

# Eric D. Maloney

## Curriculum Vitae

COLORADO STATE UNIVERSITY  
Department of Atmospheric Science

ERIC D. MALONEY  
Associate Professor

BIRTHDATE:  
November 3, 1972

Citizenship: U. S.

Current Position: Associate Professor  
Department of Atmospheric Science  
Colorado State University  
1371 Campus Delivery  
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### EDUCATION

B. S., Physics, University of Illinois, 1994

Ph.D., Atmospheric Sciences, University of Washington, 2000. Dissertation: Frictional convergence and the Madden-Julian oscillation. *Prof. Dennis L. Hartmann advisor.*

### ACADEMIC POSITIONS

Graduate Research Assistant, University of Washington, 1994-2000

Postdoctoral Scholar, NOAA Climate and Global Change Postdoctoral Fellowship. Affiliated with the NCAR ASP program. National Center for Atmospheric Research, *Sponsor: Dr. Jeffrey T. Kiehl*, 2000-2002

Assistant Professor, College of Oceanic and Atmospheric Sciences, Oregon State University, 2002-January 2008.

Associate Professor, Department of Atmospheric Science, Colorado State University, January 2008 - present.

### NON-ACADEMIC POSITIONS

Research Assistant, Argonne National Laboratory, Technology and Environmental Policy Division, 1991-1994.

### FIELDS OF SPECIALIZATION

Tropical Meteorology  
Intraseasonal Variability  
Climate Dynamics  
Air-Sea Interaction

## HONORS AND AWARDS

2006 COAS Patullo Award for Excellence in Teaching

## PROFESSIONAL ACTIVITIES

### Professional Organizations

American Geophysical Union, 2001-present.  
American Meteorological Society, 2002-present

### Conference Session Organizer/Chair

Session Chair, Intraseasonal Variability (15B), *25th Conference on Hurricanes and Tropical Meteorology*, April 29-May 3 2002, San Diego, California.  
Session Chair, Interannual Variability II (11B), *26th Conference on Hurricanes and Tropical Meteorology*, May 3-7 2004, Miami, Florida.  
Session Organizer/Chair, The Madden Julian oscillation, *2004 Western Pacific Geophysics Meeting*, August 16-20, 2004, Honolulu, Hawaii.  
Session Chair, Air-Sea Interaction III (6C), *27th Conference on Hurricanes and Tropical Meteorology*, April 23-28 2006, Monterey, California.

### Committees, Commissions, and Boards

U. S. CLIVAR Madden-Julian Oscillation Working Group, 2006-present.  
Max Eaton Student Paper Award Committee. *25th Conference on Hurricanes and Tropical Meteorology*, April 29-May 3 2002, San Diego, California

### Manuscript Review

Associate Editor, *Monthly Weather Review*, 2004.  
*Science, Nature, Annales Geophysicae, J. Atmos. Sci., J. Climate, Mon. Wea. Rev., Quart. J. Roy. Met. Soc., Geophys. Res. Letters, J. Geophys. Res., J. Meteor. Soc. Japan, J. Atmos. Oc. Tech, Dynamics of Oceans and Atm., J. Hydrometeorology* (Since 2002: 2002=6, 2003=8, 2004=14, 2005=18, 2006=9, 2007=13)

### Book Review

Chapter Reviewer of *The Asian Monsoon*, Editor: Bin Wang, 2004

### Proposal Review

National Science Foundation (Climate Dynamics, Large-Scale Dynamic Meteorology, Physical Oceanography), NASA (Office of Earth Science), DOE, CRDF (While at COAS: 2002=3, 2003=5, 2004=3, 2005=6, 2006=2, 2007=7)  
NASA Peer Review Panelist (NRA-03-OES-02, "Earth System Science Research using Data and Products from TERRA, AQUA and ACRIM Satellites"), July 14-15, 2003, Washington DC.

