

Certification

I have reviewed this Curriculum Vitae and hereby certify that it is a current and accurate statement of my professional record

A handwritten signature in black ink, appearing to read "Raleigh R. Hood". The signature is stylized with large, sweeping loops for the first and last names, and a more compact, cursive script for the middle initial "R.". The ink is dark and the background is white.

Raleigh R. Hood

February 10, 2026

CURRICULUM VITAE

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I. EDUCATION

1983 B.Sc. University of Washington, Oceanography.

1990 Ph.D. University of California, San Diego, Scripps Institution of Oceanography.

II. PROFESSIONAL BACKGROUND

- 1990-91 Post-doctoral Investigator, College of Oceanography, Oregon State University, Corvallis, Oregon.
- 1991-92 Post-doctoral Investigator, Division of Marine Biology and Fisheries, Rosenstiel School of Marine and Atmospheric Science, University of Miami, Miami, Florida.
- 1992-95 Research Associate, Division of Meteorology and Physical Oceanography, Rosenstiel School of Marine and Atmospheric Science, University of Miami, Miami, Florida.
- 1995-01 Assistant Professor, University of Maryland, Center for Environmental Science, Horn Point Laboratory, Cambridge Maryland.
- 2001-07 Associate Professor, University of Maryland, Center for Environmental Science, Horn Point Laboratory, Cambridge Maryland.
- 2007-present Professor, University of Maryland, Center for Environmental Science, Horn Point Laboratory, Cambridge Maryland.

Awards and Special Recognition

- 1983 B.Sc. *cum laude*, University of Washington
- 1984 ARCS Scholarship, Scripps Institution of Oceanography
- 2000 Marine Estuarine and Environmental Sciences Graduate Education Award
- 2012 Frohlich Fellow, Commonwealth Scientific and Industrial Research Organization, Australia

III. RESEARCH

A. Areas of professional expertise

Biological Oceanography and Biogeochemical Modeling.

B. Publications

1. Papers, Chapters, Edited Books and Edited Special Issues in Refereed Journals and Refereed Books (including papers that have been accepted or in press)

- Nishitani, L., **R. Hood**, J. Wakeman, and K. K. Chew (1984) Potential importance of an endoparasite of Gonyaulax in paralytic shellfish poisoning outbreaks. In: *Seafood Tns*, Edward P. Ragelis (ed.), American Chemical Society, pp. 139-149.
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- Olson, D. B., and **R. R. Hood** (1994) Modelling pelagic biogeography. *Progress in Oceanography*, **34**: 161-205.
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- Hood, R. R.**, H. V. Wang, J. E. Purcell, E. D. Houde, and L. W. Harding (1999) Modeling Particles and pelagic organisms in Chesapeake Bay: Convergent features control plankton distributions. *Journal of Geophysical Research*, **104**: 1223-1243.
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- Hood, R. R.**, A. F. Michaels, and D. G. Capone (2000) Answers sought to the enigma of marine nitrogen fixation. *EOS*, **81**: 133, 138-139.
- Hood, R. R.**, N. R. Bates, D. G. Capone, and D. B. Olson (2001) Modeling the effect of nitrogen fixation on carbon and nitrogen fluxes at BATS. *Deep-Sea Research*, 2nd Special on the U.S. JGOFS Time-Series Stations, **48**: 1609-1648.
- McCreary, J. P., K. H. Kohler, **R. R. Hood**, S. Smith, J. Kindle, A. Fisher and R. A. Weller (2001) Influences of diurnal and intraseasonal forcing on mixed-layer and biological variability in the central Arabian Sea. *Journal of Geophysical Research*, **106**: 7139-7155.
- Matanoski, J. C., **R. R. Hood**, and J. E. Purcell (2001) The effect of prey on swimming patterns of the scyphomedusa *Chrysaora quinquecirrha* and implications for feeding efficiency. *Marine Biology*, **139**: 191-200.

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- Hood, R. R.**, A. Subramaniam, L. R. May, E. J. Carpenter, and D. G. Capone (2002) Remote estimation of nitrogen fixation by *Trichodesmium*. *Deep-Sea Research*, 1st Special Issue on the U.S. JGOFS Synthesis and Modeling Project, **49**: 123-147.
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- Hood, R. R.**, K. F. Drinkwater, and N. Mihalopoulos (2013) Introduction: Large-scale regional comparisons of marine biogeochemistry and ecosystem processes – Research approaches and results. *Journal of Marine Systems*, 109-110: 1-3.
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2. Submitted Papers and Other Submitted Publications.

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Hood, R. R., Gauns, M., Honda, M., Marsac, F., and Millette, N. (2026) Productivity, elemental cycling and plankton food webs supporting larval tuna in the Argo Basin spawning region off northwest Australia: BLOOFINZ/INDITUN Programs (Volume 8). *Deep-Sea Research II Virtual Special Issue*, Submitted/Manuscript Submission Deadline 9-15-25.

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3. Other Publications (including edited books, monographs and special issues).

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C. Contracts and Grants

1. Awarded (past)

“Individual based modeling of particles and pelagic organisms in Chesapeake Bay”, National Science Foundation CAREER grant, 8/1996-8/00, no cost extended through 8/01, \$283,298, R. R. Hood (PI).

“Modeling N₂ and CO₂ fixation by the oceanic diazotrophic cyanobacterium, *Trichodesmium*”, NASA, 10/97-9/00, no cost extended through 9/01, \$141,103, R. R. Hood (UMCES PI).

“Remote observations and modeling of phytoplankton in Chesapeake Bay”, NASA, 9/97-8/2000, renewed for 1 year, through 9/2001, \$602,445, L. W. Harding (PI), R. R. Hood (co-PI).

“Assimilation modeling of planktonic processes in Chesapeake Bay with aircraft and satellite ocean color data”, Maryland Sea Grant, 2/98-1/2000, \$108,812, L. W. Harding (PI) and R. R. Hood (co-PI).

“Toward a mechanistic understanding of outbreaks of *Pfiesteria* and related dinoflagellates”, ECOHAB (Interagency), 9/98-8/2003, \$80,000 (R. Hoods component), R. R. Hood (co-PI).

- “Development, validation and improvement of a coupled biological/chemical/physical model for the Arabian Sea”, NSF, 3/99-2/2003, total multi-institution award \$565,000, R. R. Hood (HPL PI and project leader).
- “Modeling the effect of changes in turbidity on light available for submerged aquatic vegetation”, The Cooperative Institute for Estuarine and Environmental Technology (CICEET), 8/1999 – 7/2001, \$169,524, R. Newell (PI), E. Koch and R. R. Hood (co-PIs).
- “A community model for Chesapeake Bay”, CICEET, 9/01/2002 – 9/01/2004, \$196,073, M. Li (PI), R. R. Hood and B. Boicourt (Co-PIs).
- “How do estuarine turbidity maxima entrap particles, retain zooplankton, and promote recruitment of fish?”, NSF, 11/1/2000 – 11/1/2004, \$1,322,141, UMCES Component, E. D. Houde (PI), R. R. Hood et al. (Co-PIs).
- “Factors affecting, and impact of, diazotrophic microorganisms in the western equatorial Atlantic Ocean”, NSF Biocomplexity Phase I, 1/1/2000 – 1/1/2005, \$282,000, HPL Component, R. R. Hood (UMCES PI).
- “A partnership proposal: technology transfer of a larval dispersal model”, NOAA, 10/1/04 – 10/1/05, \$49,990, E. North (PI), R. R. Hood et al. (co-PIs).
- “Do oyster filtration and wave attenuation associated with oyster reefs and breakwaters improve seagrass habitat?”, Maryland Sea Grant, 2/1/2003 – 8/1/2006, no-cost extended to 8/1/2006, \$191,435, R. R. Hood (PI).
- “Modeling dispersal of *Crassostrea ariakensis* oyster larvae in Chesapeake Bay”, MD DNR, 02/23/04 – 9/1/05, no-cost ext. to 7/1/2006, \$99,885, E. North (PI), R. R. Hood, T. Gross and M. Li (Co-PIs).
- “Modelling oysters: quantifying ecosystem services and enhancing restoration strategies”, Campbell Foundation, 5/1/04 – 9/1/05, no-cost ext. to 7/1/2006, \$43,078, E. North (PI), R. R. Hood (co-PI).
- “Quantification and modeling of DOC and DON release in marine systems: a study of increasing trophic complexity.”, NSF, 9/1/2002 – 9/1/2007, \$170,667 (UMCES Component), R. R. Hood (UMCES PI).
- “Biogeochemical observations and modeling in the Indian Ocean: Assessing the state of our understanding and planning for the future.” NSF OISE, 8/1/2005 – 8/1/06, o-cost ext to 8/1/07, \$60,000, R. R. Hood (PI).
- “Development of an operational model for predicting the near real time distribution and abundance of the scyphomedusa, *Chrysaora quinquecirrha*, in Chesapeake Bay”, NOAA, 9/1/04 – 9/1/07, no-cost extension to 9/1/08, \$178,200, R. R. Hood (UMCES PI).
- “An adaptive food web model for the epipelagic and mesopelagic”, NSF (subcontract from LSU), 11/1/06 – 11/1/07, no cost ext. to 11/1/08, \$95,500, R. Hood (UMCES PI).
- “Assessing the impact and variability of coccolithophorid blooms in the ocean carbon cycle. NOAA, 2/1/05 – 7/1/09, no cost ext. to 7/1/10, \$258,531 (UMCES component), R. R. Hood (UMCES PI).
- “Dynamic stability and particle transformations: Tracing pathways of production in estuarine turbidity maxima”, NSF, 10/1/05 – 10/1/09, no cost ext. to 10/1/10, \$306,216 (Hood’s component), E. Houde (PI), R. R. Hood et al. (Co-PIs).

“Development and implementation of an operational harmful algal bloom prediction system for Chesapeake Bay”, NOAA, 8/1/05 – 8/1/10, no cost ext. to 8/1/11, \$360,814 (UMCES component), R. R. Hood (UMCES PI).

“Collaborative Research: Impacts of ocean physics on the Arabian Sea oxygen minimum zone”, NSF, \$75,776 (UMCES component), 10/1/07-10/1/10, no cost ext. to 10/1/11, R. R. Hood (UMCES PI).

“A super-regional testbed to improve models of environmental processes on the U.S. Atlantic and Gulf of Mexico coasts”, NOAA, \$72,310 (UMCES component), R. R. Hood (UMCES PI).

“UMCES contribution to the estuarine hypoxia component of the US IOOS coastal modeling testbed”, NOAA, \$40,000 (UMCES component), R. R. Hood (UMCES PI).

“CRC/CCMP Program Manager”, NOAA, \$29,438, 6/1/12-6/1/13, R. R. Hood (PI).

“CRC/CCMP Program Manager”, NOAA, \$17,411, 6/1/13-6/1/14, R. R. Hood (PI).

“Collaborative Research: Amazon influences on the Atlantic: CarbOn export from Nitrogen fixation by DiAtom Symbiosis (ANACONDAS)”, NSF, \$446,727 (UMCES component), 10/1/09-10/1/12, no-cost extended to 10/1/14, V. J. Coles and R. R. Hood (UMCES PIs).

“ROCA: River-Ocean Continuum of the Amazon”, Moore Foundation, \$275,164 (UMCES component), 1/8/10-7/8/12, no-cost extended to 7/8/14, V. J. Coles and R. R. Hood (UMCES PIs).

“CRC/CCMP Program Manager”, NOAA, \$17,411, 6/1/14-6/1/15, R. R. Hood (PI).

“Transitioning an estuarine hypoxia model to operations via a COMT in Chesapeake ”, NOAA, \$118,005 (UMCES component), 9/1/13 – 9/1/15, R. R. Hood (UMCES PI).

“Comparison of Shallow-water Models for Use in Supporting Chesapeake Bay Management Decision-Making”, EPA, \$19,685 (UMCES component), 7/1/14 – 7/1/16, no-cost extended to 7/1/17, R. R. Hood (UMCES PI).

“Chesapeake Bay National Estuarine Reserves: An integrated system of sentinel sites to understand baywide climate impacts for stakeholders”, NOAA/CINAR, \$498,999 (UMCES), 7/1/14 – 7/1/16, no-cost extended to 7/1/17, R. R. Hood (UMCES PI).

“Tidal wetlands as sources and sinks of carbon in a changing world: Remote sensing, measurements and modeling of wetland-ocean-atmosphere interactions”, NASA, \$252,945 (UMCES), 1/1/14-1/1/17, no-cost extended to 1/1/18, R. R. Hood (UMCES PI).

“Scientific imperatives for a coordinated US investigation of the Indian Ocean, 2016-2020 and beyond”, OCB, \$27,750, 6/1/17.

“Scientific imperatives for a coordinated US investigation of the Indian Ocean, 2016-2020 and beyond”, US CLIVAR, \$20,511, 6/1/17.

“Scientific imperatives for a coordinated US investigation of the Indian Ocean, 2016-2020 and beyond”, Indo-US Science and Technology Forum, \$19,260, 6/1/17.

“Transitioning an estuarine hypoxia model to operations via a COMT in Chesapeake ”, NOAA, \$149,916 (UMCES component), 9/1/15 – 9/1/18, R. R. Hood (UMCES PI).

“Chesapeake Bay Program modeling beyond 2018: A proactive visioning workshop”, EPA STAC, \$10,000, 6/1/17 – 6/1/18, R. R. Hood (PI).

“CRC/CCMP Program Manager”, NOAA, \$14,214, 6/1/15-6/1/16, R. R. Hood (PI).

“CRC/CCMP Program Manager”, NOAA, \$14,214, 6/1/16-6/1/17, R. R. Hood (PI).

“CRC/CCMP Program Manager”, NOAA, \$14,214, 6/1/17-6/1/18, R. R. Hood (PI).

“CRC/CCMP Program Manager”, NOAA, \$14,214, 6/1/18-6/1/19, R. R. Hood (PI).

“CRC/CCMP Program Manager”, NOAA, \$14,214, 6/1/19-6/1/20, R. R. Hood (PI).

“CRC/CCMP Program Manager”, NOAA, \$31,442, 9/1/20-9/1/22, R. R. Hood (PI).

“Data-intensive analysis and modeling for socio-environmental models in the Chesapeake Watershed”, SESYNC, 1 year graduate student support (equivalent to \$23,501), 8/1/17 – 8/1/19, R. R. Hood (PI).

“Collaborative Research: Ecosystems on the edge: Tidal Wetland-estuary margins as buffers, reactors, and transformers of organic C and N”, NSF/DEB, \$341,276, 3/1/16 – 3/1/19, no-cost extended to 3/1/21, R. R. Hood (UMCES PI).

“Ecological and sociodemographic determinants and impacts of urbanization and restoration on intertwined urban-wetland-estuarine systems”, NASA IDS, \$353,131, 5/1/17 – 5/1/20, no-cost extended to 5/1/22, R. R. Hood (UMCES PI).

“Coastal SEES Collaborative Research: Integrating stakeholder objectives with natural system models to promote sustainable natural resource policy”, NSF, \$1,406,135 (UMCES total), 1/1/15 – 1/1/20, no-cost extended to 1/1/22, R. R. Hood (UMCES co-PI).

“Impacts of COVID-19 pandemic on NASA Interdisciplinary Research: Ecological and sociodemographic determinants and impacts of urbanization and restoration on intertwined urban-wetland-estuarine systems”, NASA IDS, \$64,631, 7/19/21 – 7/19/22, no-cost extended to 7/19/23, R. R. Hood (UMCES PI).

