

CURRICULUM VITAE

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I. Education:

1966	B.A., Amherst College, Physics.
1969	M.A., The Johns Hopkins University, Physical Oceanography
1973	Ph.D., The Johns Hopkins University, Physical Oceanography

II. Professional Background

A. Positions

1973-82	Associate Research Scientist, Chesapeake Bay Institute, The Johns Hopkins University.
1981	Visiting Investigator, Woods Hole Oceanographic Institution.
1982-1993	Associate Professor, University of Maryland Center for Environmental and Estuarine Studies.
1994-	Professor, Horn Point Laboratory, University of Maryland Center for Environmental Science

B. Awards

1968	Summer Student Fellow, Woods Hole Oceanographic Institution
1989	B.H. Ketchum Award, Woods Hole Oceanographic Institution

III. Research

A. Areas of professional expertise

Physical oceanography, estuarine and continental shelf circulation, instrumentation and observing systems, planktonic recruitment.

B. Peer-Reviewed Publications

- Glenn, S. M., W.C. Boicourt, B. Parker, and T. D. Dickey. 2000. Operational Observation networks for ports, a large estuary, and an open shelf. *Oceanography* **13**(1):12-23.
- Glenn, S. M., T. D. Dickey, B. Parker, and W.C. Boicourt. 2000. Long-term real-time coastal observation networks. *Oceanography* **13**(1):14-34.
- Xu, J., S.-Y. Chao, R. R. Hood, H. V. Wang, and W. C. Boicourt (2001) Assimilating scanfish data into a model of a partially mixed estuary. *Journal of Geophysical Research*.
- Valle-Levinson, A., W.C. Boicourt, and M. R. Roman (2003) On the linkages among density, flow and bathymetry gradients at the entrance to the Chesapeake Bay. *Estuaries* **26**(6):1437-1449.
- Roman, M.R, Zhang, X., McGilliard, C., and Boicourt, W. (2004) Seasonal and annual variability in the spatial patterns of plankton biomass in Chesapeake Bay. *Limnol. Oceanogr.* **50**(2): 480-492.
- Boicourt, W.C. (2005) Physical response of Chesapeake Bay to hurricanes moving to the wrong side. In: K.G. Sellner (ed.) *Hurricane Isabel in Perspective*. Chesapeake Bay Research Consortium, CRC Publication 05-160, Edgewater, MD. p. 39-48.
- W.M. Kemp, W.R. Boynton, J.E. Adolf, D.F. Boesch, W.C. Boicourt, G. Brush, J.C. Cornwell, T.R. Fisher, P.M Glibert, J.D. Hagy, L.W. Harding, E.D. Houde, D.G. Kimmel, W.D. Miller, R.I.E. Newell, M.R. Roman, E.M. Smith, and J.C. Stevenson (2005) Eutrophication of Chesapeake Bay: historical trends and ecological interactions. *Mar. Ecol. Prog. Ser.* **303**:1-29.
- M.R. Roman, W.C. Boicourt, D.G Kimmel, W.D. Miller, J.E. Adolf, J. Bichy, L.W. Harding, Jr., E. D. Houde, S. Jung, and X. Zhang (2005) Chesapeake Bay plankton and fish abundance enhanced by Hurricane Isabel. *EOS* **86**(28): 261-265.
- Li, M., L. Zhong, and W.C. Boicourt (2005) Simulations of Chesapeake Bay estuary: Sensitivity to turbulence mixing parameterizations and comparison with observations. *Jour. Geophys. Res.* **110**:C12004, 22 pp.
- Li, M., L. Zhong, W.C. Boicourt, S. Zhang, and D.-L. Zhang (2006) Hurricane-induced storm surges, currents and destratification in a semi-enclosed bay. *Geo. Res. Let.* **33**:L02604, 4 pp.
- Zhang, X., M. Roman, D. Kimmel, C. McGilliard, and W. Boicourt. (2006) Spatial variability in plankton biomass, and hydrographic variables along an axial transect in Chesapeake Bay. *J. Geophys. Res.* 111:C05S11.

