

CURRICULUM VITAE

Michael J. Durako

Personal

Born: December 30, 1952; Philadelphia, Pennsylvania

Status: Married, Two Children

Address: The University of North Carolina at Wilmington

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Education

Ph.D. Marine Science, 1991 University of South Florida, St. Petersburg, FL 33701

M.A. Botany, 1978 University of South Florida, Tampa, FL 33620

B.S. Biology, 1975 Florida Atlantic University, Boca Raton, FL 33432

Research Focus

Ecology, demography, physiology, and reproductive biology of subtropical and tropical marine macrophytes; bio-optical characteristics of coastal waters; photosynthesis in marine systems; restoration ecology; scale effects on ecoindicator variability, marine pollution.

Professional Experience

Current Position: Professor (since 8/04), Department of Biology and Marine Biology, UNCW

8/97- 5/04: Associate Professor, Department of Biology, tenured 8/00

5/95- 8/97: Senior Research Scientist, Florida Marine Research Institute - Supervisor of Habitat Assessment and Restoration Research Group within Resource Health and Assessment Section. Supervised 5-Full Time Research Scientists (3 Ph.D.'s) and 8-Temporary (OPS) Research Staff employees.

2/91-5/95- Research Scientist, Florida Marine Research Institute - Botany and Technical Sciences Section.

1/89-2/91 - Biological Scientist IV, Bureau of Marine Research - Botany and Technical Sciences Section.

11/84- 1/89 - Biological Scientist III, Bureau of Marine Research - Botany and Technical Sciences Section.

8/82-11/84 - Senior Biologist, Bureau of Marine Research - Botany Section.

9/79-8/82 - Biologist, Bureau of Marine Research - Botany Section.

1/79-9/79 - Marine Biologist I, Bureau of Marine Research - Botany Section.

Appointed to NOAA-funded Recovery Plan team for the recently listed species *Halophila johnsonii*, the only marine plant ever to be listed under the Endangered Species Act.

1999-present

Ecosystems Team Member, USACE Florida Keys Carrying Capacity Study. 1999-2002

Team Leader - Florida Bay Program Management Committee, Seagrass Research Team 1998-present.

Moderator - Special session on light requirements of tropical seagrasses, National Turbidity-Seagrass Workshop. 1990.

Member - Florida Dept. Environmental Regulation Seagrass Task Force, 1986/87.

Editor - Proceedings of the Symposium on Subtropical-Tropical Seagrasses of the Southeastern United States, 1986/87.

Reviewer - Granting Agencies

National Science Foundation, Australian Research Council, National Undersea Research Center – UNCW, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, Florida Sea Grant, New Hampshire Sea Grant, Florida Game and Freshwater Fish Commission

Reviewer - Journals

Bulletin of Marine Science, Massachusetts Institute of Technology Sea Grant, Marine Ecology - Progress Series - member of Review Staff 2001-present, Marine Biology, Estuaries, American Journal of Botany, Proceedings of the Gulf and Caribbean Fishery Institute, Journal of Coastal Research, Canadian Journal of Botany, Journal of Experimental Marine Biology and Ecology, Caribbean Journal of Science, Coral Reefs, Marine and Freshwater Research, Limnology and Oceanography

Research Team Leader for Young Adult Conservation Corps' Coastal Revegetation Projects, 8/78-12/78.

Graduate Teaching Assistant: 1/77-6/78.

Academic Experience

Visiting Senior Research Fellow - University of Technology, Sydney 1/03-4/04

Courtesy Professor - University of South Florida, Department of Marine Science and University of South Florida, Department of Biology. Credentialed 4/93, Affiliate membership to Graduate Faculty 12/94, appointed to Courtesy Assistant Professor 8/96.

Adjunct Faculty - Eckerd College, Department of Marine Science, 1/96.

Thesis Advisor:

Undergraduate Honors

Eckerd College - Craig Rose F91/S92

UNCW - Andrea Wimmers, F97/S98; Amy Dixon, F98/S99; Darin Crew, F98/S99; Steven van Sluyter S02/F02

Graduate- Master's

UNCW - Lesley Murphy, 2000; Jill Paxson, 2002; John Hackney, 2003; James Henne, 2001; Ron Dean, 2002; Paula Whitfield, 2002; Jennifer Kunzelman, 2003; Amanda Kahn 2004; Robert

York, 2005; J. Brooke Landry, 2005; Elizabeth F. Belshe, 2005; Kathryn Chartrand, 2007; Nathan Gavin 2008; Nina Griffin, 2009; Jacqueline Corbett 2009; Melissa Genazzio 2012.

Graduate- Ph.D.

Amanda Kahn, 2008; Nathan Gavin 2010

Thesis Committee Member:

Undergraduate Honors

UNCW - Juliet Christian, F98/S99; Laura Stalnaker, S98/F99; Ingrid Fricks S01/F01; Nikki Volmer F01/S02, Carrie Hett F06/S07

Graduate- Master's

USF - Mary Beth Neeley 1996, Craig Rose 1996, Donna Berns 2003
UNCW -Sebastian Engel, 2000; Barbara Wilson, 2000; Thomas McGinnis, 2002;; Lee Richbourg, 2006; Erin Zook, 2007; Sondi Hoffman, 2009; Jennifer Idol, 2012; Alex Davila, 2013.

Graduate - Ph.D.

