Zhengqing (James) Ye

Research Interests

- Data assimilation in atmosphere and ocean models
- High-resolution numerical simulation of coupled atmosphere-ocean model
- Large-scale ocean-atmosphere interaction
- Decadal change in climate variability with increased greenhouse gases

Projects

OurOcean

The JPL OurOcean Portal provides both real-time and retrospective analysis of remote sensing data and ocean model simulations in the Pacific Ocean.

Professional Experiences:

- Assistant Researcher, Jet Propulsion Laboratory/University of California in Los Angeles(2011-Present)
- Postdoctoral Research Associate, Jet Propulsion Laboratory/University of California in Los Angeles (2010)
- Postdoctoral Research Associate, Jet Propulsion Laboratory/California Institute of Technology (2007-2010)
- Research Assistant, University of British Columbia, Canada (2001-2007)

Selected Publications:

- **Z. Ye** and W.W. Hsieh, 2008, Changes in ENSO and associated overturning circulations from enhanced greenhouse gases by the end of the 20th century, *Journal of Climate, 21: 5745–5763, DOI:10.1175/2008JCLI580.1*.
- **Z. Ye** and W.W. Hsieh, 2008, Enhancing predictability by increasing nonlinearity in ENSO and Lorenz systems, *Nonlinear Processes in Geophysics*, 15: 793-801.
- **Z. Ye**, 2007, *Changes in the El Nino-Southern Oscillation under climate regime shift and increased greenhouse gases*, Doctoral Dissertation, University of British Columbia.
- S.-I. An, **Z. Ye** and W.W. Hsieh, 2006, Changes in the leading ENSO modes associated with the late 1970s climate shift: Role of surface zonal current, *Geophysical Research Letters*, 33: L14609, DOI:10.1029/2006GL026604.
- **Z. Ye** and W. Hsieh, 2006, The influence of climate regime shift on ENSO, *Climate Dynamics*, 26: 823-833, DOI: 10.1007/s00382-005-0105-5.

- M. Dong and **Z. Ye**, 2005, A verification study of National Climate Center's AGCM-AMIP-II result analysis. *Journal of Applied Meteorological Science*, 2005 Vol 16, Suppl, 22-29.
- **Z. Ye**, 2002, "Chapter 3, The spectral method in NCC Model" and "Chapter 9, Program structure and model run", in *The National Climate Center Climate Model---Principles and User Guide*, Beijing, *Chinese Meteorological Press*. 16-44 and 140-149.
- M. Dong, F. Zwiers and **Z. Ye**, 2000, A preliminary validation study of the seasonal forecast of two Canadian models over China, *Acta Meteo. Sinica*. Vol 14, No 3, 268-279.
- **Z. Ye**, M. Dong, J. Chen, 2000. Simulated climate by National Climate Center GCM with the observed SST, in *The Study and Design of Operational Dynamic Model for Short-Range Climate Prediction System*, Beijing, *Chinese Meteorological Press*, 70-78.
- **Z. Ye**, 1997, "Chapter 4 Spectral Method in the atmosphere models", in *The Principles and Technology Methods of Climate Models*, Beijing, *Chinese Meteorological Press*, 143-159.