

Personal information:

Born: 20.10.1972, Copenhagen, Denmark. Danish citizen.

Married to Birgitte Therkildsen (MA in educational psychology). Danish citizen.

Kids: Frederik (15.12.2008, Danish citizen) and Benedikte (17.03.2012, Danish/US citizen).

Education, work, and awards

Affiliations after Ph.D. degree

Jan 2016	Director, ClimateAdvice .
Jan 2013 to Dec 2015	Research Leader, Climate Change and Glaciology Laboratory, Center for Scientific Studies/Centro De Estudios Cientificos (CECs) , Valdivia, Chile.
Sep 2009 to Jan 2013	Senior Research Scientist (2010–2012) / Directors Post Doc. (2009–2010), Climate, Ocean, and Sea Ice Modeling Group (COSIM), Department of Computational Physics and Methods (CCS-2), Los Alamos National Laboratory (LANL) , New Mexico, United States of America.
Nov 2006 to Sep 2009	Directors Post Doc. (IPY Post Doc.), International Arctic Research Center and Water and Environment Research Center, University of Alaska Fairbanks , Alaska, United States of America.

Scientific educations and degrees

Nov 2006	Ph.D., Department of Geography, University of Copenhagen , Denmark (Research areas of interest: <i>High-latitude climatology, glaciology, and hydrology</i>),
Oct 2001	M.Sc., Department of Geography, University of Copenhagen , Denmark (Research areas of interest: <i>Mid-latitude climatology and hydrology</i>).
Jun 1999	B.S., Department of Geography, University of Copenhagen , Denmark (Research areas of interest: <i>High-latitude climatology and glaciology</i>).

Military education and work

Oct 1993 to Jun 2010	Educated Captain of the Reserve (Artillery Operation Officer: military leader at Battalion level, for up to 550 soldiers), Danish Army. From 1995–2010, contract holder for the <i>Danish Reaction Brigade</i> for global peacemaking, peacekeeping, and humanitarian operations purposes, and served under NATO in Kosovo (2002) and Afghanistan (2006).
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Awards and nominations

2002	Silver Medal, Price Dissertation in Physical Geography, University of Copenhagen, Denmark.
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Memberships in committees and commissions

Since June 2015	Vice President of the International Commission on Snow and Ice Hydrology (ICSIH), under International Association of Hydrological Sciences (IAHS).
Since January 2014	Member of the CLiC (Climate and Cryosphere) Scientific Steering Group, under the World Climate Research Program (http://www.climate-cryosphere.org/about/ssg) at World Meteorological Organization, United Nations.

Since Apr 2010

Danish representative of the International Commission on Snow and Ice Hydrology (ICSIH), under International Association of Hydrological Sciences (IAHS).

Field Research Expeditions

I have considerable experience in cold and high mountain-regions field research, leading and participating in glaciological, snow, and hydrological research expeditions around the Arctic. These projects involve multi-day, multi-week, and multi-month field programs; over the last 6 years I have spent over 15 months in the field.

List of publications

ISI Web of Science: H-index: 18, ISI papers: 54, and sum of ISI citations: 703.

Google Scholar: H-index: 21 and sum of citations: 1,150.

Research Gate Score: 33.93.

Refereed International Scientific Reports

3. IPCC AR5 2013. Sea level Change. S. H. Mernild was a contributing author on Chapter 13, IPCC WGI Fifth Assessment Report, Pp. 1–107.
(http://www.climatechange2013.org/images/uploads/WGIAR5_WGI-12Doc2b_FinalDraft_Chapter13.pdf).
- 2a. Mernild, S. H., J. Cappelen, B. V. Jørgensen, W. H. Lipscomb, J. E. Box, and E. Hanna, 2012. Greenland Coastal Precipitation. In Richter-Menge, J., M.O. Jeffries, and J.E. Overland. The Arctic Report Card, Greenland. NOAA Report 2012.
(http://www.arctic.noaa.gov/report11/greenland_ice_sheet.html).
- 2b. Mernild, S. H., N. T. Knudsen, and E. Hanna 2011. Mittivakkat Gletscher, SE Greenland. In Richter-Menge, J., M.O. Jeffries, and J.E. Overland. The Arctic Report Card, Greenland. NOAA Report 2011 (http://www.arctic.noaa.gov/report11/greenland_ice_sheet.html).
1. Dahl-Jensen, D., S. H. Mernild and K. Steffen 2009. Melting ICE – the Greenland Ice Sheet. In: Melting Snow and Ice: A call for action. A state-of-the-art report on the status of the future scenarios for the melting of ice in affected areas worldwide. The report was presented by Mr. *Al Gore* and Mr. *Jonas G. Støre* at the UN Climate Change Conference in Copenhagen (COP15) in December 2009 (http://www.regjeringen.no/upload/UD/Vedlegg/klimate/melting_ice_report.pdf)

