

Tiffany G. Troxler, Ph.D.

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Associate Research Professor, Southeast Environmental Research Center (SERC), Institute
of Water and Environment & Department of Biological Sciences,
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EDUCATION

- 2005 Doctor of Philosophy: Biological Sciences. Department of Biological Sciences, Florida International University, Miami, FL 33199; Dr. Daniel Childers, major advisor
“Investigating Ecosystem Responses to Hydrologic Change and Mechanisms for Nitrogen Sequestration in Seasonally Flooded Tree Islands of the Southern Everglades”
- 2001 Master of Science: Biological Sciences. Department of Biological Sciences, Florida International University, Miami, FL 33199; Dr. Daniel Childers, major advisor
“Investigating Tree Island Community Response to Increased Water Flow on Seasonally Flooded Tree Islands in the Southern Everglades”
- 1997 Bachelor of Science: Environmental Sciences. Department of Environmental Studies, Florida International University, Miami, FL 33199
- 1993 Bachelor of Arts: Anthropology. Department of Anthropology, Tulane University, New Orleans, LA 70118; Minor: Ecology. Department of Ecology, Evolution, and Organismal Biology

RESEARCH INTERESTS

Coastal and freshwater wetland ecosystem dynamics; urban resilience and natural-built infrastructure; interdisciplinary science; regional to global environmental change; conservation, management and restoration of wetland ecosystems; ecosystem carbon assessment; carbon-water interactions; plant-soil interactions along urban and environmental gradients

PROFESSIONAL EXPERIENCE

Research Experience

- 2018 – present Director of Science and Founding Director, Sea Level Solutions Center, Florida International University
- 2015 – 2018 Director, Sea Level Solutions Center, Florida International University
- 2018 – present Research Associate Professor, Southeast Environmental Research Center and Department of Biological Sciences, Florida International University, Miami, FL

- 2011 – 2013 Program Officer (Wetland Expert) and Visiting Researcher, Intergovernmental Panel on Climate Change (IPCC) Task Force on National Greenhouse Gas Inventories Technical Support Unit, Institute for Global Environmental Strategies, Hayama, Japan
- 2010 – 2018 Assistant Research Faculty, Southeast Environmental Research Center, Florida International University, Miami, FL
- 2010 - 2011 Consultant, Pennsylvania State University. “*Mangrove forest functioning in response to hurricane disturbances*”, Dr. Jose Fuentes, PI
- 2007 - 2010 Postdoctoral Associate, Department of Biological Sciences, Florida International University. “*Study of arctic ecosystem changes in the International Polar Year using the International Tundra Experiment*”, Dr. Steven Oberbauer, PI
- 2006 - 2010 Visiting Research Faculty, Southeast Environmental Research Center, Florida International University, Miami, FL
- 2005 - 2007 Postdoctoral Associate, Department of Biological Sciences, Florida International University. “*Determining hydrological requirements for aquatic slough vegetation*”, Dr. Jennifer Richards, PI
- 2006 - 2009 Research Scientist, Institute for Regional Conservation, Miami, FL

University Teaching and Mentoring Experience

- 2018 – present American Society of Adaptation Professionals Mentorship Program, Mentor
- 2016 – present Instructor, Department of Biological Sciences, Florida International University, Course taught (with CARTA faculty): Topics in Ecology: Sea Level Solutions Interdisciplinary Research and Design Studio (BSC 4932/6936)
- 2015 – present Instructor, Department of Biological Sciences, Florida International University, Course taught: Biological Science Intern (Internships; BSC 3941)
- 2015 - present Instructor, Department of Biological Sciences, Florida International University, Course taught: Student Research Laboratory (BSC 3915/4915)
- 2014 – present Instructor, Department of Biological Sciences, Florida International University, Course taught: Special Topics: Global Biology in the Anthropocene (PCB 4932)
- 2018 – present Ph.D. committee, Jazmin Locke, Earth and Environment Department
- 2018 – present Ph.D. committee, Tim Kirby, Earth and Environment Department
- 2018 – present Ph.D. Major Professor, Marbelys Garriga, Department of Biological Sciences
- 2013 – 2018 Ph.D. Co-Major Professor, Benjamin Wilson, Department of Biological Sciences
- 2013 – 2018 Ph.D. committee, Sean Charles, Department of Biological Sciences
- 2013 – 2018 Ph.D. committee, Jinze Lu, Department of Civil and Environmental Engineering
- 2017 – present M.S. Major Professor, Luke Lamb-Wooton, Department of Biological Sciences
- 2016 – present Ph.D. committee, Matt Smith, Department of Biological Sciences
- 2016 – present Ph.D. Major Professor, Daniel Virden, Department of Biological Sciences
- 2011 - 2012 NSF Research Experience for Undergraduates (REU) Mentor (University of Miami Department of Biology undergraduate Christopher Sanchez)
- 2011 Ph.D. candidate mentor, Lisa Chambers, Department of Soil and Water Science, University of Florida

- 2011 Instructor, Department of Biological Sciences, Florida International University, Course taught: Student Research Laboratory (BSC 3915/4915)
- 2010 - present Graduate Faculty, Department of Biological Sciences, Florida International University
- 2007 – 2009 NSF Florida Coastal Everglades LTER Schoolyard Program Intern Mentor (Felix Varela High School student Ben Giraldo)
- 2007 – 2008 Instructor, Department of Biological Sciences, Florida International University. Course Taught: NCEAS-funded Graduate Student Distributed Seminar –Ushering in a New Era of Functional Ecology: Dynamics in a Changing Environment - FIU lead (BSC 5935 U04 Biology Graduate Seminar: Special Topic)
- 2007 Adjunct Instructor, Department of Biological Sciences, Florida International University. Course Taught: General Ecology (PCB 3043)
- 2005 – 2008 NSF Research Experience for Undergraduates (REU) Mentor (EVR B.S. undergraduate Joshua Mahoney, EVR B.A. undergraduate Olga Sanchez)
- 2005 – 2008 Instructor, Environmental Studies Department, Florida International University. Course Taught: Independent Study (EVR 4905)
- 2004 – 2005 National Oceanic and Atmospheric Administration Environmental Science Research Internship Program Mentor (EVR B.S. undergraduate Joshua Mahoney)
- 2002 – 2004 Adjunct Instructor, Environmental Studies Department, Florida International University. Course Taught: Field Applications in Restoration Ecology (EVR 4934)
- 1998 – 2003 Teaching Assistant, Department of Biological Sciences, Florida International University. Courses taught: General Ecology Laboratory (PCB 3043L), General Biology I (BSC 1011L) & General Biology II (BSC 1012L) Laboratory Sections

Other Work Experience

- 1996 – 1997 Cape Florida Restoration Project, Cape Florida State Park, Restoration Practitioner and Volunteer Coordinator

TECHNICAL EXPERIENCE

- *Wet chemical methods for analyses of various forms of phosphorus and nitrogen in plant tissue, soil and water
- *Automated instrumentation of phosphorus, nitrogen and carbon analyses including Technicon auto-analyzer, Shimadzu spectrophotometer and HP gas chromatograph
- *Various soil biogeochemical techniques including pool dilution nitrogen enrichment experiments, N and P microbial biomass including persulfate digestion, acetylene reduction and enzyme activities with 4-methyumbelliferyl (MUF) substrates
- *In-situ field measurement of CO₂ with LICOR 8100 and nondispersive infrared sensors
- *Hydrogeological well installation and monitoring
- *Numerous techniques of plant and animal community measurements in terrestrial and wetland environments
- *Proficient with statistical and analytical software including JMP, R, MetaWin, Surfer, AqQA, Stella

