CURRICULUM VITA

Ping Zhu

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EDUCATION

- Ph.D, Division of Meteorology and Physical Oceanography
  Rosenstiel School of Marine and Atmospheric Science
  University of Miami, August 2002, Atmospheric Science
- M.S., Chinese Academy of Meteorological Science,
  State Meteorological Administration, June 1988, Atmospheric Science
- B.S., Dept. of Atmos. Science, Nanjing University, July 1985, Atmospheric Science

PROFESSIONAL EXPERIENCE

- Assistant Professor, January/2006 - present
  Department of Earth Sciences
  Florida International University
- Postdoctoral Researcher, July/2004- January/2006
  Climate and Global Dynamics Division
  The National Center for Atmospheric Research
- Postdoctoral Researcher, July/2002 - July/2004
  Department of Atmospheric Sciences
  University of Washington
- Research Assistant, August/1997 - July 2002
  Division of Meteorology and Physical Oceanography
  Rosenstiel School of Marine and Atmospheric Science
  University of Miami
- Visiting Scholar, August/1996 - August/1997
  Institute of Geoscience, University of Tsukuba, Japan
- Associate Professor, September/1995 - August/1996
  Beijing Meteorological Institute, P.R.China

- Lecturer, September/1991 - August/1995
  Beijing Meteorological Institute, P.R.China
- Research Assistant, September/1989 - August/1991
  Beijing Meteorological Institute, P.R.China

RESEARCH INTERESTS

- Boundary layer clouds
- Atmospheric convection
- Hurricane boundary layer
- Numerical modelling

PROFESSIONAL MEMBERSHIPS

Member, American Geophysical Union

Member, American Meteorological Society

AWARD

1. 1994 Outstanding College Teacher Award by Beijing High Education Department.
2. 2003-2004 Smith Prize for the most original piece of research in a Ph.D. dissertation by RSMAS, University of Miami.

TEACHING

1. General Meteorology (undergraduate)
2. Dynamic Meteorology I (undergraduate)
3. Physical Climatology (undergraduate)
4. Boundary Layer Meteorology (graduate)
5. Dynamic Meteorology I (graduate)
5. Dynamic Meteorology II (graduate)
7. Graduate Seminar and Advanced Graduate Seminar

PUBLICATIONS IN INTERNATIONAL JOURNALS

Zhu, P., and P. Zuidema, 2009: On the use of PDF schemes to parameterize sub-grid clouds. *Geophysical Research Letters,* **36,** L05807, doi:10.1029/2008GL036817.

Zhu, P., 2008: A Multiple Scale Modeling System for Coastal Hurricane Wind Damage Mitigation. *Natural Hazards,* doi:10.1007/s11069-008-9240-8.

Zhu, P., 2008: Impact of land surface roughness on the change in surface winds during hurricane landfall. *Quart. Roy. Meteor. Soc.,* **134,** 1051 - 1057. DOI: 10.1002/qj.265

Zhu, P., 2008: Simulation and Parameterization of the Turbulent Transport in the Hurricane Boundary Layer by Large Eddies. *J. Geophys. Res.,* **113,** D17104, doi:10.1029/2007JD009643.

Zhu, P., W. Zhao 2008: Parameterization of Continental Boundary Layer Clouds *J. Geophys. Res. ,* **113,** D10201, doi:10.1029/2007JD009315.

Zhu, P., J. Hack, J. Kiehl, C. Bretherton, 2007: Climate Sensitivity of Tropical and Subtropical Marine Low Cloud Amount to ENSO and Global Warming due to Doubling CO2. *J. Geophys. Res.,* **112,** D17108, doi:10.1029/2006JD008174.

Zhu, P., J. Hack, J. Kiehl, 2007: Diagnosing Cloud Feedbacks in General Circulation Models. *J. Climate,* **20,** 2602-2622.

Zhu, P., C. Bretherton, M. Köhler, A. Cheng, A. Chlond, Q. Geng, P. Austin, J.-C. Golaz, G. Lenderink, A. Lock, B. Stevens, 2005: Intercomparison and interpretation of single column model simulations of a nocturnal stratocumulus topped marine boundary layer. *Monthly Weather Review,* **133,** 2741-2758.

Stevens, B., C.-H., Moeng, A. S. Ackerman, C. Bretherton, A. Chlond, S. De Roode, J. Edwards, J.-C., Golaz, H. Jiang, M. Khairoutdinov, M. P. Kirkpatrick, D. C. Lewellen, A. Lock, F. Muller, D. E. Stevens, E. Whelan, **P. Zhu,** 2005: Evaluation of large-eddy simulations via observations of nocturnal marine stratocumulus. *Monthly Weather Review,* **133,** 1443-1462.

Zhu, P., and C. Bretherton, 2004: A simulation study of shallow moist convection and its impact on the atmospheric boundary layer. *Monthly Weather Review,* **132**, 2391-2409.

Zhu, P. and B. A. Albrecht, 2003: Large eddy simulations of continental shallow cumulus convection. *Journal of Geophysical Research-Atmosphere,* **108**, No.D15, 4453, doi:10.1029/202JD003119.

Zhu, P. and B. A. Albrecht, 2002: A theoretical and observational analysis on the formation of fair-weather cumuli. *Journal of the Atmospheric Sciences,* **59**, 1983-2005.

Zhu, P. and B. A. Albrecht, 2002: Formation of fair-weather cumuli. *Bulletin of the American Meteorological Society,* **83**, 856-857.

Zhu, P. and B. A. Albrecht, and J. Gottschalck, 2001: Formation and development of nocturnal boundary layer clouds over the southern Great Plains. *Journal of the Atmospheric Sciences,* **58**, 1409-1426.

Wang, Q. and **P. Zhu,** 1995: Analysis of nighttime drainage wind in Heihe region. *Journal of the Meteorological Society of Japan,* **73,** 1285-1291.

Zhu, P. and R.-B. Jiang, 1995: Numerical study of oscillation phenomena in radiation fog. *Scientia Atmospherica Sinica,* **19,** 234-241.

Zhu, P., X.-J. Xu, and X.-S. Li, 1992: A numerical study of the second-order turbulent moments in the stable stratified nocturnal boundary layer. *Advances in Atmospheric Sciences,* **9,** *201-212.*

THESIS AND DISSERTATION

1. **Zhu, P.,** 2002: Evolution of shallow cumulus convection and its parameterization. **Ph.D. Dissertation** , RSMAS/MPO, University of Miami.

2. **Zhu, P.,** 1989: Numerical studies of the stable stratified nocturnal boundary layer. **M.S. Thesis**, Chinese Academy of Meteorological Science, SMA.