CURRICULUM VITAE

Richard W. ("Rick") Murray
16 Collier Road, Scituate, MA, 02066; murray.richard.w@gmail.com; (c) 781-635-6044
Woods Hole Oceanographic Institution, Woods Hole, MA, 02543, USA; rickmurray@whoi.edu

History of Employment

Woods Hole Oceanographic Institution
Senior Scientist (emeritus), Department of Marine Chemistry & Geochemistry 9/24 - present
Deputy Director / Vice President for Science & Engineering 9/19 – 9/24
Senior Scientist, Department of Marine Chemistry & Geochemistry
Dept. of Earth & Environment (prior Earth Sciences, prior Geology), Boston Univ. 11/92 - 9/19
Professor (9/02-9/19); Director, Boston University Marine Program (1/07-8/09); Chairman (9/00-9/05); Associate Chairman (1/99-9/00); Associate Professor, tenured; (9/99–9/02); Assistant Professor (9/94-8/99); Assistant Research Professor (11/92-8/94).
Director, Division of Ocean Sciences, National Science Foundation (IPA detail) 1/15 – 6/18
- Co-Chair, Sub-committee on Ocean Science & Technology (SOST), Office of Science and Technology Policy (OSTP), Executive Office of the President (EOP).
- Steering Committee, National Ocean Council, OSTP (EOP).

Visiting Scholar (sabbatical), Harvard University, Center for the Environment 01/06 - 12/06
Post-Doctoral Associate, Graduate School of Oceanography, Univ. Rhode Island 9/91 - 10/92
Research and *Teaching Assistant,* University of California at Berkeley 9/86 - 8/91
Graduate Research Assistant, Sedimentology Group, U. of Wisconsin, Madison 9/85 - 6/86
Geol. Intern / Geologist, USGS Menlo Park, Pacific Marine Geology Summer 1985, 1986
Teaching and *Research Assistant,* Dept. of Geology, Hamilton College 9/82 - 12/85

Degrees and Educational Background

B.A. (Honors), Geology	Hamilton College, Clinton, NY	1985
Sea Education Association	Woods Hole, MA	1983
Ph. D., Geology	Univ. of California at Berkeley	1991
Post-doctoral Associate	Grad. School of Oceanography, Univ. Rh. Island	9/91 - 10/92

Research Experience

Originally interested and published in sedimentary and tectonic geology, through my career I have studied progressively younger sediments, oceanographic processes, and the linkages between the ocean, atmosphere, volcanism (ash), and the subseafloor biosphere. Accordingly, I consider myself as a blend of oceanography, marine geology, marine biogeochemistry, sedimentology, and paleoceanography. My leadership positions in particular at NSF, WHOI, and AGU have given me the opportunity to have broad knowledge and appreciation for the breadth of earth, ocean, and space sciences. Throughout my career, I have also engaged policy makers at the local, state, and national levels, reflecting my interest in the tapestry of "science and society".

Activities and Professional / Community Commitment (representative)

2026 - : *Chair,* A Research Strategy for Seabed Critical Min'l Resources, Nat'l Acad. Sciences
2026 - : *Chair & (prior) Vice Chair,* Board of Trustees, Sea Education Association, Woods Hole
2024 - : *Vice Chair, Research and Education Coalition for Ocean Sciences (RECOS,* elected)
2019 - : *Board of Directors*, Society for Women in Marine Science (SWMS)
2019 - : *Chair* (inaugural), Ethics Committee, The Oceanography Society (TOS)
2019 - : *Member,* Waterways Comm. (appointed), Chair in 2022. Town of Scituate
2024 - 2025: *Member,* Japan Agency for Marine-Earth Sci. & Tech. (JAMSTEC) Advisory Board
2023 - 2025: *Member*, Forecasting the Ocean: Decadal Survey of Ocean Sciences, Nat'l Acad. Sciences
2023 - 2024: *Member* (*Chair* in 2024), Leadership & Governance Comm., Am. Geophys. Union (AGU)
2019 - 2022: *Board of Directors*, American Geophysical Union (AGU). Elected position
2016 - 2018: *Councillor,* The Oceanography Society (TOS). Elected position

