

MICHAEL VECCHIONE
CURRICULUM VITAE

Address: NMFS National Systematics Laboratory
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Personal: Born 19 June 1949 in Neptune, NJ, USA
Married with three grown married sons, three granddaughters.

Education:

B.S., 1972, University of Miami, Biology Major, Chemistry Minor.
Ph.D., 1979, College of William and Mary, Marine Science (Biological Oceanography).

Professional Experience:

NOAA, National Marine Fisheries Service (NMFS), National Systematics Laboratory (NSL).

Mission: To conduct taxonomic, systematics, and life-history research on marine organisms of economic and ecological importance, thereby contributing to the understanding of marine biodiversity.

Positions:

Nov 15 - present, Zoologist/Senior Scientist.
Jan 98 – Nov 15, Supervisory Zoologist and NSL Director.
Dec 86 – Jan 98, Zoologist.
Nov 86 - present, Research Associate/Adjunct Scientist, Dept. of Invertebrate Zoology, National Museum of Natural History (NMNH), Smithsonian Institution. Curator of Cephalopods since 2002 and of Pteropods since 2010.
May 88 - present, Adjunct Faculty, School of Marine Science/Virginia Inst. of Marine Science (VIMS), College of William and Mary.
Jan 00 - May 02, Founding Director, Virginia Cooperative Marine Education and Research (CMER) program between NMFS, VIMS/Wm & Mary, and Hampton Univ.

Research Emphases:

Systematics, development, and life history of cephalopods; Biodiversity of deep-sea nekton;
Distribution of pelagic gastropods; Deep water-column ecology.

Teaching:

College of William and Mary: Deep-Sea Biology, Special Topics in Marine Science, and pelagic mollusk sections of Malacology.
Ph.D. and Master's students (VIMS/Wm & Mary, Bryn Mawr, UNH, ODU, Univ. Wash., American Univ., Univ. S. Florida, Ohio State Univ., Univ. Louisiana Lafayette), plus interns and Research Fellows from SI/NMNH, NRC and NOAA.
External Dissertation Examiner: MacQuarie Univ., James Cook Univ., Dalhousie Univ., Univ. of Vienna, Auckland Univ. of Technology, Latrobe Univ.

Awards and Honors:

Sigma-Xi Scientific Honor Society, 2023

Career Achievement Award (with honorary life membership on Council), Cephalopod International Advisory Council, 2018.

US Dept. of Commerce Bronze Medal for Superior Federal Service, 2012.

US Dept. of Commerce Gold Medal for leadership, 2010.

NMNH Peer Award for teamwork, 2009.

Fellow, American Association for the Advancement of Science, elected 2001.

Extramural Funding:

Gulf of Mexico Research Initiative and RESTORE Initiative, Deep Pelagic Nekton Dynamics Consortium. 2015-present.

Smithsonian Institution (with Karen Osborn et al.) StreamCode, survey of plankton diversity in the Gulf Stream. 2017-present.

Natural Resources Damage Assessment, Field collections and quality-control analyses of cephalopod identifications, Deepwater Nekton project, Deepwater Horizon Oil Spill.

NOAA Ocean Exploration: Biodiversity of Bear Seamount and Vicinity; Arctic deepsea fauna; MIR dives on Charlie-Gibbs Fracture Zone; US contribution to MAR-ECO project.

Census of Marine Life: MAR-ECO Planning and Field Phases (with O.A. Bergstad), funded by Sloan Foundation Oct 01 - Dec 10; CephBase (with P. Lee and R. O'Dor), pilot project for the Ocean Biogeographic Information System, funded by NOPP Nov 00 - Nov 02.

Sea Grant (with R.E. Young), Phylogenetic Systematics / Cephalopod Biodiversity, Mar 98 – Feb 00.

Smithsonian Institution 1996 Scholarly Leadership Program (with C.F.E. Roper), History of Cephalopod Research at SI.

Japan Society for the Promotion of Science, 1995 Research Fellow. Field research on cephalopods aboard FTS Hokusei Maru.

Smithsonian Marine Station (with C.F.E. Roper). Paralarval Cephalopods of the Straits of Florida, Dec 86 - Sep 92, 1998-99; Cephalopod Observations from Direct Study of Midwater Communities, Oct 88 - Sep 94.

