

UNIVERSITY OF MIAMI
Curriculum Vitae
Rosenstiel School of Marine and Atmospheric Science
4600 Rickenbacker Causeway
Miami, Florida 33149

1. **Date:** May 2011

PERSONAL

2. **Name:** **Paquita Zuidema**
3. **Home Phone:** (786) 552 - 9795
4. **Office Phone:** (305) 421 - 4276
5. **Home Address:** 442 Navarre Avenue
Coral Gables, FL 33134
6. **Current Academic Rank:** Associate Professor
7. **Primary Department:** Meteorology and Physical Oceanography
8. **Secondary or Joint Appointments:** None
9. **Citizenship:** United States of America
10. **Visa Type:**

HIGHER EDUCATION

11. Institutional:

- Ph.D., Astrophysical, Planetary and Atmospheric Sciences, University of Colorado at Boulder 1999
- M.S., Atmospheric Sciences, University of Washington at Seattle 1993
- M.S., Physics, University of Washington at Seattle 1989
- M.S., Civil Engineering, Massachusetts Institute of Technology 1987
- B.S., Physics, University of Illinois at Champaign-Urbana 1983

12. **Non-institutional:** None

13. **Certification, licensure:** None

EXPERIENCE

14. Academic:

- Associate Professor, RSMAS. University of Miami. June, 2010 – present
- Coordinator of the Undergraduate Meteorology Program University of Miami June, 2010 – present
- *Assistant Professor*, RSMAS, University of Miami. 2005-2010
- *Research Scientist*, Cooperative Institute for Research in Environmental Studies, University of Colorado at Boulder. 2003-2004
- *National Research Council Postdoctoral Associate*, NOAA Environmental Technology Laboratory, Boulder. 2001-2003
- *Research Associate*, Dept. of Atmospheric Sciences, U. of Arizona at Tucson. 2000-2001
- *Research Assistant*, 1993-1999

Program in Atmospheric and Oceanic Sciences, U. of Colorado at Boulder

- *Research Assistant* 1989-1993
Atmospheric Sciences, U. of Washington at Seattle

15. Non-Academic: None

16. Military: None

PUBLICATIONS

17. Books & monographs published: None

18. Juried or refereed journal articles & exhibitions:

33. Morrison, H., P. Zuidema, A. S. Ackerman, A. Avramov, G. deBoer, J. Fan, A. Fridlind, T. Hashino, J. Harrington, Y. Luo, M. Ovchinnikov and B. Shipway, accepted (April, 2011): Intercomparison of cloud model simulations of Arctic mixed-phase boundary layer clouds observed during SHEBA/FIRE-ACE. *JAMES*.
32. Morrison, H., P. Zuidema, G. M. McFraquhar, A. Bansemer, and A. J. Heymsfield, accepted (April, 2011): Snow microphysical observations in shallow mixed-phase and deep frontal Arctic cloud systems. *Quart. J. Roy. Meteorol. Soc.*
31. Wood., R., C. S. Bretherton, D. Leon, A. D. Clarke, P. Zuidema, G. Allen and H. Coe, 2011: An aircraft case study of the spatial transition from closed to open mesoscale cellular convection over the Southeast Pacific. *Atmos. Chem. Phys.*, **11**, pp. 2341-2370. doi:10.5194/acp-11/2341-2011.
30. Brunke, M. A., S. de Szoeki, P. Zuidema and X. Zeng, 2010: A comparison of ship and satellite measurements of cloud properties with global climate model simulations in the southeast Pacific stratus deck. *Atmos. Chem. Phys.*, **10**, pp. 6527-6536.
29. Painemal, D., and P. Zuidema, 2010: Microphysical variability in Southeast Pacific stratocumulus clouds: Synoptic conditions and radiative response. *Atmos. Chem. Phys.*, **10**, pp. 6255-6269.
28. de Szoeki, S., C. Fairall, D. Wolfe, L. Bariteau, and P. Zuidema, 2010: Surface flux observations on the southeastern tropical Pacific Ocean and attribution of SST errors in coupled ocean-atmosphere models. *J. Climate.*, **23**, pp. 4152-4174.
27. Painemal, D., R. Garreaud, J. Rutllant, and P. Zuidema, 2010: Southeast Pacific stratus: High frequency variability and mesoscales structures over San Felix Island. *J. Appl. Meteor. Clim.*, **49**, pp. 463-477.
26. Lawson, P., and P. Zuidema, 2009: Aircraft microphysical and surface-based radar observations of summertime Arctic clouds. *J. Atmos. Sci.*, **66**, pp. 3505-3529.
25. Zuidema, P., D. Painemal, S. de Szoeki and C. Fairall, 2009: Stratocumulus cloud top estimates and their climatic implications. *J. Climate*, **22**, pp. 4652-4666.
24. Zhu, P., and P. Zuidema, 2009: On the use of the PDF scheme to parameterize sub-grid clouds. *Geophys. Res. Lett.*, **36**, L05807, doi: 10.1029/2008GL036817.

