

**Tiffany G. Troxler, Ph.D.**

**July 7, 2007**

Research Associate & Florida Coastal Everglades LTER Project Collaborator

Florida International University, Department of Biological Sciences & Southeast Environmental Research Center, OE 148, 11200 SW 108<sup>th</sup> Ave, Miami, FL, 33199; 305-348-1453;  
[troxlert@fiu.edu](mailto:troxlert@fiu.edu)

Research Associate, Institute for Regional Conservation, 22601 SW 152<sup>nd</sup> Ave., Miami, FL, 33170

---

## **Education**

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

## **Research Interests**

Wetland and coastal ecology; biogeochemistry; landscape biogeochemical processes; pattern and process controlling plant community structure; plant-soil interactions; conservation, management and restoration of wetland and coastal landscapes

## **Professional Experience**

### Teaching Experience

- 2007 – present     NCEAS Distributed Graduate Student Seminar – Functional Ecology
- 2007                 NSF Research Experience for Undergraduates Program Mentor
- 2007                 Adjunct Faculty - General Ecology Lecture
- 2006                 NSF Research Experience for Undergraduates Program Mentor
- 
- 2006 – present     FCE LTER Schoolyard Program Mentor

2005	NSF Research Experience for Undergraduates Program Mentor
2004 - 2005	National Oceanic and Atmospheric Administration Environmental Science Research Internship Program Mentor
2004	Adjunct Faculty – Field Applications in Restoration Ecology
2003 – 2004	Graduate Research Assistantship –Florida Coastal Everglades Long Term Ecological Research (FCE LTER) Program
2002 – 2003	Teaching Assistantship - Department of Biological Sciences – Ecology Lab
2002	Adjunct Faculty – Field Applications in Restoration Ecology
2001 – 2002	Graduate Research Assistantship – Southeastern Environmental Research Center
2000 – 2001	Teaching Assistantship - Department of Biological Sciences – Biology Lab
1999 – 2000	Graduate Research Assistantship – Southeastern Environmental Research Center
1998 – 1999	Teaching Assistantship - Department of Biological Sciences – Ecology Lab

### **Professional Organizations, Publications and Presentations**

#### Professional Organizations with primary service role (last five years)

Jul 2005 – Sep 2006	US LTER Network All Scientist's Meeting, Program Committee, poster committee chair
Feb 2004 – Apr 2005	Co-Chair U. S. LTER Graduate Student Collaborative Research Symposium Committee
Jun 2002 – Apr 2005	Co-Chair U. S. LTER Network Graduate Student Committee
Feb 2001 – Mar 2004	Board Member Society for Ecological Restoration (SER) Coastal Plain Chapter
Feb 2001 – Mar 2004	At-Large Representative SER Coastal Plain Chapter
Feb 2001- Feb 2003	Membership Committee Chair SER Coastal Plain Chapter
Aug 2001 – Feb 2002	SER Coastal Plain Chapter Conference Committee
Nov 1999 – May 2000	FNPS State Conference Committee
Aug 2002 – Dec 2003	Vice President Biology Graduate Student Association
Apr 2001 – Dec 2003	President FCE LTER Graduate Student Organization

#### Other Professional Organizations

Jan 1999 – Dec 2005	Society of Wetland Scientists
Jan 1999 – Dec 2005	Estuarine Research Federation
Oct 1996 – Dec 2005	Florida Native Plant Society (FNPS)
Dec 1997 – Jan 1999	Natural Areas Association
Jul 1997 – Jan 1999	Cape Florida Restoration Project, volunteer

## Publications

**Gann, T. T.** 2002. Response of Everglades tree islands to increased freshwater flow (Florida). *Ecological Restoration* 20: 211-212.

**Troxler Gann, T.** and D. L. Childers. 2006. Relationships between hydrology and soils describe vegetation patterns in seasonally flooded tree islands of the southern Everglades, Florida. *Plant and Soil* 279: 273-288.

**Troxler Gann, T.**, D. L. Childers and D. N. Rondeau. 2005. Ecosystem nutrient dynamics and hydrologic variation in tree islands of the southern Everglades. *Forest Ecology and Management* 214: 11-27.

Anderson, W.T., L. Sternberg, M.C. Pinzon, **T. Gann-Troxler**, D.L. Childers, and M. Duever, 2005. Carbon isotopic composition of cypress trees from South Florida and changing hydrologic conditions. *Dendrochronologia* 23(1):1-10.

