

CURRICULUM VITA

Mark Edward Luther

(revised December 9, 2019)

**Education**

<u>Institution</u>	<u>Field of Study</u>	<u>Degree</u>	<u>Date</u>
University of North Carolina at Chapel Hill	Mathematics and Physics	A.B.	1976

Member of:

American Association for the Advancement of Science

American Geophysical Union

American Meteorological Society

The Oceanography Society

The Coastal and Estuarine Research Federation

Marine Technology Society

The Coastal Society

Alliance for Coastal Technologies, Founding Partner, 2001-2017; Board Member, 2002-2010, Chairman, 2006-2010.

International Seakeepers Society, Board of Directors, Member, 2018-present; Science Advisory Council, Chairman, 2010-present.

Tampa Bay Physical Oceanographic Real-Time System (GTBMAC-PORTS, Inc.) Director of Operations, 1995-present.

Tampa Bay Regional Planning Council Agency on Bay Management, Member, 1996-present.

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National Aeronautics and Space Administration Sea-viewing Wide Field-of-view Sensor (SeaWiFS) Science Team, Member, 1992-1997.

National Science Foundation Division of Ocean Sciences Review Panels, 1993, 1994, 1995, 1997, 1999.

World Climate Research Programme-International Oceanographic Commission Indian Ocean Climate Studies Panel, Member, 1989-1998.

World Ocean Circulation Experiment Indian Ocean Scientific Steering Committee, Member, 1993-1998

Managing Editor, *HydroWire, An On-Line Newsletter for the Aquatic Sciences*, 1996-2000 (sponsored by the American Geophysical Union, The Oceanography Society, the American Society for Limnology and Oceanography, and the Estuarine Research Federation)







19. Haines, M. A., M. E. Luther, and R.A. Fine, 1997. Model-validated parameterization for air-sea gas transfer in the north Indian Ocean. *Geophys. Res. Letters*, 24, 2545-2548.
20. Vincent, M., D. Burwell, M. Luther, and B. Galperin, 1998. Real-time data acquisition and modeling in Tampa Bay. in *Estuarine and Coastal Modeling*, M. Spaulding and A. Blumberg, eds., ASCE, Reston, VA, pp 427-440.
21. Luther, M. E., 1999. Interannual variability in the Somali Current, 1954–1976. *Nonlinear Analysis: Real World Applications*, 35, 59-83 (doi: 10.1016/S0362-546X(98)00098-4).
22. Haines, M. A., R.A. Fine, M. E. Luther, and Z. Ji, 1999. Particle trajectories in an Indian Ocean model and sensitivity to seasonal forcing. *J. Phys. Oceanogr.*, 29, 584-598.
23. Bartolacci, D. M., and M. E. Luther, 1999. Patterns of co-variability between physical and biological parameters in the Arabian Sea. *Deep-Sea Res.*, 46, 1933-1964.
24. Burwell, D., Vincent, M., Luther, M., Galperin, B., 2000. Modeling Residence Times: Eulerian vs Lagrangian. In: *Estuarics* (Ep 1.94( )Tf1933)Tf-)Tf.725 0 Td81964.0.2ngn 4.

