

Curriculum Vitae

1. **Date:** June 15, 2017

PERSONAL

Name: Vassiliki H. Kourafalou
Email: vkourafalou@rsmas.miami.edu
Current Academic Rank: Research Professor
Primary Department: Ocean Sciences,
Rosenstiel School of Marine and Atmospheric Science
University of Miami, Miami, FL33149

HIGHER EDUCATION

University of Miami	Ph.D. Physical Oceanography	1993
University of Miami	M.S. Physical Oceanography	1983
University of Athens, Greece	B.S. Physics	1979

EXPERIENCE

Academic:

University of Miami	Research Professor	2014-
University of Miami	Research Associate Professor	2007-2014
University of Miami	Associate Research Scientist	2001-2007
University of Miami	Post-Doctoral Fellow	1993-1994
University of Miami	Research Associate	1982-1983
University of Miami	Teaching Assistant	1981

Non-academic:

Hellenic Center for Marine Research Athens, Greece (<i>joint appointment with U.Miami/RSMAS</i>)	Senior Scientist	2007
Hellenic Center for Marine Research Athens, Greece (<i>2001-2006 joint appointment with U.Miami/RSMAS</i>)	Associate Scientist	1997-2006
Consiglio Nazionale delle Ricerche Modena, Italy	European Union Research Fellow	1994-1996

Galani Associates, Athens, Greece	Consultant/Physical Oceanographer	1986
Greek Ministry of Public Works, Athens, Greece	Consultant/Physical Oceanographer	1984-1985

PUBLICATIONS

Juried or refereed journal articles and exhibitions

79. De Mey, P., E. Stanev and V.H. Kourafalou, 2017. Science in support of Coastal Ocean Forecasting - Part 1. *Ocean Dynamics*, 67: 665. doi:10.1007/s10236-017-1048-1.
78. Halliwell, G.R., M. Mehari, M. Le Hénaff, V.H. Kourafalou, Y.S. Androulidakis, H. Kang, and R. Atlas, 2017. North Atlantic Ocean OSSE System: Evaluation of Operational Ocean Observing System Components and Supplemental Seasonal Observations for Improving Coupled Tropical Cyclone Prediction. *Journal of Operational Oceanography*, doi: 10.1080/1755876X.2017.1322770.
77. Halliwell, G.R., M. Mehari, L.K. Shay, V.H. Kourafalou, H. Kang, H-S Kim, J. Dong and R. Atlas, 2017. OSSE Quantitative Assessment of Rapid-Response Pre-Storm Ocean Surveys to Improve Coupled Tropical Cyclone Prediction. *J. Geophys. Res.* (In Press).
76. Kourafalou, V.H., Y.S. Androulidakis, G.R. Halliwell, H. Kang, M. Mehari, M. Le Hénaff, R. Atlas and R. Lumpkin, 2016. North Atlantic Ocean OSSE system: Nature Run evaluation and application to hurricane interaction with the Gulf Stream. *Progress in Oceanography*, doi:10.1016/j.pocean.2016.09.001.
75. Le Hénaff, M. and V.H. Kourafalou, 2016. Mississippi waters reaching South Florida reefs under no flood conditions: synthesis of observing and modeling system findings. *Ocean Dynamics*, 66:435-459, doi:10.1007/s10236-016-0932-4.
74. Androulidakis, Y.S., V.H. Kourafalou, G.R. Halliwell, H. Kang, M. Mehari, M. Le Hénaff and R. Atlas, 2016. Hurricane interaction with the upper-ocean in the Amazon-Orinoco plume region. *Ocean Dynamics*, doi:10.1007/s10236-016-0997-0.
73. Klaus, J., V.H. Kourafalou, A. Reniers, H. Kang, N. Kumar, E.M. Zahran, L.G. Bachas, A. Fernandez, P. Gardinali, M. Toborek, S. Daunert, S. Deo and H. M. Solo-Gabriele, 2016. Potential Impacts of PCBs on Sediment Microbiomes in a Tropical Marine Environment. *Journal of Marine Science and Engineering (J.Mar.Sci.Eng.)*,4(13), doi:10.3390/jmse4010013.

72. Smith, S.R., K. Briggs, N. Lopez and V.H. Kourafalou, 2016. Applying automated ship observations to numerical model evaluation. *Journal of Atmospheric and Oceanic Technology*, 33, 409-428, doi:10.1175/JTECH-D-15-0052.1.
71. Vaz, A.C., C.B. Paris, M.J. Olascoaga, V.H. Kourafalou, and H. Kang, 2016. The perfect storm: match-mismatch of bio-physical events drives larval reef fish connectivity between Pulley Ridge and the Florida Keys. *Cont. Shelf Res.*, 125, 136-146, <http://dx.doi.org/10.1016/j.csr.2016.06.012>.
70. Hiestler, H.R., S.L. Morey, D.S. Dukhovskoy, E.P. Chassignet, V.H. Kourafalou and C. Hu, 2016. A topological approach for quantitative comparisons of ocean model fields to satellite ocean color data. *Methods in Oceanography*, 17, 232-250.
69. Androulidakis, Y.S., V.H. Kourafalou and R. Schiller, 2015. Process studies on the Mississippi River plume: impact of topography, wind and discharge conditions. *Cont. Shelf Res.*, (107)33-49, doi:10.1016/j.csr.2015.07.014.
68. Kourafalou V.H., P. De Mey, M. Le Hénaff, G. Charria, C.A. Edwards, R. He, M. Herzfeld, A. Pasqual, E. Stanev, J. Tintoré, N. Usui, A. Van Der Westhuysen, J. Wilkin and X. Zhu, 2015. Coastal Ocean Forecasting: system integration and validation. *Journal of Operational Oceanography*, doi:10.1080/1755876X.2015.1022336.
67. Kourafalou, V.H., P. De Mey, J. Staneva, N. Ayoub, A. Barth, Y. Chao, M. Cirano, J. Fiechter, M. Herzfeld, A. Kurapov, A.M. Moore, P. Oddo, J. Pullen, A. van der Westhuysen and R.H. Weisberg, 2015. Coastal Ocean Forecasting: science foundation and user benefits. *Journal of Operational Oceanography*, doi:10.1080/1755876X.2015.1022348.
66. Halliwell, G.R., V.H. Kourafalou, M. Le Hénaff, L.K Shay, R. Atlas, 2015. OSSE Impact Analysis of Airborne Ocean Surveys for Improving Upper-Ocean Dynamical and Thermodynamical Forecasts in the Gulf of Mexico. *Progress in Oceanography*, doi:10.1016/j.pocean.2014.09.004.
65. Oke, P.R., G. Larnicol, E.M. Jones, V.H. Kourafalou, A.K. Sperrevik, F. Carse, C.A.S. Tanajura, B. Mourre, M. Tonani, G.B. Brassington, M. Le Hénaff, G.R. Halliwell, R. Atlas, A.M. Moore, C.A. Edwards, M.J. Martin, A.A. Stellar, A. Alvarez, P. De Mey, M. Iskandarani, 2015. Assessing the impact of observations on ocean forecasts and reanalyses: Part 2: Regional applications. *Journal of Operational Oceanography*, doi: 10.1080/1755876X.2015.1022080.
64. Schiller, A., M. Bell, G. Brassington, P. Brasseur, R. Barciela, P. De Mey, E. Dombrowsky, M. Gehlen, F. Hernandez, V.H. Kourafalou, G. Larnicol, P.-Y. Le Traon, M. Martin, P. Oke, G. Smith, N. Smith, H. Tolman, K. Wilmer-Becker, 2015. Synthesis of New Scientific Challenges for GODAE OceanView. *Journal of Operational Oceanography* (In Press).

63. Androulidakis, Y.S., V.H. Kourafalou and R. Schiller (In Revision). Process studies on the Mississippi River plume: impact of topography, wind and discharge conditions. *Cont. Shelf Res.*
62. Gouillon, F., M. Boutet, V.H. Kourafalou, C. Lathuilière, R. Baraille, Y. Morel (In Revision). Potential Vorticity analysis of river plumes dynamics: model diagnostics. *J. Geophys. Res.*
61. Smith, S.R., K. Briggs, N. Lopez and V.H. Kourafalou (In Revision). Numerical Model Evaluation Using Automated Underway Ship Observations. *J. of Atmospheric and Oceanic Technology.*
60. Vaz, A.C., C.B. Paris, M.J. Olascoaga, V.H. Kourafalou, and H. Kang (Submitted). The perfect storm: match-mismatch of bio-physical events drives larval reef fish connectivity between Pulley Ridge and the Florida Keys. *Cont. Shelf Res.*
59. Androulidakis, Y.S., V.H. Kourafalou and M. Le Hénaff, 2014. Influence of frontal cyclones evolution on the 2009 (Ekman) and 2010 (Franklin) Loop Current Eddy detachment events. *Ocean Science*, 10, 947–965, doi:10.5194/os-10-947-2014.
58. Le Hénaff, M., V.H. Kourafalou, R. Dussurget and R. Lumpkin, 2014. Cyclonic activity in the eastern Gulf of Mexico: characterization from along-track altimetry and *in situ* drifter trajectories. *Progress in Oceanography*. pp. 120-138, doi: 10.1016/j.pocean.2013.08.002.
57. Schiller, R.V. and V.H. Kourafalou, 2014. Loop Current impact on the transport of Mississippi River waters. *J. Coastal Res.*, 30(6), 1287-1306, doi: 10.2112/JCOASTRES-D-13-00025.1.
56. Gerin, R., V.H. Kourafalou, P.-M. Poulain and Ş. Beşiktepe, 2014. Influence of thermal fronts, winds and bathymetry on drifter trajectories in the Aegean Sea. *Medit. Mar. Science*, 239-249, doi: <http://dx.doi.org/10.12681/mms.464>.
55. Halliwell, G.R., A. Srinivasan, V.H. Kourafalou, H. Yang, D. Willey, M. Le Hénaff and R. Atlas, 2014. Rigorous Evaluation of a Fraternal Twin Ocean OSSE System for the Open Gulf of Mexico. *J. Atm. Ocean. Techn.* 31(1):105-130, doi: 10.1175/JTECH-D-13-00011.1.
54. Ghani, M.H., L.R. Hole, I. Fer, V.H. Kourafalou, N. Wienders, D. Peddie, 2014. The SailBuoy remotely-controlled unmanned vessel: measurements of near surface temperature, salinity and oxygen concentration in the Gulf of Mexico. *Methods in Oceanography*, doi: 10.1016/j.mio.2014.08.11.
53. Kourafalou, V.H. and Y.S. Androulidakis, 2013. Influence of Mississippi induced circulation on the Deepwater Horizon Oil Spill transport. *J. Geophys. Res.*, 118, 1–20, doi:10.1002/jgrc.20272.

52. Androulidakis, Y.S. and V.H. Kourafalou, 2013. On the processes that influence the transport and fate of Mississippi waters under flooding outflow conditions. *Ocean Dynamics*, doi:10.1007/s10236-012-0587-8.
51. Tsiaras, K., I. Petihakis, V.H. Kourafalou and G. Triantafyllou, 2013. Impact of the river nutrient load variability on the North Aegean ecosystem functioning over the last decades. *J. Sea Res.*, 86, 97-109.
50. Purkis, S., J. Kerr, A. Dempsey, A. Calhoun, L. Metsamaa, B. Riegl, V.H. Kourafalou, A. Buckner and P. Renaud, 2013. Contemporary Sedimentology of the Cay Sal Bank, Bahamas. *Geomorphology*. doi: 10.1016/j.geomorph.2014.03.004.
49. Kourafalou, V.H. and H. Kang, 2012. Florida Current meandering and evolution of cyclonic eddies along the Florida Keys Reef Tract: are they inter-connected? *J. Geophys. Res.* 117, C05028, doi:10.1029/2011JC007383.
48. Le Hénaff, M., V.H. Kourafalou, Y. Morel and A. Srinivasan, 2012. Simulating the dynamics and intensification of cyclonic Loop Current frontal eddies in the Gulf of Mexico. *J. Geophys. Res.*, 117, C02034, doi:10.1029/2011JC007279.
47. Le Hénaff M., V.H. Kourafalou, C.B. Paris, J. Helgers, P.J. Hogan, A. Srinivasan, 2012. Surface evolution of the Deepwater Horizon oil spill: combined effects of circulation and wind induced drift. *Environ. Sci. Technol.*, 46, 7267–7273, doi:10.1021/es301570w.
46. Androulidakis, Y.S., V.H. Kourafalou, Y.N. Krestenitis and V. Zervakis, 2012. Variability of deep water mass characteristics in the North Aegean Sea: the role of lateral inputs and atmospheric conditions. *Deep Sea Res. I*, (67) 55-72, doi: 10.1016/j.dsr.2012.05.004.
45. Androulidakis, Y.S., Y. Krestenitis, and V.H. Kourafalou, 2012. Connectivity of North Aegean circulation to the Black Sea water budget, *Cont. Shelf Res.*, 48, 8-26, doi: 10.1016/j.csr.2012.08.019.
44. Tsiaras K.P., V.H. Kourafalou, D.E. Raitsos, G. Triantafyllou, G. Petihakis and G. Korres, 2012. Inter-annual productivity variability in the North Aegean Sea: influence of thermohaline circulation during the Eastern Mediterranean Transient. *J. Mar. Sys.*, (96–97), 72–81, doi: 10.1016/j.jmarsys.2012.02.003.
43. Sponaugle, S., C. Paris, K. Walter, V.H. Kourafalou, E. D' Alessandro, 2012. Observed and modeled larval settlement of a reef fish to the Florida Keys. *Mar. Ecol. Prog. Ser.* 453: 201–212, doi: 10.3354/meps09641.
42. Paris, C.B., M. Le Hénaff, Z. Aman, A. Suramaniam, J. Helgers, D.P. Wang, V.H. Kourafalou, A. Srinivasan, 2012. Evolution of the Macondo Well blowout: Simulating the Effects of the