“CRC/CCMP Program Manager”, NOAA, \$31,442, 9/1/22-9/1/24, R. R. Hood

“Chesapeake Bay Environmental Forecasting System: Accelerating the Transition of HAB and Pathogen Models from Research to Operations”, NOAA/COMT, \$181,872, 9/1/21-9/1/24, no-cost extended to 9/1/25, R. R. Hood (UMCES PI).

“CRC/CCMP Program Manager”, NOAA, \$31,442, 9/1/24-9/1/26, R. R. Hood (PI).

2. Awarded (current)

“CNH2-L: Modeling the Dynamics of Human and Estuarine Systems with Regulatory Feedbacks”, NSF CNH2, \$1,436,438, 9/1/20 - 9/1/24, no-cost extended to 9/1/26, R. R. Hood (PI).

“CRC/CCMP Program Manager”, NOAA, \$31,442, 10/1/25-8/1/28, R. R. Hood (PI).

“Wet Carbon Monitoring and Accounting System for Urban Coastlines”, NASA, \$149,932, 2/1/23-2/1/26, R. R. Hood (UMCES PI).

“Leveraging the Power of Big Data to Model Landscape-Scale Metabolism in Chesapeake Bay”, Merrill Foundation, \$150,000, 9/1/24-9/1/26, R. R. Hood (UMCES PI).

“Challenges and Opportunities in Operationalizing Coupled Human and Natural Systems Research in the Chesapeake Bay Watershed”, STAC State of the Science Workshop Proposal, \$10,000, 3/1/25 – 2/28/26, R. R. Hood (UMCES co-PI).

3. Pending

D. Seminars, Presentations, Posters and Websites

1. Invited Seminars and Papers

Hood, R. R. (1996) Modeling the seasonal mixed layer and biological production cycles in the North Atlantic ocean. Chesapeake Biological Laboratory, May 8, 1996.

Hood, R. R., (1997) Modeling seasonal biogeochemical cycles in the North Atlantic ocean. Old Dominion University, April 14, 1997.

Hood, R. R. (1998) Individual based modeling of particles and pelagic organisms in Chesapeake Bay. University of Maryland Center for Environmental Science, Appalachian Laboratory, April 20, 1998.

Hood, R. R. (1998) Individual based modeling of particles and pelagic organisms in Chesapeake Bay. University of Delaware, College of Marine Studies, May 15, 1998.

Hood, R. R. (1998) The Chesapeake Bay: Physical, Chemical and Biological Cycles. In: The Oceans: Society and science. A public lectures series, NASA Goddard Space Flight Center.

Hood, R. R. (1999) Modeling Biogeochemical and N₂ Fixation Cycles at BATS. U. S. JGOFS Steering Committee Meeting, Boulder Colorado, March 24, 1999.

Hood, R. R. (2000) Probing the Enigma of Marine Nitrogen Fixation. Old Dominion University, Norfolk Virginia, October 26, 2000.

Hood, R. R. (2002) Modeling Trichodesmium and nitrogen fixation in the Atlantic, Lamont-Doherty Geological Observatory, Palisades New York, June 2002.

Hood, R. R. (2002) Recent advances and future challenges in open ocean modeling. U.S. JGOFS Ocean Time-Series Summit, Vancouver BC, 9-12 April.

Hood, R. R. (2003) Modeling Trichodesmium and nitrogen fixation in the Atlantic, University of Hawaii, Honolulu HI, March 20, 2003.

- Hood, R. R.** (2003) Modeling biogeochemical variability in the Arabian Sea: A story about great progress and challenges that remain. University of Hawaii, Honolulu HI, June, 2003.
- Hood, R. R.** (2003) Modeling biogeochemical variability in the Arabian Sea: A story about physical infidelity and its biological consequences, University of Maryland Center for Environmental Science, HPL, Cambridge MD, November, 2003.
- Hood, R. R.** (2004) Modeling the impact of Iron and phosphorus limitation on *Trichodesmium* growth and N₂-fixation in the Atlantic. University of Maryland, ESSIC, College Park MD, March 8, 2004.
- Hood, R. R.** and V. J. Coles (2004) Modeling the impact of Iron and phosphorus limitation on *Trichodesmium* growth and N₂-fixation in the Atlantic. Scripps Institution of Oceanography, San Diego, CA, July 24, 2004.
- Hood, R. R.** (2004) Modeling the impact of Iron and phosphorus limitation on *Trichodesmium* growth and N₂-fixation in the Atlantic. Old Dominion University Oceanography Department, March 25, 2004.
- Hood, R. R.** (2004) Modeling the impact of Iron and phosphorus limitation on *Trichodesmium* growth and N₂-fixation in the Atlantic. Chesapeake Biological Laboratory, October 7, 2004.
- Hood, R. R.** (2004) Jay McCreary's contributions to understanding biogeochemical variability in the Arabian Sea. Indian Ocean Modeling Workshop, special session on the contributions of Prof. McCreary, Honolulu, Hawaii, November 29, 2004.
- Hood, R. R.,** X. Zhang, and J. T. Anderson (2005) Modeling Pfiesteria life cycle attributes and population dynamics. GEOHAB 2005, Open Science Meeting, HABs and Eutrophication, Baltimore Maryland, March 10, 2005.
- Tango, P., C. W. Brown, T. F. Gross, D. L. Ramers, **R. R. Hood** and B. D. Michael (2005) Assessing the validation of a preliminary Karlodinium micrum nowcast model system in Chesapeake Bay and its tributaries. GEOHAB 2005, Open Science Meeting, HABs and Eutrophication, Baltimore Maryland, March 10, 2005.
- Hood, R. R.** (2005) Modeling interannual variability in Sea Nettle (*Chrysaora quinquecirrha*) populations in Chesapeake Bay. Estuarine Research Federation Biannual Meeting, *Estuarine Interactions*, Norfolk, Virginia, October, 16-20, 2005.
- Wetzel, R., C. Madden, **R. Hood (presenter)**, and R. Latour (2005) Ecological and multispecies modeling for ecosystem based management. Estuarine Research Federation Biannual Meeting, *Estuarine Interactions*, Norfolk, Virginia, October, 16-20, 2005.
- Hood, R. R.** (2005) Modeling interannual variability in Sea Nettle (*Chrysaora quinquecirrha*) populations in Chesapeake Bay. University of Delaware Graduate College of Marine Studies, Lewes Delaware, October 25, 2005.
- Hood, R. R.** (2005) Modeling interannual variability in Sea Nettle (*Chrysaora quinquecirrha*) populations in Chesapeake Bay. IAN Symposium on Ecological Forecasting, Chesapeake Bay Program Offices, Annapolis MD, December 1, 2005.
- Hood, R. R.** (2005) Assessing the influence of *Trichodesmium* and nitrogen fixation on marine biogeochemical cycles in the Atlantic. Wenner-Gren Foundations International

Symposium, "Marine cyanobacteria: evolution, function and genomes", Stockholm, August 24-27, 2005.

Hood, R. R., and J. R. Christian (2005) Ocean N-cycle Modeling. Significant Processes, Observations and Transformations in Oceanic Nitrogen (SPOT-ON). Rostock-Warnemunde, Germany, June 26 – July 1st, 2005.

Hood, R. R. (2005) Assessing the influence of *Trichodesmium* and nitrogen fixation on marine biogeochemical cycles in the Atlantic. University of Hawaii, August 29, 2005.

Hood, R. R. (2006) Ocean biogeochemical modeling in the 21st century: Challenges and future prospects. MSRC, State University of New York, Stony Brook, April 21, 2006.

Hood, R. R. (2006) Ocean biogeochemical modeling in the 21st century: Challenges and future prospects. Appalachian Laboratory, University of Maryland Center for Environmental Science, November 30, 2006.

Hood, R. R. (2006) Ocean biogeochemical modeling in the 21st century: Challenges and future prospects. Horn Point Laboratory, University of Maryland Center for Environmental Science, December 6, 2006.

Hood, R. R. (2006) Ocean biogeochemical modeling in the 21st century: Challenges and future prospects. Chesapeake Biological Laboratory, University of Maryland Center for Environmental Science, December 12, 2006.

Hood, R. R. (2006) Ocean biogeochemical modeling in the 21st century: Challenges and future prospects. Chesapeake Biological Laboratory, University of Maryland Center for Environmental Science, December 12, 2006.

Hood, R. R. (2007) Ocean biogeochemical modeling: Progress, challenges and prospects. Invited paper, ASLO Aquatic Sciences Meeting, Santa Fe, NM, February, 4-9.

Hood, R. R. (2007) SIBER: Sustained Indian Ocean Biogeochemical and Ecological Research. Invited presentation, Indian Ocean Panel Meeting, Pretoria, South Africa, April, 23-25.

Hood, R. R. (2007) SIBER: Sustained Indian Ocean Biogeochemical and Ecological Research. Invited presentation, IOGOOSV meeting, Phuket, Thailand, December 4.

Hood, R. R., V. J. Coles and D. G. Capone (2008) Modeling Nitrogen Fixation in the Atlantic Ocean. Invited presentation, ASLO/AGU/TOS Ocean Sciences Meeting, Orlando, FL, March 3-7.

Keller, D. P. and **R. R. Hood** (2008) Elucidating carbon and nitrogen cycling in the upper Chesapeake Bay. Invited talk at the MEES 2008 Colloquium at Chesapeake Biological Laboratory, Solomons Island, MD, October 17-18.

Hood, R. R. (2008) SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research. Invited presentation, GLOBEC-IMBER Transition Task Team Meeting, Washington, DC, December 15.

Hood, R. R., J. P. McCreary, Z. Xu and P. N. Vinayachandran (2009) Modeling the Oxygen Minimum Zone in the Arabian Sea. Invited presentation, CLIVAR Indian Ocean Panel Meeting VI, Reunion Island, June 3-5.

Hood, R. R., and S. W. A. Naqvi (2009) SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research. Invited presentation, CLIVAR Indian Ocean Panel Meeting VI, Reunion Island, June 3-5.

Hood, R. R. (2010) SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research. Invited presentation, GLOBEC-IMBER SSC Meeting, Washington, DC, May 5-7.

Hood, R. R., and S. W. A. Naqvi (2010) SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research. A new science alliance under IOGOOS and IMBER and vision for the future in the context of synergies with IOP and IRF. Invited plenary presentation, Joint SIBER/IOGOOS/IOP/IRF meeting, Perth Australia, July 12-16.

Hood, R. R., and S. W. A. Naqvi (2010) SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research. Report to IOGOOS. Invited presentation, Joint SIBER/IOGOOS/IOP/IRF meeting, Perth Australia, July 12-16.

Hood, R. R. (2011) SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research. Invited presentation, IMBER SSC Meeting, Marseilles, France, April 11-13.

Hood, R. R. (2011) Introduction: Hydrodynamic Models. Invited presentation, CCMP Hydrodynamic Modeling Workshop, Edgewater Maryland, U.S.A, June 9-10.

Hood, R. R. (2011) Chesapeake Bay Program Overview and Management Issues – Integrated Models, research, Monitoring and Decision Making. Invited presentation, Ministry of Earth Sciences Workshop, Modeling and Prediction of Chilika Lagoon, August 1-2.

Hood, R. R. (2012) SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research. Invited presentation, IMBER SSC Meeting, La Paz, Mexico, June 12-15.

Hood, R. R. (2012) Decadal Climate Prediction and the Role of Ocean Biology in the Indian Ocean. Joint IMBER/CLIVAR Meeting, La Paz, Mexico, June 13.

Yu, Z., McCreary, J. P., **R. R. Hood**, P. Vinayachandran et al. (2012) Oxygen minimum zones in the northern Indian Ocean. AOGS-AGU Joint Assembly Meeting, Singapore, August 13-17.

Hood, R. R. (2012) Biogeochemical Impacts of Boundary Currents in the Indian Ocean, with Special Reference to the Agulhas System and the Madagascar Bloom. AGU Chapman Conference on the Agulhas System, Spier, South Africa, October 8-12.

Hood, R. R. (2010) University of Maryland Center for Environmental Science Organization and Research Activities, and Chesapeake Bay Management Modeling. Invited presentation, Tianjin University, Tianjin, China, December 26-30.

Hood, R. R., C. W. Brown, J. D. Wiggert, W. Long, J. Xu, R. Wood, J. Jacobs, M. B. Prasad, and L. W. Lanerolle (2012) Ecological Forecasting in Chesapeake Bay. Invited presentation, Tianjin University, Tianjin, China, December 26-30.

Hood, R. R. (2012) University of Maryland Center for Environmental Science Oyster Cultivation and Restoration Facility. Invited presentation, Tianjin University, Tianjin, China, December 26-30.

Hood, R. R., and L. E. Beckley (2013) Biogeochemical and Ecological Impacts of Boundary Currents in the Indian Ocean. Murdoch University, Perth, February 6.

- Hood, R. R.,** L. E. Beckley and J. D. Wiggert (2013) Biogeochemical and Ecological Impacts of Boundary Currents in the Indian Ocean. CSIRO/CMAR, Hobart, Tasmania, Australia, March 1.
- Hood, R. R.,** P. G. Strutton, V. J. Coles, R. J. Matear and H. E. Phillips (2013) Biogeochemical Variability in the Equatorial Indian Ocean in Response to Wyrki Jet Forcing: Preliminary Results From the First RAMA Biogeochemical Sensor Deployment. IOP/SIBER/IRF meeting, LiJiang, China, July 10, 2013.
- Hood, R. R.** (2013) SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research. Invited presentation, IMBER SSC Meeting, Las Palmas, Gran Canaria, Mexico, June 17-19.
- Hood, R. R.,** and E. Urban (2013) International Indian Ocean Expedition 50th Anniversary Planning, Report to the Ocean Studies Board, Monmouth University, West Long Branch, New Jersey, USA, August 1st.
- Hood, R. R.,** and N. D'Adamo (2013) Report from the first IIOE-2 Reference Group Meeting, IIOE-2 Reference Group Meeting No. 2, Qingdao, China, November 20-21.
- Hood, R. R.,** J. Sun, L. Beckley, H. Bange, C. Davis, R. Ji, M. Landry, T. Stromme, and S. M. Liu (2013) Overarching Science and Societal Drivers for IIOE-2 from a Biogeochemical and Ecological Perspective, IIOE-2 Reference Group Meeting No. 2, Qingdao, China, November 20-21.
- Hood, R. R.** (2013) Plenary Discussion: Outstanding Biogeochemical Science with Upwelling. Eastern Indian Ocean Upwelling Research Initiative, 2nd Workshop, Qingdao, China, November 18-19.
- Hood, R. R.** and E. Urban (2014) Update on planning for the Indian Ocean Expedition 50th Anniversary Initiative (IIOE-2), Report to the Ocean Studies Board, The National Academy of Sciences, Washington, DC, USA, March 12.
- Hood, R. R.,** E. Urban and P. Burkill (2014) Update on planning for the Indian Ocean Expedition 50th Anniversary Initiative (IIOE-2). IMBER Open Science Conference, Bergen Norway, June 23-27.
- Hood, R. R.** and J. J. McPhaden (2014) The Second International Indian Ocean Expedition (IIOE-2) 2015-2020. National Ocean Council Interagency Policy Committee Meeting, July 9.
- Hood, R. R.** (2014) IIOE-2 National Plans, Priorities and Progress in USA. SCOR Science Plan Development Committee Meeting, Bremen Germany, September 12.
- Hood, R. R.** (2014) IIOE-2 Draft Science Plan. SCOR General Meeting, Bremen Germany, September 18.
- Hood, R. R.** (2014) IIOE-2 Draft Science Plan. IOGOOS/SIBER/IRF Meeting, Phuket, Thailand, October 29-31.
- Hood, R. R.** and M. Roberts (2014) SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research, Report to IOGOOS. IOGOOS/SIBER/IRF Meeting, Phuket, Thailand, October 29-31.

