Publications by Michael Tjernström

Ph.D. Thesis:

M. Tjernström (MT), 1988: Numerical modeling of stratiform boundary-layer clouds on the meso-γ-scale. *Acta Universitatis Upsaliensis*, Comprehensive Summaries of Uppsala Dissertations from the Faculty of Science, ISBN 91-554-2147-4, Uppsala, Sweden

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Original papers in peer-reviewed journals:

1987 - 1988

1. MT, 1987: A study of flow over complex terrain using a three dimensional model. A preliminary model evaluation focusing on stratus and fog. *Annales Geophysicae*, **5B**, (5), 469-486.
2. MT, 1988: Numerical simulations of stratiform boundary layer clouds on the meso-γ-scale. Part 1: The influence of terrain height differences. *Boundary-Layer Meteorology*, **44**, 33-72.
3. MT, 1988: Numerical simulations of stratiform boundary layer clouds on the meso-γ-scale. Part 2: The influence of a step change in surface roughness and surface temperature. *Boundary-Layer Meteorology*, **44**, 207 - 230.
4. MT, L. Enger and A. Andrén, 1988: A three-dimensional numerical model for studies of atmospheric flows on the meso-γ-scale. *Journal of Theoretical and Applied Mechanics*, **7**, 167-194.

1989-1991

5. MT, 1989: Some tests with a surface energy balance scheme, including a bulk parameterization for vegetation, in a mesoscale model. *Boundary-Layer Meteorology*, **48**, 33 - 68.
6. Enger, L, and MT, 1991: Estimating the effect on the regional precipitation climate in a semi-arid region caused by an artificial lake using a mesoscale model. *Journal of Applied Meteorology*, **30**, 227-250.
7. MT, and C. A. Friehe, 1991: Analysis of a radome air-motion system on a twin-jet aircraft for boundary layer research. *Journal of Atmospheric and Oceanic Technology*, **8**, 19-40.
8. MT, 1991: Airborne observations of thermal mesoscale circulations in the coastal marine boundary layer. *Journal of Geophysical Research*, **96**, C11, 20499-20520.

1992-1993

9. MT, 1993: Simulated liquid water and visibility in stratiform boundary layer clouds over sloping terrain. *Journal of Applied Meteorology*, **32**, 656-665.
10. MT, 1993: Turbulence length scales in stably stratified free-shear flow analyzed from slant aircraft profiles. *Journal of Applied Meteorology*, **32**, 948-963.
11. MT and A.-S. Smedman, 1993: The vertical turbulence structure of the coastal marine atmospheric boundary layer. J*ournal of Geophysical Research*, **98**, 4809-4826.
12. Smedman, A.-S., MT and U. Högström, 1993: Analysis of the turbulence structure of a marine low level jet. *Boundary-Layer Meteorology*, **66**, 105-126.

1994-1995

13. MT and D. Koračin, 1995: Modeling the impact of stratocumulus on boundary layer structure. *Journal of the Atmospheric Sciences*, **52**, 863-878.
14. MT and P. Samuelsson, 1995: The effect of inertial navigation system time response on airborne turbulence measurements. *Journal of Atmospheric and Oceanic Technology*, **12**, 1196-1213.
15. Smedman, A-S., MT and U. Högström, 1995: The near-neutral marine atmospheric boundary layer with no surface shearing stress - a case study. *Journal of the Atmospheric Sciences*, **51**, 3399-3411.

1996-1997

16. MT and D. P. Rogers, 1996: Turbulence structure in decoupled marine stratocumulus: A case study from the Astex field experiment. *Journal of the Atmospheric Sciences*, **53**, 598-619.
17. MT and B. Grisogono, 1996: Thermal mesoscale circulations on the Baltic coast. Part I: A numerical case study. *Journal of Geophysical Research*, **101(D14**), 18979-18997.
18. Grisogono, B., and MT, 1996: Thermal mesoscale circulations on the Baltic coast: Part II: Perturbation of surface parameters. *Journal of Geophysical Research*, **101**, 18999-19012.

1998-1999

19. Cui, Z., MT and B. Grisogono, 1998: Idealized simulations of coastal flow along the central coast of California. *Journal of Applied Meteorology*, **37**, 1332-1363.
20. Rogers, D., C. Dorman, K. Edwards, I. Brooks, S. Burk, W. Thompson, T. Holt, L. Ström, MT, B. Grisogono, J. Bane, W. Nuss, B. Morely and A. Schanot, 1998: Highlights of Coastal Waves 1996. *Bulletin of the American Meteorological Society*, **79**, 1307-1326.

21. Grisogono, B., L. Ström and MT, 1998: Small-scale variability in the coastal atmospheric boundary layer. Boundary-Layer Meteorology, *Boundary-Layer Meteorology*, **88**, 23 - 46.
22. Frech, M., P. Samuelsson, MT and A. M. Jochum, 1999: Boundary layer budgets over the NOPEX area. *Journal of Hydrology*, **213**, 155-171.
23. MT, 1999: Sensitivity of coastal atmospheric supercritical flow to ambient conditions. *Tellus*, **51**, 880-901.

2000

24. MT and B. Grisogono, 2000: Simulations of supercritical flow around points and capes in the coastal atmosphere. *Journal of the Atmospheric Sciences*, **57**, 108-135.
25. Sundararajan, R., and MT, 2000: Observations and simulations of a non-stationary coastal atmospheric boundary layer. *Quarterly Journal of the Royal Meteorological Society*, **126**, 445-476.
26. Samuelsson, P., and MT, 2000: Introduction to the in-situ airborne meteorological measurements in NOPEX. *Journal of Agricultural and Forest Meteorology*, **98-99**, 181-204.
27. Samuelsson, P., and MT, 2000: Airborne Flux Measurements in NOPEX. Comparison with footprint estimated surface fluxes. *Journal of Agricultural and Forest Meteorology*, **98-99**, 205-225.
28. G. Svensson, MT and D. Koračin, 2000: The sensitivity of a stratocumulus transition: Model simulations of the ASTEX first Lagrangian, *Boundary-Layer Meteorology*, **95**, 57-90, with errata (2001) in *Boundary-Layer Meteorology*, **98**, 173-177.
29. Ström, L., MT and D. P. Rogers, 2000: Observed dynamics of topographically forced flow at Cape Mendocino during Coastal Waves 1996. *Journal of Atmospheric Sciences*, **58**, 953-977.

2001

30. Samuelsson, P., and MT, 2001: Mesoscale flow modification induced by land-lake surface temperature and roughness differences. *Journal of Geophysical Research*, **106**, 12419 - 12435.
31. Söderberg, S., and MT, 2001: Supercritical channel flow in the coastal atmospheric boundary layer: Idealized numerical simulations. *Journal of Geophysical Research*, **106**, 17811 - 17829.

2002

32. Söderberg, S., and MT, 2002: Diurnal cycle of supercritical along-coast flows, *Journal of Atmospheric Sciences*, **59**, 2615-2624.

2003

33. Žagar, M., G. Svensson and MT, 2003: A method for determining the small-scale variability of the surface turbulent momentum flux seaward of the coast. *Journal of Applied Meteorology*, **42**, 291-307.
34. Brooks, I., S. Söderberg and MT, 2003: The turbulence structure of the stable atmospheric boundary layer around a coastal headland: Aircraft observations and modeling results. *Boundary-Layer Meteorology*, **107**, 531-559.
35. MT and A. Rune, 2003: The turbulence structure of stratocumulus during the ASTEX first Lagrangian experiment. *Quarterly Journal of the Royal Meteorological Society*, **129**, 1071 - 1100.

2004

36. Ström, L., and MT, 2004. Variability in the summertime coastal marine atmospheric boundary layer off California, *Quarterly Journal of the Royal Meteorological society*, **130**, 423 – 448.
37. Leck, C., MT, P. Matrai and E. Swietlicki, 2004: Microbes, clouds and climate: Can marine microorganisms influence the melting of the Arctic pack ice? *EOS Transactions*, **85**, 25 – 36.
38. MT, M. Žagar and G. Svensson, 2004: Model simulations of the Arctic atmospheric boundary layer from the SHEBA year. *AMBIO*, **33**, 221 – 227.
39. Rummukainen, M., S. Bergström, G. Persson, J. Rodhe and MT, 2004: The Swedish regional climate modelling programme, SWECLIM. *AMBIO*, **33**, 176 – 182.
40. MT, C. Leck, P. O. G. Persson, M. L. Jensen, S. P. Oncley and A. Targino, 2004: The summertime Arctic atmosphere: Meteorological measurements during the Arctic Ocean Experiment (AOE-2001). *Bulletin of the American Meteorological Society*, **85**, 1305 - 1321.
41. MT, C. Leck, P. O. G. Persson, M. L. Jensen, S. P. Oncley and A. Targino, 2004: Experimental equipment: A supplement to "The summertime Arctic atmosphere: Meteorological measurements during the Arctic Ocean Experiment (AOE-2001)". *Bulletin of the American Meteorological Society*, **85**, 1322 - 1322.

2005

42. MT, M. Žagar, G Svensson, J Cassano, S. Pfeifer, A. Rinke, K. Wyser, K. Dethloff, C. Jones and T. Semmler, 2005: Modeling the Arctic Boundary Layer: An evaluation of six ARCMIP regional-scale models with data from the SHEBA project. *Boundary-Layer Meteorology*, **117**, 337 – 381, DOI 10.1007/s10546-004-7954-z.
43. MT, 2005: The summer Arctic boundary layer during the Arctic Ocean Experiment 2001 (AOE-2001). *Boundary-Layer Meteorology*, **117**, 5 - 36.
44. Žagar, M., G. Svensson and MT, 2005: High spatial and temporal variability of dry deposition in a coastal region. *Environmental Fluid Mechanics*, **5**, 357 - 372.

2006

45. Spokes, L., T. Jickells, K. Weston, B. Gustafsson, M. Johnsson B, Liljebladh, D. Conley, C. Ambelas-Skjødth, J. Brandt, J. Carstensen, T. Christiansen, L. Frohn, G. Geenaert, O. Hertel, B. Jensen, C. Lundsgaard, S. Markager, W. Martinsen B. Møller, B. Pedersen, K. Sauerberg, L. Sørenson, C. Hasager, A. Sempreiva, S. Pryor, L. Søren, MT, G. Svensson, M. Žagar, 2006: MEAD – An Interdisciplinary study of the marine effects of atmospheric deposition in the Kattegat, *Environmental Pollution*, **140**, 453 – 462.
46. Rinke, A., K. Dethloff, J. Cassano, J. H. Christensen, J.A. Curry, J.-E. Haugen, D. Jacob, C.G. Jones, M. Køltzow, A.H. Lynch, S. Pfeifer, M.C. Serreze, M. J. Shaw, MT, K. Wyser, M. Zagar, 2006: Evaluation of an Ensemble of Arctic Regional Climate Models: Spatial Patterns and Height Profiles. *Climate Dynamics*, DOI 10.1007/s00382-005-0095-3.
47. Angevine, W. M., MT and M. Žagar, 2006: Modeling of the coastal boundary layer and pollutant transport in New England. *Journal of Applied Meteorology*, 45, 137 – 154.
48. Heintzenberg, J., C. Leck, W. Birmili, B. Wehner, and MT, 2006: Aerosol number-size distributions during clear and fog periods in the summer high Arctic: 1991, 1996, and 2001. *Tellus*, 58B, 41-50.

2007

49. Prenni, A., J., J. Y. Harrington, MT, P. J. DeMott, A. Avramov, C. N. Long, S. M. Kreidenweis, P. Q. Olsson, J. Verlinde, 2007: Can ice-nucleating aerosols affect Arctic seasonal climate? *Bulletin of the American Meteorological Society*, **88**, 541-550.
50. Graversen, R. G., E, Källén, MT and H. Körnich, 2007: Atmospheric mass-budget inconsistency in the ERA-40 reanalysis, *Quarterly Journal of the Royal Meteorological society*, **133**, 673–680.
51. MT, 2007: Is there a diurnal cycle in Arctic summer cloud-capped boundary layer? *Journal of Atmospheric Sciences*, **64**, 3974–3990.

