

Curriculum Vitae

DAVID A. BRAATEN

Professor

Geography Department
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Education

Ph.D., Atmospheric Science 1988, University of California - Davis.

Dissertation Title: *Particle resuspension and associated coherent structures in a turbulent boundary layer.*

M.S., Meteorology 1981, San Jose State University, San Jose, California.

Thesis Title: *Long range transport of visibility reducing pollutants in the southwest U.S.*

B.S., Meteorology 1977, State University of New York – Oswego.

Employment

Deputy Director, 2005 - present, Center for Remote Sensing of Ice Sheets (CReSIS), University of Kansas.

Professor, 2006 – present, University of Kansas, Geography Department.

Associate Professor, 1995 - 2006, University of Kansas, Geography Department (Prior to 6/2003, Dept. Physics and Astronomy)

Assistant Professor, 1989 - 1995, University of Kansas, Dept. Physics and Astronomy

Visiting Scientist, 1996-1997, Laboratory for Nuclear and Environmental Chemistry, Paul Scherrer Institute, Switzerland. Academic year sabbatical leave from the University of Kansas.

Postgraduate Researcher V, 1988 - 1989 University of California, Davis, Dept. LAWR.

Meteorologist, 1977-1980, H.D.R., Inc., Sciences Division, Santa Barbara, CA

Courses Taught at the University of Kansas

Introduction to Meteorology
Air Pollution Meteorology
Dynamic Meteorology

Unusual Weather
Seminar for Seniors
Advanced Dynamic Meteorology

Professional Society Memberships

American Meteorological Society
IEEE
American Polar Society

American Geophysical Union
International Glaciological Society
Sigma Pi Sigma

Research Activities

- Deputy Director and co-founder of the Center for Remote Sensing of Ice Sheets (CReSIS) at the University of Kansas. CReSIS was one of two Science and Technology Centers established by the National Science Foundation in 2005. The vision of the Center is to understand and predict the role of polar ice sheets in sea-level change.
- Appointed by Kansas Governor Kathleen Sebelius to serve on the [Kansas Energy and Environment Policy \(KEEP\) advisory group, 2008-2010](#).
- [Co-Principal Investigator of an Integrative Graduate Education and Research Traineeship Program \(IGERT\) grant from the National Science Foundation: *C-CHANGE: Climate Change, Humans, and Nature in the Global Environment*](#).
- Managed the outreach program of the Polar Radars for Ice Sheet Measurements (PRISM) project at the University of Kansas.
- Field experience in Antarctica (seven field seasons) and Greenland (four field seasons).
- Chaired a workshop in 1998 on aviation weather hazards at the University of Kansas sponsored by NSF-EPSCoR, FAA and the U.S. Weather Research Program.
- Designed and deployed an instrumentation system called the Microsphere Dispersal System (MDS) which provides a detailed characterization snow accumulation in hostile polar or alpine environments for periods of up to one year. Used the system to characterize snow accumulation processes in Antarctic regions dominated by katabatic winds. Sponsored a high school teacher and student under NSF's Antarctic Research Experiences Program.

Current Funded Projects

IGERT: C-CHANGE: Climate Change, Humans, and Nature in the Global Environment, NSF, J. Nagel, PI, **D. Braaten**, L. Krishtalka, T. Peterson, D. Wildcat Co-PI's, \$3,000,000., 7/1/08 – 6/30/13. Recommended for funding.

Collaborative Research: GAMBIT - Gamburtsev aerogeophysical mapping of bedrock and ice targets, NSF, **D. Braaten**, PI, S. Gogineni, co-PI, \$597,000., 10/1/07 – 9/30/11.

Science and Technology Center: Center for Remote Sensing of Ice Sheets (CReSIS), NSF, S. Gogineni, PI, **D. Braaten**, K. van der Veen, C. Leuchen, co-PI's, \$17,976,000., 6/1/10 – 5/31/15.

Science and Technology Center: Ice Sheets and Sea Level Rise, NSF, S. Gogineni, PI, **D. Braaten**, co-PI, \$19,000,000., 6/1/05 – 5/31/10.

Development of an Anechoic Chamber and Instrumentation for Remote Sensing and Transportation Interdisciplinary Research and Education, NSF, C. Leuschen, PI, S. Seguin, **D. Braaten**, S. Gogineni, C. van der Veen, M. Ewing, co-PI's, \$1,374,617., 08/01/09 – 07/31/14.

