

*Curriculum Vitae*

**Todd P. Mitchell**

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Atmosphere and Ocean  
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*RESEARCH INTERESTS*

Observational studies of ocean and atmospheric dynamics; how climate affects fish.

*EDUCATION*

- 1990: Ph. D. Department of Atmospheric Sciences, University of Washington, Seattle WA.  
Dissertation title: The Annual March of Convection, Sea Surface Temperature, and Surface Wind in the Tropics.
- 1980: B.S. Department of Atmospheric Sciences, Oregon State University, Corvallis OR.
- 1980: Summer Institute on Planets and Climate, Goddard Institute for Space Studies / National Aeronautics and Space Administration, New York NY.

*PROFESSIONAL EXPERIENCE*

- 1993–present: Research Meteorologist 3, Joint Institute for the Study of the Atmosphere and Ocean, University of Washington, Seattle WA.
- 1992: Visiting Scientist, Universities Space Research Association, Goddard Space Flight Center / National Aeronautics and Space Administration, Greenbelt MD.
- 1990–92: National Research Council Associate, Goddard Space Flight Center / National Aeronautics and Space Administration, Greenbelt MD.
- 1982–90: Research Assistant, University of Washington, Seattle WA.
- 1982: Meteorologist, Massachusetts Institute of Technology, Cambridge MA.

*PROFESSIONAL EXPERIENCE (continued)*

- 1982: Meteorologist, Atmospheric and Environmental Research, Cambridge MA.
- 1981: Physical Scientist, MA-COM Sigma Data, Goddard Institute for Space Studies / National Aeronautics and Space Administration, New York NY.
- 1978–79: Meteorologist, Bonneville Power Administration, Vancouver WA.

*PUBLICATIONS*

- 1981 Lacis, A., J. Hansen, P. Lee, T. Mitchell, and S. Lebedeff: Greenhouse effect of trace gases, 1970-1980. *Geophys. Res. Lett.*, **8**, 1035-1038.
- 1984 Wang, W. -C., G. Molnar, T. P. Mitchell, and P. H. Stone: Effects of dynamical heat fluxes on model climate sensitivity. *J. Geophys. Res.*, **89**, 4669-4771.
- 1985 Wright, P. B., T. P. Mitchell, and J. M. Wallace: Relationships between surface observations over the global oceans and the Southern Oscillation. *NOAA Data Report ERL PMEL-12*, 61pp.
- 1986 Mitchell, T. P., C. Deser, and J. M. Wallace: Data comparison of pressure fields from COADS and Fleet Numerical Weather Central. *NOAA Tech. Mem. ERL ESG-23*, 84-86.
- 1987 Lagos, P., T. P. Mitchell, and J. M. Wallace: Remote forcing of sea surface temperature in the El Niño region. *J. Geophys. Res.*, **92**, 14291-14296.
- 1988 Wright, P. B., J. M. Wallace, T. P. Mitchell, and C. Deser: Correlation structure of the El Niño / Southern Oscillation phenomena. *J. Climate*, **1**, 609-625.
- 1989 Wallace, J. M., T. P. Mitchell, and C. Deser: The influence of sea-surface temperature on surface wind in the eastern equatorial Pacific: seasonal and interannual variability. *J. Climate*, **2**, 1500-1506.
- 1991 Mitchell, T. P. and W. K. -M. Lau: Patterns of summertime precipitation and temperature variability over the contiguous United States. Fifth Conf. Climate Variations. *Am. Met. Soc.*, 257-260.