2008

52. Wyser, K., C. G. Jones, P. Du, E. Girard, U. Willén, J. Cassano, J. H. Christensen, J. A. Curry, K. Dethloff, J.-E. Haugen, D. Jacob, M. Køltzow, R. Laprise, A. Lynch, S. Pfeifer, A. Rinke, M. Serreze, M. J. Shaw, MT and M. Zagar, 2008: An Evaluation of Arctic Cloud and Radiation processes during the SHEBA year: Simulation results from 8 Arctic Regional Climate Models. *Climate Dynamics*, **30**, 203–223, DOI 10.1007/s00382-007-0286-1.
53. Balsley, B. B., G. Svensson and MT, 2008: On the scale-dependence of the gradient Richardson number in the residual layer. *Boundary-Layer Meteorology*, **127**, 57 - 72, DOI 10.1007/s10546-007-9251-0.
54. Graversen, R.G., T. Mauritsen, MT, E. Källén and G. Svensson, 2008: Vertical structure of recent Arctic warming, *Nature*, **541**, doi:10.1038.
55. Overland, J., J. Turner, J. Francis, N. Gillett, G. Marshall, and MT, 2008: The Arctic and Antarctic: Two Faces of Climate Change, *EOS*, **89**, 177-184.
56. MT, J. Sedlar and M. Shupe, 2008: How well do regional climate models reproduce radiation and clouds in the Arctic? An evaluation of ARCMIP simulations. *Journal of Applied Meteorology and Climatology*, **47**, 2405–2422, DOI: 10.1175/2008JAMC1845.1.
57. Graversen, R.G., T. Mauritsen, MT, E. Källén and G. Svensson, 2008: Response to Comments Arising on *Vertical structure of recent Arctic warming*. *Nature*, **455**, doi:10.1038/nature07259.

2009

58. MT, B. B. Balsley, G. Svensson and C. J. Nappo, 2009: The effects of critical layers on residual layer turbulence. *Journal of Atmospheric Sciences*, **66**, 468–480.
59. MT, and R.G. Graversen, 2009: The vertical structure of the lower Arctic troposphere analysed from observations and ERA-40 reanalysis. *Quarterly Journal of the Royal Meteorological Society*, **135**, 431-433, DOI: 10.1002/qj.380.
60. MT and T. Mauritsen, 2009: Mesoscale variability in the summer Arctic boundary layer. *Boundary-layer Meteorology*, **130**, 383–406. DOI 10.1007/s10546-009-9354-x.
61. Birch, C. E., I. M. Brooks, MT, S. F. Milton, P. Earnshaw and S. Söderberg, 2009: The performance of a global and mesoscale model over the central Arctic Ocean during the summer melt season. *Journal of Geophysical Research*, **114**, D13104, doi:10.1029/2008JD010790.
62. Sedlar, J., and MT, 2009: Stratiform cloud - inversion characterization during the Arctic melt season, *Boundary-Layer Meteorology*, **132**, 455-474, DOI:10.1007/s10546-009-9407-1.
63. Paatero, J., P. Vaattovaara, M. Vestenius, O. Meinande, U. Makkonen, R. Kivi, A. Hyvärinen, E. Asmi, MT, C. Leck, 2009: Finnish contribution to the Arctic Summer Cloud Ocean Study (ASCOS) expedition, Arctic Ocean 2008. *Geophysica*, **45**, 119-146.

2010

64. Graversen, R. G., T. Mauritsen, S. Drijfhout, MT, and S. Mårtensson 2010: Warm winds from the Pacific caused extensive Arctic sea-ice melt in summer 2007. *Climate Dynamics*, **36**, 2103-2112, DOI 10.1007/s00382-010-0809-z.
65. Lundén, J., G. Svensson, A. Wisthaler, MT, C. Leck, and A. Hansel, 2010: The vertical distribution of atmospheric DMS in the high Arctic summer, *Tellus B*, **62**, 160–171, DOI: 10.1111/j.1600-0889.2010.00458.x.
66. Bocquet, F., B. B. Balsley, MT, G. Svensson, 2010: Comparing Estimates of Turbulence Based on Near-Surface Measurements in the Nocturnal Stable Boundary Layer. *Boundary-Layer Meteorology*, **138**, 43–60, DOI 10.1007/s10546-010-9542-8.

2011

67. Mauritsen, T., J. Sedlar, MT, C. Leck, M. Martin, M. Shupe, S. Sjogren, B. Sierau, P. O. G. Persson, I. M. Brooks, E. Swietlicki, 2011: An Arctic CCN-limited cloud-aerosol regime, *Atmospheric Chemistry and Physics*, **11**, 165–173, doi:10.5194/acp-11-165-2011.
68. Devasthale, A., MT, K.-G. Karlsson, M.A. Thomas, C. Jones, J. Sedlar, and A. H. Omar, 2011: The vertical distribution of thin features over the Arctic analysed from CALIPSO observations. Part I: Optically thin clouds. *Tellus B*, **63**, 77-85, DOI: 10.1111/j.1600-0889.2010.00516.x.
69. Devasthale, A., MT, and A.H. Omar, 2011: A view of tropospheric thin features over the Arctic from CALIPSO observations. Part II: Aerosols. *Tellus B*, **63**, 86-95, DOI: 10.1111/j.1600-0889.2010.00517.x.
70. Sedlar, J., MT, T. Mauritzen, M. Shupe, I. Brooks, P. Persson, C. Birch, C. Leck, A. Sirevaag, and M. Nicolaus, 2011: A transitioning Arctic surface energy budget: the impacts of solar zenith angle, surface albedo and cloud radiative forcing. *Climate Dynamics*, **37**, 1643–1660, doi:10.1007/s00382-010-0937-5.
71. Norris, S. J., I. M. Brooks, G. de Leeuw, A. Sirevaag, MT and C. Leck, 2011: Measurements of bubble size spectra within leads in Arctic pack ice. *Ocean Science*, **7**, 129–139, 2011, doi:10.5194/os-7-129-2011
72. Held, A., I. M. Brooks, C. Leck and MT, 2011: On the potential contribution of open lead particle emissions to the central Arctic aerosol concentration. *Atmospheric Chemistry and Physics*, **11**, 3093–3105, 2011, doi:10.5194/acp-11-3093-2011.
73. Sirevaag, A., S. de la Rosa, S, I. Fer, M. Nicolaus and MT, 2011: Mixing, heat fluxes and heat content evolution of the Arctic Ocean mixed layer. *Ocean Science*, **7**, 335–349, doi:10.5194/os-7-335-2011
74. Axelsson, P., MT, S. Söderberg and G. Svensson, 2011: An ensemble of Arctic simulations of the AOE-2001 field experiment. *Atmosphere*, **2**, 146-170, doi:10.3390/atmos2020146.
75. Held, A., D. A. Orsini, P. Vaattovaara, MT and C. Leck 2011: Near-surface profiles of aerosol number concentration and temperature over the Arctic Ocean. *Atmospheric Measurements Technology Discussions*, **4**, 1603–1616, 2011, doi:10.5194/amt-4-1603-2011.
76. Devasthale, A., J. Sedlar, and MT, 2011: Characteristics of water-vapour inversions observed over the Arctic by Atmospheric Infrared Sounder (AIRS) and radiosondes**.** *Atmospheric Chemistry and Physics*, **11**, 9813–9823, doi:10.5194/acp-11-9813-2011.
77. Chang, R. Y.-W., C. Leck, M. Graus, M. Müller, J. Paatero, J. F. Burkhart, A. Stohl, L. H. Orr, K. Hayden, S.-M. Li, A. Hansel, MT, W. R. Leaitch, and J. P. D. Abbatt, 2011: Aerosol composition and sources in the Central Arctic Ocean during ASCOS. *Atmospheric Chemistry and Physics*, **11**, 10619–10636, doi:10.5194/acp-11-10619-2011.

2012

78. Sedlar, J., M. D. Shupe and MT, 2012: On the relationship between thermodynamic structure and cloud top, and its climate significance in the Arctic. *Journal of Climate*, **25**, 2374-2393, DOI 10.1007/s00382-010-0937-5.
79. Birch, C. E., I. M. Brooks, P. Earnshaw, C. Leck, A. P. Lock, T. Mauritsen, P. O. G. Persson, S.F. Milton, Sedlar, M. Shupe and MT, 2012: Modelling atmospheric structure, cloud and their response to CCN in the central Arctic: ASCOS case studies., *Atmospheric Chemistry and Physics*, **12**, 3419–3435, doi:10.5194/acp-12-3419-2012.
80. MT, C. E. Birch, I. M. Brooks, M. D. Shupe, P. O. G. Persson, J. Sedlar, T. Mauritsen, C. Leck, J. Paatero, M. Szczodrak and C. R. Wheeler, 2012: Meteorological conditions in the Central Arctic summer during the arctic summer cloud ocean study (ASCOS), *Atmospheric Chemistry and Physics*, **12**, 6863–6889, doi:10.5194/acp-12-6863-2012.
81. Syed, F. S., H. Körnich and MT, 2012: On the fog variability over south Asia, *Climate Dynamics*, **39**, 2993-3005, DOI 10.1007/s00382-012-1414-0.
82. Koenigk, T., L. Brodeau, M. Cainan, R. Döscher, R.G. Graversen, J. Karlsson, G. Svensson, MT, U. Willén, K. Wyser, 2012: Arctic Climate Change in the 21st Century in an Ensemble of AR5 Scenario Projections with EC-Earth, *Climate Dynamics*, **40**, 2719-2743, DOI 10.1007/s00382-012-1505-y.

83. Devasthale, A., MT, M. Cainan, M. A. Thomas, B. H. Kahn and E. J. Fetzer, 2012: Influence of the Arctic Oscillation on the vertical distribution of clouds as observed by the A-Train constellation of satellites, *Atmospheric Chemistry and Physics*, **12**, 10535–10544, doi:10.5194/acp-12-10535-2012.

2013

84. Salih, A. S. M., H. Körnich and MT, 2013: Climate impact of deforestation over South Sudan in a regional climate model. *International Journal of Climatology*, **33**, 2362–2375, DOI: 10.1002/joc.3586.
85. Kapsch, M-L, R.G. Graversen and MT, 2013: Springtime atmospheric transport controls Arctic summer sea ice. *Nature Climate Change*, **3**, 744–748**,** doi: 10.1038/NCLIMATE1884.
86. Holtslag, B, G. Svensson, P. Baas, S. Basu, B. Beare, A. Beljaars, F. Bosveld, J. Cuxart, J. Lindvall, G.-J. Steeneveld, MT and B. van de Wiel, 2013: Stable atmospheric boundary layers and diurnal cycles - Challenges for weather and climate models, *Bulletin of the American Meteorological Society*, **94**, 1691-1706, doi: 10.1175/BAMS-D-11-00187.
87. Shupe, M. D., P. O. G. Persson, I. M. Brooks, MT, J. Sedlar, T. Mauritsen, S. Sjogren, C. Leck, 2013: Cloud and boundary layer interactions over the Arctic sea-ice in late summer, *Atmospheric Chemistry and Physics ,***13**, 9379–9400, doi:10.5194/acp-13-9379-2013.
88. Kupiszewski, P., Leck, C., MT, Sjogren, S., Sedlar, J., Graus, M., Müller, M., Brooks, B., Swietlicki, E., Norris, S., and Hansel, A., 2013: Vertical profiling of aerosol particles and tracer gases over the central Arctic Ocean during summer. *Atmospheric Chemistry and Physics,* **13**, 12405–12431, doi:10.5194/acp-13-12405-2013.
89. Rahnja, R., Gunilla Svensson, MT and A. Semedo, 2013: Global Distribution and Seasonal Variability of Coastal Low Level Jets derived from ERA-Interim Reanalysis, *Tellus A*, **65**, 20412, DOI: 10.3402/tellusa.v65i0.20412.

2014

90. de Boer, G., M. D. Shupe, P. M. Caldwell, S. E. Bauer, P. O. G. Persson, J. S. Boyle, M. Kelley, S. A. Klein, and MT, 2014: Near-surface meteorology during the Arctic Summer Cloud Ocean Study (ASCOS): evaluation of reanalyses and global climate models. *Atmospheric Chemistry and Physics*, **14**, 427–445, doi:10.5194/acp-14-427-2014.
91. Wesslén, C., MT, D. H. Bromwich, L.-S. Bai, G. de Boer and A. Ekman, 2014: The Arctic summer atmosphere: An evaluation of reanalyses using ASCOS data, *Atmospheric Chemistry and Physics*, **14**, 2605–2624, doi:10.5194/acp-14-2605-2014.
92. MT and 43 co-authors, 2014: The Arctic Summer Cloud Ocean Study (ASCOS): Overview and experimental design, *Atmospheric Chemistry and Physics,* 14, 2823–2869, doi:10.5194/acp-14-2823-2014
93. Kapsch, M.-L., R. G. Graversen, T. Economou and MT, 2014: The importance of spring atmospheric conditions for the prediction of Arctic summer sea-ice extent. *Geophysical Research Letters*, **41**, 5288-5296, doi: 10.1002/2014GL060826.
94. Vihma, T., R. Pirazzini, I. A. Renfrew, J. Sedlar, MT, T. Nygård, I. Fer, C. Lüpkes, D. Notz, J. Weiss, D. Marsan, B. Cheng, G. Birnbaum, S. Gerland, D. Chechin, and J. C. Gascard, 2014: Advances in understanding and parameterization of small-scale physical processes in the marine Arctic; A review. *Atmospheric Chemistry and Physics*, **14**, 9403–9450, doi:10.5194/acp-14-9403-2014
95. Sotiropoulou, G., J. Sedlar, MT, M. D. Shupe, I. M. Brooks and P. O. G. Persson, 2014: The thermodynamic structure of summer Arctic stratocumulus and the dynamic coupling to the surface. *Atmospheric Chemistry and Physics*, **14**, 12573–12592, doi: 10.5194/acp-14-12573-2014.