Refereed Scientific Papers

2016:

61. Bing, A., Fedorova, I., Dibike, Y., Karlsson, J. M., Mernild, S. H., Prowse, T., Semenova, O., Stuefer, S., and Woo, M.-K. Arctic terrestrial hydrology: A synthesis of processes, regional effects and research challenges. Accepted *Journal of Geophysical Research*.
60. Yde, J. C., Knudsen, N. T., Steffensen, J. P., Carrivick, J. L., Hasholt, B., Ingeman-Nielsen, T., Kronborg, C., Larsen, N. K., Mernild, S. H., Oerter, H., Roberts, D. H., and Russell, A. J. Spatiotemporal variability of oxygen isotope compositions in three contrasting glacier river catchments in Greenland. *Hydrol. Earth Syst. Sci. Discuss.*, 12, 5841-5893, doi:10.5194/hessd-12-5841-2015.

2015:

59. Holland, D. M., Holland, D. and the MISOMIP team: Galton-Fenzi, B., Parizek, B., Holland, D., Menemenlis, D., Larour, E., Pattyn, F., Durand, G., Kim, H.-C., Joughin, I., Ridley, J., Kusahara, K., Bentsen, M., Dinniman, M., Jourdain, N., Mathiot, P., Timmermann, R., Hallberg, R., Gladstone, R., Walker, R., Mernild, S. H., Goeller, S., Nowicki, S., Price, S., Hattermann, T., Lee, W. S., and Asay-

