

Steven L. Morey
Curriculum Vitae

Present Position

Associate Research Scientist
Center for Ocean - Atmospheric Prediction Studies
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Previous Positions

Assistant Scholar/Scientist, Florida State University, 2002 - 2007
Research Associate, Florida State University, 2000 - 2002

Education

Florida State University, Ph.D., Oceanography, 1999
Florida State University, MS, Oceanography, 1997
University of Missouri – Columbia, BS, Mathematics, 1995
University of Missouri – Columbia, BS, Computer Science, 1995

Peer-Reviewed Publications

- Harris, R., C. Pollman, D. Hutchinson, W. Landing, D. Axelrad, **S. Morey**, D. Dukhovskoy, and K. Vijayaraghavan (2011), A screening model analysis of mercury sources, fate, and bioaccumulation in the Gulf of Mexico, *Environmental Research*, In Review.
- Harris, R., C. Pollman, W. Landing, D. Evans, D. Axelrad, D. Hutchinson, **S. Morey**, D. Rumbold, D. Dukhovskoy, D. Adams, K. Vijayaraghavan, C. Holmes, D. Atkinson, T. Myers, and E. Sunderland (2011), Mercury in the Gulf of Mexico: Sources to receptors, *Environmental Research*, In Review.
- Morey, S.L.**, and D.S. Dukhovskoy (2011), Characterization of salinity variability responding to different forcing regimes in the Apalachicola Bay estuary, *Hydrological Processes*, In Review.
- Yu, P., **S.L. Morey**, J. J. O'Brien, and J. Zavala-Hidalgo (2011), A mapping technique for satellite altimeter data based on propagating empirical orthogonal function analysis, *IEEE Transactions on Geoscience and Remote Sensing*, In Review.
- Gouillon, F., **S.L. Morey**, D.S. Dukhovskoy, and J. J. O'Brien (2010), Forced tidal response in the Gulf of Mexico, *J. Geophys. Res.*, doi:10.1029/2010JC006122.
- Dukhovskoy, D.S., and **S.L. Morey** (2010), Simulation of the Hurricane Dennis storm surge and considerations for vertical resolution, *J. Natural Hazards*, doi:10.1007/s11069-010-9684-5.
- Morey, S.L.**, D.S. Dukhovskoy, and M.A. Bourassa (2009), Connectivity between variability of the Apalachicola River flow and the biophysical oceanic properties of the northern West Florida Shelf, *Cont. Shelf. Res.*, doi:10.1016/j.csr.2009.02.003.
- Dukhovskoy, D.S., **S.L. Morey**, J.J. O'Brien, P.J. Martin, and C. Cooper (2009), Application of a vanishing quasi-sigma vertical coordinate for simulation of high-speed deep currents over the Sigsbee Escarpment in the Gulf of Mexico, *Ocean Modelling*, doi:10.1016/j.ocemod.2009.02.009.
- Yu, P., **S.L. Morey**, and J.J. O'Brien (2009), A reduced-space adjoint variational data assimilation method for three-dimensional ocean models, *Ocean Modelling*, doi:10.1016/j.ocemod.2009.01.006.
- Dukhovskoy, D. S., **S. L. Morey**, and J. J. O'Brien (2008), Dynamic response of a baroclinic ocean to a tropical cyclone impacting a continental shelf, *Continental Shelf Res.*, doi:10.1016/j.csr.2008.01.007.
- Kennedy, A.J., M.L. Griffin, **S.L. Morey**, S.R. Smith, and J.J. O'Brien (2007), Effects of El Niño-Southern Oscillation on sea-level anomalies along the Gulf of Mexico coast, *J. Geophys. Res.*, doi:10.1029/2006JC003904.