*Exotic pest plant monitoring, eradication and other restoration management techniques

CERTIFICATIONS

Jun 2019 Certified Floodplain Manager (CFM), The Association of State Floodplain Managers
Dec 2013 United Nations Framework Convention on Climate Change – National Greenhouse Gas Inventory Review Expert – Land Use, Land-use Change and Forestry

RESEARCH & GRANTSMANSHIP

Contracts & Grants (~\$4M in last five years)

- Troxler, T. (PI).** Is the Coral Gables coastline keeping up with sea-level rise? City of Coral Gables. \$115,000. June 2017- June 2020.
- Obeyskera, J., M. Sukop, **T. Troxler**, M. Irizarry. Potential Implications of sea-level rise and changing rainfall in Florida Building Code for communities in Florida using Miami-Dade County as a Case Study. The State of Florida Department of Business and Professional Regulation, Florida Building Commission. \$127,883. October 2018 – June 2019.
- Troxler, T. (PI)**, Oberbauer S., Castaneda, E. Direct measurement of net ecosystem exchange (NEE) in coastal mangroves of Everglades National Park. National Park Service. \$170,000. July 2017 – September 2019.
- Troxler, T. (PI).** Ecological monitoring of southern Everglades wetlands, mangrove transition zone and “white zone” interactions with Florida Bay. South Florida Water Management District, Florida Bay Program. \$356,323. September 2016-August 2019.
- Troxler, T. (PI).** Ecological Assessment of Florida Bay and adjacent Mangrove Wetlands. South Florida/Caribbean Cooperative Ecosystem Studies Unit, National Park Service, Department of the Interior. \$600,000. August 2016-August 2020.
- Troxler, T. (PI).** Monitoring for potential water quality impacts along Eastern Everglades National Park. Department of the Interior, National Park Service. \$600,000. July 2016-June 2020.
- Troxler, T. (PI)**, Sklar, F. (co-PI), Gaiser, E. (co-PI), Davis, S. (co-PI), Kominoski, J. (co-PI), Coronado-Molina, C. (co-PI), Madden, C. (co-PI). The Effects of Projected Sea-Level Rise on Everglades Coastal Ecosystems: Evaluating the Potential for and Mechanisms of Peat Collapse Using Integrated Mesocosm and Field Manipulations. Seagrant, NOAA. \$400,000. February 2016-January 2021.
- Grimm, N. (PI), Redman, C. (co-PI), Gaiser, E. (FIU PI), Kominoski, J. (FIU co-PI), **Troxler, T.** (FIU co-PI), et al. Urban Resilience to Extremes Sustainability Research Network (UREx SRN). National Science Foundation. \$750,000, November 2015 – October 2020
- Troxler, T. (PI).** Surface-groundwater interactions in Everglades tree islands – toward restoration of degraded islands. South Florida Water Management District. \$350,000. December 2015-February 2020
- Gaiser, E. (PI) J. Kominoski, **T. Troxler**, K. Zhang, M. Heithaus. RAPID: Hurricane Irma: How do ecosystem perturbations interact to influence long-term resilience mechanisms? NSF. \$178,159. December 2017-November 2019.

- Grimm, N. (PI), Muñoz-Erikson, T. (co-PI), Feagan, M. (co-PI), **Troxler, T.** (co-PI). SCC-Planning: Building resilient coastal cities through smart and connected communities. NSF. \$99,867. November 2017-August 2019.
- Gaiser, E (Lead PI). FCE III: Coastal Oligotrophic Ecosystems renewal proposal. National Science Foundation. **Troxler, T.**, subcontract, \$420,000. January 2012-November 2019.
- Obeyskera, J., M. Sukop, **T. Troxler**, M. Irizarry. Potential Implications of sea-level rise and changing rainfall in Florida Building Code for communities in Florida using Miami-Dade County as a Case Study. The State of Florida Department of Business and Professional Regulation, Florida Building Commission. \$127,883. October 2018 – June 2019.
- Troxler, T. (PI)**, Wilson, B. DISSERTATION RESEARCH: How do saltwater intrusion and drought interact to change the soil stability of coastal peat marshes? National Science Foundation. \$19,045. June 2017-September 2018.
- Troxler, T. (PI)**. Support for EPA Greenhouse Gas Inventory on Coastal Wetland Land-use in the US. Restore America Estuaries. \$8000. July 2016-April 2017.
- Troxler, T. (PI)**. Support for EPA Greenhouse Gas Inventory on Coastal Wetland Land-use in the US. Restore America Estuaries. \$8000. July 2015-June 2016.
- Windham-Myers, L. (PI), Bergamaschi, B. (co-PI), Drexler, J. (co-PI), Byrd, K. (co-PI), Ferner, M. (co-PI), Magonigal, P. (co-PI), Schile, L. (co-PI), Kroeger, K. (co-PI), Crooks, S. (co-PI), Morris, J. (co-PI), Sutton-Grier, A. (co-PI), Callaway, J. (co-PI), Simard, M. (co-PI), Woo, I. (co-PI), Takekawa, J. (co-PI), **Troxler, T. (co-PI)**. Linking Satellite and Soil Data to Validate Coastal Wetland "Blue Carbon" Inventories: Up-scaled Support for Developing MRV and REDD+ Protocols. NASA ROSES-14 A.7: Carbon Monitoring Systems. \$60,000, October 2015-October 2017.
- Troxler, T. (PI)**. Monitoring for potential water quality impacts along Eastern Everglades National Park. Department of the Interior, National Park Service. \$260,000. July 2014-June 2016.
- Troxler, T. (PI)**. Ecological monitoring of southern Everglades wetlands, mangrove transition zone and "white zone" interactions with Florida Bay. South Florida Water Management District, Florida Bay Program. \$356,323. March 2014-September 2016.
- Troxler, T. (PI)**, Sklar, F. (co-PI), Gaiser, E. (co-PI), Davis, S. (co-PI), Kominoski, J. (co-PI), Coronado-Molina, C. (co-PI), Madden, C. (co-PI). The Effects of Projected Sea-Level Rise on Everglades Coastal Ecosystems: Evaluating the Potential for and Mechanisms of Peat Collapse Using Integrated Mesocosm and Field Manipulations. Seagrant, NOAA. \$200,000. January 2014-February 2016.
- Troxler, T. (PI)**. Ecological Assessment of Florida Bay and adjacent Mangrove Wetlands. South Florida/Caribbean Cooperative Ecosystem Studies Unit, National Park Service, Department of the Interior. \$445,000 August 2013-August 2016.
- Troxler, T. (PI)**. Monitoring for potential water quality impacts along Eastern Everglades National Park. Department of the Interior, National Park Service. \$115,000. July 2013-June 2014.
- Troxler, T. (PI)**. Ecological monitoring of southern Everglades wetlands, mangrove transition zone and "white zone" interactions with Florida Bay. South Florida Water Management District, Florida Bay Program. \$48,680. October 2013-January 2014.
- Troxler, T. (PI)**. Surface-groundwater interactions in Everglades tree islands – toward restoration of degraded islands. South Florida Water Management District. \$266,000. February 2013-January 2016