2015

96. Savre, J., A. M. L. Ekman, G. Svensson, MT, 2015: Large-Eddy Simulations of an Arctic mixed-phase stratiform cloud observed during ISDAC: Sensitivity to surface fluxes and large-scale forcings, *Quarterly Journal of the Royal Meteorological Society*, **141**, 1177–1190, doi: 10.1002/qj2425.
97. Rahnja, R., MT, A. Semedo, G. Svensson, 2015: Structure and Variability of the Oman Coastal Low-Level Jet. *Tellus A*, **67**, 25285, http://dx.doi.org/10.3402/tellusa.v67.25285.
98. MT, M. D. Shupe, I. M. Brooks, P. O. G. Persson, J. Prytherch, D. Salisbury, J. Sedlar, P. Achtert, B. J. Brooks, P. E. Johnston, G. Sotiropoulou and D. Wolfe, 2015: Warm-air advection, air mass transformation and fog causes rapid ice melt, *Geophysical Research Letters*, **42**, 5594–5602, doi:10.1002/2015GL064373.
99. Salih, A. S. M., Q. Zhang and MT, 2015: Lagrangian tracing of Sahelian Sudan moisture sources. *Journal of Geophysical Research Atmospheres*, **120**, 6793–6808, doi: 10.1002/2015JD023238.
100. Shupe, M. D., MT, and P. O. G. Persson, 2015: Challenge of Arctic clouds and their implications for surface radiation, [in "State of the Climate in 2014"]. *Bulletin of the American Meteorological Society*, **96** (7), S130–S131.
101. Johansson, E., A. Devasthale, T. L'Ecuyer, A. M. L. Ekman and MT, 2015: The vertical structure of cloud radiative heating over the Indian subcontinent during summer monsoon. *Atmospheric Chemistry and Physics*, **15**, 11557–11570, doi: 10.5194/acp-15-11557-2015.

102. Rahnja, R., MT, Gunilla Svensson and A. Semedo, 2015: Modelling coastal low-level wind-jets: does horizontal resolution matter? *Meteorology and Atmospheric Physics*, **128**, 263–278, DOI 10.1007/s00703-015-0413-1.
103. Achtert, P., I. M. Brooks, B. J. Brooks, P. O. G. Persson, J. Prytherch and MT, 2015: Measurement of wind profiles by a ship-borne Doppler lidar, *Atmospheric Measurement Techniques*, **8**, 4993–5007, doi: 10.5194/amt-8-4993-2015.

2016

104. Vihma, T., J. Screen, MT, B. Newton, X. Zhang, V. Popova, C. Deser, M. Holland, and T. Prowse, 2016: The atmospheric role in the Arctic water cycle: processes, past and future changes, and their impacts, *Journal of Geophysical Research*, 121, 586–620, DOI:10.1002/2015JG003132.
105. Sotiropoulou, G., J. Sedlar, R. Forbes and MT, 2016: Late Summer Arctic clouds in the ECMWF forecast model: an evaluation of cloud parameterization scheme, *Quarterly Journal of the Royal Meteorological Society*, **142**, 387–400, doi: 10.1002/qj.2658.
106. Kapsch, M., R. Graversen, MT, R. Bintanja, 2016: The effect of downwelling longwave radiation on Arctic summer sea ice, *Journal of Climate*, **29**, 1143 – 1159, DOI: 10.1175/JCLI-D-15-0238.1.
107. Salih, A. A. M., F. S. R. Pausata, Q. Zhang and MT, 2016: Sources of Sahelian-Sudan moisture: insights from a moisture-tracing atmospheric model. *Journal of Geophysical Research*, **121**, 7819–7832, doi:10.1002/2015JD024575.
108. Devasthale A., J. Sedlar, B. H. Kahn, MT, E. J. Fetzer, B. Tian, J. Teixeira, T. S. Pagano and the AIRS Science Team, 2016: A decade-long mapping of the Arctic atmosphere: novel insights from NASA's Atmospheric Infrared Sounder (AIRS) instrument, *Bulletin of the American Meteorological Society*, **97**, 2163–2176, doi: 10.1175/BAMS-D-14-00202.1.
109. Spengler, T., I. A. Renfrew, MT, J. Screen, and 14 coauthors, 2016: Workshop Summary: Dynamics of atmosphere-ice-ocean interactions in high latitudes. *Bulletin of the American Meteorological Society*, **97**, ES179–ES182, doi: 10.1175/BAMS-D-15-00302.1.
110. Sotiropoulou, G., MT, J. Sedlar, P. Achtert, B. J. Brooks, I. M. Brooks, P. O. G. Persson, J. Prytherch, D. J. Salisbury, M. D. Shupe, P. E. Johnston, D. Wolfe, 2016: Atmospheric conditions during the Arctic Clouds in Summer Experiment (ACSE): Contrasting open-water and sea-ice surfaces during melt and freeze-up seasons. *Journal of Climate*, **29**, 8721-8744, doi: 10.1175/JCLI-D-16-0211.1.

2017

111. Sedlar, J., and MT, 2017: Clouds, warm air and a climate cooling signal over the summer Arctic. *Geophysical Research Letters*, **44**, 1095–1103, doi:10.1002/2016GL071959.
112. Johansson, E., A. Devasthale, MT, A. M. L. Ekman, and T. L'Ecuyer, 2017: The radiative response of the lower troposphere to moisture intrusions into the Arctic. *Geophysical Research Letters*, **44**, 2527–2536, DOI: 10.1002/2017GL072687.
113. Prytherch, J. I. M. Brooks, P. Crill, B. Thornton, D. Salisbury, D., MT, L. Anderson, M. Geibel and C. Humborg, 2017: Direct determination of the air-sea CO_2 gas transfer velocity in Arctic sea ice regions. *Geophysical Research Letters*, **44**, doi:10.1002/2017GL07359.
114. Loewe, K., A. M. L. Ekman, M. Paukert, J. Sedlar, MT, and C. Hoose, 2017: Modelling micro- and macrophysical contributors to the dissipation of an Arctic mixed-phase cloud during the Arctic Summer Cloud Ocean Study (ASCOS). *Atmospheric Chemistry and Physics*, **17**, 6693-6704, DOI:10.5194/acp-17-6693-2017.
115. Igel, A. L., A. M. L. Ekman, C. Leck, J. Savre, MT, J. Sedlar, 2017: The free troposphere as a potential source of Arctic boundary layer aerosol particles. *Geophysical Research Letters*, **44**, 7053–7060, doi:10.1002/2017GL073808.
116. Brooks, I. M., MT, P. O. G. Persson, M. D. Shupe, R. A. Atkinson, G. Canut, C. E. Birch, T. Mauritsen, J. Sedlar, and B. J. Brooks, 2017: The turbulent structure of the Arctic summer boundary layer during ASCOS. *Journal of Geophysical Research*, **122**, https://doi.org/10.1002/2017JD027234.

2018

117. Salih, A. S. M., MT and Q. Zhang, 2018: Rainfall characterization over Sahelian Sudan from observations and regional climate models. *Atmospheric Research*, Atmospheric Research, **202**, 205–218, doi: 10.1016/j.atmosres.2017.12.001.

Unpublished

118. Georgia Sotiropoulou, MT, Julien Savre, Annica M. L. Ekman, Kerstin Hartung and J. Sedlar, 2018: Warm-air advection and air-mass transformation over melting sea ice in the summer Arctic. *Quarterly Journal of the Royal Meteorological Society*, in revision.
119. Kapsch, M., R. Graversen, MT, 2018: Arctic atmospheric circulation in spring of years with low September sea-ice extent, *Climate Dynamics*, Submitted.

120. Johansson, E., A. Devasthale, A.M.L. Ekman, T. L'Ecuyer, and MT, 2017: How does cloud overlap affect the radiative heating in the tropical upper troposphere lower stratosphere? Geophsyical Research Letters, Submitted.
121. Thornton, B.F., J. Prytherch, K. Andersson, I.M. Brooks, D. Salisbury, MT, P.M. Crill, 2017: Eddy covariance measurements of the CH 14 sea-air flux in the Laptev, East Siberian, and Chukchi seas constrain regional emissions. Manuscript in preparation.
122. MT, P. Achtert, M. D. Shupe, J. Prytherch, J. Sedlar, B. J. Brooks, I. M. Brooks, P. O. G. Persson, G. Sotiropoulou, D. J. Salisbury, 2017: Arctic summer air-mass transformation and the surface energy budget, Manuscript in preparation.
123. Achtert, P., I.M. Brooks, G. Sotiropoulou, E. O'Connor, M.D. Shupe, P.O.G. Persson, B.J. Brooks and MT, 2017: Properties of Arctic liquid and mixed phase clouds from ship-borne Cloudnet observations during ACSE 2014. Manuscript under preparation.
124. Thomas, M.A, A. Devasthale, MT, A. Ekman and S. Eckhardt, 2017: The control of aerosol vertical distribution by temperature inversions in the Arctic in winter and spring. Manuscript under preparation.
125. MT, 2018: The Arctic boundary layer. In *100 years of progress: Boundary-layer meteorology*, Eds. Margaret A. LeMone and Wayne Angevine, American Meteorological Society, Manuscript in preparation.
126. Pithan, F., Chechin, D., T.W. Cronin, A. Ekman, M.D. Shupe, A. Solomon, MT and M. Wendish, 2019: How moisture intrusions and cold-air outbreaks connect the Arctic to lower latitudes. Nature Geoscience, Manuscript under preparation.

Conference contributions:

1. MT, 1986: A study of flow over complex terrain using a three dimensional model. TERRA Cognita, 6, No. 3, pp 364, Proceedings from the "European Geophysical Society General Assembly", Kiel.
2. Enger, L. and MT, 1987: A higher order closure model for studies of the meso-γ-scale. Mesoscale Dynamics and Weather Prediction Workshop, October 12-13, Getå, Sweden.
3. MT, 1988: A numerical study of mesoscale perturbations in stratiform boundary layer cloud fields. 10th International Cloud Physics Conference, August 15-20, 1988, Bad-Homburg, Germany.
4. MT, 1989: On the use of pressure fluctuations on the radome of a Sabreliner aircraft for air motion sensing in boundary layer research - or - what to do when you can't afford your own research aircraft. International Workshop on the Airborne Measurements of Wind, Turbulence and Position, August 26-28, 1989, Oberpfaffenhofen, Germany.
5. MT, 1990: A numerical study of mesoscale perturbations in stratiform boundary layer cloud fields. 9th Symposium on Turbulence and Diffusion, April 30 - May 3, 1990, Roskilde, Denmark.
6. MT, 1990: On the use of pressure fluctuations on the radome of a Sabreliner aircraft for boundary layer research turbulence measurements. 9th Symposium on Turbulence and Diffusion, April 30 - May 3, 1990, Roskilde, Denmark.
7. Enger, L. and MT, 1990: On the use of a mesoscale model to estimate the impact of an artificial lake on the regional precipitation climate. 9th Symposium on Turbulence and Diffusion, April 30 - May 3, 1990, Roskilde, Denmark.
8. MT, 1991: Airborne observations of the inhomogeneous marine boundary layer in a coastal area. 4th Interagency Airborne Geoscience Workshop, January 29- February 1, 1991, La Jolla, USA.
9. MT, 1992.: Mesoskaliga cirkulationer i det kustnära marina gränsskiktet (Mesoscale Circulations in the Marine Boundary Layer, in Swedish)., NMM XVIII (18th Meeting of the Nordic Meteorological Societies), June 15-19, 1992, in Hirtshals, Denmark.
10. MT, 1992.: Ett flygburet mätsystem for gränsskiktsstudier (An Airborne Measurement System for Boundary Layer Studies, in Swedish)., NMM XVIII (18th Meeting of the Nordic Meteorological Societies), June 15-19, 1992, in Hirtshals, Denmark.
11. MT, 1992.: Local mixing in free shear flow analyzed from slant aircraft profiles. 10th symposium on Turbulence and Diffusion", September 29 - October 2, Portland, Oregon, USA.
12. MT, 1992.: Measurements of thermal circulations in the coastal marine boundary layer. 10th Symposium on Turbulence and Diffusion, September 29 - October 2, Portland, Oregon, USA.
13. MT, and A-S. Smedman, 1992: Vertical turbulence structure in the coastal marine atmosphere analyzed from slant aircraft profiles. 10th Symposium on Turbulence and Diffusion, September 29 -October 2, Portland, Oregon, USA.
14. Koračin, D. and MT, 1992: Impact of clouds on boundary layer structure. 10th Symposium on Turbulence and Diffusion, September 29 - October 2, Portland, Oregon, USA.