23. Zuidema, P., and B. Mapes, 2008: Cloud vertical structure observed from ship and space over the Bay of Bengal and the eastern tropical Pacific. *J. Meteor. Soc. Japan*, **86A**, pp. 205-218.
22. Zuidema, P., H. Xue and G. Feingold, 2008: Shortwave radiative impacts from aerosol effects on shallow marine cumuli. *J. Atmos. Sci.*, **65**, pp.1979-1990.
21. Zuidema, P., and R. Joyce, 2008: Water vapor, cloud liquid water paths, and rain rates over the northern high latitude open seas. *J. Geophys. Res.*, **113**, D05205, doi:10.1029/2007JD009040
20. Rauber, R., B. Stevens, H. Ochs III, C. Knight, B. Albrecht, A. Blyh, C. Fairall, J. Jensen, S. Lasher-Trapp, O. Mayol-Bracero, G. Vali, J. Anderson, B. Baker, A. Bandy, E. Burnet, J.-L. Brenguier, W. Brewer, P. Brown, P. Chuang, W. Cotton, L. Di Girolamo, B. Geerts, H. Gerber, S. Goke, L. Gomes, B. Heikes, J. Hudson, P. Kollias, R. Lawson, S. Krueger, D. Lenschow, L. Nuijens, D. O'Sullivan, R. Rilling, D. Roger, A. Siebesma, E. Snodgrass, J. Stith, D. Thornton, S. Tucker, C. Twohy, and P. Zuidema, 2007: Rain in Shallow Cumulus over the Ocean – the RICO campaign. *Bull. Am. Meteor. Soc.*, **88**, pp. 1912-1928.
Including: A Supplement to Rain in Shallow Cumulus over the Ocean. *Bull. Am. Meteor. Soc.*, **88**, pp. S12-S18.
19. Rauber, R., B. Stevens, Davison, S. Goke, Ol Mayol-Bracero, D. Rogers, P. Zuidema, H. Ochs III, C. Knight, J. Jensen, S. Bereznicki, S. Bordoni, H. Caro-Gautier, M. Colon-Robles, M. Deliz, S. Donaher, V. Ghate, E. Grzeszczak, C. Henry, A. Hertel, I. Jo, M. Kruk, J. Lowenstein, J. Malley, B. Medeiros, Y. Mendez-Lopez, S. Mishra, F. Morales-Garcia, L. Muijens, D. O'Donnell, D. Oriz-Montalvo, K. Rasmussen, E. Riepe, S. Scalia, E. Serpetzoglou, H. Shen, M. Siedsma, J. Small, E. Snodgrass, P. Trivej, and J. Zawislak, 2007: In the driver's seat – RICO and education. *Bull. Am. Meteor. Soc.*, **88**, pp. 1929-1937.
18. Genkova, I., G. Seiz, P. Zuidema, G. Zhao, and L. Di Girolamo, 2007: Cloud-top height comparisons from ASTER, MISR, and MODIS for trade-wind Cumuli. *Remote Sens. Env.*, **107**, 211-222.
17. Zuidema, P., C. Fairall, L. Hartten, D. Wolfe, and J. Hare, 2007: On air-sea interaction at the mouth of the Gulf of California. *J. Climate*. **20**, 1649-1661
16. Mapes, B., S. Tulich, J. Lin, and P. Zuidema, 2006: The mesoscale convection life cycle: building block or prototype for large-scale tropical waves ? *Dyn. Atmos. Oceans*, **42**, 3-29
15. Zuidema, P., B. Mapes, J. Lin, C. Fairall, and G. Wick, 2006: The interaction of clouds and dry air in the Eastern Tropical Pacific. *J. Climate*. **19**, 4531-4544
14. Zuidema, P., E. Westwater, C. Fairall and D. Hazen, 2005: Ship-based Liquid Water Path Estimates in Marine Stratus. *J. Geophys. Res.* **110**, doi: 10.1029/2005JD005833.
13. Morrison, H. J. Curry, M. Shupe, and P. Zuidema, 2005: A new double-moment microphysics parameterization for application in cloud and climate models. Part 2: Single-column modeling of arctic clouds. *J. Atmos. Sci.*, **62**, 1678-1693.
12. *Zuidema, P., B. Baker, Y. Han, J. Intrieri, J. Key, P. Lawson, S. Matrosov, M. Shupe, R. Stone, and T. Uttal, 2005: An Arctic Springtime Mixed-Phase Cloudy Boundary Layer observed during SHEBA. *J. Atmos. Sci.*, **62**, 160-176.