2006 - 2014: *Selectman* (elected), Town of Scituate. Chair, 2008-09; Vice-Chair, 2009-2010
2008: MA Exec. Office Energy & Env. Affairs, Oceans Act, Sed. Resource Manag.
2003 - 2006: *Member (Chair,* 2005-2006*),* Waterways Commission (appointed), Town of Scituate

Key Publications (A few publications from each decade, *italics* denotes a student of Murray's at the time)

Sauvage J. F., Flinders A., Spivack A. J., Pockalny R., Dunlea A. G., Anderson C. H., Smith D. C., Murray R. W., and D'Hondt S. D., 2021. The contribution of water radiolysis to marine sedimentary life. *Nature Communications*, **12**, 1297. https://doi.org/10.1038/s41467-021-21218-z.

Anderson C. H., Murray R. W., *Dunlea A. G.,* Giosan L., Kinsley C. W., McGee D., and Tada R., 2018. Climatically driven changes in the supply of terrigenous sediment to the East China Sea. *G^3 (Geochemistry, Geophysics, Geosystems)*, **19,** https://doi: 10.1029/2017GC007339.

Dunlea A. G., Murray R. W., Sauvage J., Spivack A. J., Harris R. N., and D'Hondt S., 2015, Dust, volcanic ash, and the evolution of the South Pacific Gyre through the Cenozoic. *Paleoceanography*, **30,** 1078-1099, doi:10.1002/2015PA002829.

Scudder R.P., Murray R.W., Schindlbeck J.C., Kutterolf S., Hauff F., and McKinley C. C., 2014, Regional scale input of dispersed and discrete volcanic ash to the Izu-Bonin and Mariana subduction zones. *G^3 (Geochemistry, Geophysics, Geosystems)*, **15,** 4369-4379, doi:10.1002/2014GC005561.

Ziegler C. L., Murray R. W., Hovan S. A., and Rea D. K., 2007, Resolving eolian, volcanogenic, and authigenic components in pelagic sediment from the Pacific Ocean. *Earth and Planetary Science Letters*, **254**, 416-432.

Murray R. W., Knowlton C., Leinen M., Mix A. C., and Polsky C. H., 2000, Export production and carbonate dissolution in the central equatorial Pacific Ocean over the past 1 Ma. *Paleoceanography*, **15**, 570-592.

Murray R. W. and Leinen M., 1996, Scavenged excess Al and its relationship to bulk Ti in biogenic sediment from the central equatorial Pacific Ocean. *Geochimica et Cosmochimica Acta*, **60**, 3869-3878.

Murray R. W., Buchholtz ten Brink M. R., Jones D. L., Gerlach D. C., and Russ G. P., III, 1990, Rare-earth elements as indicators of different marine depositional environments in chert and shale. *Geology*, **18**, 268-271.

Howell D. G. and Murray R. W., 1986, A budget for continental growth and denudation. *Science*, **233**, 446-449.

Summary of Publications

- 100+ articles in peer-reviewed journals/books; 240 meeting presentations; 45 other (Op-Eds, etc).
- Google Scholar: h-index = 49; i10 index = 78; 10,100+ total citations.

Honors and Awards (representative)

2015: *Certificate of Appreciation*, World Ocean Assessment Team, U.S. Dept. of State
2006: *Honorary Initiate,* Phi Beta Kappa, Boston University
2005: *Alumni Distinguished Achievement Medal,* Hamilton College
2002, 2001, 1997: *Distinguished Teaching Award*, Honors Program, Boston University
2002, 1993: *Excellence in Reviewing*, American Geophysical Union
1999: *Fellow,* Geological Society of America
1999: *Excellence in Student Advising,* Boston University
1998 - 1999: *Distinguished Lecturer*, Joint Oceanographic Institutions
1990: *Outstanding Graduate Student Instructor*, UC - Berkeley