- Morey, S.L.**, S. Baig, M.A. Bourassa, D.S. Dukhovskoy, and J.J. O'Brien (2006), Remote forcing contribution to storm-induced sea level rise during Hurricane Dennis, *Geophys. Res. Lett.* 33, doi: 10.1029/2006GL027021.
- Morey, S. L.**, M. A. Bourassa, D. S. Dukhovskoy, and J. J. O'Brien (2006), Modeling studies of the upper ocean response to a tropical cyclone, *Ocean Dynamics*, doi:10.1007/s10236-006-0085-y.
- 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 early detection of tsunamis in the Intra-Americas Sea, *Science of Tsunami Hazards*, 25(3), 173-207.
- Dukhovskoy, D. S., **S. L. Morey**, and J. J. O'Brien (2006), Influence of multi-step topography on barotropic waves and consequences for numerical modeling, *Ocean Modelling*, 14, doi:10.1016/j.ocemod.2006.03.002.
- Zavala-Hidalgo, J., B. Martinez-Lopez, A. Gallegos-Garcia, **S. L. Morey**, and J. J. O'Brien (2006), Seasonal upwelling on the western and southern shelves of the Gulf of Mexico, *Ocean Dynamics*, doi: 10.1007/s10236-006-0072-3.
- Zavala-Hidalgo, J., **S.L. Morey**, J.J. O'Brien, and L. Zamudio (2006), On the Loop Current eddy shedding variability, *Atmosfera*, 19(1), 41-48.
- Zamudio, L., H. E. Hurlburt, E. J. Metzger, **S. L. Morey**, J. J. O'Brien, C. E. Tilburg, and J. Zavala-Hidalgo (2006), Interannual variability of Tehuantepec eddies, *J. Geophys. Res.*, 111, C05001, doi:10.1029/2005JC003182.
- Morey, S. L.**, J. Zavala-Hidalgo, and J. J. O'Brien (2005), The seasonal variability of continental shelf circulation in the northern and western Gulf of Mexico from a high-resolution numerical model, in *Circulation of the Gulf of Mexico: Observations and Models*, *Geophys. Monogr. Ser.* 161, edited by W. Sturges and A. Lugo-Fernandez, AGU, Washington, D. C., doi:10.1029/161GM16.
- Morey, S. L.**, M. A. Bourassa, X. J. Davis, J. J. O'Brien, and J. Zavala-Hidalgo (2005), Remotely sensed winds for episodic forcing of ocean models, *J. Geophys. Res.*, 110(C10), C10024, doi: 10.1029/2004JC002338.
- Morey, S. L.**, P. J. Martin, J. J. O'Brien, A. A. Wallcraft, and J. Zavala-Hidalgo (2003), Export pathways for river discharged fresh water in the northern Gulf of Mexico, *J. Geophys. Res.*, 108(C10), 3303, doi: 10.1029/2002JC001674.
- Morey, S. L.**, W. W. Schroeder, J. J. O'Brien, and J. Zavala-Hidalgo (2003), The annual cycle of riverine influence in the eastern Gulf of Mexico basin, *Geophys. Res. Lett.*, 30(16), 1867, doi: 10.1029/2003GL017348.
- Zavala-Hidalgo, J., **S. L. Morey**, and J. J. O'Brien (2003), Cyclonic eddies northeast of the Campeche Bank from altimetry data, *J. Phys. Ocean.*, 33, 623-629.
- Mizoguchi, K., **S. L. Morey**, J. Zavala-Hidalgo, N. Sugimoto, S. Häkkinen, and J. J. O'Brien (2003), Decadal variability of the convective activity in the Labrador Sea: Contribution of the Preconditioning, *J. Geophys. Res.*, 108(C10), 3330, doi: 10.1029/2002JC001735.
- Zavala-Hidalgo, J., **S. L. Morey**, and J. J. O'Brien (2003), Seasonal circulation on the western shelf of the Gulf of Mexico using a high-resolution numerical model, *J. Geophys. Res.*, 108(C12), 3389, doi:10.1029/2003JC001879.
- Morey, S. L.**, and J. J. O'Brien (2002), The spring transition from horizontal to vertical thermal stratification on a mid-latitude continental shelf, *J. Geophys. Res.*, 107(C8), 3097, doi: 10.1029/2001JC000826.
- Leonardi, A. P., **S. L. Morey**, and J. J. O'Brien (2002), Interannual variability in the eastern subtropical North Pacific Ocean, *J. Phys. Ocean.*, 32, 1824-1837.
- Murray, C. P., **S. L. Morey**, and J. J. O'Brien (2001), Interannual variability of upper ocean vorticity balances in the Gulf of Alaska, *J. Geophys. Res.*, 106, 4479-4493.
- Morey, S. L.**, J. F. Shriver, and J. J. O'Brien (1999), The effects of Halmahera on the Indonesian Throughflow, *J. Geophys. Res.*, 104, 23,281-296.

