Curriculum Vitae

Liping Zhang

The Cooperative Institute for Marine and Atmospheric Studies (CIMAS)
University of Miami
4600 Rickenbacker Causeway, Miami, FL 33149
Phone: 7864496936
Email: ocean.climate.ping@gmail.com

Education:

- Ph.D. Ocean University of China, Sep. 2008-Jun. 2012
- B.S. Ocean University of China, Sep. 2004-Jun. 2008

Research Experience:

- Research Associate. CIMAS, University of Miami 2011-present
- Graduate Research Associate. Ocean University of China 2008-2011

Research Interests:

- Climate change in response to anthropogenic forcing and natural variability
- Hydrological cycle and the associated salinity and water vapor variability
- Interaction between global climate change and regional climate change
- General circulation of the Ocean and Atmosphere

Publications:

Work in progress

Chunzai Wang, **Liping Zhang**, S.-K. Lee, C. R. Mechoso, L. Wu, 2013: A global perspective on climate model biases. *Nature climate Change*, second round review.

Liping Zhang, Chunzai Wang and S.-K. Lee, 2013: Potential role of Atlantic warm pool-induced freshwater forcing in the Atlantic meridional overturning circulation: Ocean-sea ice coupled model simulations. *Climate dynamics*, second round review.

Liping Zhang, Chunzai Wang, Zhenya Song and S.-K. Lee, 2013: Remote influence of the tropical North Atlantic bias on the southeastern Pacific bias. To be submitted to *GRL*.

Liping Zhang, Chunzai Wang, S.-K. Lee and Zhenya Song, 2013: North American precipitation response to anomalously large and small Atlantic warm pools. To be

submitted to *Journal of Climate*.

Liping Zhang, Chunzai Wang and Lixin Wu, 2013: The influence of Atlantic meridional overturning circulation on the North Pacific SST bias. To be submitted to *Climate Dynamics*.

PEER REVIEWED (published)

Liping Zhang, Chunzai Wang, 2013, Multidecadal North Atlantic Sea surface temperature and Atlantic Meridional overturning circulation variability in CMIP5 historical simulations. *Journal of Geophysical Research –oceans*. DOI: 10.1002/jgrc.20390

Chunzai Wang, **Liping Zhang**, Sang-Ki Lee, 2013: Response of Freshwater Flux and Sea Surface Salinity to Variability of the Atlantic Warm Pool. *J. Climate*, **26**, 1249–1267. doi: http://dx.doi.org/10.1175/JCLI-D-12-00284.1

Chunzai Wang, **Liping Zhang**, 2013: Multidecadal Ocean Temperature and Salinity Variability in the Tropical North Atlantic: Linking with the AMO, AMOC, and Subtropical Cell. *J. Climate*, **26**, 6137–6162. doi: http://dx.doi.org/10.1175/JCLI-D-12-00721.1

Liping Zhang, Lixin Wu, Bolan Gan, 2013: Modes and Mechanisms of Global Water Vapor Variability over the Twentieth Century. *J. Climate*, **26**, 5578–5593. doi: http://dx.doi.org/10.1175/JCLI-D-12-00585.1

Liping Zhang, and Chunzai Wang, 2012: Remote influences on freshwater flux variability in the Atlantic warm pool region. *Geophysical Research Letters*, 39, L19714, doi:10.1029/2012GL053530

Lixin Wu,Wenju Cai, **Liping Zhang**, Hisashi Nakamura, Axel Timmermann, Terry Joyce, Michael McPhaden, Michael Alexander, Bo Qiu, Martin Visbeck, Ping Chang, and Benjamin Giese, 2012: Enhanced warming over the global subtropical western boundary currents. *Nature Climate Change*, DOI: 10.1038/NCLIMATE1353.

Liping Zhang, Lixin Wu, 2012: Can Oceanic Freshwater Flux Amplify Global Warming?. *Journal of Climate*, 25, 3417–3430. doi: http://dx.doi.org/10.1175/JCLI-D-11-00172.1

Liping Zhang, Lixin Wu, and Jiaxu Zhang, 2011: Coupled Ocean-Atmosphere Responses to Recent Freshwater Flux Changes over the Kuroshio-Oyashio Extension Region. *Journal of Climate*, 24, 1507-1524.

Liping Zhang, Lixin Wu, and Jiaxu Zhang, 2011: Simulated Response to Recent

Freshwater Flux Change over the Gulf Stream and Its Extension: Coupled Ocean–Atmosphere Adjustment and Atlantic–Pacific Teleconnection. *Journal of Climate*, doi:10.1175/2011JCLI4020.1

Liping Zhang, Chunzai Wang and Lixin Wu, 2011: Low-Frequency Modulation of the Atlantic Warm Pool by the Atlantic Multidecadal Oscillation. *Climate Dynamics*, DOI: 10.1007/s00382-011-1257-0

Liping Zhang, Lixin Wu, and Lisan Yu, 2011: Oceanic Origin of Recent La-Nina Like Warming Trend in the Tropical Pacific, *Advance in Atmospheric Science*, 28, 1-9, AAS20100129.

Liping Zhang, Lixin Wu, Xiaopei Lin, and Dexing Wu, 2010: Modes and Mechanisms of Sea Surface Temperature Low-Frequency Variations over the Coastal China Seas. *Journal of Geophysical Research*, 115, doi:10.1029/2009JC006025

Lixin Wu, Yan Sun, Jiaxu Zhang, **Liping Zhang** and Shoshiro Minobe, 2010: Coupled Ocean–Atmosphere Response to Idealized Freshwater Forcing over the Western Tropical Pacific, *Journal of Climate*, 23, 1945-1954.

Chun Li, Lixin Wu, Qi Wang, Liwei Qu and **Liping Zhang**, 2009: An intimate coupling of ocean-atmospheric interaction over the extratropical North Atlantic and Pacific. *Climate dynamics*, doi: 10.1007/s00382-009-0529-4.

Field Experience:

- East China Sea and Northwestern Pacific, CTD and Lowered ADCP deployment and data analysis, 2009

Skills

- **Computer**
  Fortran Language; C Language; Matlab; Grads; Linux; Unix;Windows
- **Numerical models**
  Community Earth System Model (**CESM**); Fast Ocean and Atmosphere Model (**FOAM**); Hybrid Coordinate Ocean Model (**HYCOM)**
- **Others**
  Data Analysis; Statistics Methods; CTD&ADCP (Lowered, Mooring, Shipboard) Manipulation and analysis

Honors and Awards:

- Hou Chongben Scholarship in Ocean University of China (top 1%), 2010

- Outstanding Academic Scholarship for graduate student in Ocean University of China (top 1%), 2009
- Privilege to enter the Graduate Program at Ocean University of China, waived of the admission test, 2008
- Graduate student in National Science basic scientific research and personnel training base (Oceanography), (fellowship) 2008.
- Song Qingling scholarship, 2006
- Outstanding undergraduate Student in Ocean University of China (top 5%), 2005-2007 (consecutive for 3 years)
- Outstanding Academic Performance Scholarship for undergraduate student in Ocean University of China (top 2%), 2005-2007 (consecutive for 3 years)