

William John Merrell, Jr.
Professor, Department of Marine Sciences
Texas A&M University at Galveston

PROFESSIONAL INTERESTS:

Ocean and coastal policy
The Earth as an integrated system
Mesoscale and large-scale circulation patterns and property distributions in the ocean

ACADEMIC ATTAINMENT:

- B.S. Physics and Mathematics majors
 Sam Houston State College
 Huntsville, Texas 1965
- M.A. Physics major; Mathematics minor
 Sam Houston State College
 Huntsville, Texas 1967
- Ph.D. Oceanography major
 Texas A&M University
 College Station, Texas 1971

PROFESSIONAL EXPERIENCE:

- Director, Center for Texas Beaches and Shores
Texas A&M University at Galveston, 2006 - 2009
- Interim CEO
Texas A&M University at Galveston 2010 - 2011
- George P. Mitchell Professor
Texas A&M University at Galveston, 2002 - present
- President
The H. John Heinz III Center for Science, Economics and the Environment,
1995 - 2002
- Vice Chancellor for Strategic Programs
The Texas A&M University System, 1993-1995

Vice President for Research Policy
Texas A&M University, 1992-1993

President
Texas Institute of Oceanography, 1989-1991

President
Texas A&M University at Galveston, 1987-1992

Coordinator of Marine Programs
The Texas A&M University System, 1987-1992

Assistant Director
National Science Foundation, 1985-1987

Professor
Departments of Oceanography
Texas A&M University, 1985-2002

Director
Division of Atmospheric and Marine Sciences
College of Geosciences
Texas A&M University, 1985

Principal Investigator
Ocean Drilling Program
Texas A&M University, 1983-1985

Associate Dean
College of Geosciences
Texas A&M University, 1983-1984

Director
Earth Resources Institute
Texas A&M University, 1983-1984

Associate Professor
Department of Oceanography
Texas A&M University, 1981-1985

Deputy Department Head
Department of Oceanography
Texas A&M University, 1981-1983

Program Manager
Gulf of Mexico Topographic Features
Synthesis, 1981-1983

Oceanographer and Manager
Climate and Coastal Zone Branch
Science Applications, Inc., 1979-1980

Associate Director
Earth Resources Institute
Texas A&M University, 1978-1979

Assistant to the Dean
College of Geosciences
Texas A&M University, 1978-1979

Deputy Sea Grant Director
Texas A&M University, 1977-1978

Lecturer and Deputy Department Head
Department of Oceanography
Texas A&M University, 1977-1979

Executive Officer
Office of the International Decade of Ocean Exploration
National Science Foundation, 1974-1977

Research Associate
Department of Oceanography
Texas A&M University, 1973-1974

Research Program Management System Officer
Office of the International Decade of Ocean Exploration
National Science Foundation, 1972-1973

Research Associate
Department of Oceanography
Texas A&M University, 1969-1972

PROFESSIONAL RECOGNITION:

National Hurricane Conference Outstanding Achievement Award – Mitigation 2017

Bay Area Houston Economic Development Quasar Award 2015

Galveston Chamber of Commerce Unsung Hero Award 2013

Who's Who (Various)

Rear Admiral (Retired)

United State Maritime Service

Distinguished Achievement Award - 1990
Geosciences and Earth Resources Council

Distinguished Alumni Award - 1988
Sam Houston State University

Distinguished Service Award - 1987
National Science Foundation

Distinguished Member Award - 1987, Sigma Xi
Texas A&M University

Distinguished Service Award - 1984
National Science Foundation
Team Award for Ocean Drilling Program

Texas Academy of Sciences

Oceanography Society

Alpha Chi

Sigma Pi Sigma

Phi Kappa Phi

Sigma Xi

Executive Leadership and Management Program - Federal Executive Institute

University Fellow - 1970, Texas A&M University

NDEA Fellow - 1967 to 1969, Texas A&M University

Graduate Fellow - 1965 to 1967, Sam Houston State College

Physics Award - 1964, Most outstanding undergraduate student in physics

PROFESSIONAL ACTIVITIES:

Member, Community Recovery Committee, City of Galveston, 2009

Member, The Mayor's Committee on the East End Lagoon Preservation Project, City of

Galveston, 2008 to present

Member, Natural Resources Subcommittee, City of Galveston, 2008

Member, Coastal Hazards Subcommittee, City of Galveston, 2008

Chair, Sustainability Subcommittee, City of Galveston, 2008

Member, Advisory Council, Trust for Public Land, 2007

Member, Comprehensive Plan Review Committee, City of Galveston, 2006

Member, Hurricane Recovery Task Force, City of Galveston, 2006 to present

Member, NCAR Advisory Committee, 2005

Advisory Director, Frost Bank, 2005 to present

Chair, Board of Directors, The Institute for Oceans and Coasts, 2005

Member, BP Bay Crossing LNG Community Advisory Panel, 2005

Member, Advisory Committee, Frank Evans Mediation Center, South Texas School of Law, 2005 to present

Co-Chairman, Fish Performance Measures Workshop, NOAA Fisheries, 2002

Chairman, Workshop on Individual Fishing Quotas, NOAA Fisheries, 2002

Chairman, Summer Flounder Workshop, NOAA Fisheries, 2001

Member, Advisory Council for the National Center for Atmospheric Research, 2001-present

Member, Subcommittee on Global Change Research Programs, Biological and Environmental Research Advisory Committee, U.S. Department of Energy, 2001-present

Member, Executive Campaign Cabinet
Earth Systems Science Research Center
University of California, Irvine, 2000-present

Member, U. S. President's Panel on The Ocean Exploration
U.S. Department of Commerce, 2000

Panel Chair, Governance
Oceans for the New Millennium: Developing and Implementing Ocean Policy

American Geophysical Union and the American Association for the Advancement of Science, Washington, DC, July 18, 2000

Member, Board of Directors

Houston Advance Research Center, 1999-2015

Member, Task Group on Assessment of NASA Plans for Post-2000 Earth Observing Missions Space Studies Board, National Academies of Science, 1997-1999

Member, Meeting of Eminent Persons on the Geosciences and the United Nations System, December, 1996

Member, Global Commons Advisory Committee

Houston Advanced Research Center, 1995-present

Member, Scientific Programs Evaluation Committee

University Corporation for Atmospheric Research, 1995-2000

Member, Board on Sustainable Development

National Research Council, 1995-present

Member, Committee on Global Change

National Research Council, 1995-1997

Member, Historic Preservation Board

City of Galveston, 1995-present

Chair, Ocean Studies Board

National Research Council, 1994-1997

Member, Advisory Committee for Geosciences

National Science Foundation, 1994-1995

Member, Scientific Committee

Outer Continental Shelf Advisory Board
Department of Interior, 1993-1999

Member, Advisory Committee for Research Programs

Texas Higher Education Coordinating Board, 1993-1999

Member, Board of Advisors

Galveston Historical Foundation, 1992-1994

Member, Fisheries Committee

National Research Committee, 1992-1994

Chair, Committee on International Space Programs
National Research Council, 1992-1994

Member, Ocean Studies Board
National Research Council, 1991-present

Member, Board of Directors
United States National Bank, 1991-present

Member, Earth Observation System Review Panel
Committee on Global Change
National Research Council, 1990

Member, Advisory Board
A.A. White Dispute Resolution Institute, 1990-1995

Member, Committee for U.S. Global Change Program
Committee on Global Change
National Research Council, 1990

Member, Committee on Human Exploration of Space
National Research Council, 1990-1997

Chairman, Marine Division
National Association of State Universities and Land Grant Colleges, 1989-1991