USF - Eva Maria Wusk Koch
FIU – Justin Campbell

Post-doctoral Research Fellows supervised

Dr. Piotr Kowalczyk - 2001-2003
Dr. Marnie L. Campbell - 2003-2004
Dr. Wendy L. Woods - 2003-2005

Courses Taught

1985-1996 - University of South Florida, Department of Marine Science. Course: Biological Oceanography and Introduction to Oceanography. Lecture: Marine macrophytes, Algae, Seagrasses.

Marine and Freshwater Botany, Lecture and Lab. MSN/BIN188 Eckerd College. S96.

Marine and Freshwater Botany, Lecture and Lab. BIO485/585 The University of North Carolina at Wilmington. F97, S99.

Marine Botany, Lecture and Lab. BIO312 University of North Carolina Wilmington. S00, S01, S02, S03, S05, S06, S07, S08, S09, S10, S11, S12, S13, Summer: 09, 10, 11, 12, 13.

Plant Physiology, Lecture and Lab. BIO340 University of North Carolina Wilmington. F99, F01, F03, F05, F06, F07, F08, F10, F12, F13.

Ecology, Lab. BIO366 University of North Carolina Wilmington. F97

Introduction to Botany, Lab. BIO205 University of North Carolina Wilmington. S98, F98, S99, F99, S00, F00, S01.

Photosynthesis and Light in Aquatic Systems, seminar. BIO495 University of North Carolina Wilmington. S98, S03, S08, F08, S10, S11, S12, S13.

Aquatic and Wetland Plant Taxonomy. BIO575 University of North Carolina Wilmington. F98, F00, F02, F04.

Seagrass Population Dynamics, seminar. BIO495 University of North Carolina Wilmington. S99.
Oceanography Core. BIO602 Lecture: Seagrasses. University of North Carolina Wilmington.
S03.

Critique of Scientific Literature BIO596. University of North Carolina Wilmington. S07, S09,
F09, F10, F12, F13.

Aquatic Photosynthesis, seminar. BIO495 University of North Carolina Wilmington. F08.

Professional Societies

Sigma Xi (full member)	American Society of Limnology and Oceanography
Coastal & Estuarine Research Federation	Southeastern Estuarine Research Society

Extramural Funding (56 Awards totaling >\$7,00,000; 35@UNCW: >\$5,000,000)

2013-2014

Florida Bay water quality synthesis. Florida Fish & Wildlife Conservation Commission.
(\$40,000)

2011-2013

Measuring photosynthetic characteristics of Turtlegrass for the South Florida Fish Habitat
Assessment Program. Florida Fish & Wildlife Conservation Commission. (\$60,000)

2011-2013

Determining the resilience to salinity stresses in the threatened seagrass *Halophila
johnsonii*. National Marine Fisheries Service, NOAA, Endangered Species Office,
\$29,470.

2010-2011

Habitat-based variation in oxidative stress and antioxidant capacity in *Halophila
johnsonii*: a pilot study. National Marine Fisheries Service, NOAA, Endangered Species
Office, \$30,450.

2010-2011

Measuring photosynthetic characteristics of Turtlegrass for the South Florida Fish Habitat
Assessment Program. Florida Fish & Wildlife Conservation Commission. (\$125,000)

2009-2011

Establishing the salinity tolerance of *Halophila johnsonii*. National Marine Fisheries
Service, NOAA, Endangered Species Office, \$24,200.

2009-2010

Measuring photosynthetic characteristics of Turtlegrass for the South Florida Fish Habitat
Assessment Program. Florida Fish & Wildlife Conservation Commission. (\$60,000)

2008-2010

Tissue Localization of Flavonoid Compounds in *Halophila johnsonii*: Depth and salinity
effects. National Marine Fisheries Service, NOAA, Endangered Species Office, \$21,000.

2007-2008

Tissue Localization of Flavonoid Compounds in *Halophila johnsonii*: National Marine
Fisheries Service, NOAA, Endangered Species Office, \$21,883.

2005-2008

Florida Fish & Wildlife Conservation Commission. Measuring photosynthetic
characteristics of Turtlegrass for the South Florida Fish Habitat Assessment Program.

- (\$200,000)
- 2005-2007
Experimental investigation of hurricane-related changes in water quality on the photobiology of *Halophila johnsonii*. National Marine Fisheries Service. (\$29,709)
- 2005-2007
Effects of hurricanes on the distribution of *Halophila johnsonii*. National Marine Fisheries Service. (\$89,855)
- 2005-06
NOAA/UNCW. Coastal Ocean Research and Monitoring Program. (\$2,770,694)
- 2004-2005
Florida Fish & Wildlife Conservation Commission. South Florida Fish Habitat Assessment Program. (\$106,000)
- 2004-05
NOAA/UNCW CORMP. Optical characterization of the waters of Onslow Bay, the Cape Fear River plume and coastal southeastern Carolina. (\$87,667)
- 2003-04
Effects of irradiance levels and hydrodynamics on seagrass photophysiology and photochemistry. Charles L. Cahill Award for Faculty Research and Development. (\$2,350)
- 2002-05
South Florida Water Management District/FAU. High salinity, nutrient and multiple stressor effects on seagrass communities of NE Florida Bay: Salinity effects on seagrass seedling development. (\$148,863)
- 2002-03
NOAA/NMFS. Detecting evidence for sexual reproduction and genetic diversity in flowering populations of *Halophila johnsonii*. (\$24,000)
- 2002-03
US Geological Survey: Fisheries Habitat Assessment Program - Florida Bay, (\$127,825)
- 2002-03
NOAA/UNCW CORMP. Optical characterization of the waters of Onslow Bay, the Cape Fear River plume and coastal southeastern Carolina. (\$87,667)
- 2001-02
NOAA/NMFS. Detailed survey and assessment of the baseline distribution of *Halophila johnsonii* at its southern distributional limit. (\$50,000)
- 2001-02
NOAA/UNCW CORMP. Optical characterization of the waters of Onslow Bay, the Cape Fear River plume and coastal southeastern Carolina. (\$100,187/\$925,000 total CORMP)
- 2001
USACOE/SeaGrant: Creation of a smooth cordgrass tidal marsh using seedlings optimized for transplantation survival. (\$3900)
- 2000-02
US Geological Survey: Fisheries Habitat Assessment Program - Florida Bay, (\$121,843)
- 2000-01
NOAA/NOS. Reproductive biology, population dynamics, dispersal, and genetic

