

Bruce Hayward Corliss

Professor

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and

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Education

- 1971 B.A. Geology, University of Vermont
- 1973 M.S. Oceanography, University of Rhode Island; "Late Pleistocene paleoclimatology: Planktonic foraminiferal analysis of deep-sea sediment cores from the central North Atlantic"
- 1978 Ph.D. Oceanography, University of Rhode Island; "Studies of Cenozoic deep-sea benthonic foraminifera in the Southern Ocean"

Employment

- 1978-79 Post-doctoral Investigator, Woods Hole Oceanographic Institution
- 1979-83 Assistant Scientist, Woods Hole Oceanographic Institution
- 1983-84 Associate Scientist, Woods Hole Oceanographic Institution
- 1984-91 Associate Professor, Department of Geology, Duke University
- 1987-90; Guest Investigator, Woods Hole Oceanographic Institution
- 1994-96
- 1990-96 Chairman, Department of Geology, Duke University
- 1991-96 Professor, Department of Geology, Duke University
- 1997- Professor, Division of Earth and Ocean Sciences, Nicholas School of the Environment, Duke University
- 1998-00 Senior Associate Dean, Nicholas School of the Environment, Duke University
- 2000-01; Interim Chair, Division of Earth and Ocean Sciences, Nicholas School of the Environment, Duke University
- 2005
- 2001- Director, Duke/University of North Carolina Oceanographic Consortium

Research Interests

Ecology, Functional Morphology and Geochemistry of Deep-sea Benthic Foraminifera; Cenozoic Paleoceanography; Coastal Environmental Change; Development of Environmental Proxies for Coastal Environments; Benthic Ecology, Deep-Sea Biodiversity, Marine Sustainability

Professional Societies

American Association for the Advancement of Science
American Geophysical Union
Cushman Foundation for Foraminiferal Research
Geological Society of America
The Oceanography Society

Honors

Fellow, American Association for the Advancement of Science

Oceanographic Cruises

1972 North Atlantic: Piston coring
1972 Gulf of Mexico: Piston coring
1974 Caribbean: Piston coring
1974 West Atlantic: Plankton tows
1974 Bermuda Biological Station: Experiments culturing planktonic foraminifera
1975 Mediterranean Sea: Piston coring
1980 South Atlantic Sector of the Southern Ocean (Co-chief Scientist): Piston coring
1984 North Atlantic continental margin: Box coring (Co-chief Scientist)
1984 North Sea - Skagerrak: Box coring
1986 North Atlantic continental margin: Box coring (Chief Scientist)
1988 Sulu and South China Sea: Box coring (Co-chief Scientist)
1990 North Atlantic Continental Margin: Box coring (Chief Scientist)
1993 North Atlantic Continental Margin: Box coring (Chief Scientist; Two cruises)
1994 North Atlantic Continental Margin: Box coring (Chief Scientist)
1996-97 New England Continental Margin: Box coring and sediment trap mooring (Chief Scientist, six cruises)
2002 Norwegian Fjords-Multicoring (Chief Scientist)
2003-05 Pamlico Sound- Multicoring (Chief Scientist)

Professional Activities

1981-1986 Int. Union Geol. Sci., Project 174: Terminal Eocene Events, Atlantic Ocean Coordinator
1983 AAPG/SEPM Annual Meeting, Co-organizer, "The Terminal Eocene Event in the Oceans II: Paleooceanography."
1983 First International Conference on Paleooceanography, Co-chairman, "Paleogene Paleooceanography."
1984 American Geophysical Union Fall Meeting, Co-chairman, "Paleooceanography, Pliocene to Present."
1986 SEPM Third Midyear Meeting, Co-organizer, "Deep-Sea Sediments and Paleooceanography."
1989 Third International Conference on Palaeoceanography, Co-organizer, "History and Genesis of Deep Water; The Postglacial Deglaciation."
1990-95 Associate Editor, *Geological Society of America Bulletin*
1991-96 Editorial Board, *Paleooceanography*
1983- Editorial Board, *Marine Micropaleontology*

- 1999-2002 Member, American Geophysical Union Regional Advisory Committee for North America
- 2000 Chair, External Review Committee, Department of Geological Sciences, University of South Carolina
- 2002-07 Member, UNOLS (University-National Oceanographic Laboratory System) Council
- 2002 Member, Regional Class Steering Committee, UNOLS
- 2005 Co-convenor (with R. C. Thunell and L. D. Keigwin, Jr.), An Era of Paleooceanographic Research, AGU, Annual Meeting.
- 2008 Co-convenor (with E. Alve and H. Kitazato), Oceanic hypoxia: Present and Past, 33rd International Geological Congress, Oslo.
- 2008-10 Chair-elect, UNOLS (University-National Oceanographic Laboratory System) Council
- 2010-12 Chair, UNOLS (University-National Oceanographic Laboratory System) Council
- 2012 Organizer, Greening the Research Fleet, UNOLS Workshop, Duke University

