

Curriculum Vitae

Henry E. Fuelberg

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General Information

University address: Meteorology
Earth, Ocean & Atmospheric Sciences
College of Arts and Sciences
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Professional Preparation

1976 Ph.D., Texas A&M University. Major: Meteorology.
1971 M.S., Texas A&M University. Major: Meteorology.
1970 B.S., Texas A&M University. Major: Meteorology.

Professional Experience

2005–present David Stuart Professor of Meteorology, Earth, ocean and Atmospheric
Science, Florida State University.
1994–2005 Professor of Meteorology, Earth, Ocean & Atmospheric Sci, Florida State
University.
1985–1994 Associate Professor of Meteorology, Florida State University.
1980–1985 Associate Professor of Meteorology, Earth and Atmospheric Science, Saint
Louis University.
1977–1980 Assistant Professor of Meteorology, Earth and Atmospheric Sciences, Saint
Louis University.

Honors, Awards, and Prizes

Outstanding Graduate Teaching Award, Florida State University (2015).
Group Achievement Award--SEAC4RS, NASA (2014).
Group Achievement Award-GRIP, NASA (2011).
Teaching Excellence Award, American Meteorological Society (2011).
Group Achievement Award--ARCTAS, NASA (2009).
Outstanding Graduate Mentoring, Florida State University (2008).
Outstanding Undergraduate Advising, Florida State University (2008).
Group Achievement Award--INTEX B, NASA (2007).
Outstanding Undergraduate Teaching Award, Florida State University (2007).
Group Achievement Award--INTEX-A, NASA (2005).
Group Achievement Award--SONEX, NASA (1998).
Outstanding Undergraduate Advisor, Florida State University (1990).

Elected Fellow Status

Elected as a Fellow of American Meteorological Society (2016).

Current Membership in Professional Organizations

American Geophysical Union
American Guild of Organists
American Meteorological Society
National Weather Association

Teaching

Meteorology.

Courses Taught

Honors Work (MET4900)
Introduction to the Atmosphere (MET1010)
Meso-Meteorology Lecture Laboratory (MET5511C)
Selected Topics in Meteorology (MET4159)
Advanced Synoptic Lecture-Laboratory I (MET5505C)
Synoptic Lecture-Laboratory I: Basic Analysis Techniques (MET4500C)
Master's Seminar (MET5930)
Directed Individual Study (MET5905)
Directed Individual Study (MET6906)
Lightning DA (MET6906)
Numerical Weather Prediction (MET6906)
Southeast Asia Pollution (MET6906)

Tropical Cyclone Simulation (MET6906)
Cloud dynamics & microphysics (MET6906)
GFS Reforecasts (MET6906)
GFS TC Precip Fcst (MET6906)
NCAR Command Language (MET6906)
Python Programming (MET6906)
Satellite Instrumentation (MET6906)
Strategic Ensembling (MET6906)
Tropical Cyclone Structure (MET6906)
WRF Modeling IV (MET5905)
Chemistry Transport Model (MET6906)
Directed Individual Study (MET4905)
Model Analysis (MET6906)
Programming in R (MET6906)
Scientific Publishing (MET6906)
TC Rainfall (MET6906)
WRF Modeling III (MET5905)
Meso-Met (MET4905)
Meso-Met Lab (MET4905)
Doctoral Seminar (MET6930)
Meso-Meteorology Lecture Laboratory (MET5511)
Advanced Synoptic Lecture-Laboratory I (MET5505)
Synoptic Lecture-Laboratory I: Basic Analysis Techniques (MET4500)
Meteorology Internship (MET4945)
General Meteorology (MET2700)

Doctoral Committee Chair

Preston, A., graduate. (2017).
Marchand, M. R., graduate. (2016).
Heath, N. K., graduate. (2015).
Hansen, A. E., graduate. (2012).
Hayes, P. D., graduate. (2011).
Peffer, L. T., graduate. (2011).
Rudlosky, S. D., graduate. (2011).
Stano, G. T., graduate. (2007).
Shafer, P. E., graduate. (2007).
Kiley, C. M., graduate. (2006).
Hannan, J. R., graduate. (2002).
Knabb, R., graduate. (1999).
Rao, A., graduate. (1998).
Muller, B., graduate. (1994).
Belt, C., graduate. (1988).
Hall, T., doctoral candidate.
Porter, M. J., doctoral candidate.

Doctoral Committee Cochair

Halperin, D. J., graduate. (2015).
Ou, Mi-Lim, graduate. (2003).

Doctoral Committee Member

Krishnamurthy, N., graduate. (2018).
Hazelton, A. T., graduate. (2016).
Waller, J. S., graduate. (2010).
Ahern, K. K., doctoral candidate.
Brannan, A. L., doctoral candidate.
Mackey, B. P., doctoral candidate.
Nissenbaum, M. R., doctoral student.

Doctoral Committee University Representative

Parker, J. J., graduate. (2017). [Physics Department]
Baker, J. A., graduate. (2016).
Kuvin, S. A., graduate. (2016).
Strazzo, S. E., graduate. (2015).
Santiago Gonzalez, D., graduate. (2013).
Santiago Gonzalez, D., graduate. (2013).
Amusan, I. O., graduate. (2013).
Peplowski, P. N., graduate. (2009).
Prather, B. R., doctoral candidate.

Master's Committee Chair

Patton, J. R., graduate. (2017).
Allison, T. D., graduate. (2016).
Davey, M., graduate. (2016).
Hall, T., graduate. (2014).
Lahr, A. D., graduate. (2014).
Seay, B. A., graduate. (2014).
Riggi, A. G., graduate. (2013).
Klich, C. A., graduate. (2012).
Preston, A., graduate. (2012).
Visco, T., graduate. (2012).
Reinhart, B. J., graduate. (2012).
Halperin, D. J., graduate. (2012).

