stisen, J.H. Christensen, and K.H. Jensen, 2013: Assessment of robustness and significance of climate change signals for downscaled climate projections, *Journal of Hydrology*, **486**, 479-493, doi: 10.1016/j.jhydrol.2013.02.015
78. Lucas-Picher, P., F. Boberg, J.H. Christensen and P. Berg, 2013: Dynamical downscaling with reinitializations: a method to generate fine-scale climate data sets suitable for impact studies, *Journal of Hydrometeorology*, **14**, 1159–1174. doi: 10.1175/JHM-D-12-063.1
77. Larsen, M.A.D., P. Thejll, J.H. Christensen, J.C. Refsgaard and K.H. Jensen, 2013: On the role of domain size and resolution in the simulations with the HIRHAM region climate model, *Clim. Dyn.*, **40**, 2903–2918, doi: 10.1007/s00382-012-1513-y.
76. Maule, C.F., P. Thejll, J.H. Christensen, S.H. Svendsen and J. Hannaford, 2013: Improved confidence in regional climate model simulations of precipitation evaluated using drought statistics from the ENSEMBLES models, *Clim. Dyn.*, **40**, 155–173, doi: 10.1007/s00382-012-1355-7.
75. Refsgaard, J.C., K. Arnbjerg-Nielsen, M. Drews, K. Halsnæs, E. Jeppesen, H. Madsen, A. Markandya, J.E. Olesen, J.R. Porter and J.H. Christensen, 2013: The role of uncertainty in climate change adaptation strategies - A Danish water management example, *Mitigation and Adaptation Strategies for Global Change*, **18**, 337-359, doi: 10.1007/s11027-012-9366-6

## 2012:

74. Yang, S. and J.H. Christensen, 2012: Arctic sea ice reduction and European cold winters in CMIP5 climate change experiments, *Geophys. Res. Lett.*, **39**, L20707, doi: 10.1029/2012GL053338.
73. Christensen, J.H. and F. Boberg, 2012: Temperature Dependent Model Deficiencies Affect CMIP5 Multi Model Mean Climate Projections, *Geophys. Res. Lett.*, **39**, L24705, doi: 10.1029/2012GL053650
72. Van der Fels-Klerx, H.J., J.E. Olesen, L-J. Naustvoll, Y. Friocourt, M.J.B. Mengelers, J.H. Christensen, 2012: Climate change impact on natural toxins in plant and marine food production systems, with focus on deoxynivalenol and diarrhetic shellfish toxins, *Food Additives and Contaminants*, **29**, 1647-1659, doi: 10.1080/19440049.2012.714080.
71. Rasmussen, S.H., J.H. Christensen, M. Drews, D.J. Gochis and J.C. Refsgaard, 2012: Spatial scale characteristics of precipitation simulated by regional climate models and the implications for hydrological modelling, *Journal of Hydrometeorology*, **13**, 1817–1835, doi: 10.1175/JHM-D-12-07.1.
70. Stendel, M., J.H. Christensen, S. Marchenko, R. Daanen and V. Romanovsky, 2012: High-Resolution Permafrost Simulations in Western Greenland and an Assessment of Permafrost Degradation Risk. In: Hinkel, K.M. (ed.). 2012. *Proceedings of the Tenth International Conference on Permafrost. Vol. 1: International Contributions*. The Northern Publisher, Salekhard, Russia, 504 pp, 401-406. ISBN: 978-5-905911-01-9.
69. Beier, C., C. Beierkuhnlein, T. Wohlgemuth, J. Penuelas, B. Emmet, C. Körner, H. de Boeck, J.H. Christensen, S. Leuzinger, F. Miglietta, I. Janssen and K. Hansen, 2012: Precipitation manipulation experiments – Challenges and recommendations for the future, *Ecology Letters*, **15**, 899-911, doi: 10.1111/j.1461-0248.2012.01793.

