

*Curriculum Vitae*  
**Steven Philip Oncley**  
*July 30, 2012*

**1. Education Information:**

- 1989 Ph.D., Mechanical Engineering, Univ. of Calif., Irvine CA; Carl Friehe, advisor;  
Thesis: Flux Parameterization Techniques in the Atmospheric Surface Layer
- 1983 M.S., Atmospheric Sciences, Univ. of Wash., Seattle WA; Joost Businger, advisor;  
Thesis: An Intercomparison between Microwave Backscatter and  
Gust Probe Measurements during STREX
- 1979 B.A., Physics, Franklin and Marshall College, Lancaster PA

**2. Professional Experience:**

2010-pres.	Scientist III	Natl. Center for Atm. Res.	Boulder CO
2000-2001	Acting Head, ATD/SSSF Surface Group	Natl. Center for Atm. Res.	Boulder CO
1998-2010	Project Scientist II	Natl. Center for Atm. Res.	Boulder CO
1994-1998	Scientist II	Natl. Center for Atm. Res.	Boulder CO
1991-1994	Scientist I	Natl. Center for Atm. Res.	Boulder CO
1989-1991	Postdoctoral Scientist	Natl. Center for Atm. Res.	Boulder CO
1988	Teaching assistant	Univ. of Calif.	Irvine CA
1985-1988	Research assistant	Univ. of Calif.	Irvine CA
1983-1985	Research meteorologist	Univ. of Wash.	Seattle WA
1981	Teaching assistant	Univ. of Wash.	Seattle WA
1979-1983	Research assistant	Univ. of Wash.	Seattle WA
1979	Technician	Man, Acoustics, and Noise	Seattle WA

**4. Community Service:**

**4.1 Professional Organizations and Committees:**

- 2012 Program committee for AMS “16th Symposium on Meteorological Observation and Instrumentation”.
- 2011-2014 Chair, Expert Team on New In Situ Measurement Technologies, WMO Commission for Instruments and Methods of Observations.
- 2009-2012 Invited member on AMS Committee on Measurements.
- 2000 Co-chair for AMS “14th Symposium on Boundary Layers and Turbulence”.
- 1998 Program committee for AMS “13th Symposium on Boundary Layers and Turbulence”.
- 1997 Program committee for AMS “12th Symposium on Boundary Layers and Turbulence”.
- 1997-2000 Administrator of the WWW page for the AMS Boundary Layers and Turbulence committee.

- 1997-1999 Invited member on AMS committee on Boundary Layers and Turbulence.
- 1994-pres. Administrator of the micrometeorology electronic mailing list, currently with about 240 scientists from over 20 countries.
- 1993 Co-organizer of EGS “Workshop on Instrumental and Methodical Problems of Land Surface Flux Measurements”.
- 1989-pres. Member American Meteorological Society
- 1982-1996 Member American Geophysical Union

## 4.2 Invited Lectures and Workshop Participation

- 2012 Lecture to “Research Experiences for Undergraduates” course in wind energy, Iowa State University, Ames, IA.
- 2011 Lecture to “Research Experiences for Undergraduates” course in wind energy, Iowa State University, Ames, IA.
- 2011 Invited speaker to European Energy Research Alliance, Wind Conditions Workshop, Porto, Portugal.
- 2009 Invited participant in US Climate Reference Network/NIDIS Workshop on soil moisture/temperature, Oak Ridge, TN.
- 2009 Invited lecturer for Colorado State University graduate course, “Measurement Systems and Theory”, Ft. Collins, Colorado.
- 2009 Invited speaker to CUASHI workshop “Distributed Sensing Networks”, Boulder, Colorado.
- 2005 Invited speaker in ACCENT–BIAFLUX “Trace Gas and Aerosol Flux Measurement Workshop”, RISØ, Denmark.
- 2003 Invited speaker in workshop “Frontiers of Assessment Methods for the Environment”, University of Minnesota.
- 2003 Invited participant in the U.S. Army forum “Modeling the Atmospheric Boundary Layer”, Ft. Collins, CO.
- 1998 Invited speaker to the Symposium, “Transfer Processes in the Natural Environment, CSIRO, Australia”.
- 1996 Invited speaker at the Workshop on Atmospheric Deposition and Surface Exchange, National Environmental Research Institute, Denmark.
- 1996 Invited participant in the Workshop on Air Pollution Modeling, National Environmental Research Institute, Denmark.
- 1980-pres. Seminars given at University of Washington, University of California, Davis, RISØ National Laboratory (Denmark), CSIRO (Australia), Bayreuth University (Germany), Eötvös Loránd University (Hungary) and NCAR.