Reports and Other Publications

- Morey, S.L.**, D.S. Dukhovskoy, and C. Cooper (2010), Measurements and modeling of topographically trapped waves along the Sigsbee Escarpment, 2010 Offshore Technology Conference.
- Morey, S.L.** (2008), The physical oceanographic environment impacting northern Gulf of Mexico deepwater coral communities, in *Proceedings: Twenty-Fourth Gulf of Mexico Information Transfer Meeting*, U.S. Dept. of the Interior, Minerals Management Service, Gulf of Mexico OCS Region, New Orleans, LA, OCS Study MMS 2008-012, 158-162.
- Morey, S.L.**, M.A. Bourassa, D.S. Dukhovskoy, and J.J. O'Brien (2006), Modeling the impacts of remote forcing on hurricane storm surge, in *Research Activities in Atmospheric and Ocean Modeling*, World Meteorological Organization.
- Dukhovskoy, D.S., **S.L. Morey**, and J.J. O'Brien (2006), Baroclinic topographic waves on the Nicaragua Shelf generated by tropical cyclones, in *Research Activities in Atmospheric and Ocean Modeling*, World Meteorological Organization.
- Gouillon, F., D.S. Dukhovskoy, **S.L. Morey**, and J.J. O'Brien (2006), Modeling tides in a semi-enclosed basin: A case study of the Gulf of Mexico, in *Research Activities in Atmospheric and Ocean Modeling*, World Meteorological Organization.
- Yu, P., **S.L. Morey**, and J.J. O'Brien (2006), Development of new techniques for assimilating satellite altimetry data into ocean models, in *Research Activities in Atmospheric and Ocean Modeling*, World Meteorological Organization.
- Dukhovskoy, D. S., **S.L. Morey**, and J.J. O'Brien (2005), Topographic Rossby waves in a z-level ocean model, in *Research Activities in Atmospheric and Ocean Modeling*, Report No. 35, Edited by J. Cote, pp. 03.05-03.06, World Meteorological Organization, Geneva, Switzerland.
- Morey, S. L.**, M. A. Bourassa, D. Dukhovskoy, and J.J. O'Brien (2005), Modeling the oceanic response to air-sea fluxes associated with a tropical storm, in *Research Activities in Atmospheric and Ocean Modeling*, Report No. 35, Edited by J. Cote, pp. 08.03-08.04, World Meteorological Organization, Geneva, Switzerland.
- Yu, P., **S. L. Morey**, and J. Zavala-Hidalgo (2004), New mapping method to observe propagating features, *Sea Technology*, 45(5), 20-24.
- Morey, S. L.**, and J.J. O'Brien (2004), Vertical resolution impacts on modeled Gulf of Mexico Loop Current Eddies, in *Research Activities in Atmospheric and Ocean Modeling*, Report No. 34, Edited by J. Cote, pp. 03.17-03.18, World Meteorological Organization, Geneva, Switzerland.
- Kvaleberg, E., **S.L. Morey**, and J.J. O'Brien (2004), The influence of Coriolis on instability wavelengths, in *Research Activities in Atmospheric and Ocean Modeling*, Report No. 34, Edited by J. Cote, pp. 08.11-08.12, World Meteorological Organization, Geneva, Switzerland.
- Yu, P., **S.L. Morey**, and J.J. O'Brien (2004), Development of a reduced space adjoint data assimilation technique for numerical simulation of oceanic circulation, in *Research Activities in Atmospheric and Ocean Modeling*, Report No. 34, Edited by J. Cote, pp. 08.21-08.22, World Meteorological Organization, Geneva, Switzerland.
- Zavala-Hidalgo, P. Yu, **S. L. Morey**, M. A. Bourassa, and J. J. O'Brien (2003), A new interpolation method for high frequency forcing fields, in *Research Activities in Atmospheric and Ocean Modeling*, Report No. 33, Edited by J. Cote, pp. 03.21-03.22, World Meteorological Organization, Geneva, Switzerland.
- Kvaleberg, E., **S. L. Morey**, and J. J. O'Brien (2003), Modeling frontal instabilities in the Gulf of Mexico, in *Research Activities in Atmospheric and Ocean Modeling*, Report No. 33, Edited by J. Cote, pp. 08.08-08.09, World Meteorological Organization, Geneva, Switzerland.
- Morey, S.L.**, M. A. Bourassa, X. Jia, J. J. O'Brien, and J. Zavala-Hidalgo (2002), Impacts of satellite scatterometer – derived wind forcing on the West Florida Shelf ocean circulation, in *Research Activities in Atmospheric and Ocean Modeling*, Report No. 32, Edited by H. Ritchie, pp. 08.18-08.19, World Meteorological Organization, Geneva, Switzerland.
- Zavala-Hidalgo, J., **S. L. Morey**, and J. J. O'Brien (2002), A numerical study of the circulation on the western shelf of the Gulf of Mexico, in *Research Activities in Atmospheric and Ocean Modeling*,

