CURRICULUM VITAE

Michael Randall Roman

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DEGREES AND ADVANCED STUDY:
B. A Lake Forest College (Biology), 1971
M. A. The City College (Biology), 1973
Ph.D. University of New Hampshire (Zoology), 1976

POSITIONS HELD:

Director, Horn Point Laboratory, University of Maryland Center for Environmental Science, October 2001.

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

Acting Director, University of Maryland Center for Environmental and Estuarine Studies, Horn Point Environmental Laboratory, April 1, 1989 - October 31, 1990.

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

Assistant Professor, University of Maryland, Center for Environmental and Estuarine Studies, Horn Point Environmental Laboratories, 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.

Research Assistant, Woods Hole Oceanographic Institution, October 1975 – February 1976.

Guest Student Investigator, Woods Hole Oceanographic Institution, September 1974 - October 1976.

GRADUATE COURSES TAUGHT:

Univ. of Miami:
Biological Oceanography
Marine Population Ecology
Seminar on Topics in Marine Ecology

UMCES:
Plankton Dynamics
Seminar on Topics in Marine Ecology
Seminar on Interdisciplinary Coastal Oceanography
Seminar on Carbon Cycling in the Ocean
Seminar on Estuarine Turbidity Maximum Zones
Seminar on BP Oil Spill
Zooplankton Ecology
Seminar on Using Chesapeake Bay Time Series Data

STUDENTS ADVISED:

Univ. of Miami:

Daniel Dossman, M.S., 1979 "Nutritional Relationships Between a Harpactacoid Copepod and Mangrove Detritus."

Mark Gottfried, M.S., 1981 "The Ingestion and Assimilation of Coral Mucus Detritus by Reef Zooplankton."

Michael Incze, M.S., 1981 "Episodic Detrital Organic Carbon Export from South Biscayne Bay, Florida."

Mary Alice Russell, M.S., 1981 "The Ingestion of Coral Mucus Particles by Gorgonian Soft Corals."

UMCES:

Sarah Libourel‐Houde, M.S., 1985 "The Effect of Food Quality on the Functional Ingestion Response of the Copepod, Acartia tonsa."

Jacques White. Ph.D., 1991 "Seasonal Study of Zooplankton Dynamics in the Mesohaline Chesapeake Bay."

Carolyn Miller, Ph.D., 1992 "Effects of Food Quality and Quantity on Nitrogen Excretion by the Copepod, Acartia tonsa."

Steve Jameson, Ph.D., 1995 "Morphometric Analysis of the Poritidae (Anthozoa:Scleractinia) off Belize."

Judy O"Neil, Ph.D., 1995 "Interaction of Pelagic Harpacticoid Copepods and the Colonial Marine Cyanobacterium Trichodesmium spp."

Louise Wooton, Ph.D., 1996 "Patterns of Protein and Energy Availability in Detrital Substrates as a Function of Source and Degree of Degradation."

Juanita Urban, Ph.D., 1997 "The Role of Zooplankton Fecal Pellets in Carbon Flux."

Matt Reaugh, M.S. 2005 "The effects of fresh water flow and grazing on plankton community structure in Chesapeake Bay tributaries."

Scott Lloyd, Ph.D. 2006 "Zooplankton ecology in the Chesapeake Bay estuarine turbidity maximum,with special emphasis on the calanoid copepod, Eurytemora affinis."

Allyson Barba, M.S. 2015 "

POST‐DOCS ADVISED:
Parke Rublee, Hans Dam, Xinsheng Zhang, Dave Kimmel, Jamie Pierson

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), President of The Oceanography Society 2011-2012, Steering Committee Ocean Carbon and Biogeochemistry 2014-2016, Steering Committee NSF Planning Arctic- North Atlantic Research Program 2014-2015, Co-Chair 2nd International Ocean Research Conference Barcelona Spain 11/14.

PUBLICATIONS:

2015 K.K. Liu, K.C. Emeis, L.A. Levin, W. Naqvi, M.R. Roman. Preface — Biogeochemistry–ecosystem interaction on changing continental margins in the Anthropocene. J. of Mar. Sys. 141: 1-2.

