

Vassiliki Kourafalou



Curriculum Vitae (Summary, 30/4/2024)

VASSILIKI KOURAFALOU

EDUCATION AND TRAINING

Prof. Kourafalou holds a Bachelor's Degree in Physics (University of Athens, Greece), a Master's of Science Degree in Meteorology and Physical Oceanography (University of Miami, USA) and a Doctor of Philosophy Degree in Meteorology and Physical Oceanography (University of Miami, USA). She has had post-doctoral training at the University of Miami and at the Consiglio Nazionale delle Ricerche (Italy).

PROFESSIONAL EXPERIENCE

Since 2014, Dr. Kourafalou has been a Professor of Ocean Sciences at the University of Miami's Rosenstiel School of Marine, Earth and Atmospheric Science. She has held prior positions at the Hellenic Center for Marine Research (Athens, Greece) and the Ministry of Public Works (Athens, Greece). She has also served as co-Director of the Joint University of Miami and NOAA Ocean Modeling and OSSE Center (OMOC). She has been the Director of the University of Miami's program on Diversity and Faculty Development (SEEDS) and has received a related award from the American Council on Education.

KEY QUALIFICATIONS

Prof. Kourafalou has pioneered research in marginal seas (Mediterranean and Caribbean Seas), especially in areas of large river outflows and biophysical connectivity, based on the interaction of coastal/shelf flows with deep ocean boundary currents. Recent activities include trans-disciplinary research in coastal resilience, combining environmental, socioeconomic and health resiliency aspects. She has also been active in research and methods for ocean observing system design and evaluation. She has a strong record on advancing science in support of numerical modeling, forecasting and prediction in coastal and regional seas, with a strong publication record on related processes and methods (147 peer-reviewed publications: 3 books, 112 journals, 32 conference proceedings, plus numerous additional published works).

International leadership experience (see details in p. 63-65)

Currently strong involvement in the United Nations/UNESCO Decade of Ocean Science for Sustainable Development ("Ocean Decade") through several actions that are relevant to Coastal Resilience, specifically participation in Programs and Committees for the Coastal Ocean and

Coastal Cities. Over the last 15 years, several activities relevant to understanding, measuring and predicting the coastal ocean include:

- Co-chair (2022-current) of the Ocean Decade Program “CoastPredict: Observing and Predicting the Global Coastal Ocean”.
- Member (2021-current) of the Scientific and Technical Advisory Committee (STAC) of the EU Copernicus Marine Service (CMEMS).
- Co-Chair, Ocean Predict, Coastal and Shelf Seas Task Team (2009-current).
- Member, Ocean Predict Science Team (2009-current).
- Member, Ocean Predict Observing System Evaluation Task Team (2012-2023).
- Member, *Expert Team (2018-2019) and Task Team (2016-2017) on Integrated Marine Meteorological and Oceanographic Services within WMO and IOC Information Systems (IPET-MOIS)* of the World Meteorological Organization and UNESCO’s Intergovernmental Oceanographic Commission Joint Technical Commission for Oceanography and Marine Meteorology (JCOMM).

Research Funding (see details in p. 43-37)

Prof. Kourafalou has raised over 14 million USD for her own research as a Principal Investigator (PI) or co-PI in numerous research projects while affiliated with the University of Miami, plus additional funds under collaboration in EU funded projects. She is a successful fund-raiser for academic, government and private awards and contracts and has taken responsibility for supervising research groups, administering the research funds and fulfilling all reporting obligations.

Certification of English language proficiency

Prof. Kourafalou certifies that she has fluent knowledge of the English language (written and oral) at level C2, based on the Common European Framework of Reference for Languages (CEFR): <https://www.coe.int/en/web/common-european-framework-reference-languages/table-2-cefr-3.3-common-reference-levels-self-assessment-grid>

This knowledge is further proven by her PhD degree from an English-speaking University, her record of numerous scientific publications in English and her record of numerous presentations at English-speaking conferences.



