

Ola Persson

PUBLICATIONS

Refereed Publications: Submitted.

- Uttal, T., S. Starkweather, J. Drummond, T. Vihma, C. J. Cox, E. Dlugokencky, J. Ogren, B. McArthur, L. Schmeisser, V. Walden, T. Laurila, L. Darby, A. P. Makshtas, J. Intrieri, J. F. Burkhart, T. Haiden, B. Goodison, M. Maturilli, M. Shupe, G. de Boer, R. Stone, A. Saha, A. Grachev, L. Bruhwiler, **O. Persson**, G. Lesins, S. Crepinsek, C. Long, S. Sharma, A. Massling, D. D. Turner, D. Stanitski, E. Asmi, M. Aurela, H. Skov, K. Eleftheriadis, A. Virkkula, A. Platt, E. Forland, J. Verlinde, I. Yoshihiro, I. E. Nielsen, M. Bergin, L. Candlish, N. Zimov, S. Zimov, N. O'Neil, P. Fogal, R. Kivi, E. Konopleva, V. Kustov, B. Vassel, Y. Viisanen, V. Ivakhov, 2015: International Arctic Systems for Observing the Atmosphere (IASOA): An International Polar Year Legacy Consortium. *Bull. Amer. Meteor. Soc.*, submitted.
- Dorsi, S. W., M. D. Shupe, P. O. G. Persson, D. E. Kingsmill, and L. M. Avallone, 2015: Phase-specific characteristics of wintertime clouds across a mid-latitude mountain range. *Mon. Wea. Rev.*, submitted
- Kingsmill, D. E., P. O. G. Persson, S. Haimov, and M. D. Shupe, 2015: Mountain waves and orographic precipitation in a northern Colorado winter storm. *Q. J. R. Meteor. Soc.*, submitted
- Tjernström, M., M. D. Shupe, I. M. Brooks, P. O. G. Persson, J. Prytherch, D. Sailsbury, J. Sedlar, P. Achtert, B. J. Brooks, P. E. Johnston, G. Sotiropoulou, D. Wolfe, 2015: Warm-air advection, air mass transformation and fog causes rapid ice melt, *Geophys. Res. Lett.*, submitted
- Gold, Anne U., Karin B. Kirk, Deb Morrison, Susan Lynds, Susan Buhr Sullivan, Andrey Grachev, Ola Persson, 2014: Arctic Climate Connections Curriculum – A model for bringing authentic data into the classroom. *J. Geoscience Ed.*, submitted

Refereed Publications: Published or accepted

2015:

- Carmack, E., I. Polyakov, L. Padman, I. Fer, E. Hunke, J. Hutchings, J. Jackson, D. Kelley, R. Kwok, C. Layton, H. Melling, D. Perovich, O. Persson, B. Ruddick, M.-L. Timmermans, J. Toole, T. Ross, S. Vavrus, and P. Winsor, 2014: Towards quantifying the increasing role of oceanic heat in sea ice loss in the new Arctic. *Bull. Amer. Meteor. Soc.*, in press
- Grachev, A. A., E. L. Andreas, C. W. Fairall, P. S. Guest, and P. O. G. Persson, 2014: Similarity theory based on the Doughert-Ozmidov length scale. *Quart. J. Roy. Meteor. Soc.*, doi:10.1002/qj.2488, in press

2014:

- Sotiropoulou, G., J. Sedlar, M. Tjernström, 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. *Atmos. Chem. Phys.*, **14**, 12573-12592, doi:10.5194/acp-14-12573-2014
- Solomon, A. S., M. D. Shupe, P. O. G. Persson, H. Morrison, T. Yamaguchi, P. M. Caldwell, and G. de Boer, 2014: The sensitivity of springtime Arctic mixed-phase stratocumulus clouds to surface layer and cloud-top inversion layer moisture sources. *J. Atmos. Sci.*, **71**, 574-595, doi:10.1175/JAS-D-13-0179.1. (February)
- Tjernström, M., C. Leck, C. Birch, B. Brooks, I. Brooks, L. Bäcklin, R. Chang, E. Granath, M. Graus, J. Heintzenberg, A. Held, A. Hind, S. de la Rosa Høhn, P. Johnston, J. Knulst, M. Westberg, G. de Leeuw, L. Di Liberto, M. Martin, P. Matrai, T. Mauritsen, M. Müller, S. Norris, M. Orellana, D. Orsini, J. Paatero, O. Persson, Q. Gao, C. Rauschenberg, Z. Ristovski, J. Sedlar, M. Shupe, B. Sierau, A. Sirevaag, S. Sjögren, O. Stetzer, E. Swietlicki, M. Szczodrak, P. Vaattovaara, N. Wahlberg, and C. Wheeler, 2012: The Arctic Summer Cloud-Ocean Study (ASCOS): Overview and experimental design. *Atmos. Chem. Phys.*, **14**, 2823-2869, doi:10.5194/acp-14-2823-2014.
- de Boer, G., Shupe, M. D., Caldwell, P. M., Bauer, S. E., Persson, O., Boyle, J. S., Kelley, M., Klein, S. A., and Tjernström, M., 2014: Near-surface meteorology during the Arctic Summer Cloud Ocean Study (ASCOS): evaluation of reanalyses and global climate models, *Atmos. Chem. Phys.*, **14**, 427-445, doi:10.5194/acp-14-427-2014.

