

Research focus: Basic and applied research on clouds and precipitation as well as analysis of large data sets at the intersection of observed environmental conditions, ecology, and infrastructure. I have extensive experience distilling large data sets and combining information from multiple types of observations including: multispectral satellite, radar, lidar and in situ meteorological measurements.

Professional Employment

- 2005- Distinguished Professor (2018-), Professor (2011-2018), Associate Professor (2007-2011) Assistant Professor (2005-2007), Department of Marine, Earth and Atmospheric Sciences, North Carolina State University, Raleigh, NC
- 1999-05 Research Associate Professor (2004-2005), Research Assistant Professor (1999-2004), Department of Atmospheric Sciences, University of Washington, Seattle, WA
- 1996-99 Research Scientist, Mesoscale Group, Department of Atmospheric Sciences, University of Washington, Seattle, WA
- 1988-90 Software Engineer III, Research Data Program, National Center for Atmospheric Research, Boulder, CO
- 1986-88 Technical Marketing Engineer, Graphics Division, Symbolics Inc., Los Angeles, CA
- 1983-86 Member of Technical Staff, Data Systems Laboratory, TRW Defense Systems Group, Redondo Beach, CA

Education

- 1996 Ph.D., University of Washington, Atmospheric Sciences.
- 1985-86 Additional coursework, University of Southern California, Artificial Intelligence and Probability Theory.
- 1983 B.S., Brown University, Geology-Physics/Mathematics, magna cum laude.

Editorships, Affiliations, Committees, Fellowships, and Awards

- 2017 *Fellow*, American Meteorological Society
- 2012- *Editor*, American Meteorological Society Journal of Applied Meteorology and Climatology
- 2017- Faculty Fellow at the Center for Geospatial Analytics, North Carolina State University
- 2016- Adjunct Professor, School of Marine and Atmospheric Sciences, Stony Brook University
- 2016- Affiliate Faculty, Department of Geography and Planning, Appalachian State University, North Carolina
- 2016 *Thank a Teacher* Recognition, North Carolina State University
- 2015- NCAR Earth Observing Laboratory Advisory Committee
- 2013 American Meteorological Society, Committee on Researcher Involvement in the AMS
- 2012 American Meteorological Society, Membership Subcommittee
- 2011-16 DOE Atmospheric System Research Science Team
- 2011-14 NASA MODIS Science Team
- 2010-14 NCAR Earth Observing Laboratory-Observing Facilities Assessment Panel
- 2009-10 DOE ARM Climate Research Facility Science Advisory Board Member

2009 NOAA National Severe Storms Laboratory Review Board Member
 2008-09 Co-chair, American Meteorological Society, 13th Conference on Mesoscale Processes
 2006-08 DOE ARM Climate Research Facility Science Advisory Board Member
 2006-11 American Meteorological Society, Mesoscale Processes Committee
 2005-07 Co-chair, Sierra Hydrometeorology Atmospheric River Experiment (SHARE) Scientific Steering Committee
 2005-07 World Meteorological Organization/IUGG Science Assessment of Aerosol Effects on Precipitation Working Group
 2005-06 NASA Global Precipitation Mission, Advisory Panel on Ground Measurements
 2003-05 NASA Global Precipitation Mission, Ground Validation International Steering Group
 2003 NASA Certificate of Appreciation for contributions to the Instrument Incubator Program and to the Earth Science Enterprise
 2001- American Geophysical Union, Atmospheric Sciences/Precipitation and Cloud Committee
 2001-03 Co-chair, NASA Global Precipitation Mission, Calibration and Validation of Satellite Precipitation Measurements Working Group
 2000-06 NASA Precipitation Measurement Missions Science Team
 1996 Promise of Excellence Award, Seattle Chapter, Women in Communications, Inc.
 1992-95 EOS Global Change Fellowship
 1990-92 NASA Space Grant Fellowship
 1983 Sigma Xi Scientific Research Society
 1979 Westinghouse Science Talent Search Honors for project on hydroponics for space missions.

Field Project Leadership

2014 Radar Observations of Storms for Education, Colorado, Chief Scientist
 2007- Stony Brook, NY, Meteorological Observatory, Co-chief Scientist
 2006-09 Poga Mountain, NC, Meteorological Observatory, Chief Scientist
 2001 EPIC Stratocumulus Study: Southeastern Pacific, NOAA Ship Ronald H. Brown, Senior Scientist
 1998-99 KWAJEX: Kwajalein, Marshall Islands, Project Science Coordinator, Project Scientist- NASA and NOAA project with over 100 scientists and engineers
 1997 PACS TEPPS: Tropical eastern Pacific, First research cruise of NOAA Ship Ronald H. Brown, Chief Scientist

Other Field Project Experience

2011-15 Wasatch Hydrometeor Aggregation and Riming Experiment, Alta, Utah, Radar Scientist
 2010 Inhibition of Snowfall by Pollution Aerosols: Colorado, Radar scientist
 2008 VAMOS Ocean Cloud Atmosphere Land Study (VOCALS): Southeastern Pacific, Radar scientist
 2004 HYDROMET 2004: California, Disdrometer scientist
 2003 PACJET 2003: California, Disdrometer scientist
 2001 IMPROVE II: Oregon, Disdrometer scientist
 1995 COAST II: Washington, Aircraft flight planning and mission summary preparation
 1993 COAST: Washington, Aircraft radar scientist and cloud physics scientist
 1992-93 TOGA-COARE: Honiara, Solomon Islands, Aircraft radar scientist and cloud physics scientist
 1991 CaPE: Florida, Doppler and dual polarization radar scientist, aircraft scientist, scan coordinator
 1988-90 Several field projects in Denver, CO area related to demonstration of Terminal Doppler Weather Radar (TDWR) and nowcasting for the FAA

Peer-reviewed articles and book chapters (underlined names are students, post-docs and science staff directly supervised)