- Circulation and Synthetic Dispersants on the Subsea Oil Transport. *Environ. Sci. Technol.*, doi:10.1021/es303197h.
41. Schiller, R.V., V.H. Kourafalou, P.J. Hogan and N.D. Walker, 2011. The dynamics of the Mississippi River plume: impact of topography, wind and offshore forcing on the fate of plume waters. *J. Geophys. Res.*, doi:10.1029/2010JC006883, 116, C06029.
40. Androulidakis, Y.S. and V.H. Kourafalou, 2011. Evolution of a buoyant outflow in the presence of complex topography: the Dardanelles plume (North Aegean Sea). *J. Geophys. Res.*, 116(C04019), doi:10.1029/2010JC006316.
39. Mariano, A.J., V.H. Kourafalou, A. Srinivasan, H. Kang, G.R. Halliwell, E.H. Ryan and M. Roffer, 2011. On the modeling of the 2010 Gulf of Mexico Oil Spill. *Dynamics of Atmospheres and Oceans*, doi:10.1016/j.dynatmoce.2011.06.001, 52, 322– 340. [most downloaded journal article]
38. Schiller, R.V. and V.H. Kourafalou, 2010. Modeling river plume dynamics with the Hybrid Coordinate Ocean Model. *Ocean Modeling*, doi:10.1016/j.ocemod.2009.12.005.
37. Staneva, J., V.H. Kourafalou and K.P. Tsiaras, 2010. Seasonal and interannual variability of the north-western Black Sea ecosystem. *Terr. Atmos. Ocean. Sci.*, 21(1), doi: 10.3319/TAO.2009.06.08.03, 163-180.
36. Kourafalou V.H., G. Peng, H. Kang, P.J. Hogan, O.M. Smedstad and R.H. Weisberg, 2009. Evaluation of Global Ocean Data Assimilation Experiment products on South Florida nested simulations with the Hybrid Coordinate Ocean Model. *Ocean Dynamics*, doi:10.1007/s10236-008-0160-7, 59(1), 47-66.
35. Karageorgis, A.P., V.H. Kourafalou, C. Anagnostou, K.P. Tsiaras, D.E. Raitsos, V. Papadopoulos and A. Papadopoulos, 2009. River induced particle distribution in the Northwestern Black Sea (September 2002 and 2004). *J. Geophys. Res.*, 114, C12003, doi:10.1029/2009JC005460.
34. De Mey, P., P. Craig, F. Davidson, C.A. Edwards, Y. Ishikawa, J.C. Kindle, R. Proctor, K.R. Thompson, J. Zhu et al. (including V.H. Kourafalou), 2009. Applications in Coastal Modeling and Forecasting. *Oceanography*, 22(3), 198-205.
33. Tsiaras, K., V.H. Kourafalou, A. Davidov and J. Staneva, 2008. A three-dimensional coupled model of the western Black Sea plankton dynamics: seasonal variability and comparison to SeaWiFs data. *J. Geophys. Res.*, 113, C07007, doi:10.1029/2006JC003959.
32. Kourafalou, V.H. and K. Tsiaras, 2007. A nested circulation model for the North Aegean Sea. *Ocean Sci.*, 3, 1-16.

31. Olson, D.B., V.H. Kourafalou, W.H. Johns, G. Samuels and M. Veneziani, 2007. Aegean Surface Circulation from a Satellite-tracked Drifter Array. *J. Phys. Oceanogr.*, 37(7), pp. 1898-1917.
30. Soares, I.D., V.H. Kourafalou and T.N. Lee, 2007. The Western South Atlantic Continental Shelf circulation. Part 1: Numerical process studies on buoyancy. *J. Geophys. Res.*, 112, C04002, doi:10.1029/2006JC003618.
29. Soares, I.D., V.H. Kourafalou and T.N. Lee, 2007. The Western South Atlantic Continental Shelf circulation. Part 2: Spring and Autumn realistic simulations. *J. Geophys. Res.*, 112, C04003, doi:10.1029/2006JC003620.
28. Kourafalou, V.H., K. Tsiaras and J.V. Staneva, 2005. Numerical studies on the dynamics of the Northwestern Black Sea shelf. *Mediterranean Marine Science*, 5/1, 133-142.
27. Sponaugle, S., T.N. Lee, V.H. Kourafalou and D. Pinkard, 2005. Florida Current frontal eddies and the settlement of coral reef fishes. *Limnology and Oceanography*, 50: 1033-1048.
26. Kourafalou, V.H., Y.G. Savvidis, C.G. Koutitas and Y.N. Krestenitis, 2004. Modeling studies on the processes that influence matter transfer on the Gulf of Thermaikos (NW Aegean Sea). *Cont. Shelf Res.* 24, 203-222.
25. Kourafalou, V.H. and K.A. Barbopoulos, 2003. High resolution simulations on the North Aegean Sea seasonal circulation. *Annales Geophysicae*, 21(1), 251-265.
24. Kontoyiannis, H., V. H. Kourafalou and V. Papadopoulos, 2003. The seasonal characteristics of the hydrology and circulation in the Northwest Aegean Sea (Eastern Mediterranean): observations and modeling. *J. Geophys. Res.*, 108, C9, 3302, doi: 10.1029/2001JC001132.
23. Zavatarelli, M., N. Pinardi, V.H. Kourafalou and A. Maggiore, 2002. Diagnostic and prognostic model studies of the Adriatic Sea general circulation. Part 1: The seasonal variability and the role of the forcing functions. *J. Geophys. Res.*, 107(C1), 1-20.
22. Kourafalou, V.H. and E.V. Stanev, 2001. Modelling the impact of atmospheric and terrestrial inputs on the western Black Sea coastal dynamics. *Annales Geophysicae*, 19, 245-256.
21. Kourafalou, V.H., 2001. Modelling river plumes on Mediterranean shelves: Po River plume (North Adriatic Sea) and Axios River plume (North Aegean Sea). *J. Marine Syst.*, 30(3-4), 181-205, doi: 10.1016/S0924-7963(01)00058-6.
20. Beg Paklar, G., V. Isakov, D. Koracin, V. H. Kourafalou and M. Orlic, 2001. A case study of bora-driven currents and Po outflow spreading over the Adriatic shelf (16-20 January 1987). *Cont. Shelf Res.* 21, 1751-1783.

19. Kourafalou, V.H., 1999. Process studies on the Po River plume, North Adriatic Sea. *J. Geophys. Res.*, 104(C12), 29963-29985, doi: 10.1029/1999JC900217.
18. Kourafalou, V.H., L.-Y. Oey, J.D. Wang and T.N. Lee, 1996. The fate of river discharge on the continental shelf. Part I: modeling the river plume and the inner-shelf coastal current. *J. Geophys. Res.*, 101(C2), 3415-3434, doi: 10.1029/95JC03024.
17. Kourafalou, V.H., L.-Y. Oey, T.N. Lee and J.D. Wang, 1996. The fate of river discharge on the continental shelf. Part II: transport of low-salinity waters under realistic wind and tidal forcing. *J. Geophys. Res.*, 101(C2), 3435-3455, doi: 10.1029/95JC03025.
16. Lee, T.N., W-J Ho, V. Kourafalou and J.D. Wang, 1984. Circulation on the continental shelf of the southeastern United States, Part 1: subtidal response to wind and Gulf Stream forcing. *J. Phys. Oceanogr.*, 14, 1001-1012, doi: 10.1175/1520-0485(1984)014<1001:COTCSO>2.0.CO;2.
15. Wang, J.D., V. Kourafalou and T.N. Lee, 1984. Circulation on the continental shelf of the southeastern United States, Part 2: model development and application to tidal flow. *J. Phys. Oceanogr.*, 14, 1013-1021, doi:10.1175/1520-0485(1984)014<1013:COTCSO>2.0.CO;2.
14. Kourafalou, V., J.D. Wang and T.N. Lee, 1984. Circulation on the continental shelf of the southeastern United States, Part 3: modeling the winter wind-driven flow. *J. Phys. Oceanogr.*, 14, 1022-1031, doi: 10.1175/1520-0485(1984)014<1022:COTCSO>2.0.CO;2.

Books and monographs published (* denotes peer reviewed)

13. De Mey, P. and V.H. Kourafalou, 2014. The GODAE OceanView Coastal Ocean and Shelf Seas Task Team, pp. 89-97, in: "Oceans and Society: Blue Planet", Edited by Samy Djavidnia, Victoria Cheung, Michael Ott and Sophie Seeyave. Cambridge Scholars Publishing, 2014. ISBN: 978-1-4438-5639-3, 252 pp.
12. Kourafalou, V.H., 2011. Hydrodynamic models provide insights into circulation patterns, pp. 86-88, in: "Tropical Connections: south Florida's marine environment," W.L. Kruczynski and P.J Fletcher (eds.). IAN Press, University of Maryland Center for Environmental Science, Cambridge, MD, 492 pp.
11. *Peng, G., Z. Garraffo, G.R. Halliwell, O. M. Smedstad, C. S. Meinen, V.H. Kourafalou, and P. Hogan, 2009. Temporal Variability of the Florida Current Transport at 27°N. In: "Ocean Circulation and el Nino". Ed., F. Columbus. Nova Science Publishers, Inc., Hauppauge, NY, pp. 119-137.
10. Kourafalou, V.H., E. Williams and T.N. Lee, 2007. Favorite drifter trajectories deployed from the western shelf of Florida and the coastal waters of the Florida Keys. In: *Lagrangian Analysis*

and Prediction of Coastal and Ocean Dynamics, edited by A. Griffo, A. D. Kirwan, A. J. Mariano, T. Özgökmen, and T. Rossby, pp. 78-82, Amazon.

9. Kroiss, H., M. Zessner, U. Horstmann, V.H. Kourafalou, J. Van Gils, V. Velikova and A. Cosiacu, 2005. "Nutrient Management of the Danube River and its impact on the Black Sea". *EU/Environment Series, EVK1-CT-2000-00051*, Brussels, Belgium, pp. 69.
8. *Kourafalou V.H., K.A. Barbopoulos, K. Tsiaras and J.V. Staneva, 2003. Numerical studies on shelf dynamics: North Aegean Sea and Northwestern Black Sea. In: *Oceanography of the Eastern Mediterranean and Black Sea*, A. Yilmaz (ed.), Tubitak publ., Ankara, Turkey, pp. 329-335.
7. *Staneva, J., V.H. Kourafalou and E.V. Stanev, 2003. The response of the Black Sea ecosystem to changes of nutrient discharge from the Danube River. In: *Oceanography of the Eastern Mediterranean and Black Sea*, A. Yilmaz (ed.), Tubitak publ., Ankara, Turkey, pp. 307-313.
6. *P.-M. Poulain, V.H. Kourafalou and B. Cushman-Roisin, 2001. "The Northern Adriatic Sea." In: *Oceanography of the Adriatic Sea: Past, Present and Future*, B. Cushman-Roisin, M. Gacic and P.-M. Poulain, eds., Kluwer Academic Publishers, Dordrecht, pp.143-165.
5. *Kourafalou, V.H., 1998. "A 3-D model of the Po River plume". In: *Ecosystems Research: the Adriatic Sea. EU/Environment Series, EVK1-CT-1998*, Brussels, Belgium, pp. 642-655.
4. Kourafalou, V.H. and M. Zavatarelli, 1997. "Shelf - open sea exchanges in the Adriatic Sea," In: *IMGA-CNR Adriatic Sea studies, 10-97*, 1-36.
3. *Kourafalou, V., 1986. "A 2-D, one-layer model of coastal circulation". *NATO Advanced Studies Institute Numerical Modeling Series*, 3(2), pp.119-138.
2. *Lee, T.N., V. Kourafalou, J.D. Wang, W.J. Ho, J.O. Blanton and L.P. Atkinson, 1985. "Shelf circulation from Cape Canaveral to Cape Fear during winter." In: *Oceanography of the Southeastern U.S. continental shelf*. (L.P. Atkinson, D.W. Menzel and K.A. Bush, eds.), pp. 33-62. AGU Coastal and Estuarine Sciences 2. doi: 10.1029/CO002p0033.
1. *Pietrafesa, J.L., J.O. Blanton, J.D. Wang, V. Kourafalou, T.N. Lee and K.A. Bush, 1985. "The tidal regime in the South Atlantic Bight." In: *Oceanography of the Southeastern U.S. continental shelf*. (L.P. Atkinson, D.W. Menzel and K.A. Bush, eds.), pp. 63-76. AGU Coastal and Estuarine Sciences 2. doi: 10.1029/CO002p0063.