Curriculum Vitae (full details)

1. **Date:** 30 April, 2024

PERSONAL

2. **Name:** [REDACTED]
3. **Cell Phone:** [REDACTED]
4. **Office Phone:** [REDACTED]
5. **Home Address:** [REDACTED]
6. **Current Academic Rank:** Research Professor
7. **Primary Department:** Ocean Sciences,
Rosenstiel School of Marine, Atmospheric and Earth Science
University of Miami, Miami, FL33149
8. **Secondary/Joint Appts:** N/A
9. **Citizenship:** U.S.A.
10. **Visa Type (if non-citizen):** N/A

HIGHER EDUCATION

11. **Institutional:**
- | | | |
|------------------------------|-----------------------------|------|
| University of Miami | Ph.D. Physical Oceanography | 1993 |
| University of Miami | M.S. Physical Oceanography | 1983 |
| University of Athens, Greece | B.S. Physics | 1979 |
12. **Non-Institutional:** N/A
13. **Certification, licensure:** N/A

EXPERIENCE

14. **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

15. Non-academic:

University of Miami/RSMAS and NOAA-AOML Ocean Modeling and OSSE Center (OMOC)	co-Director	2010-2021
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

16. Military: N/A**PUBLICATIONS****17. Peer-reviewed books and chapters**

115. 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.
114. 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. Griffa, A. D. Kirwan, A. J. Mariano, T. Özgökmen, and T. Rossby, pp. 78-82, Amazon.
113. 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.

Peer-reviewed journal articles (*denotes 1st author is student or research staff under Kourafalou's supervision)

112. Zhang, Y., C. Hu, D.J. McGillicuddy, Y. Liu, B.B. Barnes, V.H. Kourafalou, 2024. Mesoscale eddies in the Gulf of Mexico: A three-dimensional characterization based on global HYCOM. *Deep Sea Research Part II* (accepted).
111. Zhang, Y., C. Hu, D.J. McGillicuddy, B.B. Barnes, Y. Liu, V.H. Kourafalou, S. Zhang, F.J. Hernandez, 2024. Pelagic Sargassum in the Gulf of Mexico driven by ocean currents and eddies. *Harmful Algal Blooms*, <https://doi.org/10.1016/j.hal.2023.102566>.
110. Zhang, Y., C. Hu, B. B. Barnes, Y. Liu, V.H. Kourafalou, D.J. McGillicuddy, Jr., J.P. Cannizzaro, D.C. English, and C. Lembke, 2023. Bio-optical, physical, and chemical properties of a Loop Current Eddy in the Gulf of Mexico, *J. Geophys. Res.*, doi:10.1029/2022JC018726.
109. Ntaganou, N.*, V.H. Kourafalou, F.J. Beron-Vera, M.J. Olascoaga, M. Le Hénaff and Y. Androulidakis, 2023. Influence of Caribbean Eddies on the Loop Current System evolution. *Frontiers in Marine Science*, doi:10.3389/fmars.2023.961058.
108. Le Hénaff, M., V.H. Kourafalou, Y.S. Androulidakis, N. Ntaganou, H-S. Kang, 2023. Influence of the Caribbean Sea eddy field on Loop Current predictions. *Frontiers in Marine Science*, <https://doi.org/10.3389/fmars.2023.1129402>.
107. Androulidakis, Y.S. and V.H. Kourafalou, 2023. Marine Heat Waves over natural and urban coastal environments of South Florida. *Journal of Marine Science and Engineering, Water*, 14, 3840, <https://doi.org/10.3390/w14233840>.
106. Boufadel, M., T. Özgökmen, S. Socolofsky, V.H. Kourafalou, R. Liu, K. Lee, 2023. The transport of the oil following the Deepwater Horizon blowout. *Annual Review of Marine Science*, <https://doi.org/10.1146/annurev-marine-040821-104411>.
105. Zhang, Y., C. Hu, V.H. Kourafalou, Y. Liu, D.J. McGillicuddy, B.B. Barnes and J.M. Hummon, 2022. Physical characteristics and evolution of a long-lasting mesoscale cyclonic eddy in the Straits of Florida. *Frontiers in Marine Science*, <https://doi.org/10.3389/fmars.2022.779450>.
104. Chaput, R., P. Sochala, P. Miron, V.H. Kourafalou and M. Iskandarani, 2022. Uncertainty propagation into numerical biophysical model of fish larval connectivity in the Florida Keys. *ICES Journal of Marine Science*, 79, 609–632, doi:10.1093/icesjms/fsac021 (showcased as *IJMS Editor's choice 3/3/2022*).