- Troxler, T. (PI)**, Gaiser, E. (co-PI). Ecological monitoring of southern Everglades wetlands, mangrove transition zone and “white zone” interactions with Florida Bay. South Florida Water Management District, Florida Bay Program. \$135,000. October 2012-September 2013.
- Troxler, T. (PI)**, Richards, J. (co-PI). Monitoring for potential water quality impacts along Eastern Everglades National Park. Department of the Interior, National Park Service. \$115,000. June 2012-June 2013.
- Troxler, T. (PI)**, Richards, J. (co-PI). Surface-groundwater interactions in Everglades tree islands. South Florida Water Management District. \$89,350. January 2012-December 2012.
- McDowell, W. (PI), **Troxler, T. (co-PI)**, Vanderbilt, K. (co-PI), Redman, C. (co-PI). US-Mexico Workshop: Catalyzing international collaborations to develop a platform for ecohydrological research - Chamela, Jalisco, Mexico, September 2012. National Science Foundation. \$48,017. September 2011-December 2012.
- Troxler, T. (PI)**. Hydrogeochemical patterns at temporal and spatial scales of a “pristine” island and a degraded tree island located in WCA-3A: Restoring ecological function of degraded tree islands. South Florida Water Management District, Everglades Division. \$39,600. March 2011-November 2011.
- Troxler, T. (PI)**, Richards, J. (co-PI). Carbon dioxide efflux from mangrove soil and woody debris. Department of Interior, National Park Service. \$14,000. September 2010-June 2012.
- Troxler, T. (PI)**, Richards, J. (co-PI), Engel, V. (co-PI). Surface-groundwater interactions in Everglades tree islands, U.S. Army Engineer Research and Development Center. \$166,000. September 2010-December 2011.
- Troxler, T. (PI)**, Richards, J. (co-PI). Monitoring for potential water quality impacts along Eastern Everglades National Park. Department of the Interior, National Park Service. \$120,000. June 2011-June 2012.
- Troxler, T. (PI)**, Gaiser, E. (co-PI). Ecological monitoring of southern Everglades wetlands, mangrove transition zone and “white zone” interactions with Florida Bay. South Florida Water Management District, Florida Bay Program. \$340,000. September 2010-September 2012.
- Troxler, T. (PI)**, Richards, J. (co-PI). Spatial pattern in nutrient fluxes on two tree islands in WCA-3A: toward restoration of degraded tree islands. South Florida Water Management District, Everglades Division. \$89,950. March 2010-December 2010.
- Troxler, T. (PI)**, Richards, J. (co-PI). Monitoring data of the southern Everglades ecosystem for adaptive management of operations and restoration. South Florida Water Management District, Florida Bay Program. \$34,975. January 2010-July 2010.
- Troxler, T. (PI)**, Richards, J. (co-PI). Monitoring for potential water quality impacts along Eastern Everglades National Park. Department of the Interior, National Park Service. \$120,000. June 2010-June 2011.
- Troxler, T. (PI)**, Richards, J. (co-PI). Data synthesis & refinement of tree island nutrient budgets. South Florida Water Management District, Everglades Division. \$49,975. February 2009-December 2009.
- Troxler, T. (PI)**, Richards J. (co-PI). Paleoecological and physiological impacts of reduced water flow on estuarine research guidelines for ecosystem restoration, Everglades National Park, Critical Ecosystems Studies Initiative Program, \$65,000. October 2008-September 2010.
- Troxler, T. (PI)**, Childers, D. (co-PI). C-111 monitoring plan for southern wetlands, transition zone and flows into Florida Bay. South Florida Water Management District, Florida Bay Program. \$102,500. September 2008-November 2009.

- Troxler, T. (PI).** Monitoring for potential water quality impacts along Eastern Everglades National Park, National Park Service (2008 - change to PI from previous award to D. Childers).
- Troxler, T. (PI), Childers, D. (co-PI).** Spatial and temporal variability in water quality of tree island 3AS3. South Florida Water Management District, Hydrogeology Division. \$40,000. June 2007-May 2009.
- Childers, D. (PI), **Troxler, T. (co-PI).** Monitoring for potential water quality impacts along Eastern Everglades National Park, National Park Service, \$330,000. June 2007-May 2010.
- Childers, D. (PI), **Troxler, T. (co-PI).** Monitoring of the southern Everglades ecosystems for adaptive management of environmental restoration activities. South Florida Water Management District, Florida Bay Program. \$48,900. January 2008-July 2008.
- Troxler, T. (PI), Childers, D. (co-PI).** Pilot study for calculating nutrient and hydrologic fluxes in a tree island. South Florida Water Management District, Everglades Division. \$150,000. October 2006-September 2008.

Fellowships, Supplemental and Foundation Research Grants

- Troxler, T., Gaiser, E.** Florida Coastal Everglades Long Term Ecological Research (FCE LTER) Supplemental Grant. National Science Foundation. \$4000. July 2011.
- Troxler, T., Gaiser, E.** FCE LTER Supplemental Grant. National Science Foundation. \$7840. July 2010.
- Troxler, T., Childers, D., Gaiser, E.** FCE LTER Supplemental Grant. National Science Foundation. \$5054. July 2007.
- Troxler, T., Childers, D., Gaiser, E.** FCE LTER Supplemental Grant. National Science Foundation. \$12900. July 2006.
- Troxler, T.** Short-term Post-Doctoral Research Fellowship. Smithsonian Tropical Research Institute. \$2000. January 2006.
- Troxler, T.** Dissertation Year Fellowship. University Graduate School, Florida International University. \$18000. August 2004.
- Childers, D., **Troxler, T.** FCE LTER Supplemental Grant. LTER Graduate Student Collaborative Research Symposium. National Science Foundation. \$45,000. February 2004.
- Troxler, T.** Graduate Research Grant, FIU Graduate Student Association, \$1000. December 2003.
- Troxler, T.** Tinker Field Research Grant, FIU Latin American and Caribbean Center and Center for Transnational and Comparative Studies \$1500. August 2003.

PUBLICATIONS

Peer-Reviewed (A total of 56)

- Charles, S.P., J.S. Kominoski, **T.G. Troxler**, E.E. Gaiser, S. Servais, B.J Wilson, S.E. Davis, F.H. Sklar, C. Coronado-Molina, C. J. Madden, S. Kelly, D. T. Rudnick. 2019. Experimental Saltwater Intrusion Drives Rapid Soil Elevation and Carbon Loss in Freshwater and Brackish Everglades Marshes. *Estuaries and Coasts*. <https://doi.org/10.1007/s12237-019-00620-3>.
- Wilson, B.J., Servais, S., Charles, S. P., Mazzei, V., Kominoski, J.S., Gaiser, E., Richards, J., and **Troxler, T.** 2019. Phosphorus alleviation of salinity stress: effects of saltwater intrusion on an Everglades freshwater peat marsh. *Ecology*. <https://doi.org/10.1002/ecy.2672>

Servais, S., J.S. Kominoski, S.P. Charles, E.E. Gaiser, V. Mazzei, **T.G. Troxler**, B.J. Wilson. 2019. Saltwater intrusion and soil carbon loss: Testing effects of salinity and phosphorus loading on microbial functions in experimental freshwater wetlands. *Geoderma* 337: 1291-1300.

Troxler, TG, G Starr, JN Boyer, JD Fuentes, and R Jaffe et al. 2019. Carbon Cycles in the Florida Coastal Everglades Social-Ecological System Across Scales (Chapter 6). *In* The Coastal Everglades: The Dynamics of Social-Ecological Transformations in the South Florida Landscape. Childers, D, Gaiser, E, Ogden, L (Eds). Oxford University Press.