15. Smedman, A-S, MT and U. Högström, 1992: The presence of 'inactive turbulence' in a marine boundary layer. A case study. 10th Symposium on Turbulence and Diffusion, Sept. 29-Oct. 2, Portland, Oregon, USA.
16. MT and D. Koračin, 1992: The impact of marine stratocumulus on boundary layer structure. 3rd International Workshop on Cloud Modeling, August 10-14, 1992, Toronto, Canada.
17. MT, 1993: In-cloud turbulence analyzed from ASTEX field data. American Geophysical Union annual Fall Meeting, San Francisco, December 5-9, 1993.
18. MT, 1994: Coastal Modeling in Sweden. 2nd Office of Naval Research Coastal Meteorology Workshop La Jolla, February 23-24, 1994.
19. MT, 1994: Turbulence structure of a cloud-capped marine atmospheric boundary layer analyzed from ASTEX field data, 2nd International Conference on Air Sea Interaction and Meteorology and Oceanography of the Coastal Zone, September 21-28, 1994, Lisbon, Portugal.
20. Grisogono, B, and MT, 1994: Numerical Modeling of Thermally Driven Mesoscale Circulation in the Coastal Atmospheric Boundary Layer. 2nd International Conference on Air Sea Interaction and Meteorology and Oceanography of the Coastal Zone", September 21-28, 1994, Lisbon, Portugal.
21. MT, 1994: A numerical investigation of thermal mesoscale circulation at the Baltic coast in Sweden. 3rd Office of Naval Research Coastal Meteorology Workshop, Monterey, December 21-22, 1994.
22. MT and P. Samuelsson, 1994: A method to estimate ensemble average turbulence profiles from slant aircraft profiles. EURASAP workshop on the Use of Aircraft in Atmospheric Research, March 16-18, 1994, Braunschweig, Germany.
23. Samuelsson, P., and MT, 1994: INS time-lag problems in estimating winds from in-situ aircraft measurements, EURASAP workshop on the Use of Aircraft in Atmospheric Research, March 16-18, 1994, Braunschweig, Germany.
24. Samuelsson, P., and MT, 1995: Aircraft flux measurements over the patchy NOPEX landscape. European Geophysical Society 20th General Assembly Hamburg, April 3-7 1996, Annales Geophysicae, Supp II, vol 13, pp C346.
25. MT and B. Grisogono, 1995: Thermally Induced variability on coastally trapped jets - The interaction with sea breeze. 7th Conference on Mountain Meteorology, July 17-21, Breckenridge, Colorado, USA.
26. MT and B. Grisogono, 1995: Numerical simulations of thermally driven mesoscale circulations on the Baltic coast. 1st Study Conference on BALTEX, August 28-September 1, Visby, Sweden.
27. Grisogono, B, L. Ström and MT, 1995: The response of thermally forced mesoscale circulation on the synoptic wind direction. 1st Study Conference on BALTEX, August 28-September 1, Visby, Sweden.
28. Samuelsson, P., and MT, 1996: The effect of upwind inhomogeneities in the surface characteristics on aircraft measured fluxes. European Geophysical Society 21th General Assembly, The Hague, May 6-10 1996, *Annales Geophysicae*, Supp II, vol **14**, pp C476.
29. MT and L. Ström, 1996: Model Investigations of the Dynamics of Atmospheric Flow at the Californian Coast, American Geophysical Society Annual Fall Meeting, San Francisco, December 16-19 1996.
30. Samuelsson, P. and MT, 1997: Coherent boundary layer structures over the patchy Nopex landscape, 13th International Conference on Hydrology, American Meteorological Society General Assembly, Long Beach, February 3-7 1997.
31. MT and L. Ström, 1997: Coastal boundary-layer dynamics at a complex coastline with a coastal mountain barrier, IAMAP/IAPSO, Melbourne, Australia, July 2-9 1997.
32. MT, D. Koračin and G. Svensson, 1997: A numerical investigation of the first ASTEX Lagrangian, IAMAP/IAPSO, Melbourne, Australia, July 2-9 1997.
33. Koračin, D., MT and G. Svensson, 1997: Turbulent transfer and non-local mixing in the cloudy marine atmospheric boundary layer, 12th Symposium on Boundary Layers and Turbulence, Vancouver, Canada, July 28 – August 1 1997.
34. MT and L. Ström, 1997: Coastal boundary-layer dynamics at a complex coastline with a coastal mountain barrier, 12th Symposium on Boundary Layers and Turbulence, Vancouver, Canada, 28 July–1 August, 1997.
35. MT, 1998: Model simulations of coastal flows at Cape Mendocino during Coastal Waves 1996. 2nd Conference on Coastal Atmospheric and Oceanic Prediction and Processes, American Meteorological Society General Assembly, Phoenix, 11-16 January 1998.
36. Svensson, G., MT and D. Koračin, 1999: Numerical simulation of marine boundary layer clouds. 13th Symposium on Boundary Layers and Turbulence, Dallas, USA, January 11 – 15 1999.
37. Koračin, D. R., MT, G. Svensson and A. Andrén, 1999: Turbulence parameterization and non-local mixing in the inhomogeneous atmospheric boundary layer. 13th Symposium on Boundary Layers and Turbulence, Dallas, USA, January 11 – 15 1999.

38. Söderberg, S., and MT, 1999: Numerical investigations of coastal supercritical flows: Hypothetical scenarios. 3rd Conferences on Coastal Atmospheric and Oceanic Prediction and Processes, New Orleans, USA, November 3 – 5 1999.
39. Sundararajan, R., and MT, 1999: Simulations of spatially-inhomogeneous marine intrusions along the US California coast during the warm season. 3rd Conferences on Coastal Atmospheric and Oceanic Prediction and Processes, New Orleans, USA, November 3 – 5 1999.
40. MT and R. Sundararajan, 1999: Observations and modeling of a non-stationary coastal boundary layer. 3rd Conferences on Coastal Atmospheric and Oceanic Prediction and Processes, New Orleans, USA, November 3 – 5 1999.
41. Brooks, I., L. Ström, MT and D. P. Rogers, 1999: The mean and turbulence structure of an expansion fan in the coastal atmospheric boundary layer: Observations from Coastal Waves '96, AGU Fall Meeting in San Francisco, 13 – 17 December 1999.
42. MT, and A. Rune, 2000: Turbulence structure of the ASTEX First Lagrangian boundary and cloud layer, 14th Symposium of Boundary Layers and Turbulence, Aspen, August 2000.
43. MT, and P Samuelsson, 2000: The influence of a small lake on the mesoscale flow in a boreal forest boundary-layer, 14th Symposium of Boundary Layers and Turbulence, Aspen, August 2000.
44. Söderberg S. and MT, 2000: Transitions in supercritical flows along mountainous coastlines. 14th Conference on Mountain Meteorology, Aspen, August 2000.
45. Brooks, I., S. Söderberg and MT, 2001: The turbulence structure of the stable atmospheric boundary layer around a coastal headland. I Aircraft observations. 4th Conference on Coastal Atmospheric and Oceanic Prediction and Processes in St Petersburg, 6 - 9 November 2001.
46. Söderberg, S., MT and I. Brooks, 2001: The turbulence structure of the stable atmospheric boundary layer around a coastal headland. II Model results. 4th Conference on Coastal Atmospheric and Oceanic Prediction and Processes in St Petersburg, 6 - 9 November 2001.
47. Sundararajan, R., D. Koračin and MT, 2001: The effect of marine intrusions over coastal California. 4th Conference on Coastal Atmospheric and Oceanic Prediction and Processes in St Petersburg, 6 - 9 November 2001.
48. MT, G. Svensson, and R. Sundararajan, 2003: Mesoscale meteorology - is it important and can it be defined? NATO Advanced Science Workshop on "Air pollution on regional scale", Kallithea, Halkidiki , Greece, 13-15 June 2002.
49. MT, and A. Rune, 2002: Vertical structure of the ASTEX first Lagrangian cloud and boundary layer. 15th Conference on Boundary Layer and Turbulence, Wageningen, The Netherlands, 14-19 July 2002.
50. Söderberg, S., IM Brooks, and MT, 2002: Local scaling of turbulence in the stable internal boundary layer around a coastal headland. 15th Conference on Boundary Layer and Turbulence, Wageningen, The Netherlands, 14-19 July 2002.
51. Söderberg, S., MT, and I. M. Brooks, 2002: Taking a closer look at the turbulence in a higher-order closure mesoscale model. 15th Conference on Boundary Layer and Turbulence, Wageningen, The Netherlands, 14-19 July 2002.
52. Žagar, M., G. Svensson and MT, 2002: Coastal small-scale variability of the surface turbulent momentum flux. 15th Conference on Boundary Layer and Turbulence, Wageningen, The Netherlands, 14-19 July 2002.
53. MT, M. L. Jensen, S. Oncley, P. O. G. Persson and A. Targino, 2002: The boundary-layer program during the Arctic Ocean 2001 experiment. 15th Conference on Boundary Layer and Turbulence, Wageningen, The Netherlands, 14-19 July 2002.
54. Targino A. and MT, 2002: The structure of the Arctic surface layer during the AO2001 expedition. 15th Conference on Boundary Layer and Turbulence, Wageningen, The Netherlands, 14-19 July 2002.
55. M. Jensen, MT and A. Targino, 2002: A new system for airborne measurements of high-resolution 3D winds using a tethered lifting system (TLS). 15th Conference on Boundary Layer and Turbulence, Wageningen, The Netherlands, 14-19 July 2002.
56. Persson, P. O. G., S. Abbott, M. L. Jensen, B. Larsson, V. Leuski, A. Targino, B. Templeman, MT, and A. B. White, 2002: Remote sensing of the late-summer boundary layer near the north pole. 15th Conference on Boundary Layer and Turbulence, Wageningen, The Netherlands, 14-19 July 2002.
57. Žagar, M., MT and G. Svensson, 2003: A simulation of the SHEBA year (October 1997 – October 1998) with COAMPS model, European Geophysical Union General Assembly, Nice, 7 - 11 April, 2003.
58. Žagar, M., G. Svensson and MT, 2003: Estimating the impact of the meteorological model to an environmental application. European Geophysical Union General Assembly, Nice, 7 - 11 April 2003.