- 2000 diversity of the endangered seagrass, *Halophila johnsonii*. (\$38,106)
- 2000 NOAA/UNCW Marine Monitoring Program. Optical Characterization of the Waters of Onslow Bay and the Cape Fear River Plume (\$43,882)
- 2000 UNCW/CMS: Identifying Optimal Propagation Conditions for Greenhouse-Grown *Spartina alterniflora* seedlings (\$25,349)
- 2000 Florida International University: The Statistical Relationship between Benthic Habitats and Water Quality in Florida Bay: An Ecologically Relevant Performance Measure for Responding to the USACOE Restudy (\$9,015)
- 1999-00 US Geological Survey: Fisheries Habitat Assessment Program - Florida Bay, (\$118,721)
- 1999 North Carolina Sea Grant - ASB Coastal Ecology Symposium (\$3,730)
- 1998-99 Florida Keys National Marine Sanctuary: Water Quality Monitoring Program -Seagrass Monitoring (\$45,616)
- 1998-99 US Geological Survey: Fisheries Habitat Assessment Program - Florida Bay, (\$203,432)
- 1998 UNCW/CMSR: Compilation and Analyses of Reconstructive Aging Data from Florida Bay FHAP Samples to Assess Basin-specific and Bay-wide Changes in *Thalassia testudinum* Short-shoot Demography (\$4,500)
- 1998-99 Florida Department of Environmental Protection/ US EPA: Multiscale Assessment of the Morphometrics and Demography of *Thalassia testudinum* (Turtle grass): A New Approach to Ecosystem Assessment (\$61,663)
- 1998 University of Florida/ SFWMD: Laboratory microcosm experiments and analysis to test the effect of salinity fluctuation on the physiological health growth and biochemistry of submersed estuarine plants common to northern Florida Bay (\$27,400)
- 1997-1998 Florida Keys National Marine Sanctuary: Water Quality Monitoring Program - Seagrass Monitoring (\$45,000)
- 1996-1999 Environmental Protection Agency: Multiscale Assessment of the Population Status of *Thalassia testudinum*: A New Approach to Ecosystem Assessment (\$870,033)
- 1996 Florida Keys National Marine Sanctuary: Water Quality Monitoring Program - Seagrass Monitoring (\$48,000)
- 1995-98 South Florida Water Management District: Responses of Submersed Macrophytes to

- 1995 Fresh Water Inflow to Florida Bay (\$55,000)
- 1995 Florida Keys National Marine Sanctuary: Water Quality Monitoring Program - Seagrass Monitoring (\$48,000)
- 1995 Florida Department of Environmental Protection, Fisheries-Habitat Assessment Program- Florida Bay (\$100,000)
- 1994-96 Environmental Protection Agency - EMAP, Evaluation of Ecological Indicators of Estuarine Trophic State (\$440,000)
- 1994 Florida Department of Environmental Protection, Fisheries-Habitat Assessment Program- Florida Bay (\$130,000)
- 1994 Florida Keys National Marine Sanctuary: Water Quality Monitoring Program -Seagrass Monitoring (\$30,000)
- 1994 Florida Department of Environmental Protection, Pollution Recovery Trust Fund: Biological Resource Assessment of Florida Bay, Study 2 Macrophytes and Mangroves (\$30,000)
- 1993 National Oceanic and Atmospheric Administration, Coastal Ocean Program: Development of *In vitro* propagation technologies for marine seagrasses for use in habitat restoration and genetic characterization of seagrass populations (\$85,000)
- 1993 Sarasota Bay National Estuary Program: New Approaches to Seagrass Restoration. CE994428-93-0 (\$22,000)
- 1993 Environmental Protection Agency, Gulf of Mexico Program: A bioassay approach to seagrass restoration (\$54,400)
- 1992 National Oceanic and Atmospheric Administration: Mt. Mitchell/ROPME 100 Day cruise for the assessment of the ecological effects of the Persian Gulf War. Leg II- Nearshore biogeochemical processes and community ecology (\$4,500)
- 1991 Everglades National Park: Photosynthetic capacity as a correlate of *Thalassia testudinum* die-back in Florida Bay, CA5280-1-9008 (\$8,561)
- 1990-1993 National Oceanic and Atmospheric Administration, Coastal Ocean Program: Acceleration and evaluating development of restored and created seagrass ecosystems (\$64,579)
- 1990 Office of Coastal Zone Management: Investigations on the causes, extent, and characteristics of a seagrass die-back in Everglades National Park/Florida Bay, CM-283