Prevéy, J S., C Rixen, N Rüger, T T. Høye, A D. Bjorkman, I Myers-Smith, SC. Elmendorf, IW. Ashton, N Cannone, C Chisholm, EJ. Cooper, B Elberling, A M Fosaa, G Henry, B Hollister, I S Jónsdóttir, K Klanderud, C W. Kopp, E Levesque, M Mauritz, U Molau, S Natali, S Oberbauer, Z Panchen, E Post, S B. Rumpf, N M Schmidt, T Schuur, P Semenchuk, JG. Smith, K N. Suding, Ø Totland, **T Troxler**, S Venn, C-H Wahren, J Welker, S Wipf. 2019. Warming shortens flowering seasons of Arctic and alpine plants. *Nature: Ecology and Evolution* 3:45-52.

Crooks, S., **Troxler, T.**, Windham-Myers, L. 2019. Defining Blue Carbon: the emergence of a climate context for coastal carbon dynamics. In *A Blue Carbon Primer: The State of Coastal Wetlands Carbon Science, Practice and Policy*. L Windham-Myers, S Crooks, **TG Troxler** (Eds). CRC Press, Boca Raton, FL. 480p.

Troxler, T., Kennedy, H., Crooks, S., Sutton-Grier, A. 2019. Introduction of Coastal Wetlands into the IPCC Greenhouse Gas Inventory Methodological Guidance. In *A Blue Carbon Primer: The State of Coastal Wetlands Carbon Science, Practice and Policy*. L Windham-Myers, S Crooks, **TG Troxler** (Eds). CRC Press, Boca Raton, FL. 480p.

Vegh, T., Pendleton, B., Murray, L., **Troxler, T.**, Zhang, K., Guannel, G., Castañeda-Moya, E., Sutton-Grier, A. 2019. Ecosystem Services and Economic Valuation: co-benefits of coastal wetlands. In *A Blue Carbon Primer: The State of Coastal Wetlands Carbon Science, Practice and Policy*. L Windham-Myers, S Crooks, **TG Troxler** (Eds). CRC Press, Boca Raton, FL. 480p.

National Academies of Sciences, Engineering, and Medicine 2018. *Negative Emissions Technologies and Reliable Sequestration: A Research Agenda*. Washington, DC: The National Academies Press. <https://doi.org/10.17226/25259>.

Crooks, S., A. Sutton-Grier, **T. Troxler**, B. Bernal, N. Herold, T. Wirth. 2018. Coastal wetland management as a contribution to the US National Greenhouse Gas Inventory. *Nature-Climate Change* 8-1109-1112.

Breithaupt, J., Smoak, J., Sanders, C., **Troxler, T.** 2018. Spatial variability of organic carbon, CaCO₃ and nutrient burial rates spanning a mangrove productivity gradient in the coastal Everglades. *Ecosystems*. DOI: 10.1007/s10021-018-0306-5.

Holmquist, J., L. Windham-Myers, B. Bernal, K. B. Byrd, S. Crooks, M. E. Gonnee, N. Herold, S. H. Knox, K. Kroeger, J. McCombs, J. P. Megonigal, L. Meng, J. T. Morris, A. E. Sutton-Grier, **T. G. Troxler** and D. Weller. 2018. Uncertainty in United States coastal wetland greenhouse gas inventorying. *Environmental Research Letters* 13:115005.

Wilson BJ, S Servais, V. Mazzei, S Davis, E Gaiser, J.S. Kominoski, J Richards, F. Sklar, **T Troxler**. 2018. Changes in ecosystem carbon cycling with increased salinity exposure in the coastal Florida Everglades. *Ecological Applications*. <https://doi.org/10.1002/eap.1798>.

Sklar, F, J Meeder, **T Troxler**, T Dreschel, P Ruiz and S Davis. 2018. Chapter 13: The Everglades: At the Forefront of Transition. Editors: Eric Wolinski, John Day, Mike Elliot, Ramesh Ramachandran. *Coasts and Estuaries- The Future*.

Mazzei, V., E.E. Gaiser, J.S. Kominoski, **T. Troxler**, BJ Wilson, S Servais, L Bauman, S Davis, S Kelly, F Sklar, D Rudnick, J Stachelek. 2018. Functional and compositional responses of periphyton mats to simulated saltwater intrusion in the southern Everglades. *Estuaries and Coasts* 41:2105-2119.

Wilson, B. J., S. Servais, S. P. Charles, S.E. Davis, E. Gaiser, J. S. Kominoski, J. Richards, and **T. G. Troxler**. 2018. Declines in Plant Productivity Drive Carbon Loss from Brackish Coastal Wetland Mesocosms Exposed to Saltwater Intrusion. *Estuaries and Coasts*. 41:2147-2158.

Dessu, SB, RM Price, **TG Troxler**, JS Kominoski. 2018. Effects of sea-level rise and freshwater management on long-term water levels and water quality in the Florida Coastal Everglades. *Journal of Environmental Management* 211: 164-176.

Holmquist, JR, Windham-Myers, L, Bliss, N, Crooks, S, Morris, JT, Megonigal, JP, **Troxler, T**, Weller, D. et al. 2018. Accuracy and Precision of Tidal Wetlands Soil Carbon Mapping in the Conterminous United States. *Scientific Reports*. DOI:10.1038/s41598-018-26948-7.

Davis, SE, R Boucek, E Castañeda-Moya, S Dessu, E Gaiser, J Kominoski, JP Sah, D Surratt, **T Troxler**. 2018. Episodic disturbances drive nutrient dynamics along freshwater-to-estuary gradients in a subtropical wetland. *Ecosphere* 9: e02296.

Stachelek, J., Kelly, S.P, Sklar, F., Coronado, C.M., **Troxler, T.**, and L. Bauman. 2018. In-situ simulation of sea-level rise impacts on coastal wetlands using a flow-through mesocosm approach. *Methods in Ecology and Evolution*. [10.1111/2041-210X.13028](https://doi.org/10.1111/2041-210X.13028).

Prevey, J., M. Vellend, N. Ruger, R.D. Hollister, Elmendorf, S.C., A.J. Bjorkman, I.H. Myers-Smith, T.V. Callaghan, E.J. Cooper, J.H.C. Cornelissen, T.A. Day, A.M. Fosaa, W.H Gould., J. Grétarsdóttir, J. Harte, L. Hermanutz, G.H.R. Henry, D.A. Hik, A. Hofgaard, F. Jarrad, I.S. Jónsdóttir, F. Keuper, K. Klanderud, J.A. Klein, S. Koh, G. Kudo, S. Lang, V. Lowen, J.L. May, J. Mercado, A. Michelsen, U. Molau, S. Pieper, C.H. Robinson, L. Siegart, S.F. Oberbauer, E. Post, N.M. Schmidt, G.R. Shaver, A. Tolvanen, O. Totland, **T. Troxler**, C.H. Wahren, P.J. Webber, J.M. Welker, P. Wookey. C. Rixen. 2017. Greater temperature sensitivity of plant phenology at colder sites: implications for convergence across northern latitudes. *Global Change Biology* 23: 2660-2671.

Morris, J. Barber, DC, JC Callaway, R Chambers, SC Hagen, CS Hopkinson, BJ Johnson, P Megonigal, SC Neubauer, **T Troxler**, C Wigand. 2016. Contributions of organic and inorganic matter to sediment volume and accretion in tidal wetlands at steady state. *Earth's Future* 4: 110-121.