Juried or Refereed Conference Proceedings

29. Kourafalou, V.H., Y. Androulidakis, M. Le Hénaff, H. Kang, O. Garcia, C. Hu, C. Wettre and L. Hole, 2017. Measuring and modeling the transport and fate of hydrocarbons in the Gulf of

- Mexico. *Proceedings of the Sixth International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE)*, Thessaloniki, Greece, 7 pp.
28. Androulidakis Y., Kourafalou V.H., 2015. On the interaction of Mississippi River waters with the Deepwater Horizon oil spill (Gulf of Mexico). *Proceedings of the 36th IAHR (International Association for Hydro-Environment Engineering and Research) World Congress*. The Hague, Netherlands, 9 pp.
 27. Androulidakis Y., Kourafalou V.H., 2015. Mississippi River plume and Deepwater Horizon oil spill, *11th Symposium on Oceanography & Fisheries*, Mytilene, Greece, 4 pp.
 26. Kourafalou, V.H. and Y.S. Androulidakis, 2012. On the interaction of Mississippi River buoyant waters with the Deepwater Horizon Oil Spill in the Gulf of Mexico. *Proceedings of Protection and Restoration of the Environment XI*, Thessaloniki, Greece, pp. 843-852.
 25. Androulidakis Y., Krestenitis Y., Kourafalou V., 2010. Modeling the North Aegean circulation with the Hybrid Coordinate Ocean Model. *Proceedings of the 6th International Symposium on Environmental Hydraulics*, Athens, Greece, pp. 487-492.
 24. Srinivasan, A., J. Helgers, C. Paris, M. Le Hénaff, H. Kang, V. Kourafalou, M. Iskandarani, C. Thacker, J. Zysman, N. Tsinoremas, O. Knio, 2010. Many Task Computing for Modeling the Fate of Oil Discharged from the Deep Water Horizon Well Blowout. *Proceedings of the 3rd workshop on Many-Task Computing on Grids and Supercomputers (MTAGS10)*, 7 pp.
 23. Blain, C.A., M.K. Cambazoglu and V.H. Kourafalou, 2010. Modeling the Dardanelles Strait Outflow Plume using a Coupled Model System. *Proceedings of the Marine Technology Society Conference MTS/IEEE Oceans09: Marine Technology for our Future: Global and Local Challenges*, OCEANS 2009, VOLS 1-3 Book Series: OCEANS-IEEE, pp. 407-414, ISBN: 978-1-4244-4960-6, INSPEC Accession Number: 11155249, Biloxi, MS.
 22. Kourafalou, V.H., 2009. Interdisciplinary modeling support to the Comprehensive Everglades Restoration Project (CERP). *2nd International Conference on Environmental Management, Engineering, Planning and Economics, CEMEPE*, Mykonos, Greece, p. 379-384, Grafima publ., ISBN 978-960-6865-08-4.
 21. Androulidakis Y.S., Y.N. Krestenitis, V.H. Kourafalou and D. Raitzos, 2009. Investigating the Black Sea Contribution into the North Aegean Sea hydrodynamic circulation, *Proceedings of the Greek Commission of Water Resources Management Congress*, Volos, Greece, pp 929-936.
 20. Androulidakis Y.S., V.H. Kourafalou and Y.N. Krestenitis, 2009. Hydrodynamic hybrid model implementation in the North Aegean, *9th Symposium on Oceanography & Fisheries, 2009 - Proceedings*, Volume I, pp 451-456, Patra, Greece.

19. Kourafalou, V.H., G. Halliwell, P.J. Hogan and O.M. Smedstad, 2008. Physical Oceanography in the Gulf of Mexico: Connectivity of coastal ecosystems and large scale flows. In: *"A Scientific Forum on the Gulf of Mexico: The Islands in the Stream Concept (Proceedings)"*, Ritchie, K. B. and Brian D. Keller, eds. Mote Marine Laboratory, Sarasota, FL. Marine Sanctuaries Conservation Series NMSP-07. NOAA/National Marine Sanctuary Program, Silver Spring, MD. 101 pp.
18. Kang, H., V.H. Kourafalou and C.B. Paris, 2008. Influence of Florida Current frontal eddies on circulation and fish recruitment around the Florida Keys Reef Tract. *Proceedings of the 11th International Coral Reef Symposium: Reefs of the Future*, ICRS2009, No 15(3), pp.475-478.
17. Kourafalou, V.H. and G. Peng, 2007. Modeling support for the Comprehensive Everglades Restoration Project (South Florida): salinity changes under natural variability and anthropogenic influence. *Proceedings of the Conference on Environmental Management, Engineering, Planning and Economics, CEMEPE07*, pp. 595-600.
16. Kourafalou, V.H. and R.S. Balotro, 2006. Connecting the U.S. Florida Keys coral reef ecosystem to the hydrodynamics. *Proceedings of the 10th International Coral Reef Symposium: The Physical and Hydrodynamic Environments and their influence on coral reef processes*, ICRS2004, 890-895.
15. Kourafalou, V.H., K. Tsiaras, J. Staneva and A. Papadopoulos, 2006. Coupled biophysical simulations on the transport of low-salinity waters and nutrients in the Black Sea (in Greek). *Proceedings of the Eighth Panhellenic Symposium of Oceanography and Fisheries*, National Center for Marine Research, Athens, Greece, pp. 135-139.
14. Kourafalou, V.H., K. Tsiaras, A. Papadopoulos, H. Kontoyiannis, D. Olson, W. Johns and V. Zervakis, 2006 (in Greek). North Aegean Sea circulation: results from drifter observations and model simulations. *Proceedings of the Eighth Panhellenic Symposium of Oceanography and Fisheries*, National Center for Marine Research, Athens, Greece, pp. 73-78.
13. Kourafalou, V.H. and K. Tsiaras, 2003. Numerical studies on the dynamics of the Northwestern Black Sea shelf. *Proceedings of the 7th Panhellenic Symposium on Oceanography and Fisheries*, National Center for Marine Research, Athens, Greece. pp. 102-107.
12. Kourafalou, V.H., J.V. Staneva and K. Tsiaras, 2003. Modelling the seasonal cycle of the Northwestern Black Sea ecosystem. *Proceedings of the 7th Panhellenic Symposium on Oceanography and Fisheries*, National Center for Marine Research, Athens, Greece. pp. 156-160.
11. Olson, D., Kourafalou, V.H., W. Johns, H. Kontoyiannis and V. Zervakis, 2003. The Aegean Sea Pilot Drifter Program. *Proceedings of the 7th Panhellenic Symposium on Oceanography and Fisheries*, National Center for Marine Research, Athens, Greece, pp. 87-92.

10. Staneva, J., V.H. Kourafalou, K. Tsiaras and E.V. Stanev, 2003. An integrated study of physical and ecosystem dynamics: one step towards developing management tools for the protection of the Black Sea marine environment. *Proceedings of the conference: Scientific and policy challenges towards an effective management of the marine environment*, Albena, Bulgaria, pp. 288-299.
9. Krestenitis, Y, V.H. Kourafalou and Y. Savvidis, 2001. Numerical studies of the matter transfer in Thermaikos Gulf. Proceedings of the 29th Annual Congress of the International-Association-of-Hydraulic-Engineering-and-Research (IAHR): 21st century: the new era for hydraulic research and its applications, pp 287-293, Beijing, China.
8. Kourafalou, V.H., C.A. Barbopoulos and Y.N Krestenitis, 2000. Modelling the hydrodynamic processes that control matter transfer in Thermaikos Gulf (in Greek). *Proceedings of the Sixth Panhellenic Symposium of Oceanography and Fisheries*, National Center for Marine Research, Athens, Greece, pp. 59-64.
7. Barbopoulos, K.A., V.H. Kourafalou and Y.N. Krestenitis, 2000. Modelling the three-dimensional circulation in the North Aegean Sea (in Greek). *Proceedings of the Sixth Panhellenic Symposium of Oceanography and Fisheries*, National Center for Marine Research, Athens, Greece, pp.144-149.
6. Barbopoulos, K.A., Y.N. Krestenitis and V.H. Kourafalou, 2000. High resolution modelling of the North Aegean Sea hydrodynamic circulation. *Proceedings of the V Conference for the Protection and Restoration of the Environment*, Thassos, Greece, pp. 201-206.
5. Kourafalou, V.H. and E.V. Stanev, 1999. Modelling the transport of Danube waters on the Western Black Sea. *Proceedings of the International Conference on the Oceanography of the Eastern Mediterranean and Black Sea*, Athens, Greece, pp. 313-318.
4. Beg Paklar, G., V. Isakov, D. Koracin, V.H. Kourafalou, and M. Orlic 1999. Observations and modelling of the Po River inflow to the Northern Adriatic (the case of 16-20 January 1987). *Proceedings of the International Conference on the Oceanography of the Eastern Mediterranean and Black Sea*, Athens, Greece, pp. 121-125.
3. Kourafalou, V.H., Y. Krestenitis, K. Barbopoulos and C. Tziavos, 1999. The implementation of the Mediterranean Forecasting System in the Aegean Sea. *Proceedings of the 3rd Conference on Coastal Prediction*, edited by the American Meteorological Society, pp. 253-257.
2. Kourafalou, V.H., 1997. Process studies on the Po River plume. *International Conference: Progress in Oceanography of the Mediterranean Sea*, Rome, Italy, p.p. 181-186.

1. Kourafalou, V.H., 1997. On the influence of river runoff on the Adriatic Sea general circulation. (in Greek). *Proceedings of the Fifth Panhellenic Symposium of Oceanography and Fisheries*, National Center for Marine Research, Athens, Greece, pp. 323-328.

Theses

Kourafalou, V.H., 1993. "Continental shelf response to freshwater input from rivers: a 3-D model study and applications" . Ph.D. Dissertation, University of Miami, Florida, 218 pp.

Kourafalou, V., 1983. "Modeling of winter circulation on the Southeast U.S. Continental Shelf". M.S. Thesis, Univ. of Miami, Miami, Fl, 97 pp.

Kourafalou, V., 1979. "Model application on the study of lee waves." B.S. Thesis, Physics Department, University of Athens, Athens, Greece, (In Greek), 49 pp.

Reports and Non- refereed Conference Proceedings

Cipollini, P., J. Benveniste, L. Miller, N. Picot, R. Scharroo, T. Strub, D. Vandemark, S. Vignudelli, S. Zoffoli, O. Andersen, L. Bao, F. Birol, E. Coelho, X. Deng, W. Emery, L. Fenoglio, J. Fernandes, J. Gomez-Enri, D. Griffin, G. Han, J. Hausman, K. Ichikawa, A. K., V. Kourafalou, S. Labroue, R. Ray, M. Saraceno, W. Smith, P. Thibaut, J. Wilkin, S. Yenamandra, 2012. Conquering the coastal zone: a new frontier for satellite altimetry. *Proceedings of the "20 Years of Progress in Radar Altimetry" Symposium*, Venice, Italy (Eds. J. Benveniste and R. Morrow), 9/2012, ESA Special Publication SP-710 (CD-ROM), ESA Publications Division, European Space Agency, Noordwijk, The Netherlands.

Kourafalou, V.H., Y.S. Androulidakis, and Y.N. Krestenitis, 2010. Investigating the circulation impacts of the Dardanelles flow exchange with the North Aegean Hybrid Coordinate Ocean Model. *Rapp. Comm. int. Mer Medit.*, 39 (published by the Mediterranean Science Commission).

Kourafalou, V.H., K. Tsiaras, D. Raitzos and Y.S. Androulidakis, 2010. Advances in the Northeastern Mediterranean Sea: complex pathways of the waters of Black Sea origin through the Aegean Sea. *Rapp. Comm. int. Mer Medit.*, 39 (published by the Mediterranean Science Commission).

Kourafalou, V.H., 2009. Buoyant Outflows in the Presence of Complex Topography. *Defense Technical Information Center*, DTIC/ADA526974, 11 pp.

Kourafalou, V. ; Androulidakis, I. ; Raitzos, D. ; Tsiaras, K. ; Wallcraft, A. ; Smedstad, O. M. ; Jarosz, E. ; Blain, C. A. ; Poulain, P. M. ; Besiktepe, S., 2009. Modeling the Influence of the

Dardanelles Outflow on the Aegean Sea Dynamics. *Defense Technical Information Center*, DTIC/ADA537800, 24 pp.