## 4.3 Invited Sabbaticals

- 1996 Invited visitor (for 4 months) to RISØ, Denmark. Collaborated with Leif Kristensen, Jakob Mann, Niels Gylling Mortensen, and Jorgen Hojstrup on scalar flux measurements, analysis of BOREAS data, and flow distortion.
- 1991 Invited visitor (for 6 weeks) to CSIRO, Australia. Collaborated with Frank Bradley, John Finnegan, and Paul Frenzen (Argonne National

Laboratory) to measure pressure fluctuations in the surface layer.

#### 4.4 NCAR Activities

2010-2011	Participant, NCAR Leadership Academy
2010	Member, NCAR Project Scientist IV Committee
2010	Participant, Colorado School of Mines-NCAR Symposium.
2009-2012	Member, UCAR Awards Jury.
2009	Science lead on Organizing Committee for NSF Facility Users' Workshop.
2009	Steering Committee for ASP Summer Colloquium: "Exploring the Atmosphere: Observational Instruments and Techniques"
2008-2011	Member, EOL WWW Advisory Group
2008	Organizer, EOL Sensor Networking Workshop
2008	Organizing committee for IMAGE workshop: "Observing the Turbulent Atmosphere: Sampling Strategies, Technology, and Applications"
2007-2009	EOL Science Group representative, EOL Management Advisory Committee (MAC)
2006	Organizing committee for GTP workshop: "Turbulence and Scalar Transport in Roughness Sublayers"
2001	Project and Associate Scientist Review Committee
2000-pres.	Member of NCAR Biogeosciences Initiative/BEACHON.
1998	Member of organizing committee for GTP Workshop: "Observations, Experiments, and LES: A Triad for Geophysical Turbulence Studies."
1997	Member of organizing committee for GTP Workshop: "Numerical Simulations and Physical Reality".
1996-pres.	Member of NCAR Geophysical Turbulence Program.
1995	Coinvestigator for MAPR test at the BAO.
1994	Coinvestigator for Electra deployment during BOREAS.
1993	Member of ATD Diversity Recruiting Committee.
1992	Principal Investigator for NCAR King Air deployment during test of the interferometric profiler (now MAPR) at the ARM CART site.
1991	Advisor to SEP participant, Elisabeth Yap (Harvard).
1991	SSSF visitor coordinator.

#### 4.5 ATD/EOL Field Support Activities

2012 (Oct-Nov)	Project scientist for ISFS deployment for SCP.
2011 (Jun-Aug)	Project scientist for ISFS deployment for CWEX11.
2009 (ongoing)	Project scientist for ISFS deployment for BEACHON.
2008 (Jul-Aug)	Project scientist for ISFS deployment for AHATS.
2007 (Jul-Sep)	Investigator for ISFF deployment for Niwot07.
2007 (Mar-Jun)	Investigator for ISFF deployment for CHATS.
2006 (Mar-Apr)	Project scientist for ISFF deployment for TREX.
2004 (Dec-Jan 2005)	Project scientist for ISFF deployment (and GAUS operator) for RICO.
2004 (Jun-Sep)	Project scientist for ISFF deployment for CME04.

2004 (Jan) Project scientist for ISFF deployment for (HAO support) DASH04.  
 2002 (Oct-Apr 2003) Project scientist for ISFF deployment for FLOSS-II.  
 2002 (Aug-Sep) Project scientist for ISFF deployment for NIWOT02.  
 2001 (Nov-Apr 2002) Project scientist for ISFF deployment for FLOSS01.  
 2001 (Jul-Aug) Project scientist for ISFF deployment for AOE01.  
 2000 (Nov-Dec) Project scientist for ISFF deployment for ISCAT00.  
 2000 (Jul-Aug) Project scientist (and Principal Investigator) for ISFF deployment for EBEX00.  
 1999 (Oct-Nov) Project scientist for ISFF deployment for CASES99.  
 1997 (Apr-May) Project scientist for ASTER/PAM deployment for CASES97.  
 1995 (Feb-Mar) Project scientist for ASTER deployment during MICROFRONTS.  
 1994 (Feb-Mar) Project scientist for ASTER deployment during DOWNWASH.  
 1991 (Feb-Mar) Project scientist (also Principal Investigator) for ASTER deployment for ARM (Atmospheric Radiation Measurement Program).  
 1990 (Sep-Nov) Project scientist (also Principal Investigator) for ASTER deployment for FLAT.

