CURRICULUM VITA

Mark Edward Luther

(revised March 15, 2021)

Education

Institution			
	Mathematics and Physics	A.B.	1976
University of North Carolina at Chapel Hill	Physical Oceanography	M.S.	1980
University of North Carolina at Chapel Hill	Physical Oceanography	Ph.D.	1982

Professional Background

1990-Present Associate Professor, College of Marine Science, University of South Florida

1982-1990 Postdoctoral Fellow and Research Associate, Center for Ocean-Atmosphere Prediction Studies (formerly the Mesoscale Air-Sea Interaction Group), The Florida State University

North Carolina State Univ

The National Science Foundation
The National Oceanic and Atmospheric Administration
The National Aeronautics and Space Administration
The U.S. Department of State
The State of Louisiana Board of Regents

Students Supervised (Doctorate)

1. Monica C. Wilson, Ph.D., 2013
2. Heather H. Havens, Ph.D., 2009
3. Mark S. Vincent, Ph.D., 2002 (with Mark Ross)
4. Nancy J. Schmidt, Ph.D., 2001
5. David C. Burwell, Ph.D., 2001
6. Zaihua Ji, Ph. D., 1997
7. Lynn A. Leonard, Ph. D., 1994 (with A. C. Hine)
8. Tommy G. Jensen, Ph. D., 1989 (with James J. O'Brien)

Students Supervised (Masters)

1. Richard Knudsen, M.S., 2015
2. Mary Janine Vara, M.S., 2014
3. Kristen Sopkin, M. S., 2008
4. Amanda Linville, M. S., 2007
5. Monica C. Wilson, M. S., 2007
6. Haiying Zhang, M. S., 2000
7. Dawn Olson, M. S., 1998
8. Danielle M. Bartolacci, M. S., 1996
9. M. Grey Valenti, M. S., 1995
10.

3. Luther, M. E., J. J. O'Brien, and A. H. Meng, 1985. Morphology of the Somali Current System during the southwest monsoon. in *Coupled Ocean-Atmosphere Models*, J.C.J. Nihoul, ed., Elsevier, Amsterdam, 405-437.
4. Luther, M. E., 1986a. Advanced methods for steady problems - Direct elliptic solvers. *Advanced Physical Oceanographic Numerical Modelling*, Ch. 3b, James J. O'Brien, ed., D. Reidel, Dordrecht, Holland, 608 pp.
5. Luther, M. E., 1986b. Ocean modelling on supercomputers. *Advanced Physical Oceanographic Numerical Modelling*, Ch. 9c, James J. O'Brien, ed., D. Reidel, Dordrecht, Holland, 608 pp.
6. Simmons, R. C., M. E. Luther, J. J. O'Brien and D. M. Legler, 1988. Verification of a numerical ocean model of the Arabian Sea. *J. Geophys. Res.-Oceans*, *93*, 15 437-15 455.
7. Luther, M. E., and J. J. O'Brien, 1989. Modelling the variability in the Somali Current. in *Mesoscale/Synoptic Coherent Structures in Geophysical Turbulence*, J.C.J. Nihoul and B. M. Jamart, eds., Elsevier, Amsterdam, 373-386.
8. Woodberry, K. E., M. E. Luther, and J. J. O'Brien, 1989. The wind-driven seasonal circulsonal M

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-

71. Meyers, S. D. and M. E. Luther, 2020. Simulating the Impact of Sea Level Rise on Maritime

Multispectral Scanner data. In: Proceedings of the Fourth International Conference on Remote Sensing for Marine and Coastal Environments, Orlando, FL, 17-19 March, 1997.

7. Luther, M. E., D. Burwell, M. Haines, N. Schmidt, M. Vincent, R. Weisberg, and H. Yang, 1998. Real-time physical oceanographic monitoring in West Florida. In Marine 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_3 Ambient Air Concentrations and Atmospheric Deposition Rates. In Proceedings of the Air and Waste Management Association 96^{th} 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; October27-30, 2003, St. Petersburg, FL; 295pp.

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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.

III: Cumulative Effects. University of South Florida College of Marine Science, St. Petersburg, 388 pp.