Courses Taught

- Earth and Ocean Sciences 12: Introduction to Oceanography
- Earth and Ocean Sciences 90: Fossils and Climate Change
- Earth and Ocean Sciences 107: Evolution of the Earth and Life
- Earth and Ocean Sciences 113/213: Modern and Ancient Oceanic Environments (team taught)
- Earth and Ocean Sciences 145: Fossils and Their Applications
- Earth and Ocean Sciences 173: Fossil Fish, Dinosaurs and Yellowstone
- Earth and Ocean Sciences 205: Geological Oceanography (team taught)
- Earth and Ocean Sciences 208: Paleooceanography
- Earth and Ocean Sciences 213: Greening the Seven Seas
- Earth and Ocean Sciences 249: Marine Micropaleontology

University Service

- 1985-87 Geology Representative, Undergraduate Faculty Council of Arts and Sciences
- 1985-87; 1990-1992, Duke/UNC Oceanographic Consortium Ship Advisory Committee
- 1996-97
- 1993-95 Chair, Duke/UNC Oceanographic Consortium Advisory Committee
- 1985-87 Department of Geology Seminar Series Coordinator
- 1987 Duke University Marine Laboratory Advisory Committee
- 1989-90 UFCAS Study Abroad Committee
- 1987-90 Director of Undergraduate Studies, Department of Geology
- 1990 Provost's Committee on Environmental Science and Policy
- 1991-92, 1998-9 Member, Academic Council
- 1991-95 Member, Environmental Science and Policy Advisory Committee
- 1996 Member, Arts and Sciences Council's Planning and Priorities Committee
- 1990-97 Member, Duke/UNC Oceanographic Consortium Policy Board
- 1995-96 Provost's Task Force on Geology and Environmental Science

1996	School of the Environment By-Laws Committee
1990-96	Chair, Department of Geology
1997-98	Member, Academic Priorities Committee, Academic Council
1998, 2010	Member, Faculty Council, NSOE
1998-99	Member, Provost Search Committee
1998- 2000	Senior Associate Dean, Nicholas School of the Environment
1999	Chair, Nicholas School of the Environment Coastal and Marine Science and Policy Task Force
1999	Member, Southeastern Universities Research Association Coastal/Marine Science Workshop
1999	Review Committee of the Dean of the Graduate School
2000	Provost's Committee on the Nicholas School of the Environment
2003	Program Director, Global Environmental Change, Master of Environmental Management
2000-2002; 2006-present	Director of Undergraduate Studies, Division of Earth and Ocean Sciences
2007	Member, Search Committee for Dean of Undergraduate Education
2008	Member, Climate Dynamics Search Committee, NSOE
2008-2009	Chair, Marine Biogeochemistry Search Committee, NSOE
2010-2011	Chair, Ecohydrology Cluster Hire Search Committee, NSOE

Publications

- Corliss, B.H., 1975. Late Pleistocene paleoclimatology: Planktonic foraminiferal analyses of sediment cores from the central North Atlantic. Palaeogeography, Palaeoclimatology, Palaeoecology, 18, 45-61.
- Corliss, B.H., 1979a. Recent deep-sea benthonic foraminiferal distributions in the southeast Indian Ocean: Inferred bottom-water routes and ecological implications. Marine Geology, 31, 115-138.
- Corliss, B.H., 1979b. Size-variation in the deep-sea benthonic foraminifera Globocassidulina subglobosa (Brady) in the southeast Indian Ocean. Journal of Foraminiferal Research, 9(1), 50-60.
- Corliss, B.H., 1979c. Taxonomy of Recent deep-sea benthonic foraminifera from the southeast Indian Ocean. Micropaleontology, 25(1), 1-19.
- Corliss, B.H., 1979d. Quaternary Antarctic Bottom Water history: Deep-sea benthonic foraminiferal evidence from the southeast Indian Ocean. Quaternary Research, 12, 271-289.
- Corliss, B.H., 1979e. Response of deep-sea benthonic foraminifera to the development of the psychrosphere near the Eocene/Oligocene boundary. Nature, 282, 63-65.
- Corliss, B.H. and Hollister, C.D., 1979. Cenozoic sedimentation in the central North

