

Scott Dennis Miller

Research Associate
Atmospheric Sciences Research Center
State University of New York at Albany
<http://asrc.albany.edu/people/faculty/miller>

251 Fuller Road L317
Albany, NY 12203
(518) 437-8799
smiller@albany.edu

Professional Preparation

University of California at Irvine, Engineering, Ph.D., 1998
University of California at Irvine, Engineering, M.S., 1994
State University of New York at Buffalo, Mechanical Engineering, B.S., 1991

Appointments

2005-Present Research Associate, Atmospheric Sciences Research Center and Adjunct Professor of Atmospheric and Environmental Sciences, SUNY Albany
2003-2005 Assistant Researcher, Earth System Science, UC Irvine
1998-2003 Post-Doctoral Researcher, Earth System Science, UC Irvine
1998-2000 Post-Doctoral Researcher, Mechanical Engineering, UC Irvine
1995 Graduate Teaching Assistant, Mechanical and Aerospace Engineering, UC Irvine
1991-1998 Research Assistant, Mechanical and Aerospace Engineering, UC Irvine
1989-1990 Engineering Intern, Hebel Corporation, Buffalo, NY

Refereed Publications

31. **Miller, S.D.**, M.L. Goulden, L.R. Hutrya, M. Keller, S.R. Saleska, S.C. Wofsy, A.M.S. Figueira, H.R. da Rocha, P.B. de Camargo (2011), Reduced Impact Logging Minimally Alters Tropical Rainforest Carbon and Energy Exchange, Proceedings of the National Academy of Sciences: doi: 10.1073/pnas.1105068108.
30. MacIntyre, S., A. Jonsson, M. Jansson, J. Aberg, D. E. Turney, and **S.D. Miller** (2010): Buoyancy flux, turbulence, and the gas transfer coefficient in a stratified lake *Geophys. Res. Lett.*, 37, L24604, doi:10.1029/2010GL044164.
29. **Miller, S. D.**, C. Marandino, and E. S. Saltzman (2010), Ship-based measurement of air-sea CO₂ exchange by eddy covariance, *J. Geophys. Res.*, 115, D02304, doi:10.1029/2009JD012193.
28. Fisher, J.B., Y. Malhi, A.C. de Araújo, D. Bonal, M. Gamo, M.L. Goulden, T. Hirano, A.R. Huete, H. Kondo, T. Kumagai, H.W. Loescher, **S.D. Miller**, et al. (2009); The land-atmosphere water flux in the tropics, *Global Change Biology* **15:11**, 2694-2714 ,doi: 10.1111/j.1365-2486.2008.01813.x.
27. **Miller, S.D.**, C.A. Marandino C.A., W.J.De Bruyn, and E.S. Saltzman (2009): Air-Sea Gas Exchange of CO₂ and DMS in the North Atlantic by Eddy Covariance, *Geophys. Res. Lett.*, 36, L15816, doi:10.1029/2009GL038907.
26. da Rocha, H.R., A.O. Manzi, O.M. Cabral, **S.D. Miller**, et. al. (2009). Patterns of water and heat flux across a biome gradient from tropical forest to savanna in Brazil. *J. Geophys. Res.*, 114, D20, 10.1029/2007JG000640.
25. Juárez, R.I.N., H. R. da Rocha, A.M.S. Figueira, M.L. Goulden, and **S.D. Miller** (2009). An improved estimate of leaf area index based on the histogram analysis of hemispherical