Wetzel, P. R., A. G. van der Valk, S. Newman, D. E. Gawlik, **T. Troxler Gann**, C. A. Coronado-Molina, D. L. Childers, F. H. Sklar. 2005. Nutrient Redistribution Key to Maintaining Tree Islands in the Florida Everglades. *Frontiers in Ecology and the Environment* 3: 370-376.

**Troxler-Gann, T. G.** Patterns of phosphorus, nitrogen and  $^{15}\text{N}$  along a peat development gradient in a coastal mire, Panama. *Journal of Tropical Ecology*, accepted.

**Troxler-Gann, T.G.** and D.L. Childers. Ecosystem oligotrophy is enhanced with increased freshwater flow in Everglades peatland tree islands. *Ecosystems*, in revision.

**Troxler-Gann, T.G.** and D.L. Childers. Litter decomposition promotes differential feedbacks in an oligotrophic southern Everglades wetland. *Plant Ecology*, in review.

## Presentations (with titles of those given in last six years)

- |          |  |
|----------|--|
| May 2007 | Broward Native Plant Society, Ft. Lauderdale, FL – “Everglades Tree Islands – model ecosystems for landscape-scale research”<br><i>*Invited Speaker</i>  |
| Apr 2007 | 10 <sup>th</sup> International Symposium on Wetland Biogeochemistry, Chesapeake Bay Symposium, Annapolis, MD – “The wet season nitrogen budget of an Everglades tree island: potential role in wetland landscape biogeochemical fluxes”<br><i>*Invited Speaker</i> |
| Mar 2007 | FCE LTER Network All Scientists Meeting, Miami, FL – poster – “Bacterial diversity, enzyme activities, and soil CO <sub>2</sub> 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 <i>Rhizophora mangle</i> and <i>C. jamaicense</i> along the southeastern Everglades ecotone”   |

Oct 2006 University of Florida, Tropical Research and Education Center, Homestead, FL – oral – “Everglades Tree Islands – model ecosystems for landscape-scale research”  
*\*Invited Speaker*

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

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”

Apr 2006 University of Miami Biology Departmental Seminar, Miami, FL – “Ecosystem Responses to Hydrologic Change and Mechanisms of Nitrogen Retention in Everglades Tree Islands”  
*\*Invited speaker*

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”

Mar 2006 LTER mini-symposium, National Science Foundation, Washington, D.C. – “Ecosystem responses to hydrologic change in Everglades tree islands: Findings and future directions”  
*\*Invited speaker*

Nov 2005 Estuarine Research Federation, Norfolk, VA – Oral – “Coupling Oligotrophy and Peat Development in a Coastal Freshwater Swamp of Panama”

Sep 2005 South Florida Water Management District – Oral - “Investigating Ecosystem Responses to Hydrologic Change and Mechanisms for Nitrogen Sequestration in Seasonally Flooded Tree Islands of the Southern Everglades”  
*\*Invited Speaker*

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”

Jul 2004 Association of Tropical Biology and Conservation, Miami, FL – Oral - “Coupling Oligotrophy and Peat Development in a Coastal Freshwater Swamp of Panama”