103. Ntaganou*, N., V.H. Kourafalou, M. Le Hénaff and Y. Androulidakis, 2022. The role of the West Florida Shelf topography on the Loop Current system variability. *Ocean Dynamics*, 72, 49–78. <https://doi.org/10.1007/s10236-021-01493-6>.
102. Androulidakis*, Y., V.H. Kourafalou, M.J. Olascoaga, F.J. Beron-Vera, M. Le Hénaff, H. Kang and N. Ntaganou, 2021. Impact of Caribbean Anticyclones on Loop Current variability. *Ocean Dynamics*, <https://doi.org/10.1007/s10236-021-01474-9>.
101. Justić, D., V.H. Kourafalou, G. Mariotti, S. He, R. Weisberg, Y. Androulidakis, C. Barker, A. Bracco, B. Dzwonkowski, C. Hu, H. Huang., G. Jacobs, M. Le Hénaff, Y. Liu, S. Morey, J. Nittrouer, E. Overton, C.B. Paris, B.J. Roberts, K. Rose, A. Valle-Levinson, J. Wiggert, 2021. A review of transport processes in the Gulf of Mexico along the river-estuary-shelf-ocean continuum: a synthesis of research from the Gulf of Mexico Research Initiative. *Estuaries and Coasts*, <https://doi.org/10.1007/s12237-021-01005-1>.
100. Cirano, M., G. Charria, P. De Mey, V.H. Kourafalou and E. Stanev. Coastal Ocean Forecasting Science supported by GODAE OceanView Coastal Oceans and Shelf Seas Task Team (COSS-TT) - Part II, 2021. *Ocean Dynamics*, 71, 779–783, <https://doi.org/10.1007/s10236-021-01464-x>.
99. Ainsworth, C.H., E.P., Chassignet, D. French-McCay, C.J. Beegle-Krause, I. Berenshtein, J. Englehardt, T. Fiddaman, H. Huang, M. Huettel, D. Justic, V.H. Kourafalou, Y. Liu, C. Mauritzen, S. Murawski, S. Morey, T. Özgökmen, C.B. Paris, J. Ruzicka, S. Saul, J. Shepherd, S. Socolofsky, H. Solo Gabriele, T. Sutton, R.H. Weisberg, C. Wilson, L. Zheng and Y. Zheng, 2021. A synthesis of integrative numerical modeling for the Deepwater Horizon oil spill by GOMRI, NRDA and others. *Environmental Modeling and Software*, <https://doi.org/10.1016/j.envsoft.2021.105070>.
98. Solo-Gabriele, H., T. Fiddaman, C. Mauritzen, C. Ainsworth, D. Abramson, I. Berenshtein, E.P. Chassignet, S.S. Chen, R.N. Comny, C.D. Court, W.K. Dewar, J.W. Farrington, M. Feldman, A.C. Ferguson, E. Fetherston-Resch, D. French-McCay, C. Hale, D. Halpern, R. He, V.H. Kourafalou, K. Lee, Y. Liu, M. Masi, E.S. Maung-Douglass, S.L. Morey, S.A. Murawski, C. Paris-Limouzy, N. Perlin, E.L. Pulster, A. Quigg, D.J. Reed, J.J. Ruzicka, P.A. Sandifer, J. Shepherd, M.R. Stukel, T.T. Sutton, R.H. Weisberg, D. Wiesenburg, C. Wilson, M. Wilson, K.M. Wowk, C. Yanoff and D. Yoskowitz, 2021. Towards Integrated Modeling of the Long-term Impacts of Oil Spills. *Marine Policy*, 131, <https://doi.org/10.1016/j.marpol.2021.104554>.
97. Hole, L., V. Aguiar, K-F. Dagestad, V.H. Kourafalou, Y. Androulidakis, H. Kang, M. Le Hénaff and A. Calzada, 2021. Long term oil drift simulations from potential oil spills around Cuba. *Marine Pollution Bulletin*, 167, <https://doi.org/10.1016/j.marpolbul.2021.112285>.
96. Androulidakis*, Y.S., V.H. Kourafalou, M. Le Hénaff, H. Kang and N. Ntaganou, 2021. The role of mesoscale dynamics over Northwestern Cuba on the Loop Current evolution in 2010, during the Deepwater Horizon incident. *Journal of Marine Science and Engineering*, 9, 188, <https://doi.org/10.3390/jmse9020188>.