Tamurian, Z. M., graduate. (2012).
Wagner, G. A., graduate. (2011).
Austin, M. D., graduate. (2011).
Taylor, Z. B., graduate. (2011).
Harrigan, D. L., graduate. (2010).
Martinaitis, S. M., graduate. (2008).
Peffer, L. T., graduate. (2008).
Sullivan, J., graduate. (2008).
Halland, J., graduate. (2007).
Rudlosky, S. D., graduate. (2007).
Turnage, T., graduate. (2007).
VanCleve, D., graduate. (2006).
Morse, D., graduate. (2005).
Marzen, J., graduate. (2004).
Shafer, P., graduate. (2004).
Winarchick, J., graduate. (2004).
Lericos, T., graduate. (2003).
Stroupe, J., graduate. (2003).
Kiley, C., graduate. (2002).
Mrocza, B., graduate. (2002).
Jarvis, M., graduate. (2001).
Margolin, D., graduate. (2001).
Martin, B., graduate. (2001).
Maloney, J., graduate. (2000).
Bieberbach, G., graduate. (1999).
Cantrell, graduate. (1999).
Duke, M., graduate. (1999).
Hannan, J., graduate. (1999).
Lusher, R., graduate. (1999).
Peffer, L., graduate. (1999).
Stellman, K., graduate. (1999).
Board, A., graduate. (1998).
Kelly, J., graduate. (1998).
Cetola, J., graduate. (1997).
Cupo, J., graduate. (1997).
Lenning, E., graduate. (1997).
Longmore, S., graduate. (1997).
Watson, M., graduate. (1996).
Loring, R., graduate. (1995).
Rao, A., graduate. (1995).
VanAusdall, J., graduate. (1995).
Hoepner, W., graduate. (1993).
Knabb, R., graduate. (1993).
Nichols, M., graduate. (1993).
Baker, M., graduate. (1992).
Biggar, D., graduate. (1992).

Bradshaw, T., graduate. (1991).
Guillory, A., graduate. (1991).
Breidenbach, J., graduate. (1990).
Olson, S., graduate. (1990).
Beven, J., graduate. (1988).
Hevrdeys, G., graduate. (1988).
Muller, B., graduate. (1988).
Schudalla, R., graduate. (1988).
Andrews, M., graduate. (1987).
Moore, S., graduate. (1987).
Buechler, D., graduate. (1985).
Funk, T., graduate. (1985).
Meyer, P., graduate. (1985).
Stewart, graduate. (1985).
Remeika, M., graduate. (1984).
Ruminski, M., graduate. (1984).
Printy, M., graduate. (1983).
Browning, P., graduate. (1982).
Jedlovec, G., graduate. (1981).
Curtis, W. S., student.
MacNamara, B. R., student.
Sava, A. M., student.
Skeen, C. A., student.
Soster, F., student.
Bowen, C., student.
Gard, T., student.
Joyner, V. F., student.

Master's Committee Member

Dawson, M. G., graduate. (2017).
Jo, E., graduate. (2017).
Visin, L. E., graduate. (2016).
Bielli, J. A., graduate. (2015).
Ahern, K. K., graduate. (2015).
Belles, J., graduate. (2015).
Hazelton, A. T., graduate. (2013).
Meech, S. P., graduate. (2013).
Christman, R. E., graduate. (2011).
Moeller, L. E., graduate. (2011).
Frumkin, A. J., graduate. (2011).
Truchelut, R. E. J., graduate. (2011).
Doane, J. B., student.
Kung, J. J., student.
Wirks, C. K., student.

Bachelor's Committee Chair

- Leahy, C., graduate. (2018). *Know Your Risk: What hour is lightning most likely in Tallahassee*. [UROP Program]
- Mazzetti, T., graduate. (2016). *Lightning Flash Rates*. [Honors in the Major]
- Freeman, S., graduate. (2014). *Vertical transport of sea salt in typhoons*.
- Ahern, K., graduate. (2013). *Analysis of Convective Transport of Biomass Burning Emissions in Southeast Asia*. [Honors in the Major]
- Jackson, K., graduate. (2013). *IC to CG ratio distributions in the Tallahassee NWS forecast region*.
- Trombetta, N., graduate. (2013). *HYSPLIT analysis of topographic influences on Colorado fires*.
- Kalina, E., graduate. (2010). *Predicting the initiation of cloud-to-ground lightning*.
- Sitkowski, M., graduate. (2003). *Determining precipitation frequencies over the southern United States*.
- Mersiovsky, H., student.
- Lappin, F., student. *Study of Derechos*. [UROP Program]

Bachelor's Committee Member

Hollis, M., student.

Additional Teaching Not Reported Elsewhere

Fuelberg, H. (2009–2016). *Guest Lecturer*. NASA Student Airborne Program (SARP).

Research and Original Creative Work

Publications

Refereed Journal Articles

- Preston, A. D., Fuelberg, H. E., & Barth, M. (submitted). Simulation of chemical transport by Typhoon Mireille (1991). *Journal of Geophysical Research*. Manuscript submitted for publication.
- Patton, J. R., & Fuelberg, H. E. (in press). Using radar-derived parameters to develop probabilistic guidance for lightning cessation within isolated convection near Cape Canaveral, Florida. *Weather and Forecasting*.