- Hood, R. R.** (2014) IIOE-2 Draft Science Plan. Briefing to the U.S. National Science Foundation, Arlington Virginia, USA, December 8.
- Hood, R. R.** (2014) IIOE-2 Draft Science Plan. AGU Town Hall Meeting, San Francisco, USA, December 18.
- Coles, V. J., **R. R. Hood** et al. (2014) Ship to silicon: Exploring genomics and transcriptomics along the Amazon River plume, Gordon Conference on Marine Microbiology, MA, June.
- Coles, V. J., **R. R. Hood** et al. (2014) "The interplay of physics and biogeochemistry in the Amazon River Plume", NOAA EMC, November.
- Coles, V.J., **R. R. Hood** et al. (2015) Emergent Patterns of genes, transcripts, and community structure in the GENOME model, OCB Trait-Based workshop, New Hampshire, October.
- Hood, R. R.**, L. E. Beckley and J. D. Wiggert (2015) Biogeochemical and Ecological Impacts of Boundary Currents in the Indian Ocean. University of Southern Mississippi, Department of Marine Science, Stennis Space Center, Mississippi, February 27.
- Hood, R. R.** (2015) Modeling Chesapeake Bay. Smithsonian Environmental Research Center, March 24.
- Hood, R. R.** (2015) Modeling Chesapeake Bay. CSDMS Annual Meeting, Boulder Colorado, May 26.
- Hood, R. R.**, and M. Roberts (2015) Sustained Indian Ocean Biogeochemistry and Ecosystem Research, Report to IMBER SSC. IMBER General Meeting, Santa Cruz, California, June 8.
- Hood, R. R.**, L. E. Beckley and J. D. Wiggert (2015) Biogeochemical and Ecological Impacts of Boundary Currents in the Indian Ocean. University of South Carolina, Department of Earth and Ocean Sciences, Columbia, South Carolina, November 20.
- Hood, R. R.** (2015) Jay McCreary's Contributions to Modeling Biogeochemical Variability in the Indian Ocean. Invited presentation at the IIOE 50th Anniversary Symposium. Goa, India, December 2.
- Hood, R. R.** (2015) The IIOE-2 Science Plan. Invited plenary presentation at the IIOE 50th Anniversary Symposium. Goa, India, December 4.
- Hood, R. R.** (2015) SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research, Report to IRF on Indian Ocean Observing System Biogeochemistry. IndOOS Resources Forum. Goa, India, December 5.
- Hood, R. R.** (2015) The IIOE-2 Science Plan and Implementation Strategy. IndOOS Resources Forum. Goa, India, December 7.
- Hood, R. R.** (2015) The IIOE-2 Science Plan and Implementation Strategy. SCOR General Meeting. Goa, India, December 7.
- Hood, R. R.**, and M. Roberts (2015) Sustained Indian Ocean Biogeochemistry and Ecosystem Research, Report to IRF. IOGOOS General Meeting, Goa, India, December 9.
- Hood, R. R.**, and G. Shenk (2016) Visioning for the Future of Chesapeake Bay Program Modeling for 2018 and Beyond (a CSDMS and STAC "initiative"). Community Surface

Dynamics Modeling System (CSDMS) Interagency Working Group Meeting, NSF, Arlington Virginia, January 13.

Hood, R. R., L. E. Beckley and J. D. Wiggert (2016) Biogeochemical and Ecological Impacts of Boundary Currents in the Indian Ocean. Ocean Carbon and Biogeochemistry Meeting, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, July 27.

Hood, R. R., L. E. Beckley and J. D. Wiggert (2016) Biogeochemical and Ecological Impacts of Boundary Currents in the Indian Ocean. Virginia Institute of Marine Science, Gloucester, Virginia, November 7.

Hood, R. R. (2016) The Second International Indian Ocean Expedition (IIOE-2): Motivating New Exploration in a Poorly Understood Basin. KAUST, Saudi Arabia, November 16.

Hood, R. R. (2017) US IIOE-2 Steering Committee Progress. Report to the IIOE-2 Steering Committee. IORC, Perth Australia, February 3rd.

Hood, R. R. (2017) SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research. Report to the IIOE-2 Steering Committee. IORC, Perth Australia, February 3rd.

Hood, R. R. (2017) Eastern Indian Ocean Upwelling Research Initiative (EIOURI). Report to the IIOE-2 Steering Committee. IORC, Perth Australia, February 3rd.

Hood, R. R. (2017) Key Biogeochemical Problems in the Indian Ocean as Seen by SIBER. Bio-Argo Workshop, Perth Australia, February 3rd.

Hood, R. R. (2017) SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research. Report to IOGOOS. IORC, Perth Australia, February 2nd.

Hood, R. R. (2017) Challenges Associated with Representing DOM and CDOM in Models. Ocean Carbon and Biogeochemistry Meeting, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, June 26.

Hood, R. R. (2017) US IIOE-2 Steering Committee Activities and Planning Workshop: Report to OCB. Ocean Carbon and Biogeochemistry Meeting, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, June 29.

Hood, R. R. (2017) Indian Ocean Science Workshop: Introduction to the Workshop and IIOE-2. Scripps Institution of Oceanography, September 11.

Hood, R. R. (2017) Korea-US Indian Ocean Scientific Imperatives Workshop: Introduction to the IIOE-2 and the US plan. Hoam Faculty House, Seoul, Republic of South Korea, Nov. 29.

Hood, R. R. (2018) Chesapeake Bay Program Modeling in 2025 and Beyond: A Proactive Visioning Workshop (Introduction). National Conservation Training Center, West Virginia, January 17.

Hood, R. R. and H. Bange (2018) IIOE-2 Working Group 1. Report to IIOE-2 Steering Committee, Jakarta, Indonesia, March 19.

Hood, R. R. (2018) IIOE-2 Science Plan and Research Themes. Presentation to IIOE-2 Steering Committee, Jakarta, Indonesia, March 19.

- Hood, R. R.** (2018) Update on US IIOE-2 National Committee Activities. Report to IIOE-2 Steering Committee, Jakarta, Indonesia, March 20.
- Hood, R. R.** (2018) SD-08: Carbon Cycle, Acidification and Biological Impacts. Report to IndOOS Review Panel, IndOOS Decadal Review Meeting, Jakarta, Indonesia, March 22nd and 23rd.
- Hood, R. R.** (2018) KUDOS Science Plan Theme 5: Ecosystems and Fisheries. Scripps Institution of Oceanography, San Diego, CA, November 6.
- Hood, R. R.** (2020) Impacts of Atmospheric (Monsoon) and Remote (Planetary Wave) Forcing on the Biogeochemistry and Ecology of Boundary Currents in the Indian Ocean. International Conference on Earth and Environmental Sciences & Technology for Sustainable Development (ICEEST) 2020, Dhaka, Bangladesh, January 25 - 30.
- Hood, R. R.,** L. E. Beckley and J. D. Wiggert (2020) Tutorial: Biogeochemical and Ecological Impacts of Boundary Currents in the Indian Ocean. Ocean Sciences Meeting, San Diego, CA, February 17 – 21.
- Hood, R. R.,** and M. A. M. Friedrichs (2021) Taking a Deep Dive into Shallow Waters. CRC Virtual Roundtable Discussion, March 17, 2021.
- Hood, R. R.** (2022) Learning from the plenary session on Biogeochemistry and Ecology. International Indian Ocean Science Conference (IIOSC) 2022, Virtual Meeting, March 18.
- Hood, R. R.** (2022) Update on US IIOE-2 National Committee Activities. Report to IIOE-2 Steering Committee, Virtual Meeting, March 21.
- Hood, R. R.** (2022) Status and Review of IIOE-2 Working Group 1 (Science and Research). Report to IIOE-2 Steering Committee, Virtual Meeting, March 21.
- Horemans, D. L., M. A. M Friedrichs, P. St-Laurent, **R. R. Hood**, and C. W. Brown (2022) Forecasting Harmful Algal Blooms in the Chesapeake Bay Using Empirical Habitat Models. Horn Point Laboratory Seminar, Cambridge Maryland, November 16.
- Hood, R. R.** (2023) Update on US IIOE-2 National Committee Activities. Report to IIOE-2 Steering Committee, IIOSC Joint Meetings, Perth, Australia, February 6.
- Hood, R. R.** (2023) Status and Review of IIOE-2 Working Group 1 (Science and Research). Report to IIOE-2 Steering Committee, IIOSC Joint Meetings, Perth, Australia, February 7.
- Hood, R. R.** (2023) Second International Indian Ocean Expedition (2015-2025) – Progress, Status and the Future. Plenary Presentation to IIOE-2 Steering Committee, IIOSC Joint Meetings, Perth, Australia, February 6.
- Hood, R. R.** (2023) SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research, Report to IRF, IIOSC Joint Meetings, Perth, Australia, February 9.
- Hood, R. R.** (2023) Using Chesapeake Bay Program Model Scenarios to Predict Restoration Impacts on *Vibrio vulnificus*. STAC Panel Presentation, Virtual Meeting, March 15.
- Hood, R. R.** (2024) Update on US IIOE-2 National Committee Activities. Report to IIOE-2 Steering Committee, IIOSC Joint Meetings, Lombok, Indonesia, March 4.

Hood, R. R. (2024) Status and Review of IIOE-2 Working Group 1 (Science and Research). Report to IIOE-2 Steering Committee, IIOSC Joint Meetings, Lombok, Indonesia, March 5.

Hood, R. R. (2024) SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research, Report to IRF, IIOSC Joint Meetings, Lombok, Indonesia, March 7.

Hood, R. R. (2024) SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research, Report to IOGOOS, IIOSC Joint Meetings, Lombok, Indonesia, March 7.

Hood, R. R., V. J. Coles and X. Guo (2024) Leveraging the Power of Big Data to Model Landscape Scale Metabolism in Chesapeake Bay. Chesapeake Bay Program Modeling Group, October 29.

Woodland, R., V. Coles, X. Guo, and **R. R. Hood** (2025) Preparing for Linkage of Phase 7 and CBP Habitat Models. Chesapeake Bay Program Modeling Workgroup, January 8.

Hood, R. R. (2025) Update on US IIOE-2 National Committee Activities. Report to IIOE-2 Steering Committee, IIOSC Joint Meetings, Mauritius, Indonesia, May 4 - 9.

Hood, R. R. (2025) Status and Review of IIOE-2 Working Group 1 (Science and Research). Report to IIOE-2 Steering Committee, IIOSC Joint Meetings, Mauritius, Indonesia, May 4 - 9.

Hood, R. R. (2025) SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research, Report to IRF, IIOSC Joint Meetings, Mauritius, May 4 – 9.

Hood, R. R. (2025) SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research, Report to IOGOOS, IIOSC Joint Meetings, Mauritius, May 4 – 9.

Hood, R. R. (2025) IIOE-2 Science Plan Addendum (IIOE-2 Science 2026 – 2030). Report to IIOE-2 Steering Committee, IIOSC Joint Meetings, Mauritius, Indonesia, May 4 - 9.

Hood, R. R. (2025) Future Perspective on the Second International Indian Ocean Expedition (IIOE-2), Science Plan Addendum 2026 – 2030. IIOSC Meeting, Hyderabad, India, December 1 – 5, 2025.

4. Contributed Papers and Posters

Hood, R. R., and D. B. Olson (1996) Modeling the seasonal mixed layer and biological Production cycles in the north Atlantic Ocean. *AGU Ocean Sciences*, 96, February 12-16, 1996, San Diego, California.

Hood, R. R., K. A. Maillet, and D. B. Olson (1997) Modelling air-sea CO₂ exchange in the North Atlantic Ocean. ASLO 97, Aquatic Sciences Meeting, February 10-14, 1997, Santa Fe, New Mexico.

Hood, R. R., H. V. Wang, and J. E. Purcell (1998) Individual based modeling of particles and pelagic organisms in Chesapeake Bay. *AGU Ocean Sciences*, 98, February 9-13, 1998, San Diego, California.

Hood, R. R., L. R. May, A. Subramaniam, E. J. Carpenter and D. G. Capone (1999) Modeling nitrogen and carbon fixation of *Trichodesmium*: Shipboard and remote sensing applications. ASLO 99, Aquatic Sciences Meeting, February 1-5, 1999, Santa Fe, New Mexico.

- Kemp, W. M., M. T. Brooks, and **R. R. Hood** (*presenter*) (1999) Productivity, variability and trophic transfer efficiency in pelagic food webs. ASLO 99, Aquatic Sciences Meeting, February 1-5, 1999, Santa Fe, New Mexico.
- Hood, R. R.**, N. R. Bates, D. G. Capone, and D. B. Olson (2000) Modeling seasonal and Interannual biogeochemical and N₂ –fixation cycles at BATS. AGU Ocean Sciences, January 24-28, 2000, San Antonio, Texas.
- Coles, V. J., and **R. R. Hood** (2000) Modeling *Trichodesmium* and the impact of nitrogen fixation in the Atlantic Ocean. ASLO Aquatic Sciences, 2000, June 5-9, 2000, Copenhagen, Denmark.
- Anderson, J., D. Stoecker, **R. Hood**, and X. Zhang (2000) Quantification of life history transformation rates of non-tixoc *Pfiesteria piscicida*. ASLO Aquatic Sciences, 2000, June 5-9, 2000, Copenhagen, Denmark.
- Hood, R.**, X. Zhang, and J. Anderson (2000) Numerical simulation of *Pfiesteria pscicida* population dynamics. ASLO Aquatic Sciences, 2000, June 5-9, 2000, Copenhagen, Denmark.
- Decker, M. B., J. E. Purcell, **R. R. Hood**, and C. W. Brown (2001) Defining the habitat of sea nettles (*Chrysaora quinquecirrha*) in Chesapeake Bay. 16th Biennial Conference of the Estuarine Research Federation, 2001, November 4-8, St. Pete Beach, Florida.
- Hood, R. R.**, M. Wood, E. Koch, and R. Newell (2001) Modeling the interaction between wave-induced sediment resuspension, bivalve filtration and seagrass growth. 16th Biennial Conference of the Estuarine Research Federation, 2001, November 4-8, St. Pete Beach, Florida.
- Newell, R. I. E., E. W. Koch, M. K. Wood, R. E. Grizzle, and **R. R. Hood** (2001) Linking bivalve filtration and seagrass growth via sediment dynamics and turbidity in shallow waters. 16th Biennial Conference of the Estuarine Research Federation, 2001, November 4-8, St. Pete Beach, Florida.
- Ammerman, J. W., D. A. Case, **R. R. Hood**, and J. B. Cotner (2002) Time series phosphorus measurements at BATS. U.S. JGOFS Ocean Time-Series Summit, Vancouver BC, 9-12 April.
- Li, Z, T. Gross, H. Wang, C. Brown, and **R. Hood** (2002) Validation and Application of a Near Real Time Nowcast System of Salinity and Temperature in Chesapeake Bay. 2002 AGU/ASLO Ocean Sciences Meeting, Honolulu, HI, 11-15 February.
- Pascual, M., V. J. Coles, **R. R. Hood**, and D. G. Capone (2002) Modeling Nitrogen Fixation in an Atlantic Coupled Ecosystem Ocean Circulation Model. 2002 AGU/ASLO Ocean Sciences Meeting, Honolulu, HI, 11-15 February.
- Finzi, J. A., J. A. Burns, A. Subramaniam, **R. R. Hood**, and D. G. Capone (2002) Light Dependent Carbon and Nitrogen Fixation Characteristics of *Trichodesmium*. 2002 AGU/ASLO Ocean Sciences Meeting, Honolulu, HI, 11-15 February.
- Friedrichs, M. A., **R. R. Hood**, and J. D. Wiggert (2002) The Arabian Sea Model Testbed: an Intercomparison of Data Assimilative Ecosystem Models. 2002 AGU/ASLO Ocean Sciences Meeting, Honolulu, HI, 11-15 February.