NSF, Yolk Absorption and Incidence of Feeding by Early Juvenile Squids, Dec 86 - Aug 88.

McNeese State University, Dept. of Biological and Environmental Science.

Positions:

Aug 83 - Dec 86, Assistant Professor and Member of Graduate Faculty.

Jan 81 - Aug 83, Adjunct Assistant Professor and Member of Graduate Faculty.

Teaching:

1 Masters student plus several thesis committees

Introductory Zoology

Advanced Invertebrate Zoology

Immature Insects

Marine Ecology

Marine Science for Teachers (through La. Univ. Marine Consort.)

Introduction to Biological Research

General Environmental Science

Ocean Pollution

Laboratory Coordinator for Intro. Zoology & Supervisor of Teaching Assistants.

Funded Research (Dept. Head status in Office of Research & Development)

Principal Investigator, Yolk Absorption and Incidence of Feeding by Early Juvenile Squids, May 86 - Dec 86, \$17,000 budget, 3 personnel, funded by NSF grant.

Principal Investigator, Exploratory Trawling for Butterfish and Squid, May - Aug 86, \$141,000 budget, funded by cooperative services agreement with Port of Lake Charles.

Supervisory Collaborator, Sea Turtle Survey, May - Dec 86, \$1000 for grad. student, funded by NMFS.

Principal Investigator for Zooplankton, Calcasieu Ecosystem Study, Jun 83 - Dec 86, \$286,000 zooplankton budget, 5 personnel, funded by DOE grant.

Co-Principal Investigator, Habitat Associations of Mosquitoes, Copepods, and Microsporidia, Oct 84 - Dec 86, \$60,000 total budget, Cooperative Research for Agr. Res. Serv., USDA.

Principal Investigator for Larval Studies, Oyster Habitat Study, Apr 83 - Mar 85, \$25,000 larval studies budget, 3 personnel, funded by Office of Coastal Zone Management CEIP grant.

Principal Investigator for Zooplankton, West Hackberry Brine Disposal Project, Jan 81 - Apr 83, \$535,000 zooplankton budget, 6-12 personnel, funded by DOE contract.

U.S. Fish and Wildlife Service, Division of Ecological Services.

Positions:

Apr 80 - Jan 81, Environmental Biologist.

Jun 79 - Apr 80, Fishery Biologist (part-time).

Funded Research (assessment of Corps of Engineers projects):

Pelagic Ecology of Rudee Inlet.

Beach and Nearshore Ecology of Willoughby Spit and Ocean View.

Ichthyofauna of London Bridge Creek.

Several other short-term investigations.

Virginia Institute of Marine Science.

Sep 76 - Aug 79, Graduate Research Assistant.

Funding:

BLM Survey of Middle Atlantic Bight Zooplankton.

American Petroleum Institute Experimental Oil Spill.

Institutional Support.

Military Service.

R.O.T.C. Scholarship, Distinguished Military Graduate.

Jan 72 - Aug 76, Regular Army Officer.

Primary Military Occupational Specialty: Armored Reconnaissance Unit Commander.

Awarded Army Commendation Medal, National Defense Service Medal, and several marksmanship awards.

Teaching:

Leadership Instructor, Aug 75 - Aug 76, Army Transportation School.

Race Relations Instructor, Jun 73 - Aug 75, 25th Infantry Division.

Administration:

Race Relations/Equal Opportunity Officer, 45th Support Group, 9 months, 4 personnel,

Coordinated and monitored RREO training for a 2223 man general-support group.

Motor Transport Planning Officer, 25th Infantry Division, 8 months, 4 personnel, Coordinated and supervised ground transportation support for a 15,000 man infantry division.

Truck Platoon Leader, 25th Supply and Transport Battalion, 9 months, 21 personnel

Armored Cavalry Platoon Leader, 3rd Squadron/4th Cavalry, 5 months, 35 personnel

Support Platoon Leader, 3rd Squadron/4th Cavalry, 8 months, 50 personnel, supply, motor transport, and mess sections.

Consulting.

