

VITA

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DATE AND PLACE OF BIRTH: April 1968, New York

EDUCATION:

B.Sc.: 1990, Applied and Engineering Physics, Cornell University, Ithaca, New York
M.Sc.: 1995, Astrophysical Planetary and Atmospheric Sci., University of Colorado, Boulder, Colorado
Ph.D.: 1997, Astrophysical Planetary and Atmospheric Sci., University of Colorado, Boulder, Colorado

PROFESSIONAL EXPERIENCE and EDITORSHIPS

University of Colorado: Boulder, Colorado	
Research Assistant	1992–1997
Goddard Institute for Space Studies, NASA: New York, New York	
Postdoctoral Research Associate	1997–1998
Climate Diagnostics Center, NOAA: Boulder, Colorado	
Research Associate	1998–1999
University of Colorado: Boulder, Colorado	
Research associate	1999–2004
National Center for Atmospheric Research: Boulder, CO	
Associate Scientist II	2004 – 2007
National Center for Atmospheric Research: Boulder, CO	
Project Scientist I	2007– present
Editor, Meteorology and Atmospheric Physics	2003– present

PROFESSIONAL SOCIETIES:

American Meteorological Society	1992- present
American Geophysical Union	2005- present

AWARDS:

NASA research grants	2007- present
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PROFESSIONAL ACTIVITIES:

Participation in numerous conferences and workshops.

International

Contributor (multiple chapters and volumes), Intergovernmental Panel on Climate Change (IPCC), *Scientific Assessment of Climate Change*, WMO/UNEP, 2007

Invited participation in workshops or conferences

Invited speaker Fall AGU meeting, “Union Session on Tropical Cyclones and Climate Change”, 11-15 December 2006, San Francisco.

Invited speaker Fall AGU meeting, “Dynamic and thermodynamic controls of the global water cycle in the 20th and 21st centuries”, 15-19 December 2008, San Francisco.

Reviewer of papers for:

International J. Climatology
J. Atmospheric Sciences
J. Climate
J. Geophysical Research
Monthly Weather Review

Quarterly J. Royal Meteorological Society
Theoretical and Applied
Climatology

Reviewer of proposals for:

National Science Foundation
NOAA

NASA

Public Service and Other Activities:

Seminar Coordinator: 2008 CGD Seminar Host and Coordinator

Participation on national radio programs:

Interview and commentary on global climate change and modeling NPR, 2002.

Nanjing Institute of Science and Technology

Summer Monsoon Workshop, July, 2007: The Asian Monsoon, Its Origins, and Interactions

University of Colorado Teaching experience:

ATOC 1060 Our Changing Environment: El Niño, Ozone & Climate, 1999-2001
ATOC 3600 Principles of Climate (in assistance to Prof. Webster, taught ~50% of classes) 2000-2001

PROFESSIONAL ACTIVITIES

Research grants and contracts

Title: Climate Change and Its Impact on the Ecosystem of the Arabian Sea.

Sponsor: NASA

Period: May 2007– May 2010

Amount: \$1,180,000

Capacity: Co-Investigator (P.I., Joaquim Goes)

BOOKS AND BOOK CHAPTERS

Webster, P. J., and J. Fasullo:, 2003: Monsoon: Dynamical Theory. Encyclopedia of Atmospheric Sciences. Eds. J. Holton and J. A. Curry. Academic Press, 1370-1385.

Webster, P. J., C. Clark, G. Chirikova, J. Fasullo, W. Han, J. Loschnigg, and K. Sahami, 2002: “The Monsoon as a self-regulating coupled ocean-atmosphere system.” Meteorology at the Millennium. Academic Press, 198-219.

LIST OF JOURNAL PUBLICATIONS

- Trenberth, K. E. and J. Fasullo, 2008: Changes in the flow of Energy through the Earth's Climate System, *Meteorologische Zeitschrift*, submitted.
- Trenberth, K. E. and J. Fasullo, 2008: Earth's Global Energy Budget. *Bull. Amer. Met. Soc.* in press.
- Trenberth, K. E., and J. Fasullo (2008), Energy budgets of Atlantic hurricanes and changes from 1970, *Geochem. Geophys. Geosyst.*, 9, Q09V08, doi:10.1029/2007GC001847.
- Trenberth, K. E. and J. T. Fasullo, 2008: An observational estimate of ocean energy divergence, *J. Phys. Ocn.* 38, 5, 984-999.
- Fasullo, J. T. and K. E. Trenberth, 2008: The annual cycle of the energy budget: Global mean and land-ocean exchanges, *J. Clim.*, 21, 10, 2297-2313.
- Fasullo, J. T. and K. E. Trenberth, 2008: The annual cycle of the energy budget: Meridional structures and poleward transports, *J. Clim.*, 21, 10, 2314-2326.
- Trenberth, K. E. L Smith, T. Qian, A. Dai, and J. Fasullo, 2007: Estimates of the global water budget and its annual cycle using observational and model data. *J. Hydrometeor.* 8, 758-769.
- Trenberth, K. E. , C. A. Davis, and J. T. Fasullo, 2007: The water and energy budget of hurricanes: Case studies of Ivan and Katrina. *J. Geo. Res.-Atmos.*, 112 (D23).
- Trenberth, K. E. and J. T. Fasullo, 2007: The water and energy budgets of hurricanes and implications for climate change. *J. Geo. Res.-Atmos.*, 112 (D23).
- Fasullo, J. T., 2006: Assessing tropical cyclone trends in the context of potential sampling biases. *Geo. Res. Lett.*, 33, L24808, doi:10.1029/2006GL027852.
- Fasullo, J. 2005: Atmospheric Hydrology of the Anomalous 2002 Indian Summer Monsoon, *Mon. Wea. Rev.*, 10, 2996-3014.
- Trenberth, K.E., J. Fasullo, and L. Smith, 2005: Trends and variability in Column-integrated atmospheric water vapor. *Clim. Dyn.*, 24, 741-758.
- Goes, J., P. G. Thoppil**, H.R. Gomes, J. Fasullo, 2005: Phytoplankton biomass enhancement in the Arabian Sea linked to Eurasian warming, *Science*, 308, 5721, 545-547.
- Fasullo, J., 2004a: A stratified diagnosis of the Indian monsoon-Eurasian snow cover relationship. *J. Clim.*, 17, 1110-1122.
- Fasullo, J. 2004b: Biennial characteristics of All India rainfall. *J. Clim.*, 17, 2972-2982.
- Fasullo, J. and P.J. Webster, 2003: A hydrological definition of Indian monsoon onset and withdrawal. *J. Clim.*, 16, 3200-3211.
- Sun, D.Z., J. Fasullo, T. Zhang, and A. Roubicek, 2003: On the radiative and dynamical feedbacks over the equatorial Pacific cold tongue. *J. Clim.*, 16, 2425-2432.