Also participated in deployments for:

2010 PCAPS; ISFF.  
 2006 METCRAX; ISFF.  
 2006 CuPIDO; ISFF.  
 2003 HVAMS; ISFF.  
 2002 IHOP; ISFF.  
 2000 OASIS; ISFF.  
 1998 OASIS; ISFF.  
 1996 FLATLANDS; Flux-PAM.  
 1994 CACHE; ASTER.  
 1991 SJVAQS; ASTER.

## 5. Honors and Awards:

2010 UCAR Outstanding Accomplishment Award (Education and Outreach) ASP Colloquium Organizers  
 2010 UCAR Special Recognition Award to NSF Facilities Users' Workshop Organizing Committee  
 2009 UCAR Special Recognition Award to ASP Colloquium Steering Committee  
 1995 Nominated for NCAR Outstanding Publication Award, (Praskovsky and Oncley - fine-scale turbulence, papers 2.9, 2.10, 2.11, 2.13).  
 1993 Nominated for NCAR Outstanding Publication Award, (Businger and Oncley - conditional sampling, paper 2.2).  
 1989-1991 NCAR ASP Postdoctoral Fellowship  
 1988 Dissertation Fellowship, Univ. of Calif.  
 1985 Out-of-state Tuition Fellowship, Univ. of Calif.  
 1979 Summerfield Scholar,  $\Phi\Kappa\Psi$  Fraternity.  
 1978 Member,  $\Sigma\Pi\Sigma$ , physics honor society.

## 7. Publications List

### 7.1. Theses

- 1.1 **Oncley, S.P.**, 1983: An intercomparison between microwave backscatter and gust probe measurements during STREX. *M.S. Thesis*, Univ. of Wash., Seattle WA, 77 pp.
- 1.2 **Oncley, S.P.**, 1989: Flux parameterization techniques in the atmospheric surface layer. *Ph.D. Dissertation*, Univ. of Calif., Irvine CA, 202 pp.

### 7.2. Refereed Journal Articles

- 2.1 Zhang, S.F, J.C. Wyngaard, J.A. Businger, and **S.P. Oncley**, 1986: Response characteristics of the U. W. sonic anemometer. *J. Atmos. Ocean. Tech.*, **3**, 315–323.
- 2.2 Businger, J.A., and **S.P. Oncley**, 1990: Flux measurement with conditional sampling. *J. Atmos. Ocean. Tech.*, **7**, 349–352.
- 2.3 Businger, J.A., W.F. Dabberdt, A.C. Delany, T.W. Horst, C.L. Martin, **S.P. Oncley**, and S.R. Semmer, 1990: The NCAR atmosphere-surface turbulent exchange research (ASTER) facility. *Bull. Amer. Meteor. Soc.*, **71**. 1004–1011.
- 2.4 Businger, J.A., W.F. Dabberdt, A.C. Delany, T.W. Horst, C.L. Martin, **S.P. Oncley**, and S.R. Semmer, 1990: ASTER, The atmosphere-surface turbulent exchange research facility at NCAR. *EOS, Transactions, American Geophysical Union*, **71**, 693-702.
- 2.5 **Oncley, S.P.**, A.C. Delany, T.W. Horst, and P.P. Tans, 1993: Verification of Flux Measurement using Relaxed Eddy Accumulation. *Atmospheric Environment*, **27**, 2417-2426.
- 2.6 Dabberdt, W.F., D.H. Lenschow, T.W. Horst, P.R. Zimmerman, **S.P. Oncley**, and A.C. Delany, 1993: Atmosphere-surface exchange measurements. *Science*, **260**, 1472-1481.
- 2.7 Massman, W.J., J. Pederson, A. Delany, D. Grantz, G. den Hartog, H.H. Neumann, **S.P. Oncley**, R. Pearson, Jr., and R. Shaw, 1994: An evaluation of the regional acid deposition module surface module for ozone uptake at three sites in the San Joaquin Valley of California. *J. Geophys. Res.* **99**, 8281-8294.
- 2.8 Padro, J., W.J. Massman, R.H. Shaw, A. Delany, and **S.P. Oncley**, 1994: A comparison of some aerodynamic resistance methods using measurements over cotton and grass from the 1991 California Ozone Deposition Experiment. *Boundary-Layer Met.*, **71**, 327-339.