Recent Administrative Committees

Colloquium Committee, 2009-2010

Faculty Search Committees (Geology Dept.) 2007-08

Faculty Affairs Committee, (Geography; Physics & Astro.), 2001 – 2006.

Chair, Faculty Search Committees (Geography Dept.) 2003-04, 2005-2006.

Publications

Li, X., R.J. Rowley, J.C. Kostelnick, **D. Braaten**, and J. Meisel, 2009: GIS Analysis of Global Impacts from Sea Level Rise, *Photogrammetric Engineering & Remote Sensing*, 75 (7), 807-818.

Braaten, D.A., and S. Gogineni, 2008: Understanding ice sheet changes and their impact on sea level, *Technology*, 11 (3), 5-12.

Rowley, R.J., J. C. Kostelnick, **D. Braaten**, X. Li, J. Meisel, 2007: Risk of Rising Sea Level to Population and Land Area, *EOS Transactions*, 88(9), 105,107.

Braaten, D.A., 2007: New Aircraft Will Survey Ice Sheets to Understand Rapid Change, *EOS Transactions*, 88 (38), 371.

Gogineni, S., **D. Braaten**, C. Allen, J. Paden, T. Akins, P. Kanagaratnam, K. Jezek, G. Prescott, G. Jayaraman, V. Ramasami, C. Lewis and D. Dunson, 2007: Polar Radar for Ice Sheet Measurements (PRISM), *Remote Sensing of Environment - Special Issue: Cryosphere*, 111, 204-211.

Chernyakov, S., and **D. Braaten**, 2007: Interaction between Public and Business Communities and the Government Regarding Higher Education for the Benefit of Society, Policy Brief, International Research and Exchange (IREX), Washington, D.C., 8 pp. (In English and Russian).

Braaten, D. A., 2006: Greenland. *Encyclopedia of Science and Technology*, McGraw-Hill, New York, pp. 263-264.

Gogineni, S., P. Kanagaratnam, T. Akins, **D. Braaten**, and K. Jezek, 2005: Wideband Synthetic Aperture Radar Imaging of Sub-Surface Interfaces in Glacial Ice, Invited paper, *Proceedings, 6th European Conference on Synthetic Aperture Radar*, Dresden, Germany

Gogineni, S., **D. Braaten**, C. Allen, and G. Prescott, 2005: Strategic and Implementation Plan, Center for Remote Sensing of Ice Sheets, available at: <http://www.cresis.ku.edu/Website%20SI%20Plan.pdf>, 24 pp.

Gogineni, S., **D. Braaten**, C. Allen, G. Prescott, and the STC team, 2005: An Introduction to the Center for Remote Sensing of Ice Sheets (CRISIS), *Proceedings, Program in Arctic and Climate Assessment (PARCA)*, Baltimore, MD, 24-26 October, 2005.

Gogineni, S., **D. Braaten**, P. Kanagaratnam, T. Akins, V. Ramasami, C. Veeramachaneni, and J. Plummer, 2005: Airborne Radar Measurements Over Greenland in 2005, and Signal Processing Accomplishments, *Proceedings, Program in Arctic and Climate Assessment (PARCA)*, Baltimore, MD, 24-26 October, 2005.