- photographs. *Agr. Forest Meteorol.* 149, 6-7: 920-928, doi:10.1016/j.agrformet.2008.11.012.
24. Marandino C.A., W.J. De Bruyn, **S.D. Miller**, and E.S. Saltzman (2008). DMS air/sea flux and gas transfer coefficients from the North Atlantic summertime coccolithophore bloom. *Geophys. Res. Lett.* 35, L23812, doi:10.1029/2008GL036370.
 23. Marandino C.A., W.J. De Bruyn, **S.D. Miller**, and E.S. Saltzman (2008). Open ocean DMS air/sea fluxes over the eastern South Pacific Ocean. *Atmos. Chem. Phys. Dis.* 8, 3: 12081-12114, doi:10.5194/acpd-8-12081-2008.
 22. Figueira, A. M. e S., **S. D. Miller**, C. A. D de Sousa, M. C. Menton, A. R. Maia, H. R. da Rocha, and M. L. Goulden (2008), Effects of selective logging on tropical forest tree growth, *J. Geophys. Res.*, 113, G00B05, doi:10.1029/2007JG000577.
 21. Baker, I. T., L. Prihodko, A. S. Denning, M. Goulden, **S.D. Miller**, and H. R. da Rocha (2008), Seasonal drought stress in the Amazon: Reconciling models and observations, *J. Geophys. Res.*, 113, G00B01, doi:10.1029/2007JG000644.
 20. **Miller, S.D.**, T.S. Hristov, J.B. Edson, and C.A. Friehe (2008): Platform Motion Effects on Measurements of Turbulence and Air-Sea Exchange Over the Open Ocean, *J. Atmos. Ocean. Tech.* 25(9), 1683–1694, doi:10.1175/2008JTECHO547.1.
 19. Marandino C.A., W.J. De Bruyn, **S.D. Miller**, and E.S. Saltzman (2007): Eddy correlation measurements of the air/sea flux of Dimethylsulfide Over the North Pacific Ocean. *J. Geophys. Res.-Atmos.* 112, doi:10.1029/2006JD007293.
 18. **Miller, S.D.**, M.L. Goulden, H.R. da Rocha (2007): The Effect of canopy gaps on subcanopy ventilation and scalar fluxes in a tropical forest, *Agr. Forest Meteorol.* 142:25-34, doi:10.1016/j.agrformet.2006.10.008.
 17. Goulden, M. L., M. Litvak, and **S.D. Miller** (2007): Factors that control Typha marsh evapotranspiration, *Aquatic Botany*, 86(2), 97-106, doi:10.1016/j.aquabot.2006.09.005.
 16. Bruno, R.D., H.R. da Rocha, H. Freitas, M. Goulden, and **S.D. Miller** (2006): Soil moisture dynamics in an eastern Amazonian tropical forest. *Hydrol. Process.* 20:2477-2489, DOI: 10.1002/hyp.6211.
 15. Doughty, C.E., M.L. Goulden, **S.D. Miller**, H.R. da Rocha (2006): Circadian rhythms constrain leaf and canopy gas exchange in an Amazonian forest, *Geophys. Res. Lett.* 33, doi:10.1029/2006GL026750.
 14. Goulden, M.L., **S.D. Miller**, and H.R. da Rocha (2006): Nocturnal cold air drainage and pooling in a tropical forest, *J. Geophys. Res.-Atmos.* 111, D08S04, doi:10.1029/2005JD006037.
 13. Marandino, C.A., W.J. De Bruyn, **S.D. Miller**, M.J. Prather, and E.S. Saltzman (2005): Oceanic uptake and the global atmospheric acetone budget. *Geophys. Res. Lett.* 32, L15806, doi:10.1029/2005GL023285.
 12. **Miller, S.D.**, M.L. Goulden, et al. (2004): Biometric and micrometeorological measurements of tropical forest carbon balance. *Ecol. Appl.* 14(4):S114 –S126, doi:10.1890/02-6005.
 11. Goulden, M.L., **S.D. Miller**, M.C. Menton, H.R. da Rocha, and H.C. Freitas (2004): Diel and seasonal patterns of tropical forest CO₂ exchange. *Ecol. Appl.* 14(4):S42 –S54, doi:10.1890/02-6008.
 10. Rocha, H.R., M.L. Goulden, **S.D. Miller**, et al. (2004): Seasonality of water and heat fluxes over a tropical forest in eastern Amazonia. *Ecol. Appl.* 14(4): S22 –S32, doi:10.1890/02-6001.