2014 Zhang H, Mason D.M., Stow C.A., Adamack A.T., Brandt S.B., Zhang X., Kimmel D.G., Roman M.R., Boicourt W.C., Ludsin S.A. Impact of hypoxia on habitat quality of pelagic planktivorous fishes in the northern Gulf of Mexico. Mar. Ecol. Prog. Ser. 505:209-226.

2013 Elliott, D.T., J. J. Pierson, M. R. Roman. Predicting the effects of coastal hypoxia on vital rates of the planktonic copepod, *Acartia tonsa* Dana. PLOS One. 8(5): e63987. doi:10.1371/journal.pone.0063987

Elliott, D.T., J. J. Pierson, M. R. Roman. Copepods and hypoxia in Chesapeake Bay: Abundance, vertical position, and non-predatory mortality. Jour. Plankton Res. 1-8:doi:10.1093/plankt/fbt049.

Lloyd, S.S., D. T.E. Elliott and M.R. Roman. Egg production by the copepod, *Eurytemora affinis*, in Chesapeake Bay turbidity maximum regions. Jour. Plankton Res. 35: 299-308.

2012 Devreker D., J.J. Pierson, S. Souissi, D.G. Kimmel, M.R. Roman. An experimental approach to estimate egg production and development rate of the calanoid copepod *Eurytemora affinis* in Chesapeake Bay, USA. Journal of Experimental Marine Biology and Ecology 416-417: 72–83

Elliott, D.T., J. J. Pierson, M. R. Roman. Relationship between environmental conditions and zooplankton community structure during summer hypoxia in the northern Gulf of Mexico. Jour. Plankton Res. 34: 602-613.

Kimmel, D.G., W.R. Boynton, M.R. Roman. Long-term decline in the calanoid copepod Acartia tonsa in central Chesapeake Bay, USA: An indirect effect of eutrophication? Estuarine, Coastal and Shelf Science 101: 76-85.

Mitra, S., D. G. Kimmel, J. Snyder, K. Scalise, B. D. McGlaughon, M. R. Roman, G. L. Jahn, J. J. Pierson, S. B. Brandt, J. P. Montoya, R. J. Rosenbauer, T. D. Lorenson, F. L. Wong, P. L. Campbell. Macondo-1 well oil-derived polycyclic aromatic hydrocarbons in mesozooplankton from the northern Gulf of Mexico. Geophysical Research Letters 39: L01605, doi:10.1029/2011GL049505.

Roman, M.R., J.J. Pierson, D.G. Kimmel, W.C. Boicourt, X. Zhang. Impacts of hypoxia on zooplankton spatial distributions in the northern Gulf of Mexico. Estuaries and Coasts, DOI 10.1007/s12237-012-9531

2010 Kimmel, D.G., W. Boicourt, J. Pierson, M. Roman, X. Zhang. The vertical distribution and diel variability of mesozooplankton biomass, abundance and size in response to hypoxia in the northern Gulf of Mexico, USA. Jour. Plankton Res. 10: 1093.

2009 Kimmel, D.G., W.D. Miller, L.W. Harding, E.D. Houde and M.R. Roman. Estuarine ecosystem response captured using synoptic climatology. Estuaries and Coasts 32: 403-409.

Kimmel, D.G., W.C. Boicourt, J.J. Pierson, M.R. Roman and X. Zhang. A comparison of the mesozooplankton response to hypoxia in Chesapeake Bay

and the northern Gulf of Mexico using biomass size spectrum. J. Exp Mar. Biol. Ecol. 381:S65-S73.

Ludsin, S.A., X. Zhang, S.B. Brandt, M.R. Roman, W.C. Boicourt, D.M. Mason and M. Constantini. Hypoxia-avoidance and planktivorous fish in Chesapeake Bay: Implications for food web interactions and fish recruitment. J. Exp Mar. Biol. Ecol. 381: S121-S131.

Pierson, J.J., M.R. Roman, D.G. Kimmel, W.C. Boicourt and X. Zhang. Quantifying changes in the vertical distribution of mesozooplankton in response to hypoxic bottom waters. J. Exp Mar. Biol. Ecol. 381: S74-S79.

