

**JAMES W. FOURQUREAN**  
**CURRICULUM VITA**

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**Education**

Ph.D. 1992. University of Virginia, Department of Environmental Sciences.  
M.S. 1987. University of Virginia, Department of Environmental Sciences.  
B.A. 1983. University of Virginia, Departments of Biology and Environmental Sciences.

**Positions held**

2006- Professor, Department of Biological Sciences, Florida International University  
2012- Director, Marine Education and Research Initiative in the Florida Keys  
2011 Visiting Research Fellow, Oceans Institute, University of Western Australia  
2002-2006 Chair, Department of Biological Sciences, Florida International University  
2001-2002 Visiting Professor, Institut Mediterrani d'Estudis Avançats, CSIC-Universitat des Illes Balears, Esporles, Mallorca, Spain  
1998-2006 Associate Professor  
1993-1998 Assistant Professor, Department of Biological Sciences and Southeast Environmental Research Center, Florida International University  
1992 Postdoctoral research associate, San Francisco State University. J.T. Hollibaugh, advisor.  
1983-1992 Graduate research assistant, University of Virginia. J.C. Zieman, advisor.  
1983-1987 Research biologist, National Audubon Society.

**Teaching Experience**

At FIU: Undergraduate courses: Ecology, Ecology Lab, Freshwater Ecology.  
Graduate Courses: Advanced Ecology - Communities and Ecosystems, Ecology of Marine Vascular Plants, Techniques in Seagrass Ecology, Techniques in Scientific Diving, Introduction to Biological Research, Workshop in Plant Nutrient Analysis, Readings in Marine Ecosystem Ecology, Marine Botany.

At SFSU: Graduate courses: Advances in Biogeochemistry

Other formal teaching: 2003 - Tropical Marine Ecosystems graduate course through the Organization for Tropical Studies, Bocas del Toro, Panama. 2004, 2005, 2007 and 2009 - Marine Protected Areas in Central America and the Caribbean and Tropical Marine Botany, Puerto Morelos, Mexico. 2005 - Seagrass biology and ecology, Flatts, Bermuda.

**Research Interests**

Biogeochemistry of the coastal ocean  
Community ecology  
Nutrient cycling in the marine environment  
Primary productivity of aquatic systems  
Seagrass physiological ecology

**Awards and Honors**

- 2011 Australian National Network in Marine Sciences Visiting Scholar fellowship
- 2011 Gledden Visiting Senior Fellowship, University of Western Australia
- 2008 Florida International University Award for Excellence in Faculty Scholarship
- 2007 Florida International University Foundation Excellence in Research Award
- 1999 Florida International University Award for Extraordinary Performance in Attracting Contract and Grant Resources
- 1998 Florida International University Award for Extraordinary Performance in Attracting Contract and Grant Resources

**Publications (peer reviewed journals)**

- 91. **Fourqurean, J.W.**, G.A. Kendrick, L.S. Collins, R.M. Chambers and M.A. Vanderklift. In Press. Carbon and nutrient storage in subtropical seagrass meadows: examples from Florida Bay and Shark Bay. *Marine and Freshwater Research* 63:xx-xx. DOI:10.1071/MF12101
- 90. Kendrick G.A., **J.W. Fourqurean**, M.W. Fraser, M.R. Heithaus, G. Jackson, K. Friedman and D. Hallac. In Press. Science behind management of Shark Bay and Florida Bay, two P-limited subtropical systems with different climatology and human pressures. *Marine and Freshwater Research* 63:x-xx. DOI:10.1071/MF12280.
- 89. Fraser, M.W., G.A. Kendrick, P.F. Grierson, **J.W. Fourqurean**, M.A. Vanderklift and D.I. Walker. In Press. Nutrient status of seagrasses cannot be inferred from system-scale distribution of phosphorus in Shark Bay, Western Australia. *Marine and Freshwater Research* 63:xx-xx. DOI:10.1071/MF12026
- 88. Frankovich, T.A., J. Barr, D. Morrison and **J.W. Fourqurean**. In Press. Differential importance of water quality parameters and temporal patterns of submerged aquatic vegetation (SAV) cover in adjacent sub-estuaries distinguished by alternate regimes of phytoplankton and SAV dominance. *Marine and Freshwater Research* 63:xx-xx. DOI:10.1071/MF12xxx
- 87. Burkholder, D.A., M.R. Heithaus, and **J.W. Fourqurean**. In Press. Feeding preferences of herbivores in a relatively pristine subtropical seagrass ecosystem. *Marine and Freshwater Research* 63:xx-xx. DOI:10.1071/MF12xxx
- 86. Price, R.M., G. Skrzypek, P.F. Grierson, P.K. Swart, and **J.W. Fourqurean**. In Press. The use of stable isotopes of oxygen and hydrogen in identifying water exchange of in two hypersaline estuaries with different hydrologic regimes. *Marine and Freshwater Research* 63:xx-xx. DOI:10.1071/MF12xxx
- 85. Cawley, K.M., Y. Ding, **J.W. Fourqurean** and R. Jaffé. In Press. Characterizing the sources and fate of dissolved organic matter in Shark Bay, Australia: A preliminary study using optical properties and stable carbon isotopes. *Marine and Freshwater Research* 63:xx-xx. DOI: 10.1071/MF12028.
- 84. Belicka, L.L., D. Burkholder, **J.W. Fourqurean**, M.R. Heithaus, S.A. Macko and R. Jaffé. In Press. Stable isotope and fatty acid biomarkers of seagrass, epiphytic, and algal organic matter to consumers in a nearly pristine seagrass ecosystem. Australia. *Marine and Freshwater Research* 63:xx-xx. DOI:10.1071/MF12xxx
- 83. Lacey, E.A., **J.W. Fourqurean** and L. Collado-Vides. In Press. Increased algal dominance despite presence of *Diadema antillarum* populations on a Caribbean coral reef. *Bulletin of Marine Science* 89:xxx.xxx. DOI:10.5343/bms.2012.1015.
- 82. Burkholder, D.A., **J.W. Fourqurean** and M.R. Heithaus. Spatial pattern in stoichiometry indicates both N-limited and P-limited regions of an iconic P-limited subtropical bay. *Marine Ecology – Progress Series* DOI:10.3354/meps10042.
- 81. Baggett, L.P., K.L. Heck, Jr., T.A. Frankovich, A.R. Armitage and **J.W. Fourqurean**. In Press. Stoichiometry, growth, and fecundity responses to nutrient enrichment by invertebrate grazers in sub-tropical

- turtlegrass (*Thalassia testudinum*) meadows. Marine Biology xx:xxx-xxx. DOI:10.1007/s00227-012-2075-6.
80. Pendleton, L., D.C. Donato, B.C. Murray, S. Crooks, W.A. Jenkins, S. Sifleet, C. Craft, **J. W. Fourqurean**, B. Kauffman, N. Marbà, P. Megonigal, E. Pidgeon, V. Bilbao-Bastidam, R. Ullman, and D. Gordon. 2012. Estimating global "blue carbon" emissions from conversion and degradation of vegetated coastal ecosystems. PLoS ONE 7(9):e43542. DOI:10.1371/journal.pone.0043542
79. **Fourqurean, J.W.**, Duarte, C.M., Kennedy, H., Marbà, N., Holmer, M., Mateo, M.A., Apostolaki, E.T., Kendrick, G.A., Krause-Jensen, D., McGlathery, K.J., and O. Serrano. 2012. Seagrass ecosystems as a globally significant carbon stock. Nature Geoscience 5:505–509. DOI:10.1038/NGEO1477
78. Campbell, J.E., L.A. Yarbrow and **J.W. Fourqurean**. 2012. Negative relationships between the nutrient and carbohydrate content of the seagrass *Thalassia testudinum*. Aquatic Botany 99:56-60. DOI: 10.1016/j.aquabot.2012.02.002
77. Hitchcock, G.L., **J.W. Fourqurean**, J. Drake, R.N. Mead and C.A. Heil. 2012. Brevetoxin persistence in sediments and seagrass epiphytes of east Florida coastal waters. Harmful Algae 13:89-94 DOI: 10.1016/j.hal.2011.10.008
76. Burkholder, D.A., M.R. Heithaus, J.A. Thomson and **J.W. Fourqurean**. 2011. Diversity in trophic interactions of green sea turtles (*Chelonia mydas*) on a relatively pristine coastal seagrass foraging ground. Marine Ecology Progress Series 439: 277–293. DOI: 10.3354/meps09313
75. Armitage, A.R., T.A. Frankovich and **J.W. Fourqurean**. 2011. Long term effects of adding nutrients to an oligotrophic coastal environment. Ecosystems 14:430–444. DOI: 10.1007/s10021-011-9421-2
74. Herbert, D.A., W.B. Perry, B.J. Cosby and **J.W. Fourqurean**. 2011. Projected reorganization of Florida Bay seagrass communities in response to increased freshwater delivery from the Everglades. Estuaries and Coasts 34:973-992. DOI: 10.1007/s12237-011-9388-4
73. Frankovich, T.A., D. Morrison and **J.W. Fourqurean**. 2011. Benthic macrophyte distribution and abundance in estuarine mangrove lakes: Relationships to environmental variables. Estuaries and Coasts 34(1):20-31. DOI: 10.1007/s12237-010-9279-0
72. Campbell, J.E. and **J.W. Fourqurean**. 2011. Novel methodology for in situ carbon dioxide enrichment of benthic ecosystems. Limnology and Oceanography Methods 9:97–109. DOI: 10.4319/lom.2011.9.97
71. Duarte, C.M., N. Marbà, E. Gacia, **J.W. Fourqurean**, J. Beggins, C. Barrón, E.T. Apostolaki. 2010. Seagrass community metabolism: assessing the carbon sink capacity of seagrass meadows. Global Biogeochemical Cycles 24: GB4032. DOI: 10.1029/2010GB003793
70. Kennedy, H., J. Beggins, C. M. Duarte, **J.W. Fourqurean**, M. Holmer, N. Marbà, and J. J. Middelburg. 2010. Seagrass sediments as a global carbon sink: isotopic constraints. Global Biogeochemical Cycles 24: GB4026. DOI: 10.1029/2010GB003848
69. **Fourqurean, J.W.**, S. Manuel, K.A. Coates, W.J. Kenworthy and S.R. Smith. 2010. Effects of excluding sea turtle herbivores from a seagrass bed: overgrazing may have led to loss of seagrass meadows in Bermuda. Marine Ecology Progress Series 419:223-232. DOI: 10.3354/meps08853
68. **Fourqurean, J.W.**, M.F. Muth and J.N. Boyer. 2010. Epiphyte loads on seagrasses and microphytobenthos abundance are not reliable indicators of nutrient availability in coastal ecosystems. Marine Pollution Bulletin 60:971-983. DOI: 10.1016/j.marpolbul.2010.03.003
67. Dewsbury, B.M. and **J.W. Fourqurean**. 2010. Artificial reefs concentrate nutrients and alter benthic community structure in an oligotrophic, subtropical estuary. Bulletin of Marine Science 86(4): 813-828. DOI 10.5343/bms.2009.1066
66. Baggett, L.P., K.L. Heck, Jr., T.A. Frankovich, A.R. Armitage and **J.W. Fourqurean**. 2010. Nutrient enrichment, grazer identity and their effects on epiphytic algal assemblages: field experiments in sub-tropical turtlegrass (*Thalassia testudinum*) meadows. Marine Ecology - Progress Series 406:33-45. DOI 10.3354/meps08533