Jul 2004	International Wetland Ecology Congress (INTECOL), Utrecht, Netherlands – Oral – “Nutrient Mineralization and Accumulation During Litter Decomposition in Seasonally Flooded Tree Islands of the Southern Everglades”
Mar 2004	Florida Coastal Everglades LTER Meeting – Poster – “Nutrient Cycling, Litter Accumulation, and Decomposition in Seasonally Flooded Tree islands of the Southern Everglades” <i>*Best Poster Presentation Award</i>
Jan 2004	Smithsonian Tropical Research Institute, Bocas del Toro, Panamá - “Ecosystem Characterization and Hydrologic Dynamics of Seasonally Flooded Tree Islands in the Southern Everglades” <i>*Invited Speaker</i>
Sep 2003	Estuarine Research Federation, Seattle, WA – interactive poster – “Estimating annual carbon exports from seasonally flooded tree islands in the southern Everglades”
Sep 2003	LTER All Scientists Meeting, Seattle, WA- Poster - “Estimating annual carbon exports from seasonally flooded tree islands in the southern Everglades”
Aug 2003	Society for Wetland Scientists, New Orleans, LA – Poster - “Nutrient cycling, litter accumulation, and decomposition in seasonally flooded tree islands of the southern Everglades” <i>*Honorable Mention</i>
Jul 2003	Florida Native Plant Society, Miami, FL – “Ecology and flora of Everglades tree islands” <i>*Invited Speaker</i>
Jun 2003	Comprehensive Everglades Restoration Program Sub-Group Meeting, Everglades National Park Krome Center, Homestead, FL <i>*Invited Speaker</i>
Apr 2003	Greater Everglades Ecosystem Restoration Meeting, Naples, FL – Oral – “Investigating the response of tree island function to increased water flow in a southern Everglades ecosystem”
Jan 2003	FIU Biology Symposium, Miami, FL – Oral - “Nutrient cycling, litter accumulation, and decomposition in seasonally flooded tree islands of the southern Everglades” <i>*Best Oral Presentation Award - Ph.D. Category</i>
Jan 2003	Florida Coastal Everglades LTER Meeting, Miami, FL – Poster – “Nutrient Cycling, Litter Accumulation, and Decomposition in Seasonally Flooded Tree Islands of the Southern Everglades”
Aug 2002	Ecological Society of America, Tucson, AZ – Oral – “Ecosystem characterization and hydrologic dynamics of seasonally flooded tree islands in the southern Everglades”
Feb 2002	FCE LTER All Scientists Meeting, Miami, FL – Poster – “Ecosystem Characterization and Hydrologic Dynamics of Seasonally Flooded Tree Islands in the Southern Everglades”

- Jan 2002 FIU Biology Symposium, Miami, FL – Oral – “Ecosystem characterization and hydrologic dynamics of seasonally flooded tree islands in the southern Everglades”
- Nov 2001 Estuarine Research Federation, St. Petersburg, FL – Poster – “Investigating tree island community response to increased water flow in a southern Everglades ecosystem”
- Oct 2001 Society for Ecological Restoration, Niagara Falls, Ontario – Oral – “Investigating Tree Island Community Response to Increased Water Flow in a Southern Everglades Ecosystem”
- Aug 2001 Ecological Society of America, Madison, WI – Oral – “Relationships between hydrology and soils describe vegetation patterns in seasonally flooded tree islands of the southern Everglades, Florida”
- Feb 2001 FIU Tropical Biology Symposium, Miami, FL – Poster – “Investigating Tree Island Response to Increased Water Flow in a Southeastern Everglades Ecosystem”

*\*Best Poster Presentation Award - M.S. Category*

### **Fellowships and Grants**

- 2007 National Science Foundation, supplement funds for international travel - \$5000
- 2006 South Florida Water Management District, West Palm Beach , FL, Calculating Nutrient and Hydrologic Fluxes in a Tree island, \$150,000
- 2006 Smithsonian Tropical Research Institute Short-term Post-Doctoral Research Fellowship, \$2000
- 2004 FIU University Graduate School – Dissertation Year Fellowship, \$18,000
- 2004 National Science Foundation Supplemental Grant - LTER Graduate Student Collaborative Research Symposium, \$45,000
- 2004 LTER Network Office – Working Group grant, \$5000
- 2004 FIU Graduate Student Association – Research Grant, \$1000
- 2004 FIU Latin American and Caribbean Center and Center for Transnational and Comparative Studies Tinker Field Research Grant, \$1500
- 2004 FIU Graduate Student Association – Conference Travel Grant, \$500
- 2004 Smithsonian Tropical Research Institute Short-term Pre-Doctoral Research Fellowship, \$1000
- 2003 LTER Network Office – Research Grant, \$500
- 2003 FIU Graduate Student Association - Conference Travel Grant, \$500
- 2003 FIU Graduate Student Association – Research Grant, \$1000
- 2002 FIU Graduate Student Association - Conference Travel Grant, \$500
- 2002 FIU Graduate Student Association – Research Grant, \$1000
- 2001 FIU Graduate Student Association - Conference Travel Grant, \$500
- 2000 FIU Tropical Biology Program - Conference Travel Grant, \$500
- 1999 FIU Tropical Biology Program – Research Grant, \$1000

1999 FIU Tropical Biology Program - Conference Travel Grant, \$500