- Hood, R. R.**, K. E. Kohler, J. P. McCreary, and S. L. Smith (2002) A 4-Dimensional Validation of a Coupled Physical-Biological Model of the Arabian Sea. 2002 AGU/ASLO Ocean Sciences Meeting, Honolulu, HI, 11-15 February.
- North, E. W., **R. R. Hood**, S.-Y. Chao, and L. P. Sanford (2003) Using a random displacement model to simulate turbulent particle motion in a baroclinic frontal zone: A new implementation scheme and model performance tests. 2004 ICES meeting, Barcelona, Spain, 8-12, March.
- Friedrichs, A. M., **R. R. Hood**, and J. D. Wiggert (2003) Ecosystem model comparison in the Arabian Sea: A prototype regional modeling testbed. JGOFS Final Open Science Conference, 5-8 May, Washington DC.
- Friedrichs, A. M., **R. R. Hood** et al. (2003) The regional ecosystem modeling testbed project. JGOFS Final Open Science Conference, 5-8 May, Washington DC.
- Hood, R. R.**, and K. Sellner (2003) Exposing your code: Open source modeling and the Chesapeake Bay community modeling program. 2003 Biennial ERF Conference, "Estuaries on the Edge", Seattle WA, 14-18, September.
- North, E. W., **R. R. Hood**, S.-Y. Chao, and L. P. Sanford (2003) Linking biology and physics in An ETM: The effect of freshwater flow and wind on retention of fish early-life stages. 2003 Biennial ERF Conference, "Estuaries on the Edge", Seattle WA, 14-18, September.
- Hood, R. R.**, K. E. Kohler, J. P. McCreary, and S. L. Smith (2004) A 4-Dimensional Validation of a Coupled Physical-Biological Model of the Arabian Sea. 2004 AGU Ocean Sciences Meeting, Portland Or, 26-30, January.
- Hood, R. R.** (2004) Modeling the impact of Iron and phosphorus limitation on *Trichodesmium* growth in the Atlantic. 2004 ASLO/TOS Ocean Sciences Meeting, Honolulu HI, 16-20, February.
- Coles, V. J., C. Wilson, and **R. R. Hood** (2004) Remote sensing of new production fueled by nitrogen fixation. 2004 AGU Ocean Sciences Meeting, Portland Or, 26-30, January.
- Finzi, J. A., J. A. Burns, A. Subramaniam, **R. R. Hood** and D. G. Capone (2004) Nitrogen fixation and photosynthetic parameters of *Trichodesmium* spp. In the subtropical North Pacific. 2004 ASLO/TOS Ocean Sciences Meeting, Honolulu HI, 16-20, February.
- Hood, R. R.**, V. J. Coles, and D. G. Capone (2005) Modeling the influence of nitrogen fixation on marine biogeochemical cycles in the Atlantic Ocean. 2005 ASLO Aquatic Sciences meeting, Salt Lake City, Utah, 20-25, February.
- North, E. W., **R. R. Hood**, T. F. Gross, L. Zhong, M. Li, J. L. Manuel, R. I. Newell, V. S. Kennedy (2005) Towards predicting oyster recruitment in Chesapeake Bay: the influence of environmental variability and larval behavior on transport and settlement. Estuarine Research Federation Biannual Meeting, *Estuarine Interactions*, Norfolk, Virginia, October, 16-20, 2005.
- Keller, D., and **R. R. Hood** (2005) Modeling the sources, sinks and transformations of dissolved organic nitrogen in estuarine and coastal waters. Estuarine Research Federation Biannual Meeting, *Estuarine Interactions*, Norfolk, Virginia, October, 16-20, 2005.
- Williams, M. R., T. R. Fisher, C. F. Cerco, W. R. Boynton, M. W. Kemp, K. N. Eshleman, **R. R. Hood**, S. C. Kim, S. E. Greene, G. Radcliffe (2005) Effects of tidal marshes on the biogeochemistry of low-salinity estuarine regions: inferences from numerical modeling.

Estuarine Research Federation Biannual Meeting, *Estuarine Interactions*, Norfolk, Virginia, October, 16-20, 2005.

Decker, M. B., **R. R. Hood**, C. W. Brown, J. E. Purcell, T. F. Gross (2005) Development of habitat models for predicting the abundance and distribution of Chesapeake Bay jellyfish (*Chrysaora quinquecirrha*) Estuarine Research Federation Biannual Meeting, *Estuarine Interactions*, Norfolk, Virginia, October, 16-20, 2005.

Brown, C. W., D. L. Ramers, T. F. Gross, **R. R. Hood**, P. J. Tango (2005) Nowcasting the relative abundance of the ichthyotoxic dinoflagellate *Karlodinium micrum* in Chesapeake Bay. Estuarine Research Federation Biannual Meeting, *Estuarine Interactions*, Norfolk, Virginia, October, 16-20, 2005.

Gross, T. F., and **R. R. Hood** (2005) Building a Chesapeake Research Community through open source modeling. Estuarine Research Federation Biannual Meeting, *Estuarine Interactions*, Norfolk, Virginia, October, 16-20, 2005.

North, E. W., S. Chen, **R. R. Hood**, F. Shi, L. P. Sanford, J. T. Kirby, E. W. Koch, R. I. Newell (2005) Understanding the effects of oyster reefs and breakwaters on seagrass habitat: an open-source modeling approach. Estuarine Research Federation Biannual Meeting, *Estuarine Interactions*, Norfolk, Virginia, October, 16-20, 2005.

Xu, J., and **R. R. Hood** (2005) Modeling biogeochemical cycles in Chesapeake Bay with a coupled physical-biological model of Chesapeake Bay: development, validation and improvement. Estuarine Research Federation Biannual Meeting, *Estuarine Interactions*, Norfolk, Virginia, October, 16-20, 2005.

Li, M., L. Zhong, **R. R. Hood**, and L. W. Harding (2005) Simulating seasonal and interannual variations of plankton populations in the Chesapeake Bay using a new biophysical model. Estuarine Research Federation Biannual Meeting, *Estuarine Interactions*, Norfolk, Virginia, October, 16-20, 2005.

Hood, R. R., C. W. Brown, T. F. Gross, M. B. Decker, and J. E. Purcell (2005) Modeling interannual variability in sea nettle (*Chrysaora quinquecirrha*) populations in Chesapeake Bay. Estuarine Research Federation Biannual Meeting, *Estuarine Interactions*, Norfolk, Virginia, October, 16-20, 2005.

Lanerolle, L., T. Gross, **R. Hood**, and J. Xu (2005) Coupled high resolution ROMS applications for simulation of hypoxic zones in the Chesapeake Bay. Estuarine Research Federation Biannual Meeting, *Estuarine Interactions*, Norfolk, Virginia, October, 16-20, 2005.

Hood, R. R., J. D. Wiggert, J. McCreary, R. G. Murtugudde, and P. N. Vinayachandran (2006) The Indian Ocean: recent discoveries, links to global climate, atmosphere-ocean interaction and biogeochemical response. AGU/ASLO/TOS Ocean Sciences meeting, Honolulu, HI, February, 20-24, 2006.

Wiggert, J. D., R. G. Murtugudde and **R. R. Hood** (2006) The influence of inter-regional connections on seasonal to interannual biogeochemical variability in the Indian Ocean. AGU/ASLO/TOS Ocean Sciences meeting, Honolulu, HI, February, 20-24, 2006.

Vinayachandran, P., J. P. McCreary Jr., **R. R. Hood** and K. E. Kohler (2006) Phytoplankton bloom in the Bay of Bengal during northeast monsoon: Satellite observations and numerical modeling. AGU/ASLO/TOS Ocean Sciences meeting, Honolulu, HI, February, 20-24, 2006.

- Coles, V. J., and **R. R. Hood** (2006) Atmospheric dust deposition variability and Atlantic nitrogen fixation. AGU/ASLO/TOS Ocean Sciences meeting, Honolulu, HI, February, 20-24, 2006.
- Brown, C. W., T. F. Gross, **R. R. Hood**, D. L. Ramers, P. J. Tango, and B. D. Michael (2006) Implementation of an operational harmful algal bloom prediction system in Chesapeake Bay. ASLO Summer Meeting, Victoria BC, Canada, June 4-9, 2006.
- Ramers, D. L., C. W. Brown, T. F. Gross, **R. R. Hood**, P. J. Tango and B. D. Michael (2006) Predicting the abundance of the dinoflagellate *Karlodinium micrum* in Chesapeake Bay using an artificial neural network. . ASLO Summer Meeting, Victoria BC, Canada, June 4-9, 2006.
- North, E. W., **R. R. Hood**, M. Li, L. Zhong, T. Gross, J. L. Manuel, R. I. Newell, V. S. Kennedy, and Z. Schlag (2006) The influence of environmental variability and settlement habitat on the dispersal of oyster larvae in Chesapeake Bay. ASLO Summer Meeting, Victoria BC, Canada, June 4-9, 2006.
- Xu, J., E. W. North, **R. R. Hood** and R. I. Newell (2006) Quantifying the role of oysters in restoring water quality in Chesapeake Bay: Toward a potential management tool for oyster restoration. ASLO Summer Meeting, Victoria BC, Canada, June 4-9, 2006.
- Hood, R.**, D. Keller, D. Lee and B. Crump (2007) Primary Production in the Chesapeake Bay ETM: Rates, Sources and Contribution to Higher Trophic Level Production. ERF 2007, November 4-8.
- Lee, D., **R. Hood**, and B. Crump (2007) Community Metabolism of Estuarine Turbidity Maximum in Chesapeake Bay: Primary Production, Respiration, and Size-Fractionated Respiration. ERF 2007, November 4-8.
- Long, W., J. Xu, L. Lanerolle, **R. Hood**, T. Gross, J. Wiggert, R. Murtugudde, C. Brown (2007) Internal Variability of the Chesapeake Bay Physics. ERF 2007, November 4-8.
- North, E., E. Houde, S. Chao, B. Crump, C. Friedrichs, **R. Hood**, D. Kimmel, E. Martino, M. Roman, J. Pierson, L. Sanford (2007) A Synthesis of Biological-Physical Interactions in the Chesapeake Bay Estuarine Turbidity Maximum. ERF 2007, November 4-8.
- Pierson, J., M. Roman, D. Kimmel, **R. Hood**, B. Crump, D. Keller, M. Malpezzi (2007) Winter Zooplankton Abundance, Distribution, and Vital Rates in the Chesapeake Bay Estuarine Turbidity Maximum. ERF 2007, November 4-8.
- Sexton, M., **R. Hood**, M. Decker (2007) Sea Nettle *Chrysaora quinquecirrha* in Chesapeake Bay: Factors Influencing Disappearance and Variability. ERF 2007, November 4-8.
- Xu, J., W. Long, W., L. Lanerolle, **R. Hood**, T. Gross, C. Brown, R. Murtugudde, J. Wiggert (2007) Studying the Interannual Variability in the Chesapeake Bay using the ChesROMS Community Model. ERF 2007, November 4-8.
- Coles, V. J., **R. R. Hood**, C. W. Brown (2008) Modeling Coccolithophorid Calcification in the North Atlantic , ASLO/AGU/TOS Ocean Sciences Meeting, Orlando, FL, March 3-7.

Long, W., J. Xu, L. Lanerolle, **R. R. Hood**, T. F. Gross, J. D. Wiggert, R. G. Murtugudde, C. W. Brown (2008) CHESROMS: Operational Modeling of Chesapeake Bay Physics and Ecology. ASLO/AGU/TOS Ocean Sciences Meeting, Orlando, FL, March 3-7.

Wiggert, J. D., J. Xu, W. Long, L. Lanerolle, **R. R. Hood**, C. W. Brown (2008) Seasonal Variability of Biogeochemical Properties and Water Quality Within a Coupled Model of Chesapeake Bay. ASLO/AGU/TOS Ocean Sciences Meeting, Orlando, FL, March 3-7.

Sarkodee-Adoo, J., **R. R. Hood**, M. Sexton (2008) The Effects of Temperature on Scyphomedusan *Chrysaora quinquecirrha* Swimming and Mortality. ASLO/AGU/TOS Ocean Sciences Meeting, Orlando, FL, March 3-7.

Hood, R., W. Long, J. Xu, J. Wiggert, L. Lanerolle, T. Gross, and C. Brown (2008) The ChesROMS Community Model. CCMP CheMS08 Symposium, Annapolis, MD, May 12-14.

Long, W., **R. Hood**, J. Xu, J. Wiggert, L. Lanerolle, T. Gross, R. Murtugudde and C. Brown (2008) Chesapeake Bay Regional Ocean Modeling System (ChesROMS). CCMP CheMS08 Symposium, Annapolis, MD, May 12-14.

Wiggert, J., J. Xu, W. Long, L. W. J. Lanerolle, **R. Hood** and C. W. Brown (2008) Seasonal variability of biogeochemical processes within a coupled model of Chesapeake Bay. Poster presentation, CCMP CheMS08 Symposium, Annapolis, MD, May 12-14.

Keller, D. P. and **R. R. Hood** (2008) Modeling the transfer of energy between different trophic levels in the Chesapeake Bay estuarine turbidity maximum. Poster presentation at the Advances in Marine Modelling Research (AMEMR) 2008 conference in Plymouth, UK, 23-26 June, 23-26.

Sexton, M. A., **R. R. Hood**, J. Sarkodee-Adoo, and A. M. Liss (2009) Response of sea nettle *Chrysaora quinquecirrha* to low temperature. ASLO Aquatic Sciences Meeting, Nice France, January 25-30.

Hood, R. R., D. P. Keller and D.-Y. Lee (2009) Phytoplankton production, respiration and species composition patterns in the Chesapeake Bay ETM. CERF 2009 Conference, Portland Oregon, November 1-5.

Lee, D.-Y., **R. Hood**, D. Keller and B. Crump (2009) Assessing the role of dinoflagellates in the Chesapeake Bay turbidity maximum area. CERF 2009 Conference, Portland Oregon, November 1-5. *Best Student Poster Award*.

Wiggert, J., W. Long, B. K. P. Mathukamali, J. Xu, L. W. Lanerolle, C. W. Brown and **R. R. Hood** (2009) Simulation of seasonal bloom dynamics and hypoxia onset using a coupled physical-biogeochemical model of Chesapeake Bay. CERF 2009 Conference, Portland Oregon, November 1-5.

Sexton, M., **R. Hood**, J. Sarkodee-Adoo, and A. M. Liss (2009) Factors that influence the timing and intensity of the annual bloom of the sea nettle (*Chrysaora quinquecirrha*). CERF 2009 Conference, Portland Oregon, November 1-5.

Pierson, J., M. Roman, D. Kimmel, **R. Hood**, B. Crump, D. Keller, D.-Y. Lee, and M. Malpezzi (2009) Estimates of winter zooplankton production in the Chesapeake Bay estuarine turbidity maximum. CERF 2009 Conference, Portland Oregon, November 1-5.