65. **Fourqurean, J.W.**, T.J Smith III, J. Possley, T. M. Collins, D. Lee and S. Namoff. 2010. Are mangroves in the tropical Atlantic ripe for invasion? Exotic mangrove trees in the forests of south Florida. *Biological Invasions* 12:2509-2522. DOI 10.1007/s10530-009-9660-8
64. Armitage, A.R. and **J.W. Fourqurean**. 2009. Stable isotopes reveal complex changes in trophic relationships following nutrient addition in a coastal marine ecosystem. *Estuaries and Coasts* 32:1152–1164. DOI 10.1007/s12237-009-9219-z
63. Waycott, M., C.M. Duarte, T.J.B. Carruthers, R.J. Orth, W.C. Dennison, S. Olyarnik, A. Calladine, **J.W. Fourqurean**, K.L. Heck, Jr., A.R. Hughes, G. Kendrick, W.J. Kenworthy, F.T. Short and S.L. Williams. 2009. Accelerating loss of seagrasses across the globe threatens coastal ecosystems. *Proceedings of the National Academies of Science USA* 106(3):12377-12381. DOI 10.1073 pnas.0905620106
62. Campbell, J.E. and **J.W. Fourqurean**. 2009. Interspecific variation in the elemental and stable isotopic content of seagrasses in South Florida. *Marine Ecology - Progress Series* 387:109-123. DOI 10.3354/meps08093
61. Frankovich, T.A., A.R. Armitage, A.H. Wachnicka, E.E. Gaiser and **J.W. Fourqurean**. 2009. Nutrient effects on seagrass epiphyte community structure in Florida Bay. *Journal of Phycology* 45:1010-1020. DOI 10.1111/j.1529-8817.2009.00745.x
60. Madden, C.J., D.T. Rudnick, A.A. McDonald, K.M. Cunniff, **J.W. Fourqurean**. 2009. Ecological indicators for assessing and communicating seagrass status and trends in Florida Bay. *Ecological Indicators* 9S:S68-S82. DOI 10.1016/j.ecolind.2009.02.004
59. Herbert, D.A. and **J.W. Fourqurean**. 2009. Phosphorus availability and salinity control productivity and demography of the seagrass *Thalassia testudinum* in Florida Bay. *Estuaries and Coasts* 32(1):188-201. DOI 10.1007/s12237-008-9116-x
58. **Fourqurean, J.W.**, C.M. Duarte, M.D. Kershaw and S.T. Threlkeld. 2008. *Estuaries and Coasts* as an outlet for research in coastal ecosystems: a bibliometric study. *Estuaries and Coasts* 31(3):469-476. DOI 10.1007/s12237-008-9046-7 (*Invited editorial*)
57. Herbert, D.A. and **J.W. Fourqurean**. 2008. Ecosystem structure and function still altered two decades after short-term fertilization of a seagrass meadow. *Ecosystems* 11: 688–700. DOI: 10.1007/s10021-008-9151-2
56. Ruiz-Halpern, S., S.A. Macko and **J.W. Fourqurean**. 2008. The effects of manipulation of sedimentary iron and organic matter on sediment biogeochemistry and seagrasses in a subtropical carbonate environment. *Biogeochemistry* 87:113-126. DOI:10.1007/s10533-007-9162-7
55. **Fourqurean, J.W.**, N. Marbà, C.M. Duarte, E. Diaz-Almela, and S. Ruiz-Halpern, 2007. Spatial and temporal variation in the elemental and stable isotopic content of the seagrasses *Posidonia oceanica* and *Cymodocea nodosa* from the Illes Balears, Spain. *Marine Biology* 151:219-232. DOI:10.1007/s00227-006-0473-3
54. Heithaus, M.R., A. Frid, A.J. Wirsing, L.M. Dill, **J.W. Fourqurean**, D. Burkholder, J. Thomson and L. Bejder. 2007. State-dependent risk-taking by green sea turtles mediates top-down effects of tiger shark intimidation in a marine ecosystem. *Journal of Animal Ecology* 76(5):837-844. DOI:10.1111/j.1365-2656.2007.01260.x
53. Collado-Vides, L., V.G. Caccia, J.N. Boyer and **J.W. Fourqurean**. 2007. Distribution and trends in macroalgal components of tropical seagrass communities in relation to water quality. *Estuarine Coastal and Shelf Science* 73:680-694; DOI 10.1016/j.ecss.2007.03.009
52. Murdoch, T.J.T. , A.F. Glasspool, M. Outerbridge, J. Ward, S. Manuel, J. Gray, A. Nash, K. A. Coates, J. Pitt, **J.W. Fourqurean**, P.A. Barnes, M. Vierros., K. Holzer, and S.R. Smith. 2007. Large-scale decline of offshore seagrass meadows in Bermuda . *Marine Ecology Progress Series* 339:123-130.