Jan - Feb 86, Turner, Collie, and Braden, Inc. Projected impact from construction and operation of a U.S. Navy Home Port on the zooplankton of the Calcasieu Estuary.
Sep 84 - Jun 85, John E. Chance & Associates, Inc. Video survey and photodocumentation of epibenthic megafauna and demersal fishes on the Florida continental shelf.
Jan 81 - Jan 82, Gulf South Research Institute. Community analysis of zooplankton samples.
Jan - Mar 81, Atlantic Taxonomic and Ecological Consultants, Inc. Analysis of meroplankton samples.
Jun 78, Equitable Environmental Health, Inc. Quality-control analysis of microzooplankton samples.

Experience at Sea:

USCG licensed Master, up to 50 tons displacement, 1988-2010.

Research and Teaching:

41 offshore cruises of 1-7 weeks duration (Chief Scientist on 13); North Atlantic, Caribbean, Gulf of Mexico, Eastern, Central, and North Pacific, Arctic, Southern Ocean.

46 coastal cruises of 1-7 days duration (Chief Scientist on 37); US East Coast, Gulf of Mexico.

Nonacademic:

Volunteer crew, Skipjack *Dee of St. Marys*, public sails out of Calvert Marine Museum, Solomon's Island, MD, beginning Jul 21.

Lecturer, passenger cruise ships, western North Atlantic, Caribbean, eastern tropical Pacific, South America/Antarctica, seven 1-2 week cruises 2006-22.

Owner/operator, 35' motorsailer *Peregrine*, 2005 – 2020.

Owner/operator and Charter Captain, 34' sloop *Stormalong*, 1988 - 2004.

Owner/operator, 27' sloop *Baydreamer*, 1987-88.

Captain, motoryacht *Daril X*, Jun - Aug 71.

Mate, motoryacht *Connie IV*, Jul 69.

Mate, motoryacht *Capstan*, Jul - Aug 68.

Deck Hand, Briganteen *Black Pearl*, Jun - Jul 67.

Cabin Boy, Schooner *Victory Chimes*, Jun - Sep 66.

Extensive small-boat experience, both power and sail.

Experienced with SCUBA, manned submersibles (to 4500 m depth) and remotely operated vehicles (both at sea and via telepresence).

Other Pertinent Experience:

Associate Editor, *Marine Biodiversity*. Springer Verlag, 2008-2022.

Review Editor on the Editorial Board for Deep-Sea Environments and Ecology, *Frontiers in Ecology and Evolution* and *Frontiers in Marine Science*. 2019-present.

Member, Pool of Experts, UN World Ocean Assessment. 2013-2015; 2017-2021; 2023-present.

Chair, Water-Column subgroup, Interagency Working Group on Ocean Exploration and Characterization. 2021-2022.

Co-Chair, Water-Column breakout group, Workshop to Identify National Ocean Exploration Priorities in the Pacific. Virtual workshop, summer 2020.

VIMS After Hours (public lecture), Jul 2018.

Invited Participant, National Academies Keck Futures Initiative: Discovering the Deep Blue Sea, Nov 2016.

Delivered an invited public lecture (with Japanese translator) to the citizens of Hakodate, Nov 2015.

Member, Delaware Museum of Nature and Science (prev. Del. Mus. Natural History) Advisory Committee on Research and Collections, 2011-2023.

NOAA Representative, OSTP Interagency Work Group on Scientific Collections, Office of Science and Technology Policy. 2005-2022.

NOAA Representative, OSTP/SOST Biodiversity Interagency Workgroup (formerly SOST NOPP IWG on Biodiversity). Ongoing.

Cephalopod International Advisory Council (CIAC), President 2003-2006, Council Member, 1985-94, 1997-2006, 2009-2015. Honorary Lifetime Member of Council beginning 2015.

Member, Ad-hoc NOAA and interagency committees on marine biodiversity, 2008-present and NOAA Standing Committee on Biodiversity and Ecosystem Management, 1994-2000.

NOAA Research Council Ad-hoc Committee on Science Integrity, Sep 10-Jun 11.

Organizer and Chair, Int'l Workshop on Loliginid Systematics, CIAC, Phuket, Thailand, Feb 03.

Councilor, Biological Society of Washington, 2002-2004

Member, Smithsonian Institution Panel on Biodiversity, May 02.

2003 Charles and Marie Fish Lecture in Oceanography, Grad. School of Oceanogr., URI, Dec 03.

Councilor, Smithsonian NMNH Senate of Scientists, 2000 – 2003.

Member, Northeast Fisheries Science Center Research Council, 1997-ca.2000.

