

Ke Chen

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EDUCATION:

2011 Ph.D., Oceanography, North Carolina State University
2007 M.S., Physical Oceanography, Ocean University of China
2004 B.S., Oceanography, Ocean University of China

PROFESSIONAL EXPERIENCE:

2014 - Postdoctoral Investigator, Woods Hole Oceanographic Institution
2012 - 2014 Postdoctoral Scholar, Woods Hole Oceanographic Institution
2011 - 2012 Postdoctoral Research Associate, Department of Marine Earth and Atmospheric Science, North Carolina State University
2007 - 2011 Research Assistant, Department of Marine Earth and Atmospheric Science, North Carolina State University

RESEARCH GRANTS:

Collaborative Research: Physical-Biological Processes of Gulf Stream Warm Core Rings: Vertical Nutrient Delivery and Ecosystem Response, lead-PI (with P. Gaube), National Science Foundation (OCE-1558960, \$578,038), 2016-2019.

Physical and Biological Exchange Processes and Lagrangian Pathways between Deep Ocean and Shelf Regions of the Northwestern Atlantic, co-PI (with I. Rypina, J. Llopiz and L. Pratt), National Science Foundation (OCE-1558806, \$772,970), 2016-2019.

Interannual Variability of Winter-Spring Temperature in the Middle Atlantic Bight: Linkages to Large-Scale Atmospheric and Oceanic Changes, lead-PI (with G. Gawarkiewicz and Y-O Kwon), National Science Foundation (OCE-1435602, \$768,030), 2014-2017.

Impact of Extreme Climate Variability on the Circulation and Heat Budget in the Coastal Ocean of Northeast U.S., lead-PI, Woods Hole Oceanographic Institution, 2014.

PARTICIPATION IN RESEARCH PROJECTS:

3-D Model Forecast of the Vertical and Horizontal Distributions of Oil Plumes Arising From the Deep Water Horizon Spill, R. He (PI), National Science Foundation, 2010.

Rapid Environmental Assessment Using an Integrated Coastal Ocean Observation Modeling System, O. Schofield, S. Glenn, J. Wilkin, G. Gawarkiewicz, R. He, D. McGillicuddy, K. Fennel and M. Moline (co-PIs), Office of Naval Research, 2006-2011.

RESEARCH CRUISES AND EXPERIMENTS:

- Mar 2012 NCSU Slocum glider deployment/recovery, R/V Explorer, Savannah, GA
- Mar 2012 NCSU Slocum glider deployment/recovery, R/V Seahawk, Wilmington, NC
- Aug 2011 NCSU Slocum glider ballasting and deployment, Wilmington, NC
- Mar 2008 Physical and biogeochemical survey, Sargasso Sea, R/V Cape Hatteras
- Jun-Jul 2006 Comprehensive oceanic survey, East China Sea, R/V Dongfanghong
- Apr 2006 Geophysical fluid experiment “Simulation of the Quasi-Geostrophic Rossby Waves” in Key Laboratory of Physical Oceanography, Ocean University of China
- Jun 2005 Geophysical fluid experiment “Simulation of the Internal Waves in a two-layer Stratified Fluid”, in Key Laboratory of Physical Oceanography, Ocean University of China
- May 2005 SC cross-section Survey, Yellow Sea

PROFESSIONAL WORKSHOPS:

- Jan 2016 NSF Ocean Observing Initiative (OOI) Coastal Observatories Workshop, Arlington, VA
- Aug 2014 Coupled Ocean-Atmosphere-Wave-Sediment Transport (COAWST) Modeling System Workshop, Woods Hole, MA
- Jan 2013 Cooperative Institute for the North Atlantic Region (CINAR) Shelfbreak Ecosystem Workshop, Providence, RI
- Mar 2011 NSF Ocean Observing Initiative (OOI) Pioneer Array Science Workshop, Providence, RI
- Jul 2010 Gulf of Mexico Pilot Prediction Project Meeting, Jet Propulsion Laboratory, Pasadena, CA
- Jul 2010 Workshop on the ROMS 4-Dimensional Variational (4D-Var) Data Assimilation Systems for Advanced ROMS Users, Santa Cruz, CA

SERVICE:

Professional:

Proposal reviewer: National Science Foundation, National Oceanic and Atmospheric Administration

Journal reviewer/referee: Journal of Physical Oceanography, Journal of Atmospheric and Oceanic Technology, Journal of Geophysical Research, Geophysical Research Letters, Continental Shelf Research, Estuarine Coastal and Shelf Science, Biogeosciences, Advances in Meteorology, Applied Mathematical Modeling

Book reviewer: Monitoring and Modeling the Deepwater Horizon Oil Spill: A Record-Breaking Enterprise, Geophysical Monograph Series, AGU/geopress, Washington, D.C.

Others:

- 2014 Volunteer, Geophysical Fluid Dynamics Laboratory Open Days, Woods Hole Oceanographic Institution
- 2013 Public Presentation, South Shore Science Center, MA
- 2011 Graduate Student Recruitment Service, North Carolina State University
- 2010 Volunteer and Organizer, Fundraising for Yushu earthquake, North Carolina State University
- 2009 Conference Volunteer, Mid-Atlantic Bight Physical Oceanography Meteorology (MABPOM) &

Southeast Coastal Oceanography and Meteorology (SECOM) Conference, Raleigh, NC

PROFESSIONAL AFFILIATIONS:

American Geophysical Union

American Meteorological Society

Association for the Sciences of Limnology and Oceanography

American Association for the Advancement of Science