37. Schmidt, N., M. E. Luther, and R. A. Johns, 2004. Climate variability and estuarine water resources: A case study from Tampa Bay, Florida. *Coastal Management Journal*, 32(2), 101-116, doi:10.1080/08920750490275895.
38. Mizak, C. A., S. W. Campbell, M. E. Luther, R. P. Carnahan, R. J. Murphy, and N. D. Poor, 2005. Below cloud ammonia scavenging in convective thunderstorms at a coastal research site in Tampa, FL, USA. *Atmospheric Environment*, 39, 1575-1584.
39. Katsaros, K. B., A. V. Soloviev, R. H. Weisberg, and M. E. Luther, 2005. Reduced horizontal sea surface temperature gradients under conditions of clear sky and weak winds. *Boundary-Layer Meteorology*, 116:175-185.
40. Henson, J. I., F. Muller-Karger, D. Wilson, S. L. Morey, G. A. Maul, M. Luther, and C. Kranenburg, 2006. Strategic geographic positioning of sea level gauges to aid in the early detection of tsunamis in the Intra-Americas Sea. *Science of Tsunami Hazards*, 25(3), 173-207.
41. Wilson, M., S. D. Meyers and M. E. Luther, 2006. Changes in the Circulation of Tampa Bay Due to Hurricane Frances as recorded by ADCP measurements and reproduced with a Numerical Ocean Model. *Estuaries and Coasts*, Vol 29, No 6A, 914-918.
42. Shi, J. Z., M. E. Luther, and S. Meyers, 2006. Modelling of wind wave-induced bottom processes during slack water periods in Tampa Bay, Florida. *International Journal for Numerical Methods in Fluids*, 52:1277-1292.
43. Mizak, C., S. Campbell, K. Sopkin, S. Gilbert, M. Luther, and N. Poor, 2007. Effect of shoreline meteorological measurements on NOAA buoy model predictions of air-sea gas transfer. *Atmospheric Environment*, 41, 4304-4309.
44. Sopkin K., C. Mizak, S. Gilbert, V. Subramanian, M. Luther, and N. Poor, 2007. Modeling Air/Sea Flux Parameters in a Coastal Area: A Comparative Study of Results from the TOGA COARE Model and the NOAA Buoy Model. *Atmospheric Environment*, doi:10.1016/j.atmosenv.2006.08.059.
45. Luther, M. E., C. Merz, J. Scudder, S. Baig, J. Pralgo, D. Thompson, S. Gill, and G. Hovis, 2007. Water level measurements for storm surge. Invited review paper in *J. Mar. Tech.*, 41(1), 35-43.
46. Meyers, S., M. Luther, M. Wilson, H. Havens, A. Linville, and K. Sopkin, 2007. A Numerical Simulation of Residual Circulation in Tampa Bay. Part I: Low-Frequency Temporal Variations. *Estuaries and Coasts*, 30(4), 679-697.
47. Luther, M. E., S. A. Gilbert, and M. Tamburri, 2008. Status of Sensors for Physical Oceanographic Measurements. Invited review paper in *J. Mar. Tech.* 34(1), 1-11, doi:10.1016/j.martech.2007.11.001



54.

71. Meyers, S. D. and M. E. Luther, 2020. Simulating the Impact of Sea Level Rise on Maritime Navigation within a Large, Channelized Estuary. *Maritime Policy & Management* (Invited), <https://doi.org/10.1080/03088839.2020.1723810>
72. Meyers, S. D, M.

- Technology Society Ocean Community Conference '98, Proceedings, Vol. II, 1061-1065, MTS, Washington, DC.
8. Shi, Z., S. Meyers, and M. E. Luther, 2002. Modeling of wind wave-induced bottom currents and fine sand transport in Tampa Bay, Florida. *Proceedings of the International Conference on Estuaries and Coasts*, November 9-11, 2003, Hangzhou, China; pp. 865-871.
  9. Tate, P., M. Begum, C. Mizak, N. Poor, B. Hartsell, E. Edgerton, M. Luther, V. Subramanian, S. Gilbert, J. Batten, C. Merchant, W. McClenny, K. Kronmiller, V. Bhethanabothla, C. King, 2003. A Comparison of Continuous and Integrated HNO<sub>3</sub> Ambient Air Concentrations and Atmospheric Deposition Rates. In Proceedings of the Air and Waste Management Association 96<sup>th</sup> Annual Conference.
  10. Luther, M., S. Meyers, S. Gilbert, V. Subramanian, L. Wetzell, J. Scudder, M. Vincent, and D. Burwell, 2005. An integrated observing and modeling system for Tampa Bay. In: Treat, S.F. (ed.), Proceedings, Tampa Bay Area Scientific Information Symposium, BSAIS4; October 27-30, 2003, St. Petersburg, FL; 295pp.