- Keller, D., and **R. Hood** (2009) Modeling the seasonal cycle of dissolved organic carbon and nitrogen at station CB3.3C in the upper Chesapeake Bay, USA. CERF 2009 Conference, Portland Oregon, November 1-5.
- Coles, V. J., **R. R. Hood** and C. Brown (2010) North Atlantic variability in coccolithophorid distribution from satellites and a model: Physical drivers and biogeochemical response. Ocean Sciences 2010 Conference, Portland Oregon, February 22-26.
- Yoshikawa, C., V. J. Coles, **R. R. Hood** and N. Yoshida (2010) The nitrogen fixation and N* anomaly patterns in the Atlantic Ocean. Ocean Sciences 2010 Conference, Portland Oregon, February 22-26.
- McCreary, J. P., Z. Yu, **R. R. Hood** and P. Vinayachandran (2010) Modeling the formation of the Arabian Sea and Bay of Bengal oxygen minimum zones. Ocean Sciences 2010 Conference, Portland Oregon, February 22-26.
- Hood, R. R.**, S. W. A. Naqvi, and J. D. Wiggert (2010) SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research. Poster presentation, IMBER IMBIZO II meeting, Crete, Greece, October 11-14.
- Wiggert, J. D., W. Long, J. Xu, **R. R. Hood**, B. K. Mathukumalli, L. W. Lanerolle, and C. W. Brown (2011) Assessment of a coupled physical-biogeochemical model developed for water quality and ecological forecast use in Chesapeake Bay. ASLO Aquatic Sciences Meeting, San Juan, Puerto Rico, February 13-18.
- Brown, C. W., **R. R. Hood**, W. Long, D. L. Ramers, C. Wazniak, J. Wiggert, R. Murtugudde, M. B. Decker, and D. Wilson (2011) Development of a Chesapeake Bay ecological prediction system. ASLO Aquatic Sciences Meeting, San Juan, Puerto Rico, February 13-18.
- Hood, R. R.**, C. W. Brown, J. D. Wiggert, W. Long, J. Xu, R. Wood, J. Jacobs, M. B. Prasad, and L. W. Lanerolle (2011) CBEPS: The Chesapeake Bay ecological prediction system (The ChesROMS model and sea nettle ecological nowcasts/forecasts). ASLO Aquatic Sciences Meeting, San Juan, Puerto Rico, February 13-18.
- Jacobs, J. M., C. Brown, R. Colwell, D. Green, **R. Hood**, W. Long, G. Constantin de Magny, B. Krishna Prasad Mathukumalli, R. Murtugudde, M. Rhodes, and B. Wood (2011). The Chesapeake Bay Vibrio spp. forecast system. ASLO Aquatic Sciences Meeting, San Juan, Puerto Rico, February 13-18.
- Sexton, M. A., and **R. R. Hood** (2011) The use of visual counts for measuring medusa abundance. ASLO Aquatic Sciences Meeting, San Juan, Puerto Rico, February 13-18.
- Hood, R. R.** (2011) SIBER UPDATE: Efforts to deploy biogeochemical sensors in the Indian Ocean: Progress since SIBER-1. Joint SIBER/IOP/IRF meeting, Chennai, Indian, July 25-29.
- Hood, R. R.** (2011) SIBER SCIENCE PLAN REVIEW: Overview of the SIBER Science Plan, formatted and printed version, research themes, working groups, implementation plan, timeline, etc. Joint SIBER/IOP/IRF meeting, Chennai, Indian, July 25-29.
- Coles, V. J., M. T. Brooks, **R. R. Hood**, J. P. Montoya, M. R. Stukel, and P. L. Yager (2012) The role of the Amazon River plume in structuring upper ocean stratification, biochemistry, and biological communities in the western tropical North Atlantic. Ocean Sciences 2012 Conference, Salt Lake City, Utah, February 20-24.

- Brooks, M. T., V. J. Coles, M. R. Stukel, **R. R. Hood** (2012) Modeling the Amazon River plume. Ocean Sciences 2012 Conference, Salt Lake City, Utah, February 20-24.
- Hood, R. R.**, V. J. Coles, M. T. Brooks, M. R. Stukel (2012) Emergent microbial community structure and biogeochemical cycling in the Amazon River and plume. Ocean Sciences 2012 Conference, Salt Lake City, Utah, February 20-24.
- Yu, Z., McCreary, J. P., **R. R. Hood**, P. Vinayachandran et al. (2012) Modeling the formation of the Arabian Sea and Bay of Bengal oxygen minimum zones. Ocean Sciences 2012 Conference, Salt Lake City, Utah, February 20-24.
- Coles, V. J., **R. R. Hood**, M. R. Stukel, and P. L. Yager (2014) Modeling metagenomes and metatranscriptomes along the Amazon River plume gradient. Ocean Sciences 2014 Conference, Honolulu, Hawaii, February 24-28.
- Hood, R. R.**, P. G. Strutton, V. J. Coles, H. E. Phillips, and M. J. McPhaden (2014) Biogeochemical variability in the equatorial Indian Ocean in response to Wyrski jet forcing. Ocean Sciences 2014 Conference, Honolulu, Hawaii, February 24-28.
- Irby, I. D., M. Friedrichs, C. Friedrichs, **R. Hood**, and Y. Feng (2014) Skill assessment of multiple hypoxia models in the Chesapeake Bay and implications for management decisions. Ocean Sciences 2014 Conference, Honolulu, Hawaii, February 24-28.
- Ayers, J. M., P. G. Strutton, **R. R. Hood**, R. J. Matear, and V. J. Coles (2014) The Indonesian throughflow as a variable nutrient source for the Indian Ocean. Ocean Sciences 2014 Conference, Honolulu, Hawaii, February 24-28.
- Hood, R. R.**, L. Beckley and J. Wiggert (2014) Biogeochemical and Ecological Impacts of Boundary Currents in the Indian Ocean. IMBER Open Science Conference, Bergen Norway, June 23-27.
- Coles, V. J., **R. R. Hood** et al. (2014) Ship to silicon: Exploring genomics and transcriptomics along the Amazon River plume, Ocean Carbon and Biogeochemistry meeting, WHOI, July.
- Hood, R. R.**, L. Beckley and J. Wiggert (2015) Biogeochemical and Ecological Impacts of Boundary Currents in the Indian Ocean. IIOE 50th Anniversary Symposium. Goa, India, November 30.
- Hood, R. R.**, and the U.S. IIOE-2 Steering Committee (2015) US Activities and Plans. IIOE 50th Anniversary Symposium. Goa, India, December 4.
- Clark, J. B., W. Long and **R. R. Hood** (2015) Modeling marsh-estuary interactions in the Rhode River, Maryland. CSDMS Annual Meeting, Boulder Colorado, May 26-28.
- Clark, J. B., W. Long, **R. R. Hood**, M. Tzorziou and P. Neale (2015) Three dimensional modeling of a Chesapeake Bay tidal marsh-estuary ecosystem. FVCOM Users Workshop, October 20-22.
- Coles, V. J., **R. R. Hood** et al. (2015) Merging marine ecosystem models and genomics, AGU Fall Meeting, San Francisco, December 14-18.
- Friedrichs, M., A. Bever, **R. Hood**, K. Sellner (2015) Comparison of shallow water models for use in supporting Chesapeake Bay management decision-making. CERF Meeting, Portland Oregon, November 8-12.

- Pohl, K., J. Allen, V. J. Coles, **R. Hood**, et al. (2015). Investigative Science: Utilizing the SWMP data to uncover climate impacts in Chesapeake Bay. CERF Meeting, Portland Oregon, November 8-12.
- Pohl, K., V. J. Coles, **R. Hood**, et al. (2015). Chesapeake Bay climate extremes and variability: A recent past, present, and near future analysis. Geological Society of America Meeting, Baltimore, Maryland, November 1-4.
- Hood, R. R.**, V. J. Coles, A. Sutton and M. J. McPhaden (2016) Physical Forcing of Air-Sea Carbon Flux in the Bay of Bengal from the Bay of Bengal Ocean Acidification Mooring. AGU Ocean Sciences Meeting, New Orleans, Louisiana, February 22-26.
- Brooks, M.T., V. J. Coles, V.J., **R.R. Hood**, J. F. R. Gower (2016) Linking satellite observations with coupled bio-physical models of *Sargassum*, AGU Ocean Sciences, New Orleans, Louisiana, February 22-26.
- Hood, R. R.** (2016) The Second International Indian Ocean Expedition. Town Hall Meeting, AGU Ocean Sciences Meeting, New Orleans, Louisiana, February 22-26.
- Clark, J. B., W. Long, **R. R. Hood**, M. Tzortziou, and P. Neale (2016) Atmospheric forcing and marsh dissolved organic matter fluxes: Modeling and observations from a Chesapeake Bay tidal marsh-estuary ecosystem. AGU Ocean Sciences Meeting, New Orleans, Louisiana, February 22-26.
- Tay, J., and **R. R. Hood** (2016) Abundance and patchiness of *Chrysaora quinquecirrha* medusa from a high-frequency time series. AGU Ocean Sciences Meeting, New Orleans, Louisiana, February 22-26.
- North, E., J. Blair, J. Cornwell, A. Freitag, R. Gawde, T. Hartley, **R. Hood**, R. Jones, T. Miller, J. Thomas, L. Wainger, and M. Wilberg (2016) Integrating stakeholder objectives with natural system models to promote sustainable natural resource policy. AGU Ocean Sciences Meeting, New Orleans, Louisiana, February 22-26.
- Hood, R. R.** (2016) Visioning for the future of Chesapeake Bay Program modeling for 2018 and beyond (a CSDMS/CFRG, CCMP and STAC initiative). Community Surface Dynamics Modeling System (CSDMS) Annual Meeting, University of Boulder, Boulder Colorado, May 17-19.
- Clark, J. B., W. Long and **R. R. Hood** (2016) Mass conservative modeling of photochemical processes and biogeochemical cycling of dissolved organic matter. Ocean Carbon and Biogeochemistry Meeting, Woods Hole, Massachusetts, July 25-28.
- Coles, V.J., **R. R. Hood**, et al. (2016) Modeling the nitrogen cycle one gene at a time. AGU Ocean Sciences Meeting, New Orleans, Louisiana, February 22-26.
- Hood, R. R.**, (2017) Challenges in representing DOM and CDOM in Models. Ocean Carbon and Biogeochemistry Meeting, Woods Hole, Massachusetts, June 26-29.
- Coles, V.J., M. Stukel, M.A. Moran, and **R.R. Hood** (2017) Metabolic function not microbial taxonomy determines ocean biogeochemical gradients in a gene based marine ecosystem model. IMBER IMBIZO meeting, Woods Hole, Massachusetts, October 2-5.
- Coles, V.J., A. Sutton, M.J. McPhaden, and **R.R. Hood** (2017) Physical forcing of Air-Sea Carbon Flux in the Bay of Bengal from the Bay of Bengal Ocean Acidification Mooring

(15°N, 90°E). Second International Indian Ocean Expedition planning meeting, San Diego, CA, September 11-13.

- Hood, R. R.**, E. Urban, M. McPhaden, and L. Talley (2018) Update on the Second International Indian Ocean Expedition. Town Hall Meeting, AGU Ocean Sciences Meeting, Portland, Oregon, February 12-16.
- Coles, V.J., M. Stukel, M.A. Moran, and **R.R. Hood**, (2018) Metabolic function not microbial taxonomy determines ocean biogeochemical gradients in a gene based marine ecosystem model. AGU Ocean Sciences Meeting, Portland, Oregon, February 12-16.
- Clark, J. B., and **R. R. Hood** (2018) Development and application of a new mechanistic model of the photochemical degradation of colored dissolved organic matter (CDOM). AGU Ocean Sciences Meeting, Portland, Oregon, February 12-16.
- North, E. W., **R. R. Hood**, et al. (2018) OysterFutures: Testing a transdisciplinary approach and collaborative process for fisheries management. AGU Ocean Sciences Meeting, Portland, Oregon, February 12-16.
- Friedrichs, C. T., **R. R. Hood** et al. (2018) Hypoxia forecasts as a tool for Chesapeake Bay Fisheries. AGU Ocean Sciences Meeting, Portland, Oregon, February 12-16.
- Fang, C., **R. R. Hood** et al. (2018) Assessing dissolved organic carbon exchanges at wetland-estuarine interfaces using high resolution remote sensing and modeling approaches. AGU Ocean Sciences Meeting, Portland, Oregon, February 12-16.
- Morrisette, H., A. Pinsonneault, and **R. Hood** (2018) Effect of increasing complexity of the sediment flux model on dissolved organic matter interactions. Atlantic Estuarine Research Society Meeting, Rehoboth Beach, DE, April 6.
- Morrisette, H., A. Pinsonneault, and **R. Hood** (2018) Effect of increasing complexity of the sediment flux model on dissolved organic matter interactions. Chesapeake Research and Modeling Symposium, Annapolis, MD, June 13.
- Hood, R. R.**, J. Wiggert, V. Menezes, and L. Talley (2018) Update on the Second International Indian Ocean Expedition. Town Hall Meeting, AGU Meeting, Washington, DC, December 10.
- Morrisette, H., A. Pinsonneault, and **R. Hood** (2018) Sorption rate kinetic experiments to validate a sediment flux model. AGU Meeting, Washington, DC, Dec. 10-14.
- Morrisette, H., A. Pinsonneault, and **R. Hood** (2019) Dissolved organic carbon sorption rate kinetic experiments to validate a sediment flux model. ASLO Aquatic Sciences Meeting, San Juan, Puerto Rico, Feb. 23 – Mar. 2.
- Ziegler, L., and **R. R. Hood** (2019) Finite Volume Community Ocean Model (FVCOM) provides high spatio-temporal hydrodynamics to inform biogeochemical wetland-estuarine models. Ocean Carbon Biogeochemistry Meeting, Woods Hole, MA, June 24 - 27.
- North, E., M. Wilberg, J. Blair, J. Cornwell, M. Damiano, R. Gawde, T. Goelz, R. Jones, T. Hartley, C. Hayes, **R. Hood**, et al. OysterFutures: testing a collaborative modeling process for fisheries management. CERF 2019, Mobile Alabama, November 3-7.