Report No. 32, Edited by H. Ritchie, pp. 08.31-08.32, World Meteorological Organization, Geneva, Switzerland.

Morey, S.L., J. Zavala-Hidalgo, and J. J. O'Brien (2001), High-resolution ocean modeling of the Gulf of Mexico, in *Research Activities in Atmospheric and Ocean Modeling*, Report No. 31, World Meteorological Organization, Geneva, Switzerland.

Morey, S.L., and J. J. O'Brien (2000), An application of the Sigma Z-Level Model to the West Florida Shelf spring transition, in *Research Activities in Atmospheric and Ocean Modeling*, Report No. 30, World Meteorological Organization, Geneva, Switzerland.

Presentations and Conference Proceedings

Morey, S.L., and D.S. Dukhovskoy (2010), Influence of variations in river flow on the Apalachicola Bay estuary and offshore marine environment, Florida Climate Institute Kickoff Meeting, Tallahassee, FL.

Morey, S.L., A.C. Todd, D.S. Dukhovskoy, and M. A. Bourassa (2010), Variability of wind-driven transport in the Florida Big Bend region, 2010 ROMS/TOMS Workshop, Honolulu, HI.

Morey, S.L., M.A. Bourassa, and A.C. Todd (2010), Interannual variability of synoptic scale winds over the northern west Florida shelf from SeaWinds and ASCAT, 2010 International Ocean Vector Winds Meeting, Barcelona, Spain.

Morey, S.L., and D.S. Dukhovskoy (2010), Ocean impacts of interannual variability in the Apalachicola River Discharge, SECOM 2010, Tallahassee, FL.

Morey, S.L., A.J. Kennedy, S.R. Smith, M.L. Griffin, and J.J. O'Brien (2010), Interannual variability of extreme sea level anomalies along the U.S. Gulf of Mexico coastline, Sea Level Rise 2010 Conference, Corpus Christi, TX.

Morey, S.L., and D.S. Dukhovskoy (2010), Modeling the dynamics of energetic deep currents along the Sigsbee Escarpment, *Eos Trans. AGU*, 91(26), Ocean Sci. Meet. Suppl., Abstract PO45E-05.

Chassignet, E., **S.L. Morey**, D.S. Dukhovskoy, and M.A. Bourassa (2010), Use of a coastal ocean-atmospheric modeling and observing system to examine the variability of transport across the northern west Florida shelf, *Eos Trans. AGU*, 91(26), Ocean Sci. Meet. Suppl., Abstract PO21E-08.

