

BIOGRAPHICAL SKETCH – Michael R. Roman

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**Professional Preparation:**

Lake Forest College, Biology B.A. 1971  
The City College, Biology M. A. 1973  
University of New Hampshire, Zoology Ph.D. 1976

**Positions Held:**

Director, University of Maryland Center for Environmental Studies, Horn Point Laboratory, October 2001 – present.

Professor, University of Maryland, Center for Environmental and Estuarine Studies, Horn Point Laboratory, July 1990.

Associate Professor, University of Maryland, Center for Environmental and Estuarine Studies, Horn Point Laboratory, July 1986 - July 1990.

Assistant Professor, University of Maryland, Center for Environmental and Estuarine Studies, Horn Point Laboratory, September 1983 - June 1986.

Assistant Professor, University of Maryland, Center for Environmental and Estuarine Studies, Chesapeake Biological Laboratory, June 1981 - September 1983.

Assistant Professor, University of Miami, School of Marine and Atmospheric Science, June 1978 - June 1981.

Postdoctoral Fellow, University of Miami, School of Marine and Atmospheric Science, October 1976 - June 1978.

**Publications Last Three Years:**

**2006**

- Hood, R.R., X. Zhang, P.M. Glibert, D.K. Stoecker and M.R. Roman. 2006. Modeling the influence of nutrients, turbulence and grazing on *Pfiesteria* populations. *Harmful Algae* 5: 459-479.
- Kimmel, D.G., W.D. Miller and M.R. Roman. 2006. Regional scale climate forcing of mesozooplankton dynamics in Chesapeake Bay. *Estuaries and Coasts* 29: 375-387.
- Kimmel, D.G., M.R. Roman, X. Zhang. 2006. Spatial and temporal variability in factors affecting mesozooplankton dynamics in Chesapeake Bay: Evidence from biomass size spectra. *Limnology and Oceanography* 51: 131-141.
- Richardson, T.L., G.A. Jackson, H.W. Ducklow and M.R. Roman. 2006. Spatial and seasonal patterns of carbon cycling through planktonic food-webs of the Arabian Sea determined by inverse analysis. *Deep-Sea Res.* 53:555-575
- Roman, M.R., M. Reaugh, X. Zhang. 2006. Ingestion of the dinoflagellate *Pfiesteria piscicida* by the calanoid copepod, *Acartia tonsa*. *Harmful Algae* 5: 435-441.
- Vanderploeg, H.A. and M.R. Roman. 2006. Analysis of zooplankton distributions using optical zooplankton counters. *Journal of Geophysical Research* 111: C05S11.

Zhang, X., M. Roman, D. Kimmel, W. Boicourt. 2006. Spatial variability in plankton biomass and hydrographic variables along an axial transect in Chesapeake Bay. *Journal Geophysical Research* 111: CO5S11

#### **2007**

Reaugh, M.L., M. R. Roman and D. K. Stoecker. 2007. Changes in plankton community structure and function in response to variable freshwater flow in two tributaries of the Chesapeake Bay. *Estuaries and Coasts* 30: 430-417.

#### **2008**

Miller, C.A. and M. R. Roman. 2008. Effects of food nitrogen content and concentration on the forms of nitrogen excreted by the calanoid copepod, *Acartia tonsa*. *Journal of Experimental Marine Biology and Ecology* 359: 11-17.

#### **Five Other Relevant Publications:**

Roman, M. R. and W. C. Boicourt. 1999. Dispersion and recruitment of crab larvae in the Chesapeake Bay plume: physical and biological controls. *Estuaries* 22 (3): 563-574.

Roman, M. R., D.V. Holliday, L.P. Sanford. 2001. Temporal and spatial patterns of zooplankton in the Chesapeake Bay turbidity maximum. *Marine Ecology Progress Series* 213: 215-227.

Roman, M.R., H.A. Adolf, M.R. Landry, L.P. Madin, D.K. Steinberg and X. Zhang. 2002. Estimates of oceanic mesozooplankton production: A comparison using the Bermuda and Hawaii time-series data. *Deep Sea Research II* 49:175-192

Roman, M.R., J.E. Adolf, J. Bichy, W.C. Boicourt, L.W. Harding, E.D. Houde, S. Jung, D.G. Kimmel, W.D. Miller and X. Zhang. 2005. Chesapeake Bay plankton and fish abundance enhanced by Hurricane Isabel. *EOS* 86: 261-265.

Roman, M., X. Zhang, C. McGilliard and W. Boicourt. 2005. Seasonal and annual variability in the spatial patterns of plankton biomass in Chesapeake Bay. *Limnology and Oceanography* 50: 394-406.

#### **Synergistic Activities:**

National Academy of Sciences Committee to Review Large Oceanographic Programs; Chair - Steering Committee National Science Foundation program in Coastal Ocean Processes (CoOP); Interim Steering Committee, National Science Foundation program on Global Ecosystem Dynamics (GLOBEC) ; Executive Committee, Global Ocean Flux Study of Equatorial Pacific Ocean (NSF); Chair -National Academy of Sciences Panel to Review Proposed Research and Monitoring in the Gulf of Alaska in the wake of the Exxon Valdez Oil Spill; Co-Chair National Science Foundation Committee of Visitors; Editorial Board – *Limnology and Oceanography*; U.S. Committee for Census of Marine Life (CoML); Vice-Chair Steering Committee for Integrated Marine Biogeochemistry and Ecosystem Research (IMBER).

#### **Collaborators and Other Affiliations:**

*Advisors:* K. Tenore (Ph.D.), M. Reeve (Post-Doc)

*Students:* D. Dossman, M. Gottfried, M. Incze, S. Liborel-Houde, S. Lloyd, C. Miller, J. O'Neil, M. Reaugh, M. A. Russell, J. White, L. Wootton, J. Urban-Rich

*Post-Docs:* H. Dam, D. Kimmel, J. Pierson, P. Rublee, X. Zhang

*Colleagues:* S. Brandt, J. Cowan, H. Ducklow, V. Holliday, G. Jackson, D. Kimmel, S. Ludsin, D. Mason, T. Richardson, X. Zhang.