

Curriculum Vitae
Henry E. Fuelberg

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General Information

University address: Earth, Ocean & Atmospheric Sciences
College of Arts and Sciences
Love Building 0362
Florida State University
Tallahassee, Florida 32306-4520

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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

1985–present Professor, Earth, Ocean & Atmospheric Sci, Florida State University.

1977–1985 Assistant Professor of Meteorology, Earth and Atmospheric Sciences, Saint Louis University.

Honors, Awards, and Prizes

Teaching Excellence Award, American Meteorological Society (2011).

Current Membership in Professional Organizations

American Geophysical Union
American Meteorological Society

Teaching

Courses Taught

Introduction to the Atmosphere (MET1010)
Doctoral Seminar (MET6930)
Master's Seminar (MET5930)
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)
Selected Topics in Meteorology (MET4159)

Doctoral Committee Chair

Hayes, P. D., graduate. (2011).
Peppers, 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).
Hopkins, A. E., doctoral candidate.

Doctoral Committee Cochair

Ou, Mi-Lim, graduate. (2003).

Doctoral Committee Member

MacKey, B. P., doctoral candidate.

Doctoral Committee University Representative

Peplowski, P. N., graduate. (2009).
Santiago, D., doctoral candidate.
Krishnamurthy, N., doctoral student.

Master's Committee Chair

Austin, M. D., graduate. (2011).
Taylor, Z. B., graduate. (2011).
Harrigan, D. L., graduate. (2010).
Anderson, H. A., graduate. (2010).
Onderlinde, M. J., graduate. (2010).
Latto, A. S., graduate. (2009).
Peffer, L. T., graduate. (2009).
Martinaitis, S. M., graduate. (2008).
Halperin, D. J., student.
Klich, C. A., student.
Marchand, M. R., student.
Preston, A. D., student.
Reinhart, B. J., student.
Tamurian, Z., student.
Wagner, G. A., student. (2011).

Master's Committee Member

Frumkin, A. J., graduate. (2011).
Truchelut, R. E., graduate. (2011).
Smith, J. R., graduate. (2010).
Wolf, L. S., graduate. (2009).
Barry, M. A., student.
Christman, R. E., student.
White, L., student.
Moeller, L. E., student. (2011).

Research and Original Creative Work

Publications

Refereed Journal Articles

Halperin, D. J., Fuelberg, H. E., Hart, R. E., Cossuth, J. C., Sura, P., & Pasch, R. J. (submitted).
An evaluation of tropical cyclone genesis forecasts from global numerical models. *Wea. Forecasting*. Manuscript submitted for publication, 25 pages.

Reinhart, B., & Fuelberg, H. E. (submitted). Understanding the Relationships between Lightning, Cloud Microphysics, and Airborne Radar-Derived Storm Structure during Hurricane Karl (2010). *Mon. Wea. Rev.* Manuscript submitted for publication, 35 pages.

- Rudlosky, S. D., & Fuelberg, H. E. (in press). Documenting storm severity in the Mid-Atlantic region using lightning, radar, and sounding information. *Mon. Weather Rev.*
- 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., Crouse, 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
- Harrigan, D. R., Fuelberg, H. E., Simpson, I. J., Blake, D. R., & Carmichael, G. R. (2011). Transport of anthropogenic emissions during ARTAS-A: A climatology and regional case studies. *Atmos. Chem. Phys*, *11*, 8677-8701. doi:10.5194/acp-11-8677-2011
- Hornbrook, R. S., Blake, D. R., Diskin, G. S., Fried, A., Fuelberg, H. E., Meinardi, S., Mikoviny, T., Richter, D., Sachse, G. W., Vay, S. A., Walega, J., Weibring, P., Weinheimer, A. J., Wiedinmyer, C., Wisthaler, A., Hills, A., Riemer, D. D., & Apel, E. C. (2011). Observations of nonmethane organic compounds during ARCTAS - Part 1: Biomass

- burning emissions and plume enhancements. *ATMOSPHERIC CHEMISTRY AND PHYSICS*, 11(21), 11103-11130. doi:10.5194/acp-11-11103-2011
- Rudlosky, S. D., & Fuelberg, H. E. (2011). Seasonal, regional and storm-scale variability of cloud-to-ground lightning characteristics in Florida. *Mon. Wea. Rev.*, 139, 1826-1843.
- Rudlosky, S. D., & Fuelberg, H. E. (2011). Pre- and postupgrade distributions of NLDN reported cloud-to-ground lightning characteristics in the contiguous United States. *Mon. Wea. Rev.*, 138, 3623-3633.
- Sessions, W. A., Fuelberg, H. E., Kahn, R. A., & Winker, M. M. (2011). An investigation of methods for injecting emissions from boreal wildfires using WRF-Chem during ARCTAS. *Atmos. Chem Phys*, 11, 5719-5744.
- Simpson, I. J., Akagi, S. K., Barletta, B., Blake, N. J., Choi, Y., Diskin, G. S., Fried, A., Fuelberg, H. E., Meinardi, S., Rowland, F. S., Vay, S. A., Weinheimer, A. J., Wennberg, P. O., Wiebring, P., Wisthaler, A., Yang, M., Yokelson, R. J., & Blake, D. R. (2011). Boreal forest fire emissions in fresh Canadian smoke plumes: C-1-C-10 volatile organic compounds (VOCs), CO₂, CO, NO₂, NO, HCN and CH₃CN. *ATMOSPHERIC CHEMISTRY AND PHYSICS*, 11(13), 6445-6463. doi:10.5194/acp-11-6445-2011
- Singh, H. B., Anderson, B. E., Brune, W. H., Cai, C., Cohen, R. C., Crawford, J. H., Cubison, M. J., Czech, E. P., Emmons, L., Fuelberg, H. E., Huey, G., Jacob, D. J., Jimenez, J. L., Kadowela, A., Kondo, Y., Mao, J., Olson, J. R., Sachse, G. W., Vay, S. A., Weinheimer, A., Wennberg, P. O., Wisthaler, A., & Team, A. S. (2010). Pollution influences on atmospheric composition and chemistry at high northern latitudes: Boreal and California forest fire emissions. *ATMOSPHERIC ENVIRONMENT*, 44(36), 4553-4564. doi:10.1016/j.atmosenv.2010.08.026
- Gorham, K. A., Blake, N. J., VanCuren, R. A., Fuelberg, H. E., Meinardi, S., & Blake, D. R. (2010). Seasonal and diurnal measurements of carbon monoxide and nonmethane hydrocarbons at Mt. Wilson, California: Indirect evidence of atomic Cl in the Los Angeles basin. *ATMOSPHERIC ENVIRONMENT*, 44(19), 2271-2279. doi:10.1016/j.atmosenv.2010.04.019
- Stano, G. T., Fuelberg, H. E., & Roeder, W. P. (2010). Developing empirical lightning cessation forecast guidance for the Cape Canaveral Air Force Station and Kennedy Space Center. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 115, 1-x. doi:10.1029/2009JD013034