- Allison, T., Fuelberg, H., & Heath, N. (2018). Simulations of Vertical Water Vapor Transport for TC Ingrid (2013). *Journal of Geophysical Research-Atmospheres*.
- Davey, M. J., & Fuelberg, H. E. (2017). Using radar-derived parameters to forecast lightning cessation for nonisolated storms. *Journal of Geophysical Research--Atmospheres*, 1-2. doi:10.1002/2016JD025734
- Halperin, D. J., Hart, R. E., Fuelberg, H. E., & Cossuth, J. H. (2017). The development and evaluation of a statistical-dynamical tropical cyclone genesis guidance tool. *Weather and Forecasting*, 32, 27-46.
- Heath, N. J., Fuelberg, H. E., Tanelli, S., Turk, F. J., Lawson, R. P., Woods, S., & Freeman, S. (2017). WRF nested large-eddy simulations of deep convection during SEAC4RS. *Journal of Geophysical Research--Atmospheres*, 1-2. doi:10.1002/2016JD025465
- Mazzetti, T. O., & Fuelberg, H. E. (2017). An analysis of lightning flash rates over Florida. *Journal of Geophysical Research-Atmospheres*, 1.
- Teegavarapu, R., Aly, A., Pathak, C., Ahlquist, J., Fuelberg, H., & Hood, J. (2017). Infilling missing precipitation records using variants of spatial interpolation and data-driven methods: Use of optimal weighting parameters and nearest neighbor-based corrections. *International Journal of Climatology*, 1-2. doi:10.1002/joc.5209
- Halperin, D. J., Fuelberg, H. E., Hart, R. E., & Cossuth, J. H. (2016). Verification of Tropical Cyclone Genesis Forecasts from Global Numerical Models: Comparisons between the North Atlantic and Eastern North Pacific Basins. *Weather and Forecasting*, 31(3), 947-955. Retrieved from <http://apps.isiknowledge.com/InboundService.do?Func=Frame&product=WOS&action=retrieve&SrcApp=EndNote&Init=Yes&SrcAuth=ResearchSoft&mode=FullRecord&UT=WOS:000378527700014> doi:10.1175/waf-d-15-0157.1
- Preston, A. D., & Fuelberg, H. E. (2015). Improving Lightning Cessation Guidance Using Polarimetric Radar Data. *Weather and Forecasting*, 30(2), 308-328. Retrieved from <http://apps.isiknowledge.com/InboundService.do?Func=Frame&product=WOS&action=retrieve&SrcApp=EndNote&Init=Yes&SrcAuth=ResearchSoft&mode=FullRecord&UT=WOS:000353103600005> doi:10.1175/waf-d-14-00031.1
- Fuelberg, H. E., Walsh, R. J., & Preston, A. D. (2014). The extension of lightning flashes from thunderstorms near Cape Canaveral, Florida. *J. Geophys. Res.*, 119, 9965–9979. doi:10.1002/2014JD022105
- Fuelberg, H. E., Walsh, R. J., & Preston, A. D. (2014). The extension of lightning flashes from thunderstorms near Cape Canaveral, Florida. *Journal of Geophysical Research-Atmospheres*, 119(16), 9965-9979. Retrieved from <http://apps.isiknowledge.com/InboundService.do?Func=Frame&product=WOS&action=>

trieve&SrcApp=EndNote&Init=Yes&SrcAuth=ResearchSoft&mode=FullRecord&UT=WOS:000341994000023 doi:10.1002/2014jd022105

Heath, N. K., & Fuelberg, H. E. (2014). Using a WRF simulation to examine regions where convection impacts the Asian summer monsoon anticyclone. *Atmospheric Chemistry and Physics*, 14(4), 2055-2070. Retrieved from <http://apps.isiknowledge.com/InboundService.do?Func=Frame&product=WOS&action=trieve&SrcApp=EndNote&Init=Yes&SrcAuth=ResearchSoft&mode=FullRecord&UT=WOS:000332386100019 doi:10.5194/acp-14-2055-2014>

Klich, C. A., & Fuelberg, H. E. (2014). The role of horizontal model resolution in assessing the transport of CO in a middle latitude cyclone using WRF-Chem. *Atmospheric Chemistry and Physics*, 14(2), 609-627. Retrieved from <http://apps.isiknowledge.com/InboundService.do?Func=Frame&product=WOS&action=trieve&SrcApp=EndNote&Init=Yes&SrcAuth=ResearchSoft&mode=FullRecord&UT=WOS:000330853800007 doi:10.5194/acp-14-609-2014>

Marchand, M. R., & Fuelberg, H. E. (2014). Assimilation of Lightning Data Using a Nudging Method Involving Low-Level Warming. *Monthly Weather Review*, 142(12), 4850-4871. Retrieved from <http://apps.isiknowledge.com/InboundService.do?Func=Frame&product=WOS&action=trieve&SrcApp=EndNote&Init=Yes&SrcAuth=ResearchSoft&mode=FullRecord&UT=WOS:000345860400027 doi:10.1175/mwr-d-14-00076.1>

Marchand, M. R., & Fuelberg, H. E. (2014). Assimilation of lightning data using a nudging method involving low-level warming. *Mon. Wea. Rev.*, 142, 4850-4871.

Onderlinde, M. J., & Fuelberg, H. E. (2014). A Parameter for Forecasting Tornadoes Associated with Landfalling Tropical Cyclones. *Weather and Forecasting*, 29(5), 1238-1255. Retrieved from <http://apps.isiknowledge.com/InboundService.do?Func=Frame&product=WOS&action=trieve&SrcApp=EndNote&Init=Yes&SrcAuth=ResearchSoft&mode=FullRecord&UT=WOS:000343359400012 doi:10.1175/waf-d-13-00086.1>

Onderlinde, M. J., & Fuelberg, H. E. (2014). A parameter for forecasting tornadoes associated with landfalling tropical cyclones. *Wea. Forecasting*, 29, 1238-1255.

