

Ola Persson

Presentations

Conference and Workshop Presentations - Abstracts/Oral Only

2015:

Tjernström, M., M. Shupe, P. Achtert, B. Brooks, I. Brooks, P. Johnston, O. Persson, J. Prytherch, D. Salisbury, J. Sedlar, G. Sotiropoulou, and D. Wolfe, 2015: The "blob of death", or how warm air advection causes rapid ice melt. Presentation EGU2015-11895, 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., 2015: Atmospheric forcing of Arctic sea ice. Seminar, Institute of Geosciences, Gothenburg, University, Gothenburg, Sweden. March 30.

Persson, O., M. D. Shupe, M. Tjernström, 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. Presentation 129, High-Latitude Dynamics Workshop, 23-27 March, Rosendal, Norway.

Brooks, I. M., J. Prytherch, D. J. Salisbury, B. J. Brooks, P. Achtert, J. Sedlar, M. Tjernström, G. Sotiropoulou, P. O. G. Persson, M. D. Shupe, P. Johnston, and D. Wolfe, 2015: In situ measurements of surface exchange over the Arctic Ocean. Presentation 104, High-Latitude Dynamics Workshop, 23-27 March, Rosendal, Norway.

Solomon, A., O. Persson, J. Intrieri, 2015: Using RASM for short-term sea ice forecasting studies. Presentation, RASM Workshop, Boulder, CO, Jan. 30.

2014:

Persson, Ola P G, 2014: SeaState Daily Weather and Lessons from ACSE. Presentation at Planning Workshop for Sea State and Boundary Layer physics of the Emerging Arctic Ocean. Monterey, CA 13-14 Dec..

Uttal, T., M. Shupe, O. Persson, B. Blomqvist, and J. Intrieri, 2014: NOAA ESRL Physical Sciences Division Arctic Cruises and Science. Oral presentation at the Pacific Arctic Group Workshop, Seattle, WA, Nov 4.

Persson, Ola P G, 2014: Arctic clouds in summer (ACSE)/SWERUS: Atmospheric Structure, Objectives, and Observations. Seminar on board the R/V Oden, Sep. 17.

Persson, Ola, 2014: Marginal Ice Zone 2014 Observational Campaigns. Oral presentation, ONR SeaState Workshop, Boulder, CO June 6-7.

Persson, Ola, 2014: Arctic Boundary Layer Studies at CIRES/NOAA/PSD. Seminar given at Finnish Meteorological Institute, Helsinki, Finland, May 27, 2014.

Persson, Ola P G, 2014: MOSAiC: A Multidisciplinary drifting Observatory for the Study of Arctic Climate. Presented at the Workshop on Observations of Upper-ocean and Sea-ice interactions in the Eastern Arctic Ocean, April 24-25, Arlington, VA.

Persson, P. Ola G., C. Fairall, and B. Blomqvist, 2014: Surface-flux measurements in the North Atlantic or Modulation of Air-Sea Interactions by Extratropical Cyclones. Oral presentation, Workshop on Iceland Sea project, Akureyri, Iceland Mar 25-27.

Persson, Ola P. G. and Andrey Grachev, 2014: Arctic Climate Field Research. Seminar given at the Arctic Climate Connections Workshop for K-12 teachers. Feb 22, University of Colorado, Boulder, CO.

2013:

Persson, Ola P G , and Amy Solomon, 2013: Impacts of leads on the wintertime sea-ice environment using 1D and 3D models validated with in-situ observations. Abstract, AGU Fall Meeting, C017. Modeling of the Cryosphere: Energy- and Mass Balance of Snow, Ice and permafrost, San Francisco, CA, Dec. 9-13.

Shupe, Matthew D, Ola P. G. Persson, Amy Solomon, and Gijs de Boer, 2013: Arctic cloud-driven mixed layers and surface coupling state. Abstract, AGU Fall Meeting, A052. Observing and Modeling Atmospheric Vertical Motion, San Francisco, CA, Dec. 9-13.

Uttal, T., A. Grachev, A. P. Makhstas, I. Repina, Ola P. G. Persson, Tuomas J A Laurila, and Sara Crepinsek, 2013: Measurements of physical and gas exchanges between the atmosphere and surface at the Tiksi Hydrometeorological Observatory. Abstract, AGU Fall Meeting, C021. Physical and Chemical Air-Snow-Ice Interactions: from the Micro to the Global Scale, San Francisco, CA, Dec. 9-13.