68. Madsen, M.S, C.F.Maule, N. McKellar, J.E. Olesen and J.H. Christensen, 2012: Selection of climate change scenario data for impact modelling, *Food Additives and Contaminants*, **29**, 1647-1659, doi: 10.1080/19440049.2012.712059
67. Rinke, A., H. Matthes, J.H. Christensen, P. Kuhry, V.E. Romanovsky and K. Dethloff, 2012: Arctic RCM simulations of temperature and precipitation derived indices relevant to future frozen ground conditions, *Global and Planetary Change*, **80-81**, 136-148, doi: 10.1016/j.gloplacha.2011.10.011
66. Lucas-Picher, P., M. Wulff-Nielsen , J.H. Christensen, G. Aðalgeirsdóttir , R. Mottram and S. Simonsen, 2012: Very high resolution in regional climate model simulations for Greenland - identifying added value, *J. Geophys. Res.*, **117**, D02108, doi: 10.1029/2011JD016267
65. Masson-Delmotte, V., M.-S. Seidenkrantz, E. Gauthier, V. Jomelli, G. Adalgeirsdottir, J. Arneborg, U. Bhatt, V. Bichet, B. Elberling, F. Gillet-Chaulet, M. van den Broeke, J. H. Christensen, X. Fettweis, H. Gallée, C. Massa, B. Perren, C. Ritz, D. Swingedouw, A. de Vernal, B. Vinther, D.A. Walker, 2012: Greenland climate change: from the past to the future, *Wiley interdisciplinary reviews: Climate Change*, **3**, 427-449, doi: 10.1002/wcc.186.
64. Boberg, F. and J.H. Christensen, 2012: Overestimation of Mediterranean Summer Temperature Projections due to Model Deficiencies, *Nature Climate Change*, **2**, 433-436, doi: 10.1038/NCLIMATE1454

#### 2011:

63. Daanen, R., P. Ingeman-Nielsen, S.S. Marchenko, V.E. Romanovsky, N. Foged, M. Stendel, J.H. Christensen, and K. Hornbech Svensen, 2011: Permafrost degradation risk zone assessment using simulation models, *The Cryosphere*, **5**, 1043-1056, doi: 10.5194/tcd-5-1043-2011.
62. Stahl, K., L.M. Tallaksen, L. Gudmundsson, and J.H. Christensen, 2011: Streamflow data from small basins: a challenging test to high resolution regional climate modelling, *Journal of Hydrometeorology*, **12**, 900-912, doi: 10.1175/2011JHM1356.1
61. Lucas-Picher, P., J.H. Christensen, F. Saed, P. Kumar, A. Wiltshire, D. Jacob and S. Hagemenn, 2011: Can regional climate models represent the Indian monsoon?, *Journal of Hydrometeorology*, **12**, 849-868, doi: 10.1175/2011JHM1327.1
60. Mernild, S.H., G.E. Liston, C.A. Hiemstra, J.H. Christensen, M. Stendel and B. Hasholt, 2011: Surface mass-balance and runoff modeling using HIRHAM4 RCM at Kangerlussuaq (Søndre Strømfjord), West Greenland, 1950-2080, *J. Clim.*, **24**, 609-623 doi: 10.1175/2010JCLI3560.1
59. Van Roosmalen, L., T.O. Sonnenborg, K.H. Jensen and J.H. Christensen, 2011: Comparison of hydrological simulations of climate change using perturbation of observations and distribution based scaling, *Vadose Zone Journal*, **10**, 136-150, doi: 10.2136/vzj2010.0112.