- (78) Ganetis, S. A., B. A. Colle, S. E. Yuter, N. P. Hoban, 2018: Environmental conditions associated with observed snowband structures within northeast U.S. winter storms. *Mon. Wea. Rev.*, 146, 3675-3690, doi:10.1175/MWR-D-18-0054.1.
- (77) Yuter, S. E., J. D. Hader, M. A. Miller, D. B. Mechem, 2018: Abrupt cloud clearing of marine stratocumulus in the subtropical southeast Atlantic, *Science*, DOI: 10.1126/science.aar5836.
- (76) Endries, J. L., L. B. Perry, S. E. Yuter, A. Seimon, M. Andrade-Flores, R. Winkelmann, N. Quispe, M. Rado, N. Montoya, F. Velarde, and S. Arias, 2018: Radar-observed characteristics of precipitation in the tropical high Andes of southern Peru and Boliva. *J. Appl. Meteor. Clim.*, **57**, 1441-1458, DOI:10.1175/JAMC-D-17-0248.1
- (75) Mechem, D. B., C. S. Wittman, M. A. Miller, S. E. Yuter, and S. P. deSzoeki, 2018: Joint synoptic and cloud variability over the northeast Atlantic near the Azores. *J. Appl. Meteor. Clim.*, **57**, 1273-1290, DOI: 10.1175/JAMC-D-17-0211.1.
- (74) Perry, L. B., A. Seimon, M. Andrade, J. L. Endries, S. E. Yuter, F. Velarde, S. Arias, M. Bonshoms, E. J. Burton, R. Winkelmann, C. M. Cooper, G. Mamani, M. Rado, M. Montoya, M. Quispe, 2017: Modes of precipitation delivery in the Cordillera Vilcanoto of Peru and Cordillera Real of Bolivia. *Annals of the Assoc. of American Geographers*, **107**, 309-322. DOI: 10.1080/24694452.2016.1260439
- (73) deSzoeki, S. P., K. L. Verlinder, S. E. Yuter and D. B. Mechem, 2016: The timescales of variability of marine low clouds. *J. Climate*, doi: 10.1175/JCLI-D-15-0460.1
- (72) Molthan, A. L., B. A. Colle, D. Stark and S. E. Yuter, 2016: Comparisons among modeled and observed reflectivity and fall speeds for snowfall of varied riming degree during winter storms on Long Island, NY. *Mon. Wea. Rev.*, <http://dx.doi.org/10.1175/MWR-D-15-0397.1>.
- (71) Wood, R., M. P. Jensen, J. Wang, C. S. Bretherton, S. M. Burrows, A. D. Del Genio, A. M. Fridlind, S. J. Ghan, V. P. Ghate, P. Kollias, S. K. Krueger, R. L. McGraw, M. A. Miller, D. Painemal, L. M. Russell, S. E. Yuter, P. Zuidema: 2016: Planning the next decade of coordinated research to better understand and simulate marine low clouds. *Bull. Amer. Meteor. Soc.*, **97**, 1699-1702, DOI:10.1175/BAMS-D-16-0160.1
- (70) Yu, C.-K., P.-R. Hsieh, S. E. Yuter, L.-W. Cheng, C.-L. Tsai, and Y. Chen, 2016: Measuring droplet fall speed with a high-speed camera: Accuracy and outdoor applications. *Atmos. Meas. Tech.*, doi:10.5194/amt-9-1755-2016.
- (69) Burleyson, C. D. and S. E. Yuter, 2015: Sub-diurnal stratocumulus cloud fraction variability and sensitivity to precipitation. *J. Climate*. doi: 10.1175/JCLI-D-14-00648.1, **28**, 2968-2985.
- (68) Burleyson, C. D. and S. E. Yuter, 2015: Patterns of marine stratocumulus cloud fraction variability. *J. Appl. Meteor. Clim.* doi: 10.1175/JAMC-D-14-0178.1, **54**, 847-866.
- (67) Garrett, T. J, S. E. Yuter, C. Fallgatter, K. Shkurko, S. R. Rhodes, and J. L. Endries, 2015: Orientations and aspect ratios of falling snow. *Geophys. Res. Lett.*, doi:10.1002/2015GL064040.
- (66) Wilbanks, M., S. E. Yuter, S. P. deSzoeki, W. A. Brewer, M. A. Miller, A. M. Hall and C. D. Burleyson, 2015: Near-surface density currents observed in the southeast Pacific stratocumulus-topped marine boundary layer, *Mon. Wea. Rev.*, **143**, 3532-3555. 10.1175/MWR-D-14-00359.1

- (65) Wood, R., M. Wyant, C. S. Bretherton, J. Rémillard, P. Kollias, J. Fletcher, J. Stemmler, S. deSzoeko, S. Yuter, M. Miller, D. Mechem, G. Tselioudis, C. Chiu, J. Mann, E. O'Connor, R. Hogan, X. Dong, M. Miller, V. Ghate, A. Jefferson, Q. Min, P. Minnis, R. Palinkonda, B. Albrecht, E. Luke, C. Hannay, Y. Lin, 2015: Clouds, aerosol, and precipitation in the marine boundary layer: An ARM Mobile Facility deployment, *Bull. Amer. Met. Soc.*, **96**, 419-440.
- (64) Bluestein, H. B., R. M. Rauber, D. W. Burgess, B. Albrecht, S. M. Ellis, Y. P. Richardson, D. P. Jorgensen, S. J. Frasier, P. Chilson, R. D. Palmer, S. E. Yuter, W.-C. Lee, D. C. Dowell, P. L. Smith, P. M. Markowski, K. Friedrich and T. M. Weckwerth, 2015: Radar in atmospheric sciences and related research: Current systems, emerging technologies and future needs. *Bull. Amer. Met. Soc.*, **95**, 1850-1861.
- (63) Colle, B. A., D. Stark, and S. E. Yuter, 2014: Surface microphysical observations within East Coast winter storms on Long Island, NY. *Mon. Wea. Rev.*, **142**, 3126-3146.
- (62) Cunningham, J. G. and S. E. Yuter, 2014: Atmospheric characteristics of cool-season intermittent precipitation near Portland, Oregon. *Mon. Wea. Rev.*, **142**, 1738-1757.
- (61) Garrett, T. J. and S. E. Yuter, 2014: Observed influence of riming, temperature, and turbulence on the fall speed of solid precipitation. *Geophys. Res. Lett.*, doi:10.1002/2014GL061016.
- (60) Mechoso, C. R., R. Wood, R. Weller, C. S. Bretherton, A. D. Clarke, H. Coe, C. Fairall, J. T. Farrar, G. Feingold, R. Garreaud, C. Grados, J. C. McWilliams, S. P. deSzoeko, S. E. Yuter, and P. Zuidema, 2014: Ocean-cloud-atmosphere-land interactions in the southeastern Pacific: The VOCALS Program. *Bull. Amer. Met. Soc.*, **95**, 357-375.
- (59) Yuter, S. E., 2014: "Precipitation Radar" in the Encyclopedia of Atmospheric Sciences, 2nd edition, edited by G. R. North, J. Pyle and F. Zhang. Academic Press, London.
- (58) Biasutti, M. and S. E. Yuter, 2013: Observed frequency and intensity of tropical precipitation from instantaneous estimates. *J. Geophys. Res.*, **118**, 9534–9551, doi:10.1002/jgrd.50694.
- (57) Burleyson, C. D., S. P. deSzoeko, S. E. Yuter, M. Wilbanks and W. A. Brewer, 2013: Ship-based observations of the diurnal cycle of southeast Pacific marine stratocumulus clouds and precipitation. *J. Atmos. Sci.*, **70**, 3876-3894, doi:10.1175/JAS-D-13-01.1.
- (56) Kingsmill, D. E., P. J. Neiman, B. J. Moore, M. Hughes, S. E. Yuter, and F. M. Ralph, 2013: Kinematic and thermodynamic structures of Sierra barrier jets and overrunning atmospheric rivers during a land-falling winter storm in northern California. *Mon. Wea. Rev.*, **141**, 2015-2036.
- (55) Lin, Y., B. A. Colle, and S. E. Yuter 2013: Impact of moisture flux and freezing level on simulated orographic precipitation errors over the Pacific Northwest, *J. Hydromet.*, **14**, 140-152.
- (54) Miller, M. A. and S. E. Yuter, 2013: Detection and characterization of drizzle cells within marine stratocumulus using AMSR-E 89 GHz passive microwave measurements. *Atmos. Meas. Tech.*, **6**, 1-13, doi:10.5194/amt-6-1-2013.
- (53) Stark, D., B. A. Colle and S. E. Yuter, 2013: Observed microphysical evolution for two East Coast winter storms and the associated snow bands. *Mon. Wea. Rev.*, **141**, 2037-2057.
- (52) Yuter, S. E., M. A. Miller, M. D. Parker, P. M. Markowski, Y. Richardson, H. Brooks, and J. M. Straka, 2013: Comment on "Why do tornadoes rest on weekends?" by D. Rosenfeld and T. Bell. *J. Geophys. Res.*, doi:10.1029/2012JD018622.