Member, Space Studies Board
National Research Council, 1989-1994

Member, Board of Directors
Galveston Chamber of Commerce, 1989-1994

Chairman, Advisory Committee on Oceanography
NASA Headquarters, 1989

Member, Board of Directors
Galveston Economic Development Corporation, 1989-1997

Member, Program Committee
Chapman Conference on the Physics of the Gulf of Mexico, 1989

Member, Board of Counselors
St. Mary's Hospital, 1989-1994

Member, Scientific Advisory Committee
Galveston Bay National Estuary Program, 1989

Member, Presidential Search Committee
Prairie View A&M University, 1989

Vice Chairman, Committee on Science and Technology
American Association of State Colleges and Universities, 1988-1989

Member, Board of Directors
Offshore Energy Museum, 1988-1994

Advisory Trustee
Galveston Bay Foundation, 1988-present

Member, Board of Directors
The William Temple Foundation, 1988-1991

Member, Board of Directors
Galveston Historical Foundation, 1988-1992, 1994-present

Member, Presidential Search Committee
Texas A&M University, 1988

Member, Board of Councilors,
Texas A&M Research Foundation, 1988-1995

Member, Committee of Advisors
28th International Geological Congress, 1986-1995

Member, Antarctic Policy Committee, 1985-1987

Member, Federal Relations Committee
National Association of State Universities and Land Grant Colleges, 1985

Member, Ocean Sciences Advisory Committee
Sub-Committee on National and Regional Facilities
National Science Foundation, 1985

Member, Marine Research Coordination Committee
Texas A&M University System, 1984

Member, International Marine Sciences Committee
National Association of State Universities and Land Grant Colleges, 1984-1985

University Delegate, Marine Division
National Association of State Universities and Land Grant Colleges, 1983-1985,
1987-1989

Member, Executive Committee

JOIDES 1983-1985, 1987-present

Member, Board of Governors, Joint Oceanographic
Institutions, Inc., 1983-1985, 1987-1992

Treasurer, Joint Oceanographic Institutions, 1982-1983

Coordinator, Workshop on the Circulation of the Gulf of Mexico
Mexico City, Mexico, October 1982

Member, Executive Committee
Ocean Sciences Advisory Committee
National Science Foundation, 1981-1983

Member, Graduate Faculty
Texas A&M University, 1981-present

Member, U.S.-Mexico Workshop Group in the Ocean Sciences, 1978-1981

Member, Research Council
Texas A&M University, 1978-1979, 1983-1984

Member, Oceanographic Facilities Review Panel
National Science Foundation, 1978-1980

Consultant, Foreign Governments
Industry and Admiralty Law Firms, 1977-present

Chairman, Technological Advances Associated with the International
Decade of Ocean Exploration,
Marine Technological Society Meeting, Los Angeles, California, 1977

Head, United States Delegation
Fifth Regional Meeting on Training, Education and Mutual Assistance (TEMA),
Montevideo, Uruguay, 1976

Member, United States Delegation
Intergovernmental Oceanographic Commission's Symposium on the "El Nino,"
Guayaquil, Ecuador, 1974

REPORTS AND PUBLICATIONS

1967 Merrell, W. J., Jr. Effects of an electric field on the thermoluminescent
glow curve on lithium fluoride. Master's Thesis, Sam Houston State
College, Huntsville, Texas 35 pp.