51. Peterson, B.J., C.M. Chester, F.J. Jochem and **J.W. Fourqurean**. 2006. Potential role of the sponge community in controlling phytoplankton blooms in Florida Bay. *Marine Ecology Progress Series* 328:93-103.
50. Orth, R.J., T.J.B. Carruthers, W.C. Dennison, C.M. Duarte, **J.W. Fourqurean**, K.L. Heck, Jr., R. Hughes, G. Kendrick, W.J. Kenworthy, S. Olyarnik, F.T. Short, M. Waycott and S.L. Williams. 2006. A global crisis for seagrass ecosystems. *BioScience* 56(12):987-996.
49. Armitage, A.R and **J.W. Fourqurean**. 2006. The short-term influence of herbivory near patch reefs varies between seagrass species. *Journal of Experimental Marine Biology and Ecology* 339:65-74; doi:10.1016/j.jembe.2006.07.013.
48. Johnson, M.W., K.L. Heck, Jr., **J.W. Fourqurean**. 2006. Nutrient content of seagrasses and epiphytes in the northern Gulf of Mexico: evidence of phosphorus and nitrogen limitation. *Aquatic Botany* 85(2):103-111; DOI 10.1016/j.aquabot.2006.02.003
47. Price, R.M., P.K. Swart and **J.W. Fourqurean**. 2006. Coastal groundwater discharge – an additional source of phosphorus for the oligotrophic wetlands of the Everglades. *Hydrobiologia* 569:23-36; DOI 10.1007/s10750-006-0120-5
46. Gil, M., A.R. Armitage, and **J.W. Fourqurean**. 2006. Nutrients increase epifaunal abundance and shift species composition in a subtropical seagrass bed. *Hydrobiologia* 569:437-447; DOI 10.1007/s10750-006-01747-7
45. Armitage, A.R., T.A. Frankovich and **J.W. Fourqurean**. 2006. Variable responses within epiphytic and benthic microalgal communities to nutrient enrichment. *Hydrobiologia* 569:423-435; DOI 10.1007/s10750-006-0146-8
44. Carruthers, T.J.B., P.A.G. Barnes, G.E. Jacome and **J.W. Fourqurean**. 2005. Lagoon scale processes in a coastally influenced Caribbean system: implications for the seagrass *Thalassia testudinum*. *Caribbean Journal of Science* 41(3):441-455.
43. **Fourqurean, J.W.** S.P. Escorcia, W.T. Anderson and J.C. Zieman. 2005. Spatial and seasonal variability in elemental content,  $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$  of *Thalassia testudinum* from south Florida. *Estuaries* 28(3):447-461.
42. Armitage, A.R., Frankovich, T.A., Heck, K.L. Jr., **Fourqurean, J.W.** 2005. Complexity in the response of benthic primary producers within a seagrass community to nutrient enrichment. *Estuaries* 28(3):422-434.
41. Romero, L.M., T.J. Smith, III., and **J.W. Fourqurean**. 2005. Changes in mass and nutrient content of wood during decomposition in a South Florida mangrove forest. *Journal of Ecology* 93(3):618-631; DOI 10.1111/j.1365-2745.2005.00970.x
40. Collado-Vides, L., L.M. Rutten and **J.W. Fourqurean**. 2005. Spatiotemporal variation of the abundance of calcareous green macroalgae in the Florida Keys: A study of synchrony within a macroalgal functional-form group. *Journal of Phycology* 41(4):742-752; DOI 10.1111/j.1529-8817.2005.00099.x
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37. Ferdie, M. and **J.W. Fourqurean**. 2004. Responses of seagrass communities to fertilization along a gradient of relative availability of nitrogen and phosphorus in a carbonate environment. *Limnology and Oceanography* 49(6):2082-2094.
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31. Peterson, B.J., C. D. Rose, L.M. Rutten and **J.W. Fourqurean**. 2002. Disturbance and recovery following catastrophic grazing: studies of a successional chronosequence in a seagrass bed. *Oikos* 97:361-370.
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27. Chambers, R.M., **J. W. Fourqurean**, S.A. Macko and R. Hoppenot. 2001. Biogeochemical effects of iron availability on primary producers in a shallow marine carbonate environment. *Limnology and Oceanography* 46(6):1278-1286.
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25. Davis, B.C. and **J.W. Fourqurean**. 2001. Competition between the tropical alga, *Halimeda incrassata*, and the seagrass, *Thalassia testudinum*. *Aquatic Botany* 71(3):217-232.
24. Cai, Y., M. Georgiadis and **J.W. Fourqurean**. 2000. Determination of arsenic in seagrass using inductively coupled plasma mass spectrometry. *Spectrochimica Acta, Part B: Atomic Spectroscopy* 55:1411-1422
23. Nuttle, W.K., **J.W. Fourqurean**, B.J. Cosby, J.C. Zieman, and M.B. Robblee. 2000. Influence of net freshwater supply on salinity in Florida Bay. *Water Resources Research* 36(7):1805-1822.
22. **Fourqurean, J.W.** and M. B. Robblee. 1999. Florida Bay: a history of recent ecological changes. *Estuaries* 22(2B):345-357. DOI 10.2307/1353203
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19. Zieman, J.C., **J.W. Fourqurean** and T.A. Frankovich. 1999. Seagrass dieoff in Florida Bay: long term trends in abundance and productivity of turtlegrass, *Thalassia testudinum*. *Estuaries* 22(2B):460-470.
18. Boyer, J.N., **J.W. Fourqurean** and R.D. Jones. 1999. Temporal trends in water chemistry of Florida Bay (1989-1997). *Estuaries* 22(2B):417-430
17. Hall, M.O., M.D. Durako, **J.W. Fourqurean** and J.C. Zieman. 1999. Decadal scale changes in seagrass distribution and abundance in Florida Bay. *Estuaries* 22(2B):445-459.
16. Frankovich, T.A. and **J.W. Fourqurean**. 1997. Seagrass epiphyte loads along a nutrient availability gradient, Florida Bay, FL, USA. *Marine Ecology - Progress Series* 159:37-50.

15. **Fourqurean, J.W.**, T.O. Moore, B. Fry, and J.T. Hollibaugh. 1997. Spatial and temporal variation in C:N:P ratios,  $\delta^{15}\text{N}$ , and  $\delta^{13}\text{C}$  of eelgrass (*Zostera marina* L.) as indicators of ecosystem processes, Tomales Bay, CA, USA. *Marine Ecology - Progress Series* 157:147-157.
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13. **Fourqurean, J.W.**, K.L. Webb, J.T. Hollibaugh and S.V. Smith. 1997. Contributions of the plankton community to ecosystem respiration, Tomales Bay, California. *Estuarine, Coastal and Shelf Science*. 44:493-505.
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11. **Fourqurean, J.W.**, G.V.N. Powell, W.J. Kenworthy and J.C. Zieman. 1995. The effects of long-term manipulation of nutrient supply on competition between the seagrasses *Thalassia testudinum* and *Halodule wrightii* in Florida Bay. *Oikos* 72:349-358.
10. Zieman, J.C., R. Davis, **J.W. Fourqurean** and M.B. Robblee. 1994. The role of climate in the Florida Bay seagrass dieoff. *Bulletin of Marine Science* 54(3):1088.
9. **Fourqurean, J.W.**, R.D. Jones and J.C. Zieman. 1993. Processes influencing water column nutrient characteristics and phosphorus limitation of phytoplankton biomass in Florida Bay, FL, USA: Inferences from spatial distributions. *Estuarine, Coastal and Shelf Science*. 36:295-314.
8. **Fourqurean, J.W.**, J.C. Zieman and G.V.N. Powell. 1992. Relationships between porewater nutrients and seagrasses in a subtropical carbonate environment. *Marine Biology* 114:57-65.
7. **Fourqurean, J.W.**, J.C. Zieman and G.V.N. Powell. 1992. Phosphorus limitation of primary production in Florida Bay: evidence from the C:N:P ratios of the dominant seagrass *Thalassia testudinum*. *Limnology and Oceanography* 37(1):162-171
6. Chambers, R.M. and **J.W. Fourqurean**. 1991. Alternative criteria for assessing nutrient limitation of a wetland macrophyte (*Peltandra virginica* (L.) Kunth. *Aquatic Botany* 40:305-320.
5. **Fourqurean, J.W.** and J.C. Zieman. 1991. Photosynthesis, respiration and the whole plant carbon budget of the seagrass *Thalassia testudinum*. *Marine Ecology - Progress Series* 69(1-2):161-170.
4. Powell, G.V.N., **J.W. Fourqurean**, W.J. Kenworthy and J.C. Zieman. 1991. Bird colonies cause seagrass enrichment in a subtropical estuary: observational and experimental evidence. *Estuarine, Coastal and Shelf Science* 32(6):567-579.
3. Robblee, M.B., T.R. Barber, P.R. Carlson, M.J. Durako, **J.W. Fourqurean**, L.K. Muehlstein, D. Porter, L.A. Yarbro, R.T. Zieman and J.C. Zieman. 1991. Mass mortality of the tropical seagrass *Thalassia testudinum* in Florida Bay (USA). *Marine Ecology - Progress Series* 71:297-299.
2. Powell, G.V.N., W.J. Kenworthy and **J.W. Fourqurean**. 1989. Experimental evidence for nutrient limitation of seagrass growth in a tropical estuary with restricted circulation. *Bulletin of Marine Science* 44(1):324-340.
1. Zieman, J.C., **J.W. Fourqurean** and R.L. Iverson. 1989. Distribution, abundance and productivity of seagrasses and macroalgae in Florida Bay. *Bulletin of Marine Science* 44(1):292-311.

#### Book Chapters:

4. Coates, K.A., **J.W. Fourqurean**, W.J. Kenworthy, A. Logan, S.A. Manuel and S.R. Smith. In Press. Introduction to Bermuda geology, oceanography and climate. Pp xxx-xxx In: Sheppard, C. (Ed) *Coral Reefs of the World – Volume 4: Coral Reefs of the UK overseas territories*. Springer. 336pp. ISBN: 978-94-007-5964-0
3. Duarte, C.M., **J.W. Fourqurean**, D. Krause-Jensen and B. Olesen. 2005. Dynamics of seagrass stability and change. Pp. 271-294 In Larkum, A.W.D., Orth, R.J., and C.M. Duarte. *Seagrasses: Biology, ecology and conservation*. Springer

2. **Fourqurean, J.W.** and L.M. Rutten. 2003. Competing goals of spatial and temporal resolution: monitoring seagrass communities on a regional scale . Pp 257-288 in: Busch, D. E. and J.C. Trexler, eds. Monitoring ecosystems: interdisciplinary approaches for evaluating ecoregional initiatives. Island Press, Washington, D. C. 447 pp.
1. **Fourqurean, J.W.**, M.D. Durako, M.O. Hall and L.N. Hefty. 2002. Seagrass distribution in south Florida: a multi-agency coordinated monitoring program. Pp 497-522 in: Porter, J.W. and K.G. Porter, eds. The Everglades, Florida Bay, and the coral reefs of the Florida Keys. CRC Press LLC, Boca Raton. 1000pp.