- Crepinsek, Sara**, T. Uttal, Carlos Sandoval, Ola P. G. Persson, and Andrey Grachev, 2013: Comparison of heat flux measurements and calculations at an Arctic Site. Abstract, AGU Fall Meeting, C017. Modeling of the Cryosphere: Energy- and Mass Balance of Snow, Ice and permafrost, San Francisco, CA, Dec. 9-13.
- Uttal, T., A. Grachev, I. Repina, O. Persson, J. Key, and **W. Neff**, 2013: An observational Arctic flux network supporting the International Arctic Systems for Observing the Atmosphere (IASOA) and Global Cryosphere Watch (GCW). Presentation, Davos Atmosphere and Cryosphere Assembly, Davos, Switzerland, July 8-12.
- Solomon, A.**, M. D. Shupe, P. O. G. Persson, H. Morrison, T. Yamaguchi, G. Feingold, and G. deBoer, 2013: The sensitivity of springtime Arctic mixed-phase stratocumulus clouds to surface layer and cloud-top inversion layer moisture sources. *Gordon Conf. on Radiation and Climate*, Colby-Sawyer College, New London, NH July 6-12.
- Persson, O., M. Shupe, A. Solomon, G. deBoer, and M. Tjernström, 2013: Observations and modeling of polar clouds: Cloud links with Arctic synoptic/mesoscale “weather” and surface conditions. Invited paper, ECMWF-WWRP/THORPEX Workshop on Polar Prediction, Reading, UK, June 24-27, 2013.
- Shupe, M., O. Persson, and A. Solomon, 2013: Arctic cloud-driven mixed layers and surface coupling state. Oral presentation, *12th Conf. on Polar Meteor. and Ocean.*, Seattle, WA Apr 29-May 1.
- Solomon, A.**, M. D. Shupe, P. O. G. Persson, H. Morrison, T. Yamaguchi, G. Feingold, and G. deBoer, 2013: The sensitivity of springtime Arctic mixed-phase stratocumulus clouds to surface layer and cloud-top inversion layer moisture sources. Oral presentation, *DOE ASR Science Team Meeting*, Potomac, MD March 18-21.
- Shupe, M., O. Persson, A. Solomon, and G. deBoer, 2013: Arctic cloud-driven mixed layers and surface coupling state. DOE ASR Science Team Meeting, Potomac, MD Mar 18-21.
- Persson, O., 2013: Atmospheric fluxes to the ocean and sea ice: Quantifying the forcing. Invited Presentation, Untersteiner Workshop on the Role of Ocean Heat Flux in Sea Ice Melt. Univ. Alaska Fairbanks, Fairbanks, AK, Mar 19-21.
- 2012:**
- Shupe, M., O. Persson, M. Tjernström, and K. Dethloff, 2012: MOSAiC: Multidisciplinary drifting Observatory for the Study of Arctic Climate. Abstract C44A-05 presented at 2012 Fall Meeting, San Francisco, Calif., USA, 3-7 Dec.
- Solomon, A., M. Shupe; O. P. Persson, H. Morrison, T. Yamaguchi, G. Feingold, and G. de Boer, 2012: The maintenance of decoupled Arctic stratocumulus. Abstract A31G-01 presented at 2012 Fall Meeting, San Francisco, Calif., USA, 3-7 Dec.
- Persson, O.**, R. S. Stone, A. Grachev, and L. Matrosova, 2012: Processes affecting the annual surface energy budget at high-latitude terrestrial sites in the Canadian Arctic. Presentation at the First Tiksi Science Meeting, St. Petersburg, Russia, Sep. 18-20.
- Persson, O., M. Shupe, M. Tjernstrom, K. Dethloff, and D. Perovich, 2012: The proposed Multidisciplinary drifting Observatory for Studies of Arctic Climate (MOSAiC). Invited seminar given at the Arctic and Antarctic Research Institute, St. Petersburg, Russia, Sep. 17.
- Solomon, A., M. Shupe; O. P. Persson, H. Morrison, T. Yamaguchi, G. Feingold, and G. de Boer, 2012: The maintenance of decoupled Arctic stratocumulus: ISDAC ‘Golden Days’ 8 and 27 April. Presented at *1st Pan-Global Atmospheric System Studies Conference*, Boulder, CO Sep 10.
- Solomon, A., M. Shupe, O. Persson, H. Morrison, 2012: The maintenance of decoupled Arctic stratocumulus. *Workshop on Atmospheric Model Parameterizations in the Polar Regions*, July 7, Boulder, CO.
- Persson, O.**, 2012: The disappearing Arctic sea ice: Need for understanding Arctic process interactions and a science driver for MOSAiC. Presentation, *MOSAiC Science Planning Workshop*, June 27-29, Boulder, CO. [<http://www.mosaicobservatory.org/science-planning-workshop.html>].
- Persson, P. O. G.**, 2012: Using remote sensing observations for understanding variability of Arctic surface energy fluxes. 16th International Symposium for the Advancement of Boundary-Layer Remote Sensing (ISARS), Boulder, CO, June 5-8.
- Persson, P. O. G.**, R. S. Stone, A. Grachev, and L. Matrosova, 2012: Processes affecting the annual surface energy budget at high-latitude terrestrial sites. Oral presentation, *IPY 2012 Conference*, Montreal, 22-27 April, 2012. Session 1.2.1 Atmospheric, physical and chemical processes in the polar regions. Oral presentation, *IPY 2012 Conference*, Montreal, 22-27 April, 2012.