9. Keller, M., A. Alencar, G.P. Asner et al. (2004): Ecological research in the Large-scale Biosphere-Atmosphere experiment in Amazonia: early results. *Ecol. Appl.*, **14**(4):S3-16, doi:10.1890/03-6003.
8. Saleska, S.R., **Miller, S.D.**, Matross, D.M., Goulden, M.L., Wofsy, S., Rocha, H.R., Camargo, P.B., Crill, P., Daube, B.C., Freitas, H.C., Hutyyra, L., Keller, M., Kirchhoff, V., Menton, M., Munger, J.W., Hammond Pyle, E., Rice, A.H., and Silva, H. (2003): Carbon in Amazon Forests: Unexpected Seasonal Fluxes and Disturbance-Induced Losses. *Science* **302**:1554-1557, DOI: 10.1126/science.1091165.
7. Hristov, T.S., **S.D. Miller**, C.A. Friehe (2003): Wind and ocean surface waves: dynamics of coupling. *Nature*, March 7, 2003, doi:10.1038/nature01382.
6. Litvak, M., **S.D. Miller**, S. Wofsy, and M. Goulden (2002): Effect of stand age on whole ecosystem CO₂ exchange in Canadian boreal forest. *J. Geophys. Res.-Atmos.* **108** (D3): 8225, doi:10.1029/2001JD000854.
5. Grachev, A.A., C.W. Fairall, J.E. Hare, J.B. Edson, and **S.D. Miller** (2003): Wind stress vector over waves. *J. Phys. Oceanogr.* **33**(11):2408–2429, doi:10.1175/1520-0485(2003)033<2408:WSVOOW>2.0.CO;2.
4. Hristov, TS, **S.D. Miller**, and C.A. Friehe (2000): Linear time-invariant compensation of cup anemometer and vane inertia. *Bound-Lay Meteorol.* **97**(N2):293-307, DOI: 10.1023/A:1002742508203.
3. Shirer, H., G. Young, R. Wells, A. Rogers, J. Rishel, R. Mason, L. Suciu, N. Winstead, H. Henderson, D. Rinker, J. Rohrbach, J. Edson, C. Friehe, S. Wetzel, **S.D. Miller**, T. Hristov (1999): Identifying coherent structures in the marine atmospheric boundary layer, in Air-Sea Exchange: Physics, Chemistry and Dynamics, ed. G.L. Geernaert, Kluwer Academic Publishers, London, Chapter 18, pp 507-539.
2. Hristov, T., C. Friehe, and **S.D. Miller**, 1998: Wave-coherent fields in air flow over ocean waves: Identification of cooperative behavior buried in turbulence. *Phys. Rev. Lett.* **81**(23):5245-5248, 10.1103/PhysRevLett.81.5245.
1. **Miller, S.D.**, C.A. Friehe, T.S. Hristov, and J.B. Edson, 1997: Wind and turbulence profiles in the surface layer over ocean waves. Wind-Over-Wave Couplings-Perspectives and Prospects, Chapter 10, Oxford University Press.

Research Highlights

- 2012 Brown, A., “Selective Logging”, Research Highlight, Nature Climate Change **2**, 23, doi:10.1038/nclimate1361.
- 2011 MIT Scope interview, November 22.
- 2011 SUNY press release for Proceedings of the National Academy of Sciences “Reduced Impact Logging minimally impacts tropical forest carbon and energy exchange”
- 2011 RF SUNY interview/article on Southern Ocean gas exchange project
- 2010 Miller, S.D., Air-sea Gas Exchange of CO₂ and DMS in the North Atlantic by Eddy Covariance, SOLAS (Surface Ocean Lower Atmosphere Study) Newsletter, 10, pp. 16

Published Datasets

9. Goulden, M.L. S.D. Miller and H.R. da Rocha. 2010. LBA-ECO CD-04 Soil Moisture Data, km 83 Tower Site, Tapajos National Forest, Brazil. Data set. Available on-line [http://daac.ornl.gov] from Oak Ridge National Laboratory Distributed Active Archive Center, Oak Ridge, Tennessee, U.S.A. doi:10.3334/ORNLDAAAC/979