#### Manuscripts submitted:

- Manuel, S.M., K.A. Coates, W.J. Kenworthy and **J.W. Fourqurean**. In review. Tropical species at the northern limit of their range: composition and distribution in Bermuda's benthic habitats in relation to depth and light availability. Marine Environmental Research
- Campbell, J.E. and **J.W. Fourqurean**. In Situ CO<sub>2</sub> enrichment alters the nutrient and carbohydrate content of seagrasses: Parallels to terrestrial research. Marine Biology
- Bourque, A.S, and **J.W. Fourqurean**. Herbivory in subtropical seagrass ecosystems and implications for restoration. Journal of Experimental Marine Biology and Ecology
- Campbell, J.E. and **J.W. Fourqurean**. Mechanisms of bicarbonate use influence photosynthetic CO<sub>2</sub> sensitivity of tropical seagrasses. Limnology and Oceanography
- Lacey, E.A., L. Collado-Vides and **J.W. Fourqurean**. Morphological and physiological responses of seagrasses to grazers and their role as patch abandonment cues. Biotropica

#### Publications (other):

- Kenworthy, J., S. Manuel, **J. Fourqurean**, K. Coates and M. Outerbridge. 2011. Bermuda Triangle: Seagrass, green turtles and conservation. Seagrass Watch Magazine 44:16-18
- Fourqurean, J. W.** 2012. The south Florida marine ecosystem contains the largest documented seagrass bed on the planet. pp. 263-264 in Kruczinsky, W. L. and P. J. Fletcher. Tropical Connections: South Florida's marine environment. IAN Press, Cambridge MD. 451 pp.
- Fourqurean, J. W.** 2012. Seagrasses are very productive. pp. 265-266 in Kruczinsky, W. L. and P. J. Fletcher. Tropical Connections: South Florida's marine environment. IAN Press, Cambridge MD. 451 pp.
- Fourqurean, J. W.** 2012. Seagrasses are sentinels of water quality. pp. 274-276 in Kruczinsky, W. L. and P. J. Fletcher. Tropical Connections: South Florida's marine environment. IAN Press, Cambridge MD. 451 pp.
- Fourqurean, J. W.** 2012. As nutrients change, so do plant species. pp. 277-279 in Kruczinsky, W. L. and P. J. Fletcher. Tropical Connections: South Florida's marine environment. IAN Press, Cambridge MD. 451 pp.
- Kruczynski, W.L., M.B. Robblee and **J.W. Fourqurean**. 2012. The ecological character of Florida Bay responds to both changing climate and man's activities. pp. 120-122 in Kruczinsky, W. L. and P. J. Fletcher. Tropical Connections: South Florida's marine environment. IAN Press, Cambridge MD. 451 pp.
- Kershaw, M., **J. Fourqurean** and C.M. Duarte. 2007. Bibliometric data show *Estuaries and Coasts* is a great venue for publishing your research. Estuarine Research Federation Newsletter 33(1):6-7.
- Bricker, S., G. Matlock, J. Snider, A. Mason, M. Alber, W. Boynton, D. Brock, G. Brush, D. Chestnut, U. Claussen, W. Dennison, E. Dettmann, D. Dunn, J. Ferreira, D. Flemer, P. Fong, **J. Fourqurean**, J. Hameedi, D. Hernandez, D. Hoover, D. Johnston, S. Jones, K. Kamer, R. Kelty, D. Keeley, R. Langan, J. Latimer, D.



Lipton, R. Magnien, T. Malone, G. Morrison, J. Newton, J. Pennock, N. Rabalais, D. Scheurer, J. Sharp, D. Smith, S. Smith, P. Tester, R. Thom, D. Trueblood, R. Van Dolah. 2004. National Estuarine Eutrophication Assessment Update: Workshop summary and recommendations for development of a long-term monitoring and assessment program. Proceedings of a workshop September 4-5 2002, Patuxent Wildlife Research Refuge, Laurel, Maryland. National Oceanic and Atmospheric Administration, National Ocean Service, National Centers for Coastal Ocean Science. Silver Spring, MD. 19 pp. Available at: <http://www.eutro.org/publications.aspx>

**Fourqurean, J. W.** 2002. Seagrass ecology (Marten A. Hemminga and Carlos M. Duarte). *Limnology and Oceanography* 47(2):611. [Book Review]

Durako, M.J., **J.W. Fourqurean** and 9 others. 1994. Seagrass die-off in Florida Bay. In: Douglas, J. (ed.) Proceedings of the Gulf of Mexico Symposium. U.S.E.P.A., Tarpon Springs, FL. pp. 14-15.

**Fourqurean, J.W.** 1992. The roles of resource availability and competition in structuring seagrass communities of Florida Bay. Ph.D. Dissertation, Department of Environmental Sciences, University of Virginia. 280 pp.

**Fourqurean, J.W.** and J.C. Zieman. 1991. Photosynthesis, respiration and whole plant carbon budgets of *Thalassia testudinum*, *Halodule wrightii* and *Syringodium filiforme*. pp 59-70 in Kenworthy, W.J. and D.E. Haurert (eds.) The light requirements of seagrasses: proceedings of a workshop to examine the capability of water quality criteria, standards and monitoring programs to protect seagrasses. NOAA Technical Memorandum NMFS-SEFC-287.

Continental Shelf Associates. 1991. A comparison of marine productivity among outer continental shelf planning areas. Supplement - An evaluation of benthic habitat primary productivity. Final Report, U.S. Department of the Interior, Minerals Management Service OCS Study MMM 91-0001, Contract #14-35-0001-30487, Herndon, VA. 244 pp + appendix.

**Fourqurean, J.W.** 1987. Photosynthetic response to temperature and salinity variation in three subtropical seagrasses. MS Thesis, Department of Environmental Sciences, University of Virginia. 80 pp.

Zieman, J.C. and **J.W. Fourqurean**. 1985. The distribution and abundance of benthic vegetation in Florida Bay, Florida. Final report, USNPS South Florida Research Center, Everglades National Park. Contract CX5280-2-2204.

#### Participation in Invited Workshops (Last 5 years)

- 2012 Gordon-like Conference on Land-Ocean Connectivity – from Hydrological to Ecological Understanding of Groundwater Effects in the Coastal Zone, sponsored by Europôle Mer, Aber Wrac’h, Brittany, France, 25-27 September
- 2012 International Blue Carbon Policy Working Group sponsored by Conservation International, IUCN and UNESCO, Brussels, Belgium, 10-11 Jan
- 2011 MarineGEO workshop, convened by the Smithsonian Institution for helping to design a Smithsonian-based coastal marine global ecological observatory. 16-17 November, Annapolis, MD
- 2011 Blue Carbon Scientific Working Group sponsored by Conservation International, IUCN and UNESCO, Bali, Indonesia, 26 July 2011.
- 2011 Exmouth Gulf Productivity Workshop, sponsored by the Western Australia Marine Science Institute, University of Western Australia, Perth, 25 May
- 2011 How can stable isotopes inform ecosystem based management? Sponsored by CSIRO, Rottneest Island, 11-12 May
- 2011 Ecosystem research in Shark Bay - developing multi-institutional cooperation. Sponsored by University of Western Australia’s Ocean Institute, UWA Institute for Advanced Studies and US NSF, Mar 2

- 2011 Blue Carbon Scientific Working Group sponsored by Conservation International, IUCN and UNESCO, Paris, France, Feb 15-17
- 2010 Blue Carbon Workshop, sponsored by Duke University's Nicholas School of the Environment and the Linden Trust, Durham, NC, Nov 9-10
- 2010 A Workshop on the Long-term Ecological Effects of the *Deepwater Horizon* Oil Spill on Coastal Ecosystems Sponsored by the National Science Foundation and the Department of Biological Science at Florida State University, Sept 10-12
- 2009 Florida Bay Seagrass Workshop, Everglades National Park, Homestead, FL, Mar 29
- 2009 Identification of Ecosystem Indicators for the Florida Keys and the Dry Tortugas Workshop, NOAA MARES, Homestead, FL. Mar 22-23
- 2009 The role of seagrasses in the global carbon cycle 2: organic matter storage in seagrass sediments. Sponsored by Seagrass Recovery, Inc, Key West, FL, Feb 8-10
- 2009 The role of seagrasses in the global carbon cycle 1: net ecosystem metabolism in seagrass ecosystems. Sponsored by Seagrass Recovery, Inc, Esporles, Mallorca, Spain. Dec 7-9
- 2009 Coastal and Marine Vegetation Succession Workshop, Everglades National Park, Homestead, FL Jan 26
- 2009 Development of Revised Transparency Criteria as part of Triennial Review of State Surface Water Quality Standards, 62-302, F.A.C. Sponsored by Florida Department of Environmental Protection, Orlando, FL Jan 7-8
- 2008 Algae Bloom Workshop sponsored by the Florida Keys National Marine Sanctuary, ENP Research headquarters, Homestead, FL. 14 March
- 2007 Global Marine Species Assessment: Temperate seagrasses workshop. IUCN Redlist, World Conservation Union. Santa Barbara, CA Oct 25
- 2007 LTER Science Council Net Primary Production Workshop, Portland, OR, May 17-19.
- 2005-2007 Global seagrass trajectories. NSF's National Center for Ecological Analysis and Synthesis, Santa Barbara, CA.