- (\$49,786)
- 1989 Office of Coastal Zone Management: Investigations on the causes, extent, and characteristics of a seagrass die-back in Everglades National Park/Florida Bay, CM-257 (\$96,127)
- 1989 United States Fish and Wildlife Service: Florida marine animal health and contamination assessment - Study III. Studies on seagrass die-back in Florida Bay (\$59,080)
- 1989 Everglades National Park: Evaluation of seagrass die-off in Florida Bay (\$18,660)
- 1988-1990 Office of Coastal Zone Management: Habitat dependency and fishery resources - Carbon uptake in *Thalassia* sub-task (\$12,000)

Peer-Reviewed Journal Publications (87) (Student authors in bold)

- Gavin N. M.**, Durako, M. J. 2014. Population-based variation in resilience to hyposalinity stress in *Halophila johnsonii*. *Bulletin of Marine Science* 90(3): 781-794.
- Howarth, J. F.**, Durako, M. J. 2013. Variation in pigment content of *Thalassia testudinum* seedlings in response to changes in salinity and light. *Botanica Marina* 56: 261-272.
- Howarth, J. F.**, Durako, M. J. 2013. Diurnal variation in chlorophyll fluorescence of *Thalassia testudinum* seedlings in response to controlled salinity and light conditions. *Marine Biology* 160: 591-605.
- Kahn, A. E.**, Beal, J. L., Durako, M. J. 2013. Diurnal and tidal variability in photobiology of the seagrass *Halophila johnsonii* in a riverine versus marine habitat. *Estuaries and Coasts* 36: 430-443.
- Griffin, N. E.**, Durako, M. J., 2012. The effect of pulsed versus gradual salinity reduction on the physiology and survival of *Halophila johnsonii* Eiseman. *Marine Biology* 159: 1439-1447.
- Gavin, N. M.**, Durako, M. J. 2012. Localization and antioxidant capacity of flavonoids in *Halophila johnsonii* in response to experimental light and salinity variation. *J. Experimental Marine Biology and Ecology* 416-417: 32-40.
- Durako, M. J. 2012. Using PAM fluorometry for landscape-level assessment of *Thalassia testudinum*: Can diurnal variation in photochemical efficiency be used as an ecoindicator of seagrass health? *Ecological Indicators* 18: 243-251.
- Gavin, N. M.**, Durako, M. J. 2011. Localization and antioxidant capacity of flavonoids from intertidal and subtidal *Halophila johnsonii* and *Halophila decipiens*. *Aquat. Bot.* 95: 242-247.
- Durako, M. J., Kowalczyk, P., Mallin, M. A., Cooper, W. J., Souza, J. J., Wells, D. H., 2010. Spatial and temporal variations in photosynthetically-significant optical properties and water quality in a coastal blackwater river plume. *Estuaries & Coasts* 33: 1430- 1441.
- Kowalczyk, P., Cooper, W. J., Gonsior, M., Durako, M. J., **Young, H.**, **Kahn, A. E.** 2010. Characterization of dissolved organic matter fluorescence in the South Atlantic Bight using the PARAFAC model: Relationships between fluorescence and its components, absorption coefficients and organic carbon concentrations. *Marine Chemistry* 118: 22-36.