- (51) Allen, G., G. Vaughan, T. Toniazzo, H. Coe, P. Connolly, S. E. Yuter, C. D. Burleyson, P. Minnis, and J. K. Ayers, 2013: Gravity wave--induced perturbations in marine stratocumulus, *Q. J. Roy. Met. Soc.*, doi:10.1002/qj.1952.
- (50) deSzoeki, S. P., S. E. Yuter, D. B. Mechem, C. W. Fairall, C. D. Burleyson, P. Zuidema 2012: Observations of stratocumulus clouds and their effect on the eastern Pacific surface heat budget along 20 °S, *J. Climate*, **25**, 8542-8567, 10.1175/jcli-d-11-00618.1.
- (49) Mechem, D. B., S. E. Yuter, and S. P. deSzoeki, 2012: Thermodynamic and aerosol controls in Southeast Pacific stratocumulus. *J. Atmos. Sci.*, **69**, 1250-1266.
- (48) Waliser, D. E., M. Moncrieff, D. Burridge, A. Fink, D. Gochis, B. N. Goswami, B. Guan, P. Harr, J. Heming, H.-H. Hsu, C. Jakob, M. Janiga, R. Johnson, S. Jones, P. Knippertz, J. Marengo, H. Nguyen, M. Pope, Y. Serra, C. Thorncroft, M. Wheeler, R. Wood, and S. Yuter, 2012: The "Year" of Tropical Convection (May 2008 to April 2010): Climate Variability and Weather Highlights, *Bulletin of the American Meteorological Society*, **93**, 1189-1218.
- (46) Biasutti, M., S. E. Yuter, C. D. Burleyson, and A. H. Sobel, 2011: Very high resolution rainfall patterns measured by TRMM Precipitation Radar. *Climate Dynamics*. 1-20, doi: 10.1007/s00382-011-1146-6
- (45) Sobel, A. H., C. D. Burleyson, and S. E. Yuter, 2011: Rainfall on small tropical islands. *J. Geophysical Research*, **116**, D08102, doi:10.1029/2010JD014695.
- (44) Wood, R., C. S. Bretherton, C. R. Mechoso, R. A. Weller, B. Huebert, B. Albrecht, H. Coe, G. Allen, G. Vaughan, P. Daum, C. Fairall, D. Chand, L. Gallardo Klenner, C. Grado Quispe, D. S. Covert, T. S. Bates, R. Krejci, F. Straneo, L. M. Russell, S. de Szoeki, A. Brewer, S. E. Yuter, A. Chaigneau, T. Toniazzo, P. Minnis, S. Abel, W. Brown, and S. Williams, 2011: The VAMOS Ocean-Cloud-Atmosphere-Land Study Regional Experiment (VOCALS-REx): Goals, platforms, and field operations. *Atmos. Chem. Phys.*, **11**, 627-654. doi:10.5194/acp-11-627-2011.
- (43) Yuter, S. E., D. A. Stark, J. A. Crouch, M. J. Payne and B. A. Colle, 2011: The impact of varying environmental conditions on the spatial and temporal patterns of orographic precipitation over the Pacific Northwest near Portland, Oregon., *J. Hydrometeorology*, **12**, 329-351.
- (42) Smith, B. L., S. E. Yuter, P. J. Neiman, and D. E. Kingsmill, 2010: Water vapor fluxes and orographic precipitation over Northern California associated with a land-falling atmospheric river. *Mon. Wea. Rev.*, **138**, 74-100.
- (41) Keighton, S., L. Lee, B. Holloway, D. Hotz, S. Zubrick, J. Hovis, G. Votaw, B. Perry, G. Lackmann, S. Yuter, C. Konrad, D. Miller, and B. Etherton, 2009: A collaborative approach to study northwest flow snow in the southern Appalachians. *Bull. Amer. Meteor. Soc.*, **90**, 979-991.
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- (38) Cifelli, R., S. W. Nesbitt, S. A. Rutledge, W. A. Petersen, and S. E. Yuter, 2008: Diurnal characteristics of precipitation features in the east Pacific: A comparison of the EPIC and TEPPS regions. *J. Climate*, **21**, 4068-4086.