- Shupe, M.,** O. Persson, A. Solomon, I. Brooks, and G. Canut, 2012: Turbulence profiles and cloud-surface coupling in Arctic stratiform clouds. Oral presentation, *IPY 2012 Conference*, Montreal, 22-27 April, 2012. Session 1.2.1 Atmospheric, physical and chemical processes in the polar regions.
- Persson, P. O. G.,** and A. Solomon, 2012: Melt transition processes and trends over Arctic sea ice. Oral presentation, *IPY 2012 Conference*, Montreal, 22-27 April, 2012. Session 1.2.1 Atmospheric, physical and chemical processes in the polar regions
- Solomon, A.,** M. D. Shupe, P. O. G. Persson, and H. Morrison, 2012: The role of cloud-top humidity inversions in the maintenance of Arctic mixed-phase stratocumulus. Oral presentation, *IPY 2012 Conference*, Montreal, 22-27 April, 2012. Session 2.5.5 Improved projections and forecasts from climate and weather models.
- Tjernström, M.,** I. M. Brooks, C. E. Birch, G. Canut, P. O. G. Persson, M. D. Shupe, T. Mauritsen, and J. Sedlar, 2012: Central summer Arctic low-level cloud and boundary-layer processes.. Oral presentation, *IPY 2012 Conference*, Montreal, 22-27 April, 2012. Session 1.5.2 Polar observing systems, including observations from space.
- de Boer, G.,** P. O. G. Persson, and M. D. Shupe, 2012: Understanding the impact of Arctic cloud regimes on the surface energy budget: Observations from IPY and beyond. Oral presentation, *IPY 2012 Conference*, Montreal, 22-27 April, 2012. Session 1.5.2 Polar observing systems, including observations from space.
- Shupe, M.,** O. Persson, A. Solomon, I. Brooks, and G. Canut, 2012: Turbulence profiles and cloud-surface coupling in Arctic stratiform clouds. DOE, Atmospheric System Research Workshop, March 19-22.
- deBoer, G.,** A. Solomon, O. Persson, M. Shupe, 2012: Linking atmospheric state to Arctic cloud cover and radiative budget. WCRP CMIP5 Workshop, Honolulu, HI, March 5-9,2012.
- 2011:**
- Persson, O.,** A. Solomon, M. Shupe, and H. Morrison, 2011: Arctic process studies using a fine-resolution WRF. Oral presentation, *WRF Polar Workshop*, Byrd Polar Institute, Columbus, OH, Nov. 2-3, 2011.
- Persson, P. O. G.,** 2011: Proposed Arctic field program. Invited presentation at *Climate and Cryosphere (CLiC) Meeting*, Boulder, CO Nov. 1, 2011.
- Persson, P. O. G.,** and M. Shupe, 2011: AIDA Measurement Design. Presentation at *IASC Workshop on an Arctic Drifting Observatory*, Potsdam, Germany Sep. 26-27.
- Persson, P. O. G.,** 2011: Selected atmosphere, boundary-layer, ice, and ocean interactions from SHEBA and elsewhere. Presentation at *IASC Workshop on an Arctic Drifting Observatory*, Potsdam, Germany Sep. 26-27.
- Persson, P. O. G.,** A. Solomon, and A. Sirevaag, 2011: Onset and end of the summer melt season over sea ice: Observations of thermal structure, surface energy fluxes, and synoptic influence. Presentation 4.8, *11th Conf. on Polar Meteorology and Oceanography.*, Boston, MA May 2-5.
- Solomon, A.,** M. Shupe, P. O. G. Persson, and H. Morrison, 2011: Maintenance of springtime Arctic mixed-phase stratocumulus in nested LES simulations. Presentation 6.6, *11th Conf. on Polar Meteorology and Oceanography.*, Boston, MA May 2-5.
- 2010:**
- Persson, P. O. G.,** 2010: The ASCOS/AMISA Field Program: A Template for Needed Arctic Research. Presentation at Raytheon, Nov. 18.
- Solomon, A.,** M. Shupe, O. Persson, H. Morrison, and J.-W. Bao, 2010: Mesoscale simulations of Arctic mixed-phase stratocumulus observed during the M-PACE and ISDAC campaigns. Seminar, Texas A&M University, College Station, TX, Oct 5.
- Persson, P. O. G.,** A. Solomon, M. Shupe, H. Morrison, J. Maslanik, and C. Birch, 2010: Interactions in the cloud-atmospheric boundary layer-surface (CAS) system over Arctic sea ice in observations and WRF simulations. Oral presentation, 17th Conference on Air-Sea Interaction, Sep. 27-Oct. 1, Annapolis, MD
- Persson, P. O. G.,** A. Solomon, M. Shupe, H. Morrison, and C. Birch 2010: Impacts of cloud microphysics and surface characteristics on the Arctic cloud-atmospheric boundary layer-surface (CAS) system in observation and WRF simulations. Oral presentation, 19th Symp. Boundary Layers and Turbulence, 2-6 August, Keystone, CO
- Grachev, A.,** E. Andreas, C. Fairall, P. Guest, and O. Persson, 2010: Outlier problem for gradient-based scaling in the stable boundary layer. *Presentation, Symp. On Boundary Layers and Turbulence*, Keystone, CO, Aug. 2-6.