- Fisher, J. A., Jacob, D. J., Purdy, M. T., Kopacz, M., Le Sager, P., Carouge, C., Holmes, C. D., Yantosca, R. M., Batchelor, R. L., Strong, K., Diskin, G. S., Fuelberg, H. E., Holloway, J. S., Hyer, E. J., McMillan, W. W., Warner, J., Streets, D. G., Zhang, Q., Wang, Y., & Wu, S. (2010). Source attribution and interannual variability of Arctic pollution in spring constrained by aircraft (ARCTAS, ARCPAC) and satellite (AIRS) observations of carbon monoxide. *ATMOSPHERIC CHEMISTRY AND PHYSICS*, *10*(3), 977-996.
- Fuelberg, H. E., Harrigan, D. L., & Sessions, W. (2010). A meteorological overview of the ARCTAS 2008 mission. *ATMOSPHERIC CHEMISTRY AND PHYSICS*, *10*(2), 817-842.
- Hansen, A., Fuelberg, H. E., & Pickering, K. E. (2010). Vertical distribution of lightning flashes in central Florida. *J. Geophys. Res.*, *115*, 3143-3525. doi:10.1029/2009JD013143
- Simpson, I. J., Blake, N. J., Barletta, B., Diskin, G. S., Fuelberg, H. E., Gorham, K., Huey, L. G., Meinardi, S., Rowland, F. S., Vay, S. A., Weinheimer, A. J., Yang, M., & Blake, D. R. (2010). Characterization of trace gases measured over Alberta oil sands mining operations: 76 speciated C-2-C-10 volatile organic compounds (VOCs), CO₂, CH₄, CO, NO, NO₂, NO_y, O-3 and SO₂. *ATMOSPHERIC CHEMISTRY AND PHYSICS*, *10*(23), 11931-11954. doi:10.5194/acp-10-11931-2010
- Barletta, B., Meinardi, S., Simpson, I. J., Atlas, E. L., Beyersdorf, A. J., Baker, A. K., Blake, N. J., Yang, M., Midyett, J. R., Novak, B. J., McKeachie, R. J., Fuelberg, H. E., Sachse, G. W., Avery, M. A., Campos, T., Weinheimer, A. J., Rowland, F. S., & Blake, D. R. (2009). Characterization of volatile organic compounds (VOCs) in Asian and north American pollution plumes during INTEX-B: identification of specific Chinese air mass tracers. *ATMOSPHERIC CHEMISTRY AND PHYSICS*, *9*(14), 5371-5388.
- Halland, J. J., Fuelberg, H. E., Pickering, K. E., & Luo, M. (2009). Identifying convective transport of carbon monoxide by comparing remotely sensed observations from TES with cloud modeling simulations. *ATMOSPHERIC CHEMISTRY AND PHYSICS*, *9*(13), 4279-4294.
- Fried, A., Olson, J. R., Walega, J. G., Crawford, J. H., Chen, G., Weibring, P., Richter, D., Roller, C., Tittel, F., Porter, M., Fuelberg, H., Halland, J., Bertram, T. H., Cohen, R. C., Pickering, K., Heikes, B. G., Snow, J. A., Shen, H., O'Sullivan, D. W., Brune, W. H., Ren, X., Blake, D. R., Blake, N., Sachse, G., Diskin, G. S., & Podo. (2008). Role of convection in redistributing formaldehyde to the upper troposphere over North America and the North Atlantic during the summer 2004 INTEX campaign. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *113*(D17), D17306. doi:10.1029/2007JD009760
- Shafer, P. E., & Fuelberg, H. E. (2008). A perfect prognosis scheme for forecasting warm-season lightning over Florida. *MONTHLY WEATHER REVIEW*, *136*(6), 1817-1846. doi:10.1175/2007MWR2222.1

- Blake, N. J., Campbell, J. E., Vay, S. A., Fuelberg, H. E., Huey, L. G., Sachse, G., Meinardi, S., Beyersdorf, A., Baker, A., Barletta, B., Midyett, J., Doezema, L., Kamboures, M., McAdams, J., Novak, B., Rowland, F. S., & Blake, D. R. (2008). Carbonyl sulfide (OCS): Large-scale distributions over North America during INTEX-NA and relationship to CO(2). *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *113(D9)*, 1-x. doi:10.1029/2007JD009163
- Blake, N. J., Campbell, J. E., Vay, S. A., Fuelberg, H. E., Huey, L. G., Sachse, G., Meinardi, S., Beyersdorf, A., Baker, A., Barletta, B., Midyett, J., Doezema, L., Kamboures, M., McAdams, J., Novak, B., Rowland, F. S., & Blake, D. R. (2008). Carbonyl sulfide (OCS): Large-scale distributions over North America during INTEX-NA and relationship to CO(2). *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *113(D9)*, 1-x. doi:10.1029/2007JD009163
- Fried, A., Walega, J. G., Olson, J. R., Crawford, J. H., Chen, G., Weibring, P., Richter, D., Roller, C., Tittel, F. K., Heikes, B. G., Snow, J. A., Shen, H., O'Sullivan, D. W., Porter, M., Fuelberg, H., Halland, J., & Millet, D. B. (2008). Formaldehyde over North America and the North Atlantic during the summer 2004 INTEX campaign: Methods, observed distributions, and measurement-model comparisons. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *113(D10)*, D10302. doi:10.1029/2007JD009185
- Choi, Y., Vay, S. A., Vadrevu, K. P., Soja, A. J., Woo, Jung-Hun, Nolf, S. R., Sachse, G. W., Diskin, G. S., Blake, D. R., Blake, N. J., Singh, H. B., Avery, M. A., Fried, A., Pfister, L., & Fuelberg, H. E. (2008). Characteristics of the atmospheric CO₂ signal as observed over the conterminous United States during INTEX-NA. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *113(D7)*, 1-x. doi:10.1029/2007JD008899
- Zhang, L., Jacob, D. J., Boersma, K. F., Jaffe, D. A., Olson, J. R., Bowman, K. W., Worden, J. R., Thompson, A. M., Avery, M. A., Cohen, R. C., Dibb, J. E., Flock, F. M., Fuelberg, H. E., Huey, L. G., McMillan, W. W., Singh, H. B., & Weinheimer, A. J. (2008). Transpacific transport of ozone pollution and the effect of recent Asian emission increases on air quality in North America: an integrated analysis using satellite, aircraft, ozonesonde, and surface observations. *ATMOSPHERIC CHEMISTRY AND PHYSICS*, *8(20)*, 6117-6136.
- Fuelberg, H. E., Porter, M. J., Kiley, C. M., Halland, J. J., & Morse, D. (2007). Meteorological conditions and anomalies during the Intercontinental Chemical Transport Experiment-North America. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *112(D12)*, 1-x. doi:10.1029/2006JD007734
- Lericos, T. P., Fuelberg, H. E., Weisman, M. L., & Watson, A. I. (2007). Numerical simulations of the effects of coastlines on the evolution of strong, long-lived squall lines. *MONTHLY WEATHER REVIEW*, *135(5)*, 1710-1731. doi:10.1175/MWR3381.1
- Bertram, T. H., Perring, A. E., Wooldridge, P. J., Crouse, J. D., Kwan, A. J., Wennberg, P. O., Scheuer, E., Dibb, J., Avery, M., Sachse, G., Vay, S. A., Crawford, J. H., McNaughton,