- (37) Cotton, W. and S. Yuter, 2008: Ch 2—Principles of Cloud and Precipitation Formation in *Aerosol pollution impacts on precipitation: A scientific review*. WMO/IUGG International Aerosol Precipitation Science Assessment Group, Springer, 13-43.
- (36) Holder, C. T., S. E. Yuter, A. H. Sobel, and A. Aiyyer, 2008: The mesoscale characteristics of tropical oceanic precipitation during Kelvin waves and mixed-Rossby gravity waves. *Mon. Wea. Rev.*, **9**, 3446-3464.
- (35) Martner, B. E., S. E. Yuter, A. B. White, S. Y. Matrosov, D. E. Kingsmill, and F. M. Ralph: 2008: Raindrop size distributions and rain characteristics in California coastal rainfall for periods with and without a radar brightband. *J. Hydrometeorology*, **9**, 408-425.
- (34) Miller, M. A., and S. E. Yuter, 2008: Lack of correlation between chlorophyll a and cloud droplet effective radius in shallow marine clouds. *Geophys. Res. Lett.*, **35**, L13807, doi:10.1029/2008GL034354.
- (33) Novak, D. R., B. A. Colle, S. E. Yuter, 2008: A high resolution observational and modeling study of an intense mesoscale snowband over the northeast U.S. *Mon. Wea. Rev.*, **136**, 1433–1456.
- (32) Tanré, D., P. Artuxo, S. Yuter, and Y. Kaufman, 2008: Ch 5—In Situ and Remote Sensing Techniques for Measuring Aerosols, Clouds, and Precipitation in *Aerosol pollution impacts on precipitation: A scientific review*. WMO/IUGG International Aerosol Precipitation Science Assessment Group, Springer, 143-203.
- (31) Cifelli, R., S. Nesbitt, S. A. Rutledge, W. A. Petersen, and S. Yuter, 2007: Radar characteristics of precipitation features in the EPIC and TEPPS regions of the East Pacific. *Mon. Wea. Rev.*, **135**, 1576-1595.
- (30) Colle, B. A., and S. E. Yuter, 2007: The impact of coastal boundaries and small hills on the precipitation distribution across southern Connecticut and Long Island, NY. *Mon. Wea. Rev.*, **135**, 933-954.
- (29) Comstock, K., S. E. Yuter, R. Wood, and C. S. Bretherton, 2007: The three-dimensional structure and kinematics of drizzling stratocumulus. *Mon. Wea. Rev.*, **135**, 3767-3784.
- (28) Swann, A., A. H. Sobel, S. E. Yuter, and G. N. Kiladas, 2006: Observed radar reflectivity in convectively coupled Kelvin and Mixed Rossby-gravity waves. *GRL*, **33**, L10804, doi:10.1029/2006GL025979.
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- (26) Comstock, K. K., C. S. Bretherton, and S. E. Yuter, 2005: Mesoscale variability and drizzle in southeast Pacific stratocumulus. *J. Atmos. Sci.* **62**, 3792-3807.
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- (15) Yuter, S. E., and W. S. Parker, 2001: Rain measurement on ship revisited: the 1997 PACS TEPPS cruise. *J. Appl. Meteor.*, **40**, 1003-1018.
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Reports (not peer-reviewed)

Burleyson, C. D., S. E. Yuter, and L. Rose, 2011: Atmospheric Observations Feasibility Study for the Lake Victoria Basin Commission. 16 pp.

Yuter, S. E., J. Koistinen, S. Di Michele, M. Hagen, A. Illingworth, S. Shimizu, and D. Wolff, 2004: GPM Ground Validation Basic Radar Products and Implications for Observation Strategies. Accessible at: www.arxiv.org, arXiv:physics/0401101, 11 pp.

Adkins, W., and S. E. Yuter, 2002: Report on Potential Tropical Open Ocean Precipitation Validation Sites, NASA Global Precipitation Mission Reports, *NASA/TM-2002-210010*, 77 pages.

Yuter, S., R. Houze, V. Chandrasekar, E. Foufoula-Georgiou, M. Hagen, R. Johnson, D. Kingsmill, R. Lawrence, F. Marks, S. Rutledge, and J. Weinman, 2002: GPM Draft Science Implementation Plan Ground Validation Chapter. Accessible at www.arxiv.org, arXiv:physics/0211095, 22 pp.

Yuter, S. E., 1984: Preliminary results of albedo correlation between Europa and Ganymede. *Advances in Planetary Geology*, NASA TM-86247, 212-216.

Funded Research Grants: total of over \$6M since July 2000

start date	end date	agency	title	role	collaborators	amount (\$)
Aug-19	Jul-22	NSF	Collaborative Research: Extensive Field Observations and Modeling to Understand Multi-band Precipitation Processes within Winter Storms	PI	Colle-Stony Brook University	404,434
Jun-19	Dec-20	Delta Air Lines	Delta Air Lines Task Order (Meteorology: Weather Prediction Model Verification)	PI		156,000

Jan-19	Dec-23	NASA	The Investigation of Microphysics and Precipitation for Atlantic Coastal Threatening Snowstorms (IMPACTS)	PI	McMurdie-University of Washington	519,510
Nov-18	Jun-19	NCSU-STEM Education Initiative	Campus-scale weather data to compare to conceptual models of daily and storm passage air temperature and humidity changes	PI		2700
Nov-17	Jun-18	NCSU-STEM Education Initiative	Visualization of the movements of air that underlie weather	PI		2700
July-17	Jul-20	NSF	Collaborative Research: Mechanisms governing synoptic-scale, rapid cloud dissipation in subtropical marine low clouds	PI	Mechem-U. Kansas	460,187
Sep-15	Aug-18	subcontract from Stony Brook U (NASA prime)	Nowcasting severe storm evolution and tracking storm life cycles in the northeast United States using GOES-R	PI	French- Stony Brook University	90,000
Feb-14	Jan-19	NSF	Collaborative Research: Observations and modeling of mesoscale precipitation banding in cool-season storms	PI	Colle-Stony Brook University	462,319
Mar-14	Feb-17	NSF	Real examples of classic storm structures for classroom use based on data from FRONT-PORCH	PI		92,479
Sep-13	Aug-17	NSF	Flipping the Script: Using short videos to promote learning in introductory geoscience courses	co-PI	PI-McConnell NCSU	10,000 (Yuter portion)
Sep-11	Jul-14	NOAA	Cooperative Institute for Climate and Satellites (CICS) - Yuter subcontract	PI		125,180
Sep-11	Sep-16	DOE	Collaborative Research: Cloudiness transitions within marine clouds near the Azores	PI	Mechem - U Kansas and deSzoeki Oregon State	510,182
Sep-11	Aug-15	NSF	Collaborative Research: The Wasatch Hydrometeor Aggregation and Riming Experiment	PI	Garrett - U. Utah	129,546
Apr-11	Sep-11	Lake Victoria Basin Commission	Strengthening Meteorological Services on Lake Victoria to enhance safety of navigation and exploitation of natural resources	co-PI	PI-Semazzi-NCSU	130,000 (Yuter portion)
Sep-10	Aug-13	NASA	NASA Space and Earth Science Fellowship Casey Burleyson	PI		90,000

Sep-10	Feb-15	NASA	Global characteristics of marine stratocumulus clouds and drizzle	PI		337,985
Sep-09	Aug-12	NSF	Collaborative Research: Intermittent and steady state processes in orographic precipitation	PI	Colle-Stony Brook University	345,879
Aug-09	Aug-10	ASTREC	Optimal reconfiguration of multiple small satellites for environmental monitoring	PI	Rao-University of Florida	12,800
Dec-08	Nov-11	NSF	Collaborative Research: Inhibition of snowfall by pollution aerosols	PI	Cotton-Colorado State	69,467
Jun-08	Jun-12	NOAA	Collaborative Research: Ship-based observations of air-sea interactions and stratocumulus cloud-aerosol-drizzle processes in VOCALS	PI	Fairall-NOAA, deSzeoke Oregon State	298,764
Jan-08	Dec-08	UNC-GA	Improving snowfall forecasts in western North Carolina	PI	Perry-Appalachian State	18,614
Sep-07	Sep-10	NASA	NASA Space and Earth Science Fellowship Matthew Miller	PI		83,960
Feb-06	Jan-10	NSF	Average and variability characteristics of orographic precipitation at multiple scales	PI		330,000
Nov-03	Nov-04	NASA	Global and local site oceanic precipitation validation	PI		158,000
Nov-03	Nov-04	NASA	GPM oceanic validation leading to PDR	PI		130,000
May-02	Jun-06	NSF	Scale and characteristics of convective processes in orographic rainfall	PI		404,444
Mar-01	Feb-04	NSF	Soundings, C-band radar, data synthesis and model intercomparisons for the EPIC 2001 stratocumulus study	co-PI	Bretherton, Wood-University of Washington	178,149
Jul-00	Jun-04	NASA	Joint probability analysis of the natural variability of oceanic precipitation	PI		512,000

Courses taught at North Carolina State University:

Dr. Yuter uses research-validated teaching methods, including extensive use of active learning, in all of her classes:

Introduction to Atmospheric Sciences (MEA 215, 4 credit course with laboratory). Weather and climate introductory course for science and engineering majors and the gateway course for a minor or major in meteorology. Also a required course for a minor in Health Physics. Taught every spring starting 2016.