- Davis, X. On the rocks: The challenges of predicting sea level rise, *Eos*, 96, doi:10.1029/2015EO036667.
58. Mernild, S. H., Beckerman, A. P., Yde, J. C., Hanna, E., Malmros, J. K., Wilson, R., and Zemp, M. 2015. Mass loss and imbalance of glaciers along the Andes to the sub-Antarctic islands. *Global and Planetary Change*, 1–11, 10.1016/j.gloplacha.2015.08.009.
57. Mernild, S. H., Malmros, J. K., Yde, J. C., Knudsen, N. T., Wilson, R., Hanna, E., Fausto, R. S., As, Van D. 2015. Albedo decline on Greenlands Mittivakkat Gletscher. *International Journal of Climatology*, 35, 2294–2307, doi: 10.1002/joc.4128.
56. Mernild, S. H., D. M. Holland, D. Holland, A. Rosing-Asvid, J. C. Yde, G. E. Liston, and K. Steffen (2015). Freshwater flux and spatiotemporal simulated runoff variability into Ilulissat Icefjord, West Greenland, linked to salinity and temperature observations near tidewater glacier margins obtained using instrumented ringed seals. *Journal of Physical Oceanography*, 45(5), 1426–1445, doi: 10.1175/JPO-D-14-0217.1.
55. Moore, G. W. K., Renfrew, L. A., Harden, B. E., and Mernild, S. H. The impact of resolution on the representation of Greenland barrier winds and katabatic flows. *Geophysical Research Letters*, doi: 10.1002/2015GL063550.
54. Mernild, S. H., J. K. Malmros, J. C. Yde, S. de Villiers, R. Wilson, E. Hanna, and N. T. Knudsen 2015. Glacier changes in the circumpolar Arctic and sub-Arctic, mid-1980s to late-2000s/2011. *Geografisk Tidsskrift – Danish Journal of Geography*, 115(1), 39–56, doi:10.1080/00167223.2015.1026917.
53. Mernild, S. H., E. Hanna, J. R. McConnell, M. Sigl, A. P. Beckerman, J. C. Yde, J. Cappelen, and K. Steffen 2015. Greenland precipitation trends in a long-term instrumental climate context (1890–2012): Evaluation of coastal and ice core records. *International Journal of Climatology*, 35, 303–320, doi:10.1002/joc.3986.
- 2014:**
52. Sutherland, D. A., Roth, G. E., Hamilton, G. S., Mernild, S. H., Stearne, L. A., Straneo, F. Quantifying flow regimes in a Greenland glacial fjord using iceberg drifters. *Geophysical Research Letters*, 41, 1–9, doi:10.1002/2014GL062256.
51. Yde, J. C., Riger-Kusk, M., Løland, R., Ruud, H., Mernild, S. H., de Villiers, S., Knudsen, N. T., and Malmros, J. K. 2014. Volume measurements at Mittivakkat Gletscher, Southeast Greenland. *Journal of Glaciology*, 60(224), 1199–1207, doi:10.3189/2014JoG14J047.
50. Mernild, S. H., Liston, G. E., and C. A. Hiemstra. 2014. Northern Hemisphere glaciers and ice caps surface mass balance and contribution to sea-level rise. *Journal of Climate*, 27(15), 6051–6073, doi.org/10.1175/JCLI-D-13-00669.1.
49. Mernild, S. H., E. Hanna, J. C. Yde, M-S, Seidenkrantz, R. Wilson, and N. T. Knudsen. 2014. Atmospheric and oceanic influence on mass-balance trends of northern North Atlantic region land-terminating glaciers. *Geografiska Annaler: Series A, Physical Geography*, 96, 561–577, doi:10.1111/geoa.12053.
48. Mernild, S. H., E. Hanna, J. C. Yde, J. Cappelen, and J. K. Malmros 2014. Coastal Greenland air temperature extremes and trends 1890–2010: Annual and monthly analysis. *International Journal of Climatology*, 34, 1472–1487, doi: 10.1002/joc.3777.
47. Hanna, E., X. Fettweis, S. H. Mernild, J. Cappelen, M. Ribergaard, C. Shuman, K. Steffen, L. Wood, and T. Mote 2014. Atmospheric and oceanic climate forcing of the exceptional Greenland Ice Sheet surface melt in summer 2012. *International Journal of Climatology*, 34, 1022–1037, doi:10.1002/joc.3743.
46. Oltmanns, M., F. Strano, G. W. K. More, and S. H. Mernild 2014. Strong downslope wind events in Ammassalik, SE Greenland. *Journal of Climate*, 27(3), 977–993, doi:10.1175/JCLI-D-13-00067.1.

2013:

45. Hinzman, L. D., C. Deal, D. A. McGuire, S. H. Mernild, I. Polyakov, and J. Walsh 2013. Trajectory of the Arctic as an Integrated System. *Ecological Applications*, 23(8), 1837–1868, doi:10.1890/11-1498.1.
44. Mernild, S. H., W. H. Lipscomb, D. B. Bahr, V. Radić, and M. Zemp 2013. Global glacier retreat: A revised assessment of committed mass losses and sampling uncertainties. *The Cryosphere*, 7, 1565–1577, doi:10.5194/tc-7-1565-2013.
43. Mernild, S. H., N. T. Knudsen, M. J. Hoffman, J. C. Yde, W. L. Lipscomb, E. Hanna, J. K. Malmros, and R. S. Fausto 2013. Volume and Velocity changes at Mittivakkat Gletscher, Southeast Greenland, 1994–2012. *Journal of Glaciology*, 59(216), 660–670, doi:10.3189/2013JoG13J017.
42. Mernild, S. H., M. Pelto, J. K. Malmros, J. C. Yde, N. T. Knudsen, and E. Hanna 2013. Identification of ablation rate, ELA, AAR, and net mass balance using transient snowline variations on two Arctic glaciers. *Journal of Glaciology*, 59(216), 649–659, doi:10.3189/2013JoG12J221.
41. Pedersen, J. B. T., A. Kroon, B. H. Jakobsen, S. H. Mernild, T. J. Andersen, and C. S. Andersen 2013. Fluctuations of sediment accumulation rates in front of an Arctic delta in Greenland. *The Holocene*, 23(6), 860–868, doi:10.1177/0959683612474480.
40. Hanna, E., J. M. Jones, J. Cappelen, S. H. Mernild, L. Wood, K. Steffen, P. Huybrechts 2013. Discerning the influence of North Atlantic atmospheric and oceanic forcing effects on 1900–2010 Greenland summer climate and melt. *International Journal of Climatology*, 33, 862–880, doi: 10.1002/joc.3475.