*PUBLICATIONS (continued)*

- 1992 Mitchell, T. P. and J. M. Wallace: On the annual cycle in equatorial convection and sea surface temperature. *J. Climate*, **5**, 1140-1156.
- 1996 Mitchell, T. P. and J. M. Wallace: ENSO seasonality: 1950–78 versus 1979–92. *J. Climate*, **9**, 3149-3161.
- 1997 Mitchell, T. P. and W. Blier: The variability of wintertime precipitation in the region of California. *J. Climate*, **10**, 2261-2276.
- 1998 J. M. Wallace, E. M. Rasmusson, T. P. Mitchell, V. E. Kousky, E. S. Sarachik, and H. von Storch: On the structure and evolution of ENSO-related climate variability in the tropical Pacific: lessons from TOGA. *J. Geophys. Res.*, **103**, 14241-14259.
- 2006 Schwing, F. B., N. A. Bond, S. J. Bograd, T. Mitchell, M. A. Alexander, and N. Mantua, 2006: Delayed coastal upwelling along the U.S. West Coast in 2005: A historical perspective. *Geophys. Res. Lett.*, **33**, L22S01, doi:10.1029/2006GL026911.

*CONSULTANT*

- 2000 National Academy of Science: Reconciling observations of global temperature change. National Academy Press, 86 pp.

*PLANNING DOCUMENTS*

- 1994 Empirical Studies Recommendations, Inter-American Institute for Global Change Research.
- 1994 Pan American Climate Studies: A Scientific Prospectus, 28 pp.
- 1998 Pan American Climate Studies: A Scientific Prospectus and Implementation Plan, 40 pp.
- 2000 U.S. CLIVAR Pan American Research: A Scientific Prospectus and Implementation Plan.

*INVITED SPEAKER*

United States – Japan El Niño Workshop, Seattle WA. (1990); 7<sup>th</sup> Session of the Joint IOC-WMO-CPPS Working Group on the Investigations of "El Niño," Cartagena Colombia (1992); Equatorial Pacific Ocean Climate Study Meeting on the Seasonal Cycle, Miami FL (1992); Inter-American Institute for Global Change Research Workshop on ENSO and Interannual Climate Variability, Lima Peru (1994); NOAA / Universities Consortium Spring Meeting, Princeton NJ (1994); Equatorial Pacific Ocean Climate Studies Meeting, Miami FL (1994); Inter-American Institute for Global Change Research, Initial Science Program Workshop, San Miguel de Allende Mexico (1996); Conference on the American Monsoons, Mexico City Mexico (1997); Workshop on the Cross-validation of Proxy Climate Data and the Instrumental Record, Seattle WA (1997); El Niño Southern Oscillation (ENSO) Biological Impact in Latin America: Basis for Regional Modeling, Lima Peru (1998); UW Program on Climate Change (2005)

*INVITED PARTICIPANT*

Workshop and Conference on the 1997-98 El Niño: Impacts and Potential Applications for Climate Forecasts in Pacific South America, Lima Peru (1997); Data Workshop for the Climate System Model, National Center for Atmospheric Research, Boulder CO (1998); National Academy of Science Workshop on Creating Climate Data Records from NOAA Operational Satellites (2003).

*PANEL PARTICIPATION*

- 1996 Inter-American Institute for Global Change Research, Initial Science Program, Sao Jose dos Campos Brazil.
- 1997 Inter-American Institute for Global Change Research, Initial Science Program Round III, Miami FL.
- 1999 National Oceanographic and Atmospheric Administration Pan American Climate Studies FY1999, Boulder CO.
- 1999 Inter-American Institute for Global Change Research, Program to Expand Scientific Capacity in the Americas, Tucson AZ.
- 2009 National Oceanographic and Atmospheric Administration Climate Variability and Predictability, Silver Spring, MD.

*NATIONAL COMMITTEES*

Pan American Climate Studies Data Management Committee (1997-2000); American Meteorological Society Committee on Climate Variations (1999-2000).

*ADVISORY BOARD*

Seasonal to Interannual Earth Science Information Partner (1998-2004).

*REFEREED PAPERS AND PROPOSALS FOR THE FOLLOWING PROFESSIONAL JOURNALS AND ORGANIZATIONS*

*J. Climate, Climate Dynamics, J. Geophysical Research, Geophysical Research Letters, Japan Meteorological Society, National Science Foundation, Inter-American Institute for Global Change Research, National Oceanographic and Atmospheric Administration.*

*PROFESSIONAL ORGANIZATION MEMBERSHIP*

American Meteorological Society, American Geophysical Union.