- 2.9 Praskovsky, A. and **S.P. Oncley**, 1994: Probability density distribution of velocity differences at very high Reynolds numbers. *Physical Review Letters*, **73**, 3399-3402.
- 2.10 Praskovsky, A. and **S. Oncley**, 1994: Correlators of velocity differences and energy dissipation at very high Reynolds numbers. *Europhysics Letters*, **28**, 635-640.
- 2.11 Praskovsky, A. and **S.P. Oncley**, 1994: Measurements of the Kolmogorov constant and intermittency exponent at very high Reynolds numbers. *Physics of Fluids*, **6**, 2886-2888.
- 2.12 Ye Zhou, A. Praskovsky, and **S.P. Oncley**, 1995: On the LightHill relationship and sound generation from isotropic turbulence. *Theoret. Comput. Fluid Dynamics*, **7**, 355-361.
- 2.13 Praskovsky, A. and **S.P. Oncley**, 1995: Some inertial range correlators in fully developed turbulence. *Physical Review E*, **51**, R5197-R5199.
- 2.14 Foken, T. and **S. Oncley**, 1995: A report on the workshop: Instrumental and methodical problems of land-surface flux measurements. *Bull. Amer. Met. Soc.*, **76**, 1191-1193.
- 2.15 Massman, W.J., J.I. MacPherson, A. Delany, G. den Hartog, H.H. Neumann, **S.P. Oncley**, R. Pearson, Jr., J. Pederson, and R.H. Shaw, 1995: Surface conductances for ozone uptake derived from aircraft eddy correlation data. *Atmospheric Environment*, **29**, 3181-3188.
- 2.16 Pederson, J.R., W.J. Massman, L. Mahrt, A. Delany, **S.P. Oncley**, G. den Hartog, H.H. Neumann, R.E. Mickle, R.H. Shaw, K.T. Pawu, D.A. Grantz, J.I. MacPherson, R. Desjardins, P.H. Schuepp, R. Pearson, Jr., T.E. Arcado, 1995: California Ozone Deposition Experiment: Methods, results, and opportunities. *Atmospheric Environment*, **29**, 3115-3132.
- 2.17 **Oncley, S.P.**, and J. Dudhia, 1995: Verification of surface fluxes from MM5 using observations. *Monthly Weath. Rev.*, **123**, 3344-3357.
- 2.18 \***Oncley, S.P.**, C.A. Friehe, J.A. Businger, E.C. Itsweire, J.C. LaRue, and S.S. Chang, 1996: Surface-layer fluxes, profiles and turbulence measurements over uniform terrain under near-neutral conditions. *J. Atmos. Sci.*, **53**, 1029-1044.
- 2.19 Ehret, G., A. Giez, C. Kiemle, K.J. Davis, D.H. Lenschow, **S.P. Oncley**, and R.D. Kelly, 1996: Airborne water vapor DIAL and in situ observations of a sea-land interface. *Betr. Phys. Atmosph.*, **69**, 215-228.
- 2.20 Kristensen, L., J. Mann, **S.P. Oncley**, and J.C. Wyngaard, 1997: How close is close enough when measuring fluxes with displaced sensors?. *J. Atmos. Ocean. Tech.* **14** 814-821.

- 2.21 Cohn, S., C.L. Holloway, **S.P. Oncley**, R.J. Doviak, R.J. Latatits, 1997: Validation of a wind measurement algorithm and application of a spaced antenna wind profiler for high resolution observations. *Radio Science*, **32**, 1279-1296.
- 2.22 Praskovsky, A. and **S.P. Oncley**, 1997: Comprehensive measurements of the intermittency exponent in high Reynolds number turbulent flows. *Fluid Dynamics Res.*, **21**, 331-358.
- 2.23 Dobosy, R., T. Crawford, I. MacPherson, R. Desjardins, R.D. Kelly, **S.P. Oncley**, and D.H. Lenschow, 1997: Intercomparison among the four flux aircraft at BOREAS in 1994. *J. Geophys. Res.*, **102**, D24, 29101-29112.
- 2.24 **Oncley, S.P.**, D.H. Lenschow, K.J. Davis, T. Campos, and J. Mann, 1997: Regional-scale surface flux observations across the boreal forest during BOREAS. *J. Geophys. Res.*, **102**, D24, 29147-29154.
- 2.25 Sun, J., D.H. Lenschow, L. Mahrt, T.L. Crawford, K.J. Davis, **S.P. Oncley**, J.L. MacPherson, Q. Wang, R.J. Dobosy, J.L. Desjardins, 1997: Lake-induced atmospheric circulations during BOREAS. *J. Geophys. Res.*, **102**, D24, 29155-29166.
- 2.26 C. Kiemle, G. Ehret, A. Giez, K.J. Davis, D.H. Lenschow, and **S.P. Oncley**, 1997: Estimation of boundary-layer humidity fluxes and statistics from airborne DIAL. *J. Geophys. Res.*, **102**, D24, 29189-29204.
- 2.27 Davis, K.J., D.H. Lenschow, **S.P. Oncley**, C. Kiemle, G. Ehret, A. Giez, and J. Mann, 1997: The role of entrainment in surface-atmosphere interactions over the boreal forest. *J. Geophys. Res.*, **102**, D24, 29219-29230.
- 2.28 Mahrt, L., J. Sun, W. Blumen, T. Delany, and **S. Oncley**, 1998: Nocturnal boundary-layer regimes. *Bound.-Layer Meteor.*, **88**, 255-278.
- 2.29 Pearson, R., **S. Oncley**, and A.C. Delany, 1998: A scalar similarity study based on surface layer ozone measurements over cotton during the California Ozone Deposition Experiment (CODE). *J. Geophys. Res.*, **103**, D15, 18919-18926.
- 2.30 LeMone, M.A., R.L. Grossman, R.L. Coulter, M.L. Wesely, G.E. Klazura, G.S. Poulos, W. Blumen, J.K. Lundquist, R.H. Cuenca, S.F. Kelly, E.A. Brandes, **S.P. Oncley**, R.T. McMillen, and B.B. Hicks, 2000: Land-atmosphere interaction research and opportunities in the Walnut River watershed in southeast Kansas: CASES and ABLE. *Bull. Amer. Meteor. Soc.*, **81**, 757-779.
- 2.31 Shaw, R.A., and **S.P. Oncley**, 2001: Acceleration intermittency and enhanced collision kernels in turbulent clouds. *Atmospheric Research*, **59-60**, 77-87.