2012:

39. Hanna, E., S. H. Mernild, J. Cappelen, and K. Steffen 2012. Recent warming in Greenland in a long-term instrumental (1881–2012) climatic context. Part 1: Evaluation of surface air temperature records. *Environmental Research Letters*, 7, 045404, doi:10.1088/1748-9326/7/4/045404.
38. Liston, G. E. and S. H. Mernild 2012. Greenland freshwater runoff. Part I: A runoff routing model for glaciated and non-glaciated landscapes (HydroFlow). *Journal of Climate*, 25(17), 5997–6014.
37. Mernild, S. H. and G. E. Liston 2012. Greenland freshwater runoff. Part II: Distribution and trends, 1960–2010. *Journal of Climate*, 25(17): 6015–6035.
36. Fausto, R. S., S. H. Mernild, B. Hasholt, A. P. Ahlstrøm, and N. T. Knudsen 2012. Modelling suspended sediment concentration and transport for the hydrological years 2004–2006, Mittivakkat Glacier, Southeast Greenland. *Arctic, Antarctic, and Alpine Research*, 44(3), 306–318. doi:10.1657/1938-4246-44.3.
35. Mernild, S. H., J. K. Malmros, J. C. Yde, and N. T. Knudsen 2012. Multi-decadal marine and land-terminating glacier retreat in Ammassalik region, Southeast Greenland. *The Cryosphere*, 6, 625–639, doi:10.5194/tc-6-625-2012.
34. Mernild, S. H., G. E. Liston, and M. van den Broeke 2012. Simulated internal storage build-up, release, and runoff from Greenland Ice Sheet at Kangerlussuaq, West Greenland. *Arctic, Antarctic, and Alpine Research*, 44(1), 83–94, doi:10.1657/1938-4246-44.1.
33. Mernild, S. H., M.-S. Seidenkrantz, P. Chylek, G. E. Liston, and B. Hasholt 2012. Climate-driven fluctuations in freshwater to Sermilik Fjord, East Greenland, during the last 4000 years. *The Holocene*, 22(2), 155–164. doi:10.1177/0959683611431215.

2011:

32. Mernild, S. H., T. Mote, and G. E. Liston 2011. Greenland Ice Sheet surface melt extent and trends, 1960–2010. *Journal of Glaciology*, 57(204), 621–628.

31. Mernild, S. H., N. T. Knudsen, W. H. Lipscomb, J. C. Yde, J. K. Malmros, B. H. Jakobsen, and B. Hasholt 2011. Increasing mass loss from Greenland's Mittivakkat Gletscher. *The Cryosphere*, 5, 341–348, doi:10.5194/tc-5-341-2011.
30. 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. *Journal of Climate*, 24(3): 609–623, doi:10.1175/2010 JCLI3560.1.

2010:

29. Mernild, S. H., I. M. Howat, Y. Ahn, G. E. Liston, K. Steffen, B. H. Jakobsen, B. Hasholt, B. Fog, and D. van As 2010. Freshwater flux to Sermilik Fjord, SE Greenland. *The Cryosphere*, 4, 453–465, doi:10.5194/tc-4-453-2010.
28. McGrath, D., K. Steffen, I. Overeem, S. H. Mernild, B. Hasholt, and M. van den Broeke 2010. Sediment Plumes in Kangerlussuaq, West Greenland, as a proxy for runoff from the Greenland Ice Sheet. *Journal of Glaciology*, 56(199): 813–821.
27. Mernild, S. H., G. E. Liston, K. Steffen, M van den Broeke, and B. Hasholt 2010. Runoff and mass-balance simulations from the Greenland Ice Sheet at Kangerlussuaq (Søndre Strømfjord) in a 30-year perspective, 1979–2008. *The Cryosphere*, 4, 231–242, doi:10.5194/tc-4-231-2010.
26. Mernild, S. H., G. E. Liston, C. A. Hiemstra, and J. H. Christensen 2010. Greenland Ice Sheet surface mass-balance modeling in a 131-year perspective 1950–2080. *Journal of Hydrometeorology*, 11(1), 3–25.
25. Mernild, S. H. and G. E. Liston 2010. The influence of air temperature inversion on snow melt and glacier surface mass-balance simulations, SW Ammassalik Island, SE Greenland. *Journal of Applied Meteorology and Climate*, 49(1), 47–67.
24. Mernild, S. H., G. E. Liston, K. Steffen, and P. Chylek 2010. Meltwater flux and runoff modeling in the ablation area of the Jakobshavn Isbræ, West Greenland. *Journal of Glaciology*, 56(195), 20–32.