Introduction to Atmospheric Sciences I (MEA 213, 2-credit course with laboratory) taught every fall from 2006 until 2014.

Introduction to Meteorological Remote Sensing (MEA 511, 3-credit course for upper level undergraduates and graduate students), taught 11 times from 2006 to 2018. Features a semester long project to design and justify a radar observing system for an assigned season and location in the U.S.

This class is also an elective in the Master of Geospatial Information Science and Technology program.

Atmospheric Convection (MEA 714, 3 credit graduate course), co-taught with Dr. Matthew Parker and offered alternate fall semesters. Yuter taught 100% of this course in Fall 2014 when Parker was on sabbatical.

Dynamics of Mesoscale Convective Systems (MEA 715, 3 credit graduate course), co-taught with Dr. Matthew Parker and offered alternate fall semesters.

Courses taught at University of Washington:

Meteorological Instruments and Observations (upper level undergraduate course, co-taught with Dr. Dean Hegg)

Boundary Layer Meteorology (upper level undergraduate course).

Faculty Development Workshops:

ADVANCE-GEO Workshop on Strategies for Responding to Harassment and Improving our Workplace Climate (23 March 2019), arranged for funding from Department and College and hosted workshop.

NCSU Building Future Faculty Program (20 March 2015), Presenter and Panelist.

On the Cutting Edge: *Preparing for an Academic Career in the Geosciences Workshop* (June 27-30, 2012, Chapel Hill NC), Workshop Leader.

Invited talks (last 3 years):

Central North Carolina Chapter of the AMS: Snow characteristics, storm structures, and velocity waves in coastal Northeast U.S. winter storms, 17 Jan 2019, Raleigh, NC

National Weather Service Eastern Region, Winter 2018-2019 Professional Development Day: Snow characteristics, storm structures, and velocity waves in coastal Northeast U.S. winter storms, 14 Nov 2018, 45 min presentation via GoToMeeting.

Columbia University SEAS Colloquium in Climate Science: Abrupt cloud clearing of marine stratocumulus in the subtropical southeast Atlantic. 8 Nov 2018, New York City, NY

Stony Brook University School of Marine and Atmospheric Sciences: Snow characteristics, storm structures, and velocity waves in coastal Northeast U.S. winter storms. 6 Sept 2018, Stony Brook, NY.

University of Utah Department of Atmospheric Sciences: Snow characteristics, storm structures, and velocity waves in coastal Northeast U.S. winter storms. 21 Feb 2018, Salt Lake City, UT.

University of North Carolina at Charlotte Department of Geography and Earth Sciences: Spatial frameworks for analysis of clouds and storms, 15 Feb 2018, Charlotte, NC.

Gordon Research Conference on Radiation and Climate: Rapid Rollbacks of Marine Stratocumulus Clouds off the West Coast of Subtropical Africa, 19 July 2017, Lewiston, ME.

Center for Geospatial Analytics Forum, NCSU: Spatial frameworks for analysis of clouds and storms, 6 April 2017, Raleigh, NC.

Robert A. Houze, Jr., Symposium at 97th American Meteorological Society Annual Meeting: Reflections on radar observations of mesoscale precipitation. 24 Jan 2017, Seattle, WA

Supervision of Graduate Students (chair or co-chair of committee)

University of Washington, Department of Atmospheric Sciences

Ph. D. Kimberly Comstock, 2006: Mesoscale variability and drizzle in southeast Pacific stratocumulus. Co-advised with Christopher Bretherton.

North Carolina State University, Department of Marine, Earth, and Atmospheric Sciences

- Ph. D. Matthew A. Miller, 2010: Satellite observations of low marine clouds. Funded in part by a NASA Earth and Space Science Fellowship.
- Ph.D. Jeffrey G. Cunningham, 2012: Atmospheric characteristics of cool season intermittent precipitation near Portland, Oregon. Funded by the U.S. Air Force.
- Ph.D. Casey D. Burleyson, 2013: Environmental controls on stratocumulus cloud fraction. Funded in part by a NASA Earth and Space Science Fellowship.
- M.S. Christopher T. Holder, 2007: The mesoscale characteristics of tropical oceanic convection within Kelvin and mixed Rossby-gravity wave events.
- M.S. Matthew A. Miller, 2007: Evaluation of TRMM satellite precipitation retrievals and satellite-observed characteristics of marine shallow clouds.
- M.S. M. Jordan Payne, 2007: Three-dimensional microphysical and dynamical structures of winter storms in the U.S. Pacific Northwest.
- M.S. Barrett L. Smith II, 2007: The interaction of moisture fluxes and orographic precipitation over the mountains of northern California associated with a landfalling atmospheric river.
- M.S. Justin A. Crouch, 2009: Multi-season observational study of the thermodynamic, kinematic and precipitation structures within flooding and typical storms in the Oregon Cascades.
- M.S. Margaret L. Frey, 2013: Regional and interannual comparisons of marine stratocumulus precipitation.
- M.S. Matt C. Wilbanks, 2013: Near surface density currents observed in the southeast Pacific stratocumulus-topped marine boundary layer.
- M. S. Andrew M. Hall, 2014: Lifecycle characteristics of marine stratocumulus precipitation in the southeast Pacific.
- M.S. Nicole A. Corbin, 2016: Northern California's Central Valley spatial precipitation patterns associated with atmospheric rivers under different environmental conditions.
- M. S. John D. Hader, 2016: Propagating, cloud-eroding boundaries in southeast Atlantic marine stratocumulus.
- M.S. Nicole P. Hoban, 2016: Observed characteristics of mesoscale banding in coastal northeast U.S. snow storms.

Current graduate students: Laura Kent, Spencer Rhodes, Laura Tomkins

Advisor for non-thesis M.S. (dates are year when degree was completed): Katherine Rojowsky, 2010; John L'Heureux, 2012; Nan Zhang, 2012; Victoria Olivia, 2013, Christopher Harmon 2017.