1968 Paris, J. F., J. Arnold, F. Chmelik and W. J. Merrell, Jr. Scientific value

- (of Apollo 502 photography) for oceanography and marine meteorology. Chapter 9, NASA Report on the Scientific Value of Apollo 502 Photography for Earth Sciences.
- 1969 Merrell, W. J., Jr., J. G. Paris and R. E. Whitaker. Scientific value (of Apollo 9 Photography) for oceanography. Chapter 9, NASA report on the Scientific Value of Apollo 9 Photography for Earth Sciences.
- 1969 Merrell, W. J., Jr. Apollo photography and multisensor aircraft data. Published in *Proceedings of the Color of the Ocean Conference*, Woods Hole, Massachusetts, August 5-6, 1969.
- 1969 Merrell, W. J., Jr. And R. E. Whitaker. An oceanography analysis of data recorded on ships and aircraft, NASA, Aircraft Mission 91, Site 705, Veracruz, Mexico. Technical Report, 13 pp.
- 1969 Merrell, W. J., Jr., and J. F. Paris. Scientific value (of Apollo 7 photography) for oceanography. Chapter 9, NASA Report on the Scientific Value of Apollo 7 Photography for Earth Sciences.
- 1970 Merrell, W. J., Jr. and G. L. Huebner. The use of aerial photography in offshore operations. *Offshore Magazine*, March 1970.
- 1970 Merrell, W. J., Jr. and R. E. Whitaker. A "Quick-look" analysis of aircraft data NASA Aircraft Mission 96, Site 805; Cabo Frio, Brazil. Texas A&M University Technical Report, 9 pp.
- 1971 Merrell, W. J., Jr. Wind-induced inertial oscillations in a linearly stratified sea. Ph.D. Dissertation, Texas A&M University, College Station, Texas 97 pp.
- 1973 Collings, C. A., J. Carlmark, W. S. Wilson, W. J. Merrell, Jr. and T. S. Barnett. The North Pacific Experiment Probes Weather Phenomenon, Marine Technology Society Journal, Jan.-Feb. 1973.
- 1973 Morrison, J. M., W. J. Merrell, Jr. and W. D. Nowlin, Jr. The Waters of the Eastern Gulf of Mexico as observed during May 1972. Reference 73-10-T, Texas A&M University, May, 1973.
- 1975 Murphy, D. L., D. F. Paskausky, W. D. Nowlin, Jr. and W. J. Merrell, Jr. Movement of surface drifters in the American Mediterranean, *J. Phys. Oceanogr.*, 5:549-551.
- 1976 Morrison, J. M., W. D. Nowlin, Jr. and W. J. Merrell, Jr. A Fall portraiture of the Eastern Caribbean, *Proceedings CICAR Symposium II*, Caracas, Venezuela, July, 1976, Abstract.
- 1978 McNally, G., A. D. Kirwan and W. J. Merrell, Jr. Technical evaluation of ADS II drifter performance. Technical Report, Texas A&M University, 182 pp.

- 1978 Kirwan, A. D., G. McNally, E. Reyna and W. J. Merrell, Jr. The near surface circulation of the eastern North Pacific. *J Phys. Oceanogr.*, 8:937-945.
- 1979 Merrell, W. J., Jr., J. M. Morrison, R. L. Molinari, W. D. Nowlin, Jr., I. H. Brooks and R. Yager. A description of the circulation observed in the eastern Gulf of Mexico during CICAR Survey. *Proceedings of the CICAR Symposium II*, Month 11, May 1982
- 1980 Kirwan, A. D. and W. J. Merrell, Jr. Comments on "Review of relative diffusion analysis and results." *J Phys. Oceanogr.*, 10:994-995.
- 1981 Merrell, W. J., Jr. and J. M. Morrison. On the circulation of the western Gulf of Mexico with observations from April, 1978. *J. Geophys. Res.*, 86:4181-4185.
- 1982 Merrell, W. J., Jr. and J. M. Morrison. Circulation patterns and water mass characteristics of the Gulf of Mexico. Presented at the AGU/ASLO Ocean Sciences Meeting, Feb. 16-19, 1982. Abstract in EOS, Jan. 19, 1982.
- 1982 Lewis, J. K., R. E. Whitaker and W. J. Merrell, Jr. The effects of a stretched-grid coordinate system on long-wave dispersion and energy characteristics. *J. Geophys. Res.* 87:4265-4266. AGU.
- 1982 Morrison, J. M. and W. J. Merrell. Property Distributions Within the Western Gulf of Mexico. Presented at the Spring AGU. Abstract in EOS, May 4, 1982.
- 1983 Sahl, L. E., W. J. Merrell, Jr. and D. W. McGrail. Currents and property distributions on the Texas shelf and slope in March 1981 and 1982. Presented at the Fall AGU. Abstract in EOS, November 9, 1982.
- 1983 Morrison, John M., W. J. Merrell, Jr., R. M. Key and T. C. Key. Property distributions and deep chemical measurements within the Western Gulf of Mexico. *J. Geophys. Res.*, 88:2601-2608.
- 1983 Merrell, William J. and Alberto M. Vasquez. Observations of changing mesoscale circulation patterns in the Western Gulf of Mexico. *J. Geophys. Res.*, 88:7721-7723.
- 1983 Kirwan, A. D., W. J. Merrell, Jr., J. K. Lewis, R. E. Whitaker and R. Legeckis. Extraction of current shear from satellite-tracked drifters. Presented at the IAPSO Symposium at the General Assembly of the IUGG in Hamburg, FRG.
- 1984 Kirwan, A. D., W. J. Merrell, Jr., J. K. Lewis, R. E. Whitaker and R. Legeckis. A model for the analysis of drifter data with an application to a warm core ring in the Gulf of Mexico. *J. Geophys. Res.*, 89:3425-3438.
- 1984 Rabinowitz, P. D., L. E. Garrison and W. J. Merrell. The new ocean drilling program. Presented at the Spring AGU. Abstract in EOS, April 17, 1984.