## PUBLICATIONS

### Peer Reviewed Papers

Fernau, M. E., E. D. Maloney, and G. T. Bates, 1996: The effects of regional climate change on space conditioning needs and the energy industry in the Great Lakes region. *Regional*

- impacts of global climate change: assessing change and response at the scales that matter.*, S. J. Ghan Ed., Battelle Press, Columbus, OH, 255-267.
- Maloney, E. D., and D. L. Hartmann, 1998: Frictional moisture convergence in a composite lifecycle of the Madden-Julian oscillation. *J. Climate*, **11**, 2387-2403.
- Maloney, E. D., and D. L. Hartmann, 2000: Modulation of hurricane activity in the Gulf of Mexico by the Madden-Julian oscillation. *Science*, **287**, 2002-2004.
- Maloney, E. D., and D. L. Hartmann, 2000: Modulation of eastern north Pacific hurricanes by the Madden-Julian oscillation. *J. Climate*, **13**, 1451-1460.
- Sobel, A. H., and E. D. Maloney, 2000: Effect of ENSO and ISO on Tropical Depressions. *Geophys. Res. Lett.*, **27**, 1739-1742.
- Maloney, E. D., 2000: Frictional convergence and the Madden-Julian oscillation. Ph.D. Dissertation, University of Washington, 138pp. [Available from UMI Dissertations Publishing, 300 N. Zeeb Rd., Ann Arbor, MI 48106.]
- Maloney, E. D., and D. L. Hartmann, 2001: The sensitivity of intraseasonal variability in the NCAR CCM3 to changes in convective parameterization. *J. Climate*, **14**, 2015-2034.
- Maloney, E. D., and D. L. Hartmann, 2001: The Madden-Julian oscillation, barotropic dynamics, and north Pacific tropical cyclone formation. Part I: Observations. *J. Atmos. Sci.*, **58**, 2545-2558.
- Hartmann, D. L., and E. D. Maloney, 2001: The Madden-Julian oscillation, barotropic dynamics, and north Pacific tropical cyclone formation. Part II: Stochastic barotropic modeling. *J. Atmos. Sci.*, **58**, 2559-2570.
- Maloney, E. D., and J. T. Kiehl, 2002: MJO-related SST variations over the tropical eastern Pacific during Northern Hemisphere summer. *J. Climate*, **15**, 675-689.
- Maloney, E. D., 2002: An intraseasonal oscillation composite lifecycle in the NCAR CCM3.6 with modified convection. *J. Climate*, **15**, 964-982.
- Maloney, E. D., and J. T. Kiehl, 2002: Intraseasonal eastern Pacific precipitation and SST variations in a GCM coupled to a slab ocean model. *J. Climate*, **15**, 2989-3007.
- Maloney, E. D., and M. J. Dickinson, 2003: The intraseasonal oscillation and the energetics of summertime tropical western north Pacific synoptic-scale disturbances. *J. Atmos. Sci.*, **60**, 2153-2168.
- Maloney, E. D., and S. K. Esbensen, 2003: The amplification of east Pacific Madden-Julian oscillation convection and wind anomalies during June-November. *J. Climate*, **16**, 3482-3497.
- Maloney, E. D., and A. H. Sobel, 2004: Surface fluxes and ocean coupling in the tropical intraseasonal oscillation. *J. Climate*, **17**, 4368-4386.
- Maloney, E. D., and S. K. Esbensen, 2005: A modeling study of summertime east Pacific wind-induced ocean-atmosphere exchange in the intraseasonal oscillation. *J. Climate*, **18**, 568-584.
- Gochis, D. J., and others, 2005: Future scientific directions: The water cycle across scales. *Bull Amer. Meteor. Soc.*, **86**, 1743-1746.
- Anderson, B. T., and E. D. Maloney, 2006: Interannual tropical Pacific sea-surface temperatures and their relation to preceding sub-tropical sea level pressures in the NCAR CCSM2.0. *Journal of Climate*, **19**, 998-1012.
- Maloney, E. D., and D. B. Chelton, 2006: An assessment of the SST Influence on surface wind stress in numerical weather prediction and climate models. *J. Climate*, **19**, 2743-2762.
- Zhang, C., M. Dong, H. H. Hendon, E. D. Maloney, A. Marshall, K. R. Sperber, and W. Wang,