- Shupe, M.,** O. Persson, T. Mauritsen, and I. Brooks, 2010: Dynamical-microphysical interactions in Arctic mixed-phase clouds. Presentation, *13th Conf. on Cloud Physics and Atmospheric Radiation*, American Meteorological Society, Portland, OR, June 28 - July 2.
- Sedlar, J.,** M. Tjernström, T. Mauritsen, I. Brooks, C. Birch, M. Shupe, A. Sirevaag, P. O. G. Persson, and C. Leck, 2010: The Arctic energy budget transition from summer melt to autumn freeze-up: Cloud radiative forcing. Presentation, *International Polar Year Science Conference*, Oslo, Norway, 8-12 June.
- Gasiewski, A. J.,** A. Chaturvedi, E. McIntyre, D. Kraft, O. Persson, M. Tjernstrom, M. Beaubian, and W. Jeffries, 2010: Use of a new generation of dropsondes during the 2008 Arctic Mechanisms of Interaction Between the Surface and Atmosphere (AMISA) campaign. Presentation, *International Polar Year Science Conference*, Oslo, Norway, 8-12 June.
- Martin, P.,** A. J. Gasiewski, O. P. G. Persson, 2010: Classification Of Sea Ice Video Imagery During AMISA08. Presentation, *International Polar Year Science Conference*, Oslo, Norway, 8-12 June.
- Gasiewski, A. J.,** E. McIntyre, D. Kraft, O. Persson, V. Leusky, M. Tjernstrom, M. Tian and A. Chaturvedi, 2010: Radiometric observations of the Arctic environment during the 2008 Arctic Mechanisms of Interaction Between the Surface and Atmosphere (AMISA) Campaign. Presentation, *International Polar Year Science Conference*, Oslo, Norway, 8-12 June.
- Persson, P. O. G., M. Shupe, E. Sukovich, B. J. Brooks, I. M. Brooks, T. Mauritsen, J. Sedlar, **M. Tjernström**, and A. Gasiewski, 2010: Observations of Arctic clouds, boundary-layer structure, and surface energy fluxes during the 2008 ASCOS/AMISA field programs. Presentation, *International Polar Year Science Conference*, Oslo, Norway, 8-12 June.
- Persson, P. O. G., 2010: Sea-Ice Forecasting and the Cloud - Atmospheric Boundary Layer – Surface (CAS) System, *Workshop on Sea Ice Forecasting, Boulder, Colorado, May 11-12*
- Persson, P. Ola G.,** 2010: Arctic Research: A Check-up for the Canary in the Coal Mine. Lecture presented at Foxdale Retirement Community, State College, PA, March 29, 2010..
- Persson, P. O. G., **A. Grachev**, C. Fairall, I. M. Brooks, T. Mauritsen, C. Birch, J. Sedlar, M. Tjernstrom, A. Solomon, and C. Wheeler, 2010: Turbulent and radiative fluxes over Arctic sea ice: Measurements, interactions, and comparisons to models. Oral presentation, *CLIVAR Workshop on High Latitude Surface Fluxes*, Boulder, CO, 17-19 March.
- Persson, P. O. G.,** and R. Stone, 2010: Mesoscale Influences on Climate-Change Observations at an Arctic Site. Oral presentation, *2010 State of the Arctic Conference*, Miami, FL, 16-19 March.
- Persson, P. O. G.,** 2010: Proposed Studies with the ASCOS Data. Oral presentation at the ASCOS 3rd Post-Field Program Workshop., Stockholm, Sweden, March 3-6.
- Persson, P. O. G.,** 2010: "The Cloud-Atmospheric Boundary Layer-Surface (CAS) System Over Arctic Sea Ice: Interactions in Observations and Models". Invited seminar presented at the Alfred Wegener Institute, Potsdam, Germany, March 1.
- Smith, L., J. Hare, O. Persson, C. Fairall, S. Buhr, S. Lynds and M. McCaffrey, 2010: Reaching out to scientists: A model for integrating scientists' research into teacher professional development. AGU/ASLO/TOS Ocean Sciences Meeting, Portland, OR, Feb. 22-26.
- 2009:**
- Persson, P. Ola G.,** 2009: Arctic Field Research. Lecture presented at Frasier Meadows Nursing Home, Boulder, CO. November 21, 2009.
- Persson, P. Ola G.,** M. Shupe, M. Tjernström, I. M. Brooks, R. Stone, 2009: (New) Observing methods for the Arctic atmosphere. Invited Presentation, Session 5, *DAMOCLES International Symposium on the Arctic Climate System*, Brussels, 10-12 November, 2009.
- Persson, P. Ola G.,** A. Solomon, M. Shupe, J.-W. Bao, and H. Morrison, 2009: Impact of synoptic and mesoscale disturbances on the end of the summer melt season over sea ice. Presentation J14.8, *MOCA-09, AIMS/AISPO/AICS 2009 Joint Assembly*, Montreal, Canada, July 20-29.
- Persson, P. Ola G.,** A. Solomon, M. Shupe, H. Morrison, E. L. Andreas, and J-W. Bao, 2009: Impacts of improved cloud microphysics and surface flux schemes on WRF simulations in the Arctic. Presentation J02.6, *MOCA-09, AIMS/AISPO/AICS 2009 Joint Assembly*, Montreal, Canada, July 20-29.
- Persson, P. Ola G.,** V. Leuski, M. Shupe, M. Tjernström, and I. M. Brooks, 2009: High-temporal resolution observations of the thermal and kinematic vertical structure in the Arctic boundary-layer during the