- 1984 Rabinowitz, P. D., L. Garrison, S. Gartner, S. Herrig, J. Mazzulo, W. J. Merrell and R. Carlson. The advanced ocean drilling program: the next phase in scientific ocean drilling. Proceedings of the Offshore Technology Conference. May 7-9, 1984.
- 1984 Rabinowitz, Philip D., Louis E. Garrison and William J. Merrell. The new ocean drilling program at Texas A&M University. *Proceedings of Oceans 1984*. pp. 896-901.
- 1985 Rabinowitz, P. D., L. Garrison, S. Herrig, R. B. Kidd, A. R. McLerran, W. J. Merrell, R. Merrill, A. W. Meyer, and R. Olivias. Scientific ocean drilling: an overview of the ocean drilling program. Proceedings of the 17th Annual OTC. May 6-9, 1985.
- 1987 Merrell, W. J. Studying global changes: an opportunity whose time has come (Editorial). *Env. Toxicology and Chemistry* 6.
- 1987 Merrell, William J. Global programs study: Earth as a system, *Geotimes*, 32 (2).
- 1987 Shal, Lauren E., William J. Merrell, David W. McGrail and John A. Webb. Transport of mud on continental shelves: evidence from the Texas shelf. *Mar. Geol.* 76:33-43.
- 1987 Schroeder, William W., Scott P. Dinnel, William J. Wiseman, Jr. and William J. Merrell, Jr. Circulation patterns inferred from the movement of detached buoys in the eastern Gulf of Mexico. *Cont. Shelf Res.* 7 (8), 1987.
- 1987 Sahl, J. and W. J. Merrell. Salinity, temperature and mixing on the Texas continental shelf. *Contributions in Marine Science*, 30:1-16
- 1988 Halper, Fern B., David W. McGrail and William J. Merrell, Jr. Seasonal Variability in the Currents on the Outer Texas-Louisiana Shelf. *Estuarine Coastal and Shelf Sci.*, 26:33-50.
- 1989 Gardner, Mary and Bill Merrell. *The Twenty-Fifth Voyage of the TEXAS CLIPPER*.
- 1990 Sahl, L. E., W. J. Merrell, Jr. and W. D. Gardner. Suspended Sediment on the Texas-Louisiana Continental Shelf and Slope, March 1989. Winter meeting of the American Geophysical Union.
- 1991 Merrell, William J. Marine Education - A Present and Future Challenge. MTS-91 New Orleans, LA. October 11, 1991.
- 1993 Sahl, Lauren E., William J. Merrell and Douglas C. Biggs. The influence of advection on the spatial variability of nutrient concentrations on the Texas-Louisiana continental shelf. *Cont. Shelf Res.*, 13:233-251.
- 1994 Sahl, L. E., W. J. Merrell and D. Weisenburg. The impact of an offshore squirt on particle and nutrient distributions in the Gulf of Mexico. *Trans. Am. Geophys. Un.*, 75 (44); 339.