Troxler, T.G. 2016. Collaboration and broadening our scope: relevance of long-term ecological research to the global community. In Long-term ecological research: changing the nature of scientists. Willig, M. and L.R. Walker (Eds.). Oxford University Press, New York, NY, USA. p185-196.

Chambers, L.G., R. Guevara, J. Boyer, **T. Troxler**, S.E. Davis. 2016. Effects of salinity and inundation on microbial community structure and function in a mangrove peat soil. *Wetlands* 36: 361-371.

Troxler, T., Barr, J., Fuentes, J., Engel, V., Anderson, G., Sanchez, C., Lagomasino, D., Price, R., Davis, S. 2015. Component-specific dynamics of riverine mangrove CO₂ efflux in the Florida Coastal Everglades. Special Issue: Mangrove carbon cycling. *Agricultural and Forest Meteorology* 213:273-282.

Gaiser, E.E., Anderson, E.P., Castaneda-Moya, E., Collado-Vides, L., Fourqurean, J.W, Heithaus, M.R., Jaffe, R., Lagomasino, D., Oehm, N. J., Price, R. M., Rivera-Monroy, V.H., Chowdhury, R. R., **Troxler, T.G.** 2015. New perspectives on an iconic landscape from comparative international long-term ecological research. *Ecosphere* 6:

Serna, A., J. H. Richards, **T. G. Troxler**, L. J. Scinto. 2015. Vegetation and soil response to hydrology in a re-created Everglades. *Hydrobiologia* 757: 167-183.

Chambers, L.G., S.E. Davis, **T.G. Troxler**. 2015. Sea Level Rise in the Everglades: Plant-Soil-Microbial Feedbacks in Response to Changing Physical Conditions. In Entry, J., K. Jayachandran, A.D. Gottlieb, A. Ogram (eds.)

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SYNERGISTIC ACTIVITIES AND PROFESSIONAL AFFILIATIONS

Synergistic Activities and Invited Workshops/Symposia

Jan 2020	Everglades Coalition Annual Meeting, Captiva, FL - Invited Speaker/Panelist
Nov 2019	Coastal and Estuarine Research Federation, Providence, RI – Coastal Sustainability Design Session (with FIU students presenting: Multidisciplinary Assessment of Urban Design through a Resiliency Framework: Miami Beach Case Study)
Oct 2019	City of Miami Beach Environment and Sustainability and Urban Forestry Department-FIU SLSC community event - Urban Forestry and Citizen Science
Oct 2019	City of Miami Virginia Key Advisory Board - Sea-level rise on Virginia Key: Anticipated impacts and resiliency efforts
Sep 2019	Biscayne Nature Center - Unveiling Climate Change at Ground Zero – Invited Speaker/Panelist

Jul 2019 - present	Southeast Coastal Ocean Observing Regional Association (SECOORA) Science Committee member
Jul 2019 – present	Southeast Regional Climate Change Compact Sea Level Rise Projection Work Group member
Jul 2019	MetroLab University-Government Partnership meeting on Greater Miami and the Beaches Resilience – organizer
Jul 2019	Association of the Society of Landscape Architects Florida Conference “Unveiling Climate Change at Ground Zero” – Invited Speaker/Panelist
Jul 2019	Breakthrough Miami – Led by FIU Miami Beach Urban Studios with funding from The Children’s Trust – Invited speaker
Jun 2019 - present	Miami-Dade County Biscayne Bay Task Force member
Jun 2019	FIU-Catalyst Miami Citizen Science Heat Reporting “Kick-off”
May 2019	15 th Annual Workshop on LC/MS/MS Applications in Environmental Analysis and Food Safety, Miami, FL “Science-based design and adaptation to benefit society in the face of a changing climate” – Invited Speaker
May 2019	Greater Miami Chamber of Commerce Resilient Solutions Summit, Miami, FL – Invited Panelist
Apr 2019	Miami Design Preservation League “Sea Level Rise and Historical Preservation Symposium”, Miami Beach, FL – Invited Speaker
Apr 2019	CLEO-FIU Enabling Climate Communications – Invited Panel Moderator
Apr 2019	St. Thomas University/The Nature Conservancy “Climate, Nature and Society International Conference” – Invited Speaker
Apr 2019	Hinshaw and Culbertson Third Annual Climate Change Conference, Miami, FL– “National Flood Insurance Program Community Rating System: flood risk reduction and natural system benefits” – Invited Speaker
Apr 2019	Miami Scenarios Workshop – UREx SRN-FIU community engagement event
Apr 2019	Miami World Café – Venture Café community engagement event
Mar 2019	Pinecrest Underwater HOA – Invited Speaker
Mar 2019	State Attorney’s Office Grand Jury testimony on Biscayne Bay – Invited Speaker
Mar 2019	FIU Emeritus Circle – Invited Speaker
Mar 2019	American Association of Adaptation Professionals Mentor Program– “Science-based design and adaptation to benefit society in the face of a changing climate” – Invited Webinar Speaker
Feb 2019 - present	Miami Beach Chamber of Commerce Resilience and Sustainability Task Force member
Feb 2019	City of Miami Sea Level Rise Committee, Natural Systems, Parks and Open Spaces Sub-committee, Invited Participant
Feb 2019	Miami Democratic Caucus – Invited Speaker
Feb 2019 - present	Miami-Dade County Local Mitigation Strategy Steering Committee member
Jan 2019	Green Stormwater Infrastructure Workshop – Invited Speaker - “Green infrastructure Research and Monitoring: Examples from cities in the Urban

	Resilience to Extremes (UREx) Sustainability Research Network” – UREx Annual All Hands Meeting, Baltimore, MD
Dec 2018	The National Academies of Sciences, Engineering and Medicine – Invited Webinar – “Report Briefing Webinar: Coastal Blue Carbon as a Negative Emissions Technology”
Nov 2018	Extreme Landscape Architecture, Miami Beach, FL – Invited Speaker – “Science-based design and adaptation to benefit society in the face of a changing climate”
Sep - Oct 2018	King Tide Flooding Citizen Science Program events, Miami, FL – co-organizer
Sep 2018 – present	West Kendall Baptist Hospital Green Advisory Committee
Aug 2018	MetroLab University-Government Partnership meeting on Greater Miami and the Beaches Resilience - organizer
May 2018	Florida Native Plant Society Annual Conference, Miami, FL – Invited Plenary Speaker – “Local and regional opportunities for natural systems to benefit society”
May 2018	NOAA/FDEP/FIU Green Infrastructure Workshop, Naples, FL – Co-organizer
Apr 2018	Hinshaw and Culbertson Second Annual Climate Change Conference, Miami, FL – Invited Speaker – “Today’s Perspective: Thinking Beyond Risk”
Mar 2018	Urban Resilience to Extremes Sustainability Research Network Annual All Hands Meeting, Phoenix, AZ – Invited Speaker – “Are we doing enough to build resilience to extreme events in Miami?”
Feb 2018	Master Naturalist Training Program – Invited Speaker – “Wetlands, wetland research and opportunities for wetlands to benefit society”
Feb – Jun 2018	Greater Miami and the Beaches 100 Resilient Cities Living with Water working group
Jan 2018	Environmental Defense Fund Science Day - Hype or Hope: The Potential of Carbon Dioxide Removal – Invited Speaker – “Blue Carbon”
Oct 2017 – present	Resilient Utility Coalition, Board Member
Oct 2017	National Academy of Sciences, Engineering and Medicine, Committee on the Independent Scientific Review of Everglades Restoration Program – Invited Speaker – “Implications of Climate Change and Sea-Level Rise for Southern Coastal Ecosystems”
Sep - Oct 2017	King Tide Flooding Citizen Science Program events, Miami, FL – co-organizer
Aug 2017	Everglades Foundation Sea Level Rise Workshop – Invited Expert
Aug 2017 - present	Biscayne Bay Marine Health Summit – Research Needs working group co-lead
Aug 2017	Miami-Dade Department of Environmental Resource Management Professional Development Seminar Series – “Innovating solutions for building resilience to sea-level rise: Reducing risks & creating opportunities”
Jul 2017	Miami Caribbean Code symposium, Miami, FL – Invited Speaker – “Innovating solutions for building resilience to sea-level rise: reducing risks and creating opportunities”