Graduate committee member for students outside of NCSU: Kristin Goris (Ph. D., Duke U., 2009), David Stark (M.S., Stony Brook U., 2012), Sara Ganetis (Ph.D., Stony Brook U., 2017), Jason Endries (M.S., Appalachian State U., 2017), Laura Tomkins (M.S., U. Kansas, 2019).

Undergraduate research assistants supervised at NCSU (* denotes presented poster at University Research Symposium and/or other conference): Casey Burleyson* (2006-07), David Stark* (2007-09), M. Tai

Bryant* (2007-15), Lara Pagano (2007-08), John Boyer* (2007), Kevin Smith (2007), Jay Bozeman (2007), Clay McGee* (2008-10), Christina Aldereguia* (2009-10), Andrew Hall* (2009-11) Jeremy Freeman (2009-10), Matt Woelfle (2010-12), Cameron White* (2011), Jennifer Dean (2012-13), Megan Amanatides* (2014-15), Sara Berry* (2014-15), Jason Endries* (2014-15), Spencer Rhodes* (2014-2016), Siu Kei (Edward) Chan* (2015-16), Emma Scott* (2015-17), Laura Tomkins* (2015-17), Levi Lovell* (2015-18), Luke Allen* (2017-18), Daniel Hueholt* (2017-), Lindsay Hochstatter* (2017-2019), Ronak Patel* (2018-), Toby Peele (2019-), Tyler McCarthy (2019-).

Conference Abstracts (underlined names are students, post-docs and scientific staff directly supervised)

- Rhodes, S., S. E. Yuter, M. A. Miller, R. N. Patel, D. B. Mechem, and L. M. Tomkins, 2019: Large-scale environments associated with marine stratocumulus cloud-eroding boundaries. *Abstracts, 18th Conference on Mesoscale Processes*, July 2019, Savannah, GA.
- Tomkins, L. M., D. B. Mechem, S. R. Rhodes, S. E. Yuter and M. A. Miller, 2019: Exploring mechanisms of stratocumulus clearing over the southeast Atlantic. *Abstracts, 18th Conference on Mesoscale Processes*, July 2019, Savannah, GA.
- Yuter, S. E., D. M. Hueholt, M. A. Miller, P. C. Kennedy, S. R. Rhodes, M. T. Bryant, and R. N. Patel, 2019: Local environments for ice growth in winter storms. *Abstracts, 18th Conference on Mesoscale Processes*, July 2019, Savannah, GA.
- Rhodes, S., L. Hochstatter, M. A. Miller, S. E. Yuter, 2019: Motion characteristics of propagating cloud-eroding boundaries in the subtropical southeast Atlantic. *Abstracts, AMS 18th Annual Student Conference*, January 2019, Phoenix, AZ.
- Hueholt, D., S. E. Yuter, M. A. Miller, L. Lovell and P. Kennedy, 2019: High-resolution spatial and temporal observations of generating cells and waves in Colorado snowstorms. *Abstracts, AMS 18th Annual Student Conference*, January 2019, Phoenix, AZ.
- Patel, R. N., S. E. Yuter, M. A. Miller, 2019: Variability of the urban heat island in Raleigh, NC. *Abstracts, AMS 18th Annual Student Conference*, January 2019, Phoenix, AZ.
- Tomkins, L. M., D. B. Mechem, S. E. Yuter, M. A. Miller and S. Rhodes, 2019: WRF simulations of episodes of stratocumulus clearing over the southeast Atlantic. *Abstracts, AMS Symposium on Aerosol-Cloud-Climate Interactions*, January 2019, Phoenix, AZ.
- Miller, M.A., N. P. Hoban, and S. E. Yuter, 2018: Detecting waves in Doppler radial velocity observations. *Abstracts, AGU Fall 2018 Meeting*, 10 Dec 2018, Washington, D.C.
<https://agu.confex.com/agu/fm18/meetingapp.cgi/Paper/420923>
- Allen, L. S. E. Yuter, L. Tomkins and M. A. Miller, 2018: Snow band movement and rain occurrence in northeast U.S. winter storms. *Abstracts, AMS 17th Annual Student Conference*, January 2018, Austin, TX.
- Hueholt, D., S. E. Yuter, M. A. Miller, L. Lovell and L. Allen, 2018: Characteristics of temperature inversions in wintery mix precipitation events. *Abstracts, AMS 17th Annual Student Conference*, January 2018, Austin, TX.
- Lovell, L., S. E. Yuter, M.A. Miller and E. Scott, 2018: Snowflake mixtures in coastal northeast United States winter storms. *Abstracts, AMS 17th Annual Student Conference*, January 2018, Austin, TX.
- Ganetis, S. A., B. A. Colle, N. P. Hoban, and S. E. Yuter, 2017: Environmental conditions and physical processes for snowbands in Northeast U.S. winter storms. *Abstracts, 18th Cyclone Workshop*, 1-6 October 2017, Sainte-Adèle, Québec, Canada.
- Ganetis, S. A., B. A. Colle, N. P. Hoban, and S. E. Yuter, 2017: Environmental conditions promoting snowbands in Northeast U.S. winter storms. *Abstracts, 17th Conference on Mesoscale Processes*, 24-27 July 2017, San Diego, CA.
- Ganetis, S. A., B. A. Colle, N. P. Hoban, and S. E. Yuter, 2017: Multi-bands in the Comma Head of the 26-27 December 2010 Northeast U.S. Winter Storm. *Abstracts, 17th Conference on Mesoscale Processes*, 3-6 24-27 July 2017, San Diego, CA.
- Miller, M. A., S. E. Yuter, S. Rhodes, E. Scott, L. Lovell, B. A. Colle, L. Allen, M.T. Bryant, D. M. Hueholt and L. M. Tomkins, Complex aggregates within coastal northeast U.S. snow storms. *Abstracts, 17th Conference on Mesoscale Processes*, 3-6 24-27 July 2017, San Diego, CA.