Dukhovskoy, D.S., and **S.L. Morey** (2010), On the uncertainty of storm surge prediction: Lessons learned from nested simulation of a storm surge in the northeastern Gulf of Mexico, *Eos Trans. AGU*, 91(26), Ocean Sci. Meet. Suppl., Abstract PO35A-10.

Todd, A.C., **S.L. Morey**, and E. Chassignet (2010), Understanding circulation dynamics and larval transport mechanisms in the Florida Big Bend region using a high-resolution coastal ocean model, *Eos Trans. AGU*, 91(26), Ocean Sci. Meet. Suppl., Abstract PO35A-09.

Harris, R., C. Pollman, W. Landing, **S.L. Morey**, D. Dukhovskoy, and D. Axelrad (2010), Development of a dynamic mercury cycling model for the Gulf of Mexico, 2010 Goldschmidt Conference, Knoxville, TN.

Morey, S.L. (2009), Apalachicola river variability and impacts on the offshore marine environment, Invited Seminar, Center for Water and Air Quality, Florida A&M University.

Morey, S.L., D. Dukhovskoy, A. Todd, and M. Bourassa (2009), Applications and future requirements of satellite vector winds for coastal and shelf studies, Invited Talk, 2009 Scatterometry and Climate Meeting, Arlington, VA.

Morey, S.L., A. Todd, D. Dukhovskoy, and M. Bourassa (2009), Interannual variability of synoptic scale wind forcing over the West Florida Shelf, Gordon Research Conference on Coastal Oceanography, New London, NH.

Morey, S.L., M.A. Bourassa, and D.S. Dukhovskoy (2009), Role of nearshore winds in connecting variability of river discharge with offshore bio-optical properties, 16th Conference on Air-Sea Interaction, American Meteorological Society, Phoenix, AZ.

Morey, S.L., D.S. Dukhovskoy, D. Van Dyke, A.C. Todd, and E.P. Chassignet (2008), High-resolution ocean and atmospheric modeling of the Florida Big Bend region, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract OS52B-03.