Reinhart, B., Fuelberg, H., Blakeslee, R., Mach, D., Heymsfield, A., Bansemmer, A., Durden, S. L., Tanelli, S., Heymsfield, G., & Lambriksen, B. (2014). Understanding the Relationships between Lightning, Cloud Microphysics, and Airborne Radar-Derived Storm Structure during Hurricane Karl (2010). *Monthly Weather Review*, 142(2), 590-605. Retrieved from <http://apps.isiknowledge.com/InboundService.do?Func=Frame&product=WOS&action=trieve&SrcApp=EndNote&Init=Yes&SrcAuth=ResearchSoft&mode=FullRecord&UT=WOS:000330100700006 doi:10.1175/mwr-d-13-00008.1>

- Atkinson, D. E., Sassen, K., Hayashi, M., Cahill, C. F., Shaw, G., Harrigan, D., & Fuelberg, H. (2013). Aerosol properties over Interior Alaska from lidar, DRUM Impactor sampler, and OPC-sonde measurements and their meteorological context during ARCTAS-A, April 2008. *Atmospheric Chemistry and Physics*, *13*(3), 1293-1310. Retrieved from <http://apps.isiknowledge.com/InboundService.do?Func=Frame&product=WOS&action=retrieve&SrcApp=EndNote&Init=Yes&SrcAuth=ResearchSoft&mode=FullRecord&UT=WOS:000315406100013> doi:10.5194/acp-13-1293-2013
- Bian, H., Colarco, P. R., Chin, M., Chen, G., Rodriguez, J. M., Liang, Q., Blake, D., Chu, D. A., da Silva, A., Darmenov, A. S., Diskin, G., Fuelberg, H. E., Huey, G., Kondo, Y., Nielsen, J. E., Pan, X., & Wisthaler, A. (2013). Source attributions of pollution to the Western Arctic during the NASA ARCTAS field campaign. *Atmospheric Chemistry and Physics*, *13*(9), 4707-4721. Retrieved from <http://apps.isiknowledge.com/InboundService.do?Func=Frame&product=WOS&action=retrieve&SrcApp=EndNote&Init=Yes&SrcAuth=ResearchSoft&mode=FullRecord&UT=WOS:000318941300016> doi:10.5194/acp-13-4707-2013
- Halperin, D. J., Fuelberg, H. E., Hart, R. E., Cossuth, J. H., Sura, P., & Pasch, R. J. (2013). An Evaluation of Tropical Cyclone Genesis Forecasts from Global Numerical Models. *Weather and Forecasting*, *28*(6), 1423-1445. Retrieved from <http://apps.isiknowledge.com/InboundService.do?Func=Frame&product=WOS&action=retrieve&SrcApp=EndNote&Init=Yes&SrcAuth=ResearchSoft&mode=FullRecord&UT=WOS:000328520200009> doi:10.1175/waf-d-13-00008.1
- Halperin, D. J., Fuelberg, H. E., Hart, R. E., Pasch, R. J., Cossuth, J. C., & Sura, P. (2013). An evaluation of tropical cyclone genesis forecasts from global numerical models. *Wea. Forecasting*, *28*, 1423-1445. Retrieved from <http://dx.doi.org/10.1175/WAF-D-13-00008.1>
- Heath, N. K., & Fuelberg, H. E. (2013). Using a WRF simulation to examine regions where convection impacts the Asian summer monsoon anticyclone. *Atmos. Chem. Phys*, *14*, 2055-2070.
- Klich, C. A., & Fuelberg, H. E. (2013). The role of horizontal model resolution in assessing the transport of CO in a middle latitude cyclone using WRF-Chem. *Atmos. Chem. Phys*, *14*, 609-627.
- Reinhart, B., Fuelberg, H. E., Blakeslee, R., Mach, D., Heymsfield, A., Bansemmer, A., & Lambrigtsen, B. (2013). Understanding the Relationships between Lightning, Cloud Microphysics, and Airborne Radar-Derived Storm Structure during Hurricane Karl (2010). *Mon. Wea. Rev.*, *142*, 590-605.
- Rudlosky, S. D., & Fuelberg, H. E. (2013). Documenting Storm Severity in the Mid-Atlantic Region Using Lightning and Radar Information. *Monthly Weather Review*, *141*(9), 3186-3202. Retrieved from [http://apps.isiknowledge.com/InboundService.do?Func=Frame&product=WOS&action=](http://apps.isiknowledge.com/InboundService.do?Func=Frame&product=WOS&action=retrieve&SrcApp=EndNote&Init=Yes&SrcAuth=ResearchSoft&mode=FullRecord&UT=WOS:000328520200009)

trieve&SrcApp=EndNote&Init=Yes&SrcAuth=ResearchSoft&mode=FullRecord&UT=WOS:000323655400016 doi:10.1175/mwr-d-12-00287.1