- Gawde R., W. Long, E. North, **R. Hood**, M. Wilberg, H. Wang (2019) Integrating and applying three-dimensional models to simulate oyster ecosystem services. CERF 2019, Mobile Alabama, November 3-7.
- Wang, H., and **R. R. Hood** (2019) Particulate organic nitrogen transport and fate in Chesapeake Bay: A numerical study. CERF 2019, Mobile Alabama, November 3-7.
- Hood, R. R.**, E. Urban, M. McPhaden, and L. Talley (2020) Update on the Second International Indian Ocean Expedition. Town Hall Meeting, AGU Ocean Sciences Meeting, San Diego, CA, February 17-21.
- Morrisette, H. K., A. J. Pinsonneault, and **R. R. Hood** (2020) Resolving the dissolved organic matter sorption kinetics in marsh soils. AGU Ocean Sciences Meeting, San Diego, CA, February 17-21.
- Ziegler, L., and **R. R. Hood** (2020) Finite Volume Community Ocean Model (FVCOM) provides high spatio-temporal hydrodynamics to inform biogeochemical wetland-estuarine models. AGU Ocean Sciences Meeting, San Diego, CA, February 17-21.
- North, E. L., M. Wilberg, J. Blair, J. Cornwell, M. Damiano, R. Gawde, T. Goelz, R. Jones, T. Hartley, C. Hayes, **R. Hood**, et al. (2020) OysterFutures: testing a collaborative modeling process to enhance fisheries and ecosystem health. AGU Ocean Sciences Meeting, San Diego, CA, February 17-21.
- Morrisette, H. K., et al., and **R. R. Hood** (2021) Abiotic movement of dissolved organic matter through tidal marsh sediments. City University of New York, Department of Environmental Science, spring/summer, 2021.
- Morrisette, H. K., et al., and **R. R. Hood** (2021) Temporal and spatial variability of marsh sediment dissolved organic matter sorption. Smithsonian Environmental Research Center, spring/summer 2021.
- Horemans, D. L., M. A. M Friedrichs, P. St-Laurent, **R. R. Hood**, and C. W. Brown (2022) Forecasting Harmful Algal Blooms in the Chesapeake Bay Using Empirical Habitat Models. U.S. Symposium on Harmful Algae, Albany, New York, October 24.
- Horemans, D. L., M. A. M Friedrichs, P. St-Laurent, **R. R. Hood**, and C. W. Brown (2022) Forecasting Harmful Algal Blooms in the Chesapeake Bay Using Empirical Habitat Models. Chesapeake Community Research Symposium, Annapolis, Maryland, June 6.
- Horemans, D. M. L., J. C. Lin, M. A. M Friedrichs, P. St-Laurent, **R. R. Hood**, and C. W. Brown (2023) Unraveling environmental factors controlling harmful algal blooms using generalized linear models. AGU Meeting, San Francisco, December 11-15.
- M. A. M Friedrichs, D. M. L. Horemans, P. St-Laurent, **R. R. Hood**, and C. W. Brown (2023) Using empirical habitat suitability models with mechanistic model output to forecast estuarine harmful algal blooms. AGU Meeting, San Francisco, December 11-15.
- Horemans, D. M. L., M. A. M. Friedrichs, P. St-Laurent, **R. R. Hood**, and C. W. Brown (2024) Predicting coastal harmful algal blooms with correlative species distribution models trained with mechanistic model output. AGU Ocean Sciences Meeting, New Orleans, February 19-23.
- Grossman, M., V. J. Coles, G. Shenk, and **R. R. Hood** (2024) Modeling the impacts of restoration and climate change on *Vibrio vulnificus* occurrence and distribution in

Chesapeake Bay. Chesapeake Community Research Symposium, Annapolis, Maryland, June 10 – 12.

Horemans, D. M. L., M. A. M. Friedrichs, P. St-Laurent, **R. R. Hood**, and C. W. Brown (2024) Unraveling environmental factors controlling harmful algal blooms in the Chesapeake Bay using generalized linear models. Chesapeake Community Research Symposium, Annapolis, Maryland, June 10 – 12.

Horemans, D. M. L., M. A. M. Friedrichs, P. St-Laurent, **R. R. Hood**, and C. W. Brown (2024) Forecasting harmful algal blooms in the Chesapeake Bay using empirical habitat models. AGU24 Annual Meeting, Washington D.C., December 9 – 13.

Elizabeth W North, Michael J Wilberg, Jeff Blair, Lisa A Wainger, Jeffrey C Cornwell, Robert M Jones, Chris Hayes, Rasika Gawde, **Raleigh R Hood**, Taylor Goelz, Troy W Hartley, Marvin Mace III, Memo Diriker, Niquinn Fowler and Brian Polkinghorn (2024) The consensus solutions process with collaborative modeling applied to co-production of management options for a contentious oyster fishery. AGU24 Annual Meeting, Washington D.C., December 9 – 13.

Victoria Coles, Ansh Shah, Marshall Grossman, **Raleigh R Hood** and Ryan J Woodland (2024) Chesapeake Global Collaboratory: Bringing advanced modeling and data collection to the co-development of knowledge and decision making. AGU24 Annual Meeting, Washington D.C., December 9 – 13.

Thompson, P., L. E. Beckley, **R. R. Hood**, H. Philips, M. Landry, and Patel (2025) International Indian Ocean Expedition 2. IIOSC 2025. Then and Now: 1963 to 2019. IIOSC Meeting, Hyderabad, India, December 1 – 5, 2025.

Coles, V., M. Gray, X. Guo, **R. Hood**, T. Murphy, M. O'Brien, C. Rowe, and R. J. Woodland (2025) Leveraging the power of big data to model landscape-scale metabolism in Chesapeake Bay. CERF Meeting, Richmond VA., November 9 – 12, 2025.

Horemans, D. M. L., M. A. M. Friedrichs, P. St-Laurent, **R. R. Hood**, and C. W. Brown (2025) The importance of mixotrophy for estuarine phytoplankton growth and nutrient cycling. CERF Meeting, Richmond VA., November 9 – 12, 2025.

2. Web sites (past and present)

Kohler, K. E., **R. R. Hood**, and J. P. McCreary (2000) Arabian Sea Test Bed for 1-Dimensional Biological Models: <http://www.nova.edu/ocean/arabsea/testbed/testbed.html>

Brown, C., **R. R. Hood**, et al. (2000) Mapping Sea Nettles in Chesapeake Bay: <http://155.206.18.162/seanettles/>

Brown, C., **R. R. Hood**, et al. (2000) Mapping Harmful Algal Blooms in Chesapeake Bay: http://155.206.18.162/cbay_hab/

Brown, C., **R. R. Hood**, et al. (2000) Mapping Pathogens in Chesapeake Bay: <http://155.206.18.162/pathogens/>

Friedrichs, M. A. M., **R. R. Hood**, et al. (2003) US JGOFS Regional Ecosystem Testbed Project: <http://www.ccpo.odu.edu/TESTBED>

Coles, V. J., A. G. Willey and **R. R. Hood** (2006) Oceanography at the University of System of Maryland: <http://ocean.umd.edu>

Hood, R. R., J. D. Wiggert and S. W. A. Naqvi (2010) SIBER Sustained Indian Ocean Biogeochemical and Ecosystem Research:
<http://www.imber.info/index.php/Science/Regional-Programmes/SIBER>

Prakash, S., **R. R. Hood**, J. D. Wiggert and S. W. A. Naqvi (2011) SIBER Sustained Indian Ocean Biogeochemical and Ecosystem Research:
<http://www.incois.gov.in/Incois/siber/siber.jsp>

Friedrichs, M. A. M., **R. R. Hood**, et al. (2017) Chesapeake Bay Hypoxia Forecast:
http://www.vims.edu/research/topics/dead_zones/forecasts/cbay/index.php

Hood, R. R., M. Maheigan, E. Urban, et al. (2018) US IIOE-2 Steering Committee Website:
<https://web.whoi.edu/iioe2/>

F. Active Memberships in Professional Societies

Association for the Sciences of Limnology and Oceanography
American Geophysical Union
Coastal and Estuarine Research Federation

IV. TEACHING AND TRAINING

1996-present Member, UMCP Graduate Faculty

A. University System of Maryland Courses Taught

Course No. No Lectures	Title	Institution	Semester	Enrolment	Credit Hrs.	Co-Instructors
MEES 621 <i>Biological Oceanography</i> 2 sessions		UM/MEES	Spring 1996	21	3	Fisher, Stoecker
MEES 621 <i>Biological Oceanography</i> 12 sessions		UM/MEES	Spring 1997	17	3	Stoecker, Koch
MEES 621 <i>Biological Oceanography</i> 12 sessions*		UM/MEES	Spring 1998	21	3	Stoecker, Koch
MEES 621 <i>Biological Oceanography</i> 12 sessions*		UM/MEES	Spring 1999	13	3	Stoecker, Koch
MEES 621 <i>Biological Oceanography</i> 13.5 sessions*		UM/MEES	Spring 2000	18	3	Stoecker, Koch Kennedy
MEES 621 <i>Biological Oceanography</i> 13.5 sessions*		UM/MEES	Spring 2001	10	3	Stoecker, Koch Kennedy
MEES 621 <i>Biological Oceanography</i> 13.5 sessions*		UM/MEES	Spring 2002	20	3	Stoecker, Koch Kennedy
MEES 621 <i>Biological Oceanography</i> 11 sessions* ζ		UM/MEES	Fall 2003	32	3	Stoecker, Koch, Kennedy
MEES 621 <i>Biological Oceanography</i> 11 sessions* ζ		UM/MEES	Fall 2004	11	3	Stoecker, Koch, Kennedy

MEES 621 Biological Oceanography 11 sessions* ζ	UM/MEES	Fall 2005	7	4	Stoecker, Koch, Kennedy
MEES 621 Biological Oceanography 11 sessions* ζ	UM/MEES	Fall 2006	11	4	Stoecker, Koch, Kennedy
MEES 621 Biological Oceanography 12 sessions* ζ	UM/MEES	Fall 2007	8	4	Stoecker, Koch, Kennedy
MEES 621 Biological Oceanography 11 sessions* ζ	UM/MEES	Fall 2008	11	4	Stoecker, Koch, Kennedy
MEES 621 Biological Oceanography 11 sessions* ζ	UM/MEES	Fall 2009	10	4	O'Neil, Koch, Kennedy
MEES 621 Biological Oceanography 10 sessions* ζ	UM/MEES	Fall 2010	16	4	O'Neil, Koch, Kennedy
MEES 621 Biological Oceanography 10 sessions* ζ	UM/MEES	Fall 2011	15	4	O'Neil, Koch, Kennedy
MEES 621 Biological Oceanography (remote participation and grading)	UM/MEES	Fall 2012	8	4	O'Neil, Koch, Kennedy
MEES 621 Biological Oceanography 12 sessions* ζ	UM/MEES	Fall 2013	22	4	O'Neil, Plough,
MEES 621 Biological Oceanography 14 sessions* ζ	UM/MEES	Fall 2014	14	4	O'Neil, Plough,
MEES 621 Biological Oceanography 14 sessions* ζ	UM/MEES	Fall 2015	17	4	O'Neil, Plough,
MEES 621 Biological Oceanography 14 sessions* ζ	UM/MEES	Spring 2017	11	4	O'Neil, Plough,
MEES 621 Biological Oceanography 14 sessions* ζ	UM/MEES	Spring 2018	10	4	O'Neil, Plough,
MEES 621 Biological Oceanography 14 sessions* ζ	UM/MEES	Spring 2019	12	4	O'Neil, Plough,
MEES 621 Biological Oceanography 14 sessions*	UM/MEES	Spring 2020	12	4	O'Neil, Plough,
MEES 621 Biological Oceanography 14 sessions* ζ	UM/MEES	Spring 2021	8	4	O'Neil, Plough,
MEES 621 Biological Oceanography 14 sessions* ζ	UM/MEES	Spring 2023	15	4	O'Neil, Plough,
MEES 621 Biological Oceanography 14 sessions* ζ	UM/MEES	Spring 2024	12	4	O'Neil, Plough,
MEES 621 Biological Oceanography 14 sessions* ζ	UM/MEES	Spring 2025	11	4	O'Neil, Plough,
MEES 608I <i>Essential Papers on the</i> 15 sessions* <i>Chesapeake Bay and It's Watershed</i>	UM/MEES	Fall 1996	18	1	
MEES 698B <i>Biological Oceanographic</i> 2 sessions* <i>Methods</i>	UM/MEES	Spring 1999	4	1	Stoecker, Koch, Kennedy Kana, Roman, Miller
MEES 698B <i>Biological Oceanographic</i> 2 sessions* <i>Methods</i>	UM/MEES	Spring 2000	4	1	Stoecker, Koch, Kennedy Miller
MEES 698B <i>Biological Oceanographic</i> 2 sessions* <i>Methods</i>	UM/MEES	Spring 2001	3	1	Stoecker, Koch, Kennedy Miller

* Lead Instructor (organized course and responsible for grades)

ζ Also led 1 full day field trip/plankton cruise and helped to organize/schedule one additional field trip for this course

B. Students Supervised as Major Advisor

1. REU and Student Interns Supervised (past and present)

Heather Stickney, numerical modeling, summer 1999

Rebecca Owens, sea nettle observational studies, summer 2002

Judith Sarkodee-Adoo, sea nettle observational studies, summer 2007

Amanda Liss, sea nettle observational studies, summer 2008

Jonny Diehl, sea nettle observational studies, summer 2010

Isaac Keohane, modeling oyster filtration, summer 2016

Isaac Keohane, modeling oyster filtration, summer 2017-2018

2. Graduate Students Supervised (past)

Joseph Matanoski, Ph.D. Biological Oceanography, MEES, Horn Point Laboratory, swimming behavior of gelatinous zooplankton. **R. R. Hood, Committee Chairman, Defended Fall Semester, 2004.**

Jiangtao Xu, Ph.D., Physical Oceanography, MEES, Horn Point Laboratory, Chesapeake Bay biogeochemical modeling. **R. R. Hood, Committee co-Chairman and lead advisor** with S.-Y. Chao, *Defended Fall Semester, 2004.*

Jon Anderson, Ph.D., Ecology, MEES, Horn Point Laboratory, ecosystem modeling and Mixotrophy, **R. R. Hood, Committee Chairman, Graduated Fall Semester, 2001.**

Maureen Brooks, M.S., Ecology, MEES, Horn Point Laboratory, ecosystem modeling and trophic transfer efficiency, **R. R. Hood, Committee co-Chairman** with Michael Kemp, *Graduated Spring Semester, 2003.*

David Keller, Ph.D., Biological Oceanography, MEES, Horn Point Laboratory, DOM cycling and modeling, **R. R. Hood, Committee Chairman, Graduated Fall Semester, 2010.**

Daniel Lee, M.S., Biological Oceanography, MEES, Horn Point Laboratory, Oxygen and community metabolism in the Estuarine Turbidity Maximum, **R. R. Hood, Committee chairman. Graduated Fall Semester, 2010.**

Margaret Sexton, Ph. D. Biological Oceanography, MEES, Horn Point Laboratory, Factors influencing Sea Nettle (*Chrysaora quinquecirrha*) in Chesapeake Bay. **R. R. Hood, Committee Chairman. Graduated Fall Semester, 2012.**

Long Jiang, Ph.D. Biological Oceanography, MEES, University of Maryland Eastern Shore, Biogeochemical Modeling in Chesapeake Bay, **R. R. Hood, Committee Co-Chairman** with Meng Xia. *Stepped down from committee Fall Semester, 2014.*

Andrew Leight, Ph.D. Biological Oceanography, MEES/UMCES, Horn Point Laboratory, Modeling pathogens in Chesapeake Bay. **R. R. Hood, Committee Chairman. Graduated Fall Semester, 2017.**

Blake Clark, Ph.D. Biological Oceanography, MEES/UMCES, Horn Point Laboratory, Modeling

marsh DON and DOC fluxes, **R. R. Hood, Committee Chairman**. *Graduated Spring Semester, 2019.*

Thomas Butler, M.S. Earth and Ocean Sciences, MEES/UMCES, Horn Point Laboratory, Modeling human impacts on water quality and living resources, **R. R. Hood, Committee Chairman**. *Graduated Fall Semester, 2019.*

Jacqueline Tay, Ph. D. Biological Oceanography, MEES/UMCES, Horn Point Laboratory, Factors influencing Sea Nettle (*Chrysaora quinquecirrha*) in Chesapeake Bay. **R. R. Hood, Committee Chairman**. *Graduated Summer Semester, 2020.*

Timothy Wynne, Ph. D. Biological Oceanography, MEES/UMCES, Horn Point Laboratory, Remote Sensing of Amazon and Mississippi River Influences. **R. R. Hood, Committee Chairman**. *Graduated Summer Semester, 2020.*

Hao Wang, Ph. D. Physical Oceanography, MEES/UMCES, Horn Point Laboratory, Biogeochemical Modeling in Chesapeake Bay, **R. R. Hood, Committee Chairman**. *Graduated Summer Semester, 2020.*