Zhang, H., S.A. Ludsin, D.M. Mason, A.T. Adamack, S.B. Brandt, X. Zhang, D.G. Kimmel, M.R. Roman and W.C. Boicourt. Hypoxia-driven changes in the behavior and spatial distribution of pelagic fish and zooplankton in the northern Gulf of Mexico. J. Exp Mar. Biol. Ecol. 381: S80-S91.

2008 Miller, C.A. and M.R. Roman. Effects of food nitrogen content and concentration on the forms of nitrogen excreted by the calanoid copepod, *Acartia tonsa*. J. Exp. Mar. Biol. Ecol. 359: 11-17.

Janke, R.A., M.R. Roman and K.H. Brink. Coastal Ocean Processes Program: Advancing interdisciplinary research and technology development. Oceanography 12: 18-21.

2007 Reaugh, M.L., M. R. Roman and D. K. Stoecker. Changes in plankton community structure and function in response to variable freshwater flow in two tributaries of the Chesapeake Bay. Estuaries and Coasts. 30: 403-417.

2006 Hood, R.E., X. Zhang, P.M. Glibert, D.K. Stoecker and M.R. Roman. Modeling the influence of nutrients, turbulence and grazing on *Pfiesteria* populations. Harmful Algae 5:459-479.

Kimmel, D.G., M.R. Roman and X. Zhang. Spatial and temporal variability in factors affecting mesozooplankton dynamics in Chesapeake Bay: Evidence from biomass size spectra. Limnology and Oceanography 51:131-141.

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2005 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. Chesapeake Bay plankton and fish abundance enhanced by Hurricane Isabel. EOS 86:261-265.

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2004 Kimmel, D.G. and M.R. Roman. Long-term trends in mesozooplankton abundance and community composition in the Chesapeake Bay, USA: Influences of fresh water input. Marine Ecology Progress Series.267:71-83.

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2003 Valle-Levinson, A., C. Lascara, W.C. Boicourt and M. Roman. On the linkage among density, flow and bathymetry gradients at the entrance to the Chesapeake Bay. Estuaries 26: 1437-1449.

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

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2000 Bamstedt, U., D.J.Gifford, X.Irigoien, A.Atkisnson and M.Roman. Zooplankton Feeding. P 297-399, (In) ICES Zooplankton Methodology Manual. R. Harris, P.Wiebe, J.Lenz, H.R. Skoldal and M.Huntley (Eds). Academic Press,N.Y.684p.

Roman, M.R.,S. Smith, K. Wishner,X. Zhang and M. Gowing. Mesozooplankton production and grazing in the Arabian Sea. Deep Sea Research.47:1423-1450.

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1999 Roman, M.R. and W.C. Boicourt. Dispersion and recruitment of crab larvae in the Chesapeake Bay Plume: Physical and biological controls. Estuaries 22:563-574.

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1997 Landry, M.R., R.T .Barber, R.R. Bidagare, F. Chai, K.H. Coale, H.G. P.G.Verity, J.W.White. Iron and grazing constraints on primary production in the central equatorial Pacific: An EqPac synthesis. Limnol.Oceanogr.42:405-418.

Roman, M.R. and A.L. Gauzens. Copepod grazing in the equatorial Pacific.Limnol.Oceanogr.42:623-634.

1995 Caron,D.A., H.G.Dam, P.Kremer, E.J.Lessard, L.P.Madin, T.C. Malone, J.M.Napp ,E.R.Peele, M.R.Roman and M.J.Youngbluth. The contribution of microorganisms to particulate carbon and nitrogen in surface waters of the Sargasso Sea near Bermuda. Deep-Sea Res. 42:943-972.

Dam, H.G., M.R. Roman and M.J.Youngbluth. Downward export of respiratory carbon and dissolved inorganic nitrogen by diel-migrant mesozooplankton at the JGOFS time-series station. Deep-Sea Res. 42:1187-1197.

Dam, H.G., X. Zhang, M. Butler and M.R. Roman. Mesozooplankton grazing and metabolism on the equatorat140' W during the JGOFS EqPac study: implications for carbon and nitrogen fluxes. Deep-Sea Res.42:735-756.