Kourafalou, V.H., P. Ortner, M. Le Hénaff, R. Atlas and G. Halliwell, 2009. Observing System Simulation Experiments of a coastal high resolution oceanographic model in the Northern Gulf of Mexico. In: *UM/RSMAS Cooperative Institute for Marine and Atmospheric Science 8th Annual report*, P. Ortner and D. Die eds., 232 pp.

Kourafalou, V.H. and G. Goni, 2008. Simulation of circulation and nutrients transport around Florida Bay and the Florida Keys with the South Florida Regional SoFLA-HYCOM model. In: *UM/RSMAS Cooperative Institute for Marine and Atmospheric Science 7th Annual report*, J. Prospero and P. Ortner eds., 167 pp.

Kourafalou, V.H., G. Halliwell, P. Ortner, R. Atlas and G. Goni, 2008. Enabling and initiating Observing System Simulation Experiments of a coastal high resolution oceanographic model in the Northern Gulf of Mexico. In: *UM/RSMAS Cooperative Institute for Marine and Atmospheric Science 7th Annual report*, J. Prospero and P. Ortner eds., 167 pp.

Kelble, C., N. Melo, G. Rawson, A. Stefanick, X. Huang, P. Ortner, V. Kourafalou, E. Johns, R. Smith, J.-Z. Zhang, C. Fischer and S. Cummings, 2008. Long-term measurement of physical, chemical, and biological water column properties in the South Florida Coastal Ecosystem. In: *UM/RSMAS Cooperative Institute for marine and Atmospheric Science 7th Annual report*, J. Prospero and P. Ortner eds., 167 pp.

Halliwell, G.H., L.K. Shay, V.H. Kourafalou, R.H. Weisberg, A. Barth, H.E. Hurlburt, O.M. Smedstad, J.A. Cummings, 2008. HYCOM Coastal Ocean Hindcasts and Predictions: Impact of Nesting in HYCOM GODAE Assimilative Hindcasts. *Defense Technical Information Center*, DTIC/ADA496635, 8 pp.

Kourafalou, V.H. and G. Goni, 2007. Simulation of Circulation and Nutrients Transport around Florida Bay and the Florida Keys with the South Florida Regional SOFLA-HYCOM Model. In: *UM/RSMAS Cooperative Institute for Marine and Atmospheric Science 6th Annual report*, J. Prospero and P. Ortner eds., 170 pp.

Lee, T.N., E. Johns, P. Ortner, J. Boyer, J. Chanton, S. Chen, J. Hamrick, C. Hittle, V. Kourafalou, C. Langevin, V. Levesque, F. Marshall, Z. Moustafa, W. Nuttle, E. Patino, J. Pica, R. Price, M. Robblee, D. Rudnick, R. Schaffranek, D. Smith, N. Smith, E. Swain, P. Swart, Z. Top, P. Trimble, S. Vargo, J. Wang, P. Willis, 2007. Physical Processes. In: *Florida Bay Science Program: a synthesis of research on Florida Bay*, J. Hunt and W. Nuttle eds. Florida Fish and Wildlife Conservation Commission, FWR1 Techn. Rep. TR-11, pp. 30-54.

Kourafalou, V.H., 2007. On the Dardanelles outflow in the Aegean Sea: implications on the basin-wide circulation and operational modeling. *Rapp. Comm. int. Mer Médit.*, 38, (published by the Mediterranean Science Commission).

- Kourafalou, V.H. and G. Goni, 2006. Regional model for South Florida coastal seas. In: *UM/RSMAS Cooperative Institute for Marine and Atmospheric Science 5th Annual report*, J. Prospero and D. Die eds., 162 pp.
- Kourafalou, V.H., R.S. Balotro, G. Peng, T.N. Lee, E. Johns, P.B. Ortner, A. Wallcraft and T. Townsend, 2006. Seasonal variability of circulation and salinity around Florida Bay and the Florida Keys: SoFLA-HYCOM results and comparison to in-situ data. *UM/RSMAS Tech. Rep. 2006/04*, 102 pp.
- Kourafalou, V.H., R.S. Balotro and T.N. Lee, 2005. The SoFLA-HYCOM (South Florida HYCOM) Regional Model around the Straits of Florida, Florida Bay and the Florida Keys. *UM/RSMAS Tech. Rep. 2005/03*, 28 pp.
- Kourafalou, V.H., Y. Krestenitis and K. Barbopoulos, 1998. "Modelling the seasonal variability of the processes that affect matter transfer on Thermaikos Gulf. Part 1: land-sea interaction." *Scientific Report of the METRO-MED (EU-MAST III-ELOISE) project*. pp. 199-208.
- Krestenitis, Y., K. Barbopoulos and V.H. Kourafalou, 1998. "Modelling the seasonal variability of the processes that affect matter transfer on Thermaikos Gulf. Part 2: the general circulation." *Scientific Report of the METRO-MED (EU-MAST III-ELOISE) project*. pp. 209-215.
- Kourafalou, V., J. Wang, T.N. Lee and L.J. Pietrafesa, 1983. "Circulation on the Southeast U.S. Continental Shelf." Univ. of Miami Technical Report UM-RSMAS 83009: 99 pp.

Community White papers

- De Mey, P., P. Craig, J. Kindle, Y. Ishikawa, R. Proctor, K. Thompson, J. Zhu et al. (including V. Kourafalou), 2007. Towards the assessment and demonstration of the value of GODAE results for coastal and shelf models and forecasting systems. Global Ocean data Assimilation Experiment (GODAE) Coastal and Shelf Seas Working Group (White paper, pp. 79). Available On Line, <http://godaie.org/modules/documents/documents/GODAE-CSSWG-paper-ed2.pdf>

Published Abstracts

- Kourafalou, V.H., Y. Androulidakis, M. Le Hénaff, H. Kang, O. Garcia, C. Hu, L. Hole and C. Wettre, 2017. River induced fronts and influence of shelf and mesoscale circulation on offshore removal of riverine waters: implications for hydrocarbon transport. *2017 Gulf of Mexico Oil Spill and Ecosystem Conference*, New Orleans, LA.

- Garcia-Pineda, O., C. Hu and V.H. Kourafalou, 2017. Tactical Oil Spill Observation with an Unmanned Aerial System. *Gulf of Mexico Oil Spill and Ecosystem Conference*, New Orleans, LA.
- Le Hénaff, M., F. Muller-Karger, V.H. Kourafalou, D. Otis and L. McEachron, 2017. Physical conditions associated with the coral mortality event of summer 2016 at the Flower Garden Banks National Marine Sanctuary in the Gulf of Mexico. *2017 Gulf of Mexico Oil Spill and Ecosystem Conference*, New Orleans, LA.
- Sun, S., C. Hu, O. Garcia and V.H. Kourafalou, 2017. Assessment of oil spill from the former Taylor platform in the Gulf of Mexico. *2017 Gulf of Mexico Oil Spill and Ecosystem Conference*, New Orleans, LA.
- Wettre, C., L. Hole, K. Dagestad, V.H. Kourafalou, O. Garcia, J. Kang, 2017. Modeling the drift and spread of oil slicks in the Northern Gulf of Mexico using SAR imagery and forcing from a high-resolution hydrodynamic model. *2017 Gulf of Mexico Oil Spill and Ecosystem Conference*, New Orleans, LA.
- Halliwell, G.R., M. Mehari, V.H. Kourafalou, R. Atlas, H. Kang, M. Le Hénaff and Y.S. Androulidakis, 2017. OSSE Evaluation of Rapid-Response Ocean Profile Surveys Prior to Hurricanes Edouard and Gonzalo. *American Meteorological Society annual meeting*, Seattle, WA.
- Kourafalou, V.H., Y. Androulidakis, G.R. Halliwell, H. Kang, M.F. Mehari and R.M. Atlas, 2016. Nature Run for the North Atlantic Ocean Hurricane Region: System Evaluation and Regional Applications. *American Geophysical Union Ocean Sciences meeting*, New Orleans, LA.
- Kourafalou, V.H., R.H. Smith, A. Valle-Levinson, M. Le Hénaff, H. Kang and Y. Androulidakis, 2016. Physical Processes Controlling Connectivity Among South Florida Coral Reefs and Pathways of Upstream River Influence. *International Coral Reef Symposium*, Honolulu, HI.
- Le Hénaff, M. and V.H. Kourafalou, 2016. Mississippi waters reaching South Florida reefs under no flood conditions: synthesis of observing and modeling system findings. *American Geophysical Union Ocean Sciences meeting*, New Orleans, LA.
- Halliwell, G.R., M. Mehari, J. Dong, V.H. Kourafalou, R. Atlas, H. Kang and M. Le Hénaff, 2016. OSSE Assessment of Ocean Observing Strategies to improve Coupled Tropical Cyclone Prediction. *American Meteorological Society annual meeting*, New Orleans, LA.
- Kang, H., V.H. Kourafalou, N. Perlin, M. Le Hénaff and J. Lamkin, 2016. High Resolution Forecasts in the Florida Straits: Predicting the Modulations of the Florida Current and Connectivity around South Florida and Cuba. *American Geophysical Union Ocean Sciences meeting*, New Orleans, LA.

- Reed, J., S. Farrington, J. Voss, V. Kourafalou, R. Smith, K. Spring and D. Hanisak, 2016. Resilience of a Unique Mesophotic Reef in the Gulf of Mexico, USA: A 30-year historic perspective of the coral communities at Pulley Ridge Mesophotic Coral Ecosystem. *International Coral Reef Symposium*, Honolulu, HI.
- Vaz, A., C.B. Paris, M.J. Olascoaga, V.H. Kourafalou, H. Kang and J.K. Reed, 2016. The perfect storm: match-mismatch of bio-physical events drives larval reef fish connectivity between Pulley Ridge and the Florida Keys. *International Coral Reef Symposium*, Honolulu, HI.
- Vaz, A., C.B. Paris, M.J. Olascoaga, V.H. Kourafalou, H. Kang and J.K. Reed, 2016. The perfect storm: match-mismatch of bio-physical events drives larval reef fish connectivity between Pulley Ridge and the Florida Keys. *American Geophysical Union Ocean Sciences meeting*, New Orleans, LA.
- Le Hénaff, M., V.H. Kourafalou, G.R. Halliwell, H.S. Kang, M. Mehari, Y.S. Androulidakis, R. Atlas, 2016. Regional ocean modeling in support of ecosystem studies around South Florida and in the greater Caribbean. *Annual Meeting of the South Florida Caribbean Cooperative Ecosystem Studies Unit (SFC CESU)*. Homestead, FL.
- Kourafalou, V.H., H. Kang, N. Perlin and M. Le Hénaff, 2015. A real-time, high resolution forecast system of connectivity between South Florida, Cuba and the Bahamas. *10th Congress of Marine Sciences, MARCUBA 2015*, Havana, Cuba. <http://www.congresomarcuba.com/>
- Smith, R.H., A. Valle-Levinson and V.H. Kourafalou, 2015. Current Observations at Pulley Ridge Mesophotic Reef: Results from a three-year time-series of moored ADCP data. *10th Congress of Marine Sciences, MARCUBA 2015*, Havana, Cuba. <http://www.congresomarcuba.com/>
- Halliwell, G.R., V.H. Kourafalou, Y.S. Androulidakis, H. Kang, M. Mehari, M. Le Hénaff and R. Atlas, 2015. Evaluation and Application of a Rigorously Validated Ocean OSSE System to Improve Ocean Model Initialization for Coupled Hurricane Prediction. *American Geophysical Union Meeting*, San Francisco, CA. <http://fallmeeting.agu.org/2015/>
- Kourafalou, V.H., G.R. Halliwell, Y. Androulidakis, H. Kang, M.F. Mehari, R.M. Atlas, 2015. Observing System Simulation Experiments in the North Atlantic Ocean hurricane region: system evaluation and regional applications. *GODAE OceanView Coastal Ocean and Shelf Seas Task Team 4th international workshop*, Lisbon, Portugal. <http://godaе-oceanview.org>
- Kourafalou, V.H., G.R. Halliwell, R.M. Atlas, H. Kang, M.F. Mehari, M. Le Hénaff, L.K. Shay, R. Lumpkin and G.J. Goni, 2015. North Atlantic OSSEs in support of improved hurricane forecasting: Nature Run evaluation. *American Meteorological Society 95th Annual Meeting*, Phoenix, AZ.