#### 2010:

58. Kjellström, E., F. Boberg, M. Castro, J.H. Christensen, G. Nikulin and E. Sanchez, 2010: Enhancing confidence in climate change projections; evaluation of daily and monthly statistics of temperature and precipitation in the ENSEMBLES regional models, *Clim.Res.*, **44**, 135-150, doi: 10.3354/cr00932
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- Kumar, K.K. and J.H. Christensen, 2014: Projections of Climate Phenomena and their relevance to regional climate change. EGU General Assembly 2014, EGU2014-14093

#### **Contributions to books:**

- IPCC, 2013: *Summary for Policymakers. 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, pp. 1–30, doi:10.1017/CBO9781107415324.004.
- 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, pp. 33–115, doi:10.1017/CBO9781107415324.005.
- Christensen, J. H., K. Krishna Kumar, E. Aldrian, S.-I. An, I. F. A. Cavalcanti, M. de Castro, W. Dong, P. Goswami, A. Hall, J. K. Kanyanga, A. Kitoh, J. Kossin, N.-C. Lau, J. Renwick, D. Stephenson, S.-P. Xie and T. Zhou, 2013: Climate Phenomena and their Relevance for Future Regional Climate Change. 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, pp. 1217–1308, doi: 10.1017/CBO9781107415324.028.
- IPCC, 2013: *Annex I: Atlas of Global and Regional Climate Projections* [van Oldenborgh, G. J., M. Collins, J. M. Arblaster, J. H. Christensen, J. Marotzke, S. Power, M. Rummukainen, T. Zhou (eds.)]. 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, P. M. Midgley (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 1311–1394, doi:10.1017/CBO9781107415324.029.
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- Christensen, J.H., 2011: contributing author to: *Climate Impacts on Energy Systems: Key Issues for Energy Sector Adaptation* (Eds. J. Ebinger and W. Vergara). The International Bank for Reconstruction and Development / The World Bank, Washington DC, USA. ISBN: 978-0-8213-8697-2, doi: 10.1596/978-0-8213-8697-2, 224 pp.
- Christensen, J.H., 2010: Climate Change and Climate Variability in Latin America and the Caribbean, Appendix A in *Reducing Poverty, Protecting Livelihoods, and Building Assets in a Changing Climate* [Ed. D. Verner]. The World Bank, Washington DC, USA
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- Christensen, J.H., M. Rummukainen, G. Lenderink, 2009: Formulation of very high-resolution regional climate model ensembles for Europe, Chapter 5, In: *ENSEMBLES: Climate Change and its Impacts. Summary of Research and Results from the ENSEMBLES Project* [Eds. Van der Linden, P.; Mitchell, J. F. B. Met Office Hadley Centre, FitzRoy Road, Exeter EX1 3PB, UK. 160pp
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- Christensen, J.H., 2008: En varmere og vådere fremtid. In: *Klodens klima : hvordan løser vi udfordringen?* (Eds. L.C. Lilleholt and J.B. Christensen), Venstres Netværk for Miljø, Energi & Klima.

- Stendel, M., J.H. Christensen and D. Petersen, 2008: Arctic climate and climate change with a focus on Greenland. In: *The Dynamics of a High Arctic Ecosystem: Relations to Climate Variability and Change* (Ed. by H. Meltøfte, T.R. Christensen, B. Elberling, M.C. Forchhammer and M. Rasch), Elsevier, New York.
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- Giorgi, F., B. Hewitson, J.H. Christensen, M. Hulme, H. von Storch, P. Whetton, R. Jones, L. Mearns, and C. Fu (2001). Regional Climate Information – Evaluation and Projections. Chapter 10 in: Houghton, J. *et al.* (eds.). *Climate Change 2001: The Scientific Basis*. Intergovernmental Panel on Climate Change, Cambridge University Press.
- Stendel, M., T. Schmidt, and J.H. Christensen, 2001: Simulations of future climate with a coupled atmosphere-ocean general circulation model. In "Climate Change Research - Danish Contributions". Eds. Jørgensen A., Fenger J., and Halsnæs K.; Gads Forlag 2001 ISBN: 87-12-03775-3