#### **Publications – Technical Reports**

1. Luther, M. E., 1980. Coastal-trapped and frontal-trapped waves in a continuously stratified western boundary current. M. S. Thesis, University of North Carolina at Chapel Hill, 77 pp.
2. Luther, M. E., and J. M. Bane, Jr., 1980. Coastal-trapped and frontal trapped waves in a continuously stratified western boundary current. Uniy (lic)1 (s)-1 (ec)1 (s)-1 (ec)1 (ec)1 .o (e)-1(illMC

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- benthic communities. Southwest Florida Water Management District Report 6-1-2000, 180 pp plus 5 appendices.
25. Luther, M. E., and S. D. Meyers, 2002. Simulation of altered fresh water flow through the Tampa Bypass Canal and impact

Published Abstracts

1. Luther, M. E., and J. M. Bane, Jr., 1979. Coastal-trapped waves in a continuously stratified western boundary current. *Trans. Amer. Geophys. Union*, 60, p. 858. Presented at the AGU Fall Meeting, San Francisco, CA, December, 1979.
2. Luther, M. E., J. M. Bane, Jr., and D. A. Brooks, 1980. Rotary spectra of Gulf Stream Meanders over the continental slope off Onslow Bay, North Carolina. *Trans. Amer. Geophys. Union*, 61, p. 261. Presented at the AGU Spring Meeting, Toronto, Canada, May 1980.
3. Luther, M. E., and J. M. Bane, Jr., 1982. Spatially unstable waves in the Gulf Stream over the Carolina continental slope. *Trans. Amer. Geophys. Union*, 63, p. 362. Presented at the AGU Spring Meeting, Philadelphia, PA, May 31-June 4, 1982.
4. Luther, M. E., and J. J. O'Brien, 1983. Seasonal response of the Indian Ocean to monsoon wind forcing. *Research Activities in Atmospheric and Oceanic Modelling*, G. J. Boer, ed., WCRP Report No. 5, pp. 8.5-9.
5. Luther, M. E., and J. J. O'Brien, 1983. A numerical model of the seasonal circulation in the Indian Ocean. *Trans. Amer. Geophys. Union*, 64, p. 247.
6. Luther, M. E., and J. J. O'Brien, 1983. Seasonal response of the Indian Ocean to monsoon wind forcing. *IUGG XVIII General Assembly, IAPSO Programme and Abstracts*, pp. 198-199, Hamburg, Germany, August 1983.
7. Luther, M. E., and J. J. O'Brien, 1983. The circulation in the Arabian Sea forced by observed winds. *Trans. Amer. Geophys. Union*, 64, p. 733. Presented at the AGU Fall Meeting, San Francisco, CA, December, 1983.
8. Luther, M. E., and J. J. O'Brien, 1984. Development of the currents in the northwest Indian Ocean during the summer and winter monsoons. *Trans. Amer. Geophys. Union*, 65, p. 945. Presented at the AGU Fall Meeting, San Francisco, CA, December, 1984.
9. Luther, M. E., and J. J. O'Brien, 1985. Response of the Somali Current system to observed monsoon wind forcing. *IAMAP/IAPSO Joint Assembly Abstracts*, p. 48.
10. Luther, M. E., 1985. Large-scale numerical modelling of the wind-driven Indian Ocean circulation. *Trans. Amer. Geophys. Union*, 66, p. 831. Presented at the AGU Fall Meeting, San Francisco, CA, December, 1985.
11. Luther, M. E., and J. J. O'Brien, 1986. Modelling of the mesoscale features in the northwest Indian Ocean. *Trans. Amer. Geophys. Union*, 67, 292. Presented at the AGU Spring Meeting, Baltimore, MD, May 19-22, 1986.
12. Luther, M. E., S. K. Dube and J. J. O'Brien, 1986. Interannual Variability of the Northwest Indian Ocean Circulation 1954-1976. *Trans. Amer. Geophys. Union*, 67, p. 1035. Presented at the AGU Fall Meeting, San Francisco, CA, Dec. 8-12, 1986.
13. Luther, M. E., and J. J. O'Brien, 1987. Modelling of the seasonal and interannual variability

16. Luther, M. E., and J. J. O'Brien, 1988. Interannual and seasonal variability in upwelling patterns in the Northwest Indian Ocean. Joint Oceanographic Assembly 1988 Abstracts, Acapulco, Mexico, August 23-31.
17. Luther, M. E., 1988. Island effects in the seasonal circulation of the Indian Ocean. *Trans. Amer. Geophys. Union*, 69, p. 1232. Presented at the AGU Fall Meeting, San Francisco, CA, December, 1988.
18. Luther, M. E., and J. J. O'Brien, 1989. Research in Indian Ocean circulation at the Florida State University. (In *Proceedings of the European Geophysical Society General Meeting*, 1989, 1-31.)