24. Hammond, M. A., N. J. Blake, C. W. Dye, P. Hallock-Muller, M. E. Luther, D. A. Tomasko, and G. Vargo, 2000. Effects of disposal of seawater desalination discharges on nearshore 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 on salinity. A report to the Southwest Florida Water Management District, September 2002. University of South Florida College of Marine Science, St. Petersburg, 125 pp plus 7 appendices.
26. Luther, M. E., and S. D. Meyers, 2003. Simulation of discharge into Tampa Bay at selected locations. A report to the Florida Department of Environmental Protection, April 2003. University of South Florida College of Marine Science, St. Petersburg, 70 pp plus appendices and supplement.

<u>Publications – Other Non-Refereed</u>

1. Luther, M. E., and J. M. Bane, Jr., 1979. Coastal-trapped waves in a continuously stratified western boundary current. *Ocean Modelling*, *25*, pp. 6-8.
2. 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.
3. Luther, M. E., and J. J. O'Brien, 1984. Numerical modeling of the circulation in the Indian Ocean using observed winds. *Research Activities in Atmospheric and Oceanic Modelling*, G. J. Boer, ed., WCRP Report No. 7, pp. 8.4-6.
4. Luther, M. E., and J. J. O'Brien, 1986. Interannual variability in the Somali Current. *Research Activities in Atmospheric and Oceanic Modelling*, G. J. Boer, ed., WCRP Report No. 9 pp. 8.12-14.
5. Luther, M. E., and J. J. O'Brien, 1987. Indian Ocean Modelling at Florida State University. *Research Activities in Atmospheric and Oceanic Modelling*, G. J. Boer, ed., WCRP Report No. 8 pp. 8.31-32.
6.

11. Luther, M. E., S. D. Meyers, S. A. Gilbert, V. Subramanian, J. Scudder, H. Havens, M. Wilson, and M. McIntyre, 2008. A Coastal Ocean Prediction System for Tampa Bay, Florida. Journal of Ocean Technology, Vol. 3, No. 3, 25-32.

Publications – Abstracts and Presentations

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 of the Indian Ocean circulation. *IUGG XIX General Assembly, Union Abstracts*, p. 180. Vancouver, Canada, August 1987.

14. Simmons, R. C., M. E. Luther, J. J. O'Brien and D. M. Legler, 1987. Validation of the FSU Indian Ocean Model. *Trans. Amer. Geophys. Union, 68,* p. 1719.
15. Woodberry, K. E., M. E. Luther, and J. J. O'Brien, 1987. Modelling the seasonal circulation in the southern tropical Indian Ocean. *Trans. Amer. Geophys. Union, 68*, p. 1327. Presented at the AGU Fall Meeting, San Francisco, CA, December, 1987.
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 (Invited presentation at the European Geophysical Society General Assembly, March 1989). *Annales Geophysicae, 7* (Special Issue), p. 181.
19. Luther, M. E., J. J. O'Brien and W. L. Prell, 1989. A model of paleo-upwelling fields in the northwestern Indian Ocean: Comparison with sediment data. (Invited paper) *Trans. Amer. Geophys. Union, 70,* p. 368.
20. Luther, M. E., T. G. Jensen and J. J. O'Brien, 1989. Visualization of Somali Current variability in numerical models. *Trans. Amer. Geophys. Union, 70,* p. 1140. Presented at the AGU Fall Meeting, San Francisco, CA, December, 1989.
21. Luther, M. E., C. J. Pursley and J. J. O'Brien, 1990. Variability in sea surface height in the equatorial Indian Ocean from Geosat and model data. *Trans. Amer. Geophys. Union, 71,* p. 159. Presented at the AGU Ocean Sciences Meeting, Feb. 12-16, 1990.
22. Luther, M. E., 1990. Remote forcing of the Somali Current revisited - Was Lighthill right? (Invited paper) *Trans. Amer. Geophys. Union*, *71*, 1378. Presented at the AGU Fall Meeting, San Francisco, CA, Dec. 3-7, 1990.
23. Potemra, J. T., M. E. Luther, and J. J. O'Brien, 1990. The seasonal circulation of the upper ocean in the Bay of Bengal. *Trans. Amer. Geophys. Union*, *71*, 1381. Presented at the AGU Fall Meeting, San Francisco, CA, Dec. 3-7, 1990.
24. Luther, M. E., and T. G. Jensen, 1990. Modelling the variability in the wind-driven circulation in the Indian Ocean on intraseasonal to interannual time scales, International TOGA Scientific Conference, Abstracts, 16-20 July 1990, Honolulu, HI.
25. Luther, M. E., 1991. Seasonal and interannual variability in numerical models of the Indian Ocean circulation. IAPSO Proceedings No. 18, p. 96. Presented at the IUGG XX General Assembly, Vienna, Austria, August 11-24, 1991.
26. Luther, M. E., 1991. Seasonal and interannual variability in numerical models of the Somali Current. *Trans. Amer. Geophys. Union, 72* , no.51(suppl), 16. Presented at the AGU Ocean Sciences Meeting, New Orleans, LA, Lan 27-31, 1992.
27. Luther, M. E., 1992. Use of numerical models in support of the JGOFS Arabian Sea Process Study, *Trans. Amer. Geophys. Union, 73 (suppl),* no 25, p. 39. Presented at the AGU Western Pacific Geophysics Meeting, Hong Kong, Aug. 17-21, 1992.
28. Leonard, L. A., Hine, A. C., Luther, M. E., and Stumpf, R. P., 1993. Sediment transport processes in a west-central Florida open marine marsh tidal creek. *In*: Southeastern section of the Geological Society of America 1993 Abstracts with Programs, Tallahassee, Florida.
29. Leonard, Lynn A., Hine, Albert C., and Luther, Mark E., 1993. Suspended sediment transport and deposition in a *Juncus roemerianus* marsh, west-central Florida. *In*:

Proceedings of the IGU-CCE Conference on Sediment Dynamics, Deposition and Erosion in Temperate Salt Marshes, Cocodrie, Louisiana.

30. Leonard, L. A., Luther, M. E., Hine, A. C., and Reed, D. J., 1993. Free surface flow in marsh canopies. *In*

8. Luther, M. E., 1992. Upwelling in the Arabian Sea, invited presentation at the Indian Ocean

25. Luther, M. E., 1998. Seasonal to interannual variability in the heat budget of the Indian Ocean. Invited presentation at A Workshop on the Variability of the Asian-Australian Monsoon, July 29-31, 1998, St Michaels, MD.
26. Luther, M. E., 1998. Real-time physical oceanographic monitoring and modeling in West Florida. Invited lecture at Eckerd College, October 14, 1998.
27. Luther, M. E., D. Burwell, M. Haines, N. Schmidt, M. Vincent, R. Weisberg, and H. Yang, 1998. Real-time physical oceanographic monitoring in West Florida. Invited 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 13th 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 Geodessey 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 Physcial Oceangoraphic 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 6th International Conference on Estuarin6fe (e)4((T)1 (he)b)5 (on E)1 (s

39. Schmidt, N., and M. E. Luther, 2001. ENSO impacts on salinity in Tampa Bay, Florida. Presented at the 16th Biennial Conference of the Estuarine Research Federation, St. Pete Beach, FL, Nov. 7, 2001.
40. Luther, M. E., 2002. Impacts of fresh water diversions and concentrate discharge from a seawater desalination facility on water quality in Tampa Bay, Florida. Presented at the American Meteorological Society Third Symposium on Environmental Applications, Orlando, FL, Jan. 15, 2002.
41. Schmidt, N., and M. E. Luther, 2002. ENSO Impacts on Fresh Water Input and Salinity in Tampa Bay, Florida. Presented at the 2002 Ocean Sciences Meeting, Honolulu, HI, Feb. 14, 2002.
42. Luther, M. E., R. H. Weisberg, and A. Soloviev, 2002. Internal Tides on the Shelf off Southeast Florida. Presented at the 2002 Ocean Sciences Meeting, Honolulu, HI, Feb. 13, 2002.
43. Peebles, E. B., and M. E. Luther, 2002. Spawning and Habitat Responses of the Bay Anchovy *Anchoa mitchilli* to ENSO-related Variation in Inflows to Florida Estuaries. Presented at the 2002 Ocean Sciences Meeting, Honolulu, HI, se

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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 18th Biennial Conference, Norfolk, VA, October 2005.
67. Sopkin, K., C. Mizak, S. Gilbert, V. Subramanian, M. Luther, and N. Poor, 2005. Comparison of estimates of air-water fluxes for Tampa Bay, Florida. Presented at the Estuarine Research Federation 18th Biennial Conference, Norfolk, VA, October 2005.
68. Wilson, M., M. Luther, S. Meyers, H. Holm, A. Linville, S. Gilbert, and V. Subramanian, 2005. Effects of Extreme Events on Residual Circulation and Residence Time for Tampa