#### **Invited Oral Presentations (Last 5 years)**

- 2012 Blue Carbon in seagrass ecosystems. Symposium: Blue Carbon, managing coastal ecosystems for climate change mitigation, European Parliament, Brussels , 12 January
- 2011 Blue Carbon in seagrass ecosystems: how much is there and what's it worth? Blue Carbon Science Working Group meeting, Bali, Indonesia 26 July
- 2011 Blue Carbon in seagrass ecosystems: how much is there and what's it worth? Center for Marine Ecosystems Research, School of Natural Sciences seminar series, Edith Cowan University, Joondalup, Western Australia, 1 July
- 2011 Monitoring seagrasses for ecosystem management at the regional scale: examples from south Florida and Bermuda. Oceans Institute Seminar Series, University of Western Australia, Perth, Western Australia. 8 June
- 2011 Monitoring seagrasses for ecosystem management at the regional scale: examples from south Florida and Bermuda. The University of Western Australia Oceans Institute/Australian Institute of Marine Science Marine Science Seminar Series. Perth, Western Australia 18 May

- 2011 Spatial and temporal variation in stable carbon and nitrogen isotopes in seagrasses and their application to ecosystem management in south Florida, USA. Presented at the symposium: How can stable isotopes inform ecosystem based management? Sponsored by CSIRO, Freemantle, Western Australia 10 May
- 2011 Monitoring seagrasses for ecosystem management at the regional scale: examples from south Florida and Bermuda. Department of Environment and Agriculture, Curtin University, Perth, Western Australia, 6 May
- 2011 Seagrasses: biology, ecology and global importance. Maria Island Marine Ecology field class, Institute for Marine and Antarctic Studies, University of Tasmania. 22 April
- 2011 Monitoring seagrasses for ecosystem management at the regional scale: examples from south Florida and Bermuda. CSIRO Center for Marine and Atmospheric Research, Hobart, Tasmania, 20 April
- 2011 Fourqurean, J.W., H. Kennedy and N. Marbà. Seagrass meadows as natural carbon sinks. Blue Carbon Scientific Working Group meeting. UNESCO, Paris. Feb 16-17
- 2010 Seascape biogeochemistry: inferring process from spatial and temporal pattern in seagrass ecosystems. Department Seminar, Skidaway Institute of Oceanography, April 26
- 2009 The structure of seagrass meadows can be completely controlled by herbivores - Institut Mediterrani d'Estudis Avançats, CSIC-Universitat des Illes Balears, Esporles, Mallorca, Spain. Nov 19
- 2009 Patterns in stoichiometry and stable isotopes reveal the functioning of near shore marine environments. Department of Marine Biology and Fisheries, RSMAS, Key Biscayne FL, 2 April
- 2008 Patterns in stoichiometry and stable isotopes reveal the functioning of near shore marine environments. Biogeochemistry & Environmental Biocomplexity Program Seminar, Cornell University, Ithaca, NY. 5 Dec
- 2008 Top predators, herbivores and seagrass ecosystems. Silk Alley Summer Science Series, St. George's, Bermuda. 24 September.
- 2008 Regional patterns in stoichiometry and stable isotopes reveal the functioning of the nearshore marine environment in south Florida. Department Seminar, Ecosystems Center, Woods Hole, MA. 8 August.
- 2008 The spatial pattern of element ratios and stable isotopes in the benthos can reveal the nature of the linkages between uplands and the coastal ocean. Plenary talk, 111<sup>th</sup> Annual Texas Academy of Sciences Meeting, Corpus Christi, Tx . 7-8 March
- 2008 Seascape ecology: Pattern and process in seagrass ecosystems at the regional scale. Florida Institute of Technology, Department of Biology. 17 Jan
- 2007 Armitage, A.R., T.A. Frankovich, and **J.W. Fourqurean**. Long-term shifts in seagrass community structure follow experimental nutrient enrichment in Florida Bay. Biennial Estuarine Research Federation meeting, Providence, RI Nov 4-8.
- 2007 Evidence for regional increases in nutrient availability causing decadal-scale change in seagrass beds in the Florida Keys. USGS-USF Marine Sciences seminar series, Mar 30.
- 2007 Seagrasses: flowering plants in the sea that are sentinels of environmental change. Keynote address at the Fairchild Tropical Botanic Garden Annual Members' Meeting, Mar 10.

#### **Contributed Presentations** (Last 5 years)

- 2011 Coates, K.A., **J.W. Fourqurean**, S.A. Manuel and W.J. Kenworthy. A management challenge –are green turtles destroying seagrass beds in Bermuda? 35<sup>th</sup> Annual Meeting of the Association of Marine Labs of the Caribbean, San José, Costa Rica, 23-27 May
- 2011 Manuel, S.A., K.A. Coates, W.J. Kenworthy and **J.W. Fourqurean**. Distributions of tropical species in Bermuda's benthic habitats: in relation to light availability. 35<sup>th</sup> Annual Meeting of the Association of Marine Labs of the Caribbean, San José, Costa Rica, 23-27 May
- 2011 Chambers, R., Boyer, J., Childers, D., **J. W. Fourqurean**, Rivera-Monroy, V., and T. Russell, Variation in nutrient coupling between wetlands and open water of two Everglades river systems. Biennial Meeting of the Coastal and Estuarine Research Federation, Daytona, FL 6-10 November

- 2011 Collins, L. S., Chang, J., and **J.W. Fourqurean**, Seagrass foraminifera of Florida Bay: proxy for water quality through time. Biennial Meeting of the Coastal and Estuarine Research Federation, Daytona, FL 6-10 November
- 2011 **Fourqurean, J.W.**, Predicting hurricanes of the future? Biennial Meeting of the Coastal and Estuarine Research Federation, Daytona, FL 6-10 November
- 2011 Frankovich, T., Barr, J., Morrison, D., and **J.W. Fourqurean**, Differential importance of water quality parameters and temporal patterns of submerged aquatic vegetation (SAV) cover in adjacent sub-estuaries distinguished by alternate regimes of phytoplankton and SAV dominance. Biennial Meeting of the Coastal and Estuarine Research Federation, Daytona, FL 6-10 November
- 2011 Heithaus, M. R., Bessey, C., Burkholder, D., and **J.W. Fourqurean**, Do tiger sharks influence seagrass ecosystems through multiple indirect pathways? Biennial Meeting of the Coastal and Estuarine Research Federation, Daytona, FL 6-10 November
- 2011 Herbert, D. A., and **J.W. Fourqurean**, Indicators of nutrient abatement in seagrass communities after six years of wastewater treatment. Biennial Meeting of the Coastal and Estuarine Research Federation, Daytona, FL 6-10 November
- 2011 Manuel, S., Coates, K., Kenworthy, W., and **J.W. Fourqurean**, Distribution of tropical seagrass species in Bermuda in relation to light availability. Biennial Meeting of the Coastal and Estuarine Research Federation, Daytona, FL 6-10 November
- 2010 **Fourqurean, J.W.** Long-term Monitoring of Benthic Community Structure Points Decadal-scale Increases in Nutrient Availability in the Florida Keys. Linking science to management: A conference and workshop on the Florida Keys marine ecosystem, Duck Key, Florida, Oct 18-10
- 2010 Ortner, P., J. Ault, **J. Fourqurean**, G. Johns, C. Kelble, D. Lee, B. Leeworthy, D. Lirman, D. Loomis, J. Lorenz and W. Nuttle. An Assessment of Science Needs Based on an Integrated Conceptual Ecosystem Model of the Florida Keys: The MARES Project. Linking science to management: A conference and workshop on the Florida Keys marine ecosystem, Duck Key, Florida, Oct 18-10
- 2010 Herbert, D.A., A.R. Armitage and **J.W. Fourqurean**. Phosphorus Discharge and Ecosystem Integrity: How Much is Safe? Linking science to management: A conference and workshop on the Florida Keys marine ecosystem, Duck Key, Florida, Oct 18-10
- 2010 Frankovich, T.A, D. Morrison, **J.W. Fourqurean**, J.G. Barr, and K. Cunniff. Seasonal Patterns in Benthic Macrophytes and Water Quality Parameters in the Mangrove Lakes Region of Florida Bay. Linking science to management: A conference and workshop on the Florida Keys marine ecosystem, Duck Key, Florida, Oct 18-10
- 2010 Collado-Vides, L. and **J. W. Fourqurean**. *Halimeda* Dynamics Relative to Nutrients Availability in The Florida Keys National Marine Sanctuary: A Good Indicator of Productivity and Acidification. Linking science to management: A conference and workshop on the Florida Keys marine ecosystem, Duck Key, Florida, Oct 18-10
- 2010 Frankovich, T. A., J. G. Barr, D. Morrison and **J. W. Fourqurean**. Opposite Seasonal Patterns in *Chara* and *Halodule* Communities in the Mangrove Lakes and Estuaries of the Coastal Everglades: Relationships to Environmental Variables. Greater Everglades Ecosystem Restoration: The Everglades: A Living Laboratory of Change. Planning, Policy and Science Meeting. Naples, Florida. July 12-16
- 2010 Herbert, D. A., W. B. Perry, B. J. Cosby and **J. W. Fourqurean**. Projected Reorganization of Florida Bay Seagrass Communities in Response to Increased Freshwater Inflow with Everglades Restoration. Greater Everglades Ecosystem Restoration: The Everglades: A Living Laboratory of Change. Planning, Policy and Science Meeting. Naples, Florida. July 12-16
- 2010 Nuttle W., J. Ault, **J. Fourqurean**, G. Johns, C. Kelble, D. Lee, B. Leeworthy, D. Lirman, D. Loomis and J. Lorenz. Integrating Human Dimensions into Ecosystem Management of the Florida Keys and Dry