Arctic Summer Cloud-Ocean Study (ASCOS). Presentation J14.10, *MOCA-09, AIMS/AISPO/AICS 2009 Joint Assembly*, Montreal, Canada, July 20-29.

- Brooks, I. M.**, M. Tjernström, C. Leck, P. O. G. Persson, M. Shupe, C. E. Birch, B. J. Brooks, T. Mauritsen, J. Sedlar, A. Sirevaag, S. Norris, and P. Matrai, 2009: The Arctic Summer Cloud-Ocean Study – ASCOS. Oral presentation, *United Kingdom Arctic Science Conference*, July 13-15, Southampton, UK.
- Persson, P. O. G.**, E. Sukovich, A. Gasiewski, B. J. Brooks, A. Chaturvedi, M. Shupe, and M. Tjernström, 2009: Aircraft observations during the ASCOS/AMISA field program: Overview of the synoptic/mesoscale environment, boundary-layer structure, and cloud microphysics. Presentation 10.3, *10th Polar Meteorology and Oceanography Conference*, Madison, WI, May 18-21.
- Persson, P. O. G.**, V. Leuski, M. Shupe, I. M. Brooks, and M. Tjernström, 2009: High-temporal resolution observations of the thermal and kinematic vertical structure in the Arctic boundary layer during ASCOS. Presentation 9.4, *10th Polar Meteorology and Oceanography Conference*, Madison, WI, May 18-21.
- Shupe, M.**, O. Persson, P. Johnston, C. Wheeler, M. Tjernström, 2009: Surface-based remote-sensing of clouds during ASCOS. Presentation 10.1, *10th Polar Meteorology and Oceanography Conference*, Madison, WI, May 18-21.
- Gasiewski, A.**, E. McIntyre, D. M. Kraft, O. Persson, V. Leuski, M. Tjernström, M. Tian, and A. Chaturvedi, 2009: Radiometric observations of the Arctic environment during the 2008 Arctic Mechanisms of Interaction between the Surface and the Atmosphere (AMISA) campaign. Presentation 10.4, *10th Polar Meteorology and Oceanography Conference*, Madison, WI, May 18-21.
- Gasiewski, A.**, A. Chaturvedi, E. McIntyre, D. M. Kraft, O. Persson, M. Tjernström, M. Beaubien, and W. Jeffries, 2009: Use of a new generation of dropsondes during the 2008 Arctic Mechanisms of Interaction between the Surface and the Atmosphere (AMISA) campaign. Presentation 10.5, *10th Polar Meteorology and Oceanography Conference*, Madison, WI, May 18-21.
- Birch, C. E.**, I. M. Brooks, S. F. Milton, P. Earnshaw, M. Tjernström, and O. Persson, 2009: An evaluation of the U. K. Met Office Unified Model over the central Arctic Ocean during ASCOS. Presentation 10.6, *10th Polar Meteorology and Oceanography Conference*, Madison, WI, May 18-21.
- Persson, P. O. G.**, J.-W. Bao, M. Shupe, C. Wheeler, A. A. Grachev, and C. W. Fairall, 2009: Process relationships useful for evaluating model performance in the Arctic. Presentation 14.4, *10th Polar Meteorology and Oceanography Conference*, Madison, WI, May 18-21.
- Solomon, A. B.**, M. Shupe, O. Persson, H. Morrison, and J. W. Bao, 2009: The radiative and dynamical impact of aerosols on mixed-phase clouds observed during ISDAC and M-PACE. Presentation 14.8, *10th Polar Meteorology and Oceanography Conference*, Madison, WI, May 18-21.