- Pacific. Nature, 282, 707-709.
- Corliss, B.H., 1981. Deep-sea benthonic foraminiferal faunal turnover near the Eocene/Oligocene boundary. Marine Micropaleontology, 6, 367-384.
- Corliss, B.H. and Honjo, S., 1981. Dissolution of deep-sea benthonic foraminifera. Micropaleontology, 27(4), 356-378.
- Corliss, B.H. and Milliman, J.D., 1981. The use of phillipsite in test construction of agglutinated deep-sea benthonic foraminifera. Sedimentology, 28, 401-406.
- Graham, D.W., Corliss, B.H., Bender, M.L. and Keigwin, L.D., Jr., 1981. Carbon and oxygen isotopic disequilibria of Recent deep-sea benthic foraminifera. Marine Micropaleontology, 6, 483-497.
- Corliss, B.H., Hollister, C.D., et al., 1982. A paleo-environmental model for Cenozoic sedimentation in the central North Pacific, In: The Ocean Floor (eds. R.A. Scrutton and M. Talwani), John Wiley and Sons, New York: 277-304.
- Corliss, B.H., Hunt, A.S. and Keigwin, L.D., Jr., 1982. Benthonic foraminiferal faunal and isotopic data for the Holocene evolution of the Champlain Sea. Quaternary Research, 17, 325-338.
- Corliss, B.H., 1982. Linkage of North Atlantic and Southern Ocean deep-water circulation during glacial intervals. Nature, 298, 458-460.
- Williams, D.F. and Corliss, B.H., 1983. The South Australian continental margin and the Australian-Antarctic sector of the Southern Ocean, In: The Ocean Basins and Margins, vol. 6, Indian Ocean volume, 545-584.
- Corliss, B.H., 1983a. Quaternary circulation of the Antarctic Circumpolar Current. Deep-Sea Research, 30(1), 47-61.
- Corliss, B.H., 1983b. Distribution of Holocene deep-sea benthonic foraminifera in the southwest Indian Ocean. Deep-Sea Research, 30(2A), 95-117.
- Corliss, B.H. and Thunell, R.C., 1983. Carbonate sedimentation beneath the Antarctic Circumpolar Current. Marine Geology, 51, 293-326.
- Corliss, B.H. Aubry, M.P., Berggren, W.A., Fenner, J.M., Keigwin, L.D., Jr., and Keller, G., 1984. The Eocene/Oligocene boundary event in the deep-sea. Science, 226, 806-810.
- Keigwin, L.D., Corliss, B.H., Druffel, E.R.M., and Lane, E.P., 1984. High resolution isotope study of the latest deglaciation based on Bermuda Rise cores. Quaternary Research, 22, 383-386.

- Corliss, B.H., 1985. Microhabitats of benthic foraminifera within deep-sea sediments. Nature, 314, 435-438.
- Corliss, B.H., and Keigwin, L.D., Jr., 1986. Eocene-Oligocene paleoceanography, In: K.J. Hsu (Ed.), Mesozoic and Cenozoic Oceans. American Geophysical Union, Geodynamics Series, 15, 101-118.
- Keigwin, L.D. and Corliss, B.H., 1986. Stable isotopes in Eocene/Oligocene foraminifera. Geological Society of America Bulletin, 97, 335-345.
- Thunell, R.C., and Corliss, B.H., 1986. Late Eocene-early Oligocene carbonate sedimentation in the deep sea, In: C. Pomeroy and I. Premoli-Silva (Eds.), Terminal Eocene Events, Elsevier, Amsterdam, 363-380.
- Corliss, B.H., Martinson, D.G., and Keffer, T., 1986. Late Quaternary deep-ocean circulation. Geological Society of America Bulletin, 97, 1106-1121.
- Braatz, B.V., and Corliss, B.H., 1986. Calcium carbonate undersaturation of the bottom waters in the South Australian Basin during the last 3.2 million years. Journal of Foraminiferal Research, 17(3), 257-271.
- Corliss, B.H., and Chen, C., 1988. Morphotype patterns of Norwegian Sea deep-sea benthic foraminifera and ecological implications. Geology, 16, 716-719.
- Keffer, T., Martinson, D.G., and Corliss, B.H., 1988. The position of the Gulf Stream during Quaternary glaciations. Science, 241, 440-442.
- Corliss, B.H., and Emerson, S., 1990. Distribution of Rose Bengal stained deep-sea benthic foraminifera from the Nova Scotian continental margin and Gulf of Maine. Deep-Sea Research, 37, 381-400.
- McCorkle, D.C. Keigwin, L.D., Corliss, B.H., and Emerson, S.R., 1990. The influence of microhabitats on the carbon isotopic composition of deep-sea benthic foraminifera. Paleoceanography, 5, 161-185.
- Nolet, G.J., and Corliss, B.H., 1990. Benthic foraminiferal evidence for reduced deep-water circulation during sapropel deposition in the eastern Mediterranean. Marine Geology, 94, 109-130.
- Corliss, B.H., and Fois, E., 1990. Morphotype analysis of deep-sea benthic foraminifera from the northwest Gulf of Mexico. Palaios, 5, 589-605.
- Corliss, B.H., 1991. Morphology and microhabitat preferences of benthic foraminifera from the northwest Atlantic Ocean. Marine Micropaleontology, 17, 195-236.