8. Miller, S.D., M.L. Goulden, H.R. da Rocha. 2010. LBA-ECO CD-04 CO₂ and Heat Flux, km 83 Gap Tower Site, Tapajos National Forest. Data set. Available on-line [<http://daac.ornl.gov>] from Oak Ridge National Laboratory Distributed Active Archive Center, Oak Ridge, Tennessee, U.S.A. doi:10.3334/ORNLDAAC/978
7. Miller, S.D., C.A. Marandino C.A., W.J.De Bruyn, and E.S. Saltzman (2009): Air-Sea Gas Exchange of CO₂ and DMS in the North Atlantic by Eddy Covariance, *Geophys. Res. Lett*, 36, L15816, doi:10.1029/2009GL038907 (supplemental online material).
6. Miller, S., M. Goulden, and H.R. da Rocha, 2009. LBA-ECO CD-04 CO₂ Profiles, km 83 Tower Site, Tapajos National Forest. Data set. Available on-line [<http://daac.ornl.gov>] from Oak Ridge National Laboratory Distributed Active Archive Center, Oak Ridge, Tennessee, U.S.A. doi:10.3334/ORNLDAAC/947
5. Miller, S., M. Goulden, and H.R. da Rocha, 2009. LBA-ECO CD-04 Meteorological and Flux Data, km 83 Tower Site, Tapajos National Forest. Data set. Available on-line [<http://daac.ornl.gov>] from Oak Ridge National Laboratory Distributed Active Archive Center, Oak Ridge, Tennessee, U.S.A. doi: 10.3334/ORNLDAAC/946
4. Figueira, A.M.S., S.D. Miller, C.A.D. de Sousa, M.C. Menton, A.R. Maia, H.R. da Rocha, and M.L. Goulden. 2011. LBA-ECO CD-04 Dendrometry, km 83 Tower Site, Tapajos National Forest, Brazil. Data set. Available on-line [<http://daac.ornl.gov>] from Oak Ridge National Laboratory Distributed Active Archive Center, Oak Ridge, Tennessee, U.S.A. doi:10.3334/ORNLDAAC/989
3. Menton, M.C., A.M.S. Figueira, C.A.D. de Sousa, S.D. Miller, H.R. da Rocha, and M.L. Goulden. 2011. LBA-ECO CD-04 Biomass Survey, km 83 Tower Site, Tapajos Nat a set. Available on-line [<http://daac.ornl.gov>] from Oak Ridge National Laboratory Distributed Active Archive Center, Oak Ridge, Tennessee, U.S.A. doi:10.3334/ORNLDAAC/990
2. Figueira, A.M.S., C.A.D. de Sousa, M.C. Menton, R.N. Juarez, H.R. da Rocha, S.D. Miller, and M.L. Goulden. 2011. LBA-ECO CD-04 Leaf Litter Data, km 83 Tower Site, Tapajos National Forest, Brazil. Data set. Available on-line [<http://daac.ornl.gov>] from Oak Ridge National Laboratory Distributed Active Archive Center, Oak Ridge, Tennessee, U.S.A. doi:10.3334/ORNLDAAC/991
1. Figueira, A.M.S., de Sousa, C.A.D., Menton, M.C., Juarez, R.N., da Rocha, H.R., Miller, S.D., and Goul den, M.L f Area Index, km 83 Tower Site, Tapajos National Forest, Brazil. Data set. Available on-line [<http://daac.ornl.gov>] from Oak Ridge National Laboratory Distributed Active Archive Center, Oak Ridge, Tennessee, U.S.A. doi:10.3334/ORNLDAAC/992

Teaching

2012 ATM529: Atmosphere-Ocean Interaction, spring semester, graduate level (cancelled insufficient enrollment)

Supported Research

5. Air-Sea Fluxes of Momentum, Heat, and Carbon Dioxide at High Wind Speeds in the Southern Ocean, Principle Investigator, NSF Office of Polar Programs, \$496K, Jun 2011-Jun 2014