Jun 2017	Biscayne Bay Marine Health Summit, Miami, FL – Invited panelist
Jun 2017	Sea Level Rise and the Public Realm, Miami Beach, FL – event co-organizer
Jun 2017	Universities and Coastal Resilience: A strategic discussion, Norfolk, VA – Invited Speaker – “Overview of FIU’s Coastal Resilience Strategy”
May 2017	Pompano Beach Rotary Club, Pompano Beach, FL – Invited Speaker - “Innovating solutions for building resilience to sea-level rise: reducing risks and creating opportunities”
Apr 2017-Oct 2018	National Academy of Sciences, Engineering and Medicine, Developing a Research Agenda on Carbon Dioxide Removal and Reliable Sequestration, Committee member & sub-Committee lead
Mar 2017	North American Carbon Program/Ameriflux Annual Meeting, Washington, D.C. – Breakout Session Co-organizer - Coastal blue carbon: an essential component of the global carbon cycle
Mar 2017	Philanthropy Miami, Miami, FL – Invited panelist - “Innovating solutions for building resilience to sea-level rise: reducing risks and creating opportunities”
Mar 2017	Society of Wetland Scientists Webinar Series – Invited Speaker – “The challenges and successes of incorporating coastal wetlands into the U.S. Inventory of GHG Emissions and Sinks”
Jan 2017 – present	Climate Literacy and Education Opportunities (CLEO) Expert Advisory Council
Sep - Oct 2016	King Tide Flooding Citizen Science Program events, Miami, FL – co-organizer
Oct 2016	North American Blue Carbon Experts and Partners Meeting: Science for Policy, Falmouth, MS – Invited Expert
Sep 2016	Workshop on Assessing the effects of a large hurricane striking Miami Infrastructure and developing resilient and sustainable engineering solutions, Miami, FL – Invited Speaker – “Sea Level Solutions”
Sep 2016	Solutions for Coastal Cities: Resilience and Adaptations in Tampa Bay, St. Petersburg, FL – Invited Panelist
Sep 2016	Coastal Wetland Change Workshop, Miami, FL – Co-organizer
Aug 2016	Ecological Society of America, Symposium Co-organizer, Coastal Wetlands in the Anthropocene: Novel Ecosystem Challenges for Carbon Cycling Measurements and Modeling
Aug 2016	Sea Level Solutions Center Community Opening, Miami Beach, FL – Co-organizer
Jun 2016	Miami Foundation Sea Level Rise Communications workshop – Invited Speaker – “Sea Level Solutions”
Jun 2016	Miami-Dade Local Mitigation Strategy Quarterly Meeting – Invited Speaker – “Exponentializing educational efforts (e ³) for community resilience”
May 2016	South Florida Water Management District Workshop on Coastal Flood Indicators – Invited Speaker – “Local Coastal Flood Indicators”
May 2016	FIU Ocean Life Seminar Series, Key Largo, FL – Invited Speaker – “Sea Level Solutions”
Apr 2016	Tropical Audubon Society Annual “Wing Ding” – Invited Speaker

Apr 2016 Science, Technology, Education, Arts and Math (STEAM) Teacher Training – Invited Speaker – “Sea Level Solutions”

Apr 2016 Greater Miami Chamber of Commerce Sea Level Rise Solutions Conference, Miami, FL – Invited Panelist

Apr 2016 Media Party, Miami, FL – Invited Speaker – “Advancing understanding of sea-level rise science, impacts and solutions – how can we do it better?”

Apr 2016 Miami Beach Chamber of Commerce Event, Miami Beach, FL - The economic impact of sea level rise on south Florida – Invited Panelist

Apr 2016 TigerTail Productions, Water Panel – Invited Speaker – “Changing watery ecosystems and their implications”

Apr 2016 FIU hosting the Seattle Chamber of Commerce – Invited Speaker – “Sea Level Solutions”

Feb 2016 – Feb 2017 US Department of Energy, Office of Science, Research Priorities to Incorporate Terrestrial-Aquatic Interfaces in Earth System Models, Workshop Co-Chair

Feb 2016 American Institute of Architects Sea Level Rise Discussion, Miami, FL – Co-organizer

Feb 2016 FIU Faculty Senate, Miami, FL – Invited Speaker – “Advancing understanding of regional sea-level rise impacts and resiliency in south Florida”

Feb 2016 FIU Sea Level Solutions Center All Hands Meeting, Miami, FL – Co-organizer

Feb 2016 Townhall Discussion about Flooding – Invited Speaker – “Sea-level rise and south Florida impacts”

Feb 2016 Miami River Commission, Miami, FL – Invited Speaker – “Advancing understanding of regional sea-level rise impacts and resiliency in south Florida”

Jan – Apr 2016 A Sea Level Rise Discussion Series – Monthly seminar series co-organized with the City of Coral Gables

Jan 2016 Our Fund Community Event, Ft. Lauderdale, FL - Invited Speaker – “Sea Level Solutions”

Jan 2016 Global Science and Data Network for Coastal Blue Carbon, Menlo Park, CA – Invited expert

Dec 2015 Miami River Commission Urban Infill Committee – Invited Expert

Dec 2015 Greater Miami Chamber of Commerce Resilience Committee Meeting, Miami, FL – Invited Speaker – “The Paris Climate Talks or what we need to know to foretell the future for south Florida”

Nov 2015 FIU GIS Day – Invited Speaker – “Sea-level rise and science to understand regional impacts in south Florida”

Nov 2015 CLIMA panel discussions on climate change, Hialeah, FL – Invited Speaker – “The Paris Talks, Sea Level Rise & Sea Level Solutions”

Nov 2015 Citizens Engaging in Sea Level Solutions with Eyes on the Rise – Co-organizer