59. MT, G. Svensson, and R. Sundararajan, 2003: Mesoscale meteorology - is it important and can it be defined? in "Air pollution on regional scale", D. Melas and D. Syrakov (Eds.), Kluwer Academic Publishers, Dordrecht.
60. MT, 2003: Boundary-layer structure in the high Arctic during the AOE-2001. 7th Conference on Polar Meteorology and Oceanography, Hyannis, 12-16 May 2003.
61. MT, M. L. Jensen, S. P. Oncley and P. O. G. Persson, 2003: The AOE-2001 meteorological experiment in the high Arctic. 7th Conference on Polar Meteorology and Oceanography, Hyannis, 12-16 May 2003.
62. MT and C. Leck, 2003: Possible feedbacks on Arctic cloud formation: Can the Arctic biosphere affect the melting of the ice? SEARCH Open Science Meeting, Seattle, 27 - 30 October 2003.
63. MT and C. Leck, 2003: The Swedish icebreaker Oden as a research platform: The Arctic Ocean Experiment 2001, SEARCH Open Science Meeting, Seattle, 27 - 30 October 2003.
64. Angevine, W. M., C. Senff, A. B. White, MT, M. Žagar, 2003: Coastal boundary layer influence on pollutant transport in New England. AGU Fall Meeting, San Francisco.
65. MT, M. Žagar, G Svensson, J Cassano, S. Pfeifer, A. Rinke, K. Wyser, K. Dethloff, C. Jones and T. Semmler, 2004: The Arctic boundary-layer in six different RCM compared to SHEBA observations (ARCMIP), 1st WCRP Regional Climate Modeling Workshop, Lund, 29 March – 2 April 2004.
66. Söderberg, S., and MT 2004: Modeling the turbulent structure of the katabatic jet, 16th Symposium on Boundary Layers and Turbulence, Portland, Maine 9 – 13 August 2004.
67. Angevine, W. M., M. Žagar, MT, C. Senff, and A. White, 2004: Coastal boundary layer transport of urban pollution in New England, 16th Symposium on Boundary Layers and Turbulence, Portland, Maine 9 – 13 August 2004.
68. MT, M. Žagar, G. Svensson, J. J. Cassano, K. Dethloff, C. G. Jones, S. Pfeifer, A. Rinke, T. Semmler, M. Shaw, and K. Wyser, 2004: The Arctic boundary layer in six regional scale (ARCMIP) models, 16th Symposium on Boundary Layers and Turbulence, Portland, Maine 9 – 13 August 2004.
69. Žagar, M., MT and W. M. Angevine, 2004: New England coastal boundary layer modeling, 16th Symposium on Boundary Layers and Turbulence, Portland, Maine 9 – 13 August 2004.
70. MT and T. Mauritsen, 2004: Variability and vertical structure of the summer Arctic boundary layer, 16th Symposium on Boundary Layers and Turbulence, Portland, Maine 9 – 13 August 2004.
71. MT and C. Leck, 2004: The Swedish icebreaker Oden as a research platform: The arctic ocean experiment 2001, Bjerknes Centennial Symposium, Bergen, 1 – 3 September 2004.
72. MT, M. Žagar, G. Svensson, 2004: How good is the surface energy balance in current atmospheric climate models? Bjerknes Centennial Symposium, Bergen, 1 – 3 September 2004.
73. Leck, C., and MT, 2004: Possible feedbacks on arctic cloud formation: can the arctic biosphere affect the melting of the ice? Bjerknes Centennial Symposium, Bergen, 1 – 3 September 2004.
74. Graversen, R. G., MT, and E. Källén, 2004: Do changes in the mid-latitude circulation have any impact on arctic surface air temperature trend? Bjerknes Centennial Symposium, Bergen, 1 – 3 September 2004.
75. MT and C. Leck, 2004: The Swedish icebreaker Oden as a research platform: The arctic ocean experiment 2001, ACIA Science Symposium, Reykjavik, 10 – 12 November 2004.
76. MT, M. Žagar, G. Svensson, 2004: How good is the surface energy balance in current atmospheric climate models? ACIA Science Symposium, Reykjavik, 10 – 12 November 2004.
77. Leck, C., and MT, 2004: Possible feedbacks on arctic cloud formation: can the arctic biosphere affect the melting of the ice? ACIA Science Symposium, Reykjavik, 10 – 12 November 2004.
78. Graversen, R. G., MT, and E. Källén, 2004: Do changes in the mid-latitude circulation have any impact on arctic surface air temperature trend? ACIA Science Symposium, Reykjavik, 10 – 12 November 2004.
79. MT, 2005: Coastal and polar atmospheric regional modeling – how good are our models? (Invited Presentation), Joint Session of 6th Conference on Coastal Atmospheric and Oceanic Prediction and Processes, and 8th Conf on Polar Meteorology and Oceanography, San Diego, 9 – 12 January 2005.
80. MT, M. Žagar and W. M. Angevine, 2005: New England coastal air pollution dispersion modeling. 6th Conference on Coastal Atmospheric and Oceanic Prediction and Processes, San Diego, 9 – 12 January 2005.
81. Leck, C., K. Bigg and MT, 2005: Sources of biogenic aerosol particles over the central Arctic Ocean associated with the open lead surface microlayer. 8th Conf on Polar Meteorology and Oceanography, San Diego, 9 – 12 January 2005.
82. MT and T. Mauritsen, 2005: Variability and vertical structure of the summer Arctic boundary layer. 8th Conf on Polar Meteorology and Oceanography, San Diego, 9 – 12 January 2005.

83. MT, M. Žagar, G. Svensson, A. Rinke, K. Dethloff, J. Cassano, C. Jones, K. Wyser, and M. Shaw, 2005: The Arctic boundary layer in six regional scale (ARCMIP) models. 8th Conf on Polar Meteorology and Oceanography, San Diego, 9 – 12 January 2005.
84. MT, 2005: So what is so special about Arctic clouds? (Invited), ARM Science Team Meeting, Daytona Beach, 14 –18 March 2005.
85. MT, M. Žagar and S. Söderberg, 2005: Modeling the Arctic boundary layer, Workshop on Arctic the climate, Alfred Wegener Institute, Potsdam, 5 – 7 September 2005.
86. Söderberg, S., MT and M. Žagar and, 2005: Modeling the summer Arctic boundary layer, Workshop on Arctic the climate, Workshop on Arctic the climate, Alfred Wegener Institute, Potsdam, 5 – 7 September 2005.
87. MT, 2005: So what is so special about Arctic clouds? (Invited), CIRES Distinguished Lecture, Boulder 11 November 2005.
88. MT, M. Žagar and S. Söderberg, 2005: Modeling the Arctic boundary layer, Workshop on Arctic the climate, Alfred Wegener Institute, Potsdam, 5 – 7 September 2005.
89. Söderberg, S., MT and M. Žagar and, 2005: Modeling the summer Arctic boundary layer, Workshop on Arctic the climate, Workshop on Arctic the climate, Alfred Wegener Institute, Potsdam, 5 – 7 September 2005.
90. MT, 2005: Are coastal atmospheric boundary layers modeled sufficiently well for small-scale coupling to the coastal ocean? NURC Workshop on High Resolution Coupled Coastal Prediction Systems, 28 November – 2 December, La Spezia, Italy.
91. MT, 2005: What did we learn about the Arctic boundary layer from AOE-2001? Final AOE-2001/ASCOS pre-planning workshops. Stockholm, 10 –12 December 2005.
92. MT, 2005: The mysterious (Arctic) boundary layer, Final AOE-2001/ASCOS pre-planning workshops. Stockholm, 10 – 12 December 2005.
93. MT, 2006: Is there a diurnal cycle in the summer Arctic cloud-capped boundary layer? AMS 17th Symposium on Boundary Layers and Turbulence, San Diego, California 22 – 25 May, 2006.
94. MT and T. Mauritsen, 2006: Variability and vertical structure of the summer Arctic boundary layer. CIRES Member's Council Symposium, April 12 2006.
95. MT, M. Žagar, G. Svensson, J. J. Cassano, K. Dethloff, C. G. Jones, S. Pfeifer, A. Rinke, T. Semmler, M. Shaw, and K. Wyser, 2005: How good is the surface energy balance in current atmospheric climate models? CIRES Member's Council Symposium, April 12 2006.
96. Wisthaler, A., MT and M. Jensen, 2006: Arctic aerosol and trace gas profiles with biogenic origin during the AOE-2001. Joint IGAC/CACGP/SOLAS/WMO Symposium: Atmospheric Chemistry at the interfaces and 9th Scientific Conference of the IGAC Project, 17-23 September 2006, Cape Town, South Africa.
97. Hovelsrud, G., MT and L. A. Andersson, 2006: ISAC – an International Study on Arctic Change. ESSP Open Science Conference, Beijing 9 – 12 November 2006.
98. Wisthaler, A., E. Swietlicki, MT, A. Hansel and C. Leck, 2007: In-situ evidence for free-tropospheric long-range transport of a Siberian forest fire plume to the north pole region. NOSA 2006 Conference, Helsinki 8-10 November 2006.
99. Hovelsrud, G., MT and L. A. Andersson, 2006: ISAC – an International Study on Arctic Change. AGU Annual Meeting, San Francisco, 11-15 December 2006.
100. MT, 2007: Is there a diurnal cycle in the summer Arctic cloud-capped boundary layer? EGU General Assembly, Vienna 16 – 20 April, 2007.
101. Sedlar, J. and MT, 2007: Boundary layers and clouds in Arctic regional climate models. EGU General Assembly, Vienna 16 – 20 April, 2007.
102. MT, 2007: Why should we believe Arctic climate models? (Invited). 2007 Arctic Forum, Washington DC, 23 – 24 May 2007.
103. Hovelsrud, G., MT and L. A. Andersson, 2006: ISAC – an International Study on Arctic Change. 2007 Arctic Forum, Washington DC, 23 – 24 May 2007.
104. Birch, C., I. M. Brooks, MT, S. F. Milton, 2007: Turbulent exchange over the arctic icecap. 15th Conference on Air-Sea Interaction, 20–24 August 2007, Portland, Oregon.
105. MT, 2007: Small-scale Dynamic Processes. (Invited) Polar Dynamics, August 2007, Bergen.
106. MT, 2007: What (little?) do we know about the Arctic atmosphere (Invited). *Global environmental change: The role of the Arctic*, ESF-VR-Formas conference, 13-17 October, Nynäshamn Sweden.
107. MT, 2008: The Vertical Structure of the Arctic Atmosphere, and some words on one Swedish contributions to IPY (Invited). AMAP workshop on "The use of Unmanned Aerial Vehicles (UAV) for Arctic Research", 27-28 April, Stockholm.

108. Murray, M.S., and MT, 2008: The international study of Arctic change (ISAC). 2008 Arctic Forum, Washington DC, 13 – 15 May 2007.
109. Paatero, J., Leck, C., MT, Hatakka J. and Viisanen, Y., 2008: External radiation dose rate over the arctic ocean. Nordic Radiation Protection Society, Ålesund 26 – 30 May 2008.
110. MT, B. B. Balsley, G. Svensson, and C. J. Nappo, 2008: Observations of turbulence in the residual layer. AMS 18th Symposium on Boundary Layers and Turbulence, Stockholm, 9-13 June 2008.
111. MT and R. G. Graversen, 2008: Arctic boundary-layer inversions from SHEBA observations and ERA-40 reanalysis data. AMS 18th Symposium on Boundary Layers and Turbulence, Stockholm, 9-13 June 2008.
112. Balsley, B. B., MT and G. Svensson, 2008: Turbulence in the nocturnal boundary layer: highly-structured, strongly-variable, but ubiquitous. AMS 18th Symposium on Boundary Layers and Turbulence, Stockholm, 9-13 June 2008.
113. Sedlar, J., and MT, 2008: Cloud and inversion characteristics over the Arctic pack ice. AMS 18th Symposium on Boundary Layers and Turbulence, Stockholm, 9-13 June 2008.
114. Bocquet, F., B. B. Balsley, MT, and G. Svensson, 2008: Using the TLS system to improve understanding of atmospheric turbulent processes. AMS 18th Symposium on Boundary Layers and Turbulence, Stockholm, 9-13 June 2008.
115. Birch, C. E., I. M. Brooks, MT and S. F. Milton, 2008: The performance of the Met Office Unified Model over the central Arctic Ocean. AMS 18th Symposium on Boundary Layers and Turbulence, Stockholm, 9-13 June 2008.
116. MT, T. Mauritsen and J. Sedlar, 2008: The Arctic Summer Cloud-Ocean Study – Some preliminary results. DAMOCLES General Assembly, 25 – 28 November, Sopot, Poland.
117. MT and C. Leck, 2008: ASCOS – The Arctic Summer Cloud-Ocean Study (Invited). AGU Fall Meeting, San Francisco, 15 – 19 December 2008.
118. MT, 2009: Is every 50 years enough? What - and how - have we learned about the Arctic from the IPY? (Invited). American Meteorological Society's 10th Conference on Polar Meteorology and Oceanography, 18-21 May 2009 in Madison, Wyoming.
119. MT, J. Paatero, M. Szczodrak, and C. Wheeler, 2009: The summer 2008 central Arctic weather conditions as observed during ASCOS. American Meteorological Society's 10th Conference on Polar Meteorology and Oceanography, 18-21 May 2009 in Madison, Wyoming.
120. Sedlar, J., MT and T. Mauritsen, 2009: The influence of cloud cover on the surface energy budget during ASCOS. American Meteorological Society's 10th Conference on Polar Meteorology and Oceanography, 18-21 May 2009 in Madison, Wyoming.
121. Shupe, M., O. Persson, P. Johnston, C. Wheeler, and MT, 2009: Surface-based remote-sensing of clouds during ASCOS. American Meteorological Society's 10th Conference on Polar Meteorology and Oceanography, 18-21 May 2009 in Madison, Wyoming.
122. Brooks, I.M., C. E. Birch, M. K. Hill, T. Mauritsen, J. Sedlar and MT, 2009: and Tethered balloon measurements of Arctic boundary layer mean and turbulent structure during ASCOS. American Meteorological Society's 10th Conference on Polar Meteorology and Oceanography, 18-21 May 2009 in Madison, Wyoming.
123. Persson, P.O.G., V. Leuski, M. Shupe, I. M. Brooks and MT, 2009: High-temporal resolution observations of the thermal and kinematic vertical structure in the Arctic boundary-layer during ASCOS. American Meteorological Society's 10th Conference on Polar Meteorology and Oceanography, 18-21 May 2009 in Madison, Wyoming.
124. Birch, C.E., I. M. Brooks, S. F. Milton, P. Earnshaw and MT, 2009: An evaluation of the U.K. Met Office Unified Model over the central Arctic Ocean during ASCOS. American Meteorological Society's 10th Conference on Polar Meteorology and Oceanography, 18-21 May 2009 in Madison, Wyoming.
125. Gasiewski, A., A. Chaturvedi, E. McIntyre, D. M. Kraft, O. Persson, MT, M. Beaubien, and W. Jeffries, 2009: Use of a new generation of dropsondes during the 2008 Arctic Mechanisms of Interaction Between the Surface and Atmosphere (AMISA) Campaign. American Meteorological Society American Meteorological Society's 10th Conference on Polar Meteorology and Oceanography, 18-21 May 2009 in Madison, Wyoming.
126. Gasiewski, A., E. McIntyre, D. M. Kraft, O. Persson, V. Leusky, MT, M. Tian, and A. Chaturvedi, 2009: Radiometric Observations of the Arctic Environment during the 2008 Arctic Mechanisms of Interaction Between the Surface and Atmosphere (AMISA) Campaign. American Meteorological Society's 10th Conference on Polar Meteorology and Oceanography, 18-21 May 2009 in Madison, Wyoming.
127. Persson, P.O.G., E. Sukovich, A. Gasiewski, B. J. Brooks, A. Chaturvedi, M. Shupe, and MT, 2009: Aircraft observations during the 2008 ASCOS/AMISA field program: Overview of the synoptic/mesoscale

environment, boundary-layer structure, and cloud microphysics. American Meteorological Society's 10th Conference on Polar Meteorology and Oceanography, 18-21 May 2009 in Madison, Wyoming.