- 2.32 Yates, D. N., F. Chen, M.A. LeMone, R. Qualls, **S.P. Oncley**, R.L. Grossman, and E.A. Brandes, 2001: A Cooperative Atmosphere-Surface Exchange Study (CASES) dataset for analyzing and parameterizing the effects of land surface heterogeneity on area-averaged surface heat fluxes. *J. Appl. Meteor.*, **40**, 921–937.
- 2.33 J. Wilczak, **S.P. Oncley**, and S.A. Stage, 2001: Sonic anemometer tilt correction algorithms. *Bound.-Layer Meteor.*, **99**, 127–150.
- 2.34 Sun, J., S.P. Burns, A.C. Delany, **S.P. Oncley**, T.W. Horst, and D.H. Lenschow, 2003: Heat Balance in the Nocturnal Boundary Layer during CASES-99. *J. Appl. Meteor.*, **42** (11), 1649–1666.
- 2.35 Burns, S.P., J. Sun, A. C. Delany, S.R. Semmer, **S.P. Oncley**, and T.W. Horst, 2003: A field intercomparison technique to improve the relative accuracy of longwave radiation measurements and an evaluation of CASES-99 pyrgeometer data quality. *J. Atmos. Ocean. Technol.*, **20**, 348–361.
- 2.36 Tjernström, M., C. Leck, P. Ola G. Persson, M.L. Jensen, **S.P. Oncley**, and A. Targino, 2004: The summertime arctic atmosphere: Meteorological measurements during the Arctic Ocean Experiment 2001 (AOE-2001). *Bull. Amer. Meteor. Soc.*, **85**, 1305–1321.
- 2.37 Tjernstroem, M., C.Leck, P.O.G.Persson, M.L.Jensen, **S.P. Oncley**, A.Targino, 2004: Experimental Equipment: A Supplement to The Summertime Arctic Atmosphere: Meteorological Measurements during the Arctic Ocean Experiment 2001. *Bull. Amer. Meteorol. Soc.*, **85**, 1322–1322.
- 2.38 Davis, D.D., F.Eisele, G.Chen, J.Crawford, G.Huey, D.Tanner, D.Slusher, L.Mauldin, **S. Oncley**, D.Lenschow, S.Semmer, R.Shetter, B.Lefer, R.Arimoto, A.Hogan, P.Grube, M.Lazzara, A.Bandy, D.Thorton, H.Berresheim, H.Bingemer, M.Hutterli, J.McConnell, R.Bales, J.Dibb, M.Buhr, J.Park, P.McMurry, A.Swanson, S.Meinardi, D.Blake, 2004: An overview of ISCAT 2000. *Atmos. Env.*, **38**, 5363–5373.
- 2.39 **Oncley, S.P.**, M. Buhr, D.H. Lenschow, D. Davis, and S.R. Semmer, 2004: Observations of Summertime NO Fluxes and Boundary-Layer Height at the South Pole during ISCAT 2000 Using Scalar Similarity. *Atmos. Env.*, **38**, 5389–5398.
- 2.40 Horst,T.W., and **S.P. Oncley**, 2006: Corrections to Inertial-Range Power Spectra Measured by CSAT3 and Solent Sonic Anemometers, 1. Path-Averaging Errors. *Bound. Layer Meteor.*, **119**, 375–395.
- 2.41 Mauder, M., R.L.Desjardins, **S.P. Oncley**, I.MacPherson, 2007: Atmospheric Response to a Partial Solar Eclipse over a Cotton Field in Central California. *J. Appl. Meteorol. Climatol.*, **46**, 1792–1803.