- Yuter, S. E., N. P. Hoban, S. A. Ganetis, M. A. Miller, B. A. Colle, L. M. Tomkins, L. Lovell, E. M. Scott, L. R. Allen, D. M. Hueholt, and M. T. Bryant, 2017: Snow bands and velocity waves within northeast U.S. snow storms. *Abstracts, 17th Conference on Mesoscale Processes*, 3-6 24-27 July 2017, San Diego, CA.
- Endries, J. L., L. B. Perry, S. Yuter, A. Seimon, M. Andrade, G. Mamani, M. Bonshoms, F. Velarde, R. Winkelmann, M. Chchills, N. Montoya, and S. Arias, 2017: Vertical structure and characters of precipitation in the tropical high Andes of Bolivia and southern Peru., *Abstracts, Robert A. Houze, Jr., Symposium at 97th American Meteorological Society Annual Meeting*, January 2017, Seattle, WA.
- Ganetis, S. A., B. A. Colle, N. P. Hoban, and S. E. Yuter, 2017: Environmental conditions promoting snow bands in Northeast U.S. winter storms. *Abstracts, 28th Conference on Weather Analysis and Forecasting*, January 2017, Seattle, WA.
- Ganetis, S. A., B. A. Colle, N. P. Hoban, and S. E. Yuter, 2017: Investigation of multi-bands in the comma head of the 26-27 December 2010 Northeast U.S. winter storm. *Abstracts, 28th Conference on Weather Analysis and Forecasting*, January 2017, Seattle, WA.
- Hoban, N. P., S. E. Yuter, L. Tomkins, S. A. Ganetis, M. A. Miller, L. Lovell, S. R. Rhodes, E. Scott, and B. A. Colle, 2017: Observed characteristics of mesoscale banding in coastal northeast U.S. snow storms. *Abstracts, 28th Conference on Weather Analysis and Forecasting*, January 2017, Seattle, WA.
- Tomkins, L., N. Hoban, M. Miller and S. Yuter, 2017: Storm-relative movements of mesoscale snow bands within coastal Northeast U.S. storms. *Abstracts, AMS 16th Annual Student Conference*, January 2017, Seattle, WA.
- Yuter, S. E., and D. B. Mechem, 2017: Reflections on radar observations of mesoscale precipitation. *Abstracts, Robert A. Houze, Jr., Symposium at 97th American Meteorological Society Annual Meeting*, January 2017, Seattle, WA.
- Corbin, N. A., S. E. Yuter and D. E. Kingsmill, 2016: Spatial precipitation patterns associated with atmospheric river storms over the complex terrain of Northern California. *Abstracts, AMS 17th conference on Mountain Meteorology*. June 2016, Burlington, VT.
- Amanatides, M., S. Berry, N. A. Corbin, J. Endries, M. A. Miller, and S. E. Yuter, 2015: Radar observations of storms for education. *Abstracts, 14th Annual AMS Student Conference*, 4 Jan 2015, Phoenix, AZ.
- Ganetis, S. A., B. A. Colle, N. P. Hoban, S. E. Yuter and N. A. Corbin, 2015: Simulations of Multi-bands in the Comma Head of Northeast U.S. Winter Storms. *Abstracts, 16th Conference on Mesoscale Processes*, 3-6 August 2015, Boston, MA.
- Hoban, N. P., S. E. Yuter, S. A. Ganetis, B. A. Colle, and N. A. Corbin, 2015: Observed characteristics of mesoscale snow bands in the coastal northeast U.S. *Abstracts, 16th Conference on Mesoscale Processes*, 3-6 August 2015, Boston, MA.
- Miller, M. A., M. L. Frey and S. E. Yuter, 2015: Regional and interannual comparisons of marine stratocumulus precipitation detected using an AMSR-E 89-GHz passive microwave based method. *Abstracts, 20th Conference on Satellite Meteorology and Oceanography, AMS Annual Meeting*, Jan 2015, Phoenix, AZ.
- Rhodes, S., J. Endries and S. Yuter, Atmospheric conditions and processes associated with different degrees of snowflake riming. *Abstracts, 14th Annual AMS Student Conference*, 4 Jan 2015.
- Scott, E., J. Endries, M. T. Bryant and S. Yuter, 2015: Freshly falling snow: Identifying new snowflake geometries from photographs. *AGU Virtual Poster Showcase*, Nov 2015. Third prize winner.
- Yuter, S. E. , N. A. Corbin, M. A. Miller, S. M. Ellis and P. C. Kennedy, 2015: Radar Observations of Storms for Education: A bridge between idealized conceptual diagrams and real weather. *Abstracts, 24th Symposium on Education, AMS Annual Meeting*, 4-8 Jan 2015, Phoenix, AZ.
- Yuter, S. E., N. A. Corbin, M. A. Miller, S. M. Ellis and P. C. Kennedy, 2015: Radar Observations of Storms for Education: Real storm examples for the mesoscale course classroom. *Abstracts, 16th Conference on Mesoscale Processes*, 3-6 August 2015, Boston, MA.
- Yuter, S. E., 2015: Mysterious marine stratocumulus. *Abstracts, AGU Fall Meeting*, Dec 2015.
- Garrett, T. J. and S. E. Yuter, 2014: Multi-Angle Snowflake Camera observations of the effects of turbulence and temperature on hydrometeor fallspeed. *Abstracts, 14th AMS Conference on Cloud Physics*, Boston, MA, July 2014.