- Durako, M. J., **Chartrand, K. M.** 2009. Changes in spectral reflectance in response to salinity variation in *Siderastrea radians* from Florida Bay, Florida USA. Proceedings of the 11th International Coral Reef Symposium, Ft. Lauderdale, Florida, pp 607-610.
- Kahn, A. E.**, Durako, M. J. 2009. Wavelength-specific photosynthetic responses of *Halophila johnsonii* from marine versus riverine-influenced habitats. *Aquatic Botany* 91: 245-249.
- Chartrand, K. M.**, Durako, M. J., Blum, J.E. 2009. Effect of hypo-salinity on the photophysiology of *Siderastrea radians*. *Marine Biology* 156: 1691-1702
- Kowalczuk, P., Durako, M. J., **Young, H.**, **Kahn, A. E.**, Cooper, W. J., Gonsior, M. 2009. Characterization of dissolved organic matter fluorescence in the South Atlantic Bight with use of PARAFAC model: Inter-annual variability. *Marine Chemistry* 113: 182-196.
- Chartrand, K. M.**, Durako, M. J. 2009. Distribution and photobiology of *Siderastrea radians* and *Thalassia testudinum* in Florida Bay, FL USA. *Bulletin of Marine Science* 84(2):153-166
- Kahn, A. E.**, Durako, M. J., 2009. Photosynthetic tolerances to desiccation of the co-occurring seagrasses *Halophila johnsonii* and *Halophila decipiens*. *Aquatic Botany* 90: 195-198.
- Kahn, A. E.**, Durako, M. J. 2008. Photophysiological responses of *Halophila johnsonii* to experimental hyposaline and hyper-CDOM conditions. *J. Experimental Marine Biology and Ecology* 367: 230-235.
- Meng, Y. **Krzyasiak, A. J.**, Durako, M. J., **Kunzelman, J. I.**, Wright, J. L. C. 2008. Flavones and flavone glycosides from the sea grass *Halophila johnsonii*. *Phytochemistry* 69: 2603-2608.
- Belshe, E. F.**, Durako, M. J., Blum, J. E. 2008. Diel light curves and landscape-scale variation in photosynthetic characteristics of *Thalassia testudinum* in Florida Bay. *Aquatic Botany* 89:16-22.
- Lin, J., Xie, L., Pietrafesa, L.J., Xu, H., **Woods, W.**, Mallin, M. A., Durako, M.J. 2008. Water quality modeling in the Cape Fear River estuary and its adjacent coastal region, North Carolina. *Ecological Modeling* 212: 200-217.
- York, R. A.**, Durako, M. J., Kenworthy, W. J., Freshwater, D. W. 2008. Megagametogenesis in *Halophila johnsonii* Eiseman and *Halophila decipiens* Ostenfeld (Hydrocharitaceae). *Aquatic Botany* 88:277-282.
- Ralph, P.J, Durako, M. J., Enriquez, S., Collier, C., Doblin, M.A. 2007. Impact of light limitation on seagrasses. *J. Exp. Mar. Biol. Ecol.* 350, 176-193.
- Dean, R. J.**, Durako, M. J. 2007. Physiological integration in the threatened seagrass: *Halophila johnsonii* Eiseman. *Bull. Mar. Sci.* 81(1):21-35.
- Durako, M. J. 2007. Leaf optical properties and leaf-specific photosynthetic absorptances in several Australian seagrasses. *Aquat. Bot.* 87: 83-89.
- Belshe, E. F.**, M. J. Durako, and J.E. Blum. 2007. Photosynthetic rapid light curves (RLC) of *Thalassia testudinum* exhibit diurnal variation. *J. Exp. Mar. Biol. Ecol.* 342: 253-268.
- Kowalczuk, P.**, Durako, M.J., Cooper, W.J., Wells, D., Souza, J.J. 2006. Comparison of radiometric quantities measured in water and above water and derived from SeaWiFS imagery in the South Atlantic Bight. *Continental Shelf Research* 26: 2433-2453.
- Lin, J., Xie, L., Pietrafesa, L.J., Shen, J., Mallin, M., Durako, M. 2006. Dissolved oxygen stratification in two micro-tidal partially-mixed estuaries. *Est. Coastal Shelf Sci.* 70: 423-437

- Kahn, A. E.,** Durako, M. J. 2006. *Thalassia testudinum* seedling responses to changes in salinity and nitrogen. *J. Exp. Mar. Biol. Ecol.* 335: 1-12.
- Kahn, A. E.,** Durako, M. J. 2005. The effect of salinity and ammonium on seed germination in *Ruppia maritima* L. From Florida Bay. *Bull. Mar. Sci.* 77(3): 453-458.
- Torquemada, Y. F.,** Durako, M. J., Lizaso, J. L. S. 2005. Salinity effects and possible interactions with pH and temperature on photosynthesis and growth of *Halophila johnsonii* Eiseman. *Mar. Biol.* 148: 251-260.
- Kunzelman, J. I.,** Durako, M. J., Kenworthy, W. J., Stapleton, A., Wright, J. C. L. 2005. Irradiance-induced changes in the photobiology of *Halophila johnsonii* Eiseman. *Mar. Biol.* 148: 241-250.
- Kowalczyk, P.,** J. Stoń-Egiert, W.J Cooper, R.F. Whitehead, and M.J. Durako. 2005. Characterization of CDOM in the Baltic Sea by excitation-emission matrix spectroscopy. *Mar. Chem.* 96: 273-292.
- Van Sluyter, S.,** M.J. Durako, and C. J. Halkides. 2005. Chitinase activities in *Vitis vinifera* cvs Chardonnay and Cabernet Sauvignon berries are significantly higher than in *Vitis rotundifolia* cv Fry berries. *Am. J. Enology and Viticulture* 56(1):81-85.
- Mallin, M. A., L. B. Cahoon, and M. J. Durako. 2005. Contrasting food-web support bases for adjoining river-influenced and non-river influenced continental shelf ecosystems. *Est. Coastal Shelf Sci.* 62:55-62.
- Runcie, J. W. and M. J. Durako. 2004. Absorbance measurements improve diel estimates of in situ electron transport of *Posidonia australis*. *Aquat. Bot.* 80:209-220.
- Hackney, J. W.** and M. J. Durako. 2004. Size-frequency patterns in morphometric characteristics of the seagrass *Thalassia testudinum* reflect environmental variability. *Ecol. Indicators* 4: 55-71.
- Whitfield, P.E.,** W. J. Kenworthy, M. J. Durako, K. K. Hammerstrom, and M. F. Merello. 2004. Recruitment of *Thalassia testudinum* seedlings into physically disturbed seagrass beds. *Mar. Ecol. Prog. Ser.* 267: 121-131.
- Kowalczyk, P.,** W.J Cooper, R.F. Whitehead, M.J. Durako, and W. Sheldon. 2003. Characterization of CDOM in an organic-rich river and surrounding coastal ocean in the South Atlantic Bight. *Aquat. Sci.* 65: 381-398.
- Durako, M. J., **J. I. Kunzelman,** W. J. Kenworthy, and K. K. Hammerstrom. 2003. Depth-related variability in the photobiology of *Halophila johnsonii* and *Halophila decipiens*. *Mar. Biol.* 142: 1219 - 1228.
- Fourqurean, J. W., J. N. Boyer, M. J. Durako, L. N. Hefty, and B. J. Peterson. 2003. The response of seagrass distribution to changing water quality: predictive models from monitoring data. *Ecol. Appl.* 13(2): 474-489.
- Carlson, P. R., L. A. Yarbro, K. Madley, H. Arnold, M. Merello, L. Vanderbloemen, G. McRae, M J. Durako. 2003. Effect of El Niño on demographic, morphological, and chemical, parameters in Turtle-grass (*Thalassia testudinum*): An unexpected test of indicators. *Environmental Monitoring and Assessment* 81: 393-408.
- Murphy, L. R.,** S. T. Kinsey, and M. J. Durako. 2003. Physiological effects of short-term salinity changes on *Ruppia maritima*. *Aquat. Bot.* 75: 293-309.