31. Leonard, L.A., M.E. Luther, A.C. Hine, D.J. Reed, and R.P. Stumpf, 1993. Processes controlling sediment deposition in two Gulf of Mexico marsh systems; west-central Florida and south-east Louisiana. *In: The Science & Management of Coastal Estuarine Systems, Estuarine Research Federation Annual Meeting 1993 Proceedings, Hilton Head, South Carolina.*
32. Luther, M. E., and Z. Ji, 1994. Near-real-time modelling of the Indian Ocean wind-driven circulation. *Trans. Amer. Geophys. Union*, 75, no 3(suppl), p. 148. Presented at the AGU Ocean Sciences Meeting, February 21-25, 1994, San Diego, CA.
33. Luther, M. E., and M. G. Valenti, 1994. Interannual Variability in the ..



44. Luther, M. E., M. A. Haines, and Z. Ji, 1996. Pathways of cross-equatorial fluxes in an Indian Ocean circulation model. *Trans. Amer. Geophys. Union*, 77, no 46(suppl), p. F392. Presented at the AGU 1996 Fall Meeting, Dec. 16, 1996, San Francisco, CA.
45. Ji, Z., M. E. Luther, and M. A. Haines, 1996. Cross-equatorial heat fluxes in an Indian Ocean circulation model. *Trans. Amer. Geophys. Union*, 77, no 46(suppl), p. F391. Presented at the AGU 1996 Fall Meeting, Dec. 16, 1996, San Francisco, CA.
46. Haines, M. A., M. E. Luther, and Z. Ji, 1996. Surface boundary conditions for CFC-11 in an Indian Ocean circulation model. *Trans. Amer. Geophys. Union*, 77, no 46(suppl), p. F392. Presented at the AGU 1996 Fall Meeting, Dec. 16, 1996, San Francisco, CA.
47. Luther, M. E., N. Schmidt, and D. Burwell, 1997. The Tampa Bay Physical Oceanographic Real-Time System (PORTS). *Trans. Amer. Geophys. Union*, 78, no 17(suppl), p. S120. Presented at the AGU 1997 Spring Meeting, May 30, 1997, Baltimore, MD.
48. Luther, M. E., N. Schmidt, and D. Burwell, 1997. The Tampa Bay Physical Oceanographic Real-Time System (PORTS). Presented at the Estuarine Research Federation 1997 Meeting, October 16, 1997, Providence, RI.
49. Schmidt, N., M. E. Luther, M. Vincent. B. Galperin, and D. Burwell, 1997. An Integrated End-to-End Marine Contaminant Management System for Tampa Bay. Presented at the Estuarine Research Federation 1997 Meeting, October 14, 1997, Providence, RI.

#### Presentations

1. Luther, M. E., and J. J. O'Brien, 1983. Modelling of the seasonal circulation in the Arabian Basin. Invited paper presented at the Mabahiss/John Murray International Symposium on Marine Science of the North-West Indian Ocean and Adjacent Waters, Alexandria, Egypt, 3-7 September, 1983.
2. Luther, M. E., 1991. Equatorial waves in the Indian Ocean in models and observations. Equatorial Theoretical Panel Meeting Abstracts, Univ. Rhode Island, July 1991.
3. Luther, M. E., 1991. Indian Ocean Modelling activities related to WOCE. WOCE/WHP Indian Ocean Expedition Planning Meeting, Univ. Miami, November 12-15, 1991.
4. Luther, M. E., 1992. Modelling the variability of upwelling in the Arabian Sea. Presented at the Bedford Institute of Oceanography, April 14, 1992, Dartmouth, Nova Scotia.
5. Luther, M. E., 1992. Dynamics of upwelling in the Arabian Sea. Presented at the Global Ecosystems Dynamics Experiment (GLOBEC) Arabian Sea Expedition Planning Meeting, June 16, 1992, Denver, CO.
6. Luther, M. E., 1992. Coupled Physical-Biological Models. Invited presentation at the Workshop on Variation in the Marine Environment and Ecosystem Around the Hawaiian Archipelago, East-West Center, University of Hawaii, Honolulu, Hawaii, December 3-4, 1992.
7. Luther, M. E., 1992. Dynamics of the Northern Indian Ocean, invited presentation at the Seventh Session of the SCOR-IOC Indian Ocean Climate Studies Panel, Bangalore, India, August 24-28, 1992.
8. Luther, M. E., 1992. Upwelling in the Arabian Sea, invited presentation at the Indian Ocean Marine Affairs Cooperation (IOMAC) International Scientific Workshop on Marine Scientific Cooperation in the Indian Ocean, Colombo, Sri Lanka, October 18-25, 1992.
9. Luther, M. E., 1992. Modelling the Circulation of the Indian Ocean. Invited presentation at the meeting of the WOCE Working Group on Numerical Modelling, Rutgers University, October 5-6, 1992.