95. Barker, C.H., V.H. Kourafalou, C.J. Beegle-Krause, Y.S. Androulidakis, M. Boufadel, M. Bourassa, S.G. Buschang, E.P. Chassignet, K-F. Dagestad, D.G. Danmeier, A.L. Dissanayake, J.A. Galt, G. Jacobs, G. Marcotte, T. Özgökmen, N. Pinardi, R. Schiller, S.A. Socolofsky, D. Thrift-Viveros, B. Zelenke, A. Zhang, Y. Zheng, 2020. Progress in Operational Modeling in Support of Oil Spill Response. *Journal of Marine Science and Engineering*, 8, 668; doi:10.3390/jmse8090668.
94. Androulidakis*, Y.S., V.H. Kourafalou, L. Hole, M. Le Hénaff and H. Kang, 2020. Pathways of oil spills from potential Cuban offshore exploration: influence of ocean circulation. *Journal of Marine Science and Engineering*, doi: 10.3390/jmse8070535.
93. Le Hénaff, V.H. Kourafalou, Y.S. Androulidakis, R.H. Smith, H. Kang, C. Hu, J. Lamkin, 2020. In situ measurements of circulation features influencing cross-shelf transport around Northwest Cuba. *J. Geophys. Res.*, doi: 10.1029/2019JC015780.
92. Androulidakis*, Y.S., V.H. Kourafalou, M. Le Hénaff, H. Kang, N. Ntaganou and C. Hu, 2020. Gulf Stream evolution through the Straits of Florida: the role of eddies and upwelling near Cuba. *Ocean Dynamics*, 70, 1005-1032, <https://doi.org/10.1007/s10236-020-01381-5>.
91. Garcia-Pineda, O., G. Staples, C. Jones, C. Hu, B. Holt, V.H. Kourafalou, G. Graettinger, L. DiPinto, E. Ramirez, D. Street, J. Cho, G. Swayze, S. Sun, 2020. Classification of oil spill thicknesses using satellite remote sensing for oil spill response. *Remote Sensing of Environment*, 236, <https://doi.org/10.1016/j.rse.2019.111421>.
90. Garcia-Pineda, O., I. Androulidakis, M. Le Hénaff, V.H. Kourafalou, L. Hole, H. Kang, G. Staples, L. DiPinto and E. Ramirez, 2020. Measuring oil residence time with GPS-drifters, satellites, and Unmanned Aerial Systems (UAS). *Marine Pollution Bulletin*, <https://doi.org/10.1016/j.marpolbul.2019.110644>.
89. Halliwell, G. Jr., G.J. Goni, M.F. Mehari, V.H. Kourafalou, M. Baringer, R. Atlas, 2020. OSSE Assessment of Underwater Glider Arrays to Improve Ocean Model Initialization for Tropical Cyclone Prediction. *J. Atm. Ocean. Tech.*, doi: 10.1175/JTECH-D-18-0195.1.
88. Valle-Levinson, A., V.H. Kourafalou, R.H. Smith and Y.S. Androulidakis, 2020. Flow structures over mesophotic coral ecosystems in the eastern Gulf of Mexico. *Continental Shelf Research*, <https://doi.org/10.1016/j.csr.2020.104219>.
87. Androulidakis*, Y.S., V.H. Kourafalou, M. Le Hénaff, H. Kang, T. Sutton, S. Chen, C. Hu, N. Ntaganou, 2019. Offshore spreading of Mississippi waters: pathways and vertical structure under eddy influence. *J. Geophys. Res.*, 124, doi: 10.1029/2018JC014661.
86. Otis, D.B., M. Le Hénaff, V.H. Kourafalou, L. McEachron and F.E. Muller-Karger, 2019. Mississippi River and Campeche Bank (Gulf of Mexico) episodes of cross-shelf export of