- Halliwell, R.M. Atlas, H. Kang, M.F. Mehari, M. Le Hénaff, L.K. Shay, R. Lumpkin and G.J. Goni, 2015. North Atlantic OSSEs in support of improved hurricane forecasting: Nature Run evaluation. *American Meteorological Society 95th Annual Meeting*, Phoenix, AZ.
- Halliwell, G.R., V.H. Kourafalou, R.M. Atlas, M.F. Mehari, H. Kang and M. Le Hénaff, 2015. North Atlantic OSSEs in support of improved hurricane forecasting: Impact of Ocean Observing System Enhancements. *American Meteorological Society 95th Annual Meeting*, Phoenix, AZ.
- Le Hénaff, M., G.R. Halliwell, V.H. Kourafalou, L.K. Shay and R. Atlas, 2015. Evaluation of impact of DWH rapid-response surveys on numerical forecasts using Observing System Simulation Experiments, *Gulf of Mexico Research Initiative Conference*, Houston, TX.
- Androulidakis Y., Krestenitis Y., Kourafalou V.H., 2015. Etesian Winds and Coastal Upwelling over the NE Aegean Sea: Monitoring and Modeling, *Aquatic Sciences Meeting: Global and Regional Perspectives - North Meets South*, ASLO, Granada, Spain.
- Androulidakis Y., Kourafalou V.H., 2015. On the interaction of Mississippi River waters with the Deepwater Horizon oil spill (Gulf of Mexico), *36th IAHR World Congress*, Delft, Netherlands.
- Hole, L.R., M.H. Ghani, N. Wienders, V.H. Kourafalou, I. Fer, H. Kang, K. Drushka and D. Peddie, 2015. Using the CMR Sailbuoy for ocean shelf measurements. *Geophysical Research Abstracts*, vol. 17, EGU2015-4605, European Geophysical Union Assembly, Vienna, Austria.
- Kourafalou, V.H. and Y.S. Androulidakis, 2014. Influence of the Loop Current System on the transport and fate of Mississippi River waters under flooding conditions: a nested modeling approach. *Ocean Sciences Meeting*, Honolulu, HI.
- Le Hénaff, M., G.R. Halliwell, V.H. Kourafalou, R. Atlas, 2014. Development of a Nature Run for a Gulf of Mexico OSSE system. *Ocean Sciences Meeting*, Honolulu, HI.
- Halliwell, Jr., G.R., V.H. Kourafalou, M. Le Hénaff, and R. Atlas, 2014: Development, validation, and regional applications of a new ocean OSSE system. *Ocean Sciences Meeting*, Honolulu, HI.
- Halliwell, Jr., G.R., V.H. Kourafalou, M. Le Hénaff, and R. Atlas, 2014: OSSE evaluation of rapid-response airborne ocean observing strategies in the Gulf of Mexico. *18th Conference on Integrated Observing and Assimilation Systems for the Atmosphere, Ocean, and Land Surface*, American Meteorological Society Annual Meeting, Atlanta, GA.
- Sponaugle, S., C.B. Paris, K.D. Walter, V.H. Kourafalou, E. D'Alessandro, 2014. Observed and modeled larval settlement of a reef fish to the Florida Keys. *Ocean Sciences Meeting*, Honolulu, HI.

Paris, C.B., D. Lindo-Atichati, Z. Aman, Le Hénaff, V.H. Kourafalou, 2014. Advances in modeling the transport and fate of subsea oil. Ocean Sciences Meeting, Honolulu, HI.

Le Hénaff, M., G.R. Halliwell, V.H. Kourafalou, R. Atlas, 2014. Development of a regional OSSE system for the Gulf of Mexico. *GODAE OceanView Coastal Ocean and Shelf Seas Task Team*, Rincon, Puerto-Rico. <http://godae-oceanview.org>

Le Hénaff, M, V.H. Kourafalou, G.R. Halliwell, R. Atlas, 2013. Impact of boundary conditions on high-resolution simulations in a western boundary current region: the Gulf of Mexico example. *GODAE OceanView Symposium*, Baltimore, USA. <http://godae-oceanview.org>

Wienders, N., L.R. Hole, M. Hassan, I. Fer and V.H. Kourafalou, 2013. Using the CMR Sailbuoy for verification of remote sensing measurements in the Northern Gulf of Mexico. EOS Transactions, American Geophysical Union Fall2013 meeting, San Francisco, CA. <http://fallmeeting.agu.org/2013/>

Kourafalou, V.H. and Y.S. Androulidakis, 2013. Did the Mississippi River plume influence the surface spreading of the Deepwater Horizon oil spill patch? *2013 Gulf of Mexico oil spill and ecosystem science conference*. New Orleans, LA. <http://2013program.gulfofmexicoconference.org/did-the-mississippi-river-plume-influence-the-surface-spreading-of-the-deepwater-horizon-oil-spill-patch/>

Lindo-Atichati, D. C.B. Paris, V.H. Kourafalou, M. Le Hénaff, 2013. Improving simulations of the subsea oil from the Macondo well blowout using a high-resolution application of the Hybrid Coordinate Ocean Model (HYCOM). *2013 Gulf of Mexico oil spill and ecosystem science conference*. New Orleans, LA. <http://2013program.gulfofmexicoconference.org/improving-simulations-of-the-subsea-oil-from-the-macondo-well-blowout-using-a-highresolution-application-of-the-hybrid-coordinate-ocean-model-hycom/>

Kourafalou, V.H., G. Halliwell, M. Le Hénaff, R. Atlas, H. Kang, 2013. Gulf of Mexico prediction and Observing System Simulation Experiments (OSSEs). *2nd International Coordination Workshop GODAE OceanView COSS-TT*, Lecce, Italy. <https://www.godae-oceanview.org/outreach/meetings-workshops/task-team-meetings/coss-tt-workshop-2013/abstracts/>

Kourafalou, V.H. and Y.S. Androulidakis, 2013. Transport and fate of river waters under flood conditions and rim current influence: the Mississippi River test case. *Geophysical Research Abstracts*, Vol. 15, EGU2013-11515.

Androulidakis, Y.S. Y.N. Krestenitis and V.H. Kourafalou, 2013. Black Sea and Mediterranean Sea interaction: influence of the North Aegean dynamics. *Geophysical Research Abstracts* Vol. 15, EGU2013-10782.

Kourafalou, V.H., 2012. Ocean OSSEs: Recent developments and future challenges. A21N-08 American Geophysical Union 2012 Fall Meeting, San Francisco, CA (Invited).

Halliwell, G.H., A. Srinivasan, V.H. Kourafalou, H. Yang, M. Le Hénaff and R. Atlas, 2012. Impact of Targeted Ocean Observations for Improving Ocean Model Initialization for Coupled Hurricane Forecasting. A23E-0283 American Geophysical Union 2012 Fall Meeting, San Francisco, CA.

Le Hénaff, M., V.H. Kourafalou, R. Lumpkin, 2012. Intensification of the Loop Current Frontal Eddies along the eastern edge of the Loop Current based on drifter data. 5th *Lagrangian Analysis and prediction of Coastal and Ocean Dynamics (LAPCOD)*, Miami Beach, FL. http://www.rsmas.miami.edu/LAPCOD/2012_Miami_Beach/abstracts/lapcod2012_A201.php

Kourafalou, V.H., H. Kang, P. Hogan, O.M. Smedstad, 2012. On the role of Loop Current eddies in altering the oil pathways during the Deepwater Horizon oil spill. *Ocean Sciences Meeting AGU/ASLO/TOS*, Salt Lake City, UT, <http://www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=10062>,

Androulidakis, Y. and V. H. Kourafalou, 2012. Parameterization of the Dardanelles outflow in the Aegean Sea from the Black Sea water budget. *Ocean Sciences Meeting AGU/ASLO/TOS*, Salt Lake City, UT, <http://www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=9993>.

Halliwell, G.R., V.H. Kourafalou, A. Srinivasan, M. Le Hénaff, H. Yang, D. Willey and R.M. Atlas, 2012. Development and evaluation of an ocean Observing System Simulation Experiment system for the Gulf of Mexico. 2012 *Ocean Sciences Meeting AGU/ASLO/TOS*, Salt Lake City, UT, <http://www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=11800>

Le Hénaff, M., V.H. Kourafalou, Y. Morel, A. Srinivasan, 2012. Intensification of the Loop Current frontal eddies in the Northern Gulf of Mexico: role of the topography. 2012 *Ocean Sciences Meeting AGU/ASLO/TOS, Salt Lake City, UT*, <http://www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=12348>.

De Mey, P., V. Kourafalou, R. He, A. Kurapov, 2012. Session overview: advances in coastal ocean modeling, analysis, and prediction. *Ocean Sciences Meeting AGU/ASLO/TOS*, Salt Lake City, UT, <http://www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=9901>.

Paris, C.B., M. Le Hénaff, Z. Aman, A. Suramianiam, J. Helgers, D.P. Wang, V.H. Kourafalou, A. Srinivasan, 2012. Three-dimensional evolution of the Macondo well blowout: a nested numerical approach to the transport of oil. 2012 *Ocean Sciences Meeting AGU/ASLO/TOS*, Salt Lake City, UT, <http://www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=12667>.

Kourafalou, V.H. and P. Hogan, 2012. Regional and coastal forecasting in the Gulf of Mexico with HYCOM. *1st International Coordination Workshop GODAE OceanView COSS-TT*. Miami, FL.

<https://www.godae-oceanview.org/outreach/meetings-workshops/task-team-meetings/coss-tt-workshop/abstracts/>

Halliwel, G.R., A. Srinivasan, M. Le Hénaff, D. Willey, V.H. Kourafalou, H. Yang and R.M. Atlas, 2012. Development and Calibration of a Rigorous Fraternal Twin Ocean Observing System Simulation Experiment System in the Gulf of Mexico. *92nd Annual Meeting of the American Meteorological Society*, New Orleans LA.

<http://ams.confex.com/ams/92Annual/webprogram/Paper201550.html>

Kourafalou, V.H., M. Le Hénaff, A. Srinivasan, G. Halliwel and R. Atlas, 2011. Data assimilative modeling and OSSEs experiments for the monitoring of the Loop Current frontal dynamics – Application to the Deepwater Horizon oil spill. *91st Annual Meeting of the American Meteorological Society*, Seattle, WA.

<http://ams.confex.com/ams/91Annual/webprogram/Paper185611.html>

Halliwel, G., O.M. Smedstad, P. Hogan, N. Shay, V.H. Kourafalou, M. Le Hénaff, A. Srinivasan, F. Marks, R. Atlas, 2011. OSE/OSSE Evaluation of the Impact of Targeted P3 Airborne Ocean Observations Obtained in Response to the Deepwater Horizon Oil Spill. *91st Annual Meeting of the American Meteorological Society*, Seattle, WA.

<http://ams.confex.com/ams/91Annual/webprogram/Paper185608.html>

Kang, H. and V.H. Kourafalou, 2011. Toward the real-time South Florida and Florida Straits (SFFS) system. *Layered Ocean Model Workshop, Miami, FL*. Available On Line

http://lom.rsmas.miami.edu/LOM_2011_program.pdf

Schiller, R.V., V.H. Kourafalou, P.J. Hogan and N. Walker, 2011. On the interactions between the Mississippi River plume and the Gulf of Mexico offshore circulation. *Layered Ocean Model Workshop, Miami, FL*. Available On Line

http://lom.rsmas.miami.edu/LOM_2011_program.pdf

Le Hénaff, M., V.H. Kourafalou, A. Srinivasan and G. Halliwel, 2011. Impact of frontal eddy dynamics on the Loop Current variability during free and data assimilative HYCOM simulations. *Layered Ocean Model Workshop, Miami, FL*. Available On Line

http://lom.rsmas.miami.edu/LOM_2011_program.pdf

Kourafalou, V.H., 2010. Physical factors driving the oceanographic regime around the Florida Keys. *Florida Keys Marine Ecosystem Conference*, Duck Key, FL. (INVITED)

<http://www.conference.ifas.ufl.edu/floridakeys/Program%20Book.pdf>, p. 100.

Kourafalou, V.H., H. Kang, A. Mariano, E. Ryan, M. Le Henaff, g. Halliwel, P. Hogan and O.M. Smedstad, 2010. Modeling the Pathways of Particles Related to the Deepwater Horizon Oil Spill Accident toward the Florida Keys. *Florida Keys Marine Ecosystem Conference*, Duck Key, FL. <http://www.conference.ifas.ufl.edu/floridakeys/Program%20Book.pdf>, p. 99.

Bulhoes de Morais, C.R., V.H. Kourafalou and H. Kang, 2010. Eddy variability along the Florida Keys, 2010. *Florida Keys Marine Ecosystem Conference*, Duck Key, FL.

<http://www.conference.ifas.ufl.edu/floridakeys/Program%20Book.pdf>, p. 27.

Paris, C.B., A. Kough, H. Kang, V.H. Kourafalou, A. Srinivasan and S. Sponaugle, 2010. Persistence of Dispersal Kernel Features in the Florida Keys under Average and Extreme Climatic Conditions. *Florida Keys Marine Ecosystem Conference*, Duck Key, FL.

<http://www.conference.ifas.ufl.edu/floridakeys/Program%20Book.pdf>, p. 132.