4. Collaborative Research: Arctic to the Amazon: Physical Processes Controlling Gas Exchange from Freshwater Ecosystems, co-Principle Investigator, NSF Division of Environmental Biology, \$330K, Sep 2009-Sep 2012 (PI: Sally MacIntyre, UC Santa Barbara)
3. Collaborative Research: Air/sea Gas Exchange Studies of CO₂, DMS, and Acetone by Eddy Correlation, Principle Investigator, NSF Atmospheric Chemistry, \$274K, Jul 2009-Jul 2012 (Co-PIs: Eric Saltzman, UC Irvine, Warren DeBruyn, Chapman University)
2. Effects of Selective Logging on Carbon Dioxide and Energy Exchange in Tapajos National Forest, Principle Investigator, NASA, \$179K, 2006-2009 (co-PIs: Mike Goulden, UC Irvine, Humberto da Rocha, University of Sao Paulo)
1. Direct Measurements of CO₂, DMS, and Acetone over the Ocean, Principle Investigator, NSF Atmospheric Chemistry, 2004-2008. \$473K, (co-PI: Eric Saltzman, UC Irvine)

Journal and Proposal Reviewer

- 2012 EOS
- 2011 Agricultural and Forest Meteorology, Environmental Science and Technology, Global Change Biology, JGR-Oceans (2)
- 2010 Agricultural and Forest Meteorology (2), Boundary Layer Meteorology, Global Change Biology, JGR-Atmospheres, JGR-Biogeosciences, JGR-Oceans, NSF (2), NSERC-Canada, Tellus-B
- 2009 Agricultural and Forest Meteorology (2), Global Change Biology, Geophysical Research Letters, JGR-Atmospheres, International Geosphere Biosphere Program, NASA
- 2008 Agricultural and Forest Meteorology, JGR-Atmospheres, J. of Atmospheric and Oceanic Technology, LBA-ECO Conference: Amazon in Perspective, DOE-NICCR, NSF
- 2007 JGR-Atmospheres, J. of Atmospheric and Oceanic Technology, DOE-NICCR, NASA
- 2006 Agricultural and Forest Meteorology (2), Global Change Biology, NSF (3), NASA (2)
- 2005 Journal of Hydrometeorology, NSF (2)
- 2004 Ecological Applications, Global Biogeochemical Cycles
- 2003 Global Biogeochemical Cycles, Journal of Atmospheric and Oceanic Technology
- 2002 Global Change Biology, Bionetropica

University Service

- 2012 Search Committee Chair, Whiteface Mountain Observatory Technician

Synergistic Activities

- 2009-present: Advisory Group Member: The National Ecological Observatory Network (NEON) Fundamental Instrument Unit
- 2009 NASA panel member, Washington, DC
- 2008 present: Editorial Board Member: Agricultural and Forest Meteorology
- 2008 Session Chair, LBA-ECO Conference: Amazon in Perspective, Manaus, Brazil
- 2006 NASA panel member, Washington, DC
- 2004 WESTGEC panel member, Davis, CA

Outreach Activities and Professional Development

- 2012 Judge for Sub-Regional Junior Science and Humanities Symposium (JSHS) for Eastern New York, Physical Sciences
- 2011 BLOOMCRUISE: North Atlantic research blog (<http://bloomcruise.blogspot.com>)

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- 2011 presenter at Capital Region Chapter of the American Meteorological Society Career Night & Fair
- 2010 HALOCAST: Eastern Pacific research blog (<http://ocean.tamu.edu/research/research-cruises/687-chile>)
- 2009 AAAS/NSF Workshop – Communicating Science, Tools for Scientists and Engineers, Cornell University
- 2009 Science Research in the High School Program, SUNY Albany
- 2004 Physical Sciences Mentoring Program, UC Irvine – served as a mentor for female minority undergraduate physics student