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126. Luther, M. E., 2017. Flushing and Water Quality in Tampa Bay. Invited presentation to the St. Petersburg City Council, Feb. 23, 2017, St. Petersburg, Florida.
127. Luther, M. E., 2017. Real-Time Observations of Environmental Parameters in Tampa Bay. Invited presentation at the Florida Association for Water Quality Control Annual Conference, June 14-16, 2017, Naples, Florida.
128. Luther, M. E., 2017. Tampa Bay Physical Oceanographic Real-Time System. Invited presentation to the Tampa Port Authority Board of Directors, Aug. 15, 2017, Tampa, Florida.
129. Luther, M. E., 2018. Ocean Observations in Support of Maritime Transportation Operations and Infrastructure. Presentation to the USF College of Marine Science, Aug. 24, 2018, St. Petersburg, FL.
130. Luther, M. E., S. D. Meyers, and J. S. Scudder, 2018. Real Time Observations of Oceanographic and Meteorological Parameters for Maritime Transportation: Origins and Novel Applications. Presentation at the IEEE/MTS Oceans18 Conference, Oct. 23, 2018, Charleston, SC.
131. Meyers, S. D., and M. E. Luther, 2018. Use of AIS Data to Quantify Wakes from Large Vessels and the Risk to the Shoreline Environment in Tampa Bay. Presentation at the IEEE/MTS Oceans18 Conference, Oct. 23, 2018, Charleston, SC.
132. Luther, M. E, 2018. Met-Ocean Observations in Support of Maritime Transportation. Invited presentation to the West Central Florida American Meteorological Society, Oct. 29, 2018, Tampa, FL.
133. Luther, M. E, 2018. Meteorological and Oceanographic Observations in Support of Maritime Transportation. Invited presentation to the Cruising Club of America, St. Petersburg Yacht Club, Nov. 8, 2018, St. Petersburg, FL.
134. Luther, M. E, 2019. Meteorological and Oceanographic Observations in Support of Maritime Transportation. Invited Guest Speaker for the 15th Annual Spoonbill Ocean Sciences Bowl, USF/CMS, Feb. 15, 2019, St. Petersburg, FL.
135. Luther, M. E., S. D. Meyers, and J. S. Scudder, 2019. Real Time Observations of Oceanographic and Meteorological Parameters for Maritime Transportation: Origins and Novel Applications. Presentation at the Univ. of North Carolina-Chapel Hill, Dept. of Marine Science Alumni Seminar Series, Feb. 6, 2019
136. Meyers, S. D., and M. E. Luther, 2019. Use of AIS Data to Quantify Wakes from Large Vessels and the Risk to the Shoreline Environment in Tampa Bay. Presentation to the Tampa Bay Regional Planning Council Agency on Bay Management, Mar. 14, 2019.
137. Meyers, S. D., and M. E. Luther, 2019. Use of AIS Data to Quantify Wakes from Large Vessels and the Risk to the Shoreline Environment in Tampa Bay. Presentation to the Tampa Bay Harbor Safety and Security Committee, Apr. 17, 2019.
138. Meyers, S. D., and M. E. Luther, 2019. Use of AIS Data to Quantify Wakes from Large Vessels and the Risk to the Shoreline Environment in Tampa Bay. Presentation to the Tampa Bay Estuary Program Management Board, May 10, 2019.

139. Meyers, S. D., and M. E. Luther, 2019. Use of AIS Data to Quantify Wakes from Large Vessels and the Risk to the Shoreline Environment in Tampa Bay. Presentation to the Tampa Bay Estuary Program Policy Board, May 17, 2019.
140. Meyers, S. D., and M. E. Luther, 2019. Potential Changes in Salinity Associated with Port Tampa Bay New Berth Construction in East Bay. Presentation to the Tampa Bay Regional Planning Council Agency on Bay Management, Sept. 12, 2019.
141. Meyers, S. D., M. E. Luther, Gary Raulerson, Ed Sherwood, Katie Conrad and Gianfranco Basili, 2019. Ship Wakes in Tampa Bay Estimated From AIS Ship Tracking 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.
143. Luther, M. E., and C. S. Mahi of10/ (of20.w o B3.805j[M)-1 (a)- ⁄MC