- 1994 Merrell, William J. *The New American Scholar*. Today: Texas A&M University at Galveston, Fall, 1994.
- 1997 Sahl, Lauren E., Denis A. Wiesenburg and William J. Merrell. Interactions of Mesoscale Features with Texas Shelf and Slope Waters. *Cont. Shelf Res.*, 17 (2):1771-136.
- 2000 Merrell, William J. and G. Boledovich. *Oceanography: The Making of a Science*. The H. John Heinz III Center for Science, Economics and the Environment, Washington, DC, pp. 44.
- 2000 Merrell, William J., Mary Hope Katsouros, and G. Boledovich. Evolving Institutional Arrangements for U.S. Ocean Sciences. In: *50 Years of Ocean Discovery, National Science Foundation 1950-2000*. National Research Council, ed. National Academy Press, Washington, DC, 201-206.
- 2001 Leatherman, Stephen, William J. Merrell, and Robert M. Friedman. Coastal Erosion and Its Impact on the National Flood Insurance Program: The “Heinz Center Report”. *Shore & Beach*, 69:1:23-27.
- 2001 Merrell, William J. Mary Hope Katsouros, and Jacqueline Bienski. The Stratton Commission: The Model for Sea Change in National Marine Policy. *Oceanography* 14:2:10-16 (2001)
- 2001 Robert Friedman and William J. Merrell, Jr.. Coastal Erosion and the National Flood Insurance Program, pp. 6–21. In *Proceedings: 14th Annual National Conference on Beach Preservation Technology* (compiled by L. Tait). Tallahassee, FL: Florida Shore & Beach Preservation Association.
- 2005
 Harriss and Merrell - The Laboratory for Lifelong Learning and Community Sustainability
 Merrell and Harriss – Galveston Futures: creating a More Livable, Resilient, and Sustainable Community

 Merrell – The Vietnam Memorial on a Snowy Morning – in Sea Spray
- 2006
 Harriss and Merrell - The Laboratory for Lifelong Learning and Community Sustainability
 Merrell and Harriss – Galveston Futures: creating a More Livable, Resilient, and Sustainable Community
- 2007
 Ko, Merrell, Hastings, Ekstrom, and Shelton, “Defining Ecosystem Services of Galveston Bay and Corresponding Appropriate Valuation Methods” Proceedings of the 8th State of the Bay Conference

 Islam and Merrell “Galveston Futures” Presented at the American Beach and Shore Preservation Conference