Field Campaigns

- 2012 SOAP: Southern Ocean, February 12-March 7, New Zealand, R/V Tangaroa
- 2011 BLOOMCRUISE: North Atlantic Ocean, June 24-July 18, Woods Hole to Woods Hole, 25 days, R/V Knorr, Chief Scientist
- 2010 Lake Pleasant, New York (Sep 15-Oct 15): lake-atmosphere gas exchange
- 2010 HALOCAST: Eastern Pacific Ocean, March 20-April 18, Porto Montt, Chile to Seattle, Washington, 27 days, R/V Thompson
- 2009 Piseco Lake, New York (Sep 1-4, Oct 2-6, Nov 4-6): lake-atmosphere gas exchange
- 2009 Seneca Lake, New York (July 15-26): lake-atmosphere gas exchange
- 2007 North Atlantic Ocean, Reykjavik, Iceland to Woods Hole, Massachusetts, R/V Knorr, Jul 17-26, Chief Scientist
- 2007 North Atlantic Ocean, Bridgetown, Barbados to Reykjavik, Iceland, R/V Knorr, May 29-Jun 10, Chief Scientist
- 2007 North Atlantic Ocean, Woods Hole, Massachusetts to Bridgetown, Barbados, R/V Knorr, Apr 15-21, Chief Scientist
- 2006 Eastern Pacific Ocean, Manzanillo, Mexico to Puntas Arenas, Chile, R/V Knorr, Jan 2-21, Chief Scientist
- 2004 Santarem, Para, Brazil, Tapajos and Amazon Rivers - Air-water gas exchange measurements from Amazonian riverboat
- 2000-2004 Tapajos National Forest, Para, Brazil. Large Scale Biosphere-Atmosphere Experiment in Amazonia (LBA), forest-atmosphere exchange measurements
- 1998-2002 Boreal Forest, Manitoba, Canada
- 1995 Marine Boundary Layers Experiment II, R/P FLIP, 50 km off Monterey, CA, 30 days
- 1994 Marine Boundary Layers Experiment, R/P FLIP, off San Diego, CA, 10 days

Oral Conference Presentations and Invited Seminars

- 2011 Texas A&M University, “Measurement of air-sea CO₂ exchange by eddy covariance”
- 2010 NOAA HighWings Project meeting, “Air-sea CO₂ flux methodology”
- 2010 SUNY Stony Brook, SOMAS, “Measurement of air-sea CO₂ exchange by eddy covariance”
- 2009 8th International Carbon Dioxide Conference, Jena, Germany
- 2009 IFM-GEOMAR, Kiel, Germany: “Direct CO₂ and DMS Flux Measurements in the North Atlantic”.
- 2009 SUNY Albany, ATM 210, undergraduate demonstration of micrometeorological sensors.
- 2008 AGU Fall meeting, San Francisco, “Simultaneous Eddy Covariance CO₂ and DMS Flux Measurements in the North Atlantic”

- 2008 Amazon in Perspective: Integrated Science for a Sustainable Future, Manaus, Brazil, “The Effects of Selective Logging on Tropical Forest Carbon Cycling”.
- 2008 University of Connecticut, Groton, “Direct CO₂ and DMS Flux Measurements in the North Atlantic”
- 2008 SUNY Albany ATM 210 Weather Workshop, overview of research program
- 2007 12th LBA-ECO Science Conference, Salvador, Bahia, Brazil: “The Effects of Selective Logging on Tropical Forest Carbon Cycling”
- 2007 SUNY Albany, Atmospheric Sciences Research Center: “Effects of selective logging on carbon cycling in a tropical rainforest”
- 2006 11th LBA-ECO Science Conference, Brasilia, Brazil: “The Effects of Selective Logging on Tropical Forest-Atmosphere Exchange”
- 2005 10th LBA-ECO Science Conference, Sao Paulo, Brazil. “Boat-Based Eddy Covariance Measurements of CO₂ and H₂O Exchange Over Amazon and Tapajos Rivers and Lakes”
- 2005 Atmospheric Sciences Research Center, SUNY Albany: “Using Micrometeorological Techniques to Address Questions of Carbon Balance in the Amazon”
- 2004 AGU Fall meeting, San Francisco, “Boat-Based Eddy Covariance Measurements of CO₂ and H₂O Exchange Over Amazon and Tapajos Rivers and Lakes”
- 2004 9th LBA-ECO Science Conference, Brasilia, Brazil: “Carbon Dioxide Exchange of a Tropical Rainforest Before and After Selective Logging”
- 2003 9th LBA-ECO Science Conference, Fortaleza, Brazil: “Micrometeorology, CO₂ and H₂O Exchange of a Tropical Rainforest Before and After Selective Logging”
- 2003 Carbon Cycling in Tropical and Boreal Forests (in portugues), invited seminar, Federal University of Para (UFPA), Santarem, Para, Brazil
- 2003 UC Irvine, Earth System Science (department seminar): “Measuring the Effect of Selective Logging on Forest-Atmosphere Exchange”
- 2002 AGU Fall meeting: “Micrometeorology of a Tropical Rainforest Before and After Selective Logging”
- 2002 LBA meeting, Manaus, Brazil: “Tower- and Biometry-Based Measurements of Tropical Forest Carbon Balance”
- 2002 FLUXNET Synthesis Workshop, Orvieto, Italy: “Disturbance Effects on Ecosystem Carbon Balance in Tropical and Boreal Forests, invited seminar”
- 2002 AmeriFlux Workshop on Standardization of Flux Analysis and Diagnostics, Corvallis, Oregon, “Flux correction for cross contamination (Webb, Pearman, Leuning Correction)”
- 2002 University of Sao Paulo, Department of Atmospheric Sciences, Brazil: “Carbon Cycling in Tropical and Boreal Forests”
- 2001 LBA meeting, Atlanta, GA: “Measuring the Effect of Tropical Logging on Forest-Atmosphere Exchange”
- 2001 UC Irvine, Department of Earth System Science, “Measuring the Effect of Selective Logging on Forest-Atmosphere Exchange”
- 2001 LBA-ECO Science Steering Committee, Palmas, Tocantins, Brazil, “Measuring the effect of selective logging on tropical forest-atmosphere exchange
- 2000 AGU Fall meeting, San Francisco, CA: “Measuring the effect of tropical logging on forest-atmosphere exchange”
- 2000 SUNY Albany, Atmospheric Sciences Research Center. “Wind and Turbulence profiles over ocean waves”