Murray,J.W., R.T.Barber, M.R.Roman, M.Bacon and R.Feely. Physical and biological controls on carbon cycling in the equatorial Pacific: US JGOFS Eq Pac Process Study. Science 266:58-65.

O'Neil, J.M. and M.R. Roman. Grazing of the pelagic harpacticoid copepods *Marcosetella, Miracia* and *Oculasetella*, on the colonial cyanobacterium *Trichodesmium* spp. from the Caribbean. Hydrobiol. 292/293:235-240.

Roman, M.R., D.A.Caron, P.Kremer, E. J. Lessard, L.P.Madin, T.C. Malone, J.M.Napp, E.R.Lessard and M.J Youngbluth. Spatial and temporal changes in the partitioning of organic carbon in the plankton community of the Sargasso Sea off Bermuda. Deep-Sea Res.42:973-992.

Roman, M.R.,H.G. Dam, A.L. Gauzens and J.Urban-Rich. Mesozooplankton variability on the equator at 140W during the JGOFS Eq Pac study. Deep-Sea Res.42:673-694.

Tenore, K.R.+ 18co- authors including M.R .Roman. Fisheries and oceanography off Galicia, N.W.Spain(FOG): Mesoscale spatial and temporal changes in physical processes and resultant patterns of biological productivity. J.Geophys.Res.100:10943-10966.

White, J.R., M.R. Roman, H. Dam and X. Zhang. Latitudinal gradients in mesozooplankton biomass encountered in north-south transects across the equator at 140W during the JGOFS EqPac study. Deep-Sea Res.42:715-735.

Zhang, X., H.G. Dam, J.R. White and M. R. Roman. Latitudinal gradients in mesozooplankton grazing and metabolism along 140W during the JGOFS EqPac study. Deep-SeaRes.42:695-714.

1994 Purcell, J.E., J.R.White and M.R. Roman.Top-down and bottom-up effects on Acartia tonsa copepods in Chesapeake Bay. Limnol. Oceanogr.39:263 -278.

1993 Roman, M.R., H.G .Dam, A.L.Gauzens and J.M.Napp. Short-term changes in meso-zooplankton biomass and grazing in the Sargasso Sea off Bermuda. Deep-SeaRes.40:883-901.

Roman, M.R., A.L.Gauzens, K.Rhinehart and J.R.White. Effects of low oxygen waters on Chesapeake Bay zooplankton. Limnol. Oceanogr. 38:1603-1614.

1992 Glibert, P.M., C.A. Miller, C. Garside, M.R. Roman and G.B. McManus. NH4 regeneration and grazing: Interdependent processes in size fractionated 15 NH4 experiments. Mar.Ecol.Prog.Ser. 82:65-74.

Hawser, S.P., J.M. O'Neil, M.R. Roman and G.A. Codd. Toxicity of blooms of the cyanobacterium Trichodesmium to zooplankton. J.Appl. Phycol.4:79-86.

O'Neil, J.M. and M.R.Roman. Grazers and associated organisms of Trichodesmiump.61-73, In: Carpenter,E.J., D.G.Caponeand J.G. Rueter (eds.)Biology and Ecology of Diazotrophic Marine Organisms: Trichodesmium and Other Species. NATO ASI Series, Kluwer Acad. Publ.

White, J.R. and M.R.Roman. Egg production by the calanoid copepod Acartia tonsa in mesohaline Chesapeake Bay: the importance of food resources and temperature. Mar.Ecol.Prog.Ser. 86:239-249.

White, J.R. and M.R. Roman. Seasonal study of grazing by metazoan zooplankton in the mesohaline Chesapeake Bay. Mar. Ecol. Prog.Ser. 86:251-261.

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Glibert, P.M., C. Garside, J.S. Fuhrman and M.R. Roman. Time dependent changes of inorganic and organic nitrogen and NH4 regeneration in the plume of the Chesapeake Bay estuary, USA and its regulation by large heterotrophs. Limnol.Oceanogr. 36:895-909.