Sep 2015	Climate Reality, Miami, FL – Invited Speaker – “Sea-level rise, extreme events & resiliency in south Florida: science, impacts and solutions”
July 2015-present	Florida Climate Institute, Executive Board member
Jun 2015	FEMA National Exercise Program Miami Climate Adaptation, Preparedness and Resilience Seminar, Miami, FL – Co-organizer
June 2015-present	Southeast Florida Regional Climate Compact, Shoreline Resilience Working Group, member; Monitoring and Metrics Sub-committee, member
Apr 2015	Commission on Environmental Cooperation – North American Blue Carbon Experts Partners Workshop, Cancun, MX – Invited Expert
Mar 2015-present	Subject editor, Wetlands Ecology and Management
Jan 2015-present	International LTER Network, Executive Board and Public Policy committee co-chair
Dec 2014	International Long Term Ecological Research Network All-Scientists Meeting of the Americas, Valdivia, Chile, An international, socio-ecological framework to provide hydrological co-benefits with a changing climate, Workshop Co-chair
Oct 2014	IPCC Expert Meeting: Improving National Greenhouse Gas Inventories Using the 2006 IPCC Guidelines and Related Tools, Hayama, Japan – Instructor
Oct 2014	Southeast Asia Network of Climate Change Offices and United Nations Environment Programme - Hands-on Training Workshop on Greenhouse Gas Inventories for Experts, Singapore, Singapore – Instructor
Oct 2014-present	US LTER Network International Committee – Committee Co-chair
Oct 2014-Oct 2016	Miami Beach Sea Level Rise Initiative – Ecosystem Services and Monitoring working group lead
Aug 2014-present	Tropical Audubon Society – Board member
Jul 2014	Rising Seas Summit, NY, New York, USA – School of Environment, Arts & Society representative
Apr 2014	Commission on Environmental Cooperation – North American Blue Carbon Experts Partners Workshop, Menlo Park, CA, USA – Invited Expert
Jan 2014 – Jan 2017	Chinese Ecological Research Network-National Ecological Observatory Network steering committee
Dec 2013	IPCC Expert Meeting: Improving National Greenhouse Gas Inventories Using the 2006 IPCC Guidelines and Related Tools, Sapporo, Japan – Meeting Co-organizer and Instructor
Nov 2013	IPCC Expert Meeting: 8 th Data Meeting of the Emission Factor Database: Biomass and Soil Burning, Ghent, Belgium – Meeting Chair
Nov 2013	19 th Session of the Convention of the Parties and the 38 th Session of the Subsidiary Body for Science and Technological Advice, IPCC Special Event on Two New Methodological Reports (Wetlands Supplement and KP Supplement), Warsaw, Poland – Event Co-organizer and Presenter
Oct 2013	Annual Meeting of the International Long-Term Ecological Research Network, Seoul, Republic of South Korea - US LTER Network Delegate

Aug 2013 IPCC Expert Meeting: Fugitive Emissions of Greenhouse Gases from Oil and Natural Gas Systems (including shale gas, coal bed methane, etc) – Meeting Co-organizer

July 2013 Hands-on Training Workshop on Greenhouse Gas Inventory for Experts from Bhutan, Nepal and India, New Delhi, India – Instructor

May 2013 Latin American Workshop on National Greenhouse Gas Inventories Systems, Santiago, Chile – Instructor

Feb 2013 Japan International Cooperation Agency (JICA) Group Training Course: Development of Strategies on Climate Change, Tokyo, Japan – Instructor

Dec 2012 IPCC Expert Meeting on the 2006 IPCC Guidelines and Software, Bali, Indonesia – Meeting Co-organizer and Instructor

Oct 2012 IPCC Expert Meeting: Role of Remote Sensing in Forest and National Greenhouse Gas Inventories, Hayama, Japan – Meeting Co-organizer

Oct 2012 US-Mexico Ecohydrology workshop, Chamela, Mexico – Workshop Organizing Committee

Sep 2012 US LTER All-Scientists Meeting, Estes Park, CO – “Populating the IPCC Emission Factor Database”, Session Co-organizer

Jul 2012 – present FCE LTER Primary Production working group co-lead

Jul 2012 - present FCE LTER Internal Executive Committee

Jun 2012 The 9th INTECOL International Wetlands Conference, Orlando FL – “Patterns and drivers of carbon storage in peatlands”, Session Co-organizer

Mar 2012 – Aug 2013 The 11th INTECOL Congress, Ecology 2013 – “International perspectives from long term research on ecosystem carbon budgets”, Session Co-organizer

Feb 2012 Japan International Cooperation Agency (JICA) Group Training Course: Development of Strategies on Climate Change, Tokyo, Japan – Instructor

Sep 2010 - present US LTER Network International Committee

Oct 2009 NCEAS Working Group – co-Lead - “Long-term phenological changes in tundra plants in response to experimental warming and observed changes in climate”

Sep 2009 US LTER Network All Scientists Meeting, Estes Park, CO – “Biogeochemical Complexity among LTER sites”, Working Group Leader

Sep 2006 US LTER Network All Scientists Meeting, Estes Park, CO – “Biogeochemical Complexity among LTER sites – the what, where and how”, Working Group Leader

Nov 2005 US LTER Group of 100 Planning Meeting, Cape Canaveral, FL

Apr 2005 US LTER Graduate Student Collaborative Research Symposium, Co-Chair

2005 – present Referee for the following funding programs: NSF (DEB), NICCR, Georgia Sea Grant, Rhode Island Agricultural Experiment Station

2004 – present Referee for the following journals and proposal review panels: *Wetlands*, *Hydrobiologia*, *Wetland Ecology and Management*, *Ecohydrology*, *Aquatic Botany*, *Bioscience*, *Plant Ecology*, *Biotropica*, *Journal of Ecology*, *Geoderma*, *Botanica Marina*, *Biogeochemistry*, *JGR-Biogeosciences*, *Soil Science*, *Frontiers in Ecology and Environment*; *National Science Foundation*, *National Center for Ecological Analysis and Synthesis*

Professional Awards and Distinctions

May 2019 - present	Florida Thrives: Community of Practice, Hosted by Catalyst Miami, Funded by JP Morgan Chase
April 2019	Accepted honor on behalf of Sea Level Solutions Center for contributions to the mission of the Miami River Commission
June 2018	Recognized as one of 50 Influencers in the State of Florida
June 2018	Honored by BISNOW as leader in the commercial real estate industry
January 2018	Research Innovation Award, Florida Sea Grant
December 2017	FIU College of Arts, Sciences and Education Service Award
October 2016	CLEO (Climate Literacy, Education and Outreach) Leadership Circle Inductee and Advisory Council member
April 2016	Accepted honor on behalf of Sea Level Solutions Center for fostering sea level rise discussions in partnership with the City of Coral Gables
April 2016	Accepted honor on behalf of Sea Level Solutions Center for contributions to the mission of the Miami River Commission

Other Professional Organizations

Jun 2018 – present	American Society of Adaptation Professionals, member
May 2018 – present	Association of State Floodplain Managers and ASFPM Florida Chapter, member
Sep 2010 – 2011, 2014	Ecological Society of America
Jan 2010 - 2011	Limnology and Oceanography
Jan 2010 – 2011, 2014	American Geophysical Union
Jan 1999 – 2004, 2014	Society of Wetland Scientists
Jan 1999 - 2004	Estuarine Research Federation
Oct 1996 – 2004, 2011	Florida Native Plant Society (FNPS)
Dec 1997 – Jan 1999	Natural Areas Association
Jul 1997 – Jan 1999	Cape Florida Restoration Project, volunteer

RESEARCH PRESENTATIONS

Invited Seminars and Symposia Presentations (with titles from last 15 years)

Nov 2019	Coastal and Estuarine Research Federation, Providence, RI – Symposium session - Responses of Marsh Ecosystems to Coastal Change in the Southeastern Everglades, Florida, USA
Apr 2019	Greater Everglades Ecosystem Restoration Conference, Coral Springs, FL - Symposium session - Responses of marsh ecosystems to coastal change in the Southeastern Florida Everglades
Nov 2017	Coastal and Estuarine Research Federation, Providence, RI – Symposium session - Socio-ecological-technological system approaches for coastal urban resilience to extreme flooding
Sep 2017	Florida Sea Grant Science Symposium, Gainesville, FL – Invited Speaker