- 2006: Simulations of the Madden-Julian oscillation in four pairs of coupled and uncoupled global models *Clim. Dyn.*, **27**, 573-592.
- Maloney, E. D., and S. K. Esbensen, 2007: Satellite and buoy observations of intraseasonal variability in the tropical northeast Pacific. *Mon. Wea. Rev.*, **135**, 3-19.
- Maloney, E. D., and A. H. Sobel, 2007: Idealized hot spot experiments in a general circulation model. *J. Climate*, **20**, 908-925.
- Maloney, E. D., D. B. Chelton, and S. K. Esbensen, 2008: Subseasonal SST variability in the tropical eastern north Pacific during boreal summer. *J. Climate*, in press.
- Maloney, E. D., and J. Shaman, 2008: Intraseasonal variability of the west African monsoon and Atlantic ITCZ. *J. Climate*, in press.
- Araligidad, N. M., and E. D. Maloney, 2008: Wind-driven latent heat flux and the intraseasonal oscillation. *Geophys. Res. Lett.*, in press.
- Shaman, J., S. K. Esbensen, and E. D. Maloney, 2007: The dynamics of the ENSO-Atlantic hurricane teleconnection: ENSO-related changes to the North African-Asian Jet affect Atlantic basin tropical cyclogenesis. *J. Climate*, submitted 11/07.

### **Abstracts/Conference Proceedings**

- Maloney, E. D., and D. L. Hartmann, 2000: Modulation of eastern Pacific and Gulf of Mexico hurricanes by the Madden-Julian oscillation. *Preprints, 24th Conference on Hurricanes and Tropical Meteorology*, May 29-June 2 2000, Ft. Lauderdale, Florida.
- Maloney, E. D., 2001: Assessing intraseasonal variability produced by several deep convection schemes in the NCAR CCM3.6. *Abstracts, American Geophysical Union 2001 Spring Meeting*. May 29-June 2 2001, Boston, Massachusetts.
- Maloney, E. D., 2001: MJO-related SST variations over the tropical eastern Pacific during Northern Hemisphere summer. *Abstracts, American Geophysical Union 2001 Spring Meeting*. May 29-June 2 2001, Boston, Massachusetts.
- Maloney, E. D., and J. T. Kiehl, 2002: Eastern Pacific intraseasonal precipitation and SST variations in a GCM coupled to a slab ocean model. *Preprints, 25th Conference on Hurricanes and Tropical Meteorology*, April 29-May 3 2002, San Diego, California.
- Maloney, E. D., 2002: Mechanisms that control intraseasonal variability over the Eastern Pacific. *Proceedings, Fifth NOAA Summer Institute on Climate and Global Change*, June 17-21 2002, Steamboat Springs, Colorado.
- Maloney, E. D., 2002: Modulation of tropical cyclones by the Madden-Julian oscillation. *Proceedings, Risk Prediction Initiative, Weather Extremes and Atmospheric Oscillations Workshop*, October 1-2 2002, Hamilton, Bermuda.
- Monges, A. C., Fu, R., and E. D. Maloney, 2002: Influence of the Madden-Julian oscillation on tropical South American precipitation during austral summer. *Eos Trans. AGU*, **83(47)**, Fall Meet. Suppl., Abstract H11A -0837, 2002.
- Maloney, E. D., and D. B. Chelton, 2003: Diagnosis of tropical west Pacific synoptic-scale disturbances using scatterometer winds. *Abstracts, Ocean Vector Winds Science Team Meeting*, January 14-16 2003, Oxnard, California.
- Maloney, E. D., and S. K. Esbensen, 2003: The amplification of east Pacific intraseasonal oscillation convection and wind anomalies during June-November. *Abstracts, CLIVAR EPIC2001/Pan American Workshop*, September 15-18, 2003, Boulder, Colorado.
- Maloney, E. D., and A. H. Sobel, 2004: The dependence of intraseasonal variability on mixed layer depth in an AGCM coupled to a slab ocean. *Preprints, AMS Annual Meeting, 15th*

