

Tianyu Jiang

Mailing Address:

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EDUCATION:**Georgia Institute of Technology****Atlanta, GA**

Ph. D. Atmospheric Dynamics

Expected December 2012

Peking University**Beijing, China**

M. S. Meteorology

July 2008

B. S. Atmospheric Science

July 2005

EMPLOYMENT HISTORY:**Research Assistant Georgia Institute of Technology 2008- present**

Focus on coupling between atmospheric dynamical processes and variability in regional water cycle over the Pacific-North American sector

- Evaluated the impact of tropical intraseasonal oscillation on the Pacific storm track.
- Diagnosed the downstream impact of East Asian Cold surge on the variability of atmospheric river over North Pacific.
- Conducted local kinetic energy budget analysis for high- and low-frequency eddies.

Teaching Assistant Georgia Institute of Technology 2009-2012

Classes: 1. Introduction to Environmental Science (Undergraduate Honors)
2. Large-Scale Atmospheric Circulations

- Prepared and graded weekly labs, study guides, and exams
- Designed and developed a set of MATLAB toolkits for data analysis
- Prepared and graded assignments.

Research Assistant Peking University 2005-2008

Focus on stratosphere and troposphere interaction

- Simulation of the stratosphere response to the observed SST using the NASA GISS ModelE
- Analysis of potential influence of stratospheric circulation anomalies on tropospheric weather systems

PROGRAMMING SKILLS:

JAVA, C++, FORTRAN, MATLAB, GrADS

PROFESSIONAL MEMBERSHIPS:

American Geophysical Union (AGU)
American Meteorological Society (AMS)

PEER-REVIEWED PUBLICATIONS:

Jiang, T. and Y. Deng, 2011: Local Kinetic Energy Budget of High- and Low-Frequency Eddies: Winter Climatology, Subseasonal Variability and ENSO Impact. (In preparation)

Jiang, T. and Y. Deng, 2011: Downstream Modulation of North Pacific Atmospheric River Activity by East Asian Cold Surges. *Geophysical Research Letters*, 38, L20807, doi:10.1029/2011GL049462.

Deng, Y. and T. Jiang, 2011: Intraseasonal Modulation of the North Pacific Storm Track by Tropical Convection in Boreal Winter. *Journal of Climate*, 24, 1122-1137

Dong, X., B. Xi, A. Kennedy, Z. Feng, J. K. Entin, P. R. Houser, R. A. Schiffer, T. L'Ecuyer, W. S. Olson, K. Hsu, W. T. Liu, B. Lin, Y. Deng and T. Jiang, 2011: Investigation of the 2006 Drought and 2007 Flood Extremes at the Southern Great Plains Through an Integrative Analysis of Observations. *Journal of Geophysical Research*, 116, D03204, doi:10.1029/2010JD014776.

Hu, Y., and T. Jiang, 2009: GCM Simulations of Early Winter Warming in the Stratospheric Arctic. *Chinese J. Atmos. Sci.* 33 (5), 1058-1070

MEETINGS AND SEMINARS:

Jiang, T. and Y. Deng, 2011: Dynamical Downstream Modulation of the eastern North Pacific Atmospheric River Activity by East Asian Cold Surge, AGU Fall meeting, San Francisco, CA, December 2011

Koo, J.-H., Y. Wang, Y. Deng, T. Jiang, S. J. Oltmans, M. Shaw, O. Hermansen, and A. M. Fjaeraa, 2011: Climate variability and tropospheric ozone depletion in the Arctic spring, AGU Fall meeting, San Francisco, CA, December 2011

Jiang, T., and Y. Deng, 2010: Dynamical and hydrological fingerprints of the East Asian cold surge over the North Pacific, AGU fall meeting, San Francisco, CA, December 2010.

Deng, Y., and T. Jiang, 2010: Intraseasonal variability of the cool-season North American coastal cyclonic activity. 22nd conference on climate variability and change/ 90th AMS annual Meeting, Atlanta, GA, January 2010.

Deng, Y., and T. Jiang, 2009: Subseasonal variability of the North American coastal cyclonic activity: Implications for the winter precipitation and wind extremes. AGU Joint Assembly, Toronto, ON, Canada, May 2009.