Hannah Morrisette, Ph.D. Earth and Ocean Sciences, MEES/UMCES, Horn Point Laboratory, Modeling marsh DON and DOC fluxes, **R. R. Hood, Committee Chairman**, *Graduated Summer Semester, 2021.*

Marshall Grossman, M.S. Earth and Ocean Sciences, MEES/UMCES, Horn Point Laboratory, Modeling vibrio occurrence in Chesapeake Bay, **R. R. Hood** and V. J. Coles, **Committee Co-Chairs**, *Graduated Spring Semester, 2025.*

3. Graduate Students Supervised (present)

4. Graduate Student Committees (past)

Gabriela Smalley, Ph.D., MEES, HPL
Ying Chen, Ph.D., MEES, CBL
Lori Roth, M.S., MEES, CBL
Shih-nan Chen, MEES, HPL
David Miller, Ph.D., MEES, HPL
David Sheurer, Ph.D., MEES, AL
Jennifer Massagli, Comp. Examination Committee, Biology Department, UMCP
Edward Martino, Ph.D., MEES, CBL
Ji Li, Ph.D., MEES, HPL (resigned from committee)
Ryan Woodland, Ph.D., MEES, CBL
Michael Malpezzi, M.S., MEES, HPL
Caroline Fortunato, Ph.D., MEES, HPL
Kelly Haisfield, M.S., UMCP, non-thesis masters, external reviewer
Kristi Shaw, Ph.D., MEES, HPL
Daniel Lee, Ph.D., MEES, HPL
Ike Irby, Ph.D., VIMS, William and Mary
Fei Da, M.S., VIMS, William and Mary
Maureen Brooks, Ph.D., MEES, HPL
Susan Shahrestani, Ph.D., MEES, CBL
Aimee Neeley, Ph.D., MEES, CBL
Kyle Hinson, Ph.D., VIMS, William and Mary
Anna Windle, Ph.D., MEES, HPL

5. External Examination Committees (past)

Ranga Rama Seshan B, Ph.D., Anna University, Chennai, India (past)
Y.J.S. Jose, Ph.D., University of Cape Town, South Africa (past)
A. Chelsky, Ph.D., Griffith University, Nathan, Australia (past)
V. Thushara, Ph.D., Indian Institute of Science, Bangalore, India (past)
T. Mathew, Ph.D., Kerala University of Fisheries and Ocean Studies, Kochi, India (past)
L. Shenoi, Ph.D., Kerala University of Fisheries and Ocean Studies, Kochi, India (past)
R. Prasanth, Ph.D., Cochin University of Science and Technology, Cochin, India (past)

6. Graduate Student Committees (present)

7. Postdocs advised (past)

Xinsheng Zhang, HAB modeling (1998-2000, co-advisor with M. Roman)
Elizabeth North, ETM and particle transport modeling (2001 – 2004)
Jiangtao Xu, Oyster filtration modeling and Estuarine Physical Modeling (2005 – 2007)
Jerry Wiggert, Estuarine biogeochemical modeling (2007)
Chisato Yoshikawa, Basin-scale biogeochemical modeling (2007-2008)
Zhi-Ping Mei, Amazon River microbial community modeling (2010 – 2011)
Wen Long, Estuarine physical and biogeochemical modeling (2005 – 2011)
Michael Stukel, Amazon River and tropical biogeochemical Modeling (2011 – 2014)
Xiaofu Xu, Quantifying zooplankton biomass with ADCP data, (2015 – 2016)
Kari Pohl, Climate variability and change in Chesapeake Bay (2014 – 2016)
Rasika Gawde, Biogeochemical and Oyster Filtration Modeling (2015 – 2017)
Jinhua Wang, Particle Transport Modeling in Chesapeake Bay (2018-2019)

8. Postdocs advised (present)

V. OUTREACH AND SERVICE

A. Editorships, Journal and Proposal Review Service

- Typically review ~1-5 proposals per year for the US National Science Foundation
- Managing Guest Editor for Deep-Sea Research, Part II, volumes 1-9, 2015 - present

B. Public Service and Outreach

- Presentations to the following groups on HPL research activities:
- Senator Barbara Mikulski's staff, 1997
- Dorchester County Americans for the Competitive Enterprise System, 1997/98/99.
- Senior Lawyers of the Maryland State Bar Association, 1997
- Research Education for Undergraduates HPL Summer Program, 1996/97/98/99
- Maryland Space Grant Consortium, Earth Observations from Space Course, 1998
- HPL Env. Edu. Workshop for Eastern Shore High School Teachers, 1999
- Governor's Special assistant for assessment of Maryland technology resources, 2000
- Sandy Hill Elementary School, 1st Grade Class, Spring 2001.
- Society for Environmental Journalists, Baltimore MD., Fall 2002
- CRC Virginia-Maryland Natural Resources Colloquium, Fairfax Co., VA., Fall 2002
- Initiated and chaired the HPL/UMCES Christmas Float committee, Fall 2002

- Interview for Virginia Newspaper on Sea Nettle Nowcasting project, Summer, 2003
- Chair HPL/UMCES Christmas Float committee, Fall 2003
- Interview for local News TV Broadcast on DNR EIS modeling Activities, Spring 2004
- Interview for local News TV Broadcast on impacts of high precipitation and runoff, Summer 2004
- HPL Open House Poster Presentation, Fall 2004
- Chair, HPL/UMCES Christmas Float committee, Fall 2004
- HPL Open House Poster Presentation, Fall 2006
- Chair, HPL/UMCES Christmas Float committee, Fall 2006
- HPL Open House Poster Presentation, Fall 2007
- Chair, HPL/UMCES Christmas Float committee, Fall 2007
- HPL Open House Poster Presentation, Fall 2008
- HPL Open House Committee, Fall 2008
- Chair, HPL/UMCES Christmas Float committee, Fall 2008
- HPL Open House Committee, Fall 2009
- HPL/UMCES Christmas Float committee, Fall 2009
- HPL/UMCES Christmas Float committee, Fall 2010
- HPL Open House Poster Presentation, Fall 2011
- HPL Chesapeake Champion Award Ceremony, Invited Participant, September 25, 2013
- HPL Open House Poster Presentation, Fall 2013
- HPL/UMCES Christmas Float committee, Fall 2013
- HPL Open House Poster Presentation, Fall 2014
- HPL Open House Touch Tank, Fall 2014
- HPL Open House Poster Presentation, Fall 2015
- HPL Open House Touch Tank, Fall 2015
- HPL Open House Poster Presentations, Fall 2016
- HPL Open House Poster Presentations, Fall 2018
- HPL Open House Poster Presentations, Fall 2019
- HPL Open House Poster Presentations, Fall 2022
- HPL Open House Poster Presentations, Fall 2023
- HPL Open House Poster Presentations, Fall 2024
- HPL Open House Poster Presentations, Fall 2025

C. UMCES and Horn Point Laboratory

- HPL Computer and Electronic Services Committee, Academic Year 1995/96
- TGIF Seminar Series, Organizer, Academic Year 1995/96
- HPL Seminar Committee, Chairman, Academic Year 1996/97
- HPL Education Committee, Academic Year 1997/98
- HPL Computer and Electronic Services Committee, Academic Year 1997/98
- HPL Postdoctoral Search Committee, Academic Year 1997/1998
- MEES interim Oceanography AOS co-chair Fall/Winter 1997/98
- HPL Search Committee (CES Unix System Administrator position), Fall 1997
- HPL Search Committee (CES Director of IT services position), Winter 1997/98
- HPL Information and Electronic Services Committee, Academic Year 1998/99
- HPL Search Committee (IES PC Administrator), Summer, 1999
- Chair, HPL Computer and Electronic Services Committee, Academic Year 1999/2000
- Facilities Renovation Committee (new wing construction), Spring 1999 - present
- Chair, HPL Computer and Electronic Services Committee, Academic Year 2000/2001
- Chair, HPL Computer and Electronic Services Committee, Academic Year 2001/2002
- HPL Search Committee for Microbial Ecologist position, Spring/Summer 2002.

- HPL Computer and Electronic Services Committee, Academic Year 2002/2003
- HPL IES Search Committee (IES Unix System Administrator), Fall 2003
- HPL Computer and Electronic Services Committee, Academic Year 2003/2004
- HPL Search Committee for Phys-Bio Interactions Fac. position, Summer/Fall 2004
- UMCES, Chair, Research Committee on UMCES Brand, UMCES Strategic Plan, Summer/Fall 2004
- Chair, HPL Computer and Electronic Services Committee, Academic Year 2004/2005
- Chair, UMCES Branding sub-committee, UMCES Strategic Plan, Summer/Fall 2004
- Chair, HPL Computer and Electronic Services Committee, Academic Year 2005/2006
- Co-Chair, HPL Seminar Committee, Academic Year 2006/2007
- HPL Computer and Electronic Services Committee, Academic Year 2006/2007
- UMCES Senator, three-year term, Fall 2006 – 2009
- HPL Computer and Electronic Services Committee, Academic Year 2007/2008
- HPL Education Committee, Academic Year 2008/2009
- UMCES Senator and Vice-Chair, two-year term, Fall 2009 – 2011
- HPL Education Committee, Academic Year 2009/2010
- Organizing Committee Co-Chair, UMCES Senate Faculty Convocation, Horn Point Laboratory, April 13-14, 2010
- HPL Education Committee Chair, Academic Year 2010/2011
- HPL Director Review Committee Chair, Spring 2011
- HPL Education Committee Chair, Academic Year 2011/2012
- UMCES Faculty Senate Chair, Fall 2011 – Fall 2015
- UMCES Graduate Faculty Council, Fall 2013-2014
- HPL Education Committee, Academic Year 2012/2013
- HPL Education Committee, Academic Year 2013/2014
- UMCP MEES Curriculum Committee, Academic Year 2013/2014
- Faculty Senate UMCES Convocation Organizing Committee, Spring 2014
- HPL Computer and Electronic Services Committee, Academic Year 2014/2015
- UMCES Accreditation Working Group V, Academic Year 2014/2015
- UMCES Accreditation Steering Committee, Academic Year 2014/2015
- UMCES Accreditation Steering Committee, Summer/Fall 2015
- UMCES Appalachian Laboratory Ecosystem Modeler Search Committee, Spring 2015
- UMCES Horn Point Laboratory Cluster Hire Search Committee, Spring 2015
- UMCP MEES Curriculum Restructuring Committee, Academic Year 2014/2015
- UMCES Faculty Senate Vice President Review Committee, Winter – Spring, 2015
- CBL Faculty Promotion Review Committee (Hongsheng Bi), Winter – Spring, 2015
- Faculty Senate UMCES Convocation Organizing Committee, Spring 2015
- HPL Computer and Electronic Services Committee, Academic Year 2015/2016
- UMCES Appalachian Laboratory ESM Hire Search Committee, Summer/Fall 2015
- HPL Microbial Ecologist Search Committee Chair, Fall 2016 – Fall 2018
- CBL Faculty Promotion Review Committee (Mike Wilberg), Fall 2016 – Spring 2017
- CBL Faculty Promotion Review Committee (Michael Gonsior), Fall 2017 – Spring 2018
- HPL Faculty Promotion Review Committee Chair (Jamie Pierson), Fall 2017 – Spring 2018
- Senior Faculty Promotion Review Committee (Palinkas, Castro, Hilderand), Fall 2017 – Spring 2018
- AL Faculty Emeritus Review Committee (Edward Gates), Fall 2017 – Spring 2018
- HPL Faculty Promotion Review Committee Chair (Louis Plough), Fall 2018 – Spring 2019
- CBL Faculty Promotion Review Committee (Jackie Grebmier), Fall 2019 – Spring 2020
- CBL Faculty Promotion Review Committee (Hongsheng Bi), Fall 2020 – Spring 2021
- HPL Computer and Electronic Services Committee, Academic Year 2020/2021
- HPL Computer and Electronic Services Committee, Academic Year 2021/2022
- HPL Education Committee Chair, Academic Year 2022/2023
- HPL Boat Committee, Academic Year 2022/2023

- HPL Faculty Promotion Review Committee Chair (Jamie Pierson), Fall 2023 – Spring 2024
- HPL Education Committee Chair, Academic Year 2023/2024
- HPL Boat Committee, Academic Year 2023/2024
- UMCES Scientific Misconduct Review Committee, Spring 2024
- UMCES Comprehensive Review Committee, Spring 2024
- HPL Education Committee Chair, Academic Year 2024/2025
- UMCES Strategic Planning Committee co-Chair, Academic Year 2024/2025
- HPL Environmental Education Committee Chair, Academic Year 2024/2025
- HPL Education Committee, Academic Year 2025/2026
- UMCES Strategic Planning Committee co-Chair, Academic Year 2025/2026
- HPL Environmental Education Committee Chair, Academic Year 2025/2026

D. Local/National/International

- NOAA, NCOP proposal review panel, October 24, 1995.
- NASA Satellite Ocean Primary Productivity Workshop, June 11-13, 1996, Goddard Space Flight Center, Greenbelt, MD.
- Patuxent Wildlife Research Center Workshop, *Opportunities for Collaborative Research*, August 8, 1996, Patuxent Wildlife Research Center, Laurel, MD.
- U.S. JGOFS Synthesis and Modelling Project Workshop, August 13-19, 1996, Durham NH.
- U.S. JGOFS Arabian Sea Process Study Workshop, July 8-14, 1997, Durham NH..
- NASA SeaWiFS Science Team Workshop, January 6-9, 1998, Baltimore MD.
- U.S. JGOFS Synthesis and Modelling Project Workshop, July 13-1, 1998, Durham NH.
- U.S. JGOFS Synthesis and Modelling Project Workshop and PI Meeting, July, 1999, Keystone CO.
- RIDGE 2000 Workshop, Hatfield Marine Science Center, September 20-23, 1999, Newport, OR.
- Co-Chairman, U.S. JGOFS SMP Working Group on Marine Nitrogen Fixation, June 1998-present
- U.S. JGOFS SMP Workshop, Conceptual and Practical Issues in Modelling Oceanic Nitrogen Fixation, Catalina Island, CA., September 27-30, 1999.
- NASA, Ocean Vector Winds proposal review panel, November 21-22, 1999.
- NSF, Ecological Determinants of the Oceanic Carbon Cycle, Timberline Lodge, OR., March 12-15
- NASA, Oceanography Review Panel, September 26-29, 2000.
- U.S. JGOFS Synthesis and Modelling Project Workshop and PI Meeting, July, 2000, WHOI, MA.
- Harmful Algal Bloom Observing System (HABSOS) Workshop, November 2000, Pensacola, FL.
- NASA, Oceanography Proposal Review Panel, May, 2001.
- RIDGE Workshop, Larval Biology, Dispersal and Gene Flow at Hydrothermal Vents: Results Symposium, May, 2001, Ogden Utah.
- U.S. JGOFS SMP Workshop, Assessing the Role of Calcification in the Ocean Carbon Cycle, June, 2001, WHOI, MA.
- NOPP, Oceanography Proposal Review Panel, July, 2001.
- U.S. JGOFS Synthesis and Modelling Project Workshop and PI Meeting, July, 2001, WHOI, MA.
- Chairman, CRC Exploratory Committee for the Promotion, and Development of Community Models for the Chesapeake Bay Region, January – August, 2002.
- U.S. JGOFS Synthesis and Modelling Project Workshop and PI Meeting, July, 2002, WHOI, MA.
- Chief organizer, CRC Community Modeling Project Workshop, June, 2002, Annapolis MD.