White, J.R. and M.R. Roman. Measurement of zooplankton grazing using particles labeled in light and dark with[methyl - 3H] methylamine hydrochloride. Mar. Ecol.Prog.Ser.71:45-52.

1990 Roman, M.R., M.J. Furnas and M.M. Mullin. Zooplankton abundance and grazing at Davies Reef, Great Barrier Reef, Australia.Mar.Biol. 105:73-82.

Valdes, L., M.R. Roman, M.Alvarez-Ossorio, A.L.Gauzens and A. Miranda. Zooplankton composition and distribution off the coast of Galicia, Spain. J. Plankton Res.12:629-643.

1988 Roman, M.R., H.W. Ducklow, J.A. Fuhrman, C. Garside, P.M. Glibert, T.C. Malone and G.B. McManus. Production, consumption and nutrient cycling in a laboratory mesocosm. Mar.Ecol.Prog.Ser. 42:39-52.

Roman, M.R., K.A. Ashton and A.L.Gauzens. Day/night differences in the grazing impact of marine copepods. Hydrobiologia.167/168:21-30.

1987 Boicourt,W.C., S.-Y. Chao, H.W. Ducklow, P.M. Glibert, T.C.Malone, M.R. Roman, L.P. Sanford, J.A. Fuhrman, C. Garside and R.W. Garvine. Physics and microbial ecology of a buoyant estuarine plume on the continental shelf. EOS68:666-668.

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Houde, S.E.L. and M.R. Roman. Effects of food quality on the functional ingestion response of the copepod, Acartia tonsa. Mar. Ecol. Prog.Ser.40:69-77.

1986 Roman, M.R., C.S. Yentsch, A.L. Gauzens and D.A. Phinney. Grazer control of the fine scale distribution of phytoplankton in warm-core Gulf Stream rings. J.Mar.Res.44:795-813.

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1984 Roman, M.R. Utilization of detritus by the copepod, Acartia tonsa. Limnol.Oceanogr.29:949-495.

Roman, M.R. Ingestion of detritus and microheterotrophs by pelagic marine zooplankton. Bull.Mar.Sci.35:477-494.

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1983 Roman, M.R. Nitrogenous nutrition of marine invertebrates. pp.347-384 (In) Nitrogen in the Marine Environment. E.J. Carpenter and D.G. Capone(eds.).AcademicPress,N.Y.900p.

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Gottfried, M. and M.R. Roman. The ingestion and incorporation of coral mucus detritus by reef zooplankton. Mar.Biol.72:211-218.

Incze, M.L. and M.R. Roman. Carbon production and export from Biscayne Bay, Florida.II. Episodic export of organic carbon. Est.Cstl. Mar.Sci.17:61-72.

1982 Roman, M.R. Zooplankton nutrition (In) Fish Ecology III Symposium. B.J. Rothschild and C.G. H. Rooth (convenors) pp.233-253.Univ.Miami Tech. Rept. 82008,392pp.

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1981 Roman, M.R. and P.A. Rublee. A method to determine in situ zooplankton grazing rates on natural particle assemblages. Mar.Biol. 65:303-309.

1980 Roman, M.R. Tidal resuspension in Buzzards Bay,Massachusetts.III. Seasonal cycles of nitrogen and carbon:nitrogen ratios in the seston and zooplankton. Est.andCstl.Mar.Sci.11:9-16.

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1978 Roman, M.R. Tidal resuspension in Buzzards Bay, Massachusetts: II. Seasonal changes in the size distribution of chlorophyll-a particle concentration, carbon, and nitrogen in resuspended particulate matter. Est. and Cstl. Mar. Sci. 6:37-46.

Roman, M.R.and K.R.Tenore. Tidal resuspension in Buzzards Bay, Massachusetts:I. Seasonal changes in the resuspension of organic carbon and chlorophyll-a. Est.and Cstl. Mar. Sci. 6:37-46.

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1977 Roman, M.R. Feeding of the copepod, *Acartia tonsa*, on the diatom, *Nitzchia closterium*, and brown algae, Fucus-detritus. Mar. Biol. 42:149-155.