- Gouillon, F., **S.L. Morey**, D.S. Dukhovskoy, and J.J. O'Brien (2008), Forced tidal response in the Gulf of Mexico, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract OS21B-1171.
- Dukhovskoy, D.S., and **S.L. Morey** (2008), Simulation and validation of a storm surge in bays and estuaries with complex coastline geometry, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract OS13D-1232.
- Morey, S.L.**, and D.S. Dukhovskoy (2008), Connectivity between variability of the Apalachicola River flow and the biophysical oceanic properties of the northern west Florida shelf, 2008 Ocean Sciences Meeting, Orlando, FL.
- Dukhovskoy, D.S., and **S.L. Morey** (2008), Generation of baroclinic topographic waves by a tropical cyclone impacting a low-latitude continental shelf, 2008 Ocean Sciences Meeting, Orlando, FL.
- Morey, S.L.**, and D.S. Dukhovskoy (2007), Modeling the impact of variability in the Apalachicola River discharge on the northeastern Gulf of Mexico, Gordon Research Conference on Coastal Ocean Modeling, New London, NH.
- Morey, S.L.**, C.Cooper, D.S. Dukhovskoy, and J.J. O'Brien (2007), Modeling intense near-bottom currents along the Sigsbee Escarpment, *Eos Trans. AGU*, 88(23), Jt. Assem. Suppl., Abstract OS53B-04.
- Morey, S.L.**, and D.S. Dukhovskoy (2007), Variability of Apalachicola River discharge and impacts on the regional oceanography, The Seventh Workshop on Decadal Climate Variability, Waikoloa, Hawaii.
- Dukhovskoy, D.S., M.A. Bourassa, **S.L. Morey**, and J.J. O'Brien (2007), Modeling studies of the ocean response to a tropical cyclone, The Seventh Workshop on Decadal Climate Variability, Waikoloa, Hawaii.
- Morey, S.L.** (2007), The physical oceanographic environment impacting northern Gulf of Mexico deepwater coral communities, 24th Annual Gulf of Mexico Information Transfer Meeting, Minerals Management Service, Kenner, Louisiana.
- Morey, S.L.**, D.S. Dukhovskoy, and J.J. O'Brien (2006), Contribution of a remote forcing mechanism to hurricane storm surge, 13th International Biennial Conference on Physics of Estuaries and Coastal Seas, Astoria, Oregon.
- Dukhovskoy, D.S., **S.L. Morey, S.L.**, and J.J. O'Brien (2006), Modeling topographically trapped waves in the shelf seas, 13th International Biennial Conference on Physics of Estuaries and Coastal Seas, Astoria, Oregon.
- Morey, S.L.** (2007), Seasonal distributions of riverine water in the Gulf of Mexico and impacts on chlorophyll variability, Invited Seminar, Dept. of Marine Science, University of South Carolina.
- Morey, S.L.**, M.A. Bourassa, D.S. Dukhovskoy, and J.J. O'Brien (2006), Modeling the ocean response to air-sea fluxes during tropical cyclones, Caribbean Climate Symposium, Mayaguez, Puerto Rico.
- Dukhovskoy, D.S., **S.L. Morey**, and J.J. O'Brien (2006), The long-wave response of low-latitude shelves to tropical cyclones, Caribbean Climate Symposium, Mayaguez, Puerto Rico.
- Morey, S.L.**, M.A. Bourassa, D.S. Dukhovskoy, and J.J. O'Brien (2006), Numerical simulations of the upper ocean response to tropical cyclones, *Eos Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., Abstract OS15E-05.
- Weissman, D.E., **S.L. Morey**, M.A. Bourassa, and D.S. Dukhovskoy (2006), Estimation of storm surge during Hurricane Dennis using QuikSCAT derived winds, with rain correction, *Eos Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., Abstract OS11A-02.
- Dukhovskoy, D.S., **S.L. Morey**, and J.J. O'Brien (2006), Topographic waves on a continental shelf with a multi-step topography, *Eos Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., Abstract OS16J-04.
- Morey, S.L.**, M.A. Bourassa, D.S. Dukhovskoy, and J.J. O'Brien (2006), Satellite scatterometer-derived air-sea fluxes for numerical modeling of the upper ocean response to tropical cyclones, 14th Conference on Interaction of the Sea and Atmosphere, American Meteorology Society, Atlanta, GA.
- Dukhovskoy, D.S., **S.L. Morey**, M.A. Bourassa, and J.J. O'Brien (2006), Contribution of wind-forced coastally trapped waves to coastal sea level rise during a hurricane, 14th Conference on Interaction of the Sea and Atmosphere, American Meteorology Society, Atlanta, GA.