- C. S., Clarke, A., Pickering, K. E., Fuelberg, H., Huey, G., Blake, D. R., Singh, H. B., Hall, S. R., Shetter, R. E., Fried, A., Heikes, B. G., & Cohen, R. C. (2007). Direct measurements of the convective recycling of the upper troposphere. *SCIENCE*, *315*(5813), 816-820. doi:10.1126/science.1134548
- Kiley, C. M., & Fuelberg, H. E. (2006). An examination of summertime cyclone transport processes during intercontinental chemical transport experiment (INTEX-A). *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *111*(D24), 1-x. doi:10.1029/2006JD007115
- Shafer, P. E., & Fuelberg, H. E. (2006). A statistical procedure to forecast warm season lightning over portions of the Florida Peninsula. *WEATHER AND FORECASTING*, *21*(5), 851-868. doi:10.1175/WAF954.1
- Smith, J., Fuelberg, H., & Watson, A. (2005). Warm season lightning distributions over the northern Gulf of Mexico coast and their relation to synoptic-scale and mesoscale environments. *WEATHER AND FORECASTING*, *20*(4), 415-438. doi:10.1175/WAF870.1
- Kondo, Y., Morino, Y., Takegawa, N., Koike, M., Kita, K., Miyazaki, Y., Sachse, G., Vay, S., Avery, M., Flocke, F., Weinheimer, A., Eisele, F., Zondlo, M., Weber, R., Singh, H., Chen, G., Crawford, J., Blake, D., Fuelberg, H., Clarke, A., Talbot, R., Sandholm, S., Browell, E., Streets, D., & Liley, B. (2004). Impacts of biomass burning in Southeast Asia on ozone and reactive nitrogen over the western Pacific in spring. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *109*(D15), D15S12. doi:10.1029/2003JD004203
- Blake, N., Streets, D., Woo, J., Simpson, I., Green, J., Meinardi, S., Kita, K., Atlas, E., Fuelberg, H., Sachse, G., Avery, M., Vay, S., Talbot, R., Dibb, J., Bandy, A., Thornton, D., Rowland, F., & Blake, D. (2004). Carbonyl sulfide and carbon disulfide: Large-scale distributions over the western Pacific and emissions from Asia during TRACE-P. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *109*(D15), 1-x. doi:10.1029/2003JD004259
- Crawford, J., Heald, C., Fuelberg, H., Morse, D., Sachse, G., Emmons, L., Gille, J., Edward, D., Deeter, M., Chen, G., Olson, J., Connors, V., Kittaka, C., & Hamlin, A. (2004). Relationship between Measurements of Pollution in the Troposphere (MOPITT) and in situ observations of CO based on a large-scale feature sampled during TRACE-P. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *109*(D15), 1-x. doi:10.1029/2003JD004308
- Heald, C., Jacob, D., Fiore, A., Emmons, L., Gille, J., Deeter, M., Warner, J., Edwards, D., Crawford, J., Hamlin, A., Sachse, G., Browell, E., Avery, M., Vay, S., Westberg, D., Blake, D., Singh, H., Sandholm, S., Talbot, R., & Fuelberg, H. (2003). Asian outflow and trans-Pacific transport of carbon monoxide and ozone pollution: An integrated satellite,

- aircraft, and model perspective. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 108(D24), 4804. doi:10.1029/2003JD003507
- Palmer, P., Jacob, D., Mickley, L., Blake, D., Sachse, G., Fuelberg, H., & Kiley, C. (2003). Eastern Asian emissions of anthropogenic halocarbons deduced from aircraft concentration data. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 108(D24), 8813. doi:10.1029/2003JD003591
- Jordan, C., Anderson, B., Talbot, R., Dibb, J., Fuelberg, H., Hudgins, C., Kiley, C., Russo, R., Scheuer, E., Seid, G., Thornhill, K., & Winstead, E. (2003). Chemical and physical properties of bulk aerosols within four sectors observed during TRACE-P. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 108(D21), 8813. doi:10.1029/2002JD003337
- Kiley, C., Fuelberg, H., Palmer, P., Allen, D., Carmichael, G., Jacob, D., Mari, C., Pierce, R., Pickering, K., Tang, Y., Wild, O., Fairlie, T., Logan, J., Sachse, G., Shaack, T., & Streets, D. (2003). An intercomparison and evaluation of aircraft-derived and simulated CO from seven chemical transport models during the TRACE-P experiment. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 108(D21), 8819. doi:10.1029/2002JD003089
- Ma, Y., Weber, R., Lee, Y., Orsini, D., Maxwell-Meier, K., Thornton, D., Bandy, A., Clarke, A., Blake, D., Sachse, G., Fuelberg, H., Kiley, C., Woo, J., Streets, D., & Carmichael, G. (2003). Characteristics and influence of biosmoke on the fine-particle ionic composition measured in Asian outflow during the Transport and Chemical Evolution Over the Pacific (TRACE-P) experiment. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 108(D21), 8816. doi:10.1029/2002JD003128
- Weber, R., Lee, S., Chen, G., Wang, B., Kapustin, V., Moore, K., Clarke, A., Mauldin, L., Kosciuch, E., Cantrell, C., Eisele, F., Thornton, D., Bandy, A., Sachse, G., & Fuelberg, H. (2003). New particle formation in anthropogenic plumes advecting from Asia observed during TRACE-P. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 108(D21), 8814. doi:10.1029/2002JD003112
- Simpson, I., Wingenter, O., Westberg, D., Fuelberg, H., Kiley, C., Crawford, J., Meinardi, S., Blake, D., & Rowland, F. (2003). Airborne measurements of cirrus-activated C(2)Ckl(4) depletion in the upper troposphere with evidence against Cl reactions. *GEOPHYSICAL RESEARCH LETTERS*, 30(20), 2025. doi:10.1029/2003GL017598
- Blake, N., Blake, D., Simpson, I., Meinardi, S., Swanson, A., Lopez, J., Katzenstein, A., Barletta, B., Shirai, T., Atlas, E., Sachse, G., Avery, M., Vay, S., Fuelberg, H., Kiley, C., Kita, K., & Rowland, F. (2003). NMHCs and halocarbons in Asian continental outflow during the Transport and Chemical Evolution over the Pacific (TRACE-P) Field Campaign: Comparison with PEM-West B. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 108(D20), 8806. doi:10.1029/2002JD003367