- 2.42 Sun, J., S.P.Burns, A.C.Delany, **S.P. Oncley**, A.A.Turnipseed, B.B.Stephens, D.H.Lenschow, M.A.LeMone, R.K.Monson, D.E.Anderson, 2007: CO<sub>2</sub> transport over complex terrain. *Agric. For. Meteorol.*, **145**, 1–21.
- 2.43 **Oncley, S.P.**, T.Foken, R.Vogt, W.Kohsiek, H.A.R.DeBruin, C.Bernhofer, A.Christen, E.vanGorsel, D.Grantz, C.Feigenwinter, I.Lehner, C.Liebenthal, H.Liu, M.Mauder, A.Pitacco, L.Ribeiro, T.Weidinger, 2007: The Energy Balance Experiment EBEX-2000. Part I: Overview and Energy Balance. *Boundary-Layer Meteor.*, **123**, 1–28.
- 2.44 Mauder, M., **S.P. Oncley**, R.Vogt, T.Weidinger, L.Ribeiro, C.Bernhofer, T.Foken, W.Kohsiek, H.A.R.DeBruin, H.Liu, 2007: The Energy Balance Experiment EBEX-2000. Part II: Intercomparison of Eddy-Covariance Sensors and Post-Field Data Processing Methods. *Boundary-Layer Meteor.*, **123**, 29–54.
- 2.45 Kohsiek, W., C.Liebenthal, T.Foken, R.Vogt, **S.P. Oncley**, C.Bernhofer, H.A.R.DeBruin, 2007: The Energy Balance Experiment EBEX-2000. Part III: Behaviour and quality of the radiation measurements. *Boundary-Layer Meteor.*, **123**, 55–75.
- 2.46 Chen, F., K.W.Manning, M.A.LeMone, S.B.Trier, J.G.Alfieri, R.Roberts, M.Tewari, D.Niyogi, T.W.Horst, **S.P. Oncley**, J.B.Basara, P.D.Blanken, 2007: Evaluation of the Characteristics of the NCAR High-Resolution Land Data Assimilation System. *J. Appl. Meteor.*, **46**, 694–713. DOI 10.1175/JAM2463.1.
- 2.47 Whiteman, C.D., A. Muschinski, S. Zhong, D. Fritts, S.W. Hoch, M. Hahnenberger, W. Yao, V. Hohreiter M. Behn, Y. Cheon, C.B. Clements, T.W. Horst, W.O.J. Brown, and **S.P. Oncley**, 2008: METCRAX 2006 - Meteorological experiments in Arizona's Meteor Crater. *Bull. Amer. Meteorol. Soc.*, **89**, 1665–1680. DOI: 10.1175/2008BAMS2574.1.
- 2.48 Burns, S.P., A.C. Delany, J. Sun, B.B. Stephens, **S.P. Oncley**, G.D. Maclean, S.R. Semmer, J. Schröter, J. Ruppert, 2009: An Evaluation of Calibration Techniques for In Situ Carbon Dioxide Measurements Using a Programmable Portable Trace-Gas Measuring System. *J. Atmos. Ocean. Tech.*, **26**, 291–316.
- 2.49 **Oncley, S.P.**, K.Schwenz, S.P.Burns, J.Sun, R.K.Monson, 2009: A Cable-Borne Tram for Atmospheric Measurements Along Transects. *J. Atmos. Ocean. Tech.*, **26**, 462–473. DOI: 10.1175/2008JTECHA1158.1.
- 2.50 Sun, J., **S.P.Oncley**, S.Burns, B.Stephens, A.Watt, T.Campos, D.H.Lenschow, R.Monson, J.Hu, M.Tschudi, D.Schimmel, S.Aulenbach, W.J.Sacks, S.F.J.DeWekker, C.-T.Lai, B.Lamb, E.Allwine, T.Coons, D.Ojima, P.Z.Ellsworth, L.S.L.Sternberg, S.Zhong, C.Clements, D.Anderson, 2009: A Multi-Scale and Multi-Disciplinary Investigation of Ecosystem-Atmosphere CO<sub>2</sub> Exchange Over the Rocky Mountains of Colorado. *Bull. Amer. Meteorol. Soc.*, **91**, 209–230, DOI: 10.1175/2009BAMS2733.1.