2009:

23. Mernild, S. H. and B. Hasholt 2009. Observed runoff, jökulhlaups, and suspended sediment load from the Greenland Ice Sheet at Kangerlussuaq, West Greenland, for 2007 and 2008. *Journal of Glaciology*, 55(193), 855–858.
22. Mernild, S. H., G. E. Liston, C. A. Hiemstra, K. Steffen, E. Hanna and J. H. Christensen 2009. Greenland Ice Sheet surface mass-balance modeling and freshwater flux for 2007, and in a 1995–2007 perspective. *Hydrological Processes*, doi:10.1002/hyp.7354.
21. Mernild, S. H., G. E. Liston, C. A. Hiemstra, and K. Steffen 2009. Record 2007 Greenland Ice Sheet surface melt-extent and runoff. *Eos Trans. AGU*, 90(2), 13–14.

2008:

20. Mernild, S. H., G. E. Liston, C. A. Hiemstra and K. Steffen 2008. Surface Melt Area and Water Balance Modeling on the Greenland Ice Sheet 1995–2005. *Journal of Hydrometeorology*, 9(6): 1191–1211.
19. Mernild, S. H., B. Hasholt, D. L. Kane and A. C. Tidwell 2008. Jökulhlaup Observed at Greenland Ice Sheet. *Eos Trans. AGU*, 99(35), 321–322.
18. Mernild, S. H., G. E. Liston, and B. Hasholt 2008. East Greenland freshwater runoff to the North Atlantic Ocean 1999–2004 and 2071–2100. *Hydrological Processes*, 22, 4571–4586, doi:10.1002/hyp.7061.

17. Mernild, S. H., B. Hasholt and G. E. Liston 2008. Climatic control on river discharge simulations, Zackenberg River Drainage basin, NE Greenland. *Hydrological Processes*, 22, 1932–1948, doi:10.1002/hyp.6777.
16. Mernild, S. H., D. L. Kane, B. U. Hansen, B. H. Jakobsen, B. Hasholt and N. T. Knudsen 2008. Climate, glacier mass balance, and runoff (1993–2005) for the Mittivakkat Glacier catchment, Ammassalik Island, SE Greenland, and in a long term perspective (1898–1993). *Hydrology Research*, 39(4), 239–256.
15. Mernild, S. H., B. U. Hansen, B. H. Jakobsen, and B. Hasholt 2008. Climatic conditions at the Mittivakkat Glacier catchment (1994–2006), Ammassalik Island, SE Greenland, and in a 109 years term perspective (1898–2006). *Geografisk Tidsskrift-Danish Journal of Geography*, 108(1), 51–72.
14. Mernild, S. H., G. E. Liston, D. L. Kane, B. Hasholt, B. and N. T. Knudsen 2008. Spatial snow distribution, runoff, and mass balance modelling for entire Mittivakkat Glacier (1998–2006), Ammassalik Island, SE Greenland. *Geografisk Tidsskrift-Danish Journal of Geography*, 108(1), 121–136.
13. Hasholt, B., and S. H. Mernild 2008. Hydrology, sediment transport, and water resources of Ammassalik Island, SE Greenland. *Geografisk Tidsskrift-Danish Journal of Geography*, 108(1), 73–95.
12. Hasholt, B., S. H. Mernild, C. Sigsgaard, B. Elberling, D. Petersen, B. H. Jakobsen, B. U. Hansen, J. Hinkler and H. Søgaard 2008. Hydrology and Transport of Sediment and Solutes at Zackenberg. In High-Arctic Ecosystem Dynamics in a Changing Climate: Ten years of monitoring and research at Zackenberg Research Station, Northeast Greenland. (eds) Meltofte H., Christensen, T. R., Elberling, B., Forchhammer, M. C. and Rasch, M. Hydrology and Transport of Sediment and Solutes at Zackenberg. *Advances in Ecological Research*, 40, 111–149.
11. Hansen, B. U., C. Sigsgaard, J. Hinkler, S. H. Mernild, D. Petersen, M. Rasch, M. P. Tamstorf, B. Hasholt, L. Rasmussen and J. Cappelen 2008. Present day climate at Zackenberg. In High-Arctic Ecosystem Dynamics in a Changing Climate: Ten years of monitoring and research at Zackenberg Research Station, Northeast Greenland. (eds) Meltofte H., Christensen, T. R., Elberling, B., Forchhammer, M. C. & Rasch, M. Hydrology and Transport of Sediment and Solutes at Zackenberg. *Advances in Ecological Research*, 40, 197–221.