- Rudlosky, S. D., & Fuelberg, H. E. (2013). Documenting storm severity in the Mid-Atlantic region using lightning, radar, and sounding information. *Mon. Weather Rev*, *141*, 3186-3202.
- Apel, E. C., Olson, J. R., Crawford, J. H., Hornbrook, R. S., Hills, A. J., Cantrell, C. A., Emmons, L. K., Knapp, D. J., Hall, S., Mauldin, III, R. L., Weinheimer, A. J., Fried, A., Blake, D. R., Crounse, J. D., St Clair, J. M., Wennberg, P. O., Diskin, G. S., Fuelberg, H. E., Wisthaler, A., Mikoviny, T., Brune, W., & Riemer, D. D. (2012). Impact of the deep convection of isoprene and other reactive trace species on radicals and ozone in the upper troposphere. *ATMOSPHERIC CHEMISTRY AND PHYSICS*, *12*(2), 1135-1150. doi:10.5194/acp-12-1135-2012
- Matsui, H., Kondo, Y., Moteki, N., Takegawa, N., Sahu, L. K., Koike, M., Zhao, Y., Fuelberg, H. E., Sessions, W. R., Diskin, G., Anderson, B. E., Blake, D. R., Wisthaler, A., Cubison, M. J., & Jimenez, J. L. (2011). Accumulation-mode aerosol number concentrations in the Arctic during the ARCTAS aircraft campaign: Long-range transport of polluted and clean air from the Asian continent. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *116*, 1-x. doi:10.1029/2011JD016189
- Jimenez, J. L., Cubison, M. J., Ortega, A. M., Hayes, P. L., Farmer, D. K., Day, D. A., Lechner, M. J., Brune, W. H., Apel, E., Diskin, G. S., Fisher, J. A., Fuelberg, H. A., Hecobian, A., Knapp, D. J., Mikoviny, T., Riemer, D., Sachse, G. W., Sessions, W., Weber, R. J., Weinheimer, A. J., & Wisthaler, A. (2011). Effects of aging on organic aerosol from open biomass burning smoke in aircraft & lab studies. *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY*, *242*, 1-x.
- Kondo, Y., Matsui, H., Moteki, N., Sahu, L., Takegawa, N., Kajino, M., Zhao, Y., Cubison, M. J., Jimenez, J. L., Vay, S., Diskin, G. S., Anderson, B., Wisthaler, A., Mikoviny, T., Fuelberg, H. E., Blake, D. R., Huey, G., Weinheimer, A. J., Knapp, D. J., & Brune, W. H. (2011). Emissions of black carbon, organic, and inorganic aerosols from biomass burning in North America and Asia in 2008. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *116*, 1-x. doi:10.1029/2010JD015152
- Matsui, H., Kondo, Y., Moteki, N., Takegawa, N., Sahu, L. K., Zhao, Y., Fuelberg, H. E., Sessions, W. R., Diskin, G., Blake, D. R., Wisthaler, A., & Koike, M. (2011). Seasonal variation of the transport of black carbon aerosol from the Asian continent to the Arctic during the ARCTAS aircraft campaign. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *116*, 1-x. doi:10.1029/2010JD015067
- Chae, J. H., Wu, D. L., Read, W. G., & Sherwood, S. C. (2011). The role of tropical deep convective clouds on temperature, water vapor, and dehydration in the tropical tropopause layer (TTL). *Atmos. Chem. Phys*, *11*(8), 3811-3821. Retrieved from <http://www.atmos-chem-phys.net/11/3811/2011/>

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doi:10.5194/acp-11-3811-2011

- Cubison, M. J., Ortega, A. M., Hayes, P. L., Farmer, D. K., Day, D., Lechner, M. J., Brune, W. H., Apel, E., Diskin, G. S., Fisher, J. A., Fuelberg, H. E., Hecobian, A., Knapp, D. J., Mikoviny, T., Riemer, D., Sachse, G. W., Sessions, W., Weber, R. J., Weinheimer, A. J., Wisthaler, A., & Jimenez, J. L. (2011). Effects of aging on organic aerosol from open biomass burning smoke in aircraft and laboratory studies. *Atmospheric Chemistry and Physics*, *11*(23), 12049-12064. Retrieved from <http://apps.isiknowledge.com/InboundService.do?Func=Frame&product=WOS&action=retrieve&SrcApp=EndNote&Init=Yes&SrcAuth=ResearchSoft&mode=FullRecord&UT=WOS:000298134300009> doi:10.5194/acp-11-12049-2011
- Fried, A., Cantrell, C., Olson, J., Crawford, J. H., Weibring, P., Walega, J., Richter, D., Junkermann, W., Volkamer, R., Sinreich, R., Heikes, B. G., O'Sullivan, D., Blake, D. R., Blake, N., Meinardi, S., Apel, E., Weinheimer, A., Knapp, D., Perring, A., Cohen, R. C., Fuelberg, H., Shetter, R. E., Hall, S. R., Ullmann, K., Brune, W. H., Mao, J., Ren, X., Huey, L. G., Singh, H. B., Hair, J. W., Riemer, D., Diskin, G., & Sachse, G. (2011). Detailed comparisons of airborne formaldehyde measurements with box models during the 2006 INTEX-B and MILAGRO campaigns: potential evidence for significant impacts of unmeasured and multi-generation volatile organic carbon compounds. *Atmospheric Chemistry and Physics*, *11*(22), 11867-11894. Retrieved from <http://apps.isiknowledge.com/InboundService.do?Func=Frame&product=WOS&action=retrieve&SrcApp=EndNote&Init=Yes&SrcAuth=ResearchSoft&mode=FullRecord&UT=WOS:000298134200036> doi:10.5194/acp-11-11867-2011
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Presentations

Invited Papers at Conferences

Fuelberg, H. E., & Allison, T. D. (presented 2016). *Comparing and verifying WRF simulations of water vapor for TC Ingrid (September 2013)*. Paper presented at 18th Conference on Atmospheric Chemistry, American Meteorological Society, New Orleans, LA. (National)

Nonrefereed Papers at Conferences

Lappin, F. M., & Fuelberg, H. E. (presented 2019, January). *Effects of changing land use on simulated convective systems in the Florida panhandle*. Paper presented at 18th Annual Student Conference-Mesoscale Meteorology, American Meteorological Society, Phoenix, AZ. (International)

Lanicci, J., Allison, T., & Fuelberg, H. (presented 2018). *Numerical Modeling of a Heavy Rainfall Event in a Future Climate*. Paper presented at 31st Conf. Climate Variability and Change, American Meteorological Society, Austin. (National)