- 2.51 Burns, S.P., J. Sun, D.H. Lenschow, **S.P. Oncley**, B.B. Stephens, C. Yi, D.E. Anderson, J. Hu, R.K. Monson, 2011: Atmospheric stability effects on wind fields and scalar mixing within and just above a sub-alpine forest in sloping terrain. *Bound. Layer Meteor.*, **138**, 231-262, DOI: 10.1007/s10546-010-9560-6.
- 2.52 Patton, E.G., T.Horst, D.Lenschow, P.Sullivan, **S. Oncley**, S.Burns, A.Guenther, A.Held, T.Karl, S.Mayor, L.Rizzo, S.Spuler, J.Sun, A.Turnipseed, E.Allwine, S.Edburg, B.Lamb, R.Avissar, H.Holder, R.Calhoun, J.Kleissl, W.J.Massman, K.T.Paw U, J.C.Weil, 2011: The Canopy Horizontal Array Turbulence Study. *Bull. Amer. Meteor. Soc.*, **92**, 593–611, DOI: 10.1175/2010BAMS2614.1.
- 2.53 Rajewsk, D.A., E.S.Takle, J.K.Lundquist, S.Oncley, J.H.Prueger, T.W.Horst, M.E.Rhodes, R.Pfeiffer, J.L. Hatfield, K.K.Spoth, R.K.Doorenbos, 2012: CWEX: Crop/Wind-energy Experiment: Observations of surface-layer, boundary-layer and mesoscale interactions with a wind farm. *Bull. Amer. Meteor. Soc.*, in revision.

### 7.3. Other Refereed Publications

- 3.1 Semmer, S.R., **S.P. Oncley**, C.L. Martin, T.W. Horst, A.C. Delany, W.F. Dabberdt, and J.A. Businger, 1991: A new research tool for surface exchange investigations: The NCAR Atmosphere–Surface Turbulent Exchange Research (ASTER) Facility. *Precipitation Scavenging and Atmosphere–Surface Exchange Processes*, ed. by S.E.Schwartz and W.G.N.Slinn, Hemisphere Pub. Corp., Washington, Vol. 2, 619-626.
- 3.2 **Oncley, S.P.**, 1999: The Leading Edge of Turbulence Instrumentation. in *Air-Sea Exchange - Physics, Chemistry, Dynamics, and Statistics*, Gerald L. Geernaert, ed., Kluwer Academic, Cambridge, 49-71.
- 3.3 Foken, T, R.Leuning, **S.P. Oncley**, M.Mauder, M.Aubinet, 2012: Corrections and data quality control. in *Eddy Covariance: A Practical Guide to Measurement and Data Analysis*, M.Aubinet, T.Vesala and D.Papale, ed., Springer, Dordrecht, pp. 85–131, DOI 10.1007/978-94-007-2351-1 1.

### 7.4. Journal Articles in Preparation or Submitted

- 4.1 **Oncley, S.P.**, W.J.Massman, E.G.Patton, 2012: Measurements of pressure transport of turbulence kinetic energy in a canopy during CHATS. *Bound. Layer Meteor.*, in prep.
- 4.2 **Oncley, S.P.**, O. Hartogensis, 2012: Observations of Pressure Perturbations Within Heat Devils. *J. Atmos. Sci.*, in prep.