U.S. Member, International Council for the Exploration of the Sea (ICES) Working Group, Cephalopod Fisheries and Life History, since 1991.

Co-organizer and Chair, Int'l Workshop on Cirrate Octopods, CIAC, Aberdeen, Scotland, Jul 01.

Highlighted scientist for inauguration of “Meet the Explorers” section of NOAA world-wide-web pages, <http://www.noaa.gov/scientist.htm> Jan 98.

Co-authored keynote speech, International Symposium on Evolution, Ecology and Biodiversity of Cephalopods; also, led discussion series on speciation and species recognition at CIAC Workshop on Southern African Cephalopods, Cape Town, South Africa, Sep 97.

Chair, Taxonomic Needs session, International Workshop on Tropical Cephalopod Fisheries, Brisbane, Australia, Aug 96.

Rapporteur, International Symposium on Functional Morphology of Cephalopods, *Unitas Malacologicas*, Vigo, Spain, Sep 95.

Co-convener and session chair, International Symposium on Evolution of Coleoid Cephalopods, *Am. Malac. Union*, Hilo, HI, Jun 95.

Councilor, American Association for Zoological Nomenclature, 1991-92.

Co-chair, Fisheries Comm., *Soc. Syst. Zool.*, Systematics Agenda 2000 -- Research Priorities, 1991-92.

Treasurer, Biological Society of Washington, \$100K annual budget, ca. 900 members and subscribers in 35 countries, 1990 - 1992.

NOAA Representative, UNEP/World Resources Institute Consultation on World Biodiversity Strategy, *Keystone*, CO, Jul 91.

Presented congressional testimony on marine biodiversity, Jul 91.

Presented Distinguished Alumnus address in honor of the 50th Anniversary of the Virginia Institute of Marine Science, Sep 90.

Panel Member, AIBS Presidential Symposium: Systematics, Society and Public Policy, *Am. Inst. of Biol. Sci.*, Richmond, VA, Aug 90.

Co-convener, International Symposium on Systematics, Fisheries, and Biology of Cephalopods, *Woods Hole*, MA, Jun 90.

Working-Group Leader, Convener and Chairman of Character-Analysis sessions, & Local Committee member, International Workshop on the Systematics and Biogeography of Cephalopods, Washington, DC, Jul 88.

Vice President and Program Chair, Gulf Estuarine Research Soc., 1986-87.

Review Panel Member, Shearman Foundation Research Fellowships, 1986.

Convener and Chairman, International Symposium on the Ecology of Larval Mollusks, Am. Malac. Union, Norfolk, VA, Jul 84.

Exhibits and Public Programs at the National Museum of Natural History:

Adviser for:

Can We Save the Vaquita Porpoise?, Member of Extended/Advisory Team, temp. beginning Apr 22.

Sant Ocean Hall, Curator/member of Core Team for permanent exhibition, opened Sep 08.

and Extended Team member for “Living on an Ocean Planet” redesign, 2011-12

Fragile Beauty: The Art & Science of Sea Butterflies, temp. Sep 14-Dec 15.

Census of Marine Life: A Decade of Discovery, temp, Sep 12-Apr 22.

Scarlet Knight robotic ocean glider, temp. Dec 10-Aug 12.

Deeper Than Light, temp. Feb-May 10.

Going to Sea, temp., Sep 08-Dec 09.

Science at Sea. Joint NMFS/SI anniv. exhibit, temp., Feb-Sep 96.

In Search of Giant Squid. May 94-Sep 07.

Presented public lectures at NMNH on “Life in Midwater” (*Ocean Planet* exhibit, Oct 95), “Exploration of the Charlie-Gibbs Fracture Zone, Mid-Atlantic Ridge” (2000 Kickoff of Census of Marine Life) and “Nature of Natural History” (Jun 02).

Presented NMNH “Science How” webcast on Deep Ocean Discovery - Octopods and Squids, Jun 17 and May 20.

