Curriculum Vitae

Paul Edward Roundy

Personal Information

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Married, one son, two daughters

Education

PhD, The Pennsylvania State University, University Park, Pennsylvania 16802
Department of Meteorology. August 2003. Dissertation title: *Analysis of the Climatology and Interactions of Waves in the Equatorial Region*

Bachelor of Science, May 1999, Physics, minor Mathematics, with university honors
Utah State University, Logan, Utah 84321

Professional Experience

Assistant Professor, University at Albany, State University of New York

Research Associate, Cooperative Institute for Research in Environmental Sciences (CIRES), University of Colorado Boulder, NOAA Aeronomy and Earth System Research Laboratory, Physical Sciences Division (October 2003-July 2006)

Analyze station, buoy, reanalysis, model, and satellite data to study interactions between oceanic and atmospheric waves on intraseasonal and interannual timescales.

The Pennsylvania State University, University Park, PA, June 1999-September 2003

Research Assistant and NASA Pennsylvania SpaceGrant fellow (2001-September 2003):

Research on thesis project. Emphasized characteristics of intraseasonal convection and statistical methods for its prediction through analysis of outgoing longwave radiation and satellite derived precipitable water data.

Research and Teaching Assistant, Fall 2000

Thesis research, and teaching responsibilities in an undergraduate atmospheric dynamics course for meteorology majors.

American Meteorological Society (AMS)/Industry graduate fellowship, Fall 1999-Spring 2000

Research Assistant Summer 1999 and Summer 2000

Research Exchange with Max Planck Institute for Meteorology, Hamburg Germany, 2002 (two visits)

Analyzed data produced by the ECHAM3 GCM to compare the equatorial waves in the model with those seen in the atmosphere.

AMS/UCAR Summer Policy Colloquium

A 10-day course in atmospheric policy in Washington D.C. (funded by the AMS)

Utah State University, Logan, UT 1993-1994, 1996-1999

Teaching Assistant Spring 1997, undergraduate introductory meteorology course

Research Assistant for Utah Climate Center, Summer 1998-Spring 1999

Developed temperature dependent statistical crop-growth models for over 100 plant species for use in a public outreach program.

Research Assistant, Utah Water Research Laboratory, August 1997-June 1998

Applied artificial neural networks and nonlinear analysis techniques to forecasting streamflow in the western United States.

Professional Service

Reviewed articles for the Journal of the Atmospheric Sciences, the Journal of Climate, Monthly Weather Review, The Journal of Geophysical Research-Atmospheres, Climate Dynamics, and the Quarterly Journal of the Royal Meteorological Society.

Associate editor for Monthly Weather Review

List of Articles

Roundy P. E., and W. M. Frank, 2004: A climatology of waves in the equatorial region. *J. Atmos. Sci.*, **61**, 2105-2132.

Roundy, P.E., and W.M. Frank, 2004b: Effects of low-frequency wave interactions on intraseasonal oscillations. *J. Atmos. Sci.*, **61**, 3025-3040.

Roundy, P.E., and W.M. Frank, 2004c: Applications of a multiple linear regression model to the analysis of relationships between eastward-and westward-moving intraseasonal modes. *J. Atmos. Sci.*, **61**, 3041-3048.

Roundy P. E., and G. N. Kiladis, 2006: Observed relationships between oceanic Kelvin waves and atmospheric forcing. *J. Climate*, in press.

Frank, W. M., and P. E. Roundy, 2006: The relationship between tropical waves and tropical cyclogenesis. *Mon. Wea. Rev.*, in press.

Submitted Articles:

Roundy, P. E., and G. N. Kiladis 2006: Analysis of a reconstructed Kelvin wave dynamic height dataset for the period 1974-2005. Submitted to *J. Climate*, July 2006.

Shinoda, T., P. E. Roundy, and G. N. Kiladis, 2006: Variability of intraseasonal Kelvin waves in the equatorial Pacific Ocean. Submitted to J. Phys. Oceanogr., July 2006.

Roundy, P. E., and G. N. Kiladis, 2006: Can the MJO drive ENSO? *J. Climate*.

Conferences Attended (references sent upon request)

AMS 15th Conference on Atmospheric and Oceanic Fluid Dynamics

AMS 26th Conference on Hurricanes and Tropical Meteorology

AMS 10th conference on Satellite Meteorology and Oceanography

AMS 13th Conference on Interactions of the Sea and Atmosphere

AMS 25th Conference on Hurricanes and Tropical Meteorology

AMS 24th Conference on Hurricanes and Tropical Meteorology

Invited Seminars

NCAR/IMAGe Theme of the Year, Interactions between the Madden-Julian Oscillation and equatorial Rossby waves, Boulder, Colorado, October 2005.

NCAR IMAGe Theme of the Year: The role of tropical intraseasonal oscillations in the El Niño/Southern Oscillation, Boulder, Colorado, March 3, 2006.