- Moore, R. K., **D. Braaten**, V. J. Kurisunkal, B. Natarajakumar, G. K. Narayanan, J. Arockiam, 2005: Correcting wind scatterometers for rain, *Proceedings, XXVIIIth URSI General Assembly*, New Delhi, India, 23-29 October, 2005.
- Gogineni, S., K. Jezek, J. Paden, C. Allen, P. Kanagaratnam, T. Akins, and **D. Braaten**, 2005: Radar imaging and sounding of polar ice sheets, *Proceedings, XXVIIIth URSI General Assembly*, New Delhi, India, 23-29 October, 2005.
- Kanagaratnam, P., S. Gogineni, V. Ramasami and **D. Braaten**, 2004: A wideband radar for high-resolution mapping of near-surface internal layers in glacial ice, *IEEE Trans. Geosci. Remote Sensing*, 42, 483-490.
- Rignot, E., **D. Braaten**, S. P. Gogineni, W. B. Krabill, and J. R. McConnell, 2004: Rapid ice discharge from southeast Greenland glaciers, *Geophys. Res. Lett.*, 31 (10), L10401, doi: 10.1029/2004GL019474.
- Natarajakumar, B., V. Kurisunkal, R. K. Moore, **D. Braaten**, 2004: Rain heights over the oceans: Relation to rain rates, *Proceedings, URSI Commission F Triennium Open Symposium*, Great Barrier Reef, Cairns, Australia, 1-4 June, 2004.
- Braaten, D.**, J. Holvoet, and S. Gogineni, 2004: Virtual PRISM – On the Ice via the Web with the PRISM Project. Proceeding, International Geoscience and Remote Sensing Symposium (IGARSS), Anchorage, Alaska.
- Mohammad, A., **D. Braaten**, V. Frost, and G. Prescott, 2004: Multi-channel Iridium communications for polar field experiments. Proceeding, International Geoscience and Remote Sensing Symposium (IGARSS), Anchorage, Alaska.
- R.K. Moore, **Braaten, D.**, B. Natarajakumar, V. J. Kurisunkal, 2004: Correcting SeaWinds measurements for convective rain that only partially fills the scatterometer footprint.. Proceeding, International Geoscience and Remote Sensing Symposium (IGARSS), Anchorage, Alaska.
- Braaten, D.**, J. Holvoet, C. Bowen, M. Koeppe, and S. Gogineni, 2003: Outreach activities of the polar radar for ice sheet measurements (PRISM) project. Proceeding, International Geoscience and Remote Sensing Symposium (IGARSS), Toulouse, France.
- Moore, R.K., **D. Braaten**, B. Natarajakumar, V. J. Kurisunkal, 2003: Correcting scatterometer ocean measurements for rain effects using radiometer data: Application to SeaWinds on ADEOS-2. Proceeding, International Geoscience and Remote Sensing Symposium (IGARSS), Toulouse, France.
- Ramasami, V., Gogineni, S., B. Holt, P. Kanagaratnam, K. Gurumoorthy, S.K. Namburi, J. Henslee, **D. Braaten**, A. Mahoney, and V. Lytle: 2003: A low frequency wideband depth sounder for sea ice. Proceeding, International Geoscience and Remote Sensing Symposium (IGARSS), Toulouse, France.
- Gogineni, S., G. Prescott, **D. Braaten**, C. Allen, and the PRISM team, 2003: Polar Radar for Ice Sheet Measurements. Proceeding, International Geoscience and Remote Sensing Symposium (IGARSS), Toulouse, France.

Braaten, D., S. Gogineni, D. Tammana, S.K. Namburi, J. Paden, and K. Gurumoorthy, 2002. Improvement of radar ice thickness measurements of Greenland outlet glaciers using SAR processing. *Annals of Glaciology*, 35, 73-78.

Braaten, D.A. and S. Gogineni, 2002: Radar measurements of ice sheet thickness of outlet glaciers in Greenland. Proceeding, International Geoscience and Remote Sensing Symposium (IGARSS), Toronto.

Gogineni, S., D. Tammana, **D. Braaten**, C. Leuschen, T. Akins, J. Legarsky, P. Kanagaratnam, J. Stiles, C. Allen, and K. Jezek, 2001: Coherent radar ice thickness measurements over the Greenland Ice Sheet. *J. Geophys. Res.* 106, (D24), 33,761-33,772.

Braaten, D.A., 2000: Direct measurements of episodic snow accumulation on the Antarctic Polar Plateau, *Journal of Geophysical Research – Atmospheres*, 105 (D8), 10119 - 10128.

Braaten, D.A., and K.L. Ratzlaff, 1998: An automated tracer dispersal system for snow accumulation and transport investigations. *Rev. Sci. Instruments* 69 (2), 572-577.

Braaten, D.A., 1997: A detailed assessment of snow accumulation in katabatic wind areas on the Ross Ice Shelf, Antarctica, *J. Geophys. Res.* 102 (D25), 30,047-30,058.

Braaten, D.A., and K.T. Paw U, 1996: A stochastic model of particle reentrainment- deposition in turbulent boundary layers. *J. Aerosol Sci.* 27, S601-S602.

Roshanaei, H., and **D.A. Braaten**, 1996: Indoor sources of airborne particulate matter in a museum and its impact on works of art. *J. Aerosol Sci.* 27, S443-S444.