- Tortugas: Preliminary Findings from the MARES Project Greater Everglades Ecosystem Restoration: The Everglades: A Living Laboratory of Change. Planning, Policy and Science Meeting. Naples, Florida. July 12-16
- 2009 Kendrick, G.A., T.J.B Carruthers, R.J. Orth, W.C. Dennison, S. Olyarnik, C.M. Duarte, **J.W. Fourqurean**, K.L. Heck, A.R. Hughes, W.J. Kenworthy, F.T. Short, M. Waycott, S.L. Williams. Global Seagrass Trajectories: Understanding Multi-Decadal Seagrass Change in Relation to Species, Regions, Habitats, and Processes of Change. INTECOL 2009 Brisbane Australia . August
- 2009 Frankovich, T.A., **J.W. Fourqurean** and D. Morrison. Spatio-Temporal Dynamics of SAV Abundance in a Seasonally Arid Estuary: Relationships to salinity, phosphorus and water clarity. Coastal and Estuarine Research Federation 2009 Conference, Portland, Oregon 1-5 November
- 2009 Weaver, C.A., A.R. Armitage and **J.W. Fourqurean**. Effects of Nutrient Addition on Seagrass Epifaunal Abundance in Nutrient Limited Conditions, Coastal and Estuarine Research Federation 2009 Conference, Portland, Oregon 1-5 November
- 2009 **Fourqurean, J.W.**, K.A. Coates, S.A. Manuel and J. Kenworthy. Status and Trends in Seagrass Distributions in Bermuda – are sea turtles eating it all? Coastal and Estuarine Research Federation 2009 Conference, Portland, Oregon 1-5 November
- 2009 Carruthers, T.J.B., G. Kendrick, R. Orth, W. Dennison, S. Olyarnik, C. Duarte, **J.W. Fourqurean**, K. Heck, R. Hughes, J. Kenworthy, F. Short and M. Waycott . Global Seagrass Trajectories: Understanding multi-decadal seagrass change in relation to species, regions, habitats and processes of change, Coastal and Estuarine Research Federation 2009 Conference, Portland, Oregon 1-5 November
- 2009 Herbert, D.A. and **J.W. Fourqurean**. Benthic Metabolism in Florida Bay is Controlled by Phosphorus Availability, Coastal and Estuarine Research Federation 2009 Conference, Portland, Oregon 1-5 November
- 2009 Cheng, J., L.S. Collins, C.W. Holmes, and **J.W. Fourqurean**. Seagrass Abundance of Florida Bay, Using Foraminifera as a Proxy. Geological Society of America meeting Portland Ore. Oct. 18-21
- 2009 Manuel, S.A., K. A. Coates, **J. W. Fourqurean**, and W. J. Kenworthy. Seagrass Habitat Monitoring and Management in Bermuda. Association of Marine Laboratories of the Caribbean 34<sup>th</sup> Science Conference, Dominica, May 25-29.
- 2009 Bilewitch, J. M., K. A. Coates, S. A. Manuel, **J.W. Fourqurean**, and W. J. Kenworthy. The seagrass *Halodule* in Bermuda: morphology, genetics, distribution and ecology. Association of Marine Laboratories of the Caribbean 34<sup>th</sup> Science Conference, Dominica, May 25-29.
- 2009 Coates, K. A., **J. W. Fourqurean**, W. J. Kenworthy and S. A. Manuel. Exclusion of megagrazers from seagrass habitat in Bermuda – a pilot study. Association of Marine Laboratories of the Caribbean 34<sup>th</sup> Science Conference, Dominica, May 25-29.
- 2009 Weaver, C.A., A.R. Armitage and **J.W. Fourqurean**. Nutrient addition reduces the influence of habitat complexity on seagrass epifaunal abundance, 38th Annual Benthic Ecology Meeting, Corpus Christi, Texas, 4-7 March
- 2008 Weaver, C.A., A.R. Armitage and **J.W. Fourqurean**. Effects of Habitat Complexity and Nutrient Enrichment on Epifauna Abundance and Diversity in a Florida Bay Seagrass System. 2008 Florida Bay and Adjacent Marine Systems Science Conference Naples, FL, 8-11 December
- 2008 Armitage, A.R., T.A. Frankovich, and **J.W. Fourqurean**. Long-term Shifts in Seagrass Community Structure Follow Experimental Nutrient Enrichment in Florida Bay. 2008 Florida Bay and Adjacent Marine Systems Science Conference Naples, FL, 8-11 December
- 2008 Collado-Vides, L. and **J.W. Fourqurean**. *Halimeda* Dynamics Relative to Nutrients Availability in the Florida Keys. 2008 Florida Bay and Adjacent Marine Systems Science Conference Naples, FL, 8-11 December

- 2008 **Fourqurean, J.W.** Multiple Lines of Evidence Suggest Long-term Eutrophication of Seagrass dominated Nearshore Ecosystems in the Florida Keys. 2008 Florida Bay and Adjacent Marine Systems Science Conference Naples, FL, 8-11 December
- 2008 Frankovich, T.A., D. Morrison, and **J.W. Fourqurean.** Spatio-Temporal Dynamics of SAV Abundance in the Mangrove Lakes Region of Florida Bay: Relationships to Salinity, Phosphorus, and Water Clarity. 2008 Florida Bay and Adjacent Marine Systems Science Conference Naples, FL, 8-11 December
- 2008 Herbert, D.A. and **J.W. Fourqurean.** Phosphorus Availability and Salinity Control Productivity and Demography of the Seagrass *Thalassia testudinum* in Florida Bay. 2008 Florida Bay and Adjacent Marine Systems Science Conference Naples, FL, 8-11 December
- 2008 Bello, J., R. Bernard, **J.W. Fourqurean** and L. Collado-Vides. Comparative primary production of calcareous green macroalgae in contrasting estuarine scenarios in Florida Bay. 30<sup>th</sup> Annual Southeastern Phycological Colloquy, St. Augustine, Florida. 24-25 October.
- 2008 **Fourqurean, J.W.** Long-term shifts in seagrass community structure follow experimental nutrient enrichment in Florida Bay. 2008 Greater Everglades Ecosystem Restoration Conference: Planning, Policy and Science. Naples, FL. July 28-August 1
- 2008 Frankovich, T.A and **J.W. Fourqurean** Spatio-temporal dynamics of SAV abundance and water quality in the mangrove lakes region of Florida Bay. 2008 Greater Everglades Ecosystem Restoration Conference: Planning, Policy and Science. Naples, FL. July 28-August 1
- 2008 Herbert, D.A. and **J.W. Fourqurean.** Influences of phosphorus and salinity on productivity and demography of *Thalassia Testudinum* across Florida Bay. 2008 Greater Everglades Ecosystem Restoration Conference: Planning, Policy and Science. Naples, FL. July 28-August 1
- 2008 Armitage, A.R., T.A. Frankovich, and **J.W. Fourqurean.** Long-term shifts in seagrass community structure follow experimental nutrient enrichment in Florida Bay. Cooperative Ecosystem Studies Units Network 5th National Meeting, Washington DC June
- 2007 Armitage, A.R. and **J.W. Fourqurean.** 2007. Trophic implications of nutrient enrichment in seagrass beds. Ecological Society of America annual meeting, San Jose, Ca Aug 5-10
- 2007 Frankovich T.A., A.R. Armitage, J.W. Fourqurean, A. Wachnicka and E.E. Gaiser. P enrichment of seagrass meadows causes changes in epiphyte community structure at different taxonomic levels. Biennial Estuarine Research Federation meeting, Providence, RI Nov 4-8.
- 2007 Herbert, D.A and J.W. Fourqurean. 2007. Long-term effects of short-term and long-term nutrient loading in an oligotrophic seagrass ecosystem. Biennial Estuarine Research Federation meeting, Providence, RI Nov 4-8.
- 2007 Dennison, W.C., T.J.B. Carruthers, C.M. Duarte, **J.W. Fourqurean**, K.L. Heck, Jr., R. Hughes, G. Kendrick, W.J. Kenworthy, S. Olyarnik, R.J. Orth, F.T. Short, M. Waycott, and S.L. Williams Global trajectories of seagrasses: A quantitative assessment. Biennial Estuarine Research Federation meeting, Providence, RI Nov 4-8.
- 2007 Carruthers, T.J.B., S.L. Williams, M. Waycott, W.C. Dennison, C.M. Duarte, **J.W. Fourqurean**, K.L. Heck, A.R. Hughes, G.A. Kendrick, W.J. Kenworthy, S. Olyarnik, R.J. Orth and F.T. Short. Could climate change and eutrophication promote *Ruppia* as the seagrass of the future? Biennial Estuarine Research Federation meeting, Providence, RI Nov 4-8.
- 2007 Collado-Vides, L. and **J.W. Fourqurean.** *Halimeda* dynamics relative to availability in the Florida Keys National Marine Sanctuary. Biennial Estuarine Research Federation meeting, Providence, RI Nov 4-8.
- 2007 Manuel, S.A., K.A. Coates, **J.W. Fourqurean**, W.J. Kenworthy, M.W. Hammond, and M.L. Shailer. Seagrass habitat monitoring and management in Bermuda. Biennial Estuarine Research Federation meeting, Providence, RI Nov 4-8.