- Rosoff D.B., and Corliss, B.H., 1992. An analysis of recent deep-sea benthic foraminiferal morphotypes from the Norwegian and Greenland Seas. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 91, 13-20.
- Hunt, A.S., and Corliss, B.H., 1993. The distribution of living (stained) benthic foraminifera from the Canadian Arctic Archipelago. *Marine Micropaleontology*, 20, 321-345.
- Corliss, B.H., and Tj.C.E. van Weering, 1993. Living (stained) benthic foraminifera within surficial sediments of the Skagerrak. *Marine Geology*, 111, 323-335.
- Corliss, B.H., and Silva, K.A., 1993. Rapid growth of deep-sea benthic foraminifera. *Geology*, 21, 991-994.
- Goldstein, S.T., and Corliss, B.H., 1994. Deposit feeding in selected deep-sea and shallow-water benthic foraminifera. *Deep-Sea Research*, 41, 229-241.
- Rathburn, A.E., and Corliss, B.H., 1994. The ecology of living (stained) deep-sea benthic foraminifera from the Sulu Sea. *Paleoceanography*, 9, 87-150.
- Silva, K., Corliss, B., Rathburn, A., and Thunell, R., 1996. Seasonality of living benthic foraminifera from the San Pedro Basin. California Borderland, *Journal of Foraminiferal Research*, 26, 71-93.
- Rathburn, A.E., Corliss, B.H., Tappa, K.D., and Lohmann, K.C., 1996. A comparison of living (stained) benthic foraminifera from the Sulu and South China Seas: Observations on their ecology and stable isotopic compositions. *Deep-Sea Research I*, 43, 1617-1646 .
- Bornmalm, L., Corliss, B.H., and Tedesco, K., 1997. Laboratory observations of rates and patterns of movement of continental margin benthic foraminifera. *Marine Micropaleontology*, 29, 175-184.
- McCorkle, D.C., Corliss, B.H., and Farnham, C.A., 1997. Vertical distributions and isotopic compositions of live (stained) benthic foraminifera from the North Carolina and California continental margins. *Deep-Sea Research I*, 44, 983-1024.
- Corliss, B. H., McCorkle, D. C., and Higdon, D. M., 2002. Seasonal changes of the carbon isotopic composition of deep-sea benthic foraminifera. *Paleoceanography*, 17, 10.1029/2001PA000664.
- Ciampaglio, C. N., Wray, G. A., and Corliss, B. H., 2005, A toothy tale of evolution: Convergence in tooth morphology among marine Mesozoic-Cenozoic sharks, reptiles, and mammals, *The Sedimentary Record*, December, 4-8.
- Sun, X., Corliss, B. H., Brown, C. W., and Showers, W. J., 2006, The effect of primary productivity and seasonality on the distribution of deep-sea benthic foraminifera in the North Atlantic. *Deep-Sea Research I*, 53, 28-47.

Corliss, B. H., X. Sun, C. W. Brown, and W. J. Showers, 2006, Influence of Seasonal Primary Productivity on $\delta^{13}\text{C}$ of North Atlantic deep-sea benthic foraminifera, *Deep Sea Research I*, 53, 740-746.

Cohen, A. L., G. A. Gaetani, T. Lundalv, B. H. Corliss, and R. Y. George, 2006, Compositional variability in a cold-water scleractinian, *Lophelia pertusa*: New insights into "vital effects," *Geochemistry, Geophysics, Geosystems*, 7, Q12004, doi:10.1029/2006GC001354.

Healey, S. L., R. C. Thunell, and B. H. Corliss, 2008, The Mg/Ca-temperature relationship of benthic foraminiferal calcite: New core-top calibrations in the <4 °C temperature range, *Earth and Planetary Science Letters*, 272, 523-530.

Corliss, B. H., C. W. Brown, X. Sun, and W. J. Showers, 2009, Deep-sea diversity linked to seasonality of pelagic productivity, *Deep-Sea Research I*, doi:10.1016/j.dsr.2008.12.009.

Abstracts

Huang, T.C., Freed, W.K. and Corliss, B.H., 1974. Tephra in deep-sea sediments of the northeastern Atlantic downwind from the Azores Islands. *Geol. Soc. Amer. Proc.*, 6, 801.

Corliss, B.H., 1975. Late Pleistocene paleoclimatology: Planktonic foraminiferal analyses of sediment cores from the central North Atlantic. *EOS*, 56(6), 384.