10. Luther, M. E., Z. Ji, and K. Chen, 1993. Near real-time modelling of the Indian Ocean wind-driven circulation. Invited presentation at The Oceanography Society Meeting, Seattle, WA, April 12-16, 1993.
11. Luther, M. E., 1993. Coupled Physical-Biological Models of the Indian Ocean/Arabian Sea. Presented at the First SeaWiFS Science Team Meeting, Annapolis, MD, January 21, 1993.
12. Luther, M. E., 1993. Modelling the Circulation of the Indian Ocean. Invited presentation at the University of Hawaii, Honolulu, Hawaii, March 30, 1993.
13. Luther, M. E., 1993. Seasonal variability in the Indian Ocean and the Wae1 (eam)-1 (upl)-2 (e)-1 (d P)1 (h

- presentation at the Marine Technology Society Ocean Community Conference '98, Baltimore, MD, November 19, 1998.
28. Luther, M. E., 1999. The West Florida Coastal Ocean Monitoring and Prediction System (COMPS). presented at the 13<sup>th</sup> Annual Governor's Hurricane Conference, June 7-11, 1999, Tampa, Florida.
  29. Luther, M. E., D. Burwell, M. Haines, N. Schmidt, M. Vincent, R. Weisberg and H. Yang. The coastal ocean monitoring and prediction system for west Florida. presented at the International Union of Geodesy and Geophysics XXII General Assembly, Birmingham, UK, 19-30 July 1999.
  30. Luther, M. E., D. Burwell, M. Haines, N. Schmidt, M. Vincent, R. Weisberg and H. Yang. Real-Time Physical Oceanographic Monitoring in Tampa Bay and the West Florida Coastal Ocean, Estuarine Research Federation '99, September 25-30, 1999, New Orleans, LA.
  31. Vincent, M., D. Burwell, M. Luther, and B. Galperin, 1999. The Tampa Bay nowcast-forecast system. presented at the 6<sup>th</sup> International Conference on Estuarine and Coastal Modeling, New Orleans, LA, November 3-5, 1999, by M. Vincent.
  32. Burwell, D., M. Vincent, M. Luther, and B. Galperin, 1999. Modeling of estuarine residence