Grants and Contracts Awarded

1. "Mixed Layer Parameterizations in Models of the Indian Ocean Circulation," M. E. Luther, Principal Investigator. Institute for Naval Oceanography; $64,773; May 1, 1991 to March 31, 1992.
2. "Modelling of Tidal Propagation in Rivers Using Data Assimilation," M. E. Luther, Principal Investigator. Florida Department of Natural Resources; $10,000; May 1, 1991 to January 15, 1992.
3. "Mixed Layer Parameterizations in Models of the Indian Ocean Circulation," M. E. Luther, Principal Investigator. Office of Naval Research; $121,623; January 1, 1992 to December 31, 1993.
4. "Modelling Primary Production in the Arabian Sea," M. E. Luther, Principal Investigator. National Science Foundation; $259,569; December 15, 1992 to December 14, 1995.
5. "Incorporation of SeaWiFS Data into Coupled Physical/Biological Models of the Arabian Sea," M. E. Luther, Principal Investigator, John C. Brock, Co-Investigator. National Aeronautics and Space Administration; $550,438; April 1, 1993 to September 30, 1997.
6. "Upwelling and Mixed-Layer Dynamics in the Arabian Sea," M. E. Luther, Principal Investigator. Office of Naval Research; $601,525; January 1, 1994 to September 30, 1998.
7. "Modelling chemical tracer distribution in the Indian Ocean," M. E. Luther, Principal Investigator, R. A. Fine, Co-Investigator. National Science Foundation; $323,357; January 1, 1994 to June 30, 1997.
8. "Satellite Data Products for Florida Waters on CD-ROM," M. E. Luther, Principal Investigator. Florida Department of Environmental Protection; $30,700; June 9, 1993 to February 21, 1994.
9. "Support of research activities of a Marine Engineering Institute at the University of South Florida," M. E. Luther, Co-Principal Investigator (among many others); Office of Naval Research; $2,000,000 ($85,816 for Luther's portion); June 1, 1994 to May 31, 1996.
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 subcontract with the Univ. of Maryland; $1,458,924; May 1, 2002 to April 30, 2008.

30. "An autonomous genosensor for environmental water quality." J. Paul, PI; M. Luther, Co-PI

45. "Knauss Marine Fellowship – Heather Havens;" M. Luther, PI; Florida Sea Grant/NOAA; 2/1/10 – 1/31/11; $42,578.
46. "Implementation of Regional Integrated Ocean Observing Systems: Support of RCOOS

Coastal Resources Group, Inc., 2007-present (obtain water level, wave, and current measurements at multiple locations in Tampa Bay and Rookery Bay in support of seagrass and mangrove restoration)

SAIC, 2008-2009 (provided support for NOAA contract services in ocean observing systems)

Fugro-GEOS, 2008-present (provide support for water level and current measurements)

Ocean Energy Systems LLC, 2008 (provided analyses of wave motions and other oceanographic parameters for siting of wave power generation systems)

Moore and Company, PA, 2008-present (provided analyses of wind, wave, and tide conditions and vessel trajectories in maritime casualty cases: Blue Water Marine Towing v. *Natalita III*; 2008; United States District Court, Southern District of Florida, Case No. 08-20739 CIV; Sea Tow Key Biscayne v. Barge OSG 209 *in rem* and OSG 209 LLC; 2010; United States District Court, Southern District of Florida, "In Admiralty"; Case No. 09-CV-61410-CMA; Mark E. Luther, Ph.D., v. M/V Ouro do Brasil et al.; 2012; United States District Court, Middle District of Florida, "In Admiralty"; Case No. 8:09-CV-2267-T-35TGW)

St. Johns RiverKeepers, 2008 (provided expert testimony in Consumptive Use Permit hearing, ng of hea(a)-1 (r)-l.rl..005 Tw13 (m)-(.005 Tw13 (m)-(.T-35 [illegible]

Blue Water Marine Towing v. *Natalita III*; 2008; United States District Court, Southern District of Florida, Case No. 08-20739 CIV; Michael T. Moore, atty. ; deposition; case settled out of court.

St. Johns Riverkeeper, Inc., City of Jacksonville, and St. Johns County, v. St. Johns River Water Management District and Seminole County; 2008; Florida Div. of Administrative Hearings Case No. 08-1316; multiple depositions; testimony at hearing.

Sea Tow Key Biscayne v. Ba-1 (t)au<MCID 3 (>)Tionosl0Hpfe9 1 Tf0.002 Tc -0.001 Tw [;)-1 (d)1i89;