- Li, M., L. Zhong, W.C. Boicourt, S. Zhang, and D.-L. Zhang. (2007) Hurricane-induced destratification and restratification in a partially mixed estuary. *Jour. Mar. Res.* **65**:169-182.
- Costantini, M. S.A. Ludsin, D.M. Mason, X. Zhang, W.C. Boicourt, and S.B. Brandt (2008). Effect of hypoxia on habitat quality of striped bass (*Morone saxatilis*) in Chesapeake Bay. *Can. J. Fish Aquat. Sci.* **65**: 1-14.
- Glibert, P.M., V. Kelly, J. Alexander, L.A. Codispoti, W.C. Boicourt, T.M. Trice, and B. Michael (2008) *In situ* nutrient monitoring: A tool for capturing nutrient variability and the antecedent conditions that support algal blooms. *Harmful Algae*, doi: 10.1016/j.hal.2008.013.
- Kimmel, D.G., W.C. Boicourt, J.J. Pierson, M.R. Roman, and X. Zhang (2009) A comparison of the mesozooplankton response to hypoxia in Chesapeake Bay and the northern Gulf of Mexico using the biomass size spectrum. *Jour. Exp. Mar. Bio. Ecol.* doi:10.1016/j.jembe.2009.07.012.
- Pierson, J.J., M.R. Roman, D.G. Kimmel, W.C. Boicourt, and X. Zhang (2009). Quantifying changes in the vertical distribution of mesozooplankton in response to hypoxic bottom waters. *Jour. Exp. Mar. Bio. Ecol.* doi:10.1016/j.jembe.2009.07.013.
- Schofield, O. et al. (2010) A regional Slocum glider network in the Mid-Atlantic coastal waters leverages broad community engagement. *Marine Technology Society Journal* **44**(6): 64-74.
- Boicourt, W.C., A.F. Blumberg, M. Li, N. Georgas, N. Nidzieko, W.D. Wilson, T.G. Updyke, and E.J. Kelly. (2012) Observing the Urban Estuary: Review and Prospect. In press: Marine Technology Society.
- Brown, W., W. Boicourt, C. Flagg, A. Gangopadhyay, O. Schofield, S. Glenn, and J. Kohut (2012) Mapping the Mid-Atlantic Cold Pool Evolution with Ocean Gliders and Numerical Models. In press: Marine Technology Society.

C. Contracts and Grants

1. Awarded

National Oceanic and Atmospheric Administration. Mid-Atlantic Regional Association Coastal Ocean Observing System (MARACOOS). Thoroughgood, Boicourt, Glenn, Atkinson and Brown. \$500,000 4/01/09-3/31/12.

National Oceanic and Atmospheric Administration. Mid-Atlantic Regional Association Coastal Ocean Observing System (MARACOOS) Operations. 17 PI's, \$2,100,000, 4/01/07-3/31/13.

National Science Foundation. The Role of Wind in Estuarine Dynamics. 5 PI's, \$2,100,000. 6/01/10-5/31/14.

2. Pending

National Oceanic and Atmospheric Administration. Mid-Atlantic Regional Association Coastal Ocean Observing System (MARACOOS) Operations. 17 PI's, \$2,100,000, 4/01/13-3/31/14.

National Oceanic and Atmospheric Administration. Integrated Rapid-Response Observations and Ocean Ensemble Optimization to Improve Storm Intensity Forecasts in the Northeast U.S. 9 PI's.

D. Invited Seminars and Presentations

7 March: "Monitoring for Restoration" Ocean Leadership 2012 Public Policy Forum: The Science of Ocean, Coastal, and Great Lakes Restoration. The U.S. Capitol, Washington DC

17 October: "Observing the Urban Estuary: Review and Prospect." Boicourt, Blumberg, Li, Georgas, Nidziko, Wilson, Updyke, Kelly. Marine Technology Society Oceans12. Virginia Beach, VA.

E. Symposia Organized/Chaired for Professional Meetings

16 October: Session Chair, Integrated Ocean Observing System. Marine Technology Society Oceans12, Virginia Beach, VA

F. Active Memberships in Professional Societies

American Geophysical Union
Estuarine Research Federation

IV. Teaching and Training

A. University System of Maryland Courses Taught

MEES 661 Physics of Estuaries and Coastal Seas with V. Coles

B. Graduate Students Supervised as Major Advisor

1. Degrees Completed

Peter Stone	MA Physical Oceanography, 1995, UMCP
Zhen Li	Ph.D. Physical Oceanography, 1999, UMCP
Zhenghua Jin	MA Physical Oceanography, 2004, UMCP
Edgar Davis	MA Physical Oceanography, 2005, UMCP

2. Students Currently Supervised

3. Current Graduate Student Committee Memberships

Yun Li	Ph.D	UMCP MEES
Hailong Liu	Ph.D	UMCP Atmospheric and Ocean Sciences
Jacob Goodwin	Ph.D	UMCP MEES
Peng Jia	Ph.D	UMCP MEES
Kevin Meyer	Ph.D	UMCP MEES
JiaGao	Ph.D	UMCP MEES
Yini Shanguan	Ph.D	UMCP MEES

V. Outreach and Service

1995-	Maryland Sea Grant Science Advisory Committee
2007-12	California Sea Grant Advisory Panel
2009-	Oregon Sea Grant Advisory Panel
2003-	Co-PI, Mid-Atlantic Coastal Ocean Observing Regional Association (MARACOOS) Coastal Ocean Observing System
2004-12	MARACOOS Representative, National Federation of Regional Associations (NFRA) of Integrated Ocean Observing System
2005-	Board of Directors, MARACOOS
2007-	Technical Advisory Committee, Department of Defense Strategic Environmental Research and Development Program (SERDP) Defense Coastal/Estuarine Research Program (DCERP)
2012	U.S. Navy Research Laboratory Visiting Committee, Remote Sensing
2012-	Chair, Program Advisory Committee, Ocean Leadership, National Science Foundation Ocean Observatories Initiative (OOI).