- Persson, Ola**, 2009: The Disappearing Arctic Sea Ice and the Role of the Atmosphere. Lecture for the Scientist Lecture Series for the Colorado Collaborative and part of the Center for Ocean Sciences Education Excellence (COSEE) West. May 9, University of Colorado, Boulder, CO.
- Persson, P. O. G.**, E. Sukovich, V. Leuski, A. Gasiewski, D. Cavalieri, and A. Chaturvedi, 2009: Integrating AMISA/ASCOS data to obtain a meteorological perspective of the AMISA DC-8 flights. Presentation, *First ASCOS Workshop*, Lund, Sweden, March 30-April 3.
- Persson, P. O. G.**, A. J. Gasiewski, A. Chaturvedi, and E. Sukovich, 2009: The 2008 Arctic Mechanisms of Interaction Between the Surface and Atmosphere (AMISA) campaign: Observation summary and data processing update. Presentation, *First ASCOS Workshop*, Lund, Sweden, March 30-April 3.
- Shupe, M., **O. Persson**, P. Johnston, and D. Hazen, 2009: Clouds during ASCOS. Presentation, *First ASCOS Workshop*, Lund, Sweden, March 30-April 3.
- 2008:**
- Persson, P. O. G., A. Solomon, M. Shupe, and A. Gasiewski, 2008: Arctic storms and their links to surface energy budget changes at the onset and end of the summer melt season over pack ice. Presentation at *AGU Session on Extratropical and High-Latitude Storms: Synoptic-scale Perspective and Links to Climate Variability, Change, and Impact*, San Francisco, CA, Dec. 19.
- Morrison, Hugh, P. Zuidema, G. McFarquhar, A. Solomon, M. Shupe, O. Persson, and J.-W. Bao, 2008: Observations and modeling of snow microphysics in Arctic mixed-phase clouds. *Proceedings, Conference on Arctic Change 2008*, Quebec City, Canada, 9-12 December.
- Andreas, E. L., A. A. Grachev, C. W. Fairall, P. O. G. Persson, P. S. Guest, T. W. Horst, and R. E. Jordan, 2008: A new bulk flux algorithm to predict turbulent surface fluxes over summer sea ice and the marginal ice zone.

Abstracts, 8th Annual Meeting of the European Meteorological Society, Amsterdam, The Netherlands, 29 September–3 October, [Available at www.cosis.net/abstracts/EMS2008/00090/EMS2008-A-00090-1.pdf].

Andreas, E. L., P. O. G. Persson, and J. E. Hare, 2008: A bulk turbulent air-sea flux algorithm for high-wind, spray conditions. *Abstracts, 8th Annual Meeting of the European Meteorological Society, Amsterdam, The Netherlands, 29 September–3 October, [Available at www.cosis.net/abstracts/EMS2008/00037/EMS2008-A-00037-1.pdf].*

Persson, P. O. G., A. Solomon, A., M. Shupe, H. Morrison, and J.-W. Bao, 2008: Effect of microphysical parameterization on the simulation of high-latitude surface energy budget and boundary-layer structure. Presentation 13B.6, 18th Symposium on Boundary Layers and Turbulence, Stockholm, Sweden, 9-13 June. [Available at <http://ams.confex.com/ams/htsearch.cgi>].