Reviewer for:

Academic Press, *Acta Palaeon. Polonica*, *Am. Malac. Bull.*, *Antarctic Sci.*, *Aquaculture*, *Arch. Fish Mar. Res.*, *Arquipelago*, *Austr. J. Mar. F. W. Res.*, Australian Research Council, *Behav. Ecol. Sociobiol.*, *Biol. Bull.*, *Biol. Lett.*, *Bull. Mar. Sci.*, *CalCOFI Rep.*, *Can. J. Fish. Aq. Sci.*, *Comptes Rendus*, *Contr. Mar. Sci.*, *Current Biol.*, *Deep-Sea Res.*, *Estuaries*, *Fish. Res.*, *Fish. Bull.*, *Fish. Oceanogr.*, *Front. Mar. Sci.*, *GEOBIOS*, *Hydrobiologia*, *ICES J. Mar. Sci.*, *Invert. Biol.*, *Invert. Syst.*, Jeffress Memorial Trust, *J. Biogeogr.*, *J. Exp. Biol.*, *J. Mar. Biol. Ass.*, *J. Mar. Sci. Eng.*, U.K., *J. Moll. Stud.*, *Malacologia*, *Mar. Biodi.*, *Mar. Biol.*, *Mar. Ecol. Prog. Ser.*, *Mar. Poll. Bull.*, *Meitelungen Zool. Mus. Inst.*, *Mem. Queensland Mus.*, *Mem. Mus. Victoria*, *Mol. Phylog. Evol.*, National Science Foundation, National Marine Fisheries Service, National Undersea Research Program, *Nat. Wildl.*, NSERC, *Nautilus*, *N. Z. J. Mar. F. W. Res.*, *Oceanography*, *Paleobiology*, *Phil. Trans. Royal Soc.*, PeerJ, PLOS ONE, *Proc. Nat. Acad. Sci.*, *Polar Biol.*, *Polar Res.*, *Proc. Biol. Soc. Wash.*, *Proc. Royal Soc.:Biol.*, Saltonstall-Kennedy Grants, *Sarsia*, *Science*, *Scientia Marinas*, *Sci. Rep.*, Sloan Found., Smithsonian Enterprises, Smithsonian Fellowships, *S. Afr. J. Mar. Sci.*, Stanford Synchrotron Radiation Lightsource, *Systematics and Biodiversity*, Tokai Univ. Press, *Trans. Am. Fish. Soc.*, *Turkish J. Fish. Aq. Sci.*, UN World Ocean Assessment, *Veliger*, *Vie et Milieu*, *Zool. J. Linn. Soc.*, *Zoologica Scripta*, *Zoology*, *Zootaxa*.

Dissertation:

004 Vecchione, M. 1979. Planktonic molluscan faunal structure across a large scale environmental gradient. Ph.D. Diss., College of William and Mary. 153 pp. Diss. Abstr. Int. 49(12-1):5504-B.

Books:

- 066 Turgeon, D., et al. 1998. *Common and Scientific Names of Aquatic Invertebrates from the United States and Canada. Mollusks*. Second Edition. American Fisheries Society Special Publication 26.
- 164 Hanlon, R., M. Vecchione, and A.L. Allcock. 2018. *Octopus Squid and Cuttlefish. A Visual Scientific Guide*. Ivy Press (European edition) and Univ. Chicago Press (North American edition). 244 pp.
- 202 Vecchione, M., L. Allcock, I. Priede, and H. van Haren. 2023. *The Deep Ocean. Life in the Abyss*. Princeton Univ. Press. 288 pp.

Volumes Edited:

- 059 Roper, C.F.E. and M. Vecchione (eds.). 1991. The Gilbert L. Voss Memorial Issue: Systematics, Fisheries and Biology of Cephalopods. *Bull. Mar. Sci.* 49(1-2):670 pp.
- 032 Voss, N.A., M. Vecchione, R.B. Toll, and M.J. Sweeney (eds.). 1998. Systematics and Biogeography of Cephalopods. *Smithson. Contr. Zool.* 586, 2 volumes, 599 pp. Vol. I: <https://doi.org/10.5479/si.00810282.586>
- 136 Vidal, E.A.G., M. Vecchione, and S. v. Boletzky (eds.). 2014. Cephalopod Life History, Ecology and Evolution. *Hydrobiologia* 725:235 pp.
- 162 Vecchione, M., E. Jorgensen, and Y. Sakurai (eds.). 2017. Recent Advances in Knowledge of Cephalopod Biodiversity. *Marine Biodiversity* 47(3):157 pp.
- 177 Judkins, H., M. Vecchione, and M. Sweeney (eds.). 2020. Cephalopod research across scales: from molecules to ecosystems. CIAC 2018 Special Issue. *Bull. Mar. Sci.* 96(2)
- 183 Sutton et al. 2020. Deep Pelagic Ecosystem Dynamics in a Highly Impacted Water Column: The Gulf of Mexico After Deepwater Horizon. Special Topic in *Front. Mar. Sci.*