- coastal waters observed with satellites. *Remote Sensing of Environment*, 11, 723, doi:10.3390/rs11060723.
85. Hole, L., Dagestad, K.F., Röhrs, C., Wettre, V.H. Kourafalou, Y.S. Androulidakis, M. Le Hénaff, H. Kang and O. Garcia, 2019. Revisiting the DeepWater Horizon spill: High resolution model simulations of effects of oil droplet size distribution and river fronts. *Journal of Marine Science and Engineering*, 7, 329; doi:10.3390/jmse7100329.
84. Le Hénaff, M., Muller-Karger, F.E., V.H. Kourafalou, D. Otis, K.A. Johnson, L. McEachron, H. Kang, 2019. Coral Mortality in the Flower Garden Banks of the Gulf of Mexico in July 2016: The Consequence of Cross-Shelf Transport of Flood Waters? *Continental Shelf Research*, 190, doi:10.1016/j.csr.2019.103988.
83. Zhang, Y, C. Hu, Y. Liu, R.H. Weisberg and V.H. Kourafalou, 2019. Submesoscale and mesoscale eddies in the Florida Straits: Observations from satellite ocean color measurements. *Geophysical Research Letters*, 46, <https://doi.org/10.1029/2019GL083999>.
82. Benveniste, J., A. Cazenava, S. Vignudelli, L. Fenoglio-Marc, R. Shah, R. Almar, O. Andersen, F. Birol, P. Bonnefond, J. Bouffars, F. Calafat, E. Cardellach, P. Cipollini, G. Le Cozannet, C. Dufau, J. Fernandes, F. Frappart, J. Garrison, C. Gommenginger, G. Han, J.L. Høyer, V. Kourafalou, E. Leuliette, Z. Li, H. Loisel, K.S. Madsen, M. Marcos, A. Melet, B. Meyssignac, A. Pascual, M. Passaro, S. Ribo, R. Scharroo, Y.T. Song, S. Speich, J. Walkin, P. Woodworth and G. Wöppelmann, 2019. Requirements for a Coastal Hazards Observing System. *Front. Mar. Sci.*, 6:348, doi: 10.3389/fmars.2019.00348.
81. De Mey-Frémaux, P., N. Ayoub, A. Barth, R. Brewin, G. Charria, F. Campuzano, S. Ciavatta, M. Cirano, C. Edwards, I. Federico, S. Gao, I.G. Hermosa, M.G. Sotillo, H. Hewitt, L. Hole, J. Holt, R. King, V. Kourafalou, Y. Lu, B. Mourre, A. Pascual, J. Staneva, E. Stanev, H. Wang and X. Zhu, 2019. Model-observations synergy in the coastal ocean. *Front. Mar. Sci.*, 6:436, doi: 10.3389/fmars.2019.00436.
80. Ponte, R.M., M. Carson, M. Cirano, C. Domingues, S. Jevrejeva, M. Marcos, G. Mitchum, R.S.W. van de Wal, P.L. Woodworth, M. Ablain, F. Arduin, V. Ballu, M. Becker, J. Benveniste, F. Birol, E. Bradshaw, A. Cazenave, P. De Mey-Frémaux, F. Durand, T. Ezer, L.-L. Fu, I. Fukumori, K. Gordon, M. Gravelle, S.M. Griffies, W. Han, A. Hibbert, C.W. Hughes, D. Idier, V.H. Kourafalou, C.M. Little, A. Matthews, A. Melet, M. Merrifield, B. Meyssignac, S. Minobe, T. Penduff, N. Picot, C. Piecuch, R.D. Ray, L. Rickards, A. Santamaría-Gómez, D. Stammer, J. Staneva, L. Testut, K. Thompson, P. Thompson, S. Vignudelli, J. Williams, S.D.P. Williams, G. Wöppelmann, L. Zanna and X. Zhang, 2019. Towards comprehensive observing and modeling systems for monitoring and predicting regional to coastal sea level. *Front. Mar. Sci.*, 6:437, doi: 10.3389/fmars.2019.00437.
79. Fujii, Y., E. Remy, H. Zuo, P.R. Oke, G.R. Halliwell, F. Gasparin, M. Benkiran, N. Loose, J. Cummings, J. Xie, Y. Xue, S. Masuda, G.C. Smith, M.A. Balmaseda, C. Germaineaud, D.J. Lea, G.