Lanicci, J., Allison, T., & Fuelberg, H. (presented 2017). *Numerical modeling of a heavy rainfall event in present and future climates*. Paper presented at 27th Conf. Climate Change and Variability, American Meteorological Society, Seattle. (International)

Fuelberg, H. E., & Allison, T. D. (presented 2016). *Comparing and verifying WRF simulations of water vapor for TC Ingrid (September 2013)*. Paper presented at 18th Conference on Atmospheric Chemistry, American Meteorological Society, New Orleans, LA. (National)

Hall, T. J., Fuelberg, H. E., & Hart, R. E. (presented 2016). *U.S. Tropical cyclone precipitation characteristics based on NCEP STIV and GFS data*. Paper presented at 14th Symposium on the Coastal Environment, American Meteorological Society, New Orleans, LA. (National)

Marchand, M., & Fuelberg, H. E. (presented 2016). *Assimilation of lightning observations and GOES infrared imagery at convection-permitting scales*. Paper presented at 4th American Meteorological Society Symposium on the Joint Center for Satellite Data Assimilation, American Meteorological Society, New Orleans, LA. (National)

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Contracts and Grants

Contracts and Grants Funded

Fuelberg, H. (Aug 2018–Aug 2020). *Unexplained nocturnally forming lightning in the CCAFS/KSC Florida area*. Funded by USAF 45th Weather Squadron. Total award \$86,384.

Fuelberg, H. (May 2017–May 2020). *Cumulus Electrification Study*. Funded by USAF 45th Weather Squadron. (FA252117P0041). Total award \$124,322.

Fuelberg, Henry E (Co-PI), & Hart, Robert (PI). (May 2016–Apr 2019). *Collaborative Research On Improved Understanding & Prediction Of Warm-Season (Derecho) & Cold-Season (Mesoscale Snow Banding) High Impact Events*. Funded by National Oceanic and Atmospheric Association. (NA16NWS4680007). Total award \$449,019.

Fuelberg, Henry E (PI). (Jan 2016–Mar 2017). *Numerically Modeling Extreme Rainfall Events Near Kennedy Space Center, FL: The Effects of Climate Change*. Funded by Embry-Riddle Aeronautical University. (61346-02). Total award \$52,882.

Fuelberg, Henry E (Co-PI), & Hart, Robert (PI). (Sep 2013–Aug 2016). *A Probabilistic TC Genesis Forecast Tool Utilizing an Ensemble of Global Models*. Funded by National Oceanic and Atmospheric Association. (NA13OAR4590185). Total award \$197,792.

Fuelberg, Henry E (PI). (Sep 2013–Jan 2017). *Impacts of Asian Summer Monsoon Convection On the Chemical Composition of the Upper Troposphere and Lower Stratosphere*. Funded by National Aeronautics & Space Administration. (NNX13AM90H). Total award \$82,000.

Fuelberg, Henry E (PI), & Hart, Robert (Co-PI). (Sep 2013–Aug 2017). *Improved Forecasting of Extreme Rainfall Events Associated with Tropical Cyclones*. Funded by National Oceanic and Atmospheric Association. (NA13NWS4680005). Total award \$299,307.

Fuelberg, Henry E (PI). (Aug 2013–Jul 2014). *Year 2 of 2 -Master's Degree Fellowship 2013 (Brannon Seay)*. Funded by University of Central Florida. (0000271292). Total award \$12,000.

Fuelberg, Henry E (PI). (Oct 2012–Jun 2017). *Upward Lightning Flash Structure at Kenedy Space Center*. Funded by National Aeronautics & Space Administration. (NNX13AB95G). Total award \$152,303.

Fuelberg, Henry E (PI). (Aug 2012–Jul 2013). *Nasa Earth-Space Science Fellowship 2012*. Funded by University of Central Florida. (UCF01-0000257650). Total award \$12,000.

- Fuelberg, Henry E (PI). (Dec 2011–Dec 2015). *Diagnostic Studies and Numerical Simulations of Chemical Transport to the Upper Troposphere/Lower Stratosphere in the South Asian Monsoon during SEAC4RS*. Funded by National Aeronautics & Space Administration. (NNX12AC07G). Total award \$404,972.
- Fuelberg, Henry E (PI). (Dec 2011–Aug 2012). *Understanding the Significance of Fluctuations in the Ar*. Funded by The Citadel Group. Total award \$8,923.
- Fuelberg, Henry E (PI). (Dec 2011–Dec 2013). *Meteorological Modeling and Tracer Capabilities Study*. Funded by United States Department of the Air Force. (FA7022-12-C-0004). Total award \$96,876.
- Fuelberg, Henry E (PI), & Hart, Robert (Co-PI). (Nov 2011–Sep 2012). *Determining the Abilities of Operational Numerical Models to Forecast Tropical Cyclogenesis*. Funded by University Corporation for Atmospheric Research. (Z12-93225). Total award \$11,880.
- Fuelberg, Henry E (PI). (Sep 2011–Sep 2013). *Lightning Cessation with Dual Polarization Radar*. Funded by United States Department of the Air Force. (FA2521-11-P-0091). Total award \$55,979.
- Fuelberg, Henry E (PI). (Sep 2010–Sep 2011). *Lightning Cessation with Dual Polarization Radar*. Funded by United States Department of the Air Force. (FA2521-10-P-0153). Total award \$48,975.
- Fuelberg, Henry E (PI). (Sep 2010–Sep 2011). *Lightning Launch Commit Criteria Improvement (LLCC) - Radar/Lightning Climatology*. Funded by United States Department of the Air Force. (FA2521-10-P-0149). Total award \$52,965.
- Navon, Ionel M (Co-PI), & Fuelberg, Henry E (PI). (Jun 2010–May 2014). *Data Assimilation of Lightning in WRF 4-D VAR Using Observation Operators*. Funded by National Oceanic and Atmospheric Association. (NA10NES4400008). Total award \$443,461.
- Fuelberg, Henry E (PI). (Nov 2009–Nov 2011). *Modeling Uncertainties of Atmospheric Transport - the WRF Numerical Model with In-Line Transport Capabilities*. Funded by United States Department of the Air Force. (FA2521-10-C-8004). Total award \$116,265.
- Fuelberg, Henry E (PI). (Nov 2008–Nov 2009). *Sensitivity Studies on Atmospheric Transport*. Funded by United States Department of the Air Force. (FA2521-09-P-0005). Total award \$53,999.
- Fuelberg, Henry E (PI). (Aug 2008–Aug 2009). *Space Grant Fellowship Program*. Funded by University of Central Florida. (UCF01-0000157916). Total award \$12,000.