Publications:

- 001 Vecchione, M. 1976. Viewpoint: Fighting battles, forgetting the war. (essay) *S.C. Wildlife* May 1976:3.
- 002 Vecchione, M. 1978. Larval *Illex* (Cephalopoda, Oegopsida) from the Middle Atlantic Bight. *Fish. Mar. Ser. Tech. Rep.* 833:15.1-15.6.
- 003 Vecchione, M. 1979. Larval development of *Illex* Streenstrup, 1880, in the northwestern Atlantic, with comments on *Illex* larval distribution. *Proc. Biol. Soc. Wash.* 91(4):1060-1075.
- 005 Vecchione, M. 1981. Aspects of the early life history of *Loligo pealei* (Cephalopoda; Myopsida). *J. Shellfish. Res.* 1(2):171-180.
- 006 Vecchione, M. 1982. Morphology and development of planktonic *Lolliguncula brevis* (Cephalopoda: Myopsida). *Proc. Biol. Soc. Wash.* 95(3):601-608.
- 007 Casserly, D., M. Vecchione, R. Maples, R. Ilg, G. Gaston, D. Weston, J. Beck, J. Lascara. 1982. Biological attributes of the West Hackberry brine disposal site. In: Champ, M.A. (ed.) *Marine Pollution Papers. Oceans '82*. Office of Marine Pollution Assessment, NOAA. Rockville, MD.
- 008 Vecchione, M. and G.C. Grant. 1983. A multivariate analysis of planktonic molluscan distribution in the Middle Atlantic Bight. *Contin. Shelf Res.* 1(4):405-424. [https://doi.org/10.1016/0278-4343\(83\)90005-5](https://doi.org/10.1016/0278-4343(83)90005-5)
- 010 Stubblefield, C.L., C.M. Lascara, and M. Vecchione. 1984. Vertical distribution of zooplankton in a shallow turbid estuary. *Contr. Mar. Sci.* 27:93-104.