128. R. Y. Chang, S. J. Sjostedt, J. Abbatt, K. L. Hayden, S. Li, R. Leaitch, M. Martin, B. Sierau, Q. Gao, C. Leck, M. K. Tjernström, 2009: Aerosol Chemical Composition Measured in the Arctic during ASCOS and Arctic-SOLAS. American Geophysical Union Fall Meeting, San Francisco.
129. MT, 2009: Small-scale atmospheric processes: Confronting models with observations (Invited). DAMOCLES General Assembly, 10-12 November, 2009, Brussels
130. Sedlar, J., MT, T. Mauritsen, I. Brooks, C. Birch, O. Persson, M. Shupe, and A. Sirevaag, 2009: The summer-fall transition - a surface energy budget perspective. DAMOCLES General Assembly, 10-12 November, 2009, Brussels
131. MT and C. Leck, 2009: Arctic Summer Cloud Ocean Study - ASCOS. DAMOCLES General Assembly, 10-12 November, 2009, Brussels
132. MT and C. Leck, 2010: Arctic Summer Cloud Ocean Study - ASCOS. State of the Arctic conference, 16-19 March, 2010, Miami, Florida.
133. Sedlar, J., MT, T. Mauritsen, I. Brooks, and M. Shupe, 2010: The impact of albedo, solar zenith angle and clouds on the transition from melt to freeze in the high latitude Arctic. State of the Arctic conference, 16-19 March, 2010, Miami, Florida.
134. MT, 2010: International Arctic science – a vision for the future (Invited). State of the Arctic conference, 16-19 March, 2010, Miami, Florida.
135. Ranjha, R., MT, Gunilla Svensson, 2010: Scale Dependence of Model Simulated Coastal Low-Level Wind Jets. American Meteorological Society's *9th Conference on Coastal Atmospheric and Oceanic Prediction and Processes*, 17 September – 1 October, Annapolis, MD, USA.
136. MT, T. Mauritsen and J. Sedlar, 2010: Boundary layer - cloud interaction in the summer Arctic. 19th Symposium on Boundary Layers and Turbulence, August 2–6, 2010, Keystone, Colorado.
137. MT, R.G. Graversen and T. Mauritsen, 2010: Can Arctic sea-ice melt be explained by atmospheric meridional transports? (Invited). American Geophysical Union Fall Meeting, 13-17 December, 2010, San Francisco, California.
138. MT., T. Mauritsen, J. Sedlar and M.D. Shupe: Boundary-layer and aerosol/cloud interaction in central Arctic summer observed during ASCOS (Invited), 2010. American Geophysical Union Fall Meeting, 13-17 December, 2010, San Francisco, California.
139. Mauritsen, T., J. Sedlar, MT, C. Leck, M. Martin, M. Shupe, S. Sjogren, B. Sierau, P. O. G. Persson, I. M. Brooks, E. Swietlicki, 2011: Arctic aerosol indirect effects. *EGU General Assembly, 3-8 April, Vienna, Austria.*
140. Pleavin, T.D., I.M. Brooks, S. Dobbie, M. Shupe, P. O. G. Persson, MT, and B. J. Brooks, 2011: Large Eddy Simulations of Arctic stratus: ASCOS case studies. American Meteorological Society's 11th Conference on Polar Meteorology and Oceanography, 5-10 May 2011 in Boston, Massachusetts.
141. G. Canut, I.M. Brooks, P.O.G. Persson, M. Shupe, MT, J. Sedlar, and C.E. Birch, 2011: Boundary layer structure during ASCOS – Multi-sensor retrievals and diagnostics. American Meteorological Society's 11th Conference on Polar Meteorology and Oceanography, 5-10 May 2011 in Boston, Massachusetts.
142. C.E. Birch, I.M. Brooks, P. Earnshaw, C. Leck, A. Lock, T. Mauritsen, S.F. Milton, P.O.G. Persson, J. Sedlar, M. Shupe, and MT, 2011: Modelling the vertical structure of the central Arctic boundary layer : ASCOS case studies. American Meteorological Society's 11th Conference on Polar Meteorology and Oceanography, 5-10 May 2011 in Boston, Massachusetts.
143. M. Shupe, P.O.G. Persson, A. Solomon, I.M. Brooks, T. Mauritsen, J. Sedlar, and MT, 2011: Dynamical and microphysical characteristics and interactions in Arctic mixed-phase clouds. American Meteorological Society's 11th Conference on Polar Meteorology and Oceanography, 5-10 May 2011 in Boston, Massachusetts.
144. I.M. Brooks, A. Held, C. Leck, MT, S.J. Norris, G. de Leeuw, A. Sirevaag, C.E. Birch, and B.J. Brooks, 2011: Linking the Arctic Ocean and clouds - bubble and aerosol flux measurements from ASCOS. American Meteorological Society's 11th Conference on Polar Meteorology and Oceanography, 5-10 May 2011 in Boston, Massachusetts.
145. MT, T. Mauritsen, M. Shupe, J. Sedlar, and I.M. Brooks , 2011: Boundary-layer and aerosol/cloud interaction in central Arctic summer observed during ASCOS. American Meteorological Society's 11th Conference on Polar Meteorology and Oceanography, 5-10 May 2011 in Boston, Massachusetts.
146. Birch, C. E., I. M. Brooks, P. Earnshaw, C. Leck, A. Lock, T. Mauritsen, S. F. Milton, P. O. G. Persson, J. Sedlar, M. Shupe, and MT, 2011: Modelling the vertical structure of the central Arctic boundary layer: ASCOS case studies, IUGG Conference, 28 June – 7 July, Melbourne, Australia

147. A. Devasthale and MT, 2011: The vertical structure of the Essential Climate Variables (ECVs) over the Arctic observed by A-Train. International Arctic Science Committee's Atmospheric Working Group Workshop, 26-27 September, 2011, Potsdam, Germany.
148. Brooks, I.M., P.O.G Persson, M. Shupe, MT, C. Birch, T. Mauritsen, J. Sedlar, G. Canut, B.J. Brooks, C. Leck, 2011: Arctic (ASCOS) boundary layer measurements and model representation. International Arctic Science Committee's Atmospheric Working Group Workshop, 26-27 September, 2011, Potsdam, Germany.
149. MT, I. M. Brooks, P.O.G. Persson, M. Shupe, C. Birch, T. Mauritsen, J. Sedlar, 2011: Arctic cloud and boundary layer processes in observations (and modelling). International Arctic Science Committee's Atmospheric Working Group Workshop, 26-27 September, 2011, Potsdam, Germany.
150. Brooks, I. M., A. Held, C. Leck, MT, S. J. Norris, G. de Leeuw, A. Sirevaag, C. E. Birch, B. J. Brooks, 2011: Bubble and aerosol fluxes in and over leads in Arctic sea ice: results from ASCOS. *UK Arctic Science Conference, 14-16 Sept. Leeds, UK.*
151. Pleavin, T. D., I. M. Brooks, J. S. Dobbie, M. Shupe, P. O. G. Persson, MT, B. J. Brooks, 2011: Large Eddy Simulations of Arctic Stratus: ASCOS case studies. *UK Arctic Science Conference, 14-16 Sept. Leeds, UK.*
152. Birch, C. E., I. M. Brooks, P. Earnshaw, C. Leck, A. Lock, T. Mauritsen, S. F. Milton, P. O. G. Persson, J. Sedlar, M. Shupe, and MT, 2011: Modelling the vertical structure of the central Arctic boundary layer: ASCOS case studies. *UK Arctic Science Conference, 14-16 Sept. Leeds, UK.*
153. Canut, G., I. M. Brooks, P. O. G. Persson, M. Shupe, MT, T. Mauritsen, J. Sedlar, and C. E. Birch, 2011: Boundary layer structure during ASCOS – Multi-sensor retrievals and diagnostics. *UK Arctic Science Conference, 14-16 Sept. Leeds, UK.*
154. MT, 2011: The Arctic boundary layer - Interactions with the surface, and clouds, as learned from observations (and some modeling), (Invited). European Centre for Medium Range Weather Forecast (ECMWF) and Gewex Atmospheric Boundary Layer Study (GABLS) Joint workshop on stable boundary layers and surface interaction, 7-12 November, 2011, Reading, UK.
155. Stramler, K., J. Sedlar and MT, 2011: CMIP5 models in the Arctic: Evaluating near-term processes and distribution shifts in a changing climate. American Geophysical Union Fall Meeting, 12-16 December, 2011, San Francisco, California.
156. Syed, F. S., H. Körnich, MT, 2012: On the fog variability over South Asia, European Geophysical Union, 22-27 April, 2012, Vienna, Austria.
157. Pleavin, T. D., I. M. Brooks, J. S. Dobbie, M. D. Shupe, MT, P. O. G. Persson, B. J. Brooks, 2012: A large eddy simulation study of Arctic boundary-layer cloud during ASCOS, AMS 20th Conference on Boundary Layers and Turbulence, 8-13 July, Boston, USA.
158. Canut, G., I. M. Brooks, M. D. Shupe, P. O. G. Persson, MT, J. Sedlar, T. Mauritsen, C. E. Birch, B. J. Brooks, 2012: Turbulence structure of the central Arctic boundary layer, AMS 20th Conference on Boundary Layers and Turbulence, 8-13 July, Boston, USA.
159. MT, 2012: The Arctic Ocean Atmospheric boundary layer (keynote), WCRP & WWRP Joint Workshop on Physics in Weather and Climate Models, 20-23 March, 2012, California Institute of Technology, Pasadena, California, USA.
160. MT, M. Kapsch, T. Mauritsen, R. G. Graversen, J. Sedlar and M. Shupe, 2012: The Role of Longwave Radiation for Arctic Sea Ice. American Geophysical Union Fall Meeting, 10-14 December, 2012, San Francisco, California.
161. Wesslén, C., MT, D. H. Bromwich, S. H. Wang, L. S. Bai, G. de Boer, 2013: Evaluating central Arctic summer conditions in the Arctic System Reanalysis (ASR) and ERA-Interim using Arctic-Summer Cloud-Ocean-Study (ASCOS) data. European Geoscience Union, 8-12 April, 2013, Vienna, Austria.
162. Salih, A.S.M., Zhang, Q. and MT, 2013: Lagrangian tracing of Sahelian Sudan moisture sources. European Geoscience Union, 8-12 April, 2013, Vienna, Austria.
163. Dethloff, K, MT, M. Shupe, P. O. G. Persson, 2013: Multidisciplinary drifting Observatory for the Study of Arctic Climate – MOSAiC. Arctic Science Summit Week, 16-19 April, 2013, Krakow, Poland.
164. Vihma, T, C. Lüpkes, T. Nygård, I. Renfrew, J. Sedlar, MT, 2013: Recent advances in understanding and parameterization of small-scale physical processes in the Arctic atmosphere. Arctic Science Summit Week, 16-19 April, 2013, Krakow, Poland.
165. Wesslén, C., MT, D. H. Bromwich, S. H. Wang, L. S. Bai, G. de Boer, 2013: Evaluating central Arctic summer conditions in the Arctic System Reanalysis (ASR) and ERA-Interim using Arctic-Summer Cloud-Ocean-Study (ASCOS) data. Arctic Science Summit Week, 16-19 April, 2013, Krakow, Poland.
166. MT, 2013: Why modelers should care about field projects (invited), ECMWF & WWRP Joint Workshop on Polar Prediction, 24-27 June at ECMWF, Reading, UK.