54. Luther, M. E., R. Weisberg, C. Merz, S. Meyers, V. Subramanian, S. Gilbert, L. Wetzell, R. Cole, J. Donovan, J. Scudder, M. Vincent, and D. Burwell, 2004. The Tampa Bay Physical Oceanographic Real-Time System (PORTS) and the Coastal Ocean Monitoring and Prediction System (COMPS). Presented at the NOAA-Gulf of Mexico Coastal Ocean Observing System Harmful Algal Bloom Workshop, St. Petersburg, FL, April 13, 2004.
55. Luther, M. E., 2004. Success stories from Ocean Observing Systems. Presented to the US House of Representatives Ocean Caucus, The Capitol, Washington, DC, Mar. 30, 2004.
56. Luther, M. E., 2004. Private sector involvement in the Southeast and Gulf of Mexico Coastal Ocean Observing Systems. Presented to the National Association of Maritime Organizations, New York, NY, July 30, 2004.
57. Luther, M. E., 2004. Applications of Tampa Bay PORTS data. Presented to Gen. Jack Kelly, Deputy Administrator of NOAA, and other NOAA administrators, Dept. of Commerce Building, Washington, DC, Aug. 4, 2004.
58. Luther, 2004. Integrated Coastal Ocean Model/Data Products for Tampa Bay, West Florida, and the Southeast US. Presented at the Global Ocean Data Assimilation Experiment Conference, St. Petersburg, FL, Nov. 1, 2004.
59. Seiter, J. K.; Gennaccaro, A. L.; Berg, T. L.; Ames, A.; Luther, M.; Huffman, D. E., 2004. Characterization of estuarine waters at the mouth of Tampa Bay for a novel desalination process. Abstracts of the General Meeting of the American Society for Microbiology, Vol. 104, 559 pp.
60. Luther, M. E., 2005. Successes from real-time ocean observing systems. Presented at the American Meteorological Society Conference, San Diego, CA, Jan. 10, 2005.
61. Luther, M. E., 2005. Integrated Coastal Ocean Model/Data Products for Tampa Bay, West Florida, and the Southeast US. Presented at the International Association for Science, Technology, and Society, Baltimore, MD, Feb. 11, 2005.
62. Luther, M. E., 2005. The US Integrated Ocean Observing System. Presented at the European Geosciences Union Conference, Vienna, Austria, Apr. 27, 2005.
63. Luther, M., S. Meyers, B. Galperin, S. Gilbert, V. Subramanian, J. Scudder, M. Vincent, R. Pribble, and T. Janicki, 2005. An Integrated Observing and Modeling System for Tampa Bay. Presented at the Oceans05 Conference, September 2005.
64. Meyers, S., M. Luther, B. Galperin, S. Gilbert, V. Subramanian, J. Scudder, M. Vincent, R. Pribble, and T. Janicki, 2005. An Integrated Observing and Modeling System for Tampa Bay. Presented at the Estuarine Research Federation 18<sup>th</sup> Biennial Conference, Norfolk, VA, October 2005.
65. Luther, M., and C. Heil, 2005. Sensor needs for Regional Coastal Ocean Observing Systems. Presented at the Estuarine Research Federation 18<sup>th</sup> Biennial Conference, Norfolk, VA, October 2005.
66. Holm, H., M. Luther, S. Meyers, J. Seiter, K. Sopkin, M. Wilson, A. Linville, V. Subramanian, and S. Gilbert, 2005. Lagrangian analysis of harmful algal blooms and human pathogens within the Tampa Bay estuary. Presented at the Estuarine Research Federation 18<sup>th</sup> Biennial Conference, Norfolk, VA, October 2005.
67. Sopkin, K., C. Mizak, S. Gilbert, V. Subramanian, M. Luther, and N. Poor, 2005.

- Bay, Florida. Presented at the Estuarine Research Federation 18<sup>th</sup> Biennial Conference, Norfolk, VA, October 2005.
69. Luther, M. E., 2006. The US Integrated Ocean Observing System and the State of Florida. Presented to the Florida Department of Environmental Protection, Tallahassee, FL, Apr. 7, 2006.
  70. Luther, M. E., S. Gilbert, and M. McIntyre, 2006. The Alliance for Coastal Technologies and the US Integrated Ocean Observing System. Presented at The Coastal Society Conference, St. Pete Beach, FL, May 15-17, 2006.
  71. Luther, M. E., 2006. The US Integrated Ocean Observing System and the State of Florida. Presented to the Florida Coastal Ocean Observing System Caucus, Melbourne, FL, June 19, 2006.
  72. Luther, M. E., 2006. The US Integrated Ocean Observing System and Public Health in the State of Florida. Invited Presentation at the Florida Environmental Health Association Conference, Sarasota, FL, July 13, 2006.
  73. Luther, M. E., 2006. Ocean observing and Maritime Security. Presented at the USF/USGS Brown Bag Seminar, St. Peter



99. Luther, M. E., 2013: "The Loop Current in the Southeastern Gulf of Mexico;" M. E. Luther; presentation to participants in the Regatta del Sol al Sol, St. Petersburg Yacht Club, April 25, 2013.
100. "An estuarine monitoring and prediction system for Tampa Bay, Florida;" M. E. Luther and S. M. Meyers; invited presentation at Our Global Estuaries National Workshop, Harbor Branch O



