

**Ke Chen**

Postdoctoral Scholar  
Cooperative Institute for the North Atlantic Region (CINAR)  
Department of Physical Oceanography  
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Ph.D., Marine Science, North Carolina State University, 2011  
M.S., Physical Oceanography, Ocean University of China, 2007  
B.S., Oceanography, Ocean University of China, 2004

**Appointments:**

Postdoctoral Scholar, Woods Hole Oceanographic Institution, 2012-present  
Postdoctoral Research Associate, North Carolina State University, 2011-2012  
Research Assistant, North Carolina State University, 2007-2011  
Research Assistant, Ocean University of China, 2004-2007

**Awards:**

Postdoctoral Scholarship, Woods Hole Oceanographic Institution, 2012-2014  
Williams/Tobias Award, North Carolina State University, 2010  
Graduate Scholarship, Ocean University of China, 2004-2006  
Excellent Youth League Member, Ocean University of China, 2003  
Undergraduate Scholarship, Ocean University of China, 2003

**Recent and significant publications:**

He, R, **K. Chen**, K. Fennel, G. Gawarkiewicz, D. McGillicuddy , 2011. Seasonal and Interannual Variability of Physical and Biological Dynamics at the Shelfbreak Front of the Middle Atlantic Bight: Nutrient Supply Mechanisms. *Biogeosciences*, 8, 2935-2946.

**Chen, K**, He, R., 2010. Numerical Investigation of the Middle Atlantic Bight Frontal Circulation using a High Resolution Ocean Hindcast Model. *Journal of Physical Oceanography*, V40, 5, 949-964.64.

He, R. and **K. Chen**, T. Moore, M. Li, 2010. Mesoscale Variations of Sea Surface Temperature and Ocean Color Patterns at the Mid-Atlantic Bight Shelfbreak. *Geophysical Research Letters*, doi: 10.1029/2010GL043067.

**Chen, K.**, G. Gawarkiewicz, S. Lentz, and J. Bane, Diagnosing the Warming of the Northeastern US Coastal Ocean in 2012: A linkage between the atmospheric jet stream variability and ocean response, *Journal of Geophysical Research*, in press

He, R. and **K. Chen**, Investigation of the Northeastern North America Coastal Circulation with a Regional Circulation Hindcast Experiment. *Ocean Science*, in revision.

**Chen, K.**, R. He, B. Powell, G. Gawarkiewicz, A. Moore, and H. Arrango, Data Assimilative Modeling Investigation on Gulf Stream Warm Ring Interaction with Continental Shelf and Slope, *Journal of Geophysical Research*, in revision.

**Synergistic Activities:**

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

Journal reviewer: Journal of Physical Oceanography, Journal of Atmospheric and Oceanic Technology, Continental Shelf Research

Proposal reviewer: National Oceanic Atmospheric Administration

Teaching Assistant, Dynamics of Shelf Circulation, North Carolina State University, 2012

Graduate Student Recruitment Service, North Carolina State University, 2011

Conference Volunteer, Mid-Atlantic Bight Physical Oceanography Meteorology (**MABPOM**) & Southeast Coastal Oceanography and Meteorology (**SECOM**) Conference, Raleigh, NC, 2009

**Collaborators and Other Affiliations over the Last 4 Years:**

J. M. Bane (UNC-CH), K. Fennel (U. Dalhousie), G. G. Gawarkiewicz (WHOI), R. He (NCSU), Y. Kwon (WHOI), S. J. Lentz (WHOI), D. J. McGillicuddy (WHOI), A. M. Moore (UCSC), B. S. Powell (U. Hawaii)

**Graduate Advisor and Postdoctoral Sponsors:**

R. He (NCSU), G. G. Gawarkiewicz (WHOI), S. J. Lentz (WHOI)