- Durako, M. J., and **J. I. Kunzleman**. 2002. Photosynthetic characteristics of *Thalassia testudinum* Banks ex König measured *in situ* by pulse amplitude modulated (PAM) fluorometry: methodological and scale-based considerations. *Aquat. Bot.* 73: 173-185.
- Durako, M. J. 2000. Seagrass die-off in Florida Bay (USA): does this phenomenon represent a trend for coastal waters in the new millenium? In: C. Sheppard (ed.), *Seas at the Millenium: An Environmental Evaluation*, Elsevier, Amsterdam. Pp15-17.
- Durako, M. J., M. O. Hall. 2000. After the die-off: Seagrass dynamics in a perturbed subtropical lagoon. *Biologia Marina Mediterranea* 7(2): 365-368.
- Durako, M. J. 1999. Changes in seagrass abundance and diversity: Is this a good thing? *ASB Bulletin* 46(4):273-285.
- Stumpf, R. P., Frayer, M. L., Durako, M. J., Brock, J. C. 1999. Variations in water clarity and bottom albedo in Florida Bay from 1985 to 1997. *Estuaries* 22 (2B): 431-444.
- Hall, M. O., Durako, M. J., Fourqurean, J. W., Zieman, J. C. 1999. Decadal-scale changes in seagrass distribution and abundance in Florida Bay. *Estuaries* 22 (2B): 445-459.
- Durako, M. J., Duarte, C. M. 1997. On the use of reconstructive aging techniques for assessing seagrass demography: a critique of the model test of Jensen et al. (1996). *Mar. Ecol. Prog. Ser.* 146:297-303.
- Jupp, B. P., Durako, M. J., Kenworthy, W. J., Thayer, G. W., and Schillak, L. 1996. Distribution, abundance, and species composition of seagrasses at several sites in Oman. *Aquat. Bot.* 53:199-213.
- Durako, M. J., Shup, J. J. , DeLeon, M. F., and Daeschner, S. W. 1995. A bioassay approach to seagrass restoration. Pp. 44-55 In: F.J. Webb and P. J. Cannizzaro (eds) *Proceedings of the Annual Conference on Ecosystem Restoration and Creation*, Hillsborough Community College Tampa, FL.
- DeLeon, M. F., Durako, M. J., Shup, J. J. , and Daeschner, S. W. 1995. Real-world considerations for micropropagating *Ruppia maritima* L. (Widgeon Grass) for seagrass restoration projects. Pp. 27-38 In: F.J. Webb and P. J. Cannizzaro (eds.) *Proceedings of the Annual Conference on Ecosystem Restoration and Creation*, Hillsborough Community College Tampa, FL.
- Durako, M. and F. Wettstein. 1994. Johnson's seagrass: the Rodney Dangerfield of seagrasses. *The Palmetto* 14(3): 3-5.
- Rose, C.D.** and M.J. Durako. 1994. Induced photomorphogenesis by an altered R:FR light ratio in axenic *Ruppia maritima* L. *Bot. Mar.* 37:531-535.
- Durako, M. J. 1994. Seagrass die-off in Florida Bay (USA): changes in shoot demography and populations dynamics. *Mar. Ecol. Prog. Ser.* 110:59-66.
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Invited Papers Presented (25) (Student authors in bold)

- Benthic Habitats. Durako, M. J., Hall. M. O., Behringer, D., Butler, M. Florida Bay Science Conference, Naples, FL, Dec 7-11, 2008.
- Landscape-scale approaches to the assessment of seagrasses in a perturbed subtropical ecosystem. Durako, M.J., Hall. M.O., and Merello, M. Invited session: “New Conceptual Approaches for the Assessment and Evaluation of Seagrass Ecosystems Under Stress” 17th International Conference of the Estuarine Research Federation, Seattle, WA. Sept. 14-18, 2003.
- Distribution and abundance of the threatened seagrass *Halophila johnsonii* at it’s southern distribution limit. Durako, M.J., **J. I. Kunzleman**, and M. Merello. NOAA *Halophila johnsonii* Monitoring Workshop, St. Petersburg, FL. Feb 25-26, 2003.
- Seagrass dynamics in Florida Bay: The effects of turbidity, hurricanes, and die-off. Invited seminar speaker. Dauphin Island Sea Lab, Fall Seminars, 26 October 2001.
- Shoot-to-landscape scale dynamics of seagrasses in Florida Bay: A tale of die-off, turbidity, hurricanes (and more die-off). Invited seminar speaker: University of Maryland, Horn Point Laboratory Fall 2001 Seminar Series, September 21, 2001.
- Seagrass dynamics in a perturbed subtropical lagoon. Invited seminar speaker. Florida Institute of Technology, March 19, 2001.
- Regrowth of seagrasses into experimental “propellor” scars: Climax- versus pioneer-species patterns. Durako, M.J. Workshop on Impacts of Motorized Boats on Shallow Water Systems. Rutgers University, November 7, 2000.
- After the die-off: Recent large- and small-scale changes in the seagrass communities in Florida Bay. Invited seminar: Florida Sea Grant Elise B. Newell Seminar Series, Florida Gulf Coast University, February 25, 2000.
- Changes in seagrass abundance and diversity: Is this a good thing? Durako, M. J. Coastal Ecology Symposium, ASB Annual Meetings, Wilmington, NC. April 1999
- Changes in the Distribution, abundance and species composition of Florida Bay seagrasses:1995-1997. Florida Bay Science Conference, Miami, FL. May, 1998.
- Plant-scale considerations in conceptual models of seagrasses in Florida Bay. Workshop on Seagrass Modeling, Research and Monitoring Needs in Florida Bay. Key Largo, FL. January 1998.

