

GUAN Changlong

Professor

Contact:

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Research Interest:

Dynamics and modeling of wind-generated waves, Wave-current interaction in coastal seas, Air-sea interaction, Wind wave-induced mixing in upper ocean

Research Experience:

07/1992-present, Ocean University of China, lecturer, associate professor and professor, on wave modeling, wave statistics, air-sea interaction, wave-current interaction, wave-induced turbulence.

10/1995-08/1996, Laboratory of Remote Sensing for Terrestrial Environment, CNRS, University of Toulon, France, post-doc, on wave modeling.

09/2002-10/2003, Dept. of Marine, Earth and Atmospheric Sciences, North Carolina State University, USA, senior visiting scholar, on coupled wave-current model and air-sea momentum exchange.

Selected Publications:

1. **GUAN C.-L.**, W. Hu, J. Sun and R.-L. Li, 2007: The whitecap coverage model from breaking dissipation parametrizations of wind waves. *Journal of Geophysical Research*, 112, C05031, doi:10.1029/2006JC003714.
2. **GUAN C.-L.**, and L. Xie, 2004: On the linear parameterization of drag coefficient over sea surface. *Journal of Physical Oceanography*, 34(12): 2847-2851.
3. **GUAN C.-L.**, and F. Sun, 1997: Statistical distribution of surface elevation for the fourth order nonlinear random sea waves. *Science in China, Ser. D*, 40(6): 605-612.