#### **Invited presentations (since January 2012):**

27. August 2014: "Cool it: turning up the heat", 3<sup>rd</sup> Nordic International Conference on Climate Change Adaptation, Adapting to Change: From Research to Decision-Making, Copenhagen, Denmark, 25-27 August 2014.
16. June 2014: "Regional Climate and Earth System Models – Added Value Revisited", 3<sup>rd</sup> International Lund Regional-Scale Climate Modelling Workshop: 21<sup>st</sup> Century Challenges in Regional Climate Modelling, Lund, Sweden, 16-19 June 2014.
20. May 2014: "Regnvejr i et klima under forandring: Nye regnmønstre – nye udfordringer", Natur & Miljø 2014, Den store nationale konference for Natur- og Miljøområdet, Odense, Denmark
24. March 2014: "Hvad kan vi forvente af vejret i de kommende år", Byggecentrum arrangement: Håndtering af klimaændringer – Hvordan skal vi i nutidens byggeri og anlæg tage højde for fremtidens klimaændringer?
5. March 2014: "Præsentation af de nyeste data fra IPCC", Årsmøde i Forskernetværk for Klimatilpasning, København, Denmark
14. November 2013: "Bag om FN's klimarapport – er der noget nyt?", Public lecture Katuaq, Nuuk, Greenland.

5. November 2013: *"How bad can it be: Dealing with imperfect models"*, Concept for the European Climate Research Alliance; Side Event at CORDEX 2013, Brussels, Belgium
5. November 2013: *"Regional Climate Science: Findings of IPCC AR5 WGI"*, International Conference on Regional Climate - CORDEX 2013, Brussels, Belgium
30. October 2013: *"De vigtigste nyheder i den nye IPCC-rapport, som Jens Hesselbjerg ser det"*, Efterårsmøde i Dansk Meteorologisk Selskab, København, Denmark.
23. – 24. October 2013: *"Latest findings in climate science & their relevance for regional climate change"*, Climate from the Nordic-Baltic perspective: Science, Policy, Economy 2013 conference, Tallinn, Estonia.
16. October 2013: *"What is the State of the World's Climate and What does it Mean for Latin America?"* OVE seminar at Inter-American Development Bank, Washington, USA
10. October 2013: *"Regional climate change modeling for climate projections"*, Marine Ecological Modelling Centre (MEMC) annual workshop, Danish Meteorological Institute, Copenhagen.
27. September 2013: *"The WG-I contribution to AR5, the Nordic perspective"*, Vad innebär FN:s klimatrapport för politiken och näringslivet? klimatdialog med IPCC forskare, näringslivet och de nordiska miljöministrarna, Stockholm, Sweden
30. May 2013: *"Hvordan ser klimaet ud i fremtiden? Scenarier, effekter og usikkerheder"* Interessegruppen for Gasanalyse og Kemiingeniørgruppen i IDA, temamøde om "Effekten af drivhusgasser og partikler på fremtidens klima", København, Denmark.
9. April 2013: *"Climate scenario for Denmark - Background, data availability and recommendations for future climate impact assessment"* ECOCLIM/CRES workshop, Roskilde University, Denmark
5. April 2013: *"2, 4 eller 6 grader?"* CONCITO Roundtable om klimatilpasning, Musicon, Roskilde, Denmark
18. March 2013: *"Fra klimaforskning til klimapolitik"*, Marie Kruses Skole, Farum, Denmark
13. – 14. March 2013: *"Can we really reduce uncertainty in climate forecasts?"* EQUIP (End-to-end quantification of uncertainty for impacts prediction) workshop on "Strengthening resilience through improved treatment of uncertainty in weather, climate and impacts", Royal Society, London, UK.
10. December 2012: *"Hvad er klimaforandringer?"*, Naturstyrelsen, Copenhagen, Denmark
30. October 2012: *"Interaction between climate change and the cryosphere - GCRC/DEFROST project"*, The Top-level research initiative annual conference, Helsinki, Finland
30. October 2012: *"CRES - a Scientific Platform for Sharing Climate Change Related Knowledge in Denmark"*, Copenhagen, Denmark
27. September 2012: *"How climate change science may influence policy making"*, Nordic Insurance Seminar, Rungsted, Denmark
18. September 2012: *"The role of imperfect models in climate change research"* Third International Conference on Earth System Modelling, Hamburg, Germany
3. September 2012: *"Klimaet i forandring"*, Næstved Byråd, Denmark
15. August 2012: *"The Future Climate of Greenland: A Comprehensive Climate System Model for Greenland"*, Visit by the Danish Minister for Climate, Energy and Buildings in Nuuk, Greenland
16. February 2012: *"Klimaet i forandring"*, UNF Ålborg, Denmark
16. February 2012: *"Klimakonflikten – klimakvalme"*, Støvring Gymnasium, Denmark