Corliss, B.H., 1976. Influence of abyssal circulation on the distribution of benthic foraminifera in the southeast Indian Ocean. *EOS*, 57(4), 258.

Corliss, B.H., 1977. Recent abyssal benthonic foraminiferal distributions in the southeast Indian Ocean: Inferred bottom water routes and ecological implications. *INQUA Tenth International Congress*. Birmingham, England, Abstracts: 96.

Sommer, M.A., II, Williams, D.F., Corliss, B.H. and Rye, D., 1977. Oxygen isotope internal thermometry using benthic calcite and aragonite foraminifera pairs. *EOS*, 58(6), 415.

Corliss, B.H., 1977. Late Quaternary Antarctic Bottom-Water history: Deep-sea benthonic foraminiferal evidence from the southeast Indian Ocean. *Geol. Soc. Amer. Proc.*, 9, 936.

Corliss, B.H. and Hollister, C.D., 1979. Cenozoic sedimentation in the central North Pacific. *EOS*, 60(18), 277-278.

Corliss, B.H., 1979. Responses of deep-sea benthonic foraminifera to the development of the psychrosphere near the Eocene/Oligocene boundary. *Geol. Soc. Amer. Proc.*, 11, 405.

- Corliss, B.H., 1980. Deep-sea benthonic foraminiferal response to the development of the psychrosphere near the Eocene/Oligocene boundary. 26th International Geological Congress, Paris, France, Abstracts, 1, 218.
- Corliss, B.H., 1980. Quaternary glacial-interglacial oscillations of Southern Ocean deep-sea benthonic foraminifera. Geol. Soc. Amer. Proc., 12(7), 406.
- Gribble, D., Williams, D.F. and Corliss, B.H., 1980. Calcium carbonate dissolution in the Southern Ocean during the last 0.69 million years. EOS, 61(17), 258.
- Corliss, B.H., 1981. Distribution of Recent deep-sea benthonic foraminifera from the southwest Indian Ocean, AAPG-SEPM Annual Meeting.
- Corliss, B.H. and Honjo, S., 1981. Calcareous dissolution of deep-sea benthonic foraminifera. Geol. Soc. Amer. Proc., 13(7), 431.
- Corliss, B.H. and Honjo, S., 1982. Dissolution of deep-sea benthonic foraminifera. Joint Oceanographic Assembly, Halifax, Nova Scotia, Abstracts, 2, 125.
- Corliss, B.H., Keigwin, L.D., Jr. and Berggren, W.A., 1982. Late Eocene-early Oligocene paleoceanography of the Gulf Coast region. Geol. Soc. Amer. Proc., 14(7), 467.
- Keigwin, L.D., Jr. and Corliss, B.H., 1982. Eocene-Oligocene isotopic paleoceanography. Geol. Soc. Amer. Proc., 14(7), 527.
- Corliss, B.H. and Keigwin, L.D., Jr., 1983. Eocene-Oligocene benthonic foraminifera: implications for deep-water circulation history. AAPG Bull., 67(3), 443-444.
- Keigwin, L.D., Jr., and Corliss, B.H., 1983. Preliminary synthesis of Eocene-Oligocene stable isotope data from Atlantic, Indian, and Pacific Ocean sites. AAPG Bull., 67(3), 493.
- Thunell, R.C., and Corliss, B.H., 1983. Late Eocene and early Oligocene carbonate sedimentation in the deep-sea. AAPG Bull., 67(3), 558.
- Corliss, B.H., and Keigwin, L.D., Jr., 1983. The Eocene/Oligocene event in the deep-sea. First International Conference on Paleoceanography, Zurich, Switzerland, Abstracts, 16.
- Keigwin, L.D., Jr., Corliss, B.H., Druffel, E.M., and Lane, E.P., 1983. High resolution isotope study of the latest deglaciation from Bermuda Rise Cores. EOS, 64(45), 696.
- Braatz, B.V., and Corliss, B.H., 1984. Antarctic Bottom Water circulation in the South Australian Basin during the last 3.2 million years. EOS, 65 (45), 972.
- Corliss, B.H., 1984. Microhabitats of benthonic foraminifera within deep-sea sediments. EOS, 65(45), 973.