*Highlighted within the Conference Notebook of the Bulletin of the American Meteorological

Society, Sept. 2004.

11. Kollias, P. C. W. Fairall, P. Zuidema, J. Tomlinson, and G. Wick, 2004: Observations Of Marine Stratocumulus in SE Pacific during the PACS 2003 cruise. *Geophys. Res. Lett.*, **31**, doi: 10.1029/2004GL020751.
10. D. Raymond, S. Esbensen, C. Paulson, M. Gregg, C. Bretherton, W. Petersen, R. Cifelli, L. Shay, C. Ohlmann, and P. Zuidema, 2004: EPIC2001 and the Coupled Ocean-Atmosphere System of the Tropical East Pacific. *Bull. Amer. Met. Soc.* **85**, 1341-1354.
9. H. Morrison, J. Curry, M. Shupe, and P. Zuidema, 2005: A New Double-Moment Microphysics Parameterization for Application in Cloud and Climate Models. Part 2: Single-column Modeling of Arctic Clouds. *J. Atmos. Sci.*, **62**, 1678-1693.
8. P. Zuidema, R. Davies, and C. Moroney, 2003: On the Angular Radiance Closure of Tropical Cumulus Congestus Clouds observed by MISR. *J. Geophys. Res.*, **108**, doi: 10.1029/2003JD003412.
7. S. Matrosov, M. Shupe, A. Heymsfield, and P. Zuidema, 2003: Ice Cloud Optical Thickness and Extinction Estimates from Radar Measurements. *J. Appl. Meteor.*, **42**, 1584-1597.
6. P. Zuidema, 2003: Convective Clouds over the Bay of Bengal. *Mon. Wea. Rev.*, **131**, 780-798.
5. P. Webster, E. Bradley, C. Fairall, J. Godfrey, P. Hacker, R. Lukas, Y. Serra, R. Houze Jr., J. Jumman, D. Lawrence, C. Russell, M. Ryan, K. Sahami, and P. Zuidema, 2002: The Joint Air-Sea Monsoon Interaction Experiment JASMINE: Exploring Intraseasonal Variability in the South Asian Monsoon. *Bull. Amer. Met. Soc.* **83**, 1603-1630.
4. P. Zuidema and K. F. Evans, 1998: On the Validity of the Independent Pixel Approximation for Boundary Layer Clouds observed during ASTEX. *J. Geophys. Res.*, **103**, 6059-6074.
3. *P. Zuidema, 1998: On the 600-800 mb Minimum in Tropical Cloudiness observed during TOGA-COARE. *J. Atmos. Sci.*, **55**, 2220-2228.
*Selected for Peter Wagner Memorial Award 1999
2. B. Mapes and P. Zuidema, 1996: Radiative-Dynamical Consequences of Dry Tongues in the Tropical Troposphere. *J. Atmos. Sci.*, **53**, 620-628.
1. P. Zuidema and D. L. Hartmann, 1995: Satellite Determination of Stratus Cloud Microphysical Properties. *J. Clim.*, **8**, 1635-1657.

19. Other non-peer-reviewed publications:

- Zuidema, P., P. Chang, C. Roberto Mechoso, L. Terray, 2011: Coupled ocean-atmosphere-land processes in the tropical Atlantic. *VAMOS! Newsletter of the variability of the American Monsoon Systems panel.* **7**, pp. 4-6
- Zuidema, P., D. Leon, J. R. Snider, and R. Wood, 2010: One VOCALS perspective on precipitation closure. *CLIVAR Exchanges*, **53**, p. 18-19.