- Yuter, S. E. and T. J. Garrett, 2014: Observed influence of riming, temperature, and turbulence on the fallspeed of solid precipitation. *Abstracts, AGU Fall Meeting*, Dec 2014.
- Colle, B, A. Molthan, R. Yu, D. Stark and S. Yuter, 2013: Evaluation of model microphysics within precipitation bands of extratropical cyclones, *Abstracts, AGU Fall Meeting*, Dec 2013.
- deSzoek, S. P., D. B. Mechem, and S. E. Yuter, 2013: The relationship between lower tropospheric stability and marine stratiform cloudiness from seasonal to daily time scales. *Abstracts, AGU Fall Meeting*, Dec 2013.
- Hall, A. M., and Yuter, S.E., 2013: Lifecycle characteristics of drizzle cells in the southeast Pacific. *Abstracts, 15th Conference on Mesoscale Processes.*, 6-9 Aug. 2013, Portland, OR.
- Perry, L.B., S.J. Keighton, L.G. Lee, D.K. Miller, S.E. Yuter, C.E. Konrad, M.T. Bryant. 2013. Synoptic influences on snowfall event characteristics in the southern Appalachian Mountains. Proceedings of the 70th Eastern Snow Conference, 4-6 June 2013, Huntsville, ON, 141-157.
- Yuter, S.E., 2013: Atmospheric characteristics of cool-season intermittent precipitation near Portland, Oregon. *Abstracts, 15th Conference on Mesoscale Processes.*, 6-9 Aug. 2013, Portland, OR.
- Burleyson, C. D, S. E. Yuter and M. A. Miller, 2012: Observations of cloud fraction variability within southeast Pacific marine stratocumulus clouds. *Abstracts, AGU Fall Meeting*, Dec 2012.
- Frey, M., S. E. Yuter, and M. A. Miller, 2012: Regional comparisons of marine stratocumulus precipitation patterns. *Abstracts, AGU Fall Meeting*, Dec 2012.
- Hardin, N. R., S. E. Yuter and K. Friedrich and D. E. Kingsmill, 2012: Characteristics of orographic snowfall in a high altitude environment. *Abstracts, 15th Conference on Mountain Meteorology*, Steamboat Springs, CO, 20-24 August 2012.
- Kingsmill, D. E., P. Neiman, B. Moore. M. Hughes, S. Yuter and M. Ralph, 2012: Kinematic and thermodynamic structure of the Sierra Barrier Jet during a land-falling winter storm in northern California *Abstracts, 15th Conference on Mountain Meteorology*, Steamboat Springs, CO, 20-24 August 2012.
- Yuter, S. E., T. J. Garrett, C. Fallgatter, K. Shkurko, D. Howlett, J. Dean and N.R. Hardin, 2012: A new instrument for high resolution stereoscopic photography of falling hydrometeors with simultaneous measurement of fall speed. *Abstracts, AGU Fall Meeting*, Dec 2012.
- Biasutti, M., A. H. Sobel, S. E. Yuter, C. D. Burleyson, 2011: Frequency and intensity of precipitation events as seen by the TRMM Precipitation Radar. *Abstracts, AGU Fall Meeting*, Dec 2011.
- Allen, G., G. Vaughan, T. Toniazzo, H. Coe, P. Connolly, S. E. Yuter, C. D. Burleyson, P. Minnis, and J. K. Ayers, and C. D. Burleyson, 2011: Mesoscale variability of turbulence-generating mechanisms in southeast-Pacific stratocumulus. *Abstracts, 14th Conference on Mesoscale Processes.*, 1-4 Aug. 2011, Los Angeles, CA.
- Colle, B. A., D. A. Stark, and S. E. Yuter, 2011: An observed and simulated cloud microphysical perspective of snowbands within coastal Northeast U.S. winter storms. *Abstracts, 14th Conference on Mesoscale Processes.*, 1-4 Aug. 2011, Los Angeles, CA.
- Cunningham, J. G., S.E. Yuter, and B.A. Colle, 2011: Examining the nature and impact of Pacific Northwest cool season intermittent precipitation using objective radar tracking. *Abstracts, 14th Conference on Mesoscale Processes.*, 1-4 Aug. 2011, Los Angeles, CA.
- deSzoek, S. P., N. Elmer, C. D. Burleyson, P. Zuidema, S. E. Yuter, C. W. Fairall, 2011: The eastern pacific diurnal cycle of clouds, solar forcing, and tropospheric waves. *Abstracts, AGU Fall Meeting*, Dec 2011.
- Hardin, N. R., S. E. Yuter and K. Friedrich, 2011: Observed vertical structure of snow storms in Steamboat Springs, CO: Orographic enhancement in a high altitude environment. *Abstracts, 24th Conference on Weather and Forecasting.*, 23–27 Jan. 2011, Seattle, WA.
- Hardin, N.R., S.E. Yuter, A.M. Hall, J.G. Cunningham, and B.A. Colle, 2011: Observed vertical structure of snow storms in Steamboat Springs, CO: Orographic enhancement in a high altitude environment. *Abstracts, 14th Conference on Mesoscale Processes.*, 1-4 Aug. 2011, Los Angeles, CA.
- Kingsmill, D., P. J. Neiman, S. E. Yuter, M. A. Hughes, B. Moore, 2011: Three-dimensional structure and evolution of the Sierra Barrier Jet: A CalWater case study from 14-16 February 2011. *Abstracts, AGU Fall Meeting*, Dec. 2011.
- McConnell, D. A., S. E. Yuter, C. D. Burleyson, N. R. Hardin, K. Ryker and J. A. Stempien, 2011: Building successful self-regulated learners: What 2000+ students have to tell us. *Abstracts, 2011 GSA Annual Meeting*, 9–12 October 2011, Minneapolis, MN.

- Stark, D. A., B. A. Colle and S. E. Yuter, 2011: Microphysical evolution within snow storms over Long Island, NY. *Abstracts, 24th Conference on Weather and Forecasting*, 23–27 Jan. 2011, Seattle, WA.
- Yuter, S.E., A. M. Hall, C. D. Burleyson, D. Leon and A. Brewer, 2011: Long-lived drizzle cells in inversion-topped boundary layers. *Abstracts, 14th Conference on Mesoscale Processes.*, 1-4 Aug. 2011, Los Angeles, CA.
- Yuter, S. E., A. M. Hall, J. G. Cunningham, N. R. Hardin and B. A. Colle , 2011: Cool-season intermittent precipitation cells in the Pacific Northwest. *Abstracts, 24th Conference on Weather and Forecasting.*, 23–27 Jan. 2011, Seattle, WA.
- Yuter, S. E., D. Kingsmill, C. White, M. Wilbanks, N. Hardin, and J. Cunningham, 2011: The spatial distribution of precipitation frequency for atmospheric river storms in Northern California. *Abstracts, AGU Fall Meeting*, Dec 2011.
- Burleyson, C., D. H. Sobel, and S. E. Yuter, 2010: Rain on tropical islands. *Abstracts, 29th Conference on Hurricanes and Tropical Meteorology*, 10-14 May 2010, Tucson, AZ.
- Burleyson, C. D., S. E. Yuter and S. P. deSzoeki, 2010: Observations of the diurnal cycle of marine stratocumulus during the VOCALS Regional Experiment. *Abstracts, AGU 2010 Fall Meeting*, December 2010, San Francisco, CA.
- Cunningham, J. G., S. E. Yuter and B. A. Colle, 2010: Quantitative comparisons of 3-D operational radar observations and model output over the Oregon Cascades. *Abstracts, 14th Conference on Mountain Meteorology*, Lake Tahoe, NV, 30 Aug-1 Sep 2010.
- de Szoeki, S. P., C. W. Fairall, C. D. Burleyson, P. Zuidema, and S. E. Yuter, 2010: Ship observations of southeastern tropical Pacific clouds along 20°S. *Abstracts, AGU 2010 Fall Meeting*, December 2010, San Francisco, CA.
- de Szoeki, S. P., P. Zuidema, C. W. Fairall, and S. E. Yuter, 2010: Ubiquitous drizzle from marine stratocumulus clouds. *Abstracts, AGU 2010 Fall Meeting*, December 2010, San Francisco, CA.
- de Szoeki, S. P., S. E. Yuter, P. Zuidema, C. W. Fairall, and W. A. Brewer, 2010: Ship-based observation of drizzling stratocumulus clouds from EPIC to VOCALS, *CLIVAR Exchanges*, **53**, 11-13.
- de Szoeki, S. P., and S. E. Yuter, 2010: When do stratocumulus clouds drizzle? *Abstracts, 13th Conference on Cloud Physics*, 28-June – 2 July 2010, Portland, OR.
- Mechem, D. B., S. E. Yuter, S. P. deSzoeki, 2010: Thermodynamic and aerosol controls on Eastern Pacific stratocumulus precipitation processes in VOCALS. *Abstracts, 13th Conference on Cloud Physics*, 28-June – 2 July 2010, Portland, OR.
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Service within NC State (last 5 years)

Chair of MEAS ETF Committee (2011-), MEAS Department Head Search Committee (2018-2019), Data Science Initiative Advisory Council (2016-), O. Max Gardner Award Committee (2018), Faculty advisor to Broadcast Meteorology Club (2011-), Faculty mentor for Assistant Professor Erin Hestir (2014-2017), College of Sciences Associate Dean of Research Search Committee (2015-2016).