

CURRICULUM VITAE

PETER CRAWFORD FREDERICK

Professor Emeritus
Department of Wildlife Ecology and Conservation
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Birth Date: September 4, 1956; Wilmington, Delaware