- Bourassa, M.A., **S.L. Morey**, S.R. Smith, and J.J. O'Brien (2005), Objectively gridded fields based on in-situ, satellite, and hybrid satellite/NWP data, Abstracts from NOAA Office of Climate Observation 3rd Annual System Review, Silver Spring, MD.
- Morey, S. L.**, J. J. O'Brien, and J. Zavala-Hidalgo (2005), Redistribution of riverine water along the continental shelves of the northern and western Gulf of Mexico, *Eos Trans. AGU*, 86(18), Jt. Assem. Suppl., Abstract OS22A-06.
- Dukhovskoy, D.S., **S.L. Morey**, and J.J. O'Brien (2005), Topographic Rossby waves in a z-level ocean model, *Eos Trans. AGU*, 86(18), Jt. Assem. Suppl., Abstract OS11A-01.
- Morey, S. L.**, M. A. Bourassa, D. Dukhovskoy, J. J. O'Brien, and J. Zavala-Hidalgo (2004), Modeling the ocean response to air-sea fluxes during energetic episodic atmospheric events, 12th International Biennial Conference on Physics of Estuaries and Coastal Seas, Merida, Mexico.
- Morey, S. L.**, J. Zavala-Hidalgo, and J. J. O'Brien (2003), Mesoscale eddy sensitivity to vertical resolution in a numerical model, *Eos. Trans. AGU*, 84(52), 2004 Ocean Sciences Meeting Supplement, Abstract OS22C-03, Portland, OR.
- Morey, S. L.**, J. J. O'Brien, and J. Zavala-Hidalgo (2003), Impacts of vertical resolution on a numerical model of the Gulf of Mexico, MTS/IEEE Oceans 2003, San Diego, CA.
- Zavala-Hidalgo, J., M. A. Bourassa, **S. L. Morey**, J. J. O'Brien, and P. Yu (2003), A new temporal interpolation method for high-frequency vector wind fields, MTS/IEEE Oceans 2003, San Diego, CA.
- Morey, S. L.**, J. J. O'Brien, and J. Zavala-Hidalgo (2003), Continental slope effects on Gulf of Mexico Loop Current Eddies, *Oceanography*, 16(2), p. 52, The Oceanography Society 2003 Meeting, New Orleans, LA.
- Morey, S. L.**, J. J. O'Brien, W. W. Schroeder, and J. Zavala-Hidalgo (2003), Fresh water export and riverine influences in the northern Gulf of Mexico, 2003 EGS-AGU-EGU Joint Assembly, Nice, France.
- Zavala-Hidalgo, J., **S. L. Morey**, J. J. O'Brien, and L. Zamudio (2003), On the interaction of cyclonic eddies with the Loop Current evolution, 2003 EGS-AGU-EGU Joint Assembly, Nice, France.
- Morey, S. L.**, J. J. O'Brien, W. W. Schroeder, and J. Zavala-Hidalgo (2002), Seasonal variability of the export of river discharged freshwater in the northern Gulf of Mexico, MTS/IEEE Oceans 2002, Biloxi, MS.
- Zavala-Hidalgo, J., **S. L. Morey**, and J. J. O'Brien (2002), On the formation and interaction of cyclonic eddies with the Loop Current using NCOM and a suite of observations, MTS/IEEE Oceans 2002, Biloxi, MS.
- Morey, S. L.**, M. A. Bourassa, X. Jia, J. J. O'Brien, W. W. Schroeder, and J. Zavala-Hidalgo (2002), Modeling the oceanic response to episodic wind forcing over the West Florida Shelf, 11th International Biennial Conference on Physics of Estuaries and Coastal Seas, Hamburg, Germany.
- Schroeder, W. W., **S. L. Morey**, and J. J. O'Brien (2002), Seasonal variability in the near-surface salinity field of the northern and eastern Gulf of Mexico, 11th International Biennial Conference on Physics of Estuaries and Coastal Seas, Hamburg, Germany.
- Leonardi, A. P., **S. L. Morey**, and J. J. O'Brien (2002), Interannual variability in the eastern subtropical North Pacific Ocean, *Eos. Trans. AGU*, 83(22), Western Pacific Geophysics Meeting Supplement, Abstract OS42A-05, Wellington, New Zealand.
- Morey, S. L.**, M. A. Bourassa, X. Jia, J. J. O'Brien, and J. Zavala-Hidalgo (2002), Numerical simulations of the Gulf of Mexico forced by QuikSCAT – derived winds, *Eos. Trans. AGU*, 83(4), Ocean Sciences Meeting Supplement, Abstract OS32D-155, Honolulu, HI.
- Zavala-Hidalgo, J., **S. L. Morey**, and J. J. O'Brien (2002), Circulation on the western shelf of the Gulf of Mexico, *Eos. Trans. AGU*, 83(4), Ocean Sciences Meeting Supplement, Abstract OS41Q-11, Honolulu, HI.
- Schroeder, W. W., **S. L. Morey**, and J. J. O'Brien (2002), Variability of surface salinity in the northern Gulf of Mexico as a consequence of the seasonal redistribution of river-discharged fresh water, *Eos. Trans. AGU*, 83(4), Ocean Sciences Meeting Supplement, Abstract OS51E-03, Honolulu, HI.