2007 and older:

10. Mernild, S. H., G. E. Liston and B. Hasholt 2007. Snow-distribution and melt modeling for glaciers in Zackenberg River drainage basin, NE Greenland. *Hydrological Processes*, 21, 3249–3263, doi:10.1002/hyp.6500.
9. Mernild, S. H., C. Sigsgaard, M. Rasch, B. Hasholt, B. U. Hansen, M. Stjernholm and D. Petersen 2007. Climate, river discharge and suspended sediment transport in the Zackenberg River Drainage Basin and Young Sund/Tyrolerfjord, Northeast Greenland, 1995–2003. In Rysgaard, S. and Glud, R. N. (Eds.), Carbon cycling in Arctic Marine ecosystems: Case study Young Sound, *Meddr. om Grønland, BioScience*, 58, 24–43.
8. Mernild, S. H., G. E. Liston, B. Hasholt and N. T. Knudsen 2006. Snow distribution and melt modeling for Mittivakkat Glacier, Ammassalik Island, SE Greenland. *Journal of Hydrometeorology*, 7, 808–824.
7. Mernild, S. H. and B. Hasholt 2006. Climatic control on river discharge simulations, Mittivakkat Glacier catchment, Ammassalik Island, SE Greenland. *Nordic Hydrology*, 37(4–5), 327–346.
6. Hasholt, B., N. Bobrovitskaya, J. Bogen, J. McNamara, S. H. Mernild, D. Milbourn and D. E. Walling 2006. Sediment transport to the Arctic Ocean and adjoining cold oceans. *Nordic Hydrology*, 37(4–5), 413–432.

5. Mernild, S. H., B. Hasholt and G. E. Liston 2006. Water flow through Mittivakkat Glacier, Ammassalik Island, SE Greenland. *Geografisk Tidsskrift-Danish Journal of Geography*, 106(1), 25–43.
4. Mernild, S. H. 2006. The internal drainage system of the lower Mittivakkat Glacier, Ammassalik Island, SE Greenland. *Geografisk Tidsskrift-Danish Journal of Geography*, 106(1), 13–24.
3. Hasholt, B. and S. H. Mernild 2006. Glacial erosion and sediment transport in the Mittivakkat Glacier catchment, Ammassalik island, southeast Greenland, 2005. *IAHS Publ.*, 306, 45–55.
2. Hasholt, B., and S. H. Mernild 2004. Estimation of water balance in and around the Mittivakkat Glacier basin, Ammassalik Island, southeast Greenland, in: *Northern Research Basins Water Balance*, Edited by D. L. Kane & D. Yang. - Wallingford, UK. *IAHS*, 290, 129–142.
1. Mernild, S. H. and B. Hasholt 2003. A test of classification and regionalisation of Danish watercourses. *Geografisk Tidsskrift-Danish Journal of Geography*, 103(2), 13–25.

Refereed Scientific Notes

2004 and onward:

7. Mernild, S. H., J. C. Yde, J. K. Malmros, and N. T. Knudsen 2013. Circum-Arctic land-terminating glacier volume changes since the mid-1980s. *Geografisk Tidsskrift-Danish Journal of Geography*, 113(1), 65–70, doi.org/10.1080/00167223.2013.799311.
6. Mernild, S. H. and G. E. Liston 2012. Surface melt extent for the Greenland Ice Sheet 2011. *Geografisk Tidsskrift-Danish Journal of Geography*, 112(1), 75–79.
5. Mernild, S. H., B. Hasholt, B. U. Hansen and B. H. Jakobsen 2008. Meteorological observations 2006 at the Sermilik Station, Ammassalik Island, Southeast Greenland. *Geografisk Tidsskrift-Danish Journal of Geography*, 108(1), 153–161.
4. Mernild, S. H., B. Hasholt, B. U. Hansen and B. H. Jakobsen 2007. Meteorological observations 2005 at the Sermilik Station, Ammassalik Island, Southeast Greenland. *Geografisk Tidsskrift-Danish Journal of Geography*, 108(1), 59–67.
3. Mernild, S. H., B. Hasholt and B. U. Hansen 2006. Meteorological observations 2004 at the Sermilik Station, Ammassalik Island, Southeast Greenland. *Geografisk Tidsskrift-Danish Journal of Geography*, 106(2), 131–140.
2. Mernild, S. H., B. Hasholt and B. U. Hansen 2005. Meteorological observations 2003 at the Sermilik Station, Ammassalik Island, Southeast Greenland. *Geografisk Tidsskrift-Danish Journal of Geography*, 105(2), 49–56.
1. Hasholt, B., B. U. Hansen, O. Humlum, and S. H. Mernild 2004. Meteorological stations at the Sermilik Station, southeast Greenland – physical environment and meteorological observations 2002. *Geografisk Tidsskrift-Danish Journal of Geography*, 104(2), 47–58.

Conference Proceedings

2004 and onward:

5. Hasholt, B. and S. H. Mernild 2009. Runoff and Sediment Transport Observations from the Greenland Ice Sheet, Kangerlussuaq, West Greenland. 17th International Northern Research Basins Symposium and Workshop, 1–10.
4. Mernild, S. H., B. Hasholt, B. H. Hansen and N. T. Knudsen 2007. Climate, glacier mass balance, and freshwater runoff 1993–2005, and in a 106 years perspective, Mittivakkat Glacier catchment, Ammassalik Island, SE Greenland. Proceedings, 16th International Northern Research Basins Symposium and Workshop, 90–109.
3. Mernild, S. H. 2007. Freshwater runoff from Eastern Greenland 1997–2005 and 2071–2100. The 7th International Conference on Global Change: Connection to the Arctic (GCCA-7), 19–20 February 2007, Fairbanks, Alaska: 20–25.

CV for Sebastian H. Mernild

2. Mernild, S. H. and B. Hasholt 2005. Climatic control on river discharge simulations from the Mittivakkat Glacier catchment, Ammassalik Island, SE Greenland. Proceedings, 15th International Northern Research Basins Symposium and Workshop, 29 Aug – 2 Sep 2005, 141–164.
1. Balstrøm, T., S. H. Mernild and B. Hasholt 2004. Linear referencing to assist the classification of Danish river systems. Proceedings, 19th European and Scandinavian Conference for ESRI Users, 1–9.

Conference Abstracts

2016:

64. Bakker, P., Abe-Ouchi, A., Bi, D., van den Broeke, M., Hu, A., Lenaerts, J., Beadling, R. L., Marsland, S., Mernild, S. H., Ohgaito, R., Rodehacke, C., Saenko, O., Swingedouw, D., Schmittner, A., Yang, S., and Yin, J. AMOC projections driven by global warming and Greenland Ice Sheet melt. EGU General Assembly 2016. Austria, April 2016.

2015:

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58. S. H. Mernild, Holland, D. M., Holland, D., and Rosing-Asvid. A. Salinity and water temperature observations from the inaccessible waters beneath the dense ice mélange and ice margin in Greenland obtained using instrumented ringed seals. EGU General Assembly 2015. Austria, April 2015.
57. Lindstrom, M., C. T. Kollsgaard, K. B. Lome, K. B., J. C. Yde, M. K. Gillspie, S. de Villers, A. E. Jowett, S. H. Mernild, S. H., and E. Hanna. Estimation of englacial and subglacial drainage system at Mittivakkat Gletscher, Greenland, using dye tracer experiments. EGU General Assembly 2015. Austria, April 2015.
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51. Landrum, L., S. Yeager, J. E. Box, J. Fyke, and S. H. Mernild. Atlantic hindcast sensitivity to historical Greenland freshwater forcing. CESM Land Ice Working Group meeting, Colorado.
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47. J. C. Yde, S. H. Mernild, R. Løland, H. Ruud, M. Riger-Kusk, S. de Villiers, N. T. Knudsen, and J. K. Malmros. Ground penetrating radar (GPR) measurements at Mittivakkat Gletscher, Southeast Greenland. EGU General Assembly 2014. Austria, April/May 2014.
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45. Liston, G. E. and S. H. Mernild 2013. Greenland Freshwater Runoff. Part I: A Runoff Routing Model for Glaciated and Non-glaciated Landscapes (HydroFlow). Northern Research Basin Symposium and Workshop 2013. Alaska, August 2013.
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36. Pelto, M. and S. H. Mernild 2012. Identification of ablation rate and ELA using Transient Snowline variation on two Circumpolar Arctic glaciers. Earth Observation and Cryosphere Science Conference, Frascati (Rome), Italy, November 2012.
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33. Mernild, S. H., N. T. Knudsen, and J. C. Yde 2012. Area and volume changes from Greenland's longest-observed local glacier, Mittivakkat Gletscher, and surrounding glaciers. EGU General Assembly 2012. Austria, April 2012.
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21. Mernild, S. H. and G. E. Liston 2011. Melt and runoff simulations from the Greenland Ice Sheet and glaciers peripheral to the Ice Sheet. EGU General Assembly 2011. Austria, April 2011.
20. Mernild, S. H. and G. E. Liston 2011. Surface melt extent and trends for the Greenland Ice Sheet since 1960. IASC Network on Arctic Glaciology, Colorado, February 2011.
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12. Yde, J. C., N. T. Knudsen, T. G. Bárcena, K. Finster, B. Hasholt and S. H. Mernild 2010. Biogeochemical weathering and solute export in Southeast Greenland. International Polar Year, Oslo Science Conference, June 2010.
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6. Mernild, S. H. 2009. Future Greenland runoff acceleration. Climate Change Congress: Global Risks, Challenges and Decisions. Copenhagen, March 2009.
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Dissertations (monographies)

5. Mernild, S. H. 2015. Water balance from mountain glacier scale to ice sheet scale - With focus on Mittivakkat Gletscher, Southeast Greenland, and the Greenland Ice Sheet. Doctoral thesis. Faculty of Science, University of Copenhagen, pp. 419. Accepted for defense.
4. Mernild, S. H. 2006. Freshwater discharge from the coastal area outside the Greenland Ice Sheet, East Greenland, - With focus on Mittivakkat, Ammassalik Island (Low Arctic) and Zackenberg (High Arctic). PhD dissertation. Department of Geography, Faculty of Science, University of Copenhagen, pp. 394.
3. Mernild, S. H. 2002. Hydrological and morphological classification of watercourses and watersystems - used in water resources management. Pub. Prize dissertation in Geography 2001 at The University of Copenhagen. [Awarded with The University of Copenhagen Silver Medal], pp. 194.
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1. Mernild, S. H., M. K. Sørensen, and A. Spect 1999. Glacier mass balance modeling at Storglaciaren, N. Sweden. Unpub. bachelor thesis, Department of Geography, University of Copenhagen, pp.55.

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Popular Science

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47. Mernild, S. H. 2015. Frygtløse forskningsassistenter. *Aktuel Naturvidenskab*, 2, 52.
46. Mernild, S. H. and E. Hanna. 2015. Glacier Monitoring in Southeast Greenland (GLAMOSEG). *InterAct Science Book*, 70–71.

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36. Mernild, S. H. 2011. Gletscherforholdene 2010, afsmeltning i Grønland og resten af Verden. *GeologiskNyt*, 4, 12–15.
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21. Mernild, S. H. and W. H. Lipscomb 2010. Observing and predicting changes in Greenland's surface mass balance. *LANL ADTSC 2010 Scientific Highlights*, 86–87.

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17. Mernild, S. H. 2009. The Polar Regions are melting – together, we can change the climate. *Aktuel Naturvidenskab*: (Special Issue for UN Climate Summit meeting COP15, Copenhagen), 6, 2.
16. Mernild, S. H. 2009. Vendepunkt for Indlandsisen. *Aktuel Naturvidenskab*, 5, 15–18.
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14. Mernild, S. H. 2009. In many ways, the projected future of the Arctic is today. *Greenland Today*, 3, 64–71.
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