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 – November 2022.

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

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.

SYNERGISTIC ACTIVITIES:

Chair of the Scientific Steering Committee of the NSF/NOAA/ONR Coastal Oceanographic Processes Program (CoOP)- this program planned and helped implement a series of interagency coastal research programs.

Chair of the National Academy of Sciences Committee planning long-term research in the Gulf of Alaska after the Exon Valdez oil spill- this committee developed a plan for a long-term monitoring program in the Gulf of Alaska.

Member of the National Academy of Sciences Committee to review the impact of major programs on ocean research- this committee reviewed the implementation and products from a number of US large oceanographic research programs.

Twice served as Co-chair of the Committee of Visitors for NSF Ocean Sciences- this committee reviews the funding portfolio of the NSF Ocean Sciences Division.

Vice-Chair of the IGBP Program on Integrated Marine Biogeochemistry and Ecosystem Research (IMBER)- see website for description: https://imber.info/

U.S. Committee for Census of Marine Life- http://www.coml.org/about-census/

Steering Committee – NSF/NASA Ocean Carbon and Biogeochemistry (OCB); https://www.us-ocb.org/

Steering Committee NSF Planning Arctic- North Atlantic Research Program

Co-Chair 2nd International Ocean Future Research Conference Barcelona Spain 11/2014.

Steering Committee- UNESCO Committee on Global Ocean Oxygen Network; 2016-*present*; see - https://en.unesco.org/go2ne

Led a NOAA review of: Ecosystem-Based Management: An analysis of national needs and opportunities. 2019-2021

Steering Committee of NOAA Cooperative Institute of North Atlantic Region (CINAR) 2010-*present*; https://website.whoi.edu/cinar/

Trustee of the Consortium of Ocean Leadership 2018-*present*; https://oceanleadership.org/

Roman served as President of the Oceanography Society 2011-2012.

Advisory Board of the Ferry Cove Oyster Hatchery, Tilghman Island, MD. 2021-*present.*

PUBLICATIONS:

2022 Pierson, J.J., J. M. Testa and M. R. Roman. Copepod habitat suitability estimates vary among oxygen metrics in Chesapeake Bay. ICES Journal of Marine Science, DOI: 10.1093/icesjms/fsac019.

Roman, M.R. and J. J. Pierson. Interactive effects of increasing temperature and decreasing oxygen on coastal copepods. Biological Bulletin, *https://doi.org/10.1086/722111*

A. Woods, A. L. Moran, D. Atkinson, A. Audzijonyte, M. Berenbrink, F. O. Borges, K. G. Burnett, L. E. Burnett, C. J. Coates, R. Collin, E. M. Costa-Paiva, M. I. Duncan, R. Ern, E. M. J. Laetz, L. A. Levin, M. Lindmark, N. M. Lucey, L. R. McCormick, J. J. Pierson, R. Rosa, M. R. Roman, E. Sampaio, P. M. Schulte, E. A. Sperling, A. Walczyńska, W. C. E. P. Verberk. Integrative approaches to understanding organismal responses to aquatic deoxygenation. Biological Bulletin, *In Press.*

2021 Grégoire, M., V. Garçon, H. Garcia, D. Breitburg, K. Isensee, A. Oschlies, M. Telszewski, A. Barth, H. Bittig, J. Carstensen, T. Carval, F. Chai, F. Chavez, D. Conley, L. Coppola, S. Crowe, K. Currie, M. Dai, B. Delflandre, B. Dewitte, R. Diaz, E. Garcia-Robledo, D. Gilbert, A. Giorgetti, R. Glud, D. Gutierrez, S. Hosoda, M. Ishii, G. Jacinto, C. Langdon, S.K. Lauvset, L.A. Levin, K.E.Limburg, H. Mertens, I. Montes, W. Naqvi, A. Paulmier, B. Pfeil, G. Pitcher, S. Pouliquen, N. Rabalais, C. Rabouille, V. Recape, M. Roman, K. Rose, D. Rudnick, J. Rummer, C. Schmechtig, S. Schmidtko, B. Seibel, C. Slomp, U.R. Sumalia, T. Tanhua, V. Thierry, H. Uchida, R. Wanninkhof, and M. Yasuhara. A global ocean oxygen database and atlas for assessing and predicting deoxygenation and ocean

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West, A.O., L. Wainger, K. Rose, M.R. Roman, T. Miller, F. Moser, W. Dennison and F. Martinez. Ecosystem-Based Management: An analysis of national needs and opportunities. NOAA Technical Memorandum NOS NCCOS 288: Silver Spring, MD.

2020 Roman, M.R. & J.J. Pierson. Chapter 8.7: Estuarine and Coastal Plankton. In: Ocean deoxygenation: everyone's problem. IUCN Report https://doi.org/10.2305/IUCN.CH.2019.14.en

2019 Glaspie, C. N., M. Clouse, K. Huebert, S. A. Ludsin, D. M. Mason, J. J. Pierson, M. R. Roman, and S. B. Brandt. Fish diet shifts associated with the northern Gulf of Mexico hypoxic Zone. Estuaries and Coasts. doi:10.1007/s12237-019-00626-x

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2018 Breitburg, D., Levin, L.A., Oschlies, A., Grégoire, M., Chavez, F.P., Conley, D.J., Garçon, V., Gilbert, D., Gutiérrez, D., Isensee, K., Jacinto, G.S., Limburg, K.E., Montes, I., Naqvi, S.W.A., Pitcher, G.C., Rabalais, N.N., Roman, M.R., Rose, K.A., Seibel, B.A., Telszewski, M., Yasuhara, M., Zhang, J. Declining oxygen in the global ocean and coastal waters. Science. (80) 359:7240. doi: 10.1126/science.aam7240

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2017 Pierson, J.J., Slater, W.C.L., Elliott, D., Roman, M.R. Synergistic effects of seasonal deoxygenation and temperature truncate copepod vertical migration and distribution. Marine Ecology Progress Series. 575, 57-68.

2016 Pierson, J. J., D. G. Kimmel & M. R. Roman. Temperature impacts on *Eurytemora* size and vital rates in the upper Chesapeake Bay in winter. Estuaries and Coasts. 39 (4): 1122–1132.

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.

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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

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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.

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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.

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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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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.

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Roman, M.R., H.G. Dam, R. LeBorgne and X. Zhang. Latitudinal comparisons of Equatorial Pacific Ocean zooplankton. The Equatorial Pacific JGOFS Synthesis 49(13-14): 2695-2713.

Roman, M.R. et al. A Century of Ecosystem Science: Planning Long-Term Research in the Gulf of Alaska. National Academy Press, Washington, DC.

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

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.

Zhang, X., M. Roman, A. Sanford, H. Adolf, C. Lascara and R. Burgett. Can an optical plankton counter produce reasonable estimates of zooplankton abundance and biovolume in water with high detritus? J. Plankton Res. 22:137 -150.

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.

1998 Fine, R.,Cox,C., Curry,W., Druffel, E.,Fox,J., Lukas, R.,Murray,J., Opdyke, N.,Powell,T.,Roman,M..Royer,T.,Sharpiro,L.,Thompson, A.,Weaver, A. Global Ocean Science: Toward and Integrated Approach. National Academy Press, 165pp.

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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.

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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.

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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.

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