- Corliss, B.H., S. Emerson, L.D. Keigwin and D.C. McCorkle, 1986. Microhabitats and distribution of deep-sea benthic foraminifera. Second International Conference on Paleoceanography, Woods Hole, MA.
- Emerson, S., D. McCorkle, L. Keigwin and B. Corliss, 1986. Carbon isotope signature of infaunal benthic foraminifera: preliminary results and a paleoceanographic application. Second International Conference on Paleoceanography, Woods Hole, MA.
- Corliss, B.H., and S. Emerson, 1986. Living benthic foraminifera from the Nova Scotian continental margin. SEPM Annual Midyear Meeting, Raleigh, NC, 3, 25.
- Keffer, T., D.G. Martinson and B.H. Corliss, 1986. On the relationship between paleo wind fields and the position of the subtropical/subpolar boundary during Quaternary glaciations. AGU Fall meeting.
- Corliss, B. H., 1986. Shape patterns of deep-sea benthic foraminifera and ecological implications. EOS, 67(44), 974.
- Corliss, B. H., 1987. Microhabitats and functional morphology of benthic foraminifera. Benthic Ecology Meeting, March, 1987.
- Corliss, B. H., 1987. Morphotype analysis of Gulf of Mexico benthic foraminifera. Geol. Soc. Amer. Abstracts, 19(7), 627.
- Corliss, B. H., 1987. Recent advances in benthic foraminiferal ecology: Implications for oil exploration. Ocean '87 Proceedings, Halifax, 3, 935.
- Nolet, G., and B.H. Corliss, 1987. Benthic foraminiferal response to sapropel deposition in the Late Quaternary Eastern Mediterranean. EOS, 68(16), 329.
- Thunell, R.C., and B.H. Corliss, 1989. Glacial-Holocene deep water circulation patterns in the western equatorial Pacific. EOS, 70(15), 365.
- Corliss, B., 1989. Functional morphology of deep-sea benthic foraminifera. Benthic Ecology Meeting, Solomons, Maryland, 14.
- Corliss, B., 1989. Deep-sea benthic foraminifera: ecology and paleo-oceanographic applications. Third International Conference on Paleo-oceanography, Cambridge, England, 11.
- Goldstein, S.T., and Corliss, B., 1989. Deposit feeding in selected deep-sea benthic foraminifera. Third International Conference on Paleo-oceanography, Cambridge, England, 58.
- Rathburn, A.E., Corliss, B.H., and Rutgers Van Der Loeff, M.M., 1989. The ecology of deep-sea benthic foraminifera from the Sulu Sea. Third International Conference on Paleo-oceanography, Cambridge, England, 60.

- McCorkle, D.C., Keigwin, L.D., Corliss, B.H., and Emerson, S.R., 1989. The ^{13}C of *Uvigerina* and the pore water ^{13}C gradient at the sediment-water interface. Third International Conference on Paleo-oceanography, Cambridge, England, 63.
- McCorkle, D.C., Keigwin, L.D., Corliss, B.H., and Emerson, S.R., 1990. The influence of microhabitats on the carbon isotopic composition of deep-sea benthic foraminifera. EOS, 71, 117.
- Corliss, B.H., and van Weering, Tj. C.E., 1991. Living (stained) benthic foraminifera from the Skagerrak Region of the North Sea. EOS, 72, 156.
- Rathburn, A.E., Corliss, B.H., and Tappa, K.D., 1991. A comparison of living (stained) deep-sea benthic foraminifera from the Sulu Sea, the South China Sea and the Western Caroline Basin. EOS, 72, 265.
- Silva, K.A., and Corliss, B.H., 1991. Temporal variation in benthic foraminiferal populations in the California Borderlands. EOS, 72, 265.
- Corliss, B.H., and Rathburn, A.E., 1992. The effect of low bottom-water oxygen on surface pore characteristics of deep-sea benthic foraminifera. EOS, 73, 275.
- Silva, K.A., and Corliss, B.H., 1992. Seasonality of benthic foraminifera from the California Borderlands. Benthic Ecology Meeting, Newport, Rhode Island.
- Rathburn, A.E., and Corliss, B.H., 1992. Living (stained) benthic foraminifera from the low-oxygen environments of the Sulu Sea (Philippines). Fourth International Conference on Paleoceanography, Kiel, Germany.
- Rathburn, A.E., Corliss, B.H., and Lohmann, K.C., 1992. Stable isotopic composition of living (stained) benthic foraminifera from the Sulu Sea (western Pacific). Geol. Soc. Amer. Abstracts, 24, 224.
- Corliss, B.H., Erlenkeuser, H., and Lutze, G.F., 1993. Carbon isotopic analysis of epifaunal and infaunal benthic foraminifera from the northwest African margin. EOS, 74, 184.
- Corliss, B.H., and Silva, K.A., 1993. Rapid growth and seasonal variation of deep-sea benthic foraminifera. The Oceanography Society, Third Scientific Meeting, Seattle, WA, 148.
- Corliss, B.H., G.T. Chandler and N. Healy-Williams, 1994. Culturing of deep-sea benthic foraminifera: Preliminary results. EOS, 75 (3), 27.
- Corliss, B., G. T. Chandler and N. Healy-Williams, 1994. Laboratory observations of deep-sea benthic foraminifera. 22nd Benthic Ecology Meeting, Mystic, CT
- Corliss, B., 1994. The ecology of deep-sea benthic foraminifera. PaleoBios, 6, 28

