

Curriculum Vitae

Bin Zhang
768 West 52nd Street
Norfolk, VA 23508

Office: 757-683-6006
Fax: 757-683-5550
zhang@ccpo.odu.edu

1. Education

1999-Present, Ph.D, Center for Coastal Physical Oceanography, Old Dominion University

1996-1999, M.S, Physical Oceanography, Institute of Oceanology of Chinese Academy of Sciences

1991-1996, B.S, Geophysics, University of Science and Technology of China

2. Research Experience

Research Assistant, 1999-2006, Center for Coastal Physical Oceanography, Old Dominion University

Modeling ACC fronts in Drake Passage Using ROMS

Freshwater Estimate in the Northeast Pacific Ocean

Research Assistant, 1996-1999, Physical oceanography Department, the Oceanology Institute of Chinese Academy of Sciences

Modeling the residual tidal circulation in Bohai Sea using POM

Cooperation in Oil Spilling Software Designing and Ocean Oil Platform Hydrology Prediction

3. Cruise Experience

03/11/2002-03/15/2002, Chesapeake Bay Mouth River Plume Investigation, NOAA Ship (Ferrel)

11/04/2003-11/07/2003, Mid Atlantic Bight Canyon Investigation, NOAA Ship (Foster)

4. Research Skill

5-year experience with Regional Ocean Modeling System (ROMS). Ever used Princeton Ocean Model (POM), Los Alamos CICE Ice model and Parallel Ocean Program (POP). Development of 2 Layer 2D Quasi-geostrophic model.

Skillful in massive data analysis: time series analysis, objective analysis (kriging, optimal interpolation), and Empirical Orthogonal Function (EOF) analysis

Strong Background in Computer Sciences: Unix Scripts (perl, c shell etc.), Fortran 77/90, and C++/C/Java. Database Concepts, Object-Oriented Programming. Daily using IDL and familiar with Matlab programming.

5. Honors and Awards:

2004, Student Travel Award from College of Sciences, Old Dominion University

1999-2003, Dominion Scholar Award

6. Activities:

Membership American Geophysical Union

7. Publications

Freshwater Budget Estimate for the Northern Northeast Pacific Ocean, Bin Zhang and Thomas Royer, manuscript to submit to Journal of Geophysical Research Letters

The Effects of Antarctic Circumpolar Current Transport on the frontal variability in Drake Passage, Bin Zhang and John M Klinck, in preparation to submit to Dynamics of Atmosphere and Oceans

Modeling Study of The Residual Tidal Circulation in Bohai Sea, Zexun Wei, Guohong Fang and Bin Zhang, in preparation to submit to Bohai Tide (Chinese Journal)

A study of Mapping Coastal Line by Processing Remote Sensing Image with Wavelet Analysis. Tao Du and Bin Zhang, Marine Sciences (Chinese), 1999, Vol. 124, No.4

The Attenuation of Stress Wave in two-phase media. Xi, Daoying; Bin Zhang; Chinese Journal of Rock Mechanics and Engineering. 1998, Vol. 17(4), pp429-433.

The Attenuation of Stress Wave in Porous Rock saturated with different fluid. Xi, Daoying; Cheng Jinyi and Bin Zhang, Acta Seismological Sinica, 1997, Vol. 19(5), pp457-461.

8. Presentations

Modeling study of frontal variability in Drake Passage, Bin Zhang and John M Klinck, poster presentation at AGU Ocean Sciences Meeting, Honolulu, Hawaii, 2006

A Model Simulation of Frontal Variability in Drake Passage, Bin Zhang and John M Klinck, Oral Presentation at AGU Ocean Sciences Meeting, Portland, Oregon, 2004

Modeling Study of Frontal Variability in Drake Passage, Bin Zhang, Oral Presentation, Center for Coastal Physical Oceanography, Old Dominion University, Norfolk, Virginia, 2004

9. Reports and Projects in China:

The General and Extreme Hydrology Conditions in the area of Ocean Oil Platforms in Bohai Sea, South China Sea and East China Sea. Guohong Fang, Bin Zhang et. al., 1997-1999

Participating Project of Software design: Oil Spilling Tracking and Pre-alarming System for Chinese Ocean Petroleum Companies (C/C++, Fortran 77), 1997, 1999

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