The use of micropropagation for producing SAV transplant units. Chesapeake Bay SAV Restoration Workshop. Annapolis, MD. March 1997.

The status and trends of seagrass communities in Florida Bay. 1996 Florida Bay Science Conference. Key Largo, FL. December 1996.

Status of Florida Bay seagrasses. USACOE Workshop on the Design and Specifications for the Florida Bay Water Quality Model, Key Largo, FL. October, 1996.

Florida Department of Environmental Protection's Fisheries Habitat Assessment Program (FHAP): An Assessment of Macrophyte Distribution and Abundance on a Florida Bay-Wide Scale. Florida Bay Science Conference, Gainesville, FL. October, 1995.

Florida Bay seagrasses - what do they tell us about the Florida Bay ecosystem, 125th Annual Meeting of the American Fisheries Society, Tampa, FL. August 1995.

Seagrass habitats and seagrass research in Florida, USACOE Seagrass Mitigation Workshop, Jacksonville, FL. April, 1993.

Seagrass die-off in Florida Bay. 1992 Gulf of Mexico Symposium, Tarpon Springs, FL. December, 1992.

Large scale dieback of seagrasses in Florida Bay: Is it a natural occurrence or man-induced. Tri-State Conference on Preservation and Management of Coastal and Estuarine Resources, Gulf Shores, AL. March, 1990.

Growth responses of light- and dark-cultivated axenic *Thalassia testudinum* seedlings to organic carbon amendment and pH. American Society of Limnology and Oceanography Fall Meetings, 1988.

Seagrass dynamics in St. Andrews Bay. Bay Environmental Study Team (BEST) Summer meeting, Panama City, FL. 1988.

Factors affecting the reproductive ecology of seagrass. Symposium: Environmental Impacts on Seagrass, Eighth Biennial Estuarine Research Conference, Durham, NH. August, 1985.

Coastal fisheries and habitats-Issues and impacts: Northeast Florida. Fish Habitat Symposium: Growth Impacts on Coastal N.E. Florida and Georgia, Jacksonville, FL. 1985.

Salt marsh habitat and fishery resources. Symposium on Florida's Aquatic Habitats and Fishery Resources, Am. Fish. Soc., Fla. Chap. Third Ann. Meeting, Brooksville, FL. 1983.

Seagrass meadows of Tampa Bay: A review. Bay Area Scientific Information Symposium (BASIS), Tampa, FL. May, 1982.

Presentations Authored or Co-Authored (Student authors in bold)

Genazzio, M.A.², Durako, M.J. 2014. Diurnal variation in photochemical efficiency of *Thalassia testudinum*, turtle grass, in response to repeated shading events. 2014 Benthic Ecology Meetings, Jacksonville. FL, Mar 20-23, 2014.

Durako, M. J., Rasheed, M. 2013. Seagrass leaf spectral reflectance indicates species resilience to light and tidal variation. Coastal & Estuarine Research Federation, San Diego, CA, Nov 4, 2013.

Gavin, N. M.³, Durako, M.J. 2013. Population-based variation in resilience to hyposalinity stress in *Halophila johnsonii* Eiseman. Coastal & Estuarine Research Federation, San Diego, CA, Nov 6, 2013.