- Islam, Merrell, Seitz, and Harriss. "Origin, Distribution and Timing of Texas Hurricanes: 1851-2006. Submitted to Natural Hazards Review
- 2008
- Ko, Merrell, Hastings, Ekstrom, and Shelton, "Defining Ecosystem Services of Galveston Bay and Corresponding Appropriate Valuation Methods" Proceedings of the 8th State of the Bay Conference
- Islam and Merrell "Galveston Futures" Presented at the American Beach and Shore Preservation Conference
- Islam, Merrell, Seitz, and Harriss. "Origin, Distribution and Timing of Texas Hurricanes: 1851-2006. Submitted to Natural Hazards Review
- 2009
- Islam and Merrell "Galveston Futures" Presented at the American Beach and Shore Preservation Conference. Galveston, Texas
- Islam and Merrell Texas Hurricanes NOAA Hurricane Conference. Washington, DC
- Origin, Distribution, and Timing of Texas hurricanes: 1851-2006, with Tanveerful Islam, William Seitz and Robert Harriss, Natural Hazards Review, November 2009
- The City of Galveston Community Recovery Committee: a Case Study of Citizen Involvement in Post Disaster Recovery Planning, with Jae-Young Ko, Poster at Estuaries and Coasts in a Changing World, Portland, Oregon
- 2010
- Galveston Futures: Developing a Disaster Resilient Community, with Tanveerful Islam and William Seitz, to appear in Journal of Geography and Regional Planning in Jan 2010
- The Ike Dike: A Coastal Barrier Protecting the Houston/Galveston Region from Storm Surge, to appear in Macro-engineering Seawater in/and Unique Environments. Arid Lowlands and Water Bodies Rehabilitation, Editors: Viorel Badescu and Richard B Cathcart, Publishing House: Springer-Verlag 2010
- 2011
- Merrell, W.J., Graham-Reynolds, L., Cardenas, A, Gunn, J.A., Hufton, A.J., The Ike Dike: A Coastal Barrier Protecting the Houston/Galveston Region from Hurricane Storm Surge, p. 691-716 in Macro-engineering Seawater in Unique Environments, Environmental Science and Engineering, DOI: 10-1007/978-3-642-14779-1_31 © Springer-Verlag Berlin Heidelberg 2011
- 2012
- The Ike Dike: A Coastal Barrier Protecting the Houston/Galveston Region from Storm Surge, in Macro-engineering Seawater in/and Unique Environments. Arid Lowlands and Water Bodies Rehabilitation, Editors: Viorel Badescu and Richard B

Cathcart, Publishing House: Springer-Verlag 2010.

The Ike Dike, in Proceedings of CJGMAT-2012~ Editors C. Vipulanandan and Shiva Sunder, August 5, 2012.

Protecting the Urbanized Areas of the Texas Coast from Hurricane Storm Surge: The Ike Dike Example, Proceedings of the SPEED Center Conference, Rice University.

2014

Brody, S. D., Highfield, W. E., Merrell, W. J., Lee, Y. (Forthcoming). Recovery versus Protection-Based Approaches to Flood Risk Reduction: Working towards a framework for more effective mitigation in the United States. In Shannon Van Zandt and Walter Peacock (Eds). Handbook of Planning for Disaster Resilience. New York: Routledge Press.

Merrell, W. J. The Ike Dike, in Proceedings of CIGMAT-2012, Editors C. Vipulanandan and Shiva Sunder, August 1, 2013.

Merrell, W. J. Protecting the Urbanized Areas of the Upper Texas Coast from Hurricane Storm Surge: The Ike Dike, Proceedings of the SPEED Center Conference, Rice University.

Leonard Waterworth and William Merrell The Surge Suppression Imperative: Amassing the Substantial Risks to the Galveston Bay Region, in Proceedings of CIGMAT-2013, Editors C. Vipulanandan and Shiva Sunder, August 1, 2014.

William Merrell, Leonard Waterworth and Robert Whalin The Coastal Barrier System: Providing Comprehensive Protection from Surge, in Proceedings of CIGMAT-2013, Editors C. Vipulanandan and Shiva Sunder, August 1, 2014.

Robert Whalin, Thomas Richardson and William Merrell Protecting from Surge Probabilities not Possibilities: Using Statistically Significant Hurricane Characteristics to Model Surge Probabilities, in Proceedings of CIGMAT-2013, Editors C. Vipulanandan and Shiva Sunder, August 1, 2014.