- Browell, E., Fenn, M., Butler, C., Grant, W., Brackett, V., Hair, J., Avery, M., Newell, R., Hu, Y., Fuelberg, H., Jacob, D., Anderson, B., Atlas, E., Blake, D., Brune, W., Dibb, J., Fried, A., Heikes, B., Sachse, G., Sandholm, S., Singh, H., Talbot, R., Vay, S., Weber, R., & Bartlett, K. (2003). Large-scale ozone and aerosol distributions, air mass characteristics, and ozone fluxes over the western Pacific Ocean in late winter/early spring. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *108(D20)*, 8805. doi:10.1029/2002JD003290
- Hannan, J., Fuelberg, H., Crawford, J., Sachse, G., & Blake, D. (2003). Role of wave cyclones in transporting boundary layer air to the free troposphere during the spring 2001 NASA/TRACE-P experiment. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *108(D20)*, 8785. doi:10.1029/2002JD003105
- Jordan, C., Dibb, J., Anderson, B., & Fuelberg, H. (2003). Uptake of nitrate and sulfate on dust aerosols during TRACE-P. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *108(D21)*, 1-10. doi:10.1029/2002JD003101
- Jordan, C., Dibb, J., Anderson, B., & Fuelberg, H. (2003). Uptake of nitrate and sulfate on dust aerosols during TRACE-P. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *108(D21)*, 1-10. doi:10.1029/2002JD003101
- Miyazaki, Y., Kondo, Y., Koike, M., Fuelberg, H., Kiley, C., Kita, K., Takegawa, N., Sachse, G., Flocke, F., Weinheimer, A., Singh, H., Eisele, F., Zondlo, M., Talbot, R., Sandholm, S., Avery, M., & Blake, D. (2003). Synoptic-scale transport of reactive nitrogen over the western Pacific in spring. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *108(D20)*, 8788. doi:10.1029/2002JD003248
- Russo, R., Talbot, R., Dibb, J., Scheuer, E., Seid, G., Jordan, C., Fuelberg, H., Sachse, G., Avery, M., Vay, S., Blake, D., Blake, N., Atlas, E., Fried, A., Sandholm, S., Tan, D., Singh, H., Snow, J., & Heikes, B. (2003). Chemical composition of Asian continental outflow over the western Pacific: Results from Transport and Chemical Evolution over the Pacific (TRACE-P). *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *108(D20)*, 8804. doi:10.1029/2002JD003184
- Simpson, I., Blake, N., Blake, D., Atlas, E., Flocke, F., Crawford, J., Fuelberg, H., Kiley, C., Meinardi, S., & Rowland, F. (2003). Photochemical production and evolution of selected C-2-C-5 alkyl nitrates in tropospheric air influenced by Asian outflow. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *108(D20)*, 8808. doi:10.1029/2002JD002830
- Martin, B., Fuelberg, H., Blake, N., Crawford, J., Logan, J., Blake, D., & Sachse, G. (2002). Long-range transport of Asian outflow to the equatorial Pacific. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *108(D2)*, 8322. doi:10.1029/2001JD001418

- Singh, H., Anderson, B., Avery, M., Viezee, W., Chen, Y., Tabazadeh, A., Hamill, P., Pueschel, R., Fuelberg, H., & Hannan, J. (2002). Global distribution and sources of volatile and nonvolatile aerosol in the remote troposphere. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *107(D11)*, 1-x. doi:10.1029/2001JD000486
- Lericos, T., Fuelberg, H., Watson, A., & Holle, R. (2002). Warm season lightning distributions over the Florida peninsula as related to synoptic patterns. *WEATHER AND FORECASTING*, *17(1)*, 83-98. doi:10.1175/1520-0434(2002)017[0083:WSLDOT>2
- Avery, M., Westberg, D., Fuelberg, H., Newell, R., Anderson, B., Vay, S., Sachse, G., & Blake, D. (2001). Chemical transport across the ITCZ in the central Pacific during an El Nino-Southern Oscillation cold phase event in March-April 1999. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *106(D23)*, 32539-32553. doi:10.1029/2001JD000728
- Avery, M., Westberg, D., Fuelberg, H., Newell, R., Anderson, B., Vay, S., Sachse, G., & Blake, D. (2001). Chemical transport across the ITCZ in the central Pacific during an El Nino-Southern Oscillation cold phase event in March-April 1999. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *106(D23)*, 32539-32553. doi:10.1029/2001JD000728
- Avery, M., Westberg, D., Fuelberg, H., Newell, R., Anderson, B., Vay, S., Sachse, G., & Blake, D. (2001). Chemical transport across the ITCZ in the central Pacific during an El Nino-Southern Oscillation cold phase event in March-April 1999. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *106(D23)*, 32539-32553. doi:10.1029/2001JD000728
- Browell, E., Fenn, M., Butler, C., Grant, W., Ismail, S., Ferrare, R., Kooi, S., Brackett, V., Clayton, M., Avery, M., Barrick, J., Fuelberg, H., Maloney, J., Newell, R., Zhu, Y., Mahoney, M., Anderson, B., Blake, D., Brune, W., Heikes, B., Sachse, G., Singh, H., & Talbot, R. (2001). Large-scale air mass characteristics observed over the remote tropical Pacific Ocean during March-April 1999: Results from PEM-Tropics B field experiment. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *106(D23)*, 32481-32501. doi:10.1029/2001JD900001
- Clarke, A., Collins, W., Rasch, P., Kapustin, V., Moore, K., Howell, S., & Fuelberg, H. (2001). Dust and pollution transport on global scales: Aerosol measurements and model predictions. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *106(D23)*, 32555-32569. doi:10.1029/2000JD900842
- Fuelberg, H., Newell, R., Westberg, D., Maloney, J., Hannan, J., Martin, B., Avery, M., & Zhu, Y. (2001). A meteorological overview of the second Pacific Exploratory Mission in the Tropics. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *106(D23)*, 32427-32443. doi:10.1029/2001JD900173