Braaten, D.A., 1995: A new technique to provide high time resolution snowpack dating for stratigraphy and chemistry assessments. *Atmos. Environ.* 29, 2535-2539.

Paw U, K.T. and **D.A. Braaten**, 1995: New perspectives on rebound and reentrainment processes. *Aerosol Sci. Technol.* 23, 72-79.

Braaten, D.A. 1994: Wind tunnel experiments of large particle reentrainment-deposition and development of large particle scaling parameters. *Aerosol Sci. Technol.*, 21, 157-169.

Braaten, D.A., R. H. Shaw, and K.T. Paw U, 1993: Boundary-layer flow structures associated with particle reentrainment. *Boundary-Layer Meteorology*, 65, 255-272.

Braaten, D.A., and K.T. Paw U, 1992: A net deposition model. *Aerosol Sci. Technol.*, 17, 289-302.

Paw U, K.T. and **D.A. Braaten**, 1992: Experimental evidence of the importance of rebound in net deposition of particles. *Aerosol Sci. Technol.*, 17, 278-288.

Braaten, D.A. and K.T. Paw U, 1992: A stochastic particle resuspension and deposition model. *Precipitation Scavenging and Atmospheric Surface Exchange*. Vol. 2, pp 1143-1152, Hemisphere, Washington.

Braaten, D.A., K.T. Paw U, and R.H. Shaw, 1990: Particle resuspension in a turbulent boundary layer - Observed and modeled. *J. Aerosol Sci.*, 21 (5), 613-628.

Braaten, D.A., K.T. Paw U, and R.H. Shaw, 1988: Coherent turbulent structures and particle detachment in boundary layer flows. *J. Aerosol. Sci.*, 19 (7), 1183-1186.

Raabe, O.G., **D.A. Braaten**, R.L. Axelbaum, S.V. Teague, and T.A. Cahill, 1988: Calibration studies of the DRUM impactor. *J. Aerosol. Sci.*, 19 (2), 183-195.

Braaten, D.A., and T.A. Cahill, 1986: Size and composition of Asian dust transported to Hawaii. *Atmos. Environ.* 20 (6), 1105-1109.

Other Publications

Braaten, D. A., LaBrie, R., McDermott, D., Gogineni, P. S., Bell, R. E., Studinger, M., Frearson, N., Damaske, D., and Ferraccioli, F., 2009: The Impact of Data Density on Interpolation Methods Used to Develop a Digital Elevation Model of the Gamburtsev Subglacial Mountains in East Antarctica. *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract C43A-0488.

Jordan, T. A., Ferraccioli, F., Studinger, M., Bell, R. E., Damaske, D., Elieff, S., Finn, C., **Braaten, D. A.**, and Corr, H. 2009: Investigating subglacial landscapes and crustal structure of the Gamburtsev Province in East Antarctica with the aid of new airborne gravity data. *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract C43A-0484.

Ferraccioli, F., Bell, R. E., Studinger, M., Damaske, D., Jordan, T. A., Corr, H., **Braaten, D. A.**, Gogineni, P. S., Fahnestock, M.A., Finn, C., and Rose, K. 2009: New Aerogeophysical exploration of the Gamburtsev Province (East Antarctica). *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract C52A-01.

Studinger, M., Bell, R. E., Ferraccioli, F., Damaske, D., Finn, C., **Braaten, D.**, Fahnestock, M.A., Jordan, T. A., Corr, H., Elieff, S., Frearson, N., Block, A. E., and Rose, K. 2009: The East Antarctic Ice Sheet and the Gamburtsev Subglacial Mountains (*Invited*). *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract G52B-03.

Bell, R. E., Studinger, M., Ferraccioli, F., Damaske, D., Finn, C., **Braaten, D.**, Fahnestock, M.A., Jordan, T. A., Corr, H., Elieff, S., Robinson, C., Frearson, N., Geue, D., McMinn, M.C., Burton, B., Goldmann, F., Block, A. E., Bates, M., and Rose, K. 2009: AGAP: Exploring the Gamburtsev Subglacial Mountains with Aerogeophysical Surveys during the IPY. *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract C53B-08.