- Symposium on Global Change and Climate Variations*, January 11-15, 2004, Seattle, Washington.
- Maloney, E. D., and A. H. Sobel, 2004: Ocean-atmosphere interaction and intraseasonal oscillations in the modified CAM2.0.1 coupled to slab oceans of varying depths. *Preprints, 26th Conference on Hurricanes and Tropical Meteorology*, May 3-7, 2004, Miami, Florida.
- Maloney, E. D., 2004: The influence of wind-induced atmosphere-ocean exchange on summertime east Pacific intraseasonal oscillations in the modified NCAR CAM2.0.1. *Preprints, 26th Conference on Hurricanes and Tropical Meteorology*, May 3-7, 2004, Miami, Florida.
- Maloney, E. D., 2004: A GCM Study of tropical eastern north Pacific wind-induced ocean-atmosphere exchange during intraseasonal oscillation events. *Abstracts, 1st International CLIVAR Science Conference*, June 21-25, Baltimore, MD.
- Maloney, E. D., and A. H. Sobel, 2004: Surface Fluxes and Ocean Coupling in the Tropical Intraseasonal Oscillation. *Abstracts, 2004 Western Pacific Geophysics Meeting*, August 16-20, 2004, Honolulu, Hawaii.
- Zhang, C., W. Forsee, M. Dong, H. Hendon, A. Marshall, E. Maloney, K. Sperber, and W. Wang, 2004: Simulations of the Madden-Julian oscillation by global models: Current status. *Abstracts, 2004 Western Pacific Geophysics Meeting*, August 16-20, 2004, Honolulu, Hawaii.
- Anderson, B. A., and E. D. Maloney, 2005: Interannual tropical Pacific sea-surface temperatures and preceding subtropical sea level pressure anomalies in the NCAR CCSM2.0. *Preprints, AMS Annual Meeting, 16th Conference on Climate Variability and Change*, January 9-13, 2005, San Diego, California.
- Maloney, E. D., and S. K. Esbensen, 2005: An observational study of east Pacific intraseasonal variability during boreal summer. *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract A53B-02
- Maloney, E. D., and S. K. Esbensen, 2006: Ocean-atmosphere interactions over the east Pacific warm pool associated with the boreal summer intraseasonal oscillation. *Abstracts, AMS Annual Meeting, 14th Conference on Interaction of the Sea and Atmosphere*, January 30-February 2, 2006, Atlanta, Georgia.
- Maloney, E. D., and A. H. Sobel, 2006: Idealized hot spot experiments with a general circulation model. *Abstracts, 27th Conference on Hurricanes and Tropical Meteorology*, April 23-28, 2006, Monterey, California.
- Maloney, E. D., and S. K. Esbensen, 2006: Buoy and satellite observations of boreal summer intraseasonal variability in the tropical northeast Pacific. *Abstracts, 27th Conference on Hurricanes and Tropical Meteorology*, April 23-28, 2006, Monterey, California.
- Maloney, E. D., and S. K. Esbensen, 2006: Boreal summer intraseasonal variability and air-sea interaction in the tropical northeast Pacific. *Abstracts, 1st CPPA PI's Meeting*, August 14-16, 2006, Tuscon, Arizona. Additional presentation: Critical areas for research: East Pacific warm pool convection.
- Zhang, C, M. Dong, S. Gualdi, H. H. Hendon, E. D. Maloney, A. Marshall, K. R. Sperber and W. Wang, 2007: Simulations of the Madden-Julian oscillation in four pairs of coupled and uncoupled global models. *Abstracts, 3rd WGNE Workshop on Systematic Errors in Climate and NWP Models*, February 12-16, 2007, San Francisco, California.
- Maloney, E. D., D. B. Chelton, and S. K. Esbensen, 2007: Subseasonal SST variability in the tropical eastern north Pacific during boreal summer, *Eos Trans. AGU*, 88(23), Jt. Assem. Suppl., Abstract A32B-01 (invited).

- Wijesekera, H. W., C. A. Paulson, and E. Maloney, 2007: The effect of oceanic eddies on marine stratocumulus in the southeast Pacific, *Eos Trans. AGU*, 88(23), Jt. Assem. Suppl., Abstract A32B-07.
- Maloney, E. D., and N. Araligidad, 2007: MJO Sensitivity to Wind-Induced Surface Flux and Rain Reevaporation. *Abstracts, IUGG2007 Joint Assembly*, Perguia, Italy, July 2-13.
- Maloney, E. D., D. B. Chelton, and S. K. Esbensen, 2007: Boreal summer intraseasonal SST variability in the tropical eastern north Pacific , *Abstracts, 15th Conference on Air-Sea Interaction*, August 19-23, 2007, Portland, Oregon.
- Paulson, C. A., H. M. Wijesekera, and E. D. Maloney, 2007: The effect of oceanic eddies on marine stratocumulus over the southeast Pacific , *Abstracts, 15th Conference on Air-Sea Interaction*, August 19-23, 2007, Portland, Oregon.