- Maloney, J., Fuelberg, H., Avery, M., Crawford, J., Blake, D., Heikes, B., Sachse, G., Sandholm, S., Singh, H., & Talbot, R. (2001). Chemical characteristics of air from different source regions during the second Pacific Exploratory Mission in the Tropics (PEM-Tropics B). *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *106(D23)*, 32609-32625. doi:10.1029/2001JD900100
- Raper, J., Kleb, M., Jacob, D., Davis, D., Newell, R., Fuelberg, H., Bendura, R., Hoell, J., & McNeal, R. (2001). Pacific Exploratory Mission in the tropical Pacific: PEM-Tropics B, March-April 1999. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *106(D23)*, 32401-32425. doi:10.1029/2000JD900833
- Stellman, K., Fuelberg, H., Garza, R., & Mullusky, M. (2001). An examination of radar and rain gage-derived mean areal precipitation over Georgia watersheds. *WEATHER AND FORECASTING*, *16(1)*, 133-144. doi:10.1175/1520-0434(2001)016[0133:AEORAR>2
- Rao, P., & Fuelberg, H. (2000). An investigation of convection behind the Cape Canaveral sea-breeze front. *MONTHLY WEATHER REVIEW*, *128(10)*, 3437-3458. doi:10.1175/1520-0493(2000)128[3437:AIOCBT>2
- Bieberbach, G., Fuelberg, H., Thompson, A., Schmitt, A., Hannan, J., Gregory, G., Kondo, Y., Knabb, R., Sachse, G., & Talbot, R. (2000). Mesoscale numerical investigations of air traffic emissions over the North Atlantic during SONEX flight 8: A case study. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *105(D3)*, 3821-3832. doi:10.1029/1999JD901036
- Fuelberg, H., Hannan, J., van Velthoven, P., Browell, E., Bieberbach, G., Knabb, R., Gregory, G., Pickering, K., & Selkirk, H. (2000). A meteorological overview of the Subsonic Assessment Ozone and Nitrogen Oxide Experiment (SONEX) period. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *105(D3)*, 3633-3651. doi:10.1029/1999JD900917
- Fuelberg, H., Hannan, J., van Velthoven, P., Browell, E., Bieberbach, G., Knabb, R., Gregory, G., Pickering, K., & Selkirk, H. (2000). A meteorological overview of the Subsonic Assessment Ozone and Nitrogen Oxide Experiment (SONEX) period. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *105(D3)*, 3633-3651. doi:10.1029/1999JD900917
- Fuelberg, H., Hannan, J., van Velthoven, P., Browell, E., Bieberbach, G., Knabb, R., Gregory, G., Pickering, K., & Selkirk, H. (2000). A meteorological overview of the Subsonic Assessment Ozone and Nitrogen Oxide Experiment (SONEX) period. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, *105(D3)*, 3633-3651. doi:10.1029/1999JD900917
- Grant, W., Browell, E., Butler, C., Fenn, M., Clayton, M., Hannan, J., Fuelberg, H., Blake, D., Blake, N., Gregory, G., Heikes, B., Sachse, G., Singh, H., Snow, J., & Talbot, R. (2000). A case study of transport of tropical marine boundary layer and lower tropospheric air

- masses to the northern midlatitude upper troposphere. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 105(D3), 3757-3769. doi:10.1029/1999JD901022
- Hannan, J., Fuelberg, H., Thompson, A., Bieberbach, G., Knabb, R., Kondo, Y., Anderson, B., Browell, E., Gregory, G., Sachse, G., & Singh, H. (2000). Atmospheric chemical transport based on high-resolution model-derived winds: A case study. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 105(D3), 3807-3820. doi:10.1029/1999JD900989
- Hannan, J., Fuelberg, H., Thompson, A., Bieberbach, G., Knabb, R., Kondo, Y., Anderson, B., Browell, E., Gregory, G., Sachse, G., & Singh, H. (2000). Atmospheric chemical transport based on high-resolution model-derived winds: A case study. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 105(D3), 3807-3820. doi:10.1029/1999JD900989
- Simpson, I., Sive, B., Blake, D., Blake, N., Chen, T., Lopez, J., Anderson, B., Sachse, G., Vay, S., Fuelberg, H., Kondo, Y., Thompson, A., & Rowland, F. (2000). Nonmethane hydrocarbon measurements in the North Atlantic Flight Corridor during the Subsonic Assessment Ozone and Nitrogen Oxide Experiment. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 105(D3), 3785-3793. doi:10.1029/1999JD900750
- Pougatchev, N., Sachse, G., Fuelberg, H., Rinsland, C., Chatfield, R., Connors, V., Jones, N., Notholt, J., Novelli, P., & Reichle, H. (1999). Pacific Exploratory Mission-Tropics carbon monoxide measurements in historical context. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 104(D21), 26195-26207. doi:10.1029/1999JD900465
- Ferry, G., Pueschel, R., Strawa, A., Kondo, Y., Howard, S., Verma, S., Mahoney, M., Bui, T., Hannan, J., & Fuelberg, H. (1999). Effects of aircraft on aerosol abundance in the upper troposphere. *GEOPHYSICAL RESEARCH LETTERS*, 26(15), 2399-2402. doi:10.1029/1999GL900445
- Rao, P., Fuelberg, H., & Droegemeier, K. (1999). High-resolution modeling of the Cape Canaveral area land-water circulations and associated features. *MONTHLY WEATHER REVIEW*, 127(8), 1808-1821. doi:10.1175/1520-0493(1999)127[1808:HRMOTC>2
- Blake, N., Blake, D., Wingenter, O., Sive, B., McKenzie, L., Lopez, J., Simpson, I., Fuelberg, H., Sachse, G., Anderson, B., Gregory, G., Carroll, M., Albercook, G., & Rowland, F. (1999). Influence of southern hemispheric biomass burning on midtropospheric distributions of nonmethane hydrocarbons and selected halocarbons over the remote South Pacific. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 104(D13), 16213-16232. doi:10.1029/1999JD900067
- Board, A., Fuelberg, H., Gregory, G., Heikes, B., Schultz, M., Blake, D., Dibb, J., Sandholm, S., & Talbot, R. (1999). Chemical characteristics of air from differing source regions during the Pacific Exploratory Mission-Tropics A (PEM-Tropics A). *JOURNAL OF*