- Bornmalm, L., B.H. Corliss, K. Tedesco and W. J. Showers, 1994. Stable isotopic composition of deep-sea benthic foraminifera: Size fraction data. EOS, 75 (44), 352.
- Martin, P.A., D.W. Lea, D.C. McCorkle, B.H. Corliss and G.P. Klinkhammer, 1994. Incorporation of Cd, Ba and Mn in live benthic foraminifera. EOS, 75 (44), 383.
- Corliss, B.H., 1994. Pelagic-benthic coupling: The influence of organic carbon on deep-sea benthic foraminifera. EOS, 75 (44), 397.
- McCorkle, D.C., B.H. Corliss and C.A. Farnham, 1994. Vertical distributions and isotopic compositions of live (stained) benthic foraminifera from the North Carolina and California continental margins: Microhabitats and calcification. EOS, 75 (44), 397.
- Healy-Williams, N., G.T. Chandler and B.H. Corliss, 1994. Culture of extant species of deep-ocean benthic foraminifera: Implications in paleoenvironmental reconstructions. EOS, 75 (16), 209.
- Bornmalm, L., B.H. Corliss and R. Beavers, 1994. Laboratory observations of rates and patterns of movement of continental margin benthic foraminifera. Geol. Soc. Amer. Abstracts, 26 (7), A-344.
- Bornmalm, L., Corliss, B.H., Showers, W.J., and McCorkle, D.C., 1995. Size fraction data of stable isotopes of deep-sea benthic foraminifera. 5th International Conference on Paleooceanography, Halifax, Nova Scotia, 32.
- McCorkle, D.C., Martin, P.A., Lea, D.W., Klinkhammer, G.P., McManus, J., and Corliss, B.H., 1995. Isotopic and elemental composition of live benthic foraminifera from continental margin sediments: Multiproxy tests of microhabitat effects. 5th International Conference on Paleooceanography, Halifax, Nova Scotia, 53.
- Corliss, B.H., and Miao, Q., 1995. Linkage of Southern Ocean Paleoproductivity and terrigenous input during the Eocene and Oligocene. EOS, 76(46), F305.
- Martin, P.A., Lea, D.W., McCorkle, D.C., Corliss, B.H., and Klinkhammer, G.P., 1996. Trace metal composition of benthic foraminifera as an indicator of microhabitat preference. Geological Society of America Abstracts with Programs, 28, 39.
- McCorkle, D.C., and Corliss, B.H., 1996. *Cibicidoides wuellerstorfi* $\delta^{13}\text{C}$ values and bottom water $\delta^{13}\text{C}$, EOS, 77, 334.
- Corliss, B.H., and McCorkle, D.C., 1997. Seasonality of deep-sea benthic foraminifera: Carbon isotopic results, EOS, 78, F359.

- Bornmalm, L., and Corliss, B.H., 1997. Laboratory and video observations of cultured benthic foraminifera from the Mid-Atlantic continental margin. Development of Paleoceanography as a New Field of Science, Commemorating the 50th Anniversary of the Albatross Expedition 1947-1948, Abstracts of Papers Special Publication p. 43. The Royal Swedish Academy of Sciences.
- Corliss, B.H., 1998. Seasonal succession of deep-sea benthic foraminifera, EOS, 79, F454.
- McCorkle, D.C., Martin, P.A., Corliss, B.H. Lea, D.W., McManus, J., and Klinkhammer, G.P. 1999. Calibration studies of benthic foraminiferal isotopic and elemental composition. EOS 80, S172.
- Sun, X., Corliss, B. H., Brown, C. W., and Showers, W. J., 1999. The carbon isotopic composition of *Epistominella exigua*: a proxy for reconstructing primary productivity. EOS, 80, F534.
- Sun, X., Corliss, B. H., and Brown, C. W., 2000. The effect of seasonality of primary productivity on the distribution of deep-sea benthic foraminifera in the North Atlantic. EOS, 81, S275.
- Corliss, B. H., X. Sun, and C. W. Brown, 2000. The diversity of deep-sea benthic foraminifera in the North Atlantic. American Geophysical Union Fall Meeting, EOS, 81, F598..
- Corliss, B. H., Sun, X., Brown, C. W., McCorkle, D. C., Showers, W. J., and Higdon, D. M., 2001, The influence of primary productivity and seasonality of productivity on deep-sea benthic foraminifera, Geol. Soc. Amer. Annual Meeting, Abstracts with Program, 33, A-218.
- Corliss, B. H., X. Sun, C. W. Brown, and W. J. Showers, 2005, The influence of organic carbon flux on benthic foraminiferal proxies, Eos Trans. AGU, 86(52), Fall Meet. Suppl. Abstract PP33A-1543.
- Ciampaglio, C. N., G. A. Wray, and B. H. Corliss, 2005, Tooth morphology and niche replacement: Analysis of Cretaceous sharks, Mesozoic marine reptiles and Tertiary marine mammals, Geological Society of America, Southeastern Meeting, Abstract with Programs, 37, 38.
- Peterson, V. M., B.H. Corliss, D. R. Corbett, and G. S. Dwyer, 2005, Mg/Ca and $\delta^{18}\text{O}$ time series of benthic foraminifera in Pamlico Sound, NC.: Development of environmental proxies, 18th Biennial Conference of the Estuarine Research Federation, Norfolk, Virginia, Conference Abstracts, 142.
- Cohen, A. L., J. Crusius, B. H. Corliss, R. Y. George, and T. Lundalv, 2005, Skeletal growth and chemistry of two North Atlantic deep water Scleractinia, Third International Symposium on Deep-Sea Corals, Miami, Florida, Program and Abstract Book, 77.