- De Szoeko, S., S. Yuter, P. Zuidema, C. Fairall, and W. Brewer, 2010: Ship-based observations of drizzling stratocumulus clouds from EPIC to VOCALS. *CLIVAR Exchanges*, **53**, p. 11-12.
- Twohy, C., A. Adams, P. Zuidema, D. Leon, R. George, and R. Wood, 2010: Factors controlling the microphysical and radiative properties of stratocumulus clouds in the southeast Pacific. *CLIVAR Exchanges*, **53**, p. 22-24.
- Cronin, M., S. Legg, and P. Zuidema, 2009: Best Practices for Process Studies, *Bull. Am. Meteor. Soc. Nowcast*, **90**, 917-918.
- Morrison, H., and P. Zuidema, 2008: GCSS/WMO Cloud modeling workshop Arctic mixed-phase stratus model intercomparison. (available through http://www.rap.ucar.edu/~gthompsn/workshop2008/case2_description.pdf)
- Wood, R. et al., 2007: VOCALS Program Summary, available through <http://www.eol.ucar.edu>

20. Other works: None

PROFESSIONAL

21. Funded Research Performed:

The radiative behavior and climate change impact Of arctic clouds by cloud phase and aerosol amount. (PI)	NASA	2004 2007	\$143,112
The angular radiance closure of tropical cumulus Congestus observed by the Multiangle Imaging Spectroradiometer (PI)	NASA	2004 2007	\$74,360
Eastern Pacific stratocumulus liquid water path, radiatively-derived cloud properties, drizzle, and boundary-layer dynamics (PI)	NOAA	2006 2009	\$209,357
Evaporation and microphysical structure within the North American Monsoon and eastern Pacific (PI)	NOAA	2007 2010	\$270,000
From fine-scale mixing to the mesoscale: assessing the climatic impact of trade-wind Cumulus with RICO data and modeling through a collaborative Proposal (PI)	NSF	2008 2011	\$ 351,711
Cloud remote sensing in support of VOCALS-REx: Linking cloud optical properties to aerosol and Precipitation variability (PI)	NSF	2008 2010	\$ 210,414

Low-latitude marine stratocumulus liquid water paths IOP (PI)	ARM	2008	\$5,000 (est.)
Towards quantifying aerosol indirect effects in Marine stratus clouds. (PI)	Provost Research Award in the Natural Sciences and Engineering,	2009,	\$10,500
Funding for a workshop on effective scientific writing led by Dr. Judith Swan (PI)	“You Choose” NSF SEEDS Advance	2009	\$5,000
Major Research Instrumentation: Acquisition of Instrumentation for an Integrated South Florida Cloud-Aerosol-Rain-Observing System (CAROB) (PI)	NSF	2009 2012	\$1,174,961

22. Editorial Responsibilities: None

23. Professional & Honorary Organizations:

International CLIVAR VAMOS Panel member	2010-
U.S. CLIVAR Process Studies and Model Improvement Panel member	2007–2008
U.S. CLIVAR Process Studies and Model Improvement Panel Co-chair	2008 - 2011
AMS Atmospheric Radiation Committee member	2006 –2010
AMS Atmospheric Radiation Committee Chair	2010 –
VOCALS Scientific Working Group	2008-

Member of American Meteorological Society, American Geophysical Union

24. Honors & Awards:

<i>visitor award to NCAR (MMM)</i>	2008
<i>Early Career Scientist Assembly visitor award to NCAR</i>	2007
<i>Faculty Fellow, NCAR (Ntnl. Center for Atmos. Sci.)</i>	2006
<i>National Research Council Postdoctoral Fellowship</i>	2001, 2002
<i>Peter B. Wagner Memorial Award for Women in Atmospheric Sciences,</i>	1999
<i>University of Colorado Fellowship</i>	1994-1995, 1996-1997
<i>Graduate Student Tuition Award,</i>	
<i>M.I.T. Technology and Policy Program.</i>	1983-1984

25. Post-Doctoral Fellowships:

<i>National Research Council postdoctoral fellowship</i>	2001-2003
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26. Other Professional Activities:

Cloud Scientist, VOCALS Regional Experiment	Oct-Dec, 2008
Chief Scientist, Rain in Cumulus over Ocean experiment	Jan. 2005
Chief Scientist, North American Monsoon Experiment	Jul. 2004
Scientist, Pan-American Climate Studies Stratus Cruise	Nov. 2003
Participant, AMSR-E Validation Field Campaign	Mar. 2003
Participant, Joint Air-Sea Monsoon Interaction Experiment	April-June 1999
Participant, Beaufort Arctic Storms Experiment	Sept. 1994
Participant, Tropical Ocean Global Atmosphere Coupled Ocean Atmosphere Response Experiment	Jan. 1993

Invited Lectures and Seminars:

Texas A&M Atmospheric Sciences Dept. Seminar, *October 2004: "Ship-based observations of cloud processes"*

University of Hawaii Dept. Seminar, *Feb. 2004: "The Lifecycle of an Arctic Mixed-Phase Cloud"*

NCAR EOL, *Aug. 2006: "Characteristics of temperature inversions in the south-eastern Pacific stratocumulus regions"*

NAME Science Working Group meeting, *Aug. 2006: "On air-sea interaction at the mouth of the Gulf of California"*

Univ. of Tokyo, Center for Climate System Research, Seminar, *Sept. 2006: "Cloud vertical structure observed over two tropical regions"*

High-resolution cloud modeling and observations workshop, Kusatsu, Japan, *Oct. 2006: "Cloud vertical structure observed over two tropical regions"*

VOCALS in-field educational talk, Arica, Chile, *early Nov. 2008: Cloud Remote Sensing during VOCALS-Rex: Selected U.S. Efforts.*

Atmospheric Radiation Measurement (ARM) Science Team Meeting, *March 30-April 2, 2009: How dry are the Subtropics? On the performance of the ARM MPI83 microwave radiometer in the Southeast Pacific.*

Keck Institute for Space Studies workshop on Climate feedbacks and Future Remote Sensing Observations, Pasadena, CA., *Sept. 2009: "Connecting dynamics to cloud physical processes"*

Conference Presentations:

Z. Li and P Zuidema, 2011: Mesoscale Organization along Cold Pool Boundaries in Trade-Wind Region observed during RICO. *Workshop on Coupled Ocean-Atmosphere-Land Processes in the Tropical Atlantic, Miami, FL, March 23-25, 2011* (poster)