116. Wahl, T., Jain, S., Bender, J., Meyers, S., Luther, M., 2015. Increasing risk of compound flooding from storm surge and rainfall for major US cities, Fall Meeting, American Geophysical Union, San Francisco, CA, December 2015.
117. Changes in Residence Time due to Large-Scale Infrastructure in a Coastal Plain Estuary, 2015; Steven D. Meyers, Amanda J. Linville, and Mark E. Luther; Coastal and Estuarine Research Federation Biannual Conference, Portland, OR; Nov. 12, 2015.
118. Changes in tidal circulation in a microtidal estuary due to barrier island loss, 2015; Steven D. Meyers, Mark E. Luther, Marius Ulm, Arne Arns, Thomas Wahl, and Jurgen Jensen; Coastal and Estuarine Research Federation Biannual Conference, Portland, OR; Nov. 10, 2015.
119. Changes in Residence Time due to Large-Scale Infrastructure in a Coastal Plain Estuary, 2016; Steven D. Meyers, Amanda J. Linville, and Mark E. Luther; Ocean Sciences Meeting, New Orleans, LA; Feb. 22, 2016.
120. Observations of Hysteresis in the Annual Exchange Circulation of Tampa Bay, 2016; Steven D. Meyers, Monica Wilson and Mark E Luther; Ocean Sciences Meeting, New Orleans, LA; Feb. 22, 2016.
121. Scudder, J., and M. E. Luther, 2016. Water Quality, Water Level, and Meteorological Monitoring at the USF COMPS Clam Bayou Station: A Successful Collaborative Effort as Demonstrated by the Continuous Monitoring Record during the 2015 St. Petersburg Sewage Overflow Event. Oral presentation at the 10th National Water Quality Monitoring Conference, Tampa, Florida, May 2 - 6, 2016.
122. Luther, M. E., 2016. Secure, Sustainable and Resilient Port and Marina Operations and Infrastructure Presentation at the U.N. World Tourism Day Meeting - Joint USF / Cuba Initiative, Havana, Cuba, September 28, 2016.
123. M. Luther was invited to make a presentation at a public forum for the Gulfport City Council on April 27, 2016, describing the COMPS Clam Bayou site and measurements of the August 2015 release of 15,000,000 gallons of untreated or partially treated sewage uato



- Data. Presentation at the 2019 Coastal and Estuarine Research Federation Conference in Mobile, AL, Nov. 4, 2019.
142. Conrad, Katie, M. E. Luther, S. D. Meyers, Gary Raulerson, and Gianfranco Basili, 2019. Ship Wakes in Tampa Bay: A Potential Public-Private Partnership to Address Shoreline Erosion. Presentation at the 2019 Coastal and Estuarine Research Federation Conference in Mobile, AL, Nov. 4, 2019.