Corliss, B. H., X. Sun, C. W. Brown, and W. J. Showers, 2006, The influence of primary productivity and seasonality of productivity on the North Atlantic benthos: Benthic foraminiferal faunal and isotopic results, 11th International Deep-Sea Biology Symposium, Southampton, U.K.

Corliss, B. H., X. Sun, and C. W. Brown, 2006, Seasonality of primary productivity influences deep-sea biodiversity, *Eos Trans. AGU*, 87(52), Suppl., Abstract OS32B-08

Healey, S. L., R. C. Thunell, and B. H. Corliss, 2006, Changes in deep ocean conditions of the last 450 thousand years based on paired measurements of benthic foraminiferal $\delta^{18}\text{O}$ and Mg/Ca: Evidence from the eastern equatorial Pacific, *Eos Trans. AGU*, 87(52), Suppl., Abstract PP51B-1138.

Brown, C. W., R. O'Malley, and B. H. Corliss, 2007, Variability in the intermittency of oceanic primary production, American Society of Limnology and Oceanography 2007 Aquatic Sciences Meeting.

Healey, S., Thunell, R. C., and Corliss, B. H., 2007, The Mg/Ca temperature relationship of benthic foraminiferal calcite: New core-top calibrations in the <4°C temperature range, American Geophysical Union Annual Meeting, <http://127.0.0.1:6017/html/PP41E-02>.

Corliss, B.H., and A. E. Rathburn, 2008, Pore characteristics of deep-sea benthic foraminifera and linkage to oxygen levels, 33rd Int. Geol. Congress, Oslo.

Other Publications

Corliss, B.H. and Hunt, A.S., 1973. The distribution of phosphorus in the sediments of St. Albans Bay, Lake Champlain. Champlain Research Reports, 4, 1-8.

Corliss, B.H., 1976. Recent deep-sea benthic foraminiferal distributions in the southeast Indian Ocean. Antarctic Journal of the United States, 11 (3), 165-167.

Corliss, B.H., 1978. Studies of deep-sea benthonic foraminifera in the southeast Indian Ocean. Antarctic Journal of the United States, 13(4), 116-18.

Corliss, B.H., 1979. Response of deep-sea benthonic foraminifera to the development of the psychrosphere near the Eocene/Oligocene boundary. Antarctic Journal of the United States, 14(5), 132-134.

Corliss, B.H., 1980. Distribution of Recent deep-sea benthonic foraminifera from the southwest Indian Ocean. Antarctic Journal of the United States, 15(5), 132-133.

Hollister, C.D., Corliss, B.H. and Anderson, R.D., 1980. Submarine geological disposal of nuclear waste, In: Underground Disposal of Radioactive Wastes, vol. 1, International

Atomic Energy Agency, Vienna, 131-139.

Corliss, B.H., 1981. Quaternary paleocirculation of the Antarctic Circumpolar Current. Antarctic Journal of the United States, 16(5), 122-124.

Corliss, B.H. and Honjo, S., 1981. Calcareous dissolution of deep-sea benthonic foraminifera. Antarctic Journal of the United States, 16(5), 133-137.

Corliss, B.H. and Thunell, R.C., 1983. Carbonate sedimentation beneath the Antarctic Circumpolar Current. Antarctic Journal of the United States, 18(5), 141-142.

Braatz, B.V., and Corliss, B.H., 1984. Antarctic Bottom Water circulation in the South Australian Basin during the last 3.2 million years. Antarctic Journal of the United States, 19(5), 84-88.

Corliss, B.H., 1993. Marine micropaleontology and global change research. Palaios, 8 (editorial).