- Bourassa, M. A., **S. L. Morey**, J. Zavala-Hidalgo, and J. J. O'Brien (2001), Tropical cyclone forcing in the Gulf of Mexico, 11th Conference on Satellite Meteorology and Oceanography.
- Morey, S. L.**, J. Zavala-Hidalgo, and J. J. O'Brien (2001), Simulations of the Gulf of Mexico using the Navy Coastal Ocean Model, Joint Assemblies of the International Association for Physical Sciences of the Oceans / International Association for Biological Oceanography, Mar del Plata, Argentina.
- Morey, S. L.**, J. Zavala-Hidalgo, and J. J. O'Brien (2001), Eddy pair induced jets as an export mechanism for LATEX shelf water in the western Gulf of Mexico, Gordon Research Conference on Coastal Ocean Circulation, New London, NH.
- Morey, S. L.**, J. Zavala-Hidalgo, and J. J. O'Brien (2001), Along-shelf and cross-shelf fronts in the western Gulf of Mexico, *Oceanography*, 14(1), p. 39, The Oceanography Society 2001 Meeting, Miami, FL.
- Morey, S. L.**, and J. J. O'Brien (2000), The spring transition of thermal stratification on a mid-latitude continental shelf, American Geophysical Union 2000 Fall Meeting, San Francisco, CA.
- Murray, C. P., **S. L. Morey**, and J. J. O'Brien (2000), Interannual variability of upper ocean vorticity balances in the Gulf of Alaska, American Geophysical Union 2000 Ocean Sciences Meeting, San Antonio, TX.

Professional Organizations

- American Geophysical Union
- American Society of Limnology and Oceanography
- Gulf of Mexico Coastal Ocean Observing System Regional Association Products and Services Committee Member

Academic Activities

- Doctoral Co-Directive Status, Department of Earth, Ocean and Atmospheric Science, FSU
- Chair, FSU Academic Diving Control Board
- Senior Honors Thesis Supervisor, J. Rudzin, Florida State University
- Ph.D. Committee, E. Kvaleberg, F. Gouillon, D. Van Dyke, A. Todd, Florida State University

Research Funding

- NGI-BP Earth System Modeling, co-P.I., NOAA Northern Gulf Institute, 2011
- Uncertainty Quantification of Oil Spill Transport, co-P.I., NOAA Northern Gulf Institute, 2011
- Characteristics of Deep Currents over the Sigsbee Escarpment and Central Slope, P.I., Deepstar MetOcean Committee, 2010-2012
- A Super-Regional Testbed to Improve Models of Environmental Processes on the U.S. Atlantic and Gulf of Mexico Coasts – Shelf Hypoxia, P.I., NOAA/NGI, 2010-2011
- A Coordinated Modeling Approach in Support of Oil Spill Tracking, Co-P.I., Florida Institute of Oceanography, 2010-2011
- Landfalling Hurricane Wind and Storm Surge Behavior, Co-P.I., Florida Department of Financial Services, 2009-2011
- Simulation and Analysis of Intense Currents along the Sigsbee Escarpment, P.I., Deepstar MetOcean Committee, 2008-2010
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- Ocean Vector Winds Science Team, Co-P.I., NASA, 2006 – 2010
- Analysis of the Variability of Apalachicola Bay Water Properties in Response to Variations in the Apalachicola River Discharge Rate, P.I., Florida Department of Environmental Protection, 2006 – 2007
- Development of a Model of Strong Currents near the Sigsbee Escarpment, P.I., DeepStar MetOcean Committee, 2006 – 2007

Characterization of Gulf of Mexico Deepwater Hard Bottom Communities with Emphasis on *Lophelia* Coral, Co-P.I., Minerals Management Service, 2004 – 2006
Validation of a Gulf of Mexico Loop Current Forecast Model, Co-P.I., DeepStar MetOcean Committee, 2004

Field Experience

FSU Academic Diving Program Science Diver 2007-Present
R. V. Seward-Johnson II / Johnson Sea-Link Submersible, Gulf of Mexico, July, 2004
NOAA Ship *Ka'imimoana*, Pacific Ocean, August – September, 1996