- External Thesis Reviewer, Ph.D. Dissertation of Lynne Caryn McArthur, U. South Australia, Sept, 2002
- Chairman, CRC Community Modeling Project Steering Committee, August 2002 to present.
- U.S. JGOFS SMP Model Intercomparison Testbed Workshop, ODU/CCPO, Norfolk VA, March, 2003
- Chairman, CRC CCMP Search Committee for Program Manager, Dec. 02 – June 03.
- Steering committee for the development of a Pacific subtropical process study as part of CLIVAR, May-December, 2003
- NSF Cabled Observatory Workshop, San Francisco, CA., October 2003
- CRC Community Modeling Project Workshop, VIMS, Gloucester VA, November, 2003
- CBP Coupling Water Quality and Upper Trophic Level Modeling workshop, Annapolis MD, Jan. 8, 2004
- CRC CCMP Physical Modeling Workshop, Fredericksburg, VA., February 27, 2004
- U.S. JGOFS Synthesis and Modelling Project Workshop and PI Meeting, July, 2004, WHOI, MA.
- Co-organizer, CRC CCMP Watershed Modeling Workshop, Baltimore, MD, September 24, 2004
- Contributions on biogeochemical measurements and modeling to the CLIVAR/GOOS Indian Ocean Panel Report/planning document, "Understanding the role of the Indian Ocean in the climate system – implementation plan for sustained observations", February, 2005.
- 2005, Estuarine Research Federation Special Session Convener, Chesapeake Bay Colloquium, COL-15: "Basin modeling for research and management"
- 2005, Estuarine Research Federation Special Session Convener, SPS-20: "Ecosystem based management"
- Chairman, Sustained Indian Ocean Biogeochemical and Ecosystem Research (SIBER) Workshop Planning Committee, Fall 2005 – Fall 2006.
- CLIVAR Indian Ocean Panel meeting, Honolulu HI, February 2006.
- Guest Panel member, CLIVAR Indian Ocean Panel, February, 2006 – present.
- AGU Biological Oceanography Secretary, July 2006 – July 2008.
- 2006, AGU Ocean Sciences Special Session Convener, 22K, 23M, 24N, 26K, "The Indian Ocean: Recent discoveries, links to global climate, atmosphere-ocean interaction, physical and biogeochemical response", Honolulu, HI, February 2006
- 2006, Chair and lead organizer, Sustained Indian Ocean Biogeochemical and Ecosystem Research (SIBER), International program development Workshop, Goa India, October 3-6.
- Fall 2006 – Spring 2007, program committee member, AGU Joint Assembly Meeting, Acapulco Mexico, 22-25 May, 2007
- Summer 2006 – Present, Chair "Oceanography at the University System of Maryland", ad hoc planning and development committee for the promotion of coordinated oceanographic research and education at UM
- 2007, ASLO Aquatic Sciences Meeting, Special Session Co-convener, Special Session on DOM production and cycling in marine systems, Santa Fe, NM, February 4-9.
- 2007 Invited participant, CLIVAR IOP meeting, Pretoria, South Africa, Apr. 23 -25
- 2007, Chair and lead organizer, Sustained Indian Ocean Biogeochemical and Ecosystem Research (SIBER), International program development Workshop, Goa India, November, 27-30
- 2007 Invited participant, IOGOOSV meeting, Phuket, Thailand, Dec. 4
- AGU Biological Oceanography Secretary, July 2008 – July 2010.
- Co-organizer and Session Chair, CCMP CheMS08 Symposium, Annapolis, MD, May 12-14, 2008.
- 2008, Invited participant, GLOBEC-IMBER Transition Task Team Meeting, Washington, DC, December 15.
- 2008 – 2010, Chair, SIBER program interim Scientific Steering Committee
- Feb. 2009 – Feb. 2010, Organizing Committee Chair, AGU 2010 Ocean Science Meeting
- 2009, AGU Section Nomination Committee

- 2009-2010, Regional Comparisons Workshop co-Chair, IMBER IMBIZO II, Crete, Greece, October 10-14
- 2009-2010, Organizing Committee Chair, ChesMS10 Symposium, Annapolis, Maryland, May 10-11
- 2009-2010, Organizing Committee and SSC Chair, SIBER SSC 1, Perth, Australia, July 12-16
- 2010, Ocean Sciences Meeting, Special Session Convener, "The Indian Ocean: Recent Advances in Physical, Biogeochemical, and Ecosystem Dynamics", Portland, Oregon, February 22-26
- 2010– present, Chair, SIBER Scientific Steering Committee
- 2010-2011, Organizing Committee and SSC Chair, SIBER SSC 2, Chennai, India, July 25-29
- 2010-2011, Hydrodynamic Modeling Workshop, Organizing Committee Chair, Edgewater Maryland, June 9-10
- 2011, ASLO Aquatic Sciences Meeting, Emerging Issues Workshop Participant, "Implications of Increased Carbon Supply and Artificial Habitat for the Global Expansion of Jellyfish Blooms", San Juan, Puerto Rico, February 12-13
- 2011, ASLO Aquatic Sciences Meeting, Special Session Convener, "Ecological Forecasting: Progress, Challenges and Prospects", San Juan, Puerto Rico, February 14-15
- 2011-2012, Organizing Committee Chair, ChesMS12 Symposium, Annapolis, Maryland, May 21-22
- 2011-2012, Organizing Committee and SSC Chair, SIBER SSC 3, Cape Town, South Africa, October 15-17
- 2011, PAL LTER Review Panel, Antarctica, December 2-21
- 2012, Ocean Sciences, Special Session Convener, "Infusing Biogeochemistry with Ecosystem Science", Salt Lake City, Utah, February 20-24
- 2012, Chesapeake Modeling Symposium 2012, Special Session Co-convener, "Observations and Physical-Biogeochemical Modeling at the Fringes: Land-Water and Air-Water Interactions", Annapolis, Maryland, May 21st
- 2012, Chesapeake Modeling Symposium 2012, Special Session Convener, "Interfacing Between Modeling, Management and the Public: TMDLs, Politics, Litigation and Conflicting Stakeholder Interests", Annapolis, Maryland, May 22nd
- 2012, AOGS-AGU Joint Assembly Meeting, Special Session Convener, "Physical and biogeochemical processes in the Indian Ocean: Recent progress and toward future collaborations", Singapore, August 13-17
- 2010 – 2012, lead-editor, Journal of Marine Systems Special Issue on Regional Comparative Studies
- 2012-2013, co-editor, Biogeosciences Special Issue on Current Biogeochemical and Ecosystem Research in the Northern Indian Ocean.
- 2012 - 2013, Sabbatical Leave, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Hobart Tasmania
- 2012 – 2014, IMBER Open Science Conference Organizing Committee
- 2012-2014, Organizing Committee and Chair, IIOE-2 Reference Group
- 2013, co-Convener, IIOE-2 Reference Group Meeting No. 1, Hyderabad, India, May 14-15
- 2012-2013, Organizing Committee and SSC Chair, SIBER SSC 4, LiJiang, China, July 9-12
- 2013-2014, Organizing Committee Chair, ChesMS14 Symposium, Annapolis, Maryland, May 28-29
- 2013, participant, EIOURI Workshop No. 2, Qingdao, China, Nov. 18-19
- 2013, co-Convener, IIOE-2 Reference Group Meeting No. 2, Qingdao, China, Nov. 20-21
- 2014, participant, EIOURI Writing Workshop, Phuket, Thailand, April 9-12
- 2013-2014, Organizing Committee Chair, ChesMS12 Symposium, Annapolis, Maryland, May 28-29
- 2014, participant and presenter, EIOURI Final Workshop, IMBER Open Science Conference, Bergen, Norway, June 24
- 2014, GFDL Laboratory Review Panel, Princeton, New Jersey, May 20-22

- 2013-2014, Organizing Committee and SSC Chair, SIBER SSC 5, Phuket, Thailand, Oct. 29-31
- 2014-present, Chair, CSDMS Chesapeake Focus Research Group
- 2014-present, member, CSDMS Executive Committee
- 2014-2015, Chair, SCOR IIOE-2 Science Plan Development Committee
- 2014, Convener, SCOR IIOE-2 Science Plan Development Committee Meeting, Bremen, Germany, Sept. 12-13
- 2014, Lead Convener, joint meeting of program managers from NSF, ONR, NASA and NOAA at the National Science Foundation on the 2nd International Indian Ocean Expedition, Arlington, VA, Dec. 8
- 2014, Lead Convener, AGU Town Hall Meeting, Planning for the Second International Indian Ocean Expedition, San Francisco, Dec. 18
- 2015, member of the IOC IIOE-2 Interim Planning Committee, Dec. 2014-Dec. 2015
- 2015, IOC IIOE-2 Interim Planning Committee Meeting, UNESCO, Paris, France, April. 20-21
- 2015, IOC IIOE-2 Interim Planning Committee Meeting, INCOIS, Hyderabad, India, Nov. 19-20
- 2014 - 2015, Organizing Committee and SSC Chair, SIBER SSC 6, Goa, India, Dec. 7-8
- 2015 – present, Chair U.S. IIOE-2 Steering Committee
- 2015 – present, Board Member, Indigo V Expeditions
- 2016 – 2018, Organizing Committee Chair, STAC Visioning Workshop for CBP modeling
- 2016 - 2017, Organizing Committee and SSC Chair, SIBER SSC 7, Perth, Australia, Jan. 30 – Feb. 3
- 2016, Lead Convener, Ocean Sciences Town Hall Meeting, Planning for the Second International Indian Ocean Expedition, New Orleans, Feb. 25
- 2016, co-Convener, From monsoons to mixing: coupled ocean-atmosphere processes and biogeochemical response in the Indian Ocean, AGU Ocean Sciences Meeting, New Orleans, Louisiana, Feb. 25
- 2016 – 2018, ChesMS18 Organizing Committee Chair
- 2016 – 2018, Organizing Committee Member, 4th Effects of Climate Change on the World's Oceans Symposium
- 2016 – present, Chesapeake Bay Program Modeling Workgroup member
- 2017 – present, Organizing Committee Chair, US IIOE-2 Planning Workshop
- 2017, lead-Convener, SESYNC International Workshop, Annapolis, MD, July 11-12
- 2017, lead-Convener, US IIOE-2 Science Planning Workshop, San Diego, SIO, September 11-13
- 2017, co-Convener, Korea US Indian Ocean Sciences (KUDOS) Science Plan Development Workshop, Seoul, South Korea, Nov. 29 – Dec. 1
- 2017 – present, IIOE-2 Science and Research, Working Group – 1, co-Chair
- 2017 - 2018, Organizing Committee and SSC Chair, SIBER SSC 8, Jakarta, Indonesia, Mar. 19 – 23
- 2016 – 2019, ChesMS19 Organizing Committee Chair
- 2018, ChesMS19 Lead Convener, June 12 – 14, Annapolis, MD.
- 2016 – 2019, Guardian Award Search Committee Chair
- 2018, Lead Convener, Ocean Sciences Town Hall Meeting, Update on the Second International Indian Ocean Expedition, AGU Ocean Sciences Meeting, Portland, Oregon, Feb. 12
- 2018, co-Convener, STAC Visioning Workshop for CBP modeling, West Virginia, January 17-19.
- 2018, co-Convener, Ocean Sciences Special Session, “Observing and Modeling Wetland-Estuarine Exchanges and Interactions: State of Knowledge, Challenges and Future Directions”, AGU Ocean Sciences Meeting, Portland, Oregon, Feb. 14
- 2018, co-Convener, Ocean Sciences Special Session, “Linking Observations and Models to Better Understand Marine Biogeochemical Cycling”, AGU Ocean Sciences Meeting, Portland, Oregon, Feb. 14

- 2018, AOGS-AGU Joint Assembly Meeting, Special Session Convener, “The Eastern Indian Ocean Upwelling Research Initiative (EIOURI) and the Second International Indian Ocean Expedition (IIOE-2)”, Honolulu, Hawaii, June 4-8
- 2018, lead-Convener, SESYNC International Workshop, Annapolis, MD, Sept. 6-7
- 2018, co-Convener, Korea US Indian Ocean Sciences (KUDOS) Proposal Development Workshop, San Diego, Nov. 6-8
- 2018, Lead Convener, AGU Town Hall Meeting, Update on the Second International Indian Ocean Expedition, AGU Meeting, Washington, DC, Dec. 10
- 2019, lead-Convener, SESYNC International Workshop, Annapolis, MD, Feb. 21-22
- 2018 - 2019, Organizing Committee and SSC Chair, SIBER SSC 9, Port Elizabeth, South Africa, Mar. 15
- 2018 – 2020, Ocean Carbon Biogeochemistry Scientific Steering Committee Member
- 2019 - 2020, Organizing Committee and SSC co-Chair, SIBER SSC 10, Goa, India, Mar. 18
- 2020, Lead Convener, Ocean Sciences Town Hall Meeting, Update on the Second International Indian Ocean Expedition, AGU Ocean Sciences Meeting, San Diego, CA, Feb. 19
- 2019 – 2020, Organizing Committee member for the International Indian Ocean Science Conference 2020, Goa, India, March 16 – 20
- 2020, co-Convener, Ocean Sciences Special Session, “Climate Variability, Ocean Dynamics and Biogeochemical Cycles in the Indian Ocean”, AGU Ocean Sciences Meeting, San Diego, CA, Feb. 20
- 2018 – 2020, ChesCRS20 Organizing Committee Chair
- 2018 – 2020, Guardian Award Search Committee Chair
- 2020, ChesCRS20 Virtual Meeting, lead convener, June 8 - 10
- 2020, co-Convener, Coastal Ocean Modeling in Support of Marine Navigation and the Blue Economy, AGU Virtual Meeting, Dec. 14.
- 2020 – 2022, ChesCRS22 Organizing Committee Chair
- 2020 – 2022, Guardian Award Search Committee Chair
- 2020 – 2022, Organizing Committee member for the International Indian Ocean Science Conference 2022, Goa, India, March 14 – 18
- 2020 – 2021, co-Convener, OCB Ecological Forecasting Workshop, June 2021
- 2022, co-Convener, Understanding and Predicting Coastal Zone Processes to support Resilience, Navigation and the Blue Economy, Ocean Sciences Virtual Meeting, February 28 – March 4.
- 2022, co-Convener, Ecology and Biogeochemistry of the Equatorial Ocean, Ocean Sciences Virtual Meeting, February 28 – March 4.
- 2022, co-Convener, Indian Ocean circulation, air-sea interaction and their impacts on biogeochemistry and ecology, Ocean Sciences Virtual Meeting, February 28 – March 4.
- 2022, Lead convener, Special Session on Biogeochemistry and Microbiology of the Indian Ocean: Recent Advances, International Indian Ocean Science Conference, March 16-17.
- 2022, Discussion Moderator, Panel on Biogeochemistry and Ecology of the Indian Ocean, International Indian Ocean Science Conference, March 16.
- 2022, ChesCRS22 Lead Convener, June 6 – 9, Annapolis MD.
- 2022 – 2024, ChesCRS24 Organizing Committee Chair.
- 2024, ChesCRS24 Lead Convener, June 10 – 12, Annapolis MD.
- 2024, ChesCRS24 Special Session Lead Convener, Coupled Natural and Human Systems in Chesapeake Bay, June 10 – 12, Annapolis MD.
- 2024, ChesCRS24 Special Session Lead Convener, General: Estuarine and Watershed Processes, June 10 – 12, Annapolis MD.
- 2024, ChesCRS24 Panel Discussion Lead Organizer, Advances in Coupled Natural and Human Systems Research, Understanding and Applications, June 10 – 12, Annapolis MD.
- 2022 – 2024, Guardian Award Search Committee Chair
- 2024 – 2026, ChesCRS24 Organizing Committee Chair
- 2024 – 2026, Guardian Award Search Committee Chair