- Genazzio, M. A.**² and Durako, M.J. 2013. Diurnal variation in photochemical efficiency of *Thalassia testudinum*, turtle grass, in response to short-term changes in light availability. Coastal & Estuarine Research Federation, San Diego, CA, Nov 6, 2013.
- Durako, M.J. 2012, Reflections from down under: Bio-optical properties of Australian seagrasses. UNCW Department of Biology and Marine Biology Departmental seminar, September 21, 2012.
- Gavin, N. M.**³, Durako, M.J. 2012, Southeast Phycological Colloquy, "Resilience to hyposalinity in *Halophila johnsonii*" (October 20, 2012).
- Gavin, N. M.**², Durako, M. J. Durako, M. J., CERF 2011, Coastal & Estuarine Research Federation, Daytona Beach, FL, "Are there diurnal changes in photoprotective mechanisms in leaves of intertidal and subtidal *Halophila johnsonii*?", Academic, International, Accepted. (November 9, 2011).
- Durako, M. J., **Howarth, J. F.**² Howarth, J. F., CERF 2011, Coastal & Estuarine Research Federation, Daytona Beach, Florida, "Changes in leaf spectral reflectance of *Thalassia testudinum* seedlings in response to salinity variation and light reduction", Academic, International, Accepted. (November 9, 2011).
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- Durako, M. J., Hall, P., Merello, M., Landry, J., Berns, D. Hall, P., Merello, M., Landry, J., Berns, D., World Seagrass Conference, World Seagrass Association, Phuket, Thailand, "Using seagrasses as indicators of ecosystem change: The importance of long-term data", Academic, International. (November 24, 2010).
- Gavin, N.**², Durako, M. J. Durako, M. J., World Seagrass Conference, World Seagrass Association, Phuket, Thailand, "Flavonoid compounds in *Halophila johnsonii* and *Halophila decipiens*: localization and antioxidant activity", Academic, International. (November 23, 2010).
- Gavin, N.**², Durako, M. J. Durako, M. J., Southeast Phycological Colloquy, UNCW, "Antioxidant capacity of flavonoids in *Halophila johnsonii* Eiseman in response to light and salinity variation", Academic, Regional, Accepted. (October 30, 2010).
- Griffin, N.**², Durako, M. J. Durako, M. J., Southeast Phycological Colloquy, UNCW, "Determining the minimum salinity threshold of the threatened seagrass, *Halophila johnsonii*, under a pulsed versus gradual salinity reduction", Academic, Regional. (October 30, 2010).
- Corbett, J.**², Durako, M. J. Durako, M. J., Southeast Phycological Colloquy, UNCW, "Does diurnal variation in fluorescence of *Thalassia testudinum* reflect its physiological state?", Academic, Regional, Accepted. (October 30, 2010).
- Testing Coral Transplant Performance: Aquarius Coral Restoration/Resilience

- Experiments (ACRRE). M. W. Miller, D. E. Williams, L. Johnston, M. Durako, C. Woodley and I. B. Baums. Linking Science to Management: A Conference & Workshop on the Florida Keys Marine Ecosystem, 19-22 October, 2010.
- Localization and antioxidant activity of flavonoid compounds in *Halophila johnsonii* and *Halophila decipiens*. **Gavin, N. M.**, Durako, M. J. Benthic Ecology Meetings, Mar. 11-13, 2010, Wilmington, NC
- Assessing seagrass health at the landscape level using chlorophyll fluorescence: Diurnal variations and maybe a way to deal with it. Durako, M. J. 20th Biennial Coastal and Estuarine Research Federation Conference, 1-5 November, Portland, OR.
- Florida Bay Benthic Habitats: Past, Present & Future. Durako, M. J. UNCW Departmental Seminar, January 23, 2009.
- Diurnal tidal responses of the seagrass *Halophila johnsonii* physiology in a riverine versus marine influenced habitat. **Kahn A. E.**, Beal, J. L., Durako, M. J. S.E. Estuarine Res. Soc. Semi-Annual Meeting, Nov. 13-15, 2008, Tampa, FL.
- Wavelength-specific photosynthetic responses of *Halophila johnsonii* from marine versus riverine-influenced habitats. **Kahn, A. E.**, Durako, M. J. SE Estuarine Research Society, Semi-Annual Meeting, Nov. 13-15, 2008, Tampa, FL.
- Seagrass as indicators of ecosystem change in South Florida estuaries. Hall, M. O., Durako, M.J., Berns, D., **Kunzelman, J.**, Toth, K. Florida Bay Science Conference, Naples, FL, Dec 7-11, 2008.
- SAV as Indicators of Ecosystem Change in South Florida Estuaries. Margaret O. Hall, Michael J. Durako, Manuel Merello, Donna Berns, **Jennifer Kunzelman**, **Brooke Landry**, Katie Toth, Diego Lirman, Greg Deangelo, Ligia Collado, Travis Thyberg, James Herlan, Caitlin Burman and Rolando Santos. Greater Everglades Ecosystem Restoration Conference, Naples, FL, July 28-August 1, 2008.
- The photobiology of *Symbiodinium* indicates populational differences in hyposaline tolerance in *Siderastrea radians* from Florida Bay, Florida USA. **Chartand, K.**, Durako, M. 11th International Coral Reef Symposium, Ft. Lauderdale, FL July 7-11, 2008
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- In situ* responses of *Halophila johnsonii* to hurricane-like water quality conditions. **Kahn, A. E.**, Durako, M. J., Beal, J. L. Estuarine Research Federation Meetings, Providence, R. I., November 4-9, 2007.
- Leaf optical properties and photosynthetic leaf absorptances in seagrasses. Durako, M. J. Estuarine Research Federation Meetings, Providence, R. I., November 4-9, 2007.
- Seagrasses as Indicators of Ecosystem Change in South Florida Estuaries. Hall, M. O., Durako, M. J. Estuarine Research Federation Meetings, Providence, R. I., November 4-9, 2007.
- Glider bio-optical observations incorporated into a coastal observing program in Onslow Bay, NC. Woods, W.L., S. R. Hall, J. L. Williams, M. J. Durako, **E. F. Belshe**, L. B. Cahoon. 2006 Ocean Optics Meeting. Montreal, CA, 9 October 2006.
- Observations of interannual variability of Chromophoric Dissolved Organic Matter (CDOM) composition in the South Atlantic Bight using PARAFAC analysis. Piotr Kowalczyk, P.,

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