GEOPHYSICAL RESEARCH-ATMOSPHERES, 104(D13), 16181-16196.
doi:10.1029/1999JD900021

- Fenn, M., Browell, E., Butler, C., Grant, W., Kooi, S., Clayton, M., Gregory, G., Newell, R., Zhu, Y., Dibb, J., Fuelberg, H., Anderson, B., Bandy, A., Blake, D., Bradshaw, J., Heikes, B., Sachse, G., Sandholm, S., Singh, H., Talbot, R., & Thornton, D. (1999). Ozone and aerosol distributions and air mass characteristics over the South Pacific during the burning season. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 104(D13), 16197-16212. doi:10.1029/1999JD900065
- Davis, D., Chen, G., Bandy, A., Thornton, D., Eissele, F., Mauldin, L., Tanner, D., Lenschow, D., Fuelberg, H. E., Huebert, B., Heath, J., Clarke, A., & Blake, D. (1999). Dimethyl sulfide oxidation in the equatorial Pacific: Comparison of model simulations with field observations for DMS, SO₂, H₂SO₄(g), MSA(g), MS and NSS. *Journal of Geophysical Research: Atmospheres*, 104(D5), 5765-5784.
- Fuelberg, H., Newell, R., Longmore, S., Zhu, Y., Westberg, D., Browell, E., Blake, D., Gregory, G., & Sachse, G. (1999). A meteorological overview of the Pacific Exploratory Mission (PEM) Tropics period. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 104(D5), 5585-5622. doi:10.1029/98JD01215
- Gregory, G., Westberg, D., Shipham, M., Blake, D., Newell, R., Fuelberg, H., Talbot, R., Heikes, B., Atlas, E., Sachse, G., Anderson, B., & Thornton, D. (1999). Chemical characteristics of Pacific tropospheric air in the region of the Intertropical Convergence Zone and South Pacific Convergence Zone. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 104(D5), 5677-5696. doi:10.1029/98JD01357
- Hoell, J., Davis, D., Jacob, D., Rodgers, M., Newell, R., Fuelberg, H., McNeal, R., Raper, J., & Bendura, R. (1999). Pacific Exploratory Mission in the tropical Pacific: PEM-Tropics A, August-September 1996. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 104(D5), 5567-5583. doi:10.1029/1998JD100074
- Lenning, E., Fuelberg, H., & Watson, W. (1998). An evaluation of WSR-88D severe hail algorithms along the northeastern Gulf Coast. *WEATHER AND FORECASTING*, 13(4), 1029-1044. doi:10.1175/1520-0434(1998)013[1029:AEOWSH>2
- Rao, P., & Fuelberg, H. (1998). An evaluation of GOES-8 retrievals. *JOURNAL OF APPLIED METEOROLOGY*, 37(12), 1577-1587.
doi:10.1175/1520-0450(1998)037[1577:AEOGR>2.
- Camp, J., Watson, A., & Fuelberg, H. (1998). The diurnal distribution of lightning over north Florida and its relation to the prevailing low-level flow. *WEATHER AND FORECASTING*, 13(3, Part 2), 729-739.
doi:10.1175/1520-0434(1998)013[0729:TDDOLO>2

- Knabb, R., & Fuelberg, H. (1997). A comparison of the first-guess dependence of precipitable water estimates from three techniques using GOES data. *JOURNAL OF APPLIED METEOROLOGY*, 36(5), 417-427. doi:10.1175/1520-0450(1997)036[0417:ACOTFG>2
- Rao, P., & Fuelberg, H. (1997). Diagnosing convective instability from GOES-8 radiances. *JOURNAL OF APPLIED METEOROLOGY*, 36(4), 350-364. doi:10.1175/1520-0450(1997)036[0350:DCIFGR>2
- Bachmeier, A., & Fuelberg, H. (1996). A meteorological overview of the TRACE a period. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 101(D19), 23881-23888. doi:10.1029/96JD01310
- Browell, E., Fenn, M., Butler, C., Grant, W., Clayton, M., Fishman, J., Bachmeier, A., Anderson, B., Gregory, G., Fuelberg, H., Bradshaw, J., Sandholm, S., Blake, D., Heikes, B., Sachse, G., Singh, H., & Talbot, R. (1996). Ozone and aerosol distributions and air mass characteristics over the South Atlantic Basin during the burning season. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 101(D19), 24043-24068. doi:10.1029/95JD02536
- Fuelberg, H., Loring, R., Watson, M., Sinha, M., Pickering, K., Thompson, A., Sachse, G., Blake, D., & Schoeberl, M. (1996). TRACE a trajectory intercomparison .2. Isentropic and kinematic methods. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 101(D19), 23927-23939. doi:10.1029/95JD02122
- Fuelberg, H., VanAusdall, J., Browell, E., & Longmore, S. (1996). Meteorological conditions associated with vertical distributions of aerosols off the west coast of Africa. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 101(D19), 24105-24115. doi:10.1029/95JD02889
- Gregory, G., Fuelberg, H., Longmore, S., Anderson, B., Collins, J., & Blake, D. (1996). Chemical characteristics of tropospheric air over the tropical South Atlantic ocean: Relationship to trajectory history. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 101(D19), 23957-23972. doi:10.1029/96JD01160
- Heikes, B., Lee, M., Jacob, D., Talbot, R., Bradshaw, J., Singh, H., Blake, D., Anderson, B., Fuelberg, H. E., & Thompson, A. M. (1996). Ozone, hydroperoxides, oxides of nitrogen, and hydrocarbon budgets in the marine boundary layer over the south Atlantic. *Journal of Geophysical Research: Atmospheres*, 101(D19), 24221-24234.
- Krishnamurti, T. N., Sinha, M. C., Kanamitsu, M., Oosterhof, D., Fuelberg, H. E., Chatfield, R., Jacob, D. J., & Logan, J. (1996). Passive tracer transport relevant to the TRACE-A experiment. *Journal of Geophysical Research*, 101(D19), 23889-23907.
- Loring, R., Fuelberg, H., Fishman, J., Watson, M., & Browell, E. (1996). Influence of a middle-latitude cyclone on tropospheric ozone distributions during a period of TRACE

- A. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 101(D19), 23941-23956. doi:10.1029/95JD03573
- Pickering, K., Thompson, A., McNamara, D., Schoeberl, M., Fuelberg, H., Loring, R., Watson, M., Fakhruzzaman, K., & Bachmeier, A. (1996). TRACE a trajectory intercomparison .1. Effects of different input analyses. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 101(D19), 23909-23925. doi:10.1029/95JD03297
- Singh, H., Herlth, D., Kolyer, R., Chatfield, R., Viezee, W., Salas, L., Chen, Y., Bradshaw, J., Sandholm, S., Talbot, R., Gregory, G., Anderson, B., Sachse, G., Browell, E., Bachmeier, A., Blake, D., Heikes, B., Jacob, D., & Fuelberg, H. (1996). Impact of biomass burning emissions on the composition of the South Atlantic troposphere: Reactive nitrogen and ozone. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 101(D19), 24203-24219. doi:10.1029/96JD01018
- Elsner, J., Fuelberg, H., Deal, R., Orrock, J., Lehmilller, G., & Ruscher, P. (1996). Tallahassee, Florida, minimum temperature anomaly: Description and speculations. *BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY*, 77(4), 721-728. doi:10.1175/1520-0477(1996)077[0721:TFMTAD>2
- FUELBERG, H., RAO, P., & HILLGER, D. (1995). CLUSTERING OF SATELLITE SOUNDING RADIANCES TO INVESTIGATE INTENSE LOW-LEVEL HUMIDITY GRADIENTS. *JOURNAL OF APPLIED METEOROLOGY*, 34(7), 1525-1535. doi:10.1175/1520-0450-34.7.1525
- MULLER, B., FUELBERG, H., & XIANG, X. (1994). SIMULATIONS OF THE EFFECTS OF WATER-VAPOR, CLOUD LIQUID WATER, AND ICE ON AMSU MOISTURE CHANNEL BRIGHTNESS TEMPERATURES. *JOURNAL OF APPLIED METEOROLOGY*, 33(10), 1133-1154. doi:10.1175/1520-0450(1994)033[1133:SOTEOW>2
- FUELBERG, H., & BIGGAR, D. (1994). THE PRECONVECTIVE ENVIRONMENT OF SUMMER THUNDERSTORMS OVER THE FLORIDA PANHANDLE. *WEATHER AND FORECASTING*, 9(3), 316-326. doi:10.1175/1520-0434(1994)009[0316:TPEOST>2
- GUILLORY, A., JEDLOVEC, G., & FUELBERG, H. (1993). A TECHNIQUE FOR DERIVING COLUMN-INTEGRATED WATER-CONTENT USING VAS SPLIT-WINDOW DATA. *JOURNAL OF APPLIED METEOROLOGY*, 32(7), 1226-1241. doi:10.1175/1520-0450(1993)032[1226:ATFDCI>2