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- Shupe, M. D., P. O. G. Persson, I. M. Brooks, M. Tjernström, J. Sedlar, T. Mauritsen, S. Sjögren, and C. Leck- 2013: Cloud and boundary layer interactions over the Arctic sea-ice in late summer. *Atmos. Chem. Phys.*, **13**, 9379-9399.

Grachev, A. A., E. L. Andreas, C. W. Fairall, P. S. Guest, and P. O. G. Persson, 2013: The critical Richardson number and limits of applicability of the local similarity theory in the stable boundary layer. *Bound.-Layer Meteor.*, **147** (1), 51-82, DOI 10.1007/s10546-012-9771-0.

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Persson, P. O. G., 2012: Onset and end of the summer melt season over sea ice: Thermal structure and surface energy perspective from SHEBA. *Clim. Dynamics*, **39**, 1349-1371, DOI: 10.1007/s00382-011-1196-9.

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Han, M., S. Braun, W. S. Olson, P. O. G. Persson, and J.-W. Bao, 2010: Application of TRMM PR and TMI measurements to assess cloud microphysical schemes in the MM5 model for a winter storm. *J. Appl. Meteor. and Climatology*, **49**, 1129-1148.

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Han, M., S. A. Braun, P. O. G. Persson, and J.-W. Bao, 2009: Along-front variability of precipitation associated with a midlatitude frontal zone: TRMM observation and MM5 simulation. *Mon. Wea. Rev.*, **137**(3), 1008-1028.

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Conference and Workshop Publications (Extended Abstracts, Posters)

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- Persson, O., B. Books, **M. Tjernström**, J. Sedlar, I. Brooks, M. Shupe, G. Björk, J. Prytherch, D. Salisbury, P. Achtert, G. Sotiropoulou, P. Johnston, and D. Wolfe, 2015: Atmosphere-ice-ocean interactions during early autumn freeze-up: Boundary-layer and surface observations from the ACSE field program. Poster EGU2015-7701 (B212), Session AS2.3 Boundary Layers in High Latitudes: Exploring Physics and Chemistry across Scales. *European Geophysical Union General Assembly*, Vienna, Austria, April 13-17.
- Tjernström, M.**, P. Achtert, B. Brooks, I. Brooks, P. Johnston, O. Persson, J. Prytherch, D. Salisbury, J. Sedlar, Ma. Shupe, G. Sotiropoulou, and D. Wolfe, 2015: Atmospheric observations during the Arctic Clouds in Summer

Experiment (ACSE). Poster EGU2015-11338 (B213), Session AS2.3 Boundary Layers in High Latitudes: Exploring Physics and Chemistry across Scales. *European Geophysical Union General Assembly*, Vienna, Austria, April 13-17.

Persson, O., **A. Grachev**, E. Konopleva, C. Cox, R. Stone, S. Crepinsek, M. Shupe, and T. Uttal, 2015: Processes impacting atmosphere-surface exchanges at Arctic terrestrial sites. Poster EGU2015-7546 (B208), Session AS2.3 Boundary Layers in High Latitudes: Exploring Physics and Chemistry across Scales. *European Geophysical Union General Assembly*, Vienna, Austria, April 13-17.

Grachev, A., T. Uttal, E. Konopleva-Akish, O. Persson, C. Fairall, S. Crepinsek, R. Albee, A. Makshtas, and I. Repina, 2015: Similarity in turbulent mixing and dissipation for scalars measured in Arctic at the Tiksi observatory. Poster EGU2015-7604 (B207), Session AS2.3 Boundary Layers in High Latitudes: Exploring Physics and Chemistry across Scales. *European Geophysical Union General Assembly*, Vienna, Austria, April 13-17.

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Salisbury, D. J., J. Prytherch, M. C. Tsamados, I. M. Brooks, B. J. Brooks, P. Achtert, J. Sedlar, M. Tjernström, G. Sotiropoulou, P. O. G. Persson, M. D. Shupe, P. Johnston, and D. Wolfe, 2015. Evaluating surface flux parameterizations over Arctic sea ice Poster presentation 86, High-Latitude Dynamics Workshop, 23-27 March, Rosendal, Norway.

Achtert, P., D. J. Salisbury, J. Prytherch, J. Sedlar, G. Sotiropoulou, M. Tjernström, B. J. Brooks, I. M. Brooks, M. D. Shupe, P. O. G. Persson, P. Johnston, and D. Wolfe. Observations of the Arctic boundary layer during ACSE 2014 Poster presentation 107, High-Latitude Dynamics Workshop, 23-27 March, Rosendal, Norway.

Prytherch, J., D. J. Salisbury, P. Achtert, J. Sedlar, G. Sotiropoulou, M. Tjernström, B. J. Brooks, I. M. Brooks, M. D. Shupe, P. O. G. Persson, P. Johnston, and D. Wolfe. Wave state and surface turbulent exchange over low fractional ice cover Poster presentation 106, High-Latitude Dynamics Workshop, 23-27 March, Rosendal, Norway.

2014:

Kirk, Karin B., Anne U. Gold, Deb Morrison, Susan Lynds, Susan Buhr Sullivan, Andrey Grachev, and Ola Persson, 2014: Arctic Climate Curriculum: Engaging high school students with authentic data in a flexible, relevant, and easy-to-use format. *Extended abstracts, Geological Society of America Fall Meeting*, Vancouver, BC, Oct 19-22.

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