## **OTHER PROFESSIONAL SEMINARS/MEETINGS**

- Mathematical and Physical Tools for Climate Dynamics*, Les Houches, France, January 6-16, 1998. Presentation: Tropical convection and its effects on large-scale circulations.
- Fourth Annual CSM Workshop*, June 22-24 1999, Breckenridge, Colorado. Presentation (invited): The sensitivity of CCM3 intraseasonal variability to changes in convective scheme.
- University of Wisconsin-Madison, Department of Atmospheric and Oceanic Sciences, 03/01 (invited).
- NCAR CGD Seminar, 04/01
- Sixth Annual CCSM Workshop*, June 26-28, 2001, Breckenridge, Colorado.
- Oregon State University, College of Oceanic and Atmospheric Sciences, 08/01(invited)
- Georgia Tech University, Department of Earth and Atmospheric Sciences, 11/01 (invited).
- Purdue University, Department of Earth and Atmospheric Sciences, 01/02 (invited)
- Florida State University, Department of Meteorology, 01/02 (invited)
- CCSM Atmosphere Model Working Group Meeting*. April 3-4 2002, Boulder, Colorado.  
Presentation (invited): Eastern Pacific intraseasonal precipitation and SST variations in a GCM coupled to a slab ocean model.
- Oregon State University, COAS ATS Seminar, 12/02: The intraseasonal oscillation and summertime tropical west Pacific synoptic-scale disturbances.
- Oregon State University, COAS 10th Anniversary, 02/03: The role of weather disturbances in climate variability.
- CCSM Atmosphere Model and Climate Variability Joint Working Group Meeting*. March 6-7, 2003, Boulder, Colorado. Presentation: Results from experiments with enhanced gustiness.
- Tropical Biases Workshop*. May 28-30, 2003, GFDL/Princeton University, Princeton, New Jersey (invited).
- NASA/CLIVAR Subseasonal Workshop*, June 4-5, 2003, University of Maryland, College Park, Maryland. Presentation (invited): Tropical intraseasonal variability with the NCAR CAM.
- NCAR/UCAR ECSA Junior Faculty Forum*, June 18-20, 2003, National Center for Atmospheric Research, Boulder, CO (invited).
- Eighth Annual CCSM Workshop*, June 24-26, 2003, Breckenridge, Colorado. Poster: The sensitivity of intraseasonal variability in the NCAR CAM2.0.1 with RAS convection to slab ocean depth.

*Spring 2004 COAS Colloquium*, ATS presentation. Title: Living in the Greenhouse: Challenges in Climate Projection.

*Ninth Annual CCSM Workshop*, July 7-9, 2004, Santa Fe, NM. Poster: The Dependence of Intraseasonal Variability on Mixed Layer Depth in the CAM2.0.1 Coupled to a Slab Ocean. Also gave an invited 5-minute break-out session motivation on tropical variability in the NCAR model.

*CLIVAR/CMEP: IPCC AR4 Climate Model Simulations Analysis Workshop*, March 1-4, 2005, Honolulu, Hawaii. Presentation: SST Influence on Surface Wind Stress in Coupled Climate Models (with Dudley Chelton and Michael Schlax).

*NOAA Climate and Global Change 100th Postdoctoral Fellowship Celebration*. April 20-21, 2005, Silver Spring, Maryland.

*Workshop on the Application of EPIC2001 Data for Improving and Testing Coupled Atmosphere-Ocean Models*. May 11-13, 2005, Seattle, WA. Presentation: Flux-driven intraseasonal convection variations over the east Pacific during EPIC2001 and beyond

*Office of Naval Research, Progress Review, Northwest Region*. June 28-30, 2005, Corvallis, OR. Presentation: Modulation of Tropical Cyclones by the Slowly-Evolving Atmosphere Flow: Implications for Subseasonal Prediction.

*Tenth Annual CCSM Workshop*, June 21-23, 2005, Breckenridge, CO. Poster: A model-observation comparison of intraseasonal wind-evaporation feedback during EPIC2001 and beyond

University of Washington, Department of Atmospheric Sciences, 08/05 (invited)

COAS ATS Seminar, 12/05, Title: East Pacific intraseasonal variability.