- Fuelberg, Henry E (PI). (Mar 2008–Feb 2009). *Use of NEXRAD Data to Develop climatologically Homogeneous*. Funded by University of Florida. (UF-EIES-0804003-FSU). Total award \$5,000.
- Fuelberg, Henry E (PI). (Feb 2008–Jan 2013). *Research on Arctic Transport Using a Synthesis of Satellite Data, In-Situ Data, and Numerical Models*. Funded by National Aeronautics & Space Administration. (NNX08AH72G). Total award \$490,619.
- Fuelberg, Henry E (PI). (Jan 2008–Sep 2008). *Use of NEXRAD Data to Develop Climatologically Homogeneous Rainfall Areas for the SFWMD*. Funded by South Florida Water Management. (4500020199). Total award \$17,000.
- Fuelberg, Henry E (PI). (Nov 2007–Nov 2008). *Sensitivity Studies On Atmospheric Transport--The WRF Numerical Model and FLEXPART Transport Model*. Funded by United States Department of the Air Force. (FA2521-08-P-0021). Total award \$52,000.
- Fuelberg, Henry E (PI). (Aug 2007–May 2010). *Development and Evaluation of Mesoscale Lightning Threat Guidance for Operational Use at NWS Forecast Offices*. Funded by University Corporation for Atmospheric Research. (S07-66809). Total award \$77,498.
- Fuelberg, Henry E (PI). (Jan 2007–Feb 2008). *A Comparison Of FSU/NWS And OneRain Precipitation Data And Their Insertion Into The WAM Hydrologic Model*. Funded by South Florida Water Management. (4500007892). Total award \$15,000.
- Fuelberg, Henry E (PI). (Jan 2007–Jun 2008). *Determining Surface Winds from Doppler Radar Data During*. Funded by Florida Power and Light Company. (PO 4500363513). Total award \$83,468.
- Fuelberg, Henry E (PI). (Jun 2006–May 2007). *Documenting the Spatial, Temporal, and Electrical Characteristics of Positive Cloud-to-Ground Lightning Over the Florida Power & Light Service Territory*. Funded by Florida Power and Light Company. (PO NUMBER 4500313630). Total award \$42,001.
- Fuelberg, Henry E (PI). (Mar 2006–Feb 2008). *Comparing Radar Derived Precipitation Values*. Funded by University of Florida. (UF-EIES-0604009-FSU). Total award \$10,000.
- Fuelberg, Henry E (PI). (Mar 2006–Mar 2007). *A comparison of NW/FSU and OneRain Precipitation Data and their insertion into the WAM Hydrologic model*. Funded by South Florida Water Management. (PC P601207). Total award \$15,000.
- Fuelberg, Henry E (PI). (Mar 2006–Feb 2008). *Statistical Forecasting Of Lightning Cessation At The Kennedy Space Center*. Funded by National Aeronautics & Space Administration. (NNK06EB17G). Total award \$59,470.

- Fuelberg, Henry E (PI). (Jan 2006–Jul 2008). *WAM-MPE Modeling*. Funded by Florida Department of Environmental Protection. (WM902). Total award \$106,020.
- Fuelberg, Henry E (PI). (Oct 2005–Feb 2009). *Analysis of DATA from INTEX-A and B in Support of Aura and Aqua Validation*. Funded by National Aeronautics & Space Administration. (NNG06GB43G). Total award \$283,809.
- Fuelberg, Henry E (PI). (Oct 2004–Oct 2005). *Adding Two Additional Years to the High Resolution Historical Precipitation Database for Florida*. Funded by Florida Department of Environmental Protection. (WM874). Total award \$51,220.
- Fuelberg, Henry E (PI). (Aug 2004–Sep 2005). *Completion of Tasks for Contract WM-849*. Funded by Florida Department of Environmental Protection. (S 3700 210946). Total award \$10,691.
- Fuelberg, Henry E (PI). (Jan 2004–Dec 2004). *Analysis of 3,6,12, and 24 Hour Precipitation Freq*. Funded by University Corporation for Atmospheric Research. (S04 44685). Total award \$7,172.
- Fuelberg, Henry E (PI). (Jan 2004–Jan 2008). *Diagnostic and Numerical Studies of Atmospheric Tr*. Funded by National Aeronautics & Space Administration. (NNG04GC33G). Total award \$365,779.
- Fuelberg, Henry E (Co-PI), Ahlquist, Jon E (PI), & Cooper, Henry J (Co-PI). (Oct 2003–Sep 2007). *Improvements in the Operational Forecasting of Pre*. Funded by National Oceanic and Atmospheric Association. (NA03NWS4680018). Total award \$371,290.
- Foo, Simon Y (PI), Kwan, Bing W (Co-PI), Elsner, James B (Co-PI), & Fuelberg, Henry E (Co-PI). (Feb 2003–Aug 2004). *Development of a Road Weather Information System f*. Funded by University of North Florida. (002-079). Total award \$126,090.
- Fuelberg, Henry E (PI). (Oct 2002–May 2004). *Completing the High Resolution Seven Year Historic*. Funded by Florida Department of Environmental Protection. (WM849). Total award \$71,590.
- Fuelberg, Henry E (PI). (Oct 2002–May 2007). *Statistical Tools for Forecasting Warm Season Afte*. Funded by Florida Power and Light Company. (PO#4500120225). Total award \$206,995.
- Fuelberg, Henry E (PI). (Nov 2001–Oct 2003). *Determining Precipitation Frequencies Over the Sou*. Funded by University Corporation for Atmospheric Research. (S02-32804). Total award \$7,302.