## Newspaper major appearances since 2009

- Christensen J.H., 2014, Klimavidenskabens virkelighed kan ikke gradbøjes, Debate Forum in the Danish news magasin 'Altinget', 28. Jan (<http://www.alinget.dk/energi/artikel/vores-tvivlen-kan-goere-jorden-uboelig>)
- Christensen J.H., 2013, Fremtidens klima – vi har et valg, Debate Forum in the Danish news magasin 'Altinget', 2. Dec (<http://www.alinget.dk/energi/artikel/fremtidens-klima-vi-har-et-valg>)
- Aagaard, L.H., 2013, "Klimaspektikeren" møder "Klimaalarmisten", Article in Danish newspaper 'Berlingske', 14 Oct (<http://www.b.dk/nationalt/klimaspektikeren-moeder-klimaalarmisten>)
- Christensen J.H., 2013, Derfor skal vi stole på FN's klimapanel, Debate Forum in the Danish news magasin 'Altinget', 7. Oct (<http://www.alinget.dk/energi/artikel/derfor-skal-vi-stole-paa-fns-klimapanel>)
- Christensen J.H., 2013, En videnskabelig og diplomatisk bedrift, Chronicle in the Danish newspaper 'Jyllands-Posten', 26 Sep (<http://jyllands-posten.dk/protected/opinion/kronik/ECE6008990/en-videnskabelig-og-diplomatisk-bedrift>).
- Nielsen, J.S., 2013: Danske IPCC-forskere: FN klarer ikke klimaudfordringen, Article in Danish newspaper 'Information' 23 Sep (<http://www.information.dk/comment/763134>).
- Mernild, S. H. and J. H. Christensen 2012. Klimaekstremer – ingen overraskelse. Chronicle in the Danish newspaper 'Jyllands-Posten', 17 Oct (<http://jyllands-posten.dk/opinion/kronik/article4875860.ece>).
- Christensen J.H., 2012, Prisen for forskning? Column in the Danish newspaper 'Jyllands-Posten', 5 Feb ([http://www.dmi.dk/dmi/index/klima/forskningslederens\\_klumme/forskningslederens\\_klumme\\_prisen\\_for\\_forskning.htm](http://www.dmi.dk/dmi/index/klima/forskningslederens_klumme/forskningslederens_klumme_prisen_for_forskning.htm)).
- Mernild, S. H., K. P. Nielsen, and J. H. Christensen 2012. Fakta om drivhuseffekten. Chronicle in the Danish newspaper 'Jyllands-Posten', 29 Mar (<http://jp.dk/opinion/kronik/article2736664.ece>).
- Christensen J.H., 2011, Hvad er højest - Rundetaarn eller et tordenskrald? Column in the Danish newspaper 'Jyllands-Posten', 4 Dec ([http://www.dmi.dk/dmi/index/klima/forskningslederens\\_klumme/forskningslederens\\_klumme\\_hvad\\_er\\_hoejest\\_-\\_rundetaarn\\_eller\\_et\\_tordenskrald.htm](http://www.dmi.dk/dmi/index/klima/forskningslederens_klumme/forskningslederens_klumme_hvad_er_hoejest_-_rundetaarn_eller_et_tordenskrald.htm)).
- Mernild, S. H. and J. H. Christensen 2011. Hvor skidt står det til? Chronicle in the Danish newspaper 'Jyllands-Posten', 1 Dec (<http://jp.dk/opinion/kronik/article2623722.ece>).