Jonkman S.N., Mooyaart L, van Ledden M, Stoeten K, de Vries P. Lendering K.T., van der Toorn A., Willems A., Merrell W.J. (2014) Reconnaissance level studies on a storm surge barrier for flood risk reduction in the Houston – Galveston Bay. In: Lynett P. (ed.) Proceedings of the 34th Int. Conference on Coastal Engineering (ICCE)

Publications Under Direction as President of The H. John Heinz III Center:

Evaluation of Erosion Hazards (April 2000)

Evaluation of Erosion Hazards. Summary (April 2000)

Evaluation of Erosion Hazards. Report Brief (April 2000)

Coastal Erosion: Evaluating the Risk, Stephen Dunn, Robert Friedman and Sarah Baish, *Environment* 42:7:36-45, 2000

Forging a New Tool for Ecosystem Reporting, Robin O'Malley and Kate Wing, *Environment* 42:3:20-31, 2000

Designing a Report on the State of the Nation's Ecosystems. Selected Measurements for Croplands, Forests, and Coasts & Oceans (November 1999)

The Hidden Costs of Coastal Hazards: Implications for Risk Assessment and Mitigation, Island Press, Washington, DC, 67pp. (1999)

Uncovering the Hidden Costs of Coastal Hazards, Sheila D. David, Sarah Baish and Betty Hearn Marrow, *Environment* 41:8:11-19 (1999)

Reauthorizing the Magnuson-Stevens Fishery Conservation and Management Act: A Handbook and Discussion Guide for Regional Fishery Management Councils, The H. John Heinz III Center for Science, Economics and the Environment, Washington, DC, 44pp (1999)

Annotated Bibliography of Selected Literature on U.S. Fishery Management The H. John Heinz III Center for Science, Economics and the Environment, Washington, DC, 44pp (May 1999, updated on an ongoing basis)

Rutherford H. Platt, *Did Public Regulations Matter? Rebuilding the North Carolina Coast after Hurricane Fran*, A Discussion Paper, The H. John Heinz III Center for Science, Economics and the Environment, Washington, DC. (1999)

Our Ocean Future: Themes and Issues Concerning the Nation's Stake in the Ocean, The H. John Heinz III Center for Science, Economics and the Environment, Washington, DC, 57pp. (1998)

Interim Design (July 1998)

Publications Under Direction as Chair of Ocean Studies Board:

Improving Interactions Between Coastal Science and Policy. Proceedings of The Gulf of Mexico Symposium. National Academy Press, Washington, DC, 1996, 346 pp.

Expanding the Uses of Naval Ocean Science and Technology. National Academy Press, Washington, DC, 1996, 69 pp.

Arctic Ocean Research and Supporting Facilities, National Needs and Goals. National Academy Press, Washington, DC, 1995, 83 pp.

Improving Interactions Between Coastal Science and Policy. Proceedings of The Gulf of Maine Symposium. National Academy Press, Washington, DC, 1995, 259 pp.

Science, Policy and the Coast: Improving Decisionmaking. National Academy Press, Washington, DC, 1995, 85 pp.

Understanding Marine Biodiversity. National Academy Press, Washington, DC, 1995, 114 pp.

A Review of the Accomplishments and Plans of the NOAA Coastal Ocean Program. National Academy Press, Washington, DC, 1994, 115 pp.

A Review of NOAA National Sea Grant College Program. National Academy Press, Washington, DC, 1994, 62 pp.

An Assessment of Atlantic Bluefin Tuna. National Academy Press, Washington, DC, 1994, 148 pp.

Improving the U.S. Marine Fisheries. National Academy Press, Washington, DC, 1994, 62 pp.

Low-Frequency Sound and Marine Mammals, Current Knowledge and Research Needs. National Academy Press, Washington, DC, 1994, 75 pp.

Molecular Biology in Marine Science: Scientific Questions, Technological Approaches, and Practical Implications. National Academy Press, Washington, DC, 1994, 76 pp.

Priorities for Coastal Ecosystem Science. National Academy Press, Washington, DC, 1994.

Proceedings of a Workshop on Biological Diversity in Marine Systems. National Academy Press, Washington, DC, 1994.

Review of U.S. Planning for the Global Ocean Observing System. National Academy Press, Washington, DC, 1994, 25 pp.

The Ocean's Role in Global Change. National Academy Press, Washington, DC, 1994, 85 pp.