### 7.5. Non-Refereed Publications

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- 5.2 **Oncley, S.**, V. Delnore, and J. Businger, 1982: A comparison between the scatterometer and direct measurements of surface stress. Amer. Geophys. Union, *Fall Meeting*, San Francisco CA, Dec. 7-15.
- 5.3 Zhang, S.F., **S.P. Oncley**, and J.A. Businger, 1988: A critical evaluation of the von Kármán constant from a new atmospheric surface layer experiment. *Eighth Symposium on Turbulence and Diffusion*, San Diego CA, April 26-29, American Meteorological Society.
- 5.4 **Oncley, S.P.**, J.A. Businger, C.A. Friehe, J.C. LaRue, E.C. Itsweire, and S.S. Chang, 1990: Surface layer profiles and turbulence measurements over uniform land under near-neutral conditions. *Ninth Symposium on Turbulence and Diffusion*, Roskilde, Denmark, April 30-May 3, American Meteorological Society.
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- 5.12 **Oncley, S.P.**, 1992: TKE dissipation measurements during the FLAT experiment. *Tenth Symposium on Turbulence and Diffusion*, Portland, OR, Sept. 29-Oct. 2, American Meteorological Society.
- 5.13 Wilczak, J.M., **S.P. Oncley**, and A.J. Bedard, 1992: Turbulent pressure fluctuations in the atmospheric surface layer. *Tenth Symposium on Turbulence and Diffusion*, Portland, OR, Sept. 29-Oct. 2, American Meteorological Society.
- 5.14 **Oncley, S.P.**, 1993: Book Review: Measurement of Temperature and Humidity. *Bull. Amer. Meteor. Soc.* **74**, 250-252.
- 5.15 Massman, W.J., J. Pederson, A. Delany, G. den Hartog, H.H. Neumann, D. Grantz, **S.P. Oncley**, and R. Pearson, Jr., 1993: A comparison of independent determinations of the canopy conductance for carbon dioxide, water vapor and ozone exchange at selected sites in the San Joaquin Valley of California. *Conference on Hydroclimatology*, Anaheim, CA, Jan. 17-22, American Meteorological Society.
- 5.16 Dabberdt, W.F., D. Parsons, C. Martin, J. Dudhia, Y.H. Kuo, **S. Oncley**, and J. van Baelen, 1993: Preliminary Tests of an integrated data assimilation and sounding system. *Fourth Conference on Global Change Studies*, Anaheim, CA, Jan. 17-20, American Meteorological Society.
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- 5.19 Praskovsky, A., and **S. Oncley**, 1993: The Komogorov constant and the inertial subrange scaling exponents at very high Reynolds numbers. *Forty-sixth Meeting of the American Physical Society*, Nov.' 21-23.
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- 5.33 Horst, T.W., **S.P. Oncley**, and S.R. Semmer, 1997: Measurement of water vapor fluxes using capacitance RH sensors and cospectral similarity. *Twelfth Symposium on Boundary Layers and Turbulence*, Vancouver, BC, Jul. 28-Aug. 1, American Meteorological Society, 360-361.
- 5.34 LeMone, M.A., **S. Oncley**, T. Horst, R.L. Grossman, J.K. Lundquist, R. McMillen, B. Hicks, R. Coulter, and G. Klazura, 1998: CASES-97: Diurnal variation of the fair-weather PBL. *Special Symposium on Hydrology*, Phoenix, AZ, Jan. 11-16, American Meteorological Society, 88-92.
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- 5.41 **Oncley, S.P.**, T. Foken, R. Vogt, C. Bernhofer, W. Kohsiek, H. Liu, A. Pitacco, D. Grantz, L. Riberio, 2002: The energy balance experiment EBEX-2000. *25th Conference on Agricultural and Forest Meteorology*, Norfolk, VA May 20-24, American Meteorological Society.
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- 5.71 **Oncley, S.P.**, S.Semmer, T.W.Horst, J.Militzer, G.Maclean, K.Knudson, C.Golubieski, and L.L.Dong, 2010: CentNet, A deployable 100-station network for surface exchange research. *15th Symposium Meteorological Observation and Instrumentation* Atlanta, GA, 17-21 Jan.
- 5.72 **Oncley, S.P.**, W.J.Massman, E.G.Patton, 2010: Direct observations of the turbulence kinetic energy budget within an orchard canopy. *19th Symposium on Boundary Layers and Turbulence*, Keystone, CO, 2-6 Aug., J1.2.
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- 5.76 **Oncley, S.P.**, O.Hartogenesis, C.Tong, 2011: Visualizing dust devils and other coherent structures in the atmospheric surface layer. *Coherent Flow Structures in Geophysical Flows at Earth's Surface*, Burnaby, BC, 4 Aug.
- 5.77 **Oncley, S.P.**, S.Semmer, T.W.Horst, J.Militzer, G.Maclean, K.Knudson, C.Golubieski, L.L.Dong, J.Wang, 2011: CentNet, A deployable 100-station network for surface exchange research. *International Union of Geodesy and Geophysics Conference, 2011*, Melbourne, Australia, 28 Jun.–7 Jul., J-M03/5124.00.
- 5.78 Rajewski, D.A., E.S.Takle, T.W.Horst, **S.P.Oncley**, J.K.Lundquist, M.E.Rhodes, and K.K.Spoth, 2012: Crop-Wind-Energy EXperiment 2011 (CWEX11) *16th Symposium on Meteorological Observation and Instrumentation*, New Orleans, LA, 24 Jan., 5.1.
- 5.79 Burns, S.P., J.Sun, D.H.Lenschow, **S.P.Oncley**, P.D.Blanken, 2012: Gravity Waves Within and Above a Subalpine Forest in Complex Terrain *20th Symposium on Boundary Layers and Turbulence*, Boston, MA, 8–13 Jul, P-32.