

## W. DAVID MILLER

Horn Point Laboratory

University of Maryland Center for Environmental Science

P. O. Box 775 Cambridge, MD 21613 USA

410-221-8223 • 410-221-8490 (fax)

dmiller@hpl.umces.edu • <http://www.hpl.umces.edu> • <http://www.cbrsp.org>

### EDUCATION

WAKE FOREST UNIVERSITY, Winston-Salem, NC

Bachelor of Science, Biology, Minor in Politics, May 1993

COLLEGE OF WILLIAM AND MARY IN VIRGINIA, Williamsburg, VA

Master of Arts, Department of Biology, December 1998 (Advisor: Iris Anderson)

**Thesis:** Effects of Increased Inundation and Wrack Deposition on Photosynthesis and Respiration in a Virginia Salt Marsh.

UNIVERSITY OF MARYLAND, Marine, Estuarine, Environmental Science Program

Center for Environmental Science, Horn Point Laboratory, Cambridge MD

Doctor of Philosophy in Biological Oceanography (Fall 1998-present) (Advisor: Larry Harding)

**Research Interests:** Climate influences on phytoplankton dynamics and remote sensing of phytoplankton in coastal waters.

### PUBLICATIONS

Neubauer, S.C., W.D. Miller, and I.C. Anderson. 2000. Carbon cycling in a tidal freshwater marsh ecosystem: A carbon gas flux study. *Marine Ecology Progress Series*, 199: 13-30.

Miller, W.D., S.C. Neubauer, and I.C. Anderson. 2001. Effects of sea-level induced disturbances on high salt marsh metabolism. *Estuaries*, 24: 357-367.

Harding, L.W. Jr., W.D. Miller, R.N. Swift, and C.W. Wright. 2001. Aircraft remote sensing, pp. 113-122. In: Steele, J., S. Thorpe, and K. Turekian. *Encyclopedia of Ocean Sciences*. Academic Press Ltd. London U.K.

Miller, W.D., L.W. Harding Jr., and J.E. Adolf. 2005. The Influence of Hurricane Isabel on Chesapeake Bay Phytoplankton Dynamics, In: Sellner, K.G. (ed.) *Proceedings from the Symposium on Hurricane Isabel*. Chesapeake Research Consortium, Baltimore MD. *In press*.

Roman, M.R., J.E. Adolf, J. Bichy, W.C. Boicourt, L.W. Harding, Jr., E.D. Houde, S. Jung, D.G. Kimmel, W.D. Miller, X. Zhang. 2005. Stimulation of Plankton and Fish Abundance in Chesapeake Bay by Hurricane Isabel. *EOS*, *In press*.

Adolf, J.E., L.W. Harding Jr., C.L. Yeager, M.E. Mallonee, W.D. Miller. Environmental forcing of phytoplankton floral composition, biomass, and primary productivity in Chesapeake Bay, USA. *Estuarine Coastal and Shelf Sciences*, In Review.

Kemp, W.M., 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, J.C. Stevenson Eutrophication of Chesapeake Bay: Historical trends and ecological interactions. *Marine Ecology Progress Series*, In Review.

Miller, W. D., D.G. Kimmel, LW Harding Jr. Predicting Spring Discharge of the Susquehanna River from a Synoptic Climatology for the Eastern United States. *Water Resources Research*, In Review.

## PRESENTATIONS

November 1996, Atlantic Estuarine Research Society, Pine Knoll Shores, NC (talk)  
October 1997, Estuarine Research Federation Meeting, Providence, RI (poster)  
January 1998, Virginia Coast Reserve/Long-Term Ecological Research Meeting, Charlottesville, VA (poster)  
September 1999, Estuarine Research Federation Meeting, New Orleans, LA (talk)  
October 2000, National Academy of Sciences, Symposium on Nutrient Over-Enrichment of Coastal Waters, Washington, DC (poster)  
May 2003, Atlantic Coast Environmental Indicators Consortium Meeting, Charleston, SC (talk)  
September 2003, Estuarine Research Federation Meeting, Seattle, WA (poster)  
December 2003, EPA-Estuarine, Great Lakes Environmental Indicators Program Meeting, Bodega Bay, CA (poster)  
January 2004, NOAA-COP Progress Meeting, Solomon Island, MD (talk)  
November 2004, Hurricane Isabel in Perspective Symposium, Linthicum Heights, MD (talk)

## WORK EXPERIENCE

NASA Earth System Science Fellow Cambridge MD. (September 2003- present)  
Washington College Chestertown MD. *Lecturer* laboratory instructor introductory ecology (Fall 2003)  
University of Maryland, Cambridge MD. *Research Assistant*. collect, process, and analyze aircraft ocean color remote sensing data, laboratory analysis of water samples, bio-optical measurements (August 1998-present)  
Virginia Institute of Marine Science, Gloucester Point, VA. *Laboratory Technician*. nutrient analysis, plankton culturing, submerged aquatic vegetation monitoring, remote sensing data collection, and analysis of marsh ecological processes. (January 1996-August 1998)  
Susquehanna River Basin Commission, Harrisburg, PA. *Intern*. Developed low-flow reservoir release model and collected biological, physical, and hydrographic field data for fish habitat study. (March-August 1994)  
U.S. Fish and Wildlife Service, Alligator River and Pea Island NWR, Manteo, NC. *Volunteer*. (Summer 1993)  
Wake Forest University, Winston-Salem, NC. *Undergraduate Research Assistant*. (September 1992-May 1993)  
Nixon Park, York, PA. *Environmental technician*. (May-August 1992)

## CERTIFICATES/SKILLS

P.A.D.I. SCUBA certification, 1993  
U.S. Coast Guard Auxiliary Boating Safety Course, 1996  
Cruise experience R/V Cape Henlopen 2000-2004  
PC/MacIntosh/Unix operating system familiarity  
Radioisotope authorized user  
HazMat/Confined Space Technician  
Red Cross CPR/First Aid certification

## AWARDS, HONORS, AND GRANTS

ERF travel grant - 1997 Providence, RI  
AERS travel grant - 1996 Pine Knolls, NC  
HPL travel grant - 1999 ERF Meeting New Orleans, LA  
HPL small research grant - 1999 (\$1200)  
HPL workshop grant - 2000 Bigelow Laboratory Boothbay Harbor, ME (\$2000)  
HPL travel grant - 2003 ERF Meeting Seattle, WA (\$750)  
NASA Earth Systems Science Fellowship - 2003-05 (\$24000/yr)  
NOAA Aircraft Remote Sensing Grant - 2004 (\$20000)

## MEMBERSHIPS

Estuarine Research Federation  
Atlantic Estuarine Research Society  
American Society of Limnology and Oceanography  
American Geophysical Union