- Christensen, J.H., 2011, Klimatilpasning - tilpasning til hvad? Column in the Danish newspaper 'Jyllands-Posten', 23 Oct ([http://www.dmi.dk/dmi/index/klima/forskningslederens\\_klumme/forskningslederens\\_klumme\\_klimatilpasning\\_-\\_tilpasning\\_til\\_hvad.htm](http://www.dmi.dk/dmi/index/klima/forskningslederens_klumme/forskningslederens_klumme_klimatilpasning_-_tilpasning_til_hvad.htm))
- Mernild, S. H. and J. H. Christensen 2011. Den danske regntid. Chronicle in the Danish newspaper 'Jyllands-Posten', 15 Oct (<http://jp.dk/opinion/kronik/article2578073.ece>).
- Christensen J.H., 2011, Klimaforandringer og utilregneligt sommervejr. Column in the Danish newspaper 'Jyllands-Posten', 11 Sep ([http://www.dmi.dk/dmi/index/klima/forskningslederens\\_klumme/forskningslederens\\_klumme\\_klimaforandringer\\_og\\_utilregneligt\\_sommervejr.htm](http://www.dmi.dk/dmi/index/klima/forskningslederens_klumme/forskningslederens_klumme_klimaforandringer_og_utilregneligt_sommervejr.htm))
- Mernild, S. H., J. H. Christensen, and M. Stendel 2011. Kulde og global opvarmning. Chronicle in the Danish newspaper 'Jyllands-Posten', 2 Feb (<http://jp.dk/opinion/kronik/article2325599.ece>).
- Mernild, S. H. and J. H. Christensen 2010. Videnskab eller religion? Chronicle in the Danish newspaper 'Jyllands-Posten', 22 Feb (<http://jp.dk/opinion/kronik/article1986786.ece>).
- Andersen, K.B., 2010, Dansk IPCC-forsker: Brug for dansk supplement til IPCC. Interview with J.H. Christensen in Danish weekly journal 'Ingeniøren', 20 Feb (<http://ing.dk/artikel/dansk-ipcc-forsker-brug-dansk-supplement-til-ipcc-106565>)
- Christensen, O.B. and J.H. Christensen, 2009. Mens Jorden ligger under dynen. Chronicle in the Danish newspaper 'Jyllands-Posten', 28 Sep (<http://jyllands-posten.dk/protected/opinion/kronik/ECE4549204/mens-jorden-ligger-under-dynen/>).
- Forster P., R. Somerville, N. Bindoff , J. Christensen, K. Denman , G. Hegerl, B. Hewitson, E. Jansen, P. Jones, P. Lemke, G. Meehl, J. Overpeck, V. Ramaswamy, D. Randall, T. Stocker, K. Trenberth, H.L. Treut, J. Willebrand, R. Wood and F. Zwiers, 2007. Climate with Care. Article in 'New Scientist', issue 2596, 24 Mar (<http://www.newscientist.com/article/mg19325960.900-climate-with-care.html>)

## Master and PhD supervision (extern supervisor) since 1995

Master student supervision: 1995, 1997, 2002, 2005, 2007, 2010, 2011, 2012(3), 2013(3)

PhD supervision:

Sissi Kiilsholm, COGCI, University of Copenhagen 2000-2003

Rikke Magrethe Closter, Conway, University of Copenhagen 2003 - 2007

Lieke van Roosmalen, FIVA, University of Copenhagen 2005 - 2009

Gitte Brandt Hedegaard, COGCI, University of Copenhagen 2007 - 2011

Søren Højmark Rasmussen, HYACINTS, University of Copenhagen 2008 – 2012

Morten Andreas Dahl Larsen, HYACINTS, University of Copenhagen 2009 – 2013

Lauren Paige Seaby, HYACINTS, University of Copenhagen 2009 – 2013

Rasmus Anker Pedersen, CiC, University of Copenhagen 2013 - 2016