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- 1999 American Meteorological Society, Dallas, Texas, “The wave-induced wind field above deep ocean waves
- 1997 12th Symposium on Boundary Layers and Turbulence, American Meteorological Society, Vancouver, British Columbia, “Wind and turbulence profiles in the surface layer over the ocean”
- 1996 Ocean Sciences Meeting, San Diego, CA, Special Section on Marine Boundary Layers, “Wind profile and turbulence over ocean waves”
- 1996 Marine Boundary Layers Meeting (Office of Naval Research), Scripps Institution of Oceanography, San Diego, CA, “Wave effects on turbulence in the marine boundary layer”
- 1995 American Physical Society, Irvine, CA, “Profiles of wind speed and Reynold’s stress over the open ocean”
- 1995 Marine Boundary Layers Meeting (Office of Naval Research), Irvine, CA, “Flux-profile measurements from R/P FLIP during MBL II”

Poster Presentations (first author only)

- 2009 SOLAS Open Science Conference, Barcelona, Spain, “Air-sea Gas Exchange of CO₂ and DMS in the North Atlantic by Eddy Covariance”
- 2006 Development of an Eddy Covariance System for Air-Sea Carbon Dioxide Exchange, AGU Fall meeting, San Francisco
- 2006 Boat-Based Eddy Covariance Measurements of CO₂ Exchange Over Amazon and Tapajos Rivers and Lakes, Brasilia, Brazil
- 2006 The Effect of Canopy Gaps on Subcanopy Ventilation and Scalar Fluxes above a Tropical Forest, Baltimore, MD, NASA Carbon Meeting
- 2004 Micrometeorology, CO₂ and H₂O Exchange of a Tropical Rainforest Before and After Selective Logging, AGU Fall meeting, San Francisco
- 2003 Ameriflux, Boulder, CO: “Flux tower studies in boreal and tropical forests and a freshwater marsh”
- 2002 AGU Fall meeting, San Francisco, “Micrometeorology of a Tropical Rainforest Before and After Selective Logging”
- 2001 IGBP Global Change Open Science, Amsterdam, Netherlands, “Measuring the Effect of Tropical Logging on Forest-Atmosphere Exchange”
- 2001 Measuring the Effect of Selective Logging on Forest-Atmosphere Exchange, AGU Fall meeting, San Francisco
- 2001 Measuring the Effect of Tropical Logging on Forest-Atmosphere Exchange, Global Change Open Science Conference, Amsterdam, Netherlands
- 2000 LBA-Ecology Open Meeting, Belem, Para, Brazil, “Measuring the effect of tropical logging on forest-atmosphere exchange”
- 1995 3rd International Symposium on Air-Water Gas Transfer, Heidelberg, Germany, “Profiles of wind speed and Reynold’s stress over the open ocean”