- Larnicol, L. Bertino, A. Bonaduce, P. Brasseur, C. Donlon, P. Heimbach, Y. Kim, V. Kourafalou, P.Y. Le Traon, M.J. Martin, S. Paturo, B. Tranchant and N. Usui, 2019. Observing System Evaluation Based on Ocean Data Assimilation and Prediction Systems: On-going Challenges and Future Vision for Designing/Supporting Ocean Observational Networks. *Front. Mar. Sci.*, 6:417, doi: 10.3389/fmars.2019.00417.
78. Davidson, F., A. Alvera-Azcarate, A. Barth, G. Brassington, E.P. Chassignet, E. Clementi, P. De Mey-Frémaux, P. Divakaran., C. Harris, F. Hernandez, P. Hogan, L. R. Hole, J. Holt, V. Kourafalou, G. Liu, Y. Lu, P. Lorente, J. Maksymczuk, M. Martin, A. Mehra, A. Melsom, H. Mo, A. Moore, P. Oddo, A. Pascual, A.-C. Pequignet, A. Ryan, J. Siddorn, G. Smith, D. Spindler, T. Spindler, E. Stanev, J. Staneva, A. Storto, C. Tanajura, P.N. Vinayachandran, L. Wan, H. Wang, Y. Zhang, X. Zhu and Z. Zu, 2019. Synergies in Operational Oceanography: The Intrinsic Need for Sustained Ocean Observations. *Front. Mar. Sci.*, 6:450, doi: 10.3389/fmars.2019.00450.
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76. Androulidakis*, Y.S., V.H. Kourafalou, T. Özgökmen, O. Garcia- Pineda, B. Lund, M. Le Hénaff, C. Hu, B.K. Haus, G. Novelli, C. Guigand, H. Kang, L. Hole, J. Horstmann, 2018. Influence of river induced fronts on hydrocarbon transport: a multi-platform observational study. *J. Geophys. Res.*, <https://doi.org/10.1029/2017JC013514>.
75. Sun, S., C. Hu, O. Garcia-Pineda, V.H. Kourafalou, M. Le Hénaff, 2018. Optical Remote Sensing Assessment of Oil Spill from a Damaged Platform in the Gulf of Mexico. *Marine Pollution Bulletin*, <https://doi.org/10.1016/j.marpolbul.2018.09.004>.
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73. Reed, J.K., S. Farrington, A. David, S. Harter, S. Pomponi, C. Diaz, J. Voss, K.D. Spring, A.C. Hine, V.H. Kourafalou, R.H. Smith, A.C. Vaz, C.B. Paris, M.D.Hanisak. 2018. "Pulley Ridge, Gulf of Mexico, U.S.A." In: *Mesophotic Reefs of the World*. Edited by K. Puglise, Y. Loya, Springer publisher, New York, doi:10.1007/978-3-319-92735-0_4.
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71. 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.

70. 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.*, doi:10.1002/2017JC012760.
69. 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 potentially improving Tropical Cyclone prediction in coupled systems. *Journal of Operational Oceanography*, 10(2), doi: 10.1080/1755876X.2017.1322770.
68. 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.
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