

Jeremy Mark Testa

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Education

- Pending** **Ph.D.** University of Maryland, Center for Environmental Science
Marine-Estuarine-Environmental-Sciences, Oceanography
- 2006** **M.S.** University of Maryland, Center for Environmental Science,
Marine-Estuarine-Environmental-Sciences, Environmental Science
- 2003** **B.S.** State University of New York College of Environmental Science
and Forestry, Environmental and Forest Biology, *magna cum laude*
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Research Interests

Estuarine biogeochemistry and anthropogenic influences on estuarine biological and chemical processes, dissolved oxygen dynamics in estuarine and wetland ecosystems, eutrophication, numerical modeling, estuarine systems ecology

Research Grants and Fellowships

- 2005** National Estuarine Research Reserve System (NERRS) Graduate Research Fellowship, “Water quality and nutrient cycling in the Patuxent River estuary: Assessing the role of tidal marshes” (\$28,900)
- 2005** University of Maryland, Horn Point Laboratory, Small Research Grant “Water quality and nutrient cycling in the Patuxent River estuary: Assessing the role of tidal marshes” (\$1300)
- 2000** University of Maryland, Horn Point Laboratory, Small Research Grant “Seasonal measurements of Plankton Community Production and Respiration in the Patuxent River estuary” (\$1000)
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Professional Experience

- 2007** Research Assistant ♦ Moreton Bay Research Station ♦ University of Queensland Centre for Marine Studies ♦ Brisbane QLD 4072 Australia
- 2006** Visiting Scientist ♦ Freshwater Biological Laboratory ♦ University of Copenhagen
Helsingørsgade 51, 3400 Hillerød, Denmark

- 2006** Faculty Research Assistant I ♦ University of Maryland Center for Environmental Science, Horn Point Laboratory ♦ Cambridge, Maryland 21613 ♦ Supervisor: W. Michael Kemp
- 2003** Undergraduate Research Assistant ♦ State University of New York College of Environmental Science and Forestry ♦ Syracuse, New York 13210 ♦ Supervisor: Charles A. S. Hall
- 2003** Research Experience for Undergraduates in the Ocean Sciences grant ♦ Included funding to attend the 2003 American Society of Limnology and Oceanography Aquatic Sciences Meeting, representing the Boston University Marine Program ♦ Salt Lake City, Utah
- 2002** National Science Foundation *Research Experience for Undergraduates* ♦ Boston University Marine Program (at the Marine Biological Laboratory) ♦ Woods Hole Oceanographic Institution (guest student) ♦ Woods Hole, Massachusetts 02543
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Publications

- Testa, J.M.** and W.M. Kemp. *In Press*. Regional, seasonal, and inter-annual variability of biogeochemical processes and physical transport in a partially stratified estuary: a box-modeling analysis. *Marine Ecology Progress Series*
- Newell R.I.E., W.M. Kemp, J.D. Hagy, C.F. Cerco, **J.M. Testa**, and W.R. Boynton. 2007. Top-down control of phytoplankton by oysters in Chesapeake Bay, USA: Comment on Pomeroy et al. (2006). *Marine Ecology Progress Series* 341: 293-298
- Testa, J.M.**, M.A. Charette, E.R. Sholkovitz, M.C. Allen, A. Rago, and C.W. Herbold. 2002. Cycling of dissolved iron in the subterranean estuary of a coastal bay: Waquoit Bay, Massachusetts. *Biological Bulletin* 203(2): 255-256.
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Technical Reports

- Boynton, W.R., J.C. Cornwell, W.M. Kemp, C. Palinkas, **J.M. Testa**, E.M. Bailey, M. Ownes, K.V. Wood, S. Moese, L. Moore. 2007. Targeted Watershed Measurement Program and Key Process Evaluation. Year 1: Corsica River Estuary: Data Report. MD DNR. Ref. No. [UMCES]CBL 07-088.
- Testa, J.M.** 2006. Water quality and nutrient cycling in the Patuxent River estuary: Assessing the role of tidal marshes. Final Technical Report. NOAA NERR system.
- Testa, J.M.** 2006. Factors regulating variability in water quality and net biogeochemical fluxes in the Patuxent River estuary. Masters Thesis. University of Maryland at College Park. College Park, Maryland. 179 pp.
- Testa, J.M.** 2003. Simulating spatial and temporal fluctuations of dissolved oxygen in Flax Pond, New York. Honors Thesis. The State University of New York College of Environmental Science and Forestry, Syracuse, New York. 61 pp.

Presentations

- 2006 Testa, J.M.** Response of water quality to changes in nutrient loading in the Patuxent River estuary. Freshwater Biological Laboratory, Hillerød, Denmark
- 2006 Testa, J.M.** and Kemp, W.M. Exchanges of nitrogen and phosphorus between tidal freshwater marshes and the Patuxent River estuary: Temporal variability and relevance in large-scale nutrient budgets AERS Spring Meeting, Philadelphia, PA
- 2005 Testa, J.M.**, Kemp, W.M., Boynton, W.R., and Hagy J.D. Response of water quality to climate and nutrient loading in the Patuxent River estuary. ERF Meeting, Norfolk, VA.
- 2005 Testa, J.M.** and Kemp, W.M. Net ecosystem production and biogeochemical nutrient transformations along the axis of a coastal plain estuary. ASLO Summer Meeting, Santiago de Compostela, Spain.
- 2005 Testa, J.M.** and Kemp, W.M. Interacting effects of climate and nutrient management in net metabolism and biogeochemical fluxes in the Patuxent River estuary. AERS Spring Meeting, Solomons, MD
- 2003 Kroeger, K.D.**, Charette, M.A., **Testa, J.M.**, Allen, M.C., Rago A., Herbold, C.W., and Sholkovitz, E.R. 2003. Nitrogen cycling in a subterranean estuary. ASLO Aquatic Sciences Meeting, Salt Lake City, UT.
- 2003 Testa, J.M.** and Hall, C.A.S. Simulating spatial and temporal fluctuations of dissolved oxygen in Flax Pond, New York. SUNY ESF Spotlight on Student Research, Syracuse, NY.
- 2002 Testa, J.M.**, Charette, M.A., Sholkovitz, E.R., Allen, M.C., Rago A., and Herbold, C.W. Dissolved iron cycling in the subterranean estuary of a coastal bay: Waquoit Bay, Massachusetts. General Scientific Meetings of the Marine Biological Laboratory, Woods Hole, MA

Teaching Experience

Graduate Teaching Assistant, 2008, University of Maryland. Responsible for aiding in grading and course presentation for Estuarine Systems Ecology (MEES 611)

Graduate Teaching Assistant, 2004, University of Maryland. Responsible for aiding in grading and course presentation for Quantitative Methods in the Environmental Sciences (MEES 698G)

Undergraduate Teaching Assistant, 2001, State University of New York College of Environmental Science and Forestry. Responsible for teaching all material, developing tests, and grading tests for the laboratory of Dendrology I (EFB 336)

Undergraduate Teaching Assistant, 2002, State University of New York College of Environmental Science and Forestry. Responsible for laboratory preparation and grading of tests and projects for Systems Ecology (EFB 518)

Workshop Leader, State University of New York College of Environmental Science and Forestry. Responsible for facilitating a weekly recitation-style workshop for students in General Chemistry I (FCH 150) and General Chemistry II (FCH 152)