Collaborators

- 2011 MacIntyre, S., E. S. Saltzman, Brian Ward, Warren DeBruyn, Tom Bell, L.R. Hutyra, M. Keller, S.R. Saleska, S.C. Wofsy, A.M.S. Figueira, H.R. da Rocha, P.B. de Camargo, Ronald Souza, Luciano Pezzi, Otavio Acevedo
- 2010 MacIntyre, S., A. Jonsson, M. Jansson, J. Aberg, D. Turney, C. Marandino, E. Saltzman

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- 2009 C. Marandino, E. Saltzman, Fisher, J., Y. Malhi, A. de Araújo, D. Bonal, M. Gamo, M. Goulden, T. Hirano, A. Huete, H. Kondo, T. Kumagai, H. Loescher, W. De Bruyn, da Rocha, H.R., A.O. Manzi, O.M. Cabral, Juárez, R.I.N., A.M.S. Figueira
- 2008 Marandino C.A., W.J.De Bruyn, E.S. Saltzman, Figueira, A. M. e S., C. A. D de Sousa, M. C. Menton, A. R. Maia, H. R. da Rocha, M. L. Goulden, Baker, I. T., L. Prihodko, A. S. Denning, T.S. Hristov, J.B. Edson, C.A. Friehe
- 2007 Marandino C.A., W.J.De Bruyn, E.S. Saltzman, M.L. Goulden, H.R. da Rocha, M. Litvak, Bruno, R.D., H.R. da Rocha, H. Freitas
- 2006 Doughty, C.E., M.L. Goulden, H.R. da Rocha
- 2005 Marandino, C.A., W.J. De Bruyn, M.J. Prather, and E.S. Saltzman
- 2004 Goulden, M.L., M.C. Menton, H.R. da Rocha, and H.C. Freitas, Rocha, H.R., M.L. Goulden, Keller, M., A. Alencar, G.P. Asner
- 2003 Saleska, S.R., Matross, D.M., Goulden, M.L., Wofsy, S., Rocha, H.R., Camargo, P.B., Crill, P., Daube, B.C., Freitas, H.C., Hutya, L., Keller, M., Kirchhoff, V., Menton, M., Munger, J.W., Hammond Pyle, E., Rice, A.H., and Silva, H., Hristov, T.S., C.A. Friehe
- 2002 Litvak, M., S. Wofsy, and M. Goulden, Grachev, A., C.W. Fairall, J.E. Hare, J.B. Edson
- 2000 Hristov, TS, C.A. Friehe
- 1998 Hristov, T., C. Friehe
- 1997 C.A. Friehe, T.S. Hristov, J.B. Edson

Graduate and Postdoctoral Advisors

Carl Friehe, Department of Mechanical Engineering, UC Irvine (Ph.D. Advisor)

Michael Goulden, Department of Earth System Science, UC Irvine (Postdoctoral Advisor)

Postdoctoral Researchers

2009-present Matt Czikowsky, SUNY Albany

2011 Fabricio Cruz De Oliveira, University of Sao Paulo, Brazil, R/V Knorr N. Atlantic cruise

Graduate Students

2011-2012 Sebastian Landwehr, National University of Ireland Galway, 6 months

2011 Cristina Schultz, INPE – Brazilian Space Institute, R/V Knorr N. Atlantic cruise

2008 Marta Llopart, University of Sao Paulo, Brazil, June-Nov, 5 months

2006 Michela Figueira, CENA, Piracicaba, Sao Paulo, Brazil, 9 months

Undergraduate Students

2011 Chris Sager, Atmospheric and Environmental Sciences, SUNY Albany

2011 Brett Stacy, Humboldt State University, California, R/V Knorr N. Atlantic cruise

2011 Ryan Kennedy, Bristol Community College, MA, R/V Knorr N. Atlantic cruise

2010 Lori Cornell, Environmental Science and Geology, SUNY Albany

2009 Mark Ellinwod, Atmospheric and Environmental Sciences, SUNY Albany