Wolovick, M., Frearson, N., Block, A. E., Bell, R. E., Studinger, M., Ferraccioli, F., **Braaten, D. A.**, and Damaske, D., 2009: Preliminary Analysis of the Gamburtsev Subglacial Mountains Morphology from AGAP Airborne Radar Data. *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract C43A-0486.

Studinger, M., Bell, R. E., Ferraccioli, F., Damaske, D., Finn, C., **Braaten, D.**, Fahnestock, M.A., Jordan, T. A., Corr, H., Elieff, S., Robinson, C., Frearson, N., Geue, D., McMinn, M.C., Burton, B., Goldmann, F., Block, A. E., Bates, M., and Rose, K. 2009: AGAP: Exploring the Gamburtsev

Subglacial Mountains with Aerogeophysical Surveys during the IPY. *IGS Symposium – Glaciology in the IPY*, 27-31 July, 2009, Newcastle, UK

Bell, R. E., Studinger, M., Damaske, D., Ferraccioli, F., **Braaten, D.**, Finn, C., and Fahnestock, M.A., 2009: Exploring Antarctica's Gamburtsev Mountain Province (AGAP): A flagship program of the international polar year 2007-8. *IGS Symposium – Glaciology in the IPY*, 27-31 July, 2009, Newcastle, UK.

Studinger, M., Bell, R. E., Damaske, D., Ferraccioli, F., **Braaten, D.**, Finn, C., Fahnestock, M.A., 2009: Antarctic earth system science during IPY: Exploring linkages between tectonic, Glaciologic and Biologic processes in Central East Antarctica with geophysical methods. *International Workshop – Exploring Frontier Regions in East Antarctica During IPY and Beyond*, 19-20 March 2009, Cambridge, UK.

Ferraccioli, F., R.E. Bell, M. Studinger, D. Damaske, C.A. Finn, P. Gogineni, **D. Braaten**, T.A. Jordan, 2008: International Partnerships Launched to Explore the Gamburtsev Subglacial Mountains Province Under the East Antarctic Ice Sheet. SCAR-2008, St Petersburg, Russia.

Bell, R., M. Studinger, N. Frearson, P. Gogineni, and **D. Braaten**, 2007: Development of a next generation polar multidisciplinary airborne imaging system for the International Polar Year 2007-2009. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract NS34A-02.

Gogineni, S. and 27 others, 2007, Center for Remote Sensing of Ice Sheets (CRISIS), On-line *EOS* Supplement. Link to this article is in **Braaten, D.A.**, 2007 *EOS Transactions*, 88 (38), 371.

Hayden, L., and **D. Braaten**, 2007: Development of Educational Partnerships Dedicated to Remote Sensing of Ice Sheets Cyberinfrastructure. Proceeding, International Geoscience and Remote Sensing Symposium (IGARSS), Barcelona, Spain.

Marathe, K.C., V.A. Jara, T. Akins, P. Kanagaratnam, Gogineni, S., K. Jezek, C. Allen, **D. Braaten**, 2006: Airborne Radar Demonstrator for Imaging of Ice-bed Interface, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract C21A-1135.

Gogineni, S., J. Paden, T. Akins, C. Allen, P. Kanagaratnam, **D. Braaten**, K. Jezek, 2006: Synthetic Aperture Radar Imaging of Ice-bed Interface, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract C14B-06.

Studinger, M., R.E. Bell, **D. Braaten**, D. Damaske, F. Ferraccioli, C. Finn, S. Gogineni, C.J. Wilson, 2006: Exploring the Gamburtsev Subglacial Mountains with Aerogeophysical Surveys During the IPY. *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract U21B-0814.

Kanagaratnam, P., T. Rink, **D. Braaten**, T. Akins, and S. Gogineni, 2006: A Wide-band Radar for Mapping Near-Surface Isochronous Layers in Snow. Proceeding, International Geoscience and Remote Sensing Symposium (IGARSS), Denver, CO.

Rink, T., P. Kanagaratnam, **D. Braaten**, K. Mullenberg, T. Akins, and S. Gogineni, 2005: A Fine-Resolution Radar for Mapping Near-Surface Isochronous Layers. *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract IN13B-1091.

Gogineni, S., P. Kanagaratnam, R. Parthasarathy, T. Akins, **D. Braaten**, K. Jezek, , 2004: Ultra wideband radar mapping of near surface internal layers: Systems, results and analysis. *Eos Trans. AGU*, 85(47), Fall Meet. Suppl., Abstract C41D-01.