10. "Biophysical interactions in the surface layer of the equatorial Pacific Ocean," M. E. Luther, Principal Investigator. National Aeronautics and Space Administration; \$22,000; 9-1-94 to 8-31-95.
11. "The design of a modeling strategy for Florida Bay," Boris Galperin, Principal Investigator, M. E. Luther, M. A. Haines, and A. F. Blumberg, Co-Investigators. U.S. Dept. of the Interior/Everglades National Park; \$41,070; 8-30-94 to 8-29-95.
12. "A study to determine the use of satellite imagery in mapping the discolored water phenomena occurring in Florida Bay," M. E. Luther, Principal Investigator. Florida Department of Environmental Protection; \$15,000; February 15 to October 31, 1995.
13. "The Northeastern Gulf of Mexico Circulation Modeling Study," Y. Hsueh (FSU), Principal Investigator, R. Weisberg, USF Co-Principal Investigator, M. Luther, Co-Investigator; Minerals Management Service; \$753,156 total USF sub-contract; October 1, 1995 to March 31, 2000.
14. "Development of an Integrated End-to-End Marine Contaminant Management System," M. E. Luther, Principal Investigator, B. Galperin, E. VanVleet, N. Schmidt, M. Vincent, and C. Friel, Co-Investigators; Environmental Protection Agency; \$588,777; October 1, 1996 to March 31, 2000.
15. "Regional Assessments and Applications for Effects of Seasonal-to-Interannual Climate Variability," M. E. Luther, Principal Investigator; National Oceanic and Atmospheric Administration, through a subcontract with the Univ. of Miami; \$30,000; January 1, 1997 to December 31, 1997.
16. "Observations and Modeling of the West Florida Shelf Circulation," R. H. Weisberg, Principal Investigator, M. E. Luther, Co-Principal Investigator; Office of Naval Research; \$2,971,084; October 1, 1997 to July 31, 2003.
17. "A Real-Time Oceanographic Data System for Florida," P. R. Betzer, M. E. Luther, and R. H. Weisberg, Co-Principal Investigators; Florida Department of Environmental Protection; \$400,000; October 29, 1997 to September 30, 1998.
18. "Characterization of Changes in Salinity and Tidal Residual Circulation in Tampa Bay due to Desalination Concentrate Discharge," M. E. Luther, Principal Investigator; S & W Water, LLC; \$110,000; October 29, 1999 to December 31, 2000.
19. "A Real-Time Oceanographic Data System for Florida." Funded \$300,000 for 5.3 positions for Coastal Ocean Modeling and Prediction Systems (COMPS). P. R. Betzer, A. C. Hine, M. E. Luther, and R. H. Weisberg, Co-Principal Investigators. (Annually recurring E&G funds).
20. "I-4 Corridor funding for the Coastal Ocean Modeling and Prediction System (COMPS)." pFunded \$ 69,270. E. Luther, and R. H. Weisberg, Co-Principal Investigators. (Annually recurring funds).
21. "Real-time monitoring in Brooker Creek Preserve," M. Luther, Principal Investigator; Pinellas County; \$39,450; April 1, 2004 to 12/31/04. (one person-month)
22. "Salinity and Residence Time in MCK Bay," M. Luther, Principal Investigator; Southwest Florida Water Management District; \$120,000; 12/31/04. (one person-month)
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30, 2012; \$925,000



10. Marius Ulm, Univ. of Siegen, Germany, Sept-Nov 2014
11. Arne Arns, Univ. of Siegen, Germany, Sept-Oct 2014
12. Clarisse Mesclon, SeaTech/Institute of Engineering Sciences, Univ. of Toulon, Toulon, France; Summer Intern, 2014
13. Pauline Wech, SeaTech/Institute of Engineering Sciences, Univ. of Toulon, Toulon, France; Summer Intern, 2014
14. Alyssa Menz, Columbia Univ., Summer Intern, 2013
15. Marine Merlin, Institute of Engineering Sciences of Toulon and the Var, Toulon, France; Summer Intern, 2013
16. Thomas Wahl, Postdoctoral Associate, Univ. of Siegen, Germany, March 2013-March 2015
17. Stephanie Stefanski, Cousteau Divers Society, May 2012-August 2013
18. Audrey Michel, Institute of Engineering Sciences of Toulon and the Var, Toulon, France; Summer Intern, 2012
19. Willem Suez-Panama-Bouton, Institute of Engineering Sciences of Toulon and the Var, Toulon, France; Summer Intern, 2012
20. Pierre Bernard, Institute of Engineering Sciences of Toulon and the Var, Toulon, France; Summer Intern, 2012
21. Bernadette Jobbe-Duval, Institute of Engineering Sciences of Toulon and the Var, Toulon, France; Summer Intern, 2012
22. Nicolas Degrain, Institute of Engineering Sciences of Toulon and the Var, Toulon, France; Summer Intern, 2012
23. Rolf Riethmüller, Ph.D., Helmholtz-Zentrum Geesthacht Institute of Coastal Research, Germany, February-August 2011
24. Pierre Recoules, Institute of Engineering Sciences of Toulon and the Var, Toulon, France; Summer Intern, 2010
25. Pierre Rizzo, Institute of Engineering Sciences of Toulon and the Var, Toulon, France; Summer Intern, 2009
26. Eric J. Hochberg, Ph.D., Assistant Professor, AMC Praute(r)-2 (, )TjEMC r7lonr. Hoc



37. Yun C. Jung, Korean Maritime University, Fall 2001-Spring 2003

38. Esman (a.k.a. E.M.C.), Institute of Engineering Science and Technology, The Year (TT66 nO

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**Expert Witness Testimony**

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St. Johns