167. Kapsch, M., R. G. Graversen and MT, 2013: The importance of spring atmospheric conditions for the prediction of summer sea ice extent. American Geophysical Union Fall Meeting, 9-13 December, 2013, San Francisco, California.
168. Johansson, E., A. Devasthale, T. L'Ecuyer, A. Ekman and MT, 2014: The cloud radiative heating in the upper troposphere lower stratosphere over the Indian Subcontinent. SPARC conference.
169. Sotiropoulou, G., J. Sedlar, MT, M. D. Shupe, I. M. Brooks and P. O. G. Persson, 2014: The thermodynamic structure of summer Arctic stratocumulus and the dynamic coupling to the surface, European Geophysical Union General Assembly, 27 April – 2 May, 2014, Vienna.
170. MT, J. Sedlar, I. Brooks, M. Shupe and O. Persson, 2014: Arctic mixed phase summer clouds: Lessons from ASCOS. European Geophysical Union General Assembly, 27 April – 2 May, April 2014, Vienna.
171. Jansen, R. A., I. M. Brooks**,** M. D. Shupe, J. Sedlar, MT, P. O. G. Persson, J. S. Dobbie, 2014: Radatively driven in-cloud turbulence and cloud-surface coupling in Arctic Stratocumulus, AMS 20th Conference on Boundary Layers and Turbulence, June 9-13, Leeds, UK.
172. Salisbury, D., I. M. Brooks, J. Prytherch, B. J. Brooks, J. Sedlar, G. Sotiropoulou, MT, P. O. G. Persson, M. D. Shupe, B. I. Moat, P. Achtert, 2015: Characterizing surface conditions during the Arctic Cloud in Summer Experiment (ACSE), AMS 19th Conference on Air-Sea Interaction, January 4-8, Phoenix, AZ, USA.
173. Brooks, I. M., J. Prytherch, D. J. Salisbury, B. J. Brooks, J Sedlar, G. Sotiropoulou, MT, P. O. G. Persson, M. D. Shupe, P. M. Crill, B. F. Thornton, B. I. Moat, P. Achtert, 2015: Surface Turbulent Exchange over the Arctic Ocean – Measurements from the SWERUS-C3 / ACSE Project, AMS 19th Conference on Air-Sea Interaction, January 4-8, Phoenix, AZ, USA.
174. Achtert, P., D. J. Salisbury, J. Prytherch, J. Sedlar, G. Sotiropoulou, MT, B. J. Brooks, I. M. Brooks, M. D. Shupe, P. O. G. Persson, P. Johnston, D. Wolfe, 2015: Observations of the Arctic boundary layer during ACSE 2014, High-Latitude dynamics workshop, Rosendal, 23-27 March, 2015.
175. Brooks, I., M., J. Prytherch, D. J Salisbury, B. J. Brooks, P. Achtert, J. Sedlar, MT, G. Sotiropoulou, P. O. G. Persson, M. D. Shupe, P. Johnston, D. Wolfe, B. I. Moat, 2015: In situ measurements of surface exchange over the Arctic Ocean, High-Latitude dynamics workshop, Rosendal, 23-27 March, 2015.
176. Brooks, B. J., P. Achtert, I. M. Brooks, J. Prytherch, D. J Salisbury, J. Sedlar, MT, G. Sotiropoulou, P. O. G. Persson, M. D. Shupe, P. Johnston, D. Wolfe, 2015: Interactions between Arctic clouds, boundary-layer structure, and surface conditions over the Arctic Ocean, High-Latitude dynamics workshop, Rosendal, 23-27 March, 2015.
177. Persson, P. O. G., Matthew D. Shupe, MT, J. Sedlar, I. M. Brooks, B. J. Brooks, G. Björk, J. Prytherch, D. J Salisbury, P. Achtert, G. Sotiropoulou, P. Johnston, and D. Wolfe, 2015: Atmosphere-Ice-Ocean Interactions During Summer Melt and Early Autumn Freeze-up: Observations from the ACSE Field Program, High-Latitude dynamics workshop, Rosendal, 23-27 March, 2015.
178. Prytherch, J., D. J. Salisbury, P. Achtert, J. Sedlar, G. Sotiropoulou, MT, B. J. Brooks, I. M. Brooks, M. D. Shupe, P. O. G. Persson, P. Johnston, D. Wolfe, B. Moat, 2015: Wave state and surface turbulent exchange over low fractional ice cover, High-Latitude dynamics workshop, Rosendal, 23-27 March, 2015.
179. Salisbury, D., J. Prytherch, M. C. Tsamados, I. M. Brooks, B. J. Brooks, P. Achtert, J. Sedlar, MT, G. Sotiropoulou, P. O. G. Persson, M. D. Shupe, P. Johnston, D. Wolfe, B. Moat, 2015: Evaluating surface flux parameterizations over Arctic sea ice, High-Latitude dynamics workshop, Rosendal, 23-27 March, 2015.
180. Sotiropoulou, G., J. Sedlar, MT, M. D. Shupe, I. M. Brooks and P. O. G. Persson, 2015: The thermodynamic structure of summer Arctic stratocumulus and the dynamic coupling to the surface, High-Latitude dynamics workshop, Rosendal, 23-27 March, 2015.
181. MT and coauthors, 2015: The role of clouds in shaping Arctic climate, High-Latitude dynamics workshop, Rosendal, 23-27 March, 2015.
182. Vihma, T., J. Screen, MT, X. Zhang, V. Popova, B. Newton, C. Deser, M. Holland, J. Walsh, T. Prowse, 2015: Air moisture, clouds and net precipitation in the Arctic: processes, changes and research challenges, High-Latitude dynamics workshop, Rosendal, 23-27 March, 2015.
183. Johansson, E., A. Devasthale, A. Ekman, T. L'Ecuyer, and MT, 2015: The vertical distribution of cloud regimes and their radiative impact under active phases of the Arctic Oscillation, European Geophysical Union General Assembly, 12-17 April 2015, Vienna.
184. MT, Matthew Shupe, P. Achtert, B. J. Brooks, I. M. Brooks, P. Johnston, P. O. G. Persson, J. Prytherch, D. Salisbury, J. Sedlar, G. Sotiropoulou, D. Wolfe, 2015: The "blob of death", or how warm air advection causes rapid ice melt, European Geophysical Union General Assembly, 12-17 April 2015, Vienna.
185. Persson, P. O. G., B. J. Brooks, MT, J. Sedlar, I. M. Brooks, M. Shupe, G. Björk, J. Prytherch, D. Salisbury, P. Achtert, G. Sotiropoulou, P. Johnston, D. Wolfe, 2015: Atmosphere-Ice-Ocean Interactions During

Early Autumn Freeze-up: Boundary-Layer and Surface Observations from the ACSE Field Program, European Geophysical Union General Assembly, 12-17 April 2015, Vienna.

186. MT, B. J. Brooks, I. M. Brooks, P. Johnston, P. O. G. Persson, J. Prytherch, D. Salisbury, J. Sedlar (1), M. Shupe, G. Sotiropoulou and D. Wolfe, 2015: Atmospheric observations during the Arctic Clouds in Summer Experiment (ACSE), European Geophysical Union General Assembly, 12-17 April 2015, Vienna.
187. MT, M. Shupe, P. Achtert, B. Brooks, I. Brooks, P. Johnston, O. Persson, J. Prytherch, D. Salisbury, J. Sedlar, G. Sotiropoulou, D. Wolfe, 2015: Rapid sea-ice melt due to warm air advection: Observations from the ACSE field program, Arctic Science Summit Week, 27 April – 1 May 2015, Toyama, Japan.
188. Brooks I. M., MT, M. D. Shupe, P. O. G. Persson, B. J. Brooks, D. J. Salisbury, P. Achtert, J. Prytherch, J. Sedlar, G. Sotiropoulou, P. E. Johnston, D. Wolfe. 2015: The Arctic Cloud Summer Experiment (ACSE), UK Arctic Science Conference, Sept 16-18, Sheffield, UK
189. Geibel, M. C., B. Thornton, J. Prytherch, I. M. Brooks, D. Salisbury, MT, I. Similetov, C.-M. Mörth, C. Humborg, and P. Crill, 2015: Characterization of sea-air methane fluxes around a seafloor gas seep in the central Laptev Sea. American Geophysical Union Fall Meeting, 14-18 December 2015, San Francisco, California, USA.
190. Salisbury, D. S, I. M Brooks, J. Prytherch, B. I Moat, O. P. G. Persson, J. Sedlar, G. Sotiropoulou, MT, P. Achtert, B. J. Brooks and M. Shupe, 2015: In situ measurement of the drag coefficient over Arctic sea ice. American Geophysical Union Fall Meeting, 14-18 December 2015, San Francisco, California, USA.
191. Achtert, P., G. Sotiropoulou, I. M. Brooks, B. Brooks, P. Johnston, P. O. G. Persson, J. Prytherch, D. Salisbury, J. Sedlar, MT, D. Wolfe, 2015: Observations of the Arctic boundary layer clouds during ACSE 2014, American Geophysical Union Fall Meeting, 14-18 December 2015, San Francisco, California, USA.
192. Sotiropoulou, G., J. Sedlar, R. Forbes, and MT, 2015: Summer Arctic Clouds in the ECMWF Forecast Model: an Evaluation of Cloud Parameterization Schemes, American Geophysical Union Fall Meeting, 14-18 December 2015, San Francisco, California, USA.
193. Igel, A., A. Ekman, C. Leck, J. Savré, MT, and J. Sedlar, 2015: A24C-03 The Influence of Free Tropospheric Aerosol on the Boundary Layer Aerosol Budget in the Arctic, American Geophysical Union Fall Meeting, 14-18 December 2015, San Francisco, California, USA.
194. Johansson E. A Devasthale, MT, T. L'Ecuyer, and A. Ekman, 2016: The radiative response of the lower troposphere to moisture intrusions into the Arctic, European Geophysical Union General Assembly, 17-22 April 2016, Vienna, Austria.
195. Persson, O., B Blomquist, P. Guest, C. Fairall, S. Stammerjohn, I. Brooks, G. Björk, MT, and J. Inoue, 2016: Surface Energy Fluxes During Arctic Freeze-Up, European Geophysical Union General Assembly, 17-22 April 2016, Vienna, Austria.
196. MT, G. Sotiropoulou, J. Sedlar, P. Achtert, B. Brooks, I. Brooks, O. Persson, J. Prytherch, D. Salisbury, M. Shupe, P. Johnston, D. Wolfe, 2016: Contrasting sea-ice and open-water boundary layers during melt and freeze-up seasons: Some result from the Arctic Clouds in Summer Experiment, European Geophysical Union General Assembly, 17-22 April 2016, Vienna, Austria.
197. Sotiropoulou, G., J. Sedlar, R. Forbes and MT, 2016: Arctic clouds in the ECMWF forecast model: an evaluation of cloud parameterization schemes, European Geophysical Union General Assembly, 17-22 April 2016, Vienna, Austria.
198. Weixler, K., A. Ekman, C. Hoose, M. Paukert, J. Sedlar, MT, 2016: Analyzing the dissipation of an Arctic mixed-phase cloud during the ASCOS field campaign. 17th International Conference on Clouds & Precipitation, 25 - 29 July 2016, Manchester, UK.
199. Igel, A.L., A.M.L Ekman, C. Leck, J. Savre, MT and J. Sedlar, 2016: The Free Troposphere as a Source of Arctic Boundary Layer Aerosol. European Aerosol Conference 2016, 4-9 September 2016, Tours, France.
200. Thornton, B., M. C. Geibel, J. Prytherch, I. M. Brooks, D. Salisbury, MT, I. Similetov, C.-M. Mörth, C. Humborg, and P. Crill, 2015: Methane isotopologues and eddy covariance fluxes above the mid and outer Laptev and East Siberian Seas during SWERUS-C3. XI. International Conference on Permafrost, 20 - 24 June 2016, Potsdam, Germany.
201. Weixler, K., A. Ekman, C. Hoose, M. Paukert, J. Sedlar, MT, 2016: Analyzing the dissipation of an Arctic mixed-phase cloud during the ASCOS field campaign. XVII International Conference on Clouds and Precipitation, 25-29 July, 2016, in Machester, UK.
202. Prytherch, J., I. M. Brooks, P. M. Crill, B. F. Thornton, D. J. Salisbury, MT, L. G. Anderson, M. C. Geibel, Humborg, 2017: Direct measurement of air-sea CO2 gas transfer velocity from an icebreaker in Arctic sea-ice regions. American Geophysical Union Fall Meeting, 12-16 December 2016, San Francisco, California, USA.