Sponaugle, S., R.K. Cowen, C. Paris, V.H. Kourafalou, K. Walter, K. Shulzitski, M. Hauff, E. D'Alessandro and C. Guigand, 2010. Population Connectivity of Coral Reef Fishes along the Florida Keys Shelf: An Integrated Field and Modeling Analysis. *Florida Keys Marine Ecosystem Conference*, Duck Key, FL.

<http://www.conference.ifas.ufl.edu/floridakeys/Program%20Book.pdf>, p. 163.

Le Hénaff, M., V.H. Kourafalou and H. Kang, 2010. Toward assimilative capabilities in the presence of tidal flows, complex topography and boundary currents. *4th Coastal Altimetry Workshop*, Porto, Portugal. <http://www.coastalaltimetry.org/>, ses. 7(02).

Kourafalou, V.H., Y.S. Androulidakis, and Y.N. Krestenitis, 2010. Investigating the circulation impacts of the Dardanelles flow exchange with the North Aegean Hybrid Coordinate Ocean Model. *Rapp. Comm. int. Mer Medit.*, 39 (published by the Mediterranean Science Commission).

Kourafalou, V.H., K. Tsiaras, D. Raitzos and Y.S. Androulidakis, 2010. Advances in the Northeastern Mediterranean Sea: complex pathways of the waters of Black Sea origin through the Aegean Sea. *Rapp. Comm. int. Mer Medit.*, 39 (published by the Mediterranean Science Commission).

Le Hénaff, M., V.H. Kourafalou, A. Srinivasan and R. Atlas, 2010. Loop Current observing system assessment using OSSEs. 14th Symposium on Integrated Observing and Assimilation Systems for the Atmosphere, Oceans, and Land Surface (IOAS-AOLS), session 5B.6, Atlanta, GA, *Amer. Meteor. Soc.*, [http://ams.confex.com/ams/90annual/techprogram/paper_164970.htm].

Halliwell, G. R. Atlas, C. Thacker, H. Yang, V. Kourafalou and M. Le Hénaff, 2010. The Impact of Ocean Model Limitations on Observing System Simulation Experiments. 14th Symposium on Integrated Observing and Assimilation Systems for the Atmosphere, Oceans, and Land Surface (IOAS-AOLS), session 5B.6, Atlanta, GA, *Amer. Meteor. Soc.*, [http://ams.confex.com/ams/90annual/techprogram/paper_165296.htm].

Kourafalou, V.H. and H. Kang, 2010. Influence of Cuban eddies on the meandering of the Florida Current. *Eos Trans. AGU*, 91(26), *Ocean Sci. Meet. Suppl.*, Abstract PO33A-06.

- Kourafalou, V.H., M. Le Hénaff, and A. Srinivasan, 2010. Enhancing predictability of the Loop Current variability using a regional Gulf of Mexico model. *Eos Trans. AGU, 91(26), Ocean Sci. Meet. Suppl.*, Abstract PO33A-03.
- Le Hénaff, M., V.H. Kourafalou, A. Srinivasan and R. Atlas, 2010. Observing System Simulation Experiment assessment of a Loop Current observing system. *Eos Trans. AGU, 91(26), Ocean Sci. Meet. Suppl.*, Abstract PO25E-04.
- Schiller, R.V., V.H. Kourafalou, P.J. Hogan and W.J. Teague, 2010. The Impact of wind-driven and eddy-driven dynamics over the transport and mixing of the Mississippi River waters. *Eos Trans. AGU, 91(26), Ocean Sci. Meet. Suppl.*, Abstract PO35A-08.
- Paris C.B., V.H. Kourafalou, H. Kang, D. Holstein and S. Sponaugle, 2010. Transient and permanent dispersal kernel features in the Florida Keys, indicator of population resilience. *Eos Trans. AGU, 91(26), Ocean Sci. Meet. Suppl.*, Abstract PO33A-07.
- Androulidakis, Y.S., V.H. Kourafalou, A. Wallcraft, C.A. Blain, D. Raitsos and K. Tsiaras, 2010. Buoyant outflow pathways connecting basins through straits: a multi-nested approach. *Eos Trans. AGU, 91(26), Ocean Sci. Meet. Suppl.*, Abstract PO35A-05.
- Sponaugle, S., R.K. Cowen, C.B. Paris, V.H. Kourafalou, K. Shulzitski, M. Hauff, E. D'Alessandro, K. Walter, C. Guigand, 2010. Linkages between Larvae and Recruitment of Coral Reef Fishes along the Florida Keys Shelf: An Integrated Field and Modeling Analysis of Population Connectivity in a Complex System. *Eos Trans. AGU, 91(26), Ocean Sci. Meet. Suppl.*, Abstract IT43B-01.
- Kourafalou, V.H., Y.S. Androulidakis, and Y.N. Krestenitis, 2010. Investigating the circulation impacts of the Dardanelles flow exchange with the North Aegean Hybrid Coordinate Ocean Model. *Invited at the special session in memory of Prof. Alan Robinson, 39th Congress of the Mediterranean Science Commission, CIESM, Venice, Italy.*
- Kourafalou, V.H., K. Tsiaras, D. Raitsos and Y.S. Androulidakis, 2010. Advances in the Northeastern Mediterranean Sea: complex pathways of the waters of Black Sea origin through the Aegean Sea. *39th Congress of the Mediterranean Science Commission, CIESM, Venice, Italy.*
- Kourafalou, V.H., Y.S. Androulidakis, D. Raitsos, K. Tsiaras, A. J. Wallcraft and O.M. Smedstad, 2009. Modeling the influence of the Dardanelles outflow on the Aegean Sea dynamics. Layered Ocean Model Workshop, Miami, FL. Available On Line http://lom.rsmas.miami.edu/2009/abstracts/lom2009_009.html
- Kang, H. and V.H. Kourafalou, 2009. Simulating the variability of Florida Current frontal eddies. Layered Ocean Model Workshop, Miami, FL. Available On Line http://lom.rsmas.miami.edu/2009/abstracts/lom2009_023.html

Le Hénaff, M., V.H. Kourafalou and A. Srinivasan, 2009. Enhancing predictability of the Loop Current variability using Gulf of Mexico Hycom. Layered Ocean Model Workshop, Miami, FL. Available On Line http://lom.rsmas.miami.edu/2009/abstracts/lom2009_012.html

Schiller, R.V., V.H. Kourafalou, G. Halliwell, P.J. Hogan, O.M. Smedstad, 2009. The Dynamics of the Mississippi River Plume and Interactions with Coastal and Offshore Flows in the Northern Gulf of Mexico. Layered Ocean Model Workshop, Miami, FL. Available On Line http://lom.rsmas.miami.edu/2009/abstracts/lom2009_011.html

Paris, C.B., A. Srinivasan, V.H. Kourafalou, S. Sponaugle and R.K. Cowen, 2009. The Connectivity Modeling System: a modeling system to measure dispersal characteristics and marine population connectivity. ASLO Aquatic Sciences Meeting 2009, Book of Abstracts, p. 200. Available On Line <http://www.aslo.org/nice2009/>

Raitsos, D.E., V.H. Kourafalou, K. Tsiaras and Y.S. Androulidakis, 2009. Assessing the spatiotemporal distribution of chlorophyll-a in relation to environmental parameters: application on the Northern Aegean Sea. ASLO Aquatic Sciences Meeting 2009, Book of Abstracts, p. 216. Available On Line <http://www.aslo.org/nice2009/>

Sponaugle, S., R.K. Cowen, C. Paris, V.H. Kourafalou, K. Shulzitski, M. Hauff, K. Walter, C. Guigand, 2009. Linkages between larvae and recruitment of coral reef fishes along the Florida Keys shelf: an integrated field and modeling analysis of population connectivity in a complex system. *33rd Annual Larval Fish Conference*
In conjunction with the American Society of Ichthyologists and Herpetologists, Portland, OR, http://www.larvalfishcon.org/Conf_home.asp?ConferenceCode=33rd

Kourafalou, V.H., G. Halliwell, P. Hogan, H. Kang, R. Schiller and C. Paris, 2008. Modeling circulation patterns that influence connectivity of remote ecosystems in the Wider Caribbean Region and the Gulf of Mexico *Eos Trans. AGU*, 89(23), *Jt. Assem. Suppl.*, Abstract OS34A-05.

Kourafalou, V.H., G. Peng and H. Kang, 2008. Coastal HYCOM modeling in South Florida: evaluation of GODAE boundary conditions, resolution and forcing. ASLO-AGU Ocean Sciences meeting, Orlando, FL. Available On Line, <http://aslo.org/orlando2008/files/2008osm-abstracts.pdf>, p.216.

Kang, H., V.H. Kourafalou, G. Peng and C. Paris, 2008. Interdisciplinary Modeling Support to CERP with the Coastal South Florida HYCOM System. ASLO-AGU Ocean Sciences meeting, Orlando, FL. Available On Line, <http://aslo.org/orlando2008/files/2008osm-abstracts.pdf>, p.199.

Peng, G., Z. Garraffo, G.R. Halliwell, O. M. Smedstad, C. S. Meinen and V.H. Kourafalou, 2008. Variability of the Florida Current Transport at 27°N. ASLO-AGU Ocean Sciences meeting,

- Orlando, FL. Available On Line, <http://aslo.org/orlando2008/files/2008osm-abstracts.pdf>, p.316.
- Schiller, R.V., V.H. Kourafalou and P. Hogan, 2008. River plume experiments with the Hybrid Coordinate Ocean Model: application to the Mississippi River discharge. ASLO-AGU Ocean Sciences meeting, Orlando, FL. Available On Line, <http://aslo.org/orlando2008/files/2008osm-abstracts.pdf>, p.360.
- Kourafalou, V.H., H. Kang, C. Paris, C. Hu, P.J. Hogan and O.M. Smedstad, 2008. GODAE boundary condition effects on the modeling of biophysical coastal processes around the Florida Keys Reef Tract, *Global Ocean Data Assimilation Experiment Final Symposium*, Nice, France. 5(9), Available On Line, <http://www.godae.org/PA-authors-I-K.html#9>
- Schiller, R.V., V. H. Kourafalou, P. J. Hogan, O. M. Smedstad, G. Halliwell and G. Goni, 2008. On the use of GODAE and satellite products to improve coastal simulations on the Northern Gulf of Mexico, *Global Ocean Data Assimilation Experiment Final Symposium*, Nice, France. 5(13), Available On Line, <http://www.godae.org/PA-authors-I-K.html#13>
- Halliwell, G.R., V.H. Kourafalou, A. Barth, P. Hogan, O.M. Smedstad, R.H. Weisberg, L.K. Shay, H. Hurlburt, J. Cummings, H. Kang, R. Schiller, 2008. Impact of GODAE products on nested simulations of the Florida and Northern Gulf of Mexico coastal ocean *Global Ocean Data Assimilation Experiment Final Symposium*, Nice, France. 4(130), Available On Line, <http://www.godae.org/PA-authors-H.html#130>
- Triantafyllou, G., K. Tsiaras, G. Korres, G. Petihakis, V.H. Kourafalou, D. Raitsos and A. Pollani, 2008. Ecosystem modeling of the Mediterranean Sea. A study of the variability of the North Aegean using a very high resolution ecosystem model. *Geophysical Research Abstracts*, Vol. 10, EGU2008-A-10552, 2008, SRef-ID: 1607-7962/gra/EGU2008-A-10552, EGU General Assembly 2008.
- Kourafalou, V.H., K.P. Tsiaras, Y.S. Androulidakis, D. Raitsos, A. Wallcraft, O.M. Smedstad and P.M. Poulain, 2008. On the Influence of the Dardanelles Outflow on Biophysical North Aegean Sea Nested Simulations. *EOS Transactions, American Geophysical Union*, 89(53), Fall Meet., Suppl., Abstract OS41A-1209.
- Schiller, R.V., V.H. Kourafalou and P.J. Hogan, 2008. Modeling the Interaction of Loop Current Dynamics with Coastal Processes on the Northern Gulf of Mexico. *EOS Transactions, American Geophysical Union*, 89(53), Fall Meet, Suppl., Abstract OS41A-1199.
- Kang, H., V.H. Kourafalou, P.J. Hogan and O.M. Smedstad, 2008. Simulating coastal to offshore interactions around the South Florida coastal seas and implications on management issues. *EOS Transactions, American Geophysical Union*, 89(53), Fall Meet. Suppl., Abstract OS41A-1208.