Studinger, M., C.A. Finn, R.E. Bell, S. Gogineni, L. Hayden, and **D. Braaten**, 2004: GAMBIT – Gamburtsev aerogeophysical mapping of bedrock and ice targets during IPY. *Eos Trans. AGU*, 85(47), Fall Meet. Suppl., Abstract C21A-0972.

Braaten, D., S. Gogineni, T. Akins, P. Kanagaratnam, R. Parthasarathy, and C. Allen, 2004: Advanced radar systems for airborne ice thickness measurements and near-surface internal layer mapping. Proceedings, Workshop on Science Opportunities for a Multidisciplinary Long-Range Aircraft for Antarctic Research (LARA), Herndon, VA.

Braaten, D.A., J.F. Holvoet, S. Gogineni, 2003: Web-based tools for educators: Outreach activities of the Polar Radar for Ice Sheet Measurements (PRISM) project. *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract ED21B-1217.

Parthasarathy, R., P. Kanagaratnam, T. Akins, J. Wuite, **D. Braaten**, K. Jezek, S. Gogineni, 2003: Fine-resolution mapping of near-surface internal layers. *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract C11C-0843.

Chalishazar, N., G. Prescott, **D. Braaten**, 2003: A high speed, long-range mobile communications link for use in Polar Regions. *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract C41C-1001.

Mohammad, A., V. Frost, **D. Braaten**, 2003: Results of an Iridium-based data communications system providing Internet access to polar expeditions. *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract C12A-0863.

Moore, R.K., **D. Braaten**, B. Natarajakumar, V. J. Kurisunkal, 2003: Correcting SeaWinds measurements for rain effects using AMSR data. Proceedings, Ocean Wind Vector Meeting, Jan 14-16, Oxnard, CA.

Braaten, D., P. Kanagaratnam, T. Akins, S. Gogineni, 2003: Measurement of thickness of the Greenland ice sheet and high-resolution mapping of internal layers. Technical Report, RSL 20780-2.

Braaten, D., S. Gogineni, and the PRISM team, 2002: An Overview of the Polar Radar for Ice Sheet Measurements (PRISM) Project. 9th Annual West Antarctic Ice Sheet (WAIS) Workshop, Sterling, VA.

Moore, R.K., **D. Braaten**, B. Natarajakumar, V. J. Kurisunkal, 2002: Correlation of rain rate and rain height: A study relating to correction of seawinds scatterometer data for rain. Proceedings, 27th URSI General Assembly, Maastricht, The Netherlands.

P. Kanagaratnam, B. Parthasarathy, T. Plummer, T. Akins, **D. Braaten** and S.P. Gogineni, 2002: A High-Resolution Airborne Radar System for Near Surface Mapping of Internal Layers to Estimate Accumulation Rate, Proceedings, 32nd European Microwave Conference, September, 24 – 26, 2002, Milan, Italy.

Moore, R. K., **D. Braaten**, and S. Taherion, 2001: Correction of Seawinds Measurements Based on TRMM Rain-Height Measurements, presented at the Specialist Meeting on Microwave Remote Sensing, 5-9 November, Boulder, Colorado.

Braaten, D.A., and D. Tucker, 2001: A ceiling and visibility prediction system suitable for Antarctic flight operations. Preprints, *Sixth Conference on Polar Meteorology and Oceanography*, American Meteorological Society, 365-366.

Braaten, D., D. Tucker, C. Pan, I. Jirak, and P. Browning, 2000: Identification of key parameters for aviation forecasts of ceiling and visibility, Preprints, *Antarctic Weather Forecasting Workshop (NSF)*, Ohio State University, pp. 59-62.

Braaten, D., I. Jirak, D. Tucker, C. Pan, and P. Browning, 2000: Key parameters in forecasting IFR conditions: Two case studies. Preprints, *Ninth Conference on Aviation, Range, and Aerospace Meteorology*, American Meteorological Society, Boston, MA., pp. 165-166.

Tucker, D., D. Crnkovich, D. McCann, and **D. Braaten**, 2000: An investigation of clear air versus in cloud turbulence. Preprints, *Ninth Conference on Aviation, Range, and Aerospace Meteorology*, American Meteorological Society, Boston, MA., pp. 212.