- KRISHNAMURTI, T., FUELBERG, H., SINHA, M., OOSTERHOF, D., BENSMAN, E., & KUMAR, V. (1993). THE METEOROLOGICAL ENVIRONMENT OF THE TROPOSPHERIC OZONE MAXIMUM OVER THE TROPICAL SOUTH-ATLANTIC OCEAN. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 98(D6), 10621-10641. doi:10.1029/93JD00322
- MULLER, B., FUELBERG, H., & SMITH, E. (1993). AN ALTERNATIVE REPRESENTATION OF THE ICE CANOPY FOR CALCULATING MICROWAVE BRIGHTNESS TEMPERATURES OVER A THUNDERSTORM. *JOURNAL OF APPLIED METEOROLOGY*, 32(5), 1006-1013. doi:10.1175/1520-0450(1993)032[1006:AAROTI]>2
- BRADSHAW, J., & FUELBERG, H. (1993). AN EVALUATION OF HIGH-RESOLUTION INTERFEROMETER SOUNDINGS AND THEIR USE IN MESOSCALE ANALYSES. *JOURNAL OF APPLIED METEOROLOGY*, 32(3), 522-538. doi:10.1175/1520-0450(1993)032[0522:AEOHRI]>2
- FUELBERG, H., & BREIDENBACH, J. (1992). TIME TRENDS OF VAS SATELLITE-DERIVED SOUNDINGS. *MONTHLY WEATHER REVIEW*, 120(8), 1603-1615. doi:10.1175/1520-0493(1992)120[1603:TTOVSD]>2
- FUELBERG, H., SCHUDALLA, R., & GUILLORY, A. (1991). ANALYSIS OF SUDDEN MESOSCALE DRYING AT THE SURFACE. *MONTHLY WEATHER REVIEW*, 119(6), 1391-1406. doi:10.1175/1520-0493(1991)119[1391:AOSMDA]>2
- FUELBERG, H., & OLSON, S. (1991). AN ASSESSMENT OF VAS-DERIVED RETRIEVALS AND PARAMETERS USED IN THUNDERSTORM FORECASTING. *MONTHLY WEATHER REVIEW*, 119(3), 795-814. doi:10.1175/1520-0493(1991)119[0795:AAOVDR]>2
- FUELBERG, H., & OLSON, S. (1991). AN ASSESSMENT OF VAS-DERIVED RETRIEVALS AND PARAMETERS USED IN THUNDERSTORM FORECASTING. *MONTHLY WEATHER REVIEW*, 119(3), 795-814. doi:10.1175/1520-0493(1991)119[0795:AAOVDR]>2
- FUELBERG, H., & OLSON, S. (1991). AN ASSESSMENT OF VAS-DERIVED RETRIEVALS AND PARAMETERS USED IN THUNDERSTORM FORECASTING. *MONTHLY WEATHER REVIEW*, 119(3), 795-814. doi:10.1175/1520-0493(1991)119[0795:AAOVDR]>2
- MULLER, B., & FUELBERG, H. (1990). A SIMULATION AND DIAGNOSTIC STUDY OF WATER-VAPOR IMAGE DRY BANDS. *MONTHLY WEATHER REVIEW*, 118(3), 705-722. doi:10.1175/1520-0493(1990)118[0705:ASADSO]>2

- FUELBERG, H., & BUECHLER, D. (1989). ENERGY ANALYSIS OF CONVECTIVELY INDUCED WIND PERTURBATIONS. *MONTHLY WEATHER REVIEW*, 117(4), 745-764. doi:10.1175/1520-0493(1989)117[0745:EAOCIW>2
- FUELBERG, H., & BUECHLER, D. (1989). ENERGY ANALYSIS OF CONVECTIVELY INDUCED WIND PERTURBATIONS. *MONTHLY WEATHER REVIEW*, 117(4), 745-764. doi:10.1175/1520-0493(1989)117[0745:EAOCIW>2
- FUELBERG, H., & FUNK, T. (1987). DIAGNOSIS OF VERTICAL MOTION FROM VAS RETRIEVALS. *JOURNAL OF CLIMATE AND APPLIED METEOROLOGY*, 26(12), 1655-1670. doi:10.1175/1520-0450(1987)026[1655:DOVMFV>2
- FUELBERG, H., LIN, Y., & CHANG, H. (1986). A MOISTURE ANALYSIS OF THE MESO BETA-SCALE THUNDERSTORM ENVIRONMENT DURING AVE-SESAME V (20-21 MAY 1979). *MONTHLY WEATHER REVIEW*, 114(3), 534-545. doi:10.1175/1520-0493(1986)114[0534:AMAOTM>2
- BUECHLER, D., & FUELBERG, H. (1986). BUDGETS OF DIVERGENT AND ROTATIONAL KINETIC-ENERGY DURING 2 PERIODS OF INTENSE CONVECTION. *MONTHLY WEATHER REVIEW*, 114(1), 95-114. doi:10.1175/1520-0493(1986)114[0095:BODARK>2
- FUELBERG, H., & MEYER, P. (1986). AN ANALYSIS OF MESOSCALE VAS RETRIEVALS USING STATISTICAL STRUCTURE FUNCTIONS. *JOURNAL OF CLIMATE AND APPLIED METEOROLOGY*, 25(1), 59-76. doi:10.1175/1520-0450(1986)025[0059:AAOMVR>2
- FUELBERG, H., & MEYER, P. (1986). AN ANALYSIS OF MESOSCALE VAS RETRIEVALS USING STATISTICAL STRUCTURE FUNCTIONS. *JOURNAL OF CLIMATE AND APPLIED METEOROLOGY*, 25(1), 59-76. doi:10.1175/1520-0450(1986)025[0059:AAOMVR>2
- FUELBERG, H., RUMINSKI, M., & STARR, D. (1985). MESOSCALE GENERATION OF AVAILABLE POTENTIAL-ENERGY IN THE WARM SECTOR OF AN EXTRATROPICAL CYCLONE. *MONTHLY WEATHER REVIEW*, 113(7), 1150-1165. doi:10.1175/1520-0493(1985)113[1150:MGOAPE>2
- FUELBERG, H., & MEYER, P. (1984). AN ANALYSIS OF THE AVE-SESAME-I PERIOD USING STATISTICAL STRUCTURE AND CORRELATION-FUNCTIONS. *MONTHLY WEATHER REVIEW*, 112(8), 1562-1576. doi:10.1175/1520-0493(1984)112[1562:AAOTAI>2