- Halliwell, G.R., V.H. Kourafalou, R.H. Weisberg, W.J. Teague and R.H. Smith, 2008. Impact of Initial Conditions Provided by GODAE Products on the Simulated Coastal Ocean Response to Hurricanes. *EOS Transactions, American Geophysical Union*, 89(53), Fall Meet. Suppl., Abstract OS52B-09.
- Paris, C., A. Srinivasan, V.H. Kourafalou, S. Sponaugle and R. Cowen, 2008. BOLTS: a Biophysical Larval Tracking System for Measuring Dispersal Characteristics and Marine Population Connectivity. *EOS Transactions, American Geophysical Union*, 89(53), Fall Meet, Suppl., Abstract OS52B-10 INVITED.
- Kourafalou, V.H., G. Peng and H. Kang, 2007. Nested simulations in the South Florida coastal seas with the HYCOM model. 2007 Layered Ocean Model Workshop, Bergen, Norway. Available On Line http://lom.rsmas.miami.edu/2007/abstracts/lom2007_007.html
- Halliwell, G., V.H. Kourafalou and Z. Garraffo, 2007. CARIB-HYCOM: Progress and Plans. 2007 Layered Ocean Model Workshop, Bergen, Norway. Available On Line http://lom.rsmas.miami.edu/2007/abstracts/lom2007_025.html
- Kourafalou, V.H., G. Peng and H. Kang, 2007. Evaluation of GODAE boundary condition effects in South Florida nested simulations. 2007 GODAE Coastal Workshop "Assessing the value of GODAE products in coastal and shelf seas". Available On Line <http://cobs.pol.ac.uk/cobs/CSSWG/abstracts/V-Kourafalou-abs.html>
- Schiller, R.V., and V.H. Kourafalou, 2007. River plume experiments with HYCOM in an idealized basin. 11th HYCOM meeting, Stennis Space Center, MS. Available On Line http://hycom.rsmas.miami.edu/meetings/eleven/thu/3_Schiller.pdf
- Kourafalou, V.H. and G. Peng, 2007. Evaluation of the effects of boundary conditions and atmospheric forcing in the SoFLA-HYCOM domain. 11th HYCOM meeting, Stennis Space Center, MS. Available On Line http://hycom.rsmas.miami.edu/meetings/eleven/wed/am/6_Kourafalou.pdf
- Kourafalou, V.H., G. Garraffo, G. Halliwell, L. Cherubin, C. Paris and A. Griffa, 2007. The Wider Caribbean Region CARIB-HYCOM domain: preliminary results from nested simulations. 11th HYCOM meeting, Stennis Space Center, MS. Available On Line http://hycom.rsmas.miami.edu/meetings/eleven/wed/am/2_Kourafalou.pdf
- Kang, H. and V.H. Kourafalou, 2007. Preliminary results from the Florida Keys HYCOM model. 11th HYCOM meeting, Stennis Space Center, MS. Available On Line http://hycom.rsmas.miami.edu/meetings/eleven/wed/am/6_Kourafalou.pdf
- Schiller, R.V. and V.H. Kourafalou, 2007. On the transport of river induced low salinity waters on the SoFLA-HYCOM domain. 10th HYCOM meeting, Tallahassee, FL. Available On Line <http://hycom.rsmas.miami.edu/meetings/ten/Schiller.pdf>

- Peng, G., V.H. Kourafalou, R.V. Schiller and T.N. Lee, 2006. Inter-Annual Simulations with SoFLA-HYCOM and Comparison to in-situ Data. 10th HYCOM meeting, Tallahassee, FL. Available On Line <http://hycom.rsmas.miami.edu/meetings/abstracts10.html#Peng> and <http://hycom.rsmas.miami.edu/meetings/ten/Peng.pdf>
- Kourafalou, V.H., R.S. Balotro, T.M. Chin, A. Srinivasan, A.J. Wallcraft, C.B. Paris, T.N. Lee, P.B. Ortner and E.M. Johns, 2006. Interdisciplinary Nested Simulations with the South Florida Regional SoFLA-HYCOM Model. EOS Transactions AGU, 87(36), Ocean Sci. Meet. Suppl., Abstract OS26N.
- Smith, R.H., P.B. Ortner, V.H. Kourafalou, T.N. Lee, E.M. Johns, S.R. Cummings, C.R. Kelble and C. Hu, 2006. Post-Katrina Pollutant and Contaminant Pathways: Downstream Transport or Local Retention? EOS Transactions AGU, 87(36), Ocean Sci. Meet. Suppl., Abstract OS16H-18.
- Johns, E.M., T.N. Lee, P.B. Ortner, V.H. Kourafalou, R.H. Smith and C.R. Kelble, 2006. The Evolution and Future of the South Florida Regional Observing System (SF-ROS). EOS Transactions AGU, 87(36), Ocean Sci. Meet. Suppl., Abstract OS15J.
- Srinivasan, A., T.M. Chin, E.P. Chassignet and V.H. Kourafalou, 2006. Sampling Strategies for Assimilation of Altimeter data into a high Resolution HYCOM of the Gulf of Mexico using a Reduced Order Information Filter. EOS Transactions AGU, 87(36), Ocean Sci. Meet. Suppl., Abstract OS26O.
- Kourafalou, V.H., R.S. Balotro, R. Schiller, T.N. Lee, E.M. Johns and J. Hamrick, 2006. SoFLA-HYCOM simulations in support of Florida Bay modeling. 2006 Layered Ocean Model Workshop, Miami, FL. Available On Line <http://lom.rsmas.miami.edu/2006/abs06/kourafalou.html>
- Kourafalou, V.H., R.S. Balotro and A. Wallcraft, 2005. Inter-annual simulation with the SoFLA-HYCOM (South Florida HYCOM). 9th HYCOM meeting, Miami, FL. Available On Line <http://hycom.rsmas.miami.edu/meetings/agenda9.html>
- Staneva, J., V.H. Kourafalou, E.V. Stanev and K.P. Tsiaras, 2006. The response of the Black Sea shelf ecosystem to anthropogenic forcing, Geophysical Research Abstracts, Vol. 8, 05255 2006, *EGU Joint Assembly*, Vienna, Austria.
- Kourafalou, V.H., R. Balotro and A. Wallcraft, 2005. Inter-annual simulation with the South Florida HYCOM nested model. In: *Layered Ocean Models meeting*, Miami, FL. Available: <http://lom.rsmas.miami.edu/2005/abs05/kourafalou.html>

- Kourafalou, V.H. and R.S. Balotro, 2005. Inter-annual simulation with the South Florida HYCOM nested model. 2006 Layered Ocean Model Workshop, Miami, FL. Available On Line <http://lom.rsmas.miami.edu/2005/abs05/kourafalou.html>
- Staneva, V.H. Kourafalou and K. Tsiaras, 2005. The response of the Northwestern Black Sea shelf ecosystem to nutrient loading and climate changes. *EGS XXVIII General Assembly*, Vienna, Austria.
- Sofianos, S., N. Skliris, V. Vervatis, D. Olson, V. Kourafalou, A. Lascaratos and W. Johns, 2005. On the Forcing Mechanisms of the Aegean Sea Surface Circulation. *EGS XXVIII General Assembly*, Vienna, Austria.
- Kourafalou, V.H., R.S. Balotro, A. Wallcraft and T. Townsend, 2004. Inter-annual simulation with the South Florida HYCOM nested model. 2004 Layered Ocean Model Workshop, Miami, FL. Available On Line http://lom.rsmas.miami.edu/2004/abstracts/html_agen/abstracts46.html
- Kourafalou, V.H., R.S. Balotro, A. Wallcraft and T. Townsend, 2004. Perpetual year simulation with the IAS-South Florida regional HYCOM nest. 8th HYCOM meeting, Miami, FL. Available On Line <http://hycom.rsmas.miami.edu/meetings/abstracts8.html>
- Staneva, J., V.H. Kourafalou, E. Stanev and K. Tsiaras, 2004. Ecosystem response to nutrient loading and climate changes: a biophysical model. *European Geosciences Union General Assembly, Nice, France*. EGU04-A-06728.
- Kourafalou, V.H., D. Olson, W. Johns, H. Kontoyiannis and V. Zervakis, 2003. Structure of flows in the Northern Aegean Sea from a pilot drifter array. *Geophysical Research Abstracts*, vol. 5, 07767, *EGS-AGU-EUG Joint Assembly*.
- Staneva, J., V.H. Kourafalou and K. Tsiaras, 2003. Ecosystem response to nutrient loading and climate changes: a case study for the Black Sea. vol.5, 08586, *EGS-AGU-EUG Joint Assembly*.
- Kourafalou, V.H. and T.N. Lee, 2003. On the development of a regional hydrodynamic model around Florida Bay and the Florida Keys. *Joint Conference on the Science and Restoration of the Greater Everglades and Florida Bay ecosystem*, Palm Harbor, Florida, pp. 51-52.
- Williams, E., T.N. Lee and V.H. Kourafalou, 2003. Mean and Seasonal Surface Current Patterns in South Florida Coastal Seas from Drifter Trajectories. *Joint Conference on the Science and Restoration of the Greater Everglades and Florida Bay Ecosystem*. Palm Harbor, Florida, pp. 71-72.
- Kourafalou, V.H., R.S. Balotro, A. Wallcraft and T. Townsend, 2003. Initial progress on the South Florida Regional Model simulations. 7th HYCOM Consortium meeting, NCEP, Camp Springs, MD.

- Kourafalou, V.H., J.V. Staneva and K. Tsiaras, 2003. Loading and climate changes: a case study for the Black Sea. *2003 EGS-AGU-EUG Joint Assembly*, Nice, France.
- Papadopoulos, V., A. Karageorgis, A. Daviddof, C. Anagnostou, K. Tsiaras, V. Kourafalou, 2003. Hydrology, circulation and particular matter distribution patterns in the Danube Delta Sea area, during early autumn 2002. *International Conference on Scientific and Policy Challenges towards an Effective Management of the Marine Environment*. Varna, Bulgaria. <http://www.io-bas.bg/cesum-bs/progr.htm>
- Staneva, J., V.H. Kourafalou, K. Tsiaras and E.V. Stanev, 2003. Eutrophication related changes in the Black Sea ecosystem studied by a coupled physical-ecological model, [35th International Liège Colloquium on Ocean Dynamics](#), Dying and Dead Seas, Liège, Belgium.
- Kourafalou, V.H. and J.V. Staneva, 2002. Modeling the influence of Danube River nutrients on the Northwest Black Sea shelf ecosystem. *EOS. Trans. AGU, 83(4), Ocean Sciences Meet. Suppl., Abstract OS22C-179, 2002.*
- Lee, T.N., L. Johns, V.H. Kourafalou, E. Williams and R. Smith, 2002. On the processes linking Florida Bay to South Florida coastal seas. *EOS. Trans. AGU, 83(4), Ocean Sciences Meet. Suppl., Abstract OS32D-15, 2002.*
- Staneva, J., E. Stanev and V.H. Kourafalou, 2002. Modelling the response of the northwestern Black Sea shelf ecosystem to the atmospheric conditions and the Danube river discharge. EGS02-A-01200, *EGS XXVII General Assembly*, Nice, France.
- Kourafalou, V.H. and K.A. Barbopoulos, 2001. A study of the North Aegean Sea circulation with a high resolution nested model. *XXVII Conference of the European Geophysical Society, Geophysical Research Abstracts, GRA3, 3512.*
- Savvidis, Y.G., C.G. Koutitas, Y.N. Krestenitis and V.H. Kourafalou, 2001. Stochastic model simulations on the transport of river-borne sediment particles. *XXVII Conference of the European Geophysical Society, Geophysical Research Abstracts, GRA3, 3531.*
- Staneva, J.V., Stanev, E.V., E. Sokolova and V.H. Kourafalou, 2001. Interannual and decadal variability in estuarine basins triggered by air-sea heat exchange. A case study for the Black Sea. *2001 Joint Assemblies of IAPSO/IABO "An Ocean Odyssey,"* p. 184.
- Estournel, C., V.H. Kourafalou and P. Marsailex, 2000. Modelling of the particulate transport on two Mediterranean continental shelves. *XXVI Conference of the European Geophysical Society, Geophysical Research Abstracts, v.2, p.151.*
- Kourafalou, V.H., 1997. The Po River plume: a 3-D model process oriented study. *Ann. Geophys.*, 15, (Suppl. II), C386.

- Zavatarelli, M., V.H. Kourafalou, N. Pinardi, A. Maggiore and G.L. Mellor, 1997. On the mechanism of density compensation in the Western Adriatic Sea Coastal Current (WACC). *Ann. Geophys.*, 15, (Suppl. II), C385.
- Kourafalou, V.H. (1997). River plumes on Mediterranean shelves: model studies for the Po River (North Adriatic Sea) and the Axios River (North Aegean Sea). *Mediterranean Sea Modelling (MEDMOD)*, Villefranche-Sur-Mer, France, p. 19.
- Kourafalou, V.H., L.-Y. Oey and T.N. Lee, 1994. On the offshore removal of coastal low-salinity waters of river origin: a realistic numerical simulation. *EOS Transactions American Geophysical Union*, 75(3), p.105.
- Kourafalou, V.H., L.-Y. Oey, T.N. Lee and J.D. Wang, 1991. Modelling the transport of freshwater discharge across the Southeast U.S. Continental Shelf. *EOS Transactions American Geophysical Union*, 72(51), p.59.
- Kourafalou, V., J.D. Wang and T.N. Lee, 1986. Modelling the effect of the river discharge on the dynamics of the Southeast U.S. Continental Shelf. *EOS Transactions American Geophysical Union*, 67(44), p.1041.
- Kourafalou, V., T.N. Lee and J.D. Wang, 1984. Modelling wind-driven transports on monthly and seasonal scales over the South Atlantic Bight shelf. *EOS Transactions American Geophysical Union*, 64(52), p.1093.
- Kourafalou, V., J.D. Wang and T.N. Lee, 1982. Modelling of winter circulation on the Southeast U.S. Continental Shelf. *EOS Transactions American Geophysical Union*, 63(18), p.357.
- Kourafalou, V., J.D. Wang and T.N. Lee, 1982. Modelling of wind and tidal flow on the Southeast U.S. Continental Shelf. *EOS Transactions American Geophysical Union*, 63(45), p.983.