Foo, Simon Y (PI), Kwan, Bing W (Co-PI), Elsner, James B (Co-PI), & Fuelberg, Henry E (Co-PI). (Sep 2001–Jun 2003). *Utilizing FDOT Meteorological Data to Investigate*. Funded by University of North Florida. (001-008). Total award \$123,200.

Fuelberg, Henry E (PI). (Aug 2000–Dec 2020). *FUEL-PI RESEARCH SUPPORT*. Funded by FSU. Total award \$17,106.

Ruscher, Paul (Co-PI), & Fuelberg, Henry E (PI). (Jun 2000–May 2003). *Joint Research between Florida State University an*. Funded by University Corporation for Atmospheric Research. (S00-19127). Total award \$116,327.

Contracts and Grants Pending

Fuelberg, H. (Sep 2018). *Collaborative research to develop a new multi-hazard severe weather index*. Submitted to NOAA CSTAR.

Mission Meteorologist for NASA Airborne Campaigns-II

Fuelberg, H. (2004–2006). *INTEX NA*.

Fuelberg, H. (2000–2003). *TRACE-P*.

Fuelberg, H. (1995–1999). *PEM-Tropics A*.

Mission Meteorologist for NASA Airborne Field Campaigns

Fuelberg, H. (1998–2001). *PEM-Tropics B*.

Fuelberg, H. (1997–1999). *SONEX*.

Fuelberg, H. (1991–1995). *TRACE A*.

Mission Meteorologist for NASA Airborne Field Campaigns-III

Fuelberg, H. (2012–2015). *SEAC4RS*.

Fuelberg, H. (2005–2007). *INTEX B*.

Service

Florida State University

FSU University Service

Faculty Advisor, The Impact Movement at Florida State University (2018–present).

Faculty Advisor, FSU Campus Crusade for Christ (2008–present).

Member, FSU Undergraduate Policy Committee (2017–2020).

FSU College Service

Chair, Search Committee for Chair of EOAS (2015–2016).

Member, Science Area Committee on Promotion and Tenure (2008).

Member, Physics Dept. Building Committee (2006–2008).

Member, Search Committee for Chair of Dept. of Meteorology (2006–2007).

FSU Department Service

Chairman, Undergraduate Curriculum Revision Committee (2017–present).

Member, Executive Committee for EOAS (2015–present).

Member, Search Committee for Meteorology Faculty Position (2015–2016).

Member, Meteorology Undergraduate Program Committee (2006–2010).

Member, Executive Committee for Dept. of Meteorology (1998–2010).

Member, Meteorology Graduate Program Committee (2004–2005).

Director, Meteorology Graduate Program (2001–2003).

Member, Graduate Admissions Committee-Meteorology (1996–2003).

Member, Undergraduate Program Committee (1989–2001).

Director, Undergraduate Program Committee--Meteorology (1989–1995).

FSU Institute or Center Service

Member, Faculty Search Committee for Coastal Marine Initiative (2014–2015).

The Profession

Editor for Refereed Journals

Associate Editor, *Weather and Forecasting* (2013–present).

Editorial Board Membership(s)

Atmospheric Environment (2013–present).

Guest Reviewer for Refereed Journals

Journal of Operational Meteorology (Sep 2018–present).

Weather and Forecasting (2000–present).

Atmospheric Chemistry and Physics (1995–present).

Journal of Applied Meteorology (1990–present).

Monthly Weather Review (1990–present).

Bulletin of the American Meteorological Society (1989–present).

Journal of Geophysical Research--Atmospheres (1988–present).

Reviewer or Panelist for Grant Applications

NSF (1992–present).

NASA (1991–present).

NASA Panel "Earth Venture" proposals (2013–2014).

Service to Professional Associations

Member of Review Panel for Meteorological Development Lab, National Weather Service (2010–2011).

Panel Member on International Transport of Air Pollutants, National Academy of Science (2008–2009).

Co-Convenor of session "Multi-sensor Precipitation Estimation", American Geophysical Union (2008).

Program Committee for 4th Conf. on Meteor. Applications of Lightning Data, American Meteorological Society (2008).

Chairman, Committee on Severe Local Storms, American Meteorological Society (1999–2000).

Program Committee for 20th Conf. Severe Local Storms, American Meteorological Society (1999–2000).

Committee on Severe Local Storms, American Meteorological Society (1998–2000).

Program Chairman, 1988 Conf. on Severe Local Storms, American Meteorological Society (1986–1988).

Member, Panel on NASA Shuttle Flight Rules (1987).

Program Committee, 1985 Severe Local Storms Conf, American Meteorological Society (1985).

Member of Committee on Meteorological Education in Universities, American Meteorological Society (1981–1983).