

XINFENG LIANG

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RESEARCH INTERESTS	Roles of Oceans in the Climate System, Influence of Mesoscale Eddies on Deep Ocean Processes, Ocean Mixing and the Associated Dynamical Processes, Ocean Current Measurement and Ocean State Estimation
EDUCATION	Ph.D., Physical Oceanography, Columbia University, 2012 M.A., Physical Oceanography, Columbia University, 2009 B.S., Marine Sciences, Ocean University of China, 2003
RESEARCH EXPERIENCE	Assistant Professor, University of South Florida, 2016/01– Visiting Scholar, Woods Hole Oceanographic Institution, 2013/08– Postdoctoral Associate, MIT, 2012/12–2015/12 Research Assistant, Columbia University, 2007/09–2012/08
SEAGOING EXPERIENCE	The Southern Ocean, DIMES UK4, RSS James Clark Ross, 2013 (46 days) Lowered ADCP Measurements and Data Processing The Southern Ocean, DIMES UK3, RSS James Cook, 2012 (54 days) Lowered ADCP Measurements and Data Processing The Southern Ocean, DIMES UK2, RSS James Cook, 2011 (39 days) Vessel ADCP Measurements and Data Processing The Eastern Tropical Pacific, LADDER 3, RV Atlantis, 2007 (25 days) CTD Data Collection and Salinity Calibration The South China Sea, SCME, RV Dongfanghong II, 2005 (27 days) Vertical Microstructure Measurements and Data Processing
PUBLICATIONS	Yang, Q., W. Zhao, X. Liang and J. Tian, 2016, Three-dimensional distribution of turbulent mixing in the South China Sea, <i>J. Phys. Oceanogr.</i> , In Press. Zhang, Y., Z. Liu, Y. Zhao, J. Li and X. Liang , 2015, Effect of surface mesoscale eddies on deep-sea currents and mixing in the northeastern South China Sea, <i>Deep-Sea Res. II</i> , 122: 6–14

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- Liang X.**, J. Tian, X. Zhang, 2006, Observation of thermal microstructure over shelf break in the East China Sea, *Prog. Nat. Sci.*, 16:1268–1274.
- Liang X.**, X. Zhang, J. Tian, 2005, Observation of internal tides and near-inertial motions in the upper 450 m layer of the northern South China Sea, *Chin. Sci. Bull.*, 50(24):2890–2895.
- Zhang X., **X. Liang**, J. Tian, 2005, Estimates of mixing on the South China Sea Shelf. *Acta Oceanologica Sinica*, 24:1–8.
- Tian J., L. Zhou, X. Zhang, **X. Liang** et al., 2003, Estimates of M_2 internal tide energy fluxes along the margin of Northwestern Pacific using TOPEX/POSEIDON altimeter data, *Geophys. Res. Lett.*, 30(17), doi:10.1029/2003GL018008.

- MANUSCRIPTS **Liang, X.** and C. Wunsch, Estimations of global ocean vertical velocity, *J. Geophys. Res.*, in revision
- Liang, X.** and L. Yu, Variations of the global net air-sea heat flux during the "Hiatus" period (2001–2011), *J. Climate*, in revision.
- Liang, X.**, G. Forget, P. Heimbach and C. Wunsch, Estimates of the global ocean diapycnal and vertical diffusivities, *Geophys. Res. Lett.*, to be submitted
- Liang, X.**, J-B Sallee and A. Thurnherr, Circulation and mixing in Orkney Passage, *J. Phys. Oceanogr.*, to be submitted.
- TECHNICAL
REPORTS **Liang X.**, Lowered Acoustic Doppler Current Profiler (LADCP). In Cruise report: RRS James Clark Ross, JR281, 2013.
- Liang X.**, Lowered Acoustic Doppler Current Profiler (LADCP). In Cruise report: RRS James Cook, JC069, 2012.
- Liang X.**, A. Brearley. Vessel-mounted ADCP. In Cruise report: RRS James Cook JC054, 2011.
- Liang X.**, A. Thurnherr, Evaluating a High-Power Prototype of the Teledyne/RDI Workhorse ADCP, 2009.
- CONFERENCES **Liang X.**, C. Wunsch, P. Heimbach and G. Forget, Vertical redistribution of oceanic heat content, *AGU Fall Meeting*, San Francisco, CA, 2014
- Liang X.**, C. Wunsch, Estimation of the global ocean vertical velocity, *Ocean Sciences*, Honolulu, HI, 2014
- Liang X.**, C. Wunsch, Redistribution and dissipation of tidal energy over an idealized ridge, *Ocean Turbulence Conference*, Santa Fe, NM, 2013
- Liang X.**, A. Thurnherr, Eddy modulation of internal tides over the East Pacific Rise near 10°N, *AGU Fall Meeting*, San Francisco, CA, 2012
- Liang X.**, A. Thurnherr, Eddy-modulated internal waves and mixing on a mid-ocean ridge, *AGU Ocean Sciences*, Salt Lake City, UT, 2012
- Liang X.**, A. Thurnherr et al, Subinertial variability in the deep ocean near the East Pacific Rise, *AGU Ocean Sciences*, Portland, OR, 2010
- Liang X.**, L. Yang, J. Tian, Estimates of M_2 internal tide energy fluxes using TOPEX/POSEIDON altimeter data, *Western Pacific Geophysics Meeting*, Beijing, China, 2006

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Journal Reviews: *Geophysical Research Letters*, *Journal of Geophysical Research*, *Deep-Sea Research I*, *Journal of Marine Systems*, *Chinese Journal of Oceanology and Limnology*

Grant Proposal Reviews: *National Science Foundation* (USA)