Pan, C., I. Jirak, D. Tucker, **Braaten, D.**, P. Browning, and D. Beusterien, 2000: Improvement of terminal area forecasts. Preprints, *Ninth Conference on Aviation, Range, and Aerospace Meteorology*, American Meteorological Society, Boston, MA., pp. 377-380.

Braaten, D., and M. Wu, 1999: Assessment of sublimation algorithm parameters on observed snow height changes in Greenland, *EOS Transactions*, 80, F236.

Droegemeier, K.K., **D.A., Braaten**, and D. Rodenhuis, 1999: Report of the first study conference on aviation weather hazards. Eighth Conference on Aviation, Range, and Aerospace Meteorology, American Meteorological Society, Boston, MA., pp. 27-32.

Braaten, D.A., 1999: Direct measurements of episodic snow accumulation in Antarctica. *Fifth Conference on Polar Meteorology and Oceanography*, American Meteorological Society, Boston, MA., pp. 124-125.

Braaten, D.A., 1998: Direct measurements of episodic snow accumulation on the Antarctic polar plateau. Chapman Conference on the West Antarctic Ice Sheet, Orono, ME, pg. 40.

Braaten, D.A., M. Schwikowski, U. Baltensperger, and C. Fierz, 1998: An investigation of the role of vertical temperature gradients in snow on changes in snow chemistry. Annual Report 1997, Laboratory for Radiation and Environmental Chemistry, University of Bern and Paul Scherrer Institute (Switzerland).

Braaten, D.A., 1997: The role of winds on the growth of polar ice sheets. *Eos (Supplemental Issue)*, 78 (46).

Braaten, D.A., 1997: Precipitation, winds, and net snow accumulation: What's really going on? *4th Conference on the West Antarctic Ice Sheet*, Sterling, VA.

Braaten, D.A., M. Schwikowski, U. Baltensperger, 1997: Assessment of snow accumulation dynamics on a high alpine snow field using glass microspheres. Annual Report 1996, Laboratory for Radiation and Environmental Chemistry, University of Bern and Paul Scherrer Institute (Switzerland), 13.

Muldumala, K. and **D.A. Braaten**, 1997: The Role of Gravity in the Reentrainment-Deposition Trajectories of Large Particles. *American Association of Aerosol Research*, Cincinnati, OH, pg. 479.

Braaten, D.A., 1997: Characterization of Seasonal Snow Accumulation on the Ross Ice Shelf, Antarctica. *Antarctic Journal of the U.S.*, 32(5), 50-52.

Stewart, J., **D.A. Braaten**, and C. Bennett, 1997: Characterization of Wind Generated Snow Surface Features on the Ross Ice Shelf. *Antarctic Journal of the U.S.*, 32(5), 48-50.

Braaten, D.A., 1996: Temporal variation of snow accumulation rate at two Ross Ice Shelf locations influenced by katabatic winds. *Antarctic Journal of the U.S.*, 31(2), 235-236.

Paw U, K.T., H.B. Su, and **D.A. Braaten**, 1996: The usage of structure functions in estimating water vapor and carbon dioxide exchange between plant canopies and the atmosphere. 22nd Conference on Agricultural and Forest Meteorology, American Meteorological Society, Boston, MA.

Braaten, D.A., 1995: Assessment of snow accumulation and transport dynamics using glass microspheres. *Antarctic Journal of the U.S.*, 30(5), 331-332.

Braaten, D. A., 1995: Experimental evaluation of a stochastic particle resuspension and deposition model. *American Association of Aerosol Research*, Cincinnati, OH, pg. 405.

Rockey, C.C. and **D.A. Braaten**, 1995: Characterization of polar cyclonic activity and relationship to observed snowfall events at McMurdo Station, Antarctica. *Fourth Conference on Polar Meteorology and Oceanography*, American Meteorological Society, Boston, MA.

Braaten, D.A., 1994: Instrumentation to quantify snow accumulation and transport dynamics at two locations on the Ross Ice Shelf. *Antarctic Journal of the United States* 29(5), 86-87.

Braaten, D.A., 1993: Particle reentrainment in transition boundary layers. *American Association of Aerosol Research*, Cincinnati, OH, pg. 118.

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