

CURRICULUM VITAE

William C. Boicourt

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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

- 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.
- Roman, M. R., J. J. Pierson, D. G. Kimmel, W. C. Boicourt, and X. Zhang. 2012. Impacts of Hypoxia on Zooplankton Spatial Distributions in the Northern Gulf of Mexico. *Estuaries and Coasts* 35(5):1261–1269. doi:10.1007/s12237-012-9531-x
- 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. *MTS Oceans*, 2012, IEEE, 1–9.
- 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. *MTS Oceans*, 2012.
- Zhang, H., D.M. Mason, C.A. Snow, A.T. Adamack, S.B. Brandt, X. Zhang, D. G. Kimmel, M.R. Roman, W.C. Boicourt, and S.A. Ludsin, (2014), Effects of hypoxia on habitat quality of pelagic planktivorous fishes in the northern Gulf of Mexico. *Mar. Ecol. Prog. Ser.* 505: 209-226. DOI: 10.3354/meps10768.
- Biermann, J., E. North, and W.C. Boicourt (2015) The distribution of blue crab (*Callinectes sapidus*) megalopae at the mouths of Chesapeake and Delaware Bays: Implications for larval ingress. *Estuaries and Coasts*. DOI 10.1007/s12237-015-9978-7J.
- M.E. Scully, A. Fisher, S. Suttles, L. Sanford, W. Boicourt (2015) Langmuir Circulation in Chesapeake Bay Part 1: Characterization and Modulation. *Jour. Phys. Ocean.* DOI: 10.1175/JPO-D-14-0239.
- Gelesh, L., K. Marshall, W. Boicourt, and L. Lapham (2016) Methane concentrations increase in bottom waters during summertime anoxia in the highly eutrophic estuary, Chesapeake Bay, USA., *Limnol. Ocean.* DOI: 10.1002/lno.10272
- Xie, X., M. Li, W. C. Boicourt (2016) Baroclinic effects on wind-driven lateral circulation in Chesapeake Bay. In Revision: *Journal of Physical Oceanography*.

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 4/01/09-3/31/16.

National Oceanic and Atmospheric Administration. Mid-Atlantic Regional Association Coastal Ocean Observing System (MARACOOS) Operations. 17 PI's, \$2,100,000, 4/01/07-3/31/16.

National Science Foundation. The Role of Wind in Estuarine Dynamics. 5 PI's, \$2,100,000. 6/01/10-5/31/15.

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. Li and Boicourt, UMCES portion. \$850,000.

2. Pending

D. Invited Seminars and Presentations

9 April "Sea-Level Rise: Ice, Water, Ocean Circulation, Storms" Calvert County League of Women Voters, Prince Frederick, MD

16 Sept. "Storm Surge Forecasting in the Middle Atlantic Bight: Review and Prospects" University of Delaware Coastal Flood Research Meeting, Newark, DE

28 Sept. "Hurricanes, Nor'easters, Storm Surges, and the Future" Chesapeake Area Professional Captains Association, Annapolis, MD

E. Symposia Organized/Chaired for Professional Meetings

F. Active Memberships in Professional Societies

American Geophysical Union
Coastal and 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

Jacob Goodwin	Ph.D	MEES
Jia Gao	Ph.D	MEES
Wei Liu	Ph.D	MEES
Wenfi Ni	Ph.D	MEES
Jason Spires	MA	MEES
Yini Shangguan	Ph.D	MEES
Fan Zhang	Ph.D	MEES

V. Outreach and Service

1995- Maryland Sea Grant Science Advisory Committee

2003- Co-PI, Mid-Atlantic Coastal Ocean Observing Regional Association
(MARACOOS) Coastal 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)
- 2009- Oregon Sea Grant Advisory Panel
- 2012 U.S. Navy Research Laboratory Visiting Committee, Remote Sensing
- 2012- Chair, Program Advisory Committee, Ocean Leadership, National Science Foundation Ocean Observatories Initiative (OOI).
- 2013 Delaware Sea Grant Advisory Panel
- 2015 National Science Foundation Ocean Sciences Physical Oceanography Advisory Committee
- 2015 CONCORDE External Advisory Panel