203. Persson, P. Ola G., B. W. Blomquist, P. S. Guest, I. M. Brooks, MT, A. A. Grachev, M. Shupe, and C. W. Fairall, 2017: Interactions between the atmospheric boundary layer and the advancing autumn sea ice. AMS 97th Annual Meeting, 23-26 February 2017, Seattle, Washington, USA.
204. MT, I. M. Brooks, J. Sedlar, M. Shupe, P. O. G. Persson, J. Prytherch, D. J. Salisbury, P. Achtert, B. J. Brooks, and G. Sotiropoulou, 2017: Summer Atmosphere Boundary-Layer Vertical Structure Downwind of the Ice Edge in on-Ice Advection. AMS 97th Annual Meeting, 23-26 February 2017, Seattle, Washington, USA.
205. Persson, P., B. Blomquist, C. Fairall, P. Guest, S. Stammerjohn, L. Rainville, J. Thomson, M. Smith, MT, A. Solomon, 2017: Arctic autumn air-ice-ocean interactions resulting from recent sea-ice decline. Arctic Science Summit Week, 31 March – 7 April, 2017, Prague, Czech Republic.
206. MT, I. Brooks, J. Sedlar, M. Shupe, O. Persson, J. Prytherch, D. Salisbury, P. Achtert, B. Brooks, G. Sotiropoulou, 2017: Warm-air advection and clouds over melting Arctic summer sea ice. European Geophysical Union General Assembly, 23-28 April 2017, Vienna, Austria.
207. MT, I. M. Brooks, J. Sedlar, M. Shupe, P. O. G. Persson, J. Prytherch, D. Salisbury, P. Achtert, B. Brooks and G. Sotiropoulou, 2017: Warm-air advection and clouds over melting Arctic summer sea ice. European Geophysical Union General Assembly, 23-28 April 2017, Vienna, Austria.
208. Persson, P. O. G., B. Blomquist, C. Fairall, P. Guest, S. Stammerjohn, L. Rainville, J. Thomson, M. Smith, MT, and A. Solomon, 2017: Arctic autumn air-ice-ocean interactions resulting from recent Sea-ice decline. European Geophysical Union General Assembly, 23-28 April 2017, Vienna, Austria.
209. Prytherch, J., I. M. Brooks, P. M. Crill, B. F. Thornton, D. J. Salisbury, MT, L. G. Anderson, M. C. Geibel, Humborg, 2017: Direct measurement of air-sea CO2 gas transfer velocity from an icebreaker in Arctic sea-ice regions. European Geophysical Union General Assembly, 23-28 April 2017, Vienna, Austria.
210. MT, I. M. Brooks, J. Sedlar, M. Shupe, P. O. G. Persson, J. Prytherch, D. Salisbury, P. Achtert, B. Brooks and G. Sotiropoulou, 2017: Interactions between summer warm-air advection, melting sea ice and low clouds. American Geophysical Union Fall Meeting, 11-15 December 2017, New Orleans, Louisiana, USA.
211. Igel, Al, L., A. Ekman, C. Leck, MT, J. Savre, and J. Sedlar, 2018: Boundary Layer Aerosol Sources and Cloud Interactions in the Summertime Remote Arctic. AMS 98th Annual Meeting, 7-11 January 2017, Austin, Texas, USA.

Books and book chapters

1. MT, G. Svensson, R. Sundararajan and P. Samuelsson, 2003: Mesoscale meteorology - is it important and can it be defined? in *Air pollution on regional scale*, D. Melas and D. Syrakov (Eds.), Kluwer Academic Publishers, Dordrecht.
2. MT, 2009: Varför skall vi tro på klimatmodeller? (*Why should we believe in climate models?* in Swedish and English), in "Osäkrat klimat", Johansson (ed.), Formas Publications.

Popular science papers (not peer-reviewed):

1. MT, 1998: SWECLIM Workshop on boundary-layer formulations and surface parameterizations. *SWECLIM Newsletter*, **2**.
2. MT, 1998: Under what conditions do soil water flow upward? *SWECLIM Newsletter*, **3**.
3. MT**,** 1999: Stratocumulus modeling in RCA/Hirlam, *SWECLIM Newsletter*, **5**.
4. MT, 2000: Alternativa klimat: Dynamisk nedskalning av två olika globala modellresultat (Alternative climates: Dynamic downscaling of two different global models, in Swedish), *SWECLIM Annual Report 1999*.
5. MT, 2000: Reflections from the PIRC/MERCURE meeting at DMI 22-25 May, 2000., *SWECLIM Newsletter*, **7+8**.
6. MT, 2000**:** Subprogram 1: Model development update, *SWECLIM Newsletter*, **9**.
7. MT, 2001: Dynamisk nedskalning av ERA-analyser och modellutveckling inom SWECLIM (Dynamical downscaling of ERA-analyses and model development in SWECLIM), *SWECLIM Annual Report 2000*.
8. MT, 2001: Model development and scenarios – or scenarios? *SWECLIM Newsletter*, **10**.
9. MT, 2001: Subprogram 1: Model development, *SWECLIM Newsletter*, **11**.
10. MT, 2002: Mot ett kopplat synsätt (*Towards a coupled approach*, in Swedish), *SWECLIM Annual Report 2001*.
11. MT and E. Erixon, 2002: The meteorological department of Stockholm University sailed north for the Arctic Ocean 2001 expedition, *Vaisala News*, **159**.
12. MT, 2002: Subprogram 1: Developing the models, *SWECLIM Newsletter*, **12**.
13. MT, and coauthors, 2003: Växthuseffekten, Klimat, Klimatförändringar, Klimatmodeller etc., Svenska Nationalencyklopedin (Greenhouse effect, Climate, Climate change, Climate models etc., in Swedish), *Swedish National Encyclopedia*.

14. MT and P. Samuelsson, 2003: Energibalans i klimatmodeller (*Energy balance in climate models*, in Swedish), *SWECLIM Annual Report 2002*.
15. MT, and C. Leck, 2003: Gränsskiktsmätningar under Arctic Ocean 2001 (Boundary layer measurements during Arctic Ocean 2001, in Swedish). *Polarfront*, **113**, 21 – 25.
16. MT and G. Svensson, 2004: Klimatet i Arktis - Förr och i framtiden (*Arctic climate - Past and future*, in Swedish), *Polarfront*, **115**, 5 – 9.
17. MT and G. Svensson, 2004: Det globala klimatet och det i Arktis – Är det någon skillnad, och kan vi lära oss något av den? (*Global and Arctic climate – Is there a difference and can we learn anything from it?* in Swedish). *Polarfront*, **117**, 21 - 24.
18. MT and G. Svensson, 2004: Arktis och det globala klimatet – vill lära oss något av det? (*Arctic and the global climate – Do we want to learn anything from it?* in Swedish). *Polarfront*, **119**, 5 - 8.
19. MT, 2005: Rätt och fel i klimatdebatten (*Right and wrong in the climate debate*, in Swedish). *Forskning och framsteg*, **2,** 19-20.
20. MT, 2005 - present: Svenska Nationalencyklopedin (*Swedish National Encyclopedia*., in Swedish), expert editor for climate in both on- and off-line versions of the encyclopedia.
21. MT, 2006: Hur skall klimat debatteras? (*How to discuss climate?* in Swedish). *Polarfront*, **124**, 28 - 31.
22. MT, 2007: Om klimatet… (*About the climate*…, in Swedish) *Polarfront*, **126**, 22 - 23.
23. MT, 2007-2008: Svenska Nationalencyklopedin (*Swedish National Encyclopedia*, in Swedish), expert editor for meteorology in a new three-band issue of the encyclopedia.
24. MT and C. Leck, 2008, Molnforskning i Arktis ska ge bättre klimatmodeller, *Knut och Alice Wallenbergs Stiftelse.*
25. MT and C. Leck, 2009, Arctic Summer Cloud Ocean Study, ASCOS. In the Swedish Polar Research Secretariat Annual Report 2009, 50-53, ISBN:978-91-973879-8-9.
26. MT, 2009: Varför skall vi tro på klimatmodeller? (*Why should we believe in climate models?* in Swedish and English), in "Osäkrat klimat", Johansson (ed.), Formas Publications.

Other publications

1. MT, Dahlquist, H. and Larsson, B., 1984.: Strålningsmätningar inom Lokalprognosprojektet 1981-1983 pa F6 och F13M (Radiation Measurements within the Local Forecasting Methods Development Group, in Swedish)., *Rep. LPP No* **4**, Swedish Airforce/Air Weather Service, Sweden.
2. MT, 1985.: Stralningsprocesser i Stratusmoln: Enkla parameteriseringar (Radiation Processes in Stratus Clouds: Simple parameterizations, in Swedish)., Report LPP No. 5, Swedish Airforce/Air Weather Service, Sweden.
3. Enger, L. and MT 1986.: Etude meteorologique et climatologique (Climatological Investigation - Mere Interieure, in French)., Rapport Definitif, Vol. 2, Etudes Preliminaires, Groupe Mixte Tuniso-Algerien, SWECO Avec Universite D'Uppsala, Uppsala, Suede.
4. MT, 1987: A three-dimensional meso-γ-scale model for studies of stratiform boundary layer clouds. A model description. Report No. 85, Dept. of Meteorology, Uppsala University, Uppsala, Sweden.
5. MT, 1988.: Parameteriseringar av strålningsprocesser i lokalprognosmetoder. Slutrapport. (Parameterizations of radiation processes within the Local Forecasting Methods Development Group. Final Report, in Swedish), Report LPP No. 10, Swedish Airforce/Air Weather Service, Sweden.
6. MT, 1988: A surface energy balance model with inclusion of vegetation for use in the MIUU Meso- -scale model. Report No. 86, Dept. of Meteorology, Uppsala University, Uppsala, Sweden.
7. MT, 1990: Om vatteninnehall i stratiforma gränsskiktsmoln, dess vertikala fördelning och troliga betydelse for horisontalsynvidd (On the water content of stratiform boundary layer clouds, its vertical distribution and likely impact on visibility, in Swedish). Report on assignment from SMHI for the investigation of a new international airport at Hurum, Norway.
8. MT, 1990: Some preliminary results from airborne meteorological measurements in a coastal region in Blekinge, 1989. Progress report from NFR-project G-GU 1775-300, Dept. of Meteorology, Uppsala University, Uppsala, Sweden.
9. Frech, M., Samuelsson, P., MT and A.M. Jochum, 1996: Boundary layer budgets over the NOPEX area, *DLR Institute fur Physik der Atmosphare*, Report **No. 51**, Oberpfaffenhofen, Germany.
10. MT, G. Svensson and R. Sundararajan, 1998: Numerical simulations of coastal atmospheric transport. *CAPMAN Annual Report 1998*, Eurotrac-2.
11. MT, G. Svensson, 2000: Numerical simulations of atmospheric transport processes and atmospheric chemistry in the coastal zone. *CAPMAN description*, Eurotrac-2 report.

12. Rummukainen, M., S. Bergström, E. Källén, L. Moen, J. Rodhe and MT. 2000. SWECLIM – the first three years. *SMHI Reports Meteorology and Climatology* **No. 94**, Swedish Meteorological and Hydrological Institute, Norrköping, Sweden, 87 pp.
13. Svensson, G., MT, M. Žagar, 2001: High-resolution modeling of atmospheric dispersion and turbulent transport in the coastal marine boundary layer. Eurotrac-2, *CAPMAN Annual Report 2000*, 30 - 35.
14. International Study on Arctic Change (ISAC), 2010: ISAC Science Plan and Implementation Strategy [Murray, M.S., L. Anderson, G. Cherkashov, C. Cuyler, B. Forbes, J.C. Gascard, C. Haas, P. Schlosser, G. Shaver, K. Shimada, MT, J. Walsh and J. Wandell, Z. Zhao], ed. M. S. Murray, ISAC International Program Office, Stockholm.
15. Vihma, T., J. Screen, MT, X. Zhang, V. Popova, B. Newton, C Deser, M. Holland, and T. Prowse, 2015: The Arctic atmospheric water cycle: processes, past and future changes, and their impacts, in the AMAP Fresh Water Initiative Assessment report.