- D. Leon, P Zuidema, A. Pazmany, J. Snider, Z. Wang 2011: The WCR, WCL, and GVR Integrated Dataset for VOCALS-REX. *Workshop on Coupled Ocean-Atmosphere-Land Processes in the Tropical Atlantic, Miami, FL, March 23-25, 2011* (poster)
- P. Zuidema, 2010: One VOCALS perspective on precipitation closure. *13th AMS Conf. on Cloud Physics, Portland, OR, July, 2010*. (oral)
- P. Zuidema, P. Lawson, and H. Morrison, 2010: On the microphysical representation of observed Arctic mixed-phase clouds. *ARCUS State of the Arctic meeting, Miami, FL, March 15-19, 2010* (contributed presentation).
- P. Zuidema, M. Cadet, D. Leon and A. Pazmany, 2009: New approaches to aircraft and ship-based LWP estimates. *AGU Fall meeting, San Francisco, CA, Dec. 14-18, 2009* (poster)
- P. Zuidema, 2009: Liquid water paths from the C-130 and Ronald Brown. *VOCALS meeting, Seattle, WA, July, 2009* (contributed presentation)
- P. Zuidema, D. Painemal, S. de Szoek, and C. Fairall, 2008: Southeast Pacific Stratocumulus Cloud Top Heights, *2008 Joint Assembly, Ft. Lauderdale, FL, May 26-30, 2008*, also *4th Pan-GCSS, Toulouse, France, June 2-6, 2008* (poster)
- E. Riley, P. Zuidema, and B. Mapes, 2008: Subtropical stratocumulus observed by CloudSat, *2008 Joint Assembly, Ft. Lauderdale, FL, May 26-30, 2008* (poster)
- E. Riley, P. Zuidema, B. Mapes and D. Painemal, 2008: Subtropical stratocumulus observed by CloudSat, *4th Pan-GCSS, Toulouse, France, June 2-6, 2008* (contributed presentation)
- P. Zuidema and P. Lawson, 2008: Snowing clouds observed during the summertime Arctic during SHEBA, *4th Pan-GCSS, Toulouse, France, June 2-6, 2008* (contributed presentation)
- S. de Szoek, P. Zuidema, and C. Fairall, 2008: Ship observations over the southeast tropical Pacific Ocean for climate model evaluation, *4th Pan-GCSS, Toulouse, France, June 2-6, 2008* (poster)
- P. Zuidema, H. Xue and G. Feingold, 2008: Shortwave radiative impacts from aerosol effects on shallow marine cumuli, *Internatl. Conf. on Clouds and Precipitation, Cancun, MX, July 7-11, 2008*. (oral presentation, the best and last version of this talk).
- D. Painemal and P. Zuidema, 2008: Synoptically-forced variability of droplet concentrations over the southeast Pacific Stratocumulus region, *Internatl. Conf. on Clouds and Precipitation, Cancun, MX, July 7-11, 2008*. (poster)
- Zuidema, P. and B. Mapes, 2008: Cloud vertical structure observed from ship and space over the Bay of Bengal and eastern tropical Pacific. *28th AMS Conf. on Hurricanes and Trop. Meteor., Orlando, FL, April 30-May 2, 2008* (poster)
- G. Feingold, G., K. Schmidt, H. Jiang, P. Zuidema, P. Pilewskie, A. Hill and H. Wang, 2008: Aerosol-cloud interactions and radiative forcing: modeling and observations. *18th ARM STM, Norfolk, Virginia, March 10-14, 2008*. (poster)
- Zuidema, P., and R. Joyce, 2007: Water vapor, cloud liquid water paths, and rain rates over the northern high latitudes open seas. *AGU Fall Meeting, San Francisco, CA, Dec. 10-14, 2007* (oral)
- Zuidema, P, H. Xue, and G. Feingold, 2007: Shortwave radiative impacts from aerosol effects on trade-wind cumuli. *Gordon Research Conf. on Radiation and Climate, July 29-Aug 3, 2007, Colby-Sawyer College, NH* (poster)
- Painemal, D., and P. Zuidema, 2007: Southeastern Pacific Stratocumulus: On the validation of satellite retrievals. *Gordon Research Conf. on Radiation and Climate, July 29-Aug 3, 2007, Colby-Sawyer College, NH* (poster)
- Zuidema, P, H. Xue, and G. Feingold, 2007: Shortwave radiative impacts from aerosol effects on trade-wind cumuli. *IUGG, July 2-12, 2007, Perugia Italy* (oral)

- Painemal, D., and P. Zuidema, 2007: How well do MODIS retrievals combined with the adiabatic assumption characterize the south-eastern Pacific stratocumulus ? *IUGG, July 2-12, 2007, Perugia Italy* (oral; presented by P. Zuidema)
- Zuidema, P, and R. Joyce, 2007: Water vapor and cloud liquid water paths over the northern high latitudes. *NCAR CCSM mtg, June 18-20, 2007, Breckenridge CO* (poster)
- Zuidema, P, and R. Joyce, 2007: Water vapor and cloud liquid water paths over the northern high latitudes. *9th AMS Conf. on Polar Meteor., St. John's, Newfoundland, Canada* (poster)
- Lawson, P., P. Zuidema, B. Baker, B. Pilson, Q. Mo 2007: In situ and remote observations of microphysical properties of mixed-phase clouds in the Arctic. *9th AMS Conf. on Polar Meteor., St. John's, Newfoundland, Canada* (oral)
- Zuidema, P, H. Xue, and G. Feingold, 2006: The radiative fluxes and susceptibility of LES-simulated trade-wind Cumulus. *Joint GCSS-RICO workshop, NASA/GISS, NY,NY, Sept. 18-21, 2006.* (oral)
- Zuidema, P, H. Xue, and G. Feingold, 2006: The radiative fluxes and susceptibility of LES-simulated trade-wind Cumulus. *12th AMS Conf. on Cloud Physics&Radiation, Madison WI, July 10-14, 2006.* (oral)
- Zuidema, P., B. Mapes, C. Fairall, J. Lin and G. Wick, 2006: The Interaction of Cloud and Dry Air in the Eastern Tropical Pacific. *27th AMS Conf. on Hurricanes & Trop. Meteorology, Monterey, CA, April 24-28, 2006.* (oral)