Fasullo, J. and P.J. Webster, 2002: Hydrological signatures relating the Asian summer monsoon and ENSO. *J Clim*, **15**, 3082-3095.

Fasullo, J. and D.Z. Sun, 2001: Radiative sensitivity to water vapor under all-sky conditions. *J Clim*, **14**, 2798-2807.

Fasullo, J. and P.J. Webster, 2000: Atmospheric and surface variations during westerly wind bursts in the tropical western Pacific. *Q J Roy Meteor Soc*, **126**, 899-924.

Fasullo, J. and P.J. Webster, 1999: Warm pool SST variability in relation to the surface energy balance. *J Clim*, **12**, 1292-1305.

PROCEEDINGS AND PREPRINTS:

- Fasullo, J., 1993: The Correlation Between Westerly Wind Bursts and Surface Heat Fluxes, 20th Conference on Hurricanes and Tropical Meteorology, p13, San Antonio, TX, 10-14 May.
- Fasullo, J., P. J. Webster, 1995: Aspects of Ocean - Atmosphere Interaction during Westerly Wind Bursts, Preprints from the 21st Conference on Hurricanes and Tropical Meteorology, p2.13, Miami, FL, 24-28 Apr.
- Fasullo, J., and P. J. Webster, 1995: Ocean-Atmosphere Energetics During Westerly Wind Bursts: the Development of a Conceptual Model, Proc. 20th Climate Diagnostics Workshop, p 41, Seattle, WA, 23-27 Oct., 1995. U.S. Dept. Commerce. Springfield, VA.
- Fasullo, J., and P. J. Webster, 1996: Planetary Scale Structures Associated with Strong Westerly Wind Bursts, 8th Conference on Air Sea Interaction and Conference on the Global Ocean-Atmosphere-Land System (GOALS), p J85, Atlanta, GA, 28 Jan – 2 Feb.
- Fasullo, J., and P. J. Webster, 1997: The Role of the Hydrologic Cycle in Intraseasonal Monsoon Variability, Eighth Symp. on Global Change Studies. Amer. Meteor. Soc., Long Beach CA. 2-7, p326.
- Fasullo, J. and P. J. Webster, 1999: The hydrologic cycle of the South Asian monsoon as portrayed by the ECMWF and NCEP/NCAR reanalyses, 2nd International Conference on Reanalysis Reading, UK. Aug. WCRP-109, WMO/TD-No 985.
- Fasullo, J. T. and P. J. Webster, 2000: Hydrologic cycle of the Indo-Asian monsoon: Part I, the wet season, 24th Conference on Hurricanes and Tropical Meteorology, Ft. Lauderdale, FL, 28 May – 1 June.
- Fasullo, J. T. and P. J. Webster, 2000: Hydrologic cycle of the Indo-Asian monsoon: Part II: Interannual Variability, 24th Conference on Hurricanes and Tropical Meteorology, Ft. Lauderdale, FL 28 May – 1 June.
- Fasullo, J. T. and P. J. Webster, 2001: Diagnosing low frequency hydrologic variability in the monsoon-ENSO teleconnection. 11th Conference on Interaction of the Sea and Atmosphere, American Meteorological Society, San Diego, CA, 13-17 May.
- Fasullo, J. T. and P. J. Webster, 2002: A hydrological definition of Indian monsoon onset and withdrawal. 25th Conference on Hurricanes and Tropical Meteorology, San Diego, CA, 29 April – 3 May.
- Fasullo, J. T., 2004: A Stratified Diagnosis of the Indian Monsoon- Eurasian Snow Cover Relationship, 15th Symposium on Global Change and Climate Variations, Seattle, WA, 12-16 Jan.
- Fasullo, J. T., 2004: Biennial Characteristics of Summertime All-India Rainfall, International Symposium on Tropical Weather and Climate, Guangzhou, China, 8-11 Nov.
- Fasullo, J. T., 2006: Assessing tropical cyclone trends in the context of potential sampling biases Fall Meeting of the American Geophysical Union, San Francisco, CA, 11-15 Dec.
- Fasullo, J. T., 2007: Diagnosing the Energy Budget from Multiple Datasets and Closure Constraints, COAA Meeting, Qingdao, China, 4-7 Jul.
- Fasullo, J. T., 2008: Confronting Models with the Observed Energy Budget, Workshop on East Asian, North Pacific, and North American climate variations, Changchun, China, 7-12 Sep.