- 012 Vecchione, M. and G.R. Gaston. 1985. *In-situ* observations on the small-scale distribution of juvenile squids (Cephalopoda; Loliginidae) on the northwest Florida shelf. *Vie et Milieu* 35(3/4):231-235.
- 013 Stubblefield, C.L. and M. Vecchione. 1985. Zooplankton distribution in a wind-driven estuary before and after a major storm. *Contr. Mar. Sci.* 28:55-67.
- 014 Vecchione, M. 1986. The international symposium on the ecology of larval mollusks: Introduction and summary. *Am. Malac. Bull.* 4(1):45-48.
- 015 Vecchione, M., R.S. Maples, and R. Donahoe. 1986. Changes in chlorophyll *a* concentration in a shallow water column during a solar eclipse. *Contr. Mar. Sci.* 29:37-44.
- 016 Vecchione, M. and C.F.E. Roper. 1986. Occurrence of larval *Illex illecebrosus* and other young cephalopods in the Slope Water/Gulf Stream interface. *Proc. Biol. Soc. Wash.* 99(4):701-706.
- 017 Vecchione, M. 1987. Juvenile ecology. pp. 61-84 *In*: Boyle, P. (ed.) *Cephalopod Life Cycles*. Vol II. Academic Press. London.
- 018 Vecchione, M. 1987. A multispecies aggregation of cirrate octopods trawled from north of the Bahamas. *Bull. Mar. Sci.* 40(1):78-84.
- 019 Vecchione, M. 1987. Variability in the distribution of late-stage oyster larvae in the Calcasieu Estuary. *Contr. Mar. Sci.* 30:77-90.
- 020 Vecchione, M. 1987. Commercial fishing for butterfly in the Gulf of Mexico. *Mar. Fish. Rev.* 49(4):14-22.
- 021 Felley, S.M., M. Vecchione, and S.G.F. Hare. 1987. Incidence of ectoparasitic copepods on ichthyoplankton. *Copeia* 1987(3):778-782. <https://doi.org/10.2307/1445673>
- 022 Nasci, R.S., S.G.F. Hare, and M. Vecchione. 1987. Habitat associations of mosquito and copepod species. *J. Am. Mosq. Contr. Assoc.* 3(4):593-600.
- 023 Vecchione, M. 1988. *In-situ* observations on a large squid-spawning bed in the eastern Gulf of Mexico. *Malacologia* 29(1):135-141.
- 024 Vecchione, M., C.F.E. Roper, and M.J. Sweeney. 1989. Marine flora and fauna of the eastern United States. Mollusca: Cephalopoda. *NOAA Tech. Rep. NMFS* 73:1-23.
- 025 Vecchione, M. 1989. Zooplankton distribution in three estuarine bayous with different sources of anthropogenic influence. *Estuaries*. 12(3):43-53. <https://doi.org/10.2307/1351821>
- 026 Felley, J.D., M. Vecchione, G.R. Gaston, and S.M. Felley. 1989. Habitat selection by demersal nekton. Analysis of videotape data. *N.E. Gulf Sci.* 10(2):69-84. <https://doi.org/10.18785/negs.1002.01>
- 027 Vecchione, M. and V.A. Hand. 1990. Digestive-gland histology in paralarval squids (Cephalopoda; Loliginidae). *Fish. Bull., U.S.* 87(4):995-1000.
- 028 Vecchione, M. 1991. Observations on the paralarval ecology of a euryhaline squid, *Lolliguncula brevis* (Cephalopoda; Loliginidae). *Fish. Bull., U.S.* 89(3):515-521.
- 029 Vecchione, M. 1991. A method for examining the structure and contents of the digestive tract in paralarval squids. *Bull. Mar. Sci.* 49(1-2):300-308.
- 030 Vecchione, M. 1991. Long-term trends in the abundance of the copepod *Acartia tonsa* in the Calcasieu Estuary. *Contr. Mar. Sci.* 32:89-102.
- 031 Vecchione, M. and C.F.E. Roper. 1991. Cephalopods observed from submersibles in the western North Atlantic. *Bull. Mar. Sci.* 49(1-2):433-445.
- 033 Roper, C.F.E., M. Vecchione, and M.J. Sweeney. 1991. Forward. *Bull. Mar. Sci.* 49(1-2):3-4
- 034 Hanlon, R.T. et al. 1992. Suborder Myopsida Orbigny 1845. *In*: Sweeney, M.J., et al. (eds.) "Larval" and Juvenile Cephalopods. A Manual for Their Identification. *Smithson. Contr. Zool.* 513:37-54.

- 035 Young, R.E., K. Mangold, and M. Vecchione. 1992. The enoploteuthid group of families. *In*: Sweeney, M.J., et al. (eds.) "Larval" and Juvenile Cephalopods. A Manual for Their Identification. *Smithson. Contr. Zool.* 513:55-66.
- 036 Vecchione, M., B.H. Robison, and C.F.E Roper. 1992. A tale of two species: tail morphology in paralarval *Chiroteuthis*. *Proc. Biol. Soc. Wash.* 105(4):683-692.
- 037 Vecchione, M. and C.F.E. Roper. 1992. *Taningia danae* Joubin, 1931 (Mollusca. Cephalopoda): Proposed precedence over *Taningia persica* (Naef, 1923). *Bull. Zool. Nomen.* 49(4):261-263.
- 038 Loffler, D. L. and M. Vecchione. 1993. An unusual squid paralarva (Cephalopoda) with tentacular photophores. *Proc. Biol. Soc. Wash.* 106(3):602-605.
- 039 Roper, C.F.E. and M. Vecchione. 1993. A geographic and taxonomic review of *Taningia danae* Joubin, 1931 (Cephalopoda: Octopoteuthidae), with new records and observations on bioluminescence. pp. 441-456 *In*: Okutani, T., R.K. O'Dor, and T. Kubodera (eds.). *Recent Advances in Cephalopod Fisheries Biology*. Tokai Univ. Press, Japan.
- 040 Felley, J.D., M. Vecchione, J.L Russo, M. Erixon-Stanford, and C.F.E. Roper. 1994. Multimedia computer applications for species identification: prototypes from a cooperative venture between the Smithsonian Institution and NMFS. pp. 333-337 *In*: MTS94. *Challenges and Opportunities in the Marine Environment*. Marine Technology Society. Washington, DC.
- 041 Vecchione, M. 1994. Systematics and the lifestyle and performance of cephalopods. *Mar. Behav. Physiol.* 25(1-3):179-191. <https://doi.org/10.1080/10236249409378916>. Republished *In*: Poertner, H.O., R.K. O'Dor, and D.L. Macmillan (eds.) 1996. *Physiology of Cephalopod Molluscs. Lifestyle and Performance Adaptations*. Gordon & Breach Publ.
- 042 Vecchione, M. and B.B. Collette. 1994. Profile: National Systematics Laboratory. *Fisheries*. 19(11):26.
- 043 Collette, B.B. and M. Vecchione. 1995. Interactions between fisheries and systematics. *Fisheries*. 20(1):20-25. [https://doi.org/10.1577/1548-8446\(1995\)020<0020:IBFAS>2.0.CO;2](https://doi.org/10.1577/1548-8446(1995)020<0020:IBFAS>2.0.CO;2). Republished *In*: *Current. J. Mar. Ed.* 13(2):26-32.
- 044 Felley, J.D. and M. Vecchione. 1995. Assessing habitat use by nekton on the continental slope using archived videotapes from submersibles. *Fish. Bull., U.S.* 93(2):262-273.
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Advisor for cephalopod, deep-sea and polar sections of Smithsonian Ocean Portal <https://ocean.si.edu/>