- FUELBERG, H., & PRINTY, M. (1984). A KINETIC-ENERGY ANALYSIS OF THE MESO BETA-SCALE SEVERE STORM ENVIRONMENT. *JOURNAL OF THE ATMOSPHERIC SCIENCES*, 41(22), 3212-3226. doi:10.1175/1520-0469(1984)041[3212:AKEAOT>2
- FUELBERG, H., & BROWNING, P. (1983). ROLES OF DIVERGENT AND ROTATIONAL WINDS IN THE KINETIC-ENERGY BALANCE DURING INTENSE CONVECTIVE ACTIVITY. *MONTHLY WEATHER REVIEW*, 111(11), 2176-2193. doi:10.1175/1520-0493(1983)111[2176:RODARW>2
- FUELBERG, H., & PRINTY, M. (1983). MESO BETA-SCALE THUNDERSTORM ENVIRONMENT INTERACTIONS DURING AVE-SESAME-V (20-21 MAY 1979). *BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY*, 64(10), 1144-1156.
- BELT, C., & FUELBERG, H. (1982). THE EFFECTS OF RANDOM ERRORS IN RAWINSONDE DATA ON DERIVED KINEMATIC QUANTITIES. *MONTHLY WEATHER REVIEW*, 110(2), 91-101. doi:10.1175/1520-0493(1982)110[0091:TEOREI>2
- FUELBERG, H., & JEDLOVEC, G. (1982). A SUBSYNOPTIC-SCALE KINETIC-ENERGY ANALYSIS OF THE RED RIVER VALLEY TORNADO OUTBREAK (AVE-SESAME-I). *MONTHLY WEATHER REVIEW*, 110(12), 2005-2024. doi:10.1175/1520-0493(1982)110[2005:ASSKEA>2
- MOORE, J., & FUELBERG, H. (1981). A SYNOPTIC ANALYSIS OF THE 1ST AVE-SESAME 79 PERIOD. *BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY*, 62(11), 1577-1590.
- FUELBERG, H., & SCOGGINS, J. (1980). KINETIC-ENERGY BUDGET DURING STRONG JET-STREAM ACTIVITY OVER THE EASTERN-UNITED-STATES. *MONTHLY WEATHER REVIEW*, 108(1), 69-77. doi:10.1175/1520-0493(1980)108[0069:KEBDSJ>2
- FUELBERG, H., & SCOGGINS, J. (1978). KINETIC-ENERGY BUDGETS DURING LIFE-CYCLE OF INTENSE CONVECTIVE ACTIVITY. *MONTHLY WEATHER REVIEW*, 106(5), 637-653. doi:10.1175/1520-0493(1978)106[0637:KEBDTL>2

Contracts and Grants

Contracts and Grants Funded

Fuelberg, Henry E (PI). (Sep 2010–Sep 2011). *Lightning Launch Commit Criteria Improvement (LLCC) - Ra*. Funded by U. S. Dept. of the Air Force. Total award \$52,965.

- Fuelberg, Henry E (PI). (Sep 2010–Sep 2012). *Lightning Cessation with Dual Polarization Radar*. Funded by U. S. Dept. of the Air Force. Total award \$104,954.
- Fuelberg, Henry E (PI), & Navon, I. M. (Jun 2010–May 2014). *Data Assimilation of Lighting in WRF 4-D VAR Using Obser*. Funded by National Oceanic and Atmospher. Total award \$155,563.
- Fuelberg, Henry E (PI). (Nov 2009–Nov 2011). *Modeling Uncertainties of Atmospheric Transport - the WR*. Funded by U. S. Dept. of the Air Force. Total award \$116,265.
- Fuelberg, Henry E (PI). (Aug 2008–Aug 2009). *Space Grant Fellowship Program*. Funded by University of Central Florida. Total award \$12,000.
- Fuelberg, Henry E (PI). (Mar 2008–Feb 2009). *Use of NEXRAD Data to Develop climatologically Homogeneo*. Funded by University of Florida. Total award \$5,000.
- Fuelberg, Henry E (PI). (Feb 2008–Jan 2013). *Research on Artctic Transport Using a Synthesis of*. Funded by National Aeronautics & Space A. (NNX08AH72G). Total award \$490,619.
- Fuelberg, Henry E (PI). (Jan 2008–Sep 2008). *Use of NEXRAD Data to Develop Climatologically*. Funded by South Florida Water Management. Total award \$17,000.
- Fuelberg, Henry E (PI). (Nov 2007–Nov 2009). *Sensitivity Studies on Atmospheric Transport*. Funded by U. S. Dept. of the Air Force. Total award \$105,999.
- Fuelberg, Henry E (PI). (Aug 2007–May 2010). *Development and Evaluation of Mesoscale Lightening Threa*. Funded by University Corp for Atmos Res. Total award \$77,498.
- Fuelberg, Henry E (PI). (Jan 2007–Feb 2008). *Comparing Radar Derived Precipitation Values*. Funded by South Florida Water Management. 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 Co. Total award \$83,468.
- Fuelberg, Henry E (PI). (Jun 2006–May 2007). *Positive Lightning Research*. Funded by Florida Power and Light Co. Total award \$42,001.
- Fuelberg, Henry E (PI). (Mar 2006–Feb 2008). *Comparing Radar Derived Precipitation Values*. Funded by South Florida Water Management. Total award \$25,000.
- Fuelberg, Henry E (PI). (Mar 2006–Feb 2008). *Statistical Forecasting Of Lightning Cessation*. Funded by National Aeronautics & Space A. Total award \$59,470.

Fuelberg, Henry E (PI). (Jan 2006–Jul 2008). *WAM-MPE Modeling*. Funded by Florida Dept Environ Protection. Total award \$106,020.

Fuelberg, Henry E (PI). (Oct 2005–Feb 2009). *Analysis of DATA from INTEX-A and B in Support of Aura*. Funded by National Aeronautics & Space A. Total award \$283,809.

Fuelberg, Henry E (PI). (Oct 2004–Oct 2005). *Adding Two Additional Years to the High Resolution*. Funded by Florida Dept Environ Protection. Total award \$51,220.

Fuelberg, Henry E (PI). (Aug 2004–Sep 2005). *Completion of Tasks for Contract WM-849*. Funded by Florida Dept Environ Protection. Total award \$10,691.