*CCSM Atmosphere Model Working Group Meeting*. March 20-22, 2006, Boulder, Colorado. Presentation: Implementation of RAS in NCAR CAM3: Preliminary Results.

TIIMES/ESSL THORPEX Retreat at NCAR on the Weather-Climate Interface, July 10-14, 2006, Boulder Colorado (invited). Presentation: Disparate abilities of climate models to simulate the MJO.

*CLIVAR MJO Working Group Meeting*, July 25-26, 2006, Breckenridge, Colorado.

Colorado State University, Department of Atmospheric Science, 04/07, invited.

*CLIVAR MJO Working Group Meeting*, November 5-7, 2007, Irvine, California. Talk: MJO simulation diagnostics: application of diagnostics to models, Part II. Poster (with Adam Sobel and Gilles Bellon): Surface fluxes and intraseasonal variability.

*CMMAP team meeting*, UCLA, Los Angeles, CA, January 15-17, 2008.

## TEACHING AND ADVISING

### M.S. Completed

Nilesh Araligheid, M.S., 08/02/2007, Oregon State University. Title: Buoy and satellite observation of wind induced surface heat exchange in the intraseasonal oscillation over west Pacific and Indian Ocean

### Graduate Students

Carol Brands, M.S., co-advisor with Eric Skillingstad, Winter 2004

Paula White, M.S. (2004-present)

Nilesh Araligheid, M.S. (2004-2007)

Walter Hannah, M.S., 2007-present (attending Colorado State).

### **Other Students**

Paula White, ATS 501, collaborated on independent study, Summer 2004.  
Kyle Hatcher, Summer 2004, Modeling project with the NCAR CAM3.  
Therese Bagnell, Spring 2006, NAMSS Student who did an independent study project with me on intraseasonal variability of Atlantic hurricanes.  
Jenny Rolling: CIOSS REU program co-mentor with Dudley Chelton, Summer 2007.

### **Student Thesis Committee**

Larry O'Neill, Ph.D., Physical Oceanography, 2002-2007  
Particia Medeiros, Ph.D., Environmental Sciences (GSR) 2003-2006  
Heather Benway, Ph.D., MG&G, 2003-2005  
Scott T. Walter, M.S., Dept of Forest Science (GSR), 2003  
Matthew Price, Ph.D., Science Education (GSR), 2004-present  
Jessica Halofsky, PhD., Forest Science (GSR), 2004-2007.  
Faron Anslow, PhD, Geosciences, 2005-present.  
Kevin Knutson, M.S., Forest Science (GSR), 2005-present.  
RaeSeol Park, Ph.D., Atmospheric Sciences, 2005-present.  
Craig Smith, Ph.D., Atmospheric Sciences, 2006-present.  
Mark Matheson, Ph.D., Atmospheric Sciences, 2006.  
Andrea Schuetz, M.S., Atmospheric Sciences, 2007.  
Chris Hayes, M.S., Atmospheric Sciences, 2007.  
Matthew Masarik, Ph.D., Colorado State University, Atmospheric Sciences, 2008-present.  
Nicholas Parazoo, Ph.D., Colorado State University, Atmospheric Sciences, 2008-present.

### **Courses Taught/Organized**

ATS 615, Large-Scale Interactions of the Ocean and Atmosphere, Oregon State University, Spring 2007.  
ATS 630, Climate Dynamics, Oregon State University, Spring 2004, 2006, and Fall 2007.  
ATS 210, Introduction to the Atmospheric Sciences, Oregon State University, Fall 2004.  
ATS 520, Guest Lecturer, 09/27/06.  
ATS 407/507/607 Seminar Coordinator, Fall 2004, Fall 2005, Fall 2006.  
ATS 605, Led graduate student Paula White in a reading and conference course, Spring 2005.  
ATS 320, Man's Impact on Climate, Oregon State University, Guest Lecturer, (10/24/05, 10/26/05).  
ATOC 7500-03, The Earth Climate System, University of Colorado-Boulder (with Peter Webster), Fall 2001.  
ATMOS 321, Physical Climatology, University of Washington (in tandem with Dennis Hartmann), Winter 2000.  
ATMOS 552, Objective Analysis, University of Washington (substituted for Dennis Hartmann), Fall 1999.  
ATMOS 101, Introduction to Meteorology, University of Washington (teaching assistant), Spring 1995.

### **Other Educational Experience**

Lead Teaching Assistant, 1996-97, Department of Atmospheric Sciences, University of

Washington. Responsibilities included mentoring of atmospheric sciences teaching assistants, maintenance of educational resources, and curriculum development.

## RESEARCH

### Funded Proposals

- “Understanding Intraseasonal Convection and Large-Scale Circulation Variations in Observations and Climate Models”, NSF, 08/03-07/07, \$329,081 (PI).
- “An Investigation of SST Influence on Surface Wind Stress in Climate Models”, NSF, 09/04-08/05, \$25,316, (co-PI with Dudley Chelton).
- “East Pacific Intraseasonal Oscillations and Air-Sea Interaction during Northern Hemisphere Summer”, NOAA Climate and Global Change Program, 01/05-12/07, \$260,153 (PI, with Steve Esbensen).
- “Intraseasonal Variability of the West African Monsoon”, NSF, 01/06-01/09, \$155,599 (PI).
- “Tropical Intraseasonal Variability in Models and Observations”, NSF, 10/06-09/09, \$361,258 (PI).

## COLLEGE ACTIVITIES

- Outreach and Extension Committee 2002-2003
- Themes in Atmosphere/Earth/Ocean Discussion Group 2003
- ATS Hiring Subcommittee 2003-present
- Paleoclimate/paleoceanography faculty search committee 2003
- 2003 OSU Commencement, COAS representative
- Promotion and Tenure Committee 2003-2004
- Faculty Advisory Committee (alternate) 2003-2004
- Byrne Lecture Committee 2002-2007
- Publications/Outreach Committee 2003-2005
- Atmosphere-ocean interaction faculty search committee 2004-2005.
- FHCC2 Atmospheric Sciences Representative, 2004-2006
- Graduate Admissions Representative (ATS, 2005)
- Faculty Advisory Committee (2005-2006)
- COAS Computer Committee (2005-2006)
- Disciplinary overview talk to MRM students (Fall 2005)
- Disciplinary overview talk to incoming COAS students (Fall 2006)
- Disciplinary development “themes” talk at COAS retreat (Fall 2006)
- Dean’s Advisory Committee (2006-present)
- COAS Climate Website “Subcommittee” (2006-present)
- Disciplinary overview talk to incoming COAS students (Fall 2007)

## PUBLIC SERVICE ACTIVITIES

### Outreach Activities

- Outreach, 1996-2000, Shoreline, WA elementary schools. Taught basic weather.
- National Public Radio Interview on *Morning Edition* with Bob Edwards, March 21, 2000, “Predicting hurricanes?” <http://www.npr.org/programs/morning/> (click on archives)
- Salmon Bowl Volunteer, Oregon State University, February 20, 2003.
- Interview, by 5th Grader Vesla Lee on the topic of convection. May 12, 2003.

DaVinci Days Volunteer, COAS booth, July 19, 2003.

Ocean Sciences and Math Instructor Institute, Interview by a Participating Teacher, COAS, September 2004

Interview with Jeff Novich, as part of preproduction information search for a *Discovery Channel* special on Earth Science processes across scales. May 18, 2005.

Ocean Sciences and Math Instructor Institute, Interview by a Participating Teacher, COAS, November 2005. Teacher: Donna Ball.

Salmon Bowl Volunteer, Oregon State University, March 4, 2006.

OSU Academy for Lifelong Learning, May 4, 11, 18, 2006. Organizer of a 3-class short course on climate change.

Grades 8-12 Teacher Workshop on Climate Change, September 23-24, 2006. Oregon State University. Participating Scientist. Presentation: The Scientific Basis for Anthropogenic Climate Change and Climate Modeling.

OSU Barometer Interview, with Greg Ekberg, regarding Bob Duncan's *Science* article, 5/01/07.

CIOSS REU Brownbag Lunch presentation: "The Scientific Basis for Anthropogenic Climate Change" 07/31/07.

Pacific Northwest Chapter of the International Society of Arboriculture, 2007 Annual Conference, Corvallis Oregon, September 16-19. Keynote presentation: "Climate Change and Potential Impacts on the Pacific Northwest."