Conference Proceedings:

- P. Zuidema, C. Torrence, P. J. Webster, and J. A. Curry, 1994: Seasonal associations between Indian Ocean sea surface temperature and cloudiness. *Proceedings of the International Conf. on Monsoon Variability and Prediction.* WCRP-84 WMO/TD No. 619 Trieste, Italy, 9-13 May 1994, pp. 347-349
- P. Zuidema and K. F. Evans, 1999: An Evaluation of the Tilted Independent Pixel Approximation for Tropical fair-Weather Cumuli observed by Cloud Radar. *10th Conf. on Atmos. Radiation.* Madison, WI, 28 June – 2 July 1999.
- P. Zuidema and S. Matrosov, 2002: On integrating millimeter-radar-derived ice cloud properties into shortwave radiative transfer models. *11th Conf. on Atmos. Rad.,* Ogden, UT, June 3-7, 2002
- S. Frisch and P. Zuidema, 2003: On the vertical profile of stratus liquid water flux using millimeter cloud radar. *31st Conf. on Radar Meteor.,* Seattle, WA, Aug. 6-12, 2003.
- B. Mapes and P. Zuidema, 2007: A monsoon intraseasonal oscillation seen by CloudSat. *Proceedings of the Celebrating the Monsoon Conf.* Bangalore, India, July 24-28, 2007.
- D. Painemal and P. Zuidema, 2008: Cloud droplet number concentration variability over the Southeast Pacific Stratocumulus Region, *ICCP,* Cancun Mex. July 7-11, 2008

TEACHING

27. Teaching Awards Received: None

28. Teaching Specialization:

MPO531, Spring 2007, 2008, 2009 “Physical Meteorology” (graduate)
MPO551, Fall 2005, 2009, 2010 “Introduction to Atmospheric Sciences”
MSC409, Spring 2006, 2007, 2008, 2009, 2010, 2011 “Physical Meteorology” (undergraduate)
Contributor (1 class), spring 2006, 2007, 2008, 2009 MSC 118
MSC118, Spring, 2011 “Topics in Weather and Climate”

29. Thesis & Dissertation Advising:

M.S. Committee Member for T. Eserpetzoglou, V. Ghate, S. Donaher, E. Riley
Ph.D. Committee Member for V. Ghate, S. Donaher, X. Zheng
Primary advisor for D. Painemal (Ph.D.), Zhujun Li (Ph. D.)

SERVICE

30. University Committee: MPO Academic Committee 2007-
RSMAS Green Committee 2009-
RSMAS Undergraduate Advisory Committee 2011-

31. Community Activities:

UCAR Member Representative, for University of Miami, 2010-
Organizer, International Workshop on Coupled Ocean-Atmosphere-Land Processes in the
Tropical Atlantic, Miami, FL., March 23-25, 2011.
Organizer, Third VOCALS Science Meeting, Miami, FL, March 21-23, 2011.
Local Host, VAMOS and AIP CLIVAR Panel meetings, Miami, FL, March 25-26, 2011.
Co-convener, AGU Session, Fall meeting Dec. 2010.
Reviewer of journal articles for J. Geophys. Res., Geophys. Res. Lett., IEEE Remote Sensing,
GSRL, Mon. Wea. Rev., J. Appl. Meteor., J. Atmos. Sci., BAMS, Remote Sens. Env.,
Wea. & Forecasting, J. Climate, Tellus, J. Hydrometeorology, ADCP
Proposal reviewer for NASA, NSF, NOAA, Canadian National Institute of Science, Dutch
government funding agencies (De Minister van Verkeer en Waterstaat; NWO), UK NERC.,
Israel government funding agency.
Organizer, full-day workshop at RSMAS on scientific writing led by Dr. Judith Swan, Nov. 21,
2009
Co-convener, AGU Joint Assembly Special Session, Ft. Lauderdale, FL, 27-30 May, 2008.

Judge at high school and elementary school science fairs.
Mentor for the RICO teacher-at-sea.
Speaker at RSMAS “Women in Science” day 2005, 2006, 2007, 2008
Interviewed within Earth Gauge Connection (bi-monthly e-newsletter aimed at broadcast
meteorologists; <http://www.earthgauge.net>), March 24, 2009
Member, National Environmental Education Foundation Focus Group