

BIOGRAPHICAL SKETCH OF MARK E. LUTHER

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

Professional Background: Research Assistant, Curriculum in Marine Sciences, University of North Carolina at Chapel Hill, 1976-1982; Postdoctoral Fellow and Research Associate, Center for Ocean-Atmosphere Prediction Studies (formerly Mesoscale Air-Sea Interaction Group), The Florida State University, 1982-1990; Associate Professor, College of Marine Science, University of South Florida, 1990-Present; President, Marine Science Associates, Inc., 1999-present

Member of: American Association for the Advancement of Science, American Geophysical Union, American Meteorological Society, The Oceanography Society, Coastal and Estuarine Research Federation, Marine Technology Society, The Coastal Society

Professional Service: Alliance for Coastal Technologies, Board Member, 2002-present, Chairman, 2006-present; Ocean Research and Resources Advisory Panel Ocean Observing Subpanel, Member, 2008-present; U.S. Global Ocean Observing System (GOOS) Steering Committee, Member, 2001-2003, Vice-Chair, 2003-2006, Chair, 2006-2007; Gulf of Mexico Coastal Ocean Observing System (GCOOS) Board of Directors, Member, 2005-2010; National Federation of Regional Associations for the Integrated Ocean Observing System (IOOS), Executive Committee Member, 2004-present; Marine Technology Society, Chairman, Florida Chapter, 2004-present; National Research Council U.S. National Committee for the International Union of Geodesy and Geophysics, Member, 1996-2004; US National Delegate to the International Association for the Physical Sciences of the Ocean, General Assembly, 1999, 2003; Estuarine Research Federation 2001 Conference Chairman, 1997-2001 World Climate Research Program Indian Ocean Climate Studies Panel, Member, 1989-1998; Managing Editor, *HydroWire, An On-Line Newsletter for the Aquatic Sciences*, 1996-2000; American Geophysical Union Ocean Sciences Section Secretary, 1994-1996; American Geophysical Union Ocean Sciences Section Executive Committee, Public Information Officer, 1996-2000; American Geophysical Union Regional Advisory Committee for United States and Canada, Member, 1991-1995; American Geophysical Union Information Technology Committee, Member, 1998-2000; World Ocean Circulation Experiment Indian Ocean Science Steering Committee, Member, 1993-1998; NASA SeaWiFS Science Team, Member, 1993-1998; Greater Tampa Bay Marine Advisory Council, Member, 1993-present; Tampa Bay Physical Oceanographic Real-Time System (GTBMAC-PORTS, Inc.) Chief Operating Officer, 1995-present; Tampa Bay Regional Council Agency on Bay Management, Member, 1996-present; Tampa Bay National Estuary Program Technical Advisory Committee, Member, 1991-present; Tampa Bay Harbor Safety and Security Committee Vessel Movement/Technical Subcommittee, Member, 1997-present

Recent Publications (past 5 years)

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.

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- 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.
- Wilson, M., S.D. Meyers and M. 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*, 29(6A), 914-918.
- 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.
- 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.
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- Luther, M. E., C. Merz, S. Baig, J. Pralgo, S. Gill, and G. Hovis, 2007. Water level measurements for storm surge. *J. Mar. Tech.*, 41(1), 35-43.
- Meyers, S., M. Luther, M. Wilson, H. Holm, 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.
- Luther, M. E., S. A. Gilbert, and M. Tamburri, 2008. Status of Sensors for Physical Oceanographic Measurements. *J. Mar. Tech.* 42(1), 84-92.
- Meyers, S. D., and M. E. Luther, 2008. A Numerical Simulation of Residual Circulation in Tampa Bay. Part II: Lagrangian residence time. *Estuaries and Coasts*, 31, 815-827.
- Wall, C. C., F. E. Muller-Karger, M. A. Roffer, C. Hu, W. Yao, and M. E. Luther, 2008. Satellite remote sensing of surface oceanic fronts in coastal waters off west-central Florida. *Remote Sensing of Environment*, 112(6), 2963-2976.
- Havens, H., M. E. Luther, S. D. Meyers, 2009. A coastal prediction system as an event response tool: Particle tracking simulation of an anhydrous ammonia spill in Tampa Bay. *Marine Pollution Bulletin*, 58, 1202-1209.
- Chen, Z., C. Hu, F. E. Muller-Karger, and M. E. Luther, 2010. Short-term variability of suspended sediment and phytoplankton in Tampa Bay, Florida. *Estuar. Coast. Shelf Sci.*, doi:10.1016/j.ecss.2010.05.014 (in press)
- Havens, H. H., M. E. Luther, S. A. Meyers, and C. Heil, 2010. Lagrangian analysis of a harmful algal bloom within the Tampa Bay estuary. *Marine Pollution Bulletin* (in press).