Grachev, A., E. L. Andreas, C. W. Fairall, P. S. Guest, and P. O. G. Persson, 2008: Small-scale turbulence in very stable atmospheric conditions. Presentation 4.4, 18th Symposium on Boundary Layers and Turbulence, Stockholm, Sweden, 9-13 June 2008. [Available at <http://ams.confex.com/ams/htsearch.cgi>].

Solomon, A., O. Persson, M. Shupe, H. Morrison, J.-W. Bao, 2008: Validating WRF for mesoscale Arctic climate studies. Presentation, Arctic System Model Workshop, Boulder, Colorado, May 19-21.

Bromwich, D., O. Persson, and J. Cassano, 2008: Atmospheric observational needs for model validation. Presentation, Arctic System Model Workshop, Boulder, Colorado, May 19-21.

Solomon, A., O. Persson, M. Shupe, H. Morrison, and J.-W. Bao, 2008: Effect of microphysical parameterization on the simulation of high-latitude surface energy budget and boundary-layer structure. Presentation AS2.04-1, Conference on High Latitude Boundary Layers at the European Geophysical Union Meeting. Vienna, Austria, April 14-18.

Grachev, A. A., P. O. G. Persson, C. W. Fairall, and T. Uttal, 2008: Boundary-layer measurements and surface fluxes at study of environmental Arctic change (SEARCH) sites in Northern Canada. Poster, Conference on High Latitude Boundary Layers at the European Geophysical Union Meeting. Vienna, Austria, April 14-18.

Grachev, A., E. Andreas, C. Fairall, P. Guest, and O. Persson, 2008: Gradient-based z-less similarity in the stable atmospheric boundary layer (the SHEBA data). Poster, Conference on High Latitude Boundary Layers at the European Geophysical Union Meeting. Vienna, Austria, April 14-18.

Persson O., and R. Stone, 2008: Two years of high-resolution surface energy budget measurements at the Alert SEARCH site: Atmosphere-snow-soil interactions. Presentation in Session AS2.04, Conference on High Latitude Boundary Layers at the European Geophysical Union Meeting. Vienna, Austria, April 14-18.

Persson, P. O. G., M. Shupe, J. Jordan, P. Johnston, C. Wheeler, and M. Tjernstrom, 2008: Remote sensing by CIRES/NOAA at ASCOS. Presentation, ASCOS Planning Workshop, Landskrona, Sweden, April 8-10.

2007:

Solomon, A., O. Persson, M. Shupe, H. Morrison, and J.-W. Bao, 2007: Mesoscale simulations of polar clouds during M-PACE. Poster presented at CMOS-CGU-AMS Congress 2007, Polar Clouds and Aerosols: Properties, Processes, and Climatic Significance (A06).

Persson, O., 2007: "Regional Climate Modeling", ESRL Review of the Regional and Local-Scale Assimilation and Modeling Theme, NOAA Earth System Research Laboratory, October 4, Boulder, CO.

Persson, O., 2007: "Arctic Boundary Layers and Clouds", Panelist for ESRL Review of the Boundary Layer Theme, NOAA Earth System Research Laboratory, May 10, Boulder, CO.

Grachev, A., E. Andreas, C. Fairall, P. Guest, and O. Persson, 2007: Influence of stability on the turbulent Prandtl number in the stable atmospheric boundary layer. *Abstracts, European Geophysical Union Meeting, Session AS2.04: Boundary Layers in High Latitudes: Observations and Modeling* Vienna, Austria, April 15-20.

2006:

Persson, O., 2006: Invited panel member for session on "Climate Change in the Arctic –A Bellwether for the Planet?", NOAA Earth System Research Laboratory Dedication Topical Review "Serving Society Through Science", August 23-24, Boulder, CO.

Persson, O., 2006: "Pack Ice Energy Budget: Relationship to Atmospheric Structure and Impact on Pack Ice Mass Balance". Presentation at Global Hawk Instruments Meeting, July 27, Boulder, CO.

Persson, O., R. Stone, M. Shupe, and T. Uttal, 2006: "Investigating Interactions of Surface Energy Budget, Boundary Layer Structure, and Synoptic/Orographic Influences at Climate Monitoring Observatories for the Study of Environmental Arctic Change (SEARCH)". Presentation at NOAA/Global Monitoring Division Science Review, Boulder, CO, April 26-28.