- Jun 2017 Society of Wetland Scientists, San Juan, PR - Symposium Session - Responses of marsh and mangrove ecosystems to coastal change in the Southeastern Florida Everglades
- Apr 2017 Greater Everglades Ecosystem Restoration Conference, Coral Springs, FL - Symposium session - Carbon cycle science in the Florida Coastal Everglades: Research to inform landscape management
- Sep 2016 INTECOL, Changshu, China – Symposium Session - Ecosystem services and economic benefits of wetland restoration in coastal urban environments
- Aug 2016 Ecological Society of America, Baltimore, MD – Ignite session - C cycling, landscape disturbances and water management: Views through the marsh grass lens
- Aug 2016 Ecological Society of America, Baltimore, MD – Symposium session - Carbon cycle science in the Florida Coastal Everglades: Research to inform carbon and water management
- Apr 2016 National Conference on Ecosystem Restoration, Coral Springs, FL – Symposium session - Mesocosms for Estimating Climate-Change-Induced Peat Collapse
- Feb 2016 American Association for the Advancement of Science 2016 Annual Meeting, Washington D.C., USA - Sea Level Rise at Ground Zero Session - Soil carbon responses to salt water intrusion from projected sea-level rise in the Florida Everglades
- May 2014 Joint Aquatic Sciences Meeting, Portland, OR – “New IPCC Methodology for National Greenhouse Gas Inventories of Managed Wetlands: A Focus on Coastal Ecosystems”
- Feb 2013 LTER mini-symposium, National Science Foundation, Washington, D.C. – “A focus on tropical systems: international LTER research highlights from the Florida Coastal Everglades (FCE)”
- June 2012 International Congress for Ecology (INTECOL), Orlando, FL – “Soil, water and course woody debris CO₂ fluxes and aqueous CO₂ in a tidal mangrove forest in the Florida Everglades”
- Mar 2010 Gumbo Limbo Nature Center, Ecowatch Science Seminar Series, Ft. Lauderdale, FL – “Human alterations in wetland ecosystems: the impacts of water management and climate change”
- Dec 2009 Florida International University, Southeast Environmental Research Center, Departmental Seminar, Miami, FL – “Interactions of biological and hydrogeochemical processes facilitate phosphorus transport, availability and accumulation in an Everglades tree island”
- Dec 2008 Florida International University, Department of Biological Sciences, Departmental Seminar, Miami, FL – “Study of arctic ecosystem changes in the IPY (International Polar Year) using the International Tundra Experiment (ITEX)”
- May 2008 Smithsonian Tropical Research Institute, Bocas del Toro, Panama – “Wetland ecosystem studies in the San San Pond Sak wetland, Panama”
- Oct 2007 Florida International University, Southeast Environmental Research Center, Departmental Seminar, Miami, FL – “Ecosystem research in subtropical and tropical wetlands”
- Apr 2007 10th International Symposium on Wetland Biogeochemistry, Annapolis, MD – “Biogeochemical contributions of tree islands to Everglades wetland landscape nitrogen cycling during seasonal inundation”

- Oct 2006 University of Florida, Tropical Research and Education Center, Homestead, FL – “Everglades Tree Islands – model ecosystems for landscape-scale research”
- Apr 2006 University of Miami Biology Departmental Seminar, Miami, FL – “Ecosystem responses to hydrologic change and mechanisms of nitrogen retention in Everglades tree islands”
- Mar 2006 LTER mini-symposium, National Science Foundation, Washington, D.C. – “Ecosystem responses to hydrologic change in Everglades tree islands: Findings and future directions”
- Sep 2005 South Florida Water Management District – “Investigating ecosystem responses to hydrologic change and mechanisms for nitrogen sequestration in seasonally flooded tree islands of the southern Everglades”

Contributed papers including awards (with titles from last 15 years)

- Sep 2019 International Long-Term Ecological Research Program Open Science Meeting, Leipzig, Germany – oral - The effects of projected sea-level rise on coastal ecosystems in the Everglades, Florida, USA
- Dec 2015 American Geophysical Union, San Francisco, CA – poster – West Africa Greenhouse Gas Inventory Project
- Nov 2015 Coastal and Estuarine Research Federation, Portland, OR –oral – Investigating plant-soil responses to increased salinity and inundation in Everglades coastal peat marshes
- Aug 2015 Ecological Society of America, Baltimore, MD – oral - The effects of projected sea-level rise on Everglades coastal ecosystems: Evaluating the potential for and mechanisms of peat collapse
- Aug 2014 Ecological Society of America, Sacramento, CA – oral - Understanding an iconic landscape through comparative international long-term ecological research
- Feb 2011 North American Carbon Program, New Orleans, LA – poster – “Soil respiration processes in riverine mangroves”
- Aug 2010 Meeting of the Americas, American Geophysical Union, Iguassu Falls, Brazil – poster - “Interactions of biological and hydrogeochemical processes facilitate phosphorus dynamics in an Everglades tree island”
- Aug 2010 Ecological Society of America, Pittsburgh, PA – oral – “Long-term phenological changes in tundra plants in response to experimental warming using the International Tundra Experiment (ITEX) Network”
- July 2010 Greater Everglades Ecosystem Restoration Conference, Naples, FL – oral – “Interactions of biological and hydrogeochemical processes facilitate phosphorus dynamics in an Everglades tree island”
- June 2010 International Polar Year Oslo Science Conference, Oslo, Norway – oral – “Long-term phenological changes in tundra plants in response to experimental warming using the International Tundra Experiment (ITEX) Network”
- Mar 2010 State of the Arctic, Miami, FL – poster – “Study of arctic ecosystem changes in the IPY using the International Tundra Experiment (ITEX)”
- Nov 2007 Estuarine Research Federation, Providence, RI – oral – “Bacterial diversity, enzyme activities, and soil CO₂ flux along a soil P gradient in a coastal peatland, Panama”
- Mar 2007 FCE LTER Network All Scientists Meeting, Miami, FL – poster – “Bacterial diversity, enzyme activities, and soil CO₂ flux along a soil P gradient in a coastal peatland, Panama”

- Mar 2007 FCE LTER Network All Scientists Meeting, Miami, FL – poster – “Nutrient patterns of dwarf *Rhizophora mangle* and *C. jamaicensis* along the southeastern Everglades ecotone”
- Sept 2006 LTER Network All Scientists Meeting, Estes Park, CO – poster – “Biogeochemical connectivity in a complex wetland landscape: nitrogen sequestration by an Everglades tree Island”
- June 2006 Greater Everglades Ecosystem Restoration Conference, Orlando, FL – oral – “Ecosystem responses to hydrologic change in Everglades tree islands”
- June 2006 Greater Everglades Ecosystem Restoration Conference, Orlando, FL – poster – “Biogeochemical connectivity in a complex wetland landscape: nitrogen sequestration by an Everglades tree Island”
- Mar 2006 Florida Coastal Everglades LTER All Scientists Meeting, Miami, FL – poster – “Biogeochemical connectivity in a complex wetland landscape: nitrogen sequestration by an Everglades tree Island”
- Nov 2005 Estuarine Research Federation, Norfolk, VA – oral – “Coupling oligotrophy and peat development in a coastal freshwater swamp of Panama”
- Aug 2005 Ecological Society of America, Montreal, Canada – poster – “Investigating groundwater flow in an Everglades tree island”
- Mar 2005 Florida Coastal Everglades LTER Meeting – poster – “Investigating groundwater flow in an Everglades tree island”
- Mar 2005 International Wetland Biogeochemistry Symposium, Baton, Rouge, LA – oral – “Coupling oligotrophy and peat development in a coastal freshwater swamp of Panama”