SERVICE

University Committee and Administrative Responsibilities (*University of Miami*)

Director (UM/RSMAS component), Joint NOAA–AOML and UM–RSMAS Ocean Modeling and OSSE* Center (OMOC) – 2010-current.

(*Observing System Simulation Experiments)

Director, UM diversity program “SEEDS: A Seed for success” (2017-current)

Deputy Director, UM diversity program “SEEDS: A Seed for success” (2016)

Chair, RSMAS Diversity, Equity and Inclusion Committee (2012-current)

Chair, UM Faculty Senate Women and Minorities Committee (2010-2012).

Member, UM Retirement Benefits Committee (current)

Member, UM Faculty Senate Women and Minorities Committee (2008-2013).

Member, UM Center for Computational Science Power5 Usage Committee (2008-2009).

Community Activities (*non-University of Miami*)

Professional Leadership - International

co-Chair, *Global Ocean Data Assimilation Experiment (GODAE) OceanView (GOV)*, Coastal and Shelf Seas Task Team (2009-current).

Member, *Global Ocean Data Assimilation Experiment (GODAE) OceanView (GOV) Science Team* (2009-current).

Member, *Global Ocean Data Assimilation Experiment (GODAE) OceanView (GOV) Observing System Evaluation Task Team* (2009-current).

Co-chair of the scientific and local organizer committee for the 5th *International Coordination Meeting on Coastal and Shelf Seas and the ARCOM (Altimetry for Coastal and Regional Models) Meeting*, hosted by the University of Cape Town, the Nansen-Tutu Center and the South African Environmental Observation Network (April 2017).

Member, scientific Committee of the 10th *International Coastal Altimetry Workshop*. Florence, Italy (February 2017).

Member, scientific Committee of the 9th *International Coastal Altimetry Workshop*. Reston, VA (October 2015).

Member, *Task Team for integrating Marine Meteorological and Oceanographic Services (MOWIS)* of the World Meteorological Organization and UNESCO’s Intergovernmental Oceanographic Commission Joint Technical Commission for Oceanography and Marine Meteorology (JCOMM), 2016-current.

Co-chair of the scientific and local organizer committee for the 4th *International Coordination Workshop on Coastal and Shelf Seas and the ARCOM (Altimetry for Coastal and Regional Models) Pilot Workshop*, hosted by the Instituto Superior Técnico, Lisbon, Portugal (September 2015).

Co-chair of the scientific and local organizer committee for the 3rd *International Coordination Workshop on Coastal and Shelf Seas*, hosted by the Univ. of Puerto Rico and the Caribbean Coastal Ocean Observing System, CariCOOS, at Rincon, Puerto Rico (January 2014).

Member, scientific and local organizing committee, *Ocean Data Assimilation Experiment (GODAE) OceanView (GOV) Symposium on International Operational Oceanography*. NOAA Center for Weather and Climate Prediction (NOAA-NCWCP), Washington DC (November 2013).

Selected by the Hellenic Quality Assurance and Accreditation Agency (HQAA) to participate in the External Evaluation Committee (EEC) of the Department of Marine Sciences of the University of the Aegean, Greece (December 2013).

Co-chair of the scientific and local organizer committee for the 2nd *International Coordination Workshop on Coastal and Shelf Seas*, hosted by the Euro-Mediterranean Center for Climate Change / Coastal Studies Institute, Lecce, Italy (February 2013).

Chair of the scientific and local organizer committee for the 1st *International Coordination Workshop on Coastal and Shelf Seas*, hosted by UM/RSMAS, Miami, FL (January 2012).

Member, scientific committee of MyOcean Science Days 2014, Toulouse, France.

Member, scientific Committee of the 8th *International Coastal Altimetry Workshop*. Constanz, Germany (October 2014).

Member, Scientific Committee of the 7th *International Coastal Altimetry Workshop*. Boulder, CO (October 2013).

Member, Scientific Committee of the 6th *International Coastal Altimetry Workshop*. Riva del Garda, Italy (September 2012).

Chair, session on Synergy with Models, 6th *International Coastal Altimetry Workshop*. Riva di Garda, Italy (September 2012).

Chair, session on Application Highlights, 5th *international Coastal Altimetry workshop*, San Diego, CA (2011).

Member, Global *Ocean Data Assimilation Experiment (GODAE) Coastal and Shelf Seas Working Group* (2007-2009).

Affiliate member, *United Nations Environment Programme/Caribbean Environment Programme (UNEP/CEP)* for Marine Mammals (2012-current).

Member of the Scientific Program Committee for *BIONATURE 2013, International Conference on Biodiversity and Invasion Control*, Lisbon, Portugal (2013).

Member of the Scientific Program Committee for *BIONATURE 2012, International Conference on Bioenvironment, Biodiversity and Renewable Energies*, St. Maarten, Netherlands (2012).

Member of the Scientific Program Committee for *BIONATURE 2011, International Conference on Bioenvironment, Biodiversity and Renewable Energies*, Venice, Italy (2011).

Member of the Scientific Program Committee for *BIONATURE 2010, International Conference on Biodiversity and Invasion Control*, Cancun, Mexico (2010).

Chair, session TS34 (oral): Environmental Hydraulics of Coastal Waters, *6th International Symposium on Environmental Hydraulics*, Athens, Greece (2010).

Member, Greek Ministry of Education ARISTEIA panel (2013).

Member, Greek Ministry of Education HERAKLITOS panel (2010-2011).

Scientific Task Leader (Physical and Ecosystem Modeling), EU-DANUBS (Nutrient Management in the Danube Basin and its Impact on the Black Sea) and liaison with the International Commission for the Protection of the Danube River (ICPDR) (2002-2006).

Chair, Physical and Ecosystem Modeling, *International Workshop on the DANUBS synthesis* (2006).

Member, *EuroGOOS (European Global Ocean Observing System)* Science Advisory Group (1997-1998).

Member, *MedGOOS (Mediterranean Global Ocean Observing System)* Constitution Drafting Group (1996-1997).

Professional Leadership - National

Member of the external Science Advisory Group, *Weather and Advection Model for Oil Spill Tracking (WAMOST)*, project funded by the Bureau of Safety and Environmental Enforcement (2012-2015).

Organizer and local host for the *Workshop on Hydrodynamic Modeling in Support of Potential Oil Spills in SE Florida*, a partnership of Florida Institute of Oceanography Universities, the U.S. Coast Guard and NOAA (Office of Response and Restoration and AOML), Miami, FL (October 2012).

Member, NOAA National Resource Damage Assessment (NRDA) Water Column TWG (Technical Working Group) (2011-2012).

Chair, session 6: Advances in Coastal Ocean Modeling, Analysis, and Prediction (4 oral and 2 poster components), *AGU/TOS/ASLO Ocean Sciences Meeting*, Salt Lake City, UT (2012).

Chair, session PO05 (2 oral and 2 poster sessions): Advances in Coastal Ocean Prediction: Nested Modeling, *AGU 2010 Ocean Sciences Meeting*, Portland, OR.

Chair, session OS52B (1 oral and 2 poster sessions): Advances in the Prediction Capabilities of Interdisciplinary Nested Models in Coastal and Shelf Seas, *AGU 2008 Fall Meeting*, San Francisco, CA.

Invited to annual NSF review panels (fall 2012, spring 2009-2011, fall 2008).

Reviewer for additional NSF proposals (~2 per year).

Member, Internal Advisory Committee, National Center for Coral Reef Research (2010-current).

Member, Comprehensive Everglades Restoration Project Delivery Team (2003-2008).

Contribution to Management and Policy

Attended the Congressional hearing on preparedness to address potential threats along the South Florida coasts from oil spills in Cuba and the Bahamas (January 2012).

Interviewed by the Natural Resources Committee of the U.S. House of Representatives, as part of the House hearings on the BP Deepwater Horizon oil spill environmental impacts (May 2010).

Invited expert scientist during the public hearing debate on “legislation regarding opening waters offshore of Florida to oil drilling” organized by the Sanctuary Advisory Council to the Florida Keys National Marine Sanctuary (February 2010).

Participation in the 2009 Science Congressional Visit Day (American Geophysical Union delegation). Discussion on the role of coastal and shelf oceanography on climate and ocean prediction with Senate and House committees related to science, energy and technology. Discussion of marine science priorities with Congresswoman Iliana Ros-Lehtinen and representatives from the offices of Florida Senators Nelson and Martinez (April 2009).

Visit at the Office for Science and Technology Policy (OSTP) of the President of the United States and discussion on ocean science priorities with Dr. Jerry Miller, responsible for Ocean Sciences in the OSTP (April 2009).

International and National Education and Outreach

Participation in the “Miami Maker Fair”, hosted by the Miami Dade Community College, with a booth on UM research material and exhibits related to Dr. Kourafalou’s GoMRI project (spring 2017).

Short video to communicate “what is an eddy” to the general public, connecting to eddies in the Gulf of Mexico and their role on material transport. The video has been disseminated through social media (including a suitable platform that already has tens of thousands of science news followers) and the GoMRI web site. The video has been extremely successful with close to 50,000 thousand views (fall 2016).

Video with live footage and detailed explanation of field work near the Mississippi Delta and the Taylor site, which has been widely shared through social media (fall 2016).

Development of teaching material on oceanographic connectivity for middle school students, in collaboration with a science teacher intern, who is a member of the School Board of Broward County, FL. University of Miami undergraduate students in Marine Sciences and Communication will be involved in classroom teaching and in the development of related educational videos (2013).

Featured in the Miami Herald, Science News of the Week and international media, commenting on circulation features in the Florida Straits and challenges in providing prediction and scientific support for Australian Marathon swimmer Chloe McCardel attempting to be the first person to cross the Florida Straits swimming without a shark cage.

Interviewed by the national Italian TV channel RAI on the societal benefits of coastal prediction, as part of the TV coverage of the *2nd International Workshop on Coastal and Shelf Seas* (February 2013, at the Euro-Mediterranean Center for Climate Change / Coastal Studies Institute, Lecce, Italy) (2013).

Interviewed by Florida’s Channel 4 news on the scientific aspects of the oil drilling off the coast of Cuba (2011).

Numerous interviews and contributions on the BP Deepwater Horizon oil spill to Florida’s Channel 4 news, the National Public Radio, Univision and to the national and international press, including: the New York Times, Newsweek, the Miami Herald, the Palm Beach Post, the Gainesville Sun, the Agence France Presse, the El Pais, the Kathimerini, the Taiwan News, the Australian, (<http://coastalmodeling.rsmas.miami.edu/Application/View/60/MQ==>) (2010-2011).

Guest scientist and lecturer at the “Explorer of the Sea” UM-RSMAS program (2007).

Participant in the planning of public outreach through the book “South Florida Marine Environments: An ecological synthesis”, funded by the Environmental Protection Agency (2007-2009).

Creator and administrator of the MPO “Coastal and Shelf Modeling” web page (<http://coastalmodeling.rsmas.miami.edu>) and of a special page with dedicated links on the BP Deepwater Horizon oil spill incident (2006-present).

Local Community Activities

Member, Board of Directors, “Key Clubhouse of South Florida” chapter of “Clubhouse International”, a global non-profit NGO for mental illness sustainable solutions (2014-2016).

Speaker, Science café, Coconut Grove, FL: “*Current/Events: How real-time data and models forecast oil spills and hurricanes.*” 2012.

Featured scientist in 2011 “Research highlights” of UM’s Center for Computational Science.

Contribution to The Hurricane, the UM student newspaper (2011).

Speaker, UM Solutions Interdisciplinary Forum (2010).

Mentor of the Environmental Club at the Coral Gables Senior High School (2007-2009).

Science consultant for the citizens group “NHREAS”, Rafina, Greece, petition and litigation at the Greek Supreme Court for the designation of a Marine Protected Area in Marikes, Attica (2005-2007).

Training of University of Miami undergraduate students on how to take water samples and CTD profiles during field studies around South Florida (in support of the Comprehensive Everglades Restoration Project monitoring field program) (2001-2006).

Science consultant to the Greek Ministry of Education on the High School textbook in “Environmental Physics” (1997-1998).