Persson, O., R. Stone, M. Shupe, and T. Uttal, 2006: Investigating Interactions of Surface Energy Budget, Boundary Layer Structure, and Synoptic/Orographic Influences at Climate Monitoring Observatories for the Study of Environmental Arctic Change (SEARCH). *Abstracts, European Geophysical Union Meeting*, Vienna, Austria, April 2-7.

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- Persson, O., J.-W. Bao, S. Michelson, P. Neiman, M. Ralph, and B. Walter 2000: Critical verification of synoptic/mesoscale structures and processes in MM5 during CALJET. Presentation at the Northwest Weather Workshop 2000, Seattle, WA, 4-5 Feb.

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- Persson, O., 1999: P-3 Flight-level Observations of the Low-level Jet Region of February 2-3. Presented at the 2nd CALJET Workshop, May 24-25, Monterey, CA.
- "A First Look at the Annual Surface Energy Budget at SHEBA." NOAA Environmental Technology Weekly Seminar, David Skaggs Building, May 17, 1999.
- "P-3 Flight-level Observations of the Low-level Jet Region on February 2-3, 1998". CALJET Workshop, Monterey, CA, May 24-25, 1999.
- "Summertime Measurements of the Arctic Boundary Layer during SHEBA". Invited talk at the preparation workshop for the 2001 Scandinavian Arctic Research Program. Tampere, Finland, April 28, 1999.
- "A Year on the Arctic Ice: Atmospheric and Surface Measurements for Understanding the Annual Surface Energy Budget at SHEBA". Invited seminar at the Meteorological Institute at Stockholm University, April 26, 1999.
- "A Year on the Ice: NOAA/ETL Contributions to the SHEBA Project." Inaugural seminar in the Dr. C. Gordon Little Conference Room, David Skaggs Research Center, Boulder, CO, April 5, 1999.
- "Observations of Atmospheric Structure and Fluxes." Invited talk at the *SHEBA/FIRE Workshop*, Jan. 25-28 1999, Tucson, AZ.
- Andreas, E. A., C. W. Fairall, P. S. Guest, and P. O. G. Persson, 1999: Comparing eddy-correlation and scintillometer measurements of momentum and sensible heat fluxes during SHEBA. Poster at Fifth Conf. on Polar Meteor. And Ocean., Jan. 10-15, 1999, Dallas, TX.
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- Persson, P. O. G., F. M. Ralph, M. A. Shapiro, 1997: Simulation of the low-level structure of the Dec. 11-13, 1995 storm. Presented at the *Coastal Observation and Simulation with Topography (COAST) Workshop*, Dec. 18, 1996, San Francisco, CA.
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- Ralph, F. M., P. J. Neiman, P. O. G. Persson, and J. M. Bane, 1996: Evidence of solitary Kelvin waves on the marine boundary layer inversion and their relationship to coastally trapped wind reversals. *Abstracts, Fall 1996 meeting of the American Geophysical Union*, December 17-20, San Francisco, CA.
- Persson, P. O. G., J. Wilczak, J.-W. Bao, 1996: Mesoscale modeling at the Environmental Technology Laboratory. Presented at *First Workshop on NOAA Atmospheric Modeling*. May 1-2, Research Triangle Park, NC.
- 1995:**
- Persson, P. Ola G., J.-W. Bao, and Stephen D. Burk, 1995: Tests of the Burk-Thompson PBL scheme. *Abstracts, Fifth PSU/NCAR Mesoscale Model Users Workshop*, Aug. 14-16, 1995, Boulder, CO, 117-119.
- Jian-Wen Bao, Jimy Dudhia, P.O.G. Persson, and Georg Grell, 1995: Implementation of the Burk-Thompson PBL Scheme in MM5. *Abstracts, Fifth PSU/NCAR Mesoscale Model Users Workshop*, Aug. 14-16, 1995, Boulder, CO, 115-116.
- 1994:**
- Persson, P. Ola G., 1994: Hydrostatic and nonhydrostatic simulations of unforced conditional symmetric instability. *Abstracts, Fourth PSU/NCAR Mesoscale Model Users Workshop*, Aug. 29 - Sep. 1, 1994, Boulder, CO, p. 71.

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Burk, S., and P. Ola G. Persson, 1993: Modeling the Arctic springtime diurnal surface energy cycle and boundary layer evolution. *Abstracts, Nansen Centennial Symposium*, Solstrand-Bergen, Norway, June 21-25, 1993.

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Persson, P. Ola G. and Thomas T. Warner, 1989: Numerical modelling considerations for the simulation of circulations associated with conditional symmetric instability. *Abstracts, Symp. Mesoscale Phenomena: Analysis and Forecasting*, 31 July - 12 Aug. 1989, Reading, UK, MF.53.

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