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Submitted:

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Vecchione, M. and K. Mayne. Larval distribution in an artificial estuary.
Vecchione, M., C.F.E. Roper, and K. Jackson. Distribution and biology of non-commercial cephalopod species from the northeastern continental shelf of the United States.
Vecchione, M., C.F.E. Roper, G. Sanchez, and H. Perry. Electrophoretic evidence of four species of *Loligo* (Cephalopoda: Loliginidae) in the northern Gulf of Mexico.
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Vecchione, M., R.E. Young and M.J. Sweeney. Cephalopoda; Coleoidea; Neocoleoidea. Classification of living forms. *Treatise on Invertebrate Paleontology. Part M*.
Young, R.E. and M. Vecchione. Evolution of the Octopoda and inferred morphology of the ancestral coleoid.

New Taxa Described:

Families:

Magnapinnidae Vecchione and Young 1998
Torquaratoridae Holland et al. 2005
Enteroctopodidae Strugnell et al. 2013

Genera:

Magnapinna Vecchione & Young 1998
Praealtus Allcock et al. 2004

Torquarator Holland et al. 2005
Bathypurpurata Vecchione et al. 2005
Narrowteuthis Young and Vecchione 2005
Amphorateuthis Young et al. 2007
Mastigotragus Young et al. 2014

Species:

Magnapinna pacifica Vecchione & Young 1998
Pickfordiateuthis bayeri Roper & Vecchione 2001
Thaumeledone peninsulae Allcock et al. 2004
Praealtus paralbida Allcock et al. 2004
Torquarator bullocki Holland et al. 2005
Bathypurpurata profunda Vecchione et al. 2005
Narrowteuthis nesisii Young and Vecchione 2005
Promachoteuthis sloani Young et al. 2006
Magnapinna atlantica Vecchione and Young 2006
Pareledone felix Allcock et al. 2007
Amphorateuthis alveatus Young et al. 2007
Asperateuthis mangoldae Young et al. 2007
Promachoteuthis sulcus Young et al. 2007
Mastigoteuthis microlucens Young et al. 2008
Onychoteuthis prolata Bolstad, Vecchione & Young in Bolstad, 2008
Benthoctopus rigbyae Vecchione et al. 2009
Walvisteuthis jeremiahi Vecchione et al. 2015.
Bathyteuthis inopinatum Judkins, Lindgren, Villanueva, Clark, and Vecchione 2020
Bathyteuthis devoleii Judkins, Lindgren, Villanueva, Clark, and Vecchione 2020
Bathyteuthis numerosus Judkins, Lindgren, Villanueva, Clark, and Vecchione 2020
Octopus jeraldi Pratt, Baldwin, and Vecchione 2020
Helicocranchia navossae Judkins, Rose-Mann, Lindgren, Taite, Bush, and Vecchione 2022

Eponymous species: *Sepia vecchioni* Neethiselvan & Venkataramani 2010.

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