- 2007 Coates, K.A., S. Manuel, **J.W. Fourqurean**, W.J. Kenworthy, and T.J.T. Murdoch. Conservation and management of seagrass habitat in Bermuda. 33<sup>rd</sup> Scientific Conference of the Association of Marine Laboratories of the Caribbean, St. Thomas, USVI, June 4-8.
- 2007 Manuel, S., K.A. Coates, **J.W. Fourqurean**, W.J. Kenworthy, M.P. Hammond, M.L. Shailer, T.J. Murdoch. Mapping and monitoring seagrass habitat in Bermuda, year 1: species diversity and distribution. 33<sup>rd</sup> Scientific Conference of the Association of Marine Laboratories of the Caribbean, St. Thomas, USVI, June 4-8.

**Presentations by my students at scientific meetings** (Last 5 years)

- 2011 Perez, A., G. Puig-Santana, **J. W. Fourqurean** and L. Collado-Vides. Nutrient Dynamics of Benthic Flora in Florida Bay: A Long-Term Approach, 33<sup>rd</sup> annual Southeastern Phycological Colloquium, Miami, 14-15 Oct
2011. Bourque, A. S., and **J.W. Fourqurean**, Effects of restoration on ecosystem structure in tropical seagrass meadows. Biennial Meeting of the Coastal and Estuarine Research Federation, Daytona, FL 6-10 November
- 2011 Burkholder, D., Heithaus, M., **Fourqurean, J.W.**, and A. Wirsing, Top-down control in a relatively pristine seagrass ecosystem. Biennial Meeting of the Coastal and Estuarine Research Federation, Daytona, FL 6-10 November
- 2011 Campbell, J. E., and **J.W. Fourqurean**, In situ CO<sub>2</sub> enrichment: Impacts on a nearshore seagrass community. Biennial Meeting of the Coastal and Estuarine Research Federation, Daytona, FL 6-10 November
- 2011 Dewsbury, B. M., and **J.W. Fourqurean**, The abundance, distribution and geochemistry of marine plants and algae in Biscayne Bay, Florida. Biennial Meeting of the Coastal and Estuarine Research Federation, Daytona, FL 6-10 November
- 2011 Lacey, E. A., **Fourqurean, J.W.**, van Tussenbroek, B., and L. Collado-Vides, Differential herbivore grazing impacts on ecosystems structure within a eutrophic, tropical seagrass bed. Biennial Meeting of the Coastal and Estuarine Research Federation, Daytona, FL 6-10 November
- 2011 Perez, A., Puig-Santana, G. A., **Fourqurean, J. W.**, and L. Collado-Vides, Nutrient dynamics of benthic flora in Florida Bay: a long-term approach. Biennial Meeting of the Coastal and Estuarine Research Federation, Daytona, FL 6-10 November
- 2011 Dewsbury, B.M, M. Bhat, and **J.W. Fourqurean**. An 'optimal' solution for the valuation of seagrass ecosystems. 6<sup>th</sup> Biennial Conference of the United States Society for Ecological Economics, Michigan State University, East Lansing, Michigan. June 26-29, 2011
- 2011 Dewsbury, B.M., S. Koptur and **J.W. Fourqurean**. A characterization of vegetation and biogeochemistry along a chronosequence in a pine rockland habitat. Botany Conference 2011, St. Louis, MO, July 9-13
- 2011 Broderick, E., Gabrielson, P., Collado-Vides, L. and **J. Fourqurean**. What is that pink crust? Making identification of crustose coralline algae more tractable. 35<sup>th</sup> Annual Meeting of the Association of Marine Labs of the Caribbean, San José, Costa Rica, 23-27 May
- 2010 Lacey, EA, **Fourqurean JW**, Collado-Vides, L. Temporal and spatial nutrient dynamics of tropical marine macroalgae: challenges to interpretation. . Southeastern Phycological Colloquy, Wilmington NC, Oct 29-10
- 2010 Perez, A, Puig-Santana, G., **Fourqurean, J.**, and Collado-Vides, L., Long term effects of nutrient enrichment on calcareous green algae in southern Florida Bay. Southeastern Phycological Colloquy, Wilmington NC, Oct 29-10
- 2010 Campbell, J.E. and **J.W. Fourqurean**. Responses of a nearshore seagrass community to *in situ* CO<sub>2</sub> fertilization. Linking science to management: A conference and workshop on the Florida Keys marine ecosystem, Duck Key, Florida, Oct 18-22

- 2010 Bourque, A. S., Tongue, M. L. and **Fourqurean, J. W.** Herbivory in subtropical seagrass ecosystems and implications for seagrass restoration. 2010 Benthic Ecology Meeting, Wilmington NC, Mar 10-13.
- 2010 Campbell, J.E. and **Fourqurean, J. W.** The impacts of CO<sub>2</sub> fertilization on the productivity and structure of seagrass communities. 2010 Benthic Ecology Meeting, Wilmington NC, Mar 10-13.
- 2010 Dewsbury, B.M. and **J.W. Fourqurean** A quantitative and qualitative analysis of the SAV and biogeochemistry of Biscayne Bay, Florida. 2010 Benthic Ecology Meeting, Wilmington NC, Mar 10-13.
- 2010 Halun, Z. And **J. W. Fourqurean.** Effects of fertilization and grazing on seagrass community structure in South Florida. 2010 Benthic Ecology Meeting, Wilmington NC, Mar 10-13.
- 2010 Lacey, E. A., Collado-Vides, L. and **Fourqurean, J.W.** Size Matters! Relationships between echinoid population dynamics and macroalgal community composition on a Mexican Caribbean coral reef. 2010 Benthic Ecology Meeting, Wilmington NC, Mar 10-13.
- 2008 Campbell, J.E. and **J.W. Fourqurean.** Interspecific Variation in the Elemental and Stable Isotopic Content of Seagrass Communities in South Florida. 2008 Florida Bay and Adjacent Marine Systems Science Conference Naples, FL, 8-11 December
- 2008 Bernard, R.J. and **J.W. Fourqurean.** Effects of Light and Nutrient Supply on Stable Isotope Composition and Fractionation in N-Limited Seagrass Beds. 2008 Florida Bay and Adjacent Marine Systems Science Conference Naples, FL, 8-11 December
- 2008 Halun, Z. and **J.W. Fourqurean.** Effects of Fertilization and Herbivory on Seagrass Community Structure in Florida Bay. 2008 Florida Bay and Adjacent Marine Systems Science Conference Naples, FL, 8-11 December
- 2008 Halun, S. Z. and **J.W. Fourqurean.** Species richness of marine benthic habitats in South Florida. 11<sup>th</sup> International Coral Reef Symposium, Ft. Lauderdale 7-11 July

### Grants and Funding

Over \$21M in extramural grants since 1992 (as PI unless otherwise noted), including:

- National Science Foundation. "RAPID response to measuring the ecological effects of the Deepwater Horizon oil spill on the Florida Coastal Everglades." \$150,000, 10/1/2010 - 12/31/2011
- National Park Service. "Establishing long-term seagrass monitoring sites in Dry Tortugas National Park." \$35,000, 10/1/2010 – 12/31/2012.
- National Park Service. "Proposal for a synthesis of water quality and benthic habitat monitoring data from national parks." \$157,319, 9/9/2009-10/31/2012
- National Park Service. "SAV and water quality monitoring and nutrient source pools in the mangrove lakes." \$319,000, 8/4/2010 – 8/3/2013.
- Florida Sea Grant. "Projected reorganization of seagrass communities in response to altered freshwater flow in Florida Bay," \$96,255. 02/01/08 -01/31/10. (With Darrell Herbert, PI)
- National Park Service. "Design and implementation of monitoring of seagrass restoration projects in Biscayne National Park". \$50,000. Dec 2006 - Dec 2009.
- National Park Service. "Impacts of increased freshwater flow & nutrient input on benthic community structure & trophic interactions" \$319,000, August 2007-October 2010.
- Government of Bermuda. "Guidance in Developing a Monitoring Program for Bermuda's Seagrass Resources" \$27,061, 02-May-2007 - Dec 31, 2009.
- Stanford Foundation, Inc. "Impacts of global change on the Antigua and Barbuda coastal and marine ecosystem and development of a management plan" \$1.4M, Nov 2006- Oct 2012 (PI on a \$1.4M subcontract of a \$60M overall project).



- National Science Foundation - Biological Oceanography: "Influence of predation risk on foraging behavior of sea turtles and dugongs" \$336,000, September 2005 - August 2008 (with Mike Heithaus, PI)
- National Park Service. "Submerged aquatic vegetation and physiochemical monitoring of the Florida Bay mangrove zone" \$248,000, Nov 2005 - Oct 2009.
- National Science Foundation - Geology and Paleontology: "The seagrass history of Florida Bay reconstructed from integrating micropaleontological and geochemical proxies" \$130,000, Sept 2002 - August 2003 (With L. Collins, PI, and two other coPIs).
- Environmental Protection Agency. "Seagrass monitoring in the Florida Keys National Marine Sanctuary" \$3.5M, Oct 1994 - Sept 2013.
- National Park Service. "N vs P limitation of seagrass communities of Florida Bay" \$225,000, April 2002 - March 2005.
- National Park Service. "Hydrologic mass balance of Florida Bay: continued development of FATHOM" \$175,000, April 2002-March 2003.
- National Oceanographic and Atmospheric Administration. "Seagrass monitoring in the Florida Keys National Marine Sanctuary," \$850,000, Sept 2001-Aug 2007.
- National Science Foundation. "Florida coastal Everglades Long Term Environmental Research Supplement," \$55,000, March 2001 -Feb 2002 (With D. L. Childers, PI, and 4 other coPIs).
- National Science Foundation. "Florida coastal Everglades Long Term Environmental Research - COERCE LTER," \$4,200,000, May 2000 - May 2007. (With D. L. Childers, PI, and 4 other coPIs).
- Florida Sea Grant. "The role of filter feeding sponges in controlling phytoplankton blooms in Florida Bay and the concomitant effect on the health of seagrasses," \$113,594. January 2000 - December 2001.
- National Oceanographic and Atmospheric Administration. "Monitoring in the Carysfort and Western Sambos ecological reserves of the Florida Keys National Marine Sanctuary," \$20,000. October 2000 - September 2001.
- US Army Corps of Engineers. "An assessment of nearshore benthic communities of the Florida Keys," \$130,215. Oct 2000 - Sept 2001.
- National Park Service. "Developing ecologically meaningful performance measures for the USACOE Restudy," \$22,000. Oct 1999 - Jul 2000
- Florida Fish and Wildlife Conservation Commission. "Evaluation of ecological performance measures for Florida Bay. \$23,500. Aug 1999 - Jul 2000
- South Florida Water Management District. "Salinity performance measures for Florida Bay," \$15,400. Oct 1999 - Sep 2000
- National Park Service. "Sea turtle monitoring in Dry Tortugas National Park" \$14,511. Jun 1998- Nov 1998
- United States Geological Survey, Biological Resources Division. "Isotope analysis in Florida Bay and adjacent waters" \$60,000. Oct 1998-Dec 1999.
- National Oceanographic and Atmospheric Administration. "Seagrass monitoring in the Florida Keys National Marine Sanctuary special use zones. \$20,277, Sept 1997-Aug 1998.
- National Park Service. "Continued development of FATHOM: a mass-balance model for the simulation of salinity and circulation in Florida Bay" \$200,309, Aug 1997-Jul 1999.
- National Park Service. "Relationship of sedimentary sulfur, iron and phosphorus cycling to water quality in Florida Bay: how seagrass dieoffs contribute to algal blooms," \$76,871, 5/97-4/99. (With R.M. Chambers, PI)
- Environmental Protection Agency. Multiscale assessment of the population status of *Thalassia testudinum*: a new approach to ecosystem management. \$870,000, 10/1/96-9/30/99. (With M.D. Durako, PI, and 4 other co-PI's).
- United States Geological Survey, Biological Resources Division. Proposal for a dedicated issue of the journal *Estuaries* for long-term studies of Florida Bay. \$21,500, December 1996.

- National Biological Survey. \$31,802. "Recovery of mangrove forests following Hurricane Andrew." July 1996 - June 1997.
- Florida Institute of Oceanography. Shiptime award for teaching and research. \$10,000, Feb. 1996
- National Biological Survey. "Studies of wood decomposition and nutrient dynamics in southwest Florida mangrove forests." \$55,994, Jan 1996 - Dec 1996.
- National Biological Survey. "Hurricane Andrew technical services." \$5,000, Sept 1995-Dec 1995.
- National Science Foundation, Academic Research Infrastructure Program. "Acquisition of an advanced isotope ratio mass spectrometer for ecosystems studies at Florida International University. \$201,960, January 1996. ( with B. Fry, PI, and 4 other Co-PI's).
- National Biological Survey. "Florida Bay seagrass technical services." \$5,000, Sept 1995 - Mar 1996.
- National Marine Fisheries Service. "Analysis of seagrass monitoring data from Biscayne Bay, Florida." \$12,000, Sept 1994 - Apr 1995.
- Everglades National Park. "Development of a hydrological mass balance model of Florida Bay, Everglades National Park." \$41,468. Sept 1994 - Aug 1995. (with J.C. Zieman, M.B. Robblee, and B.J. Cosby).
- Florida Department of Environmental Protection. "Southwest Florida Shelf Water Quality Monitoring." C-5272. \$57,500/yr, May 1994 - Oct 1996. (with R.D. Jones).
- National Science Foundation. "Acquisition of an autoanalyzer." BIR-9317198. \$40,000, Mar. 1994, (with J.T. Hollibaugh, R.M. Chambers).
- Florida Sea Grant. "Photographic mapping of seagrasses in Florida Bay." \$20,161, Aug. 1993 - July 1994.
- South Florida Water Management District. "Monitoring water quality in South Biscayne Bay." C-4226. \$103,000/yr, Sept. 1993 - Aug. 1994. (with R.D. Jones).
- National Park Service. "Effects of Hurricane Andrew on water quality and biogeochemistry in the near-shore marine and estuarine areas of Everglades National Park." \$240,000, Oct. 1993 - Sept. 1995. (with R.D. Jones)
- Environmental Protection Agency. Coastal Submerged Aquatic Vegetation Initiative. CR 820443-01-0. \$142,900/yr, Oct. 1992 - Sept. 1994. (with J.C. Zieman and 4 other Co-PI's).
- NOAA National Undersea Research Program. "The use of seagrasses to determine the sources of natural and anomalous nutrient inputs to the Florida Keys National Marine Sanctuary." \$20,000/yr, Jan. 1992 - Dec. 1995. (with J.C. Zieman and S.A. Macko).

### **Other Professional Activities**

Reviewer of manuscripts for Limnology and Oceanography; Estuarine, Coastal and Shelf Science; Bulletin of Marine Science; Estuaries and Coasts; Marine Ecology - Progress Series; Ecological Applications; Water Resources Bulletin; Journal of Experimental Marine Biology and Ecology; Archiv für Hydrobiologie; Coral Reefs; Marine Pollution Bulletin; Ecology; Aquatic Botany; Environmental Science and Technology; Hydrobiologia; Botanica Marina; Palaeogeography, Palaeoclimatology, Palaeoecology

Editorships: guest editor for a dedicated issue of the journal Estuaries on the long-term dynamics of Florida Bay, Volume 22, Number 2B, June 1999.

Reviewer of proposals for National Science Foundation, National Oceanographic and Atmospheric Administration, National Undersea Research Program, Connecticut Department of Environmental Protection, U.S. Environmental Protection Agency.

### Membership on advisory boards

Member-at-large, Estuarine Research Federation Governing Board, 2003-2005

NOAA's Florida Bay Technical Advisory Group, 1993-  
FIU Scientific Diving Control Board, 1994-, Chair, 1996-  
FIU's representative on the advisory board of Florida Institute of Oceanography, 1998-  
FIU's campus coordinator for Florida Sea Grant, 1998-

**Student and Post-docs**

Current graduate students (program): Justin Campbell (Ph.D.), Bryan Dewsbury (Ph.D.), Zayda Halun (Ph.D.),  
Amanda Bourque (Ph.D.), Elizabeth Lacey (Ph.D.), Jennifer Sweatman (Ph.D.)

Former graduate students (degree received): Craig Rose (Ph.D.), Braxton Davis (M.S.), Maureen Walter (M.S.),  
Patricia Mumford (M.S.), Luz Romero (M.S.), Meredith Ferdie (M.S.), Leanne Rutten (M.S.), Kevin Cunniff  
(M.S.), Virginia Cornett (M.S.), Dorothy Byron (M.S.), Sergio Ruiz-Halpern (M.S.), Bryan Dewsbury (M.S.),  
Rebecca Bernard (M.S.)

Current post-docs: Darrell Herbert, Thomas Frankovich

Former post-docs (current position): Allan Willsie (Biologist, Parks Canada), Bradley J. Peterson (Assistant Prof,  
Stony Brook), Anna R. Armitage (Assistant Prof, Texas A&M Galveston), Ligia Collado-Vides (Instructor,  
FIU)