

CURRICULUM VITAE

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Education

2004 Ph.D. Meteorology, University of Hawaii at Manoa, Honolulu.
2000 M.S. Meteorology, University of Hawaii at Manoa, Honolulu.
1997 B.S. Atmospheric Sciences, Nanjing University, Nanjing, China.

Professional Experience

08/2009-present Assistant Professor, Department of Atmospheric Sciences, University of Illinois at Urbana-Champaign
04/2008-2009/08 Research Assistant Professor
Department of Meteorology, Naval Postgraduate School
01/2005-03/2008 National Research Council postdoctoral fellow
Department of Meteorology, Naval Postgraduate School
08/1998-12/2004 Graduate Research Assistant
Department of Meteorology, University of Hawaii at Manoa

Referred Publications

Wang, Z., M. T. Montgomery, and T. J. Dunkerton, 2010: Genesis of Pre-hurricane Felix (2007). Part I: The Role of the Wave Critical Layer. J. Atmos. Sci., in press.

- Wang, Z., M. T. Montgomery, and T. J. Dunkerton, 2010: Genesis of Pre-hurricane Felix (2007). Part II: Warm core formation, precipitation evolution and predictability. *J. Atmos. Sci.*, in press.
- Wang, Z. and R. Elsberry, 2010: Modulation of the African Easterly Jet by a Mesoscale Convective System. *Atmos. Sci. Lett.*, in press.
- Dunkerton, T. J., Montgomery, M. T., and Wang, Z.: Tropical cyclogenesis in a tropical wave critical layer: easterly waves, *Atmos. Chem. Phys.*, 9, 5587-5646, 2009.
- Wang, Z., M. T. Montgomery, and T. J. Dunkerton, 2009: A dynamically-based method for forecasting tropical cyclogenesis location in the Atlantic sector using global model products, *Geophys. Res. Lett.*, 36, L03801, doi:10.1029/2008GL035586.
- Montgomery, M. T., Wang, Z., and Dunkerton, T. J.: Intermediate and high resolution numerical simulations of the transition of a tropical wave critical layer to a tropical storm, *Atmos. Chem. Phys. Discuss.*, 9, 26143-26197, 2009.
- Montgomery, M. T., Lussier III, L. L., Moore, R. W., and Wang, Z.: The genesis of Typhoon Nuri as observed during the Tropical Cyclone Structure 2008 (TCS-08) field experiment – Part 1: The role of the easterly wave critical layer, *Atmos. Chem. Phys. Discuss.*, 9, 19159-19203, 2009.
- Wang, Z., and C.P. Chang, 2008: Mechanism of the Asymmetric Monsoon Transition as Simulated in an AGCM. *J. Climate*, 21, 1829–1836.
- Wang, Z., C.-P. Chang, and B. Wang, 2007: Impacts of El Nino and La Nina on the U.S. Climate during Northern Summer. *J. Climate*, 20, 2165–2177
- Wang, Z., C.-P. Chang, B. Wang and F.-F. Jin, 2006: Papers of Note: Tropical-Extratropical teleconnection via a southerly conveyor. *Bulletin of the Amer. Meteor. Soc.*, Jan 2006, 18-19.
- Wang, Z., C.-P. Chang, B. Wang and F.-F. Jin, 2005: Teleconnections from Tropics to northern extratropics through a southerly conveyor. *J. Atmos. Sci.*, 62, 4057–4070.
- Chang, C.-P., Z. Wang, J. McBride, and C. H. Liu, 2005: Annual cycle of Southeast Asia-Maritime Continent rainfall and the asymmetric monsoon transition. *J. Climate*, 18, 287-301.
- Chang, C.-P., Z. Wang, J. Ju, and T. Li, 2004: On the relationship between western Maritime Continent monsoon rainfall and ENSO during northern winter. *J. Climate*, 17, 665-672.

Book Chapters

- Chang, C.-P., Z. Wang and H. Hendon, 2006: The Asian winter monsoon, Chapter 3 in *The Asian monsoon*. Ed. B. Wang. Praxis Publishing, 89-128.
- Von Storch, J., B. Wang, and Z. Wang, 2001: The ENSO spectrum: A result of deterministic chaos or stochastic forcing? In *Dynamics of Atmospheric General Circulation and Climate*, Ed. IAP/Academia, China Meteor. Press, pp. 579-600.

Conference Presentations

- Zhuo Wang (2009), "A dynamically-based method for forecasting tropical cyclogenesis location using global model products", MOCA-09 Assembly, Montreal, Canada
- Zhuo Wang (2009), "Genesis of Hurricane Felix (2007) and the role of wave critical layer", MOCA-09 Assembly, Montreal, Canada
- Zhuo Wang (2008), "Tropical Cyclogenesis in a Tropical Easterly Wave Critical Layer", Institute of Atmospheric Physics, Chinese Academy of Sciences, Beijing, China
- Zhuo Wang (2008), "Intermediate and high resolution simulations of the transition of a tropical wave critical layer to a tropical depression", AMS 28th Conference on Hurricanes and Tropical Meteorology, Orlando, FL.
- Zhuo Wang (2008), "Lagrangian boundaries and flow visualization of the genesis of Hurricane Felix (2007)", AMS 28th Conference on Hurricanes and Tropical Meteorology, Orlando, FL.
- Zhuo Wang (2008), "Wind-Terrain Interaction in South and Southeast Asian monsoon", AMS 28th Conference on Hurricanes and Tropical Meteorology, Orlando, FL.
- Zhuo Wang (2008), "Numerical simulation of the interaction of a mesoscale convective system with the African Easterly Jet", AMS 28th Conference on Hurricanes and Tropical Meteorology, Orlando, FL.
- Zhuo Wang (2006), "Annual Cycle of Southeast Asia-Maritime Continent Rainfall and the Asymmetric Seasonal Transition", Western Pacific Geophysics Meeting (WPGM), Beijing, China
- Zhuo Wang (2006), "Mesoscale Model Simulations of African Easterly Waves", Western Pacific Geophysics Meeting (WPGM), Beijing, China
- Zhuo Wang (2006), "Teleconnections from Tropics to Northern Extratropics Through a Southerly Conveyor", AMS 27th Conference on Hurricanes and Tropical Meteorology, Monterey, CA
- Zhuo Wang (2006), "Annual Cycle of Southeast Asia—Maritime Continent Rainfall and the Asymmetric Seasonal Transition", AMS 27th Conference on Hurricanes and Tropical Meteorology, Monterey, CA
- Zhuo Wang (2004), "Inter-decadal Modulation of the Impacts of ENSO on Rainfall." CRCES-IPRC Workshop on Decadal Climate Variability, The CRCES-IPRC Workshop on Decadal Climate Variability, Waikoloa, Hawaii.
- Zhuo Wang (2004), "On the Relationship Between Western Maritime Continent Monsoon Rainfall and ENSO During Northern Winter". The CRCES-IPRC Workshop on Decadal Climate Variability, Waikoloa, Hawaii.
- Zhuo Wang (2003), "The Great Plain Summer Rainfall Variability: Teleconnection and Its Mechanisms", U.S. CLIVAR Pan American Workshop, NCAR Mesa Lab, Boulder, CO.