
Curriculum Vita

Christina L. Holland

Biographical Information

Institute for Geophysics
University of Texas
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Education

2003 Ph.D., University of South Florida, Marine Science
1996 M.S., University of Hawaii, Physical Oceanography
1993 B.S. (High Honors) Eckerd College, Physics & Mathematics

Professional Experience

2004 – Postdoctoral Research Fellow, University of Texas with Rob Scott and Charles Jackson
2003 – 2004 Postdoctoral Research Assistant, University of South Florida with Gary Mitchum
2003 – 2004 GK-12 OCEANS Fellow for marine science education,
University of South Florida and Frontier Elementary School
1996 – 2003 Research Assistant, University of South Florida with Gary Mitchum
1997 – 1999 Instructor, Oceanography Camp for Girls at the University of South Florida
1998 Teaching Assistant, Introduction to Physical Oceanography, with Gary Mitchum
at the University of South Florida
1993 – 1996 Research Assistant, University of Hawaii with Gary Mitchum
1992 – 1993 Teaching Assistant, Fundamental Physics I & II, with Laurie Kovalenko at
Eckerd College
1990 – 1993 Research Assistant, Eckerd College with Sarah Kruse
1990 – 1991 Departmental Mathematics Tutor, Eckerd College

Honors and Awards

NSF GK-12 OCEANS Fellowship 2003
Gulf Oceanographic Charitable Trust Fellowship, 2001 - 2002
NASA Earth System Science Fellowship, 1998 - 2001.
University of South Florida University Graduate Fellowship, 1996 - 1998
Eckerd College Natural Sciences Collegium Award, 1993
Ford Foundation Scholars Program, 1991 - 1993
Barry Goldwater Scholarship, 1991 - 1993

Publications

Refereed Publications

2005 Holland, C., and G. T. Michum, Interannual Temperature Variability in the Tropical Pacific and Lagrangian Heat Transport Pathways. *J. Geophys. Res.*, 110, doi:10.1029/2004JC002466.

2003 Holland, C., and G. T. Michum, Interannual Volume Variability in the Tropical Pacific. *J. Geophys. Res.*, 108, doi:10.1029/2003JC001835.

2001 Holland, C., and G.T. Mitchum, Propagation of Big Island eddies. *J. Geophys. Res.*, 106, 935-944.

Manuscripts Submitted or in Press

Propagating Decadal SST Signal Identified in Modern Proxy Records of the Tropical Pacific
Christina L. Holland, Rob Scott, Soon-Il An, and Fred Taylor, *Submitted to Climate Dyn.*, Oct., 2005.

Other Publications

1999 Holland, C. and R. Young, Beaches Under Assault: Storms and Sea-Level Rise, in *Interactive Teacher magazine*.

1998 Virmani, J. and C. Holland, The Oceans in Motion: El Niño and its Effects, in *Interactive Teacher magazine*.

Academic Activities

April 2005 Poster Presentation at Donald D. Harrington Fellows Program Symposium on Abrupt Climate Change, University of Texas, Austin.

Fall 2002 Seminar: Lagrangian Pathways of Heat Transport in the Pacific, for Marine Science, Physics, and Mathematics Departmental Seminar Series, Eckerd College.

Spring 1999 – 2001 Lecture: Accessing and using TOPEX/Poseidon Altimetry Data, for Remote Sensing class with Frank Muller-Karger, USF.

Fall 1997 Lecture: Coastal Oceanography, for Introduction to Physical Oceanography with Gary Mitchum, USF.

Fall 1997 Lecture: Equatorial Oceanography, for Introduction to Physical Oceanography with Gary Mitchum, USF.

Representation at Scientific Meetings

NSF-Sponsored Workshop on Paleoenvironmental Proxies. San Francisco, California, December 2005.

Fall AGU Meeting. San Francisco, California, December 2005.
Holland, C. L., C. Jackson, P. Chang,
Statistical Optimization of an Atmospheric GCM coupled to a Reduced Gravity Model of the Upper Tropics/Ocean.

CRCES Workshop on Decadal Climate Variability. Warrenton, Virginia, October 2005.
Holland, C. L., R. Scott,
Propagating Decadal Variability in the Pacific over the Past 100 Years.

AGU Chapman Conference on Tropical-Extratropical Climatic Teleconnections, A Long-Term Perspective. Honolulu, Hawaii, February 2005.
Holland, C. L., R. Scott, F. W. Taylor,
Propagating Decadal SST Signal Identified in Modern Proxy Records of the Tropical Pacific.

Fall AGU Meeting. San Francisco, California, December 2003.
Holland, C., B. Khoury, and T. Greely, *Oceanographers in the Fifth Grade.*

JASON-1 Science Working Team Meeting. France, Fall 2003.
Holland, C. and G. T. Mitchum,
Interannual Heat Content Variability and Lagrangian Pathways in the Tropical Pacific.

Fall AGU Meeting. San Francisco, California, December 2002.
Holland, C. and G. T. Mitchum,
Interannual Volume Changes and Heat Transport Pathways in the Tropical Pacific.

JASON-1/TOPEX/Poseidon Science Working Team Meeting. New Orleans, LA, October 2002.
Holland, C. and G. T. Mitchum,
Interannual Volume Changes and Heat Transport Pathways in the Tropical Pacific.

Physical Oceanography Dissertation Symposium I. Breckenridge, Colorado, June 2002.
Holland, C., *Interannual and Decadal Mass and Heat Pathways in the Tropical Pacific.*

Fall AGU Meeting. San Francisco, California, December 1997.
Mitchum, G. T. and C. L. Holland, *Sea Level from Tide Gauges.*

Fall AGU Meeting. San Francisco, California, December 1996.
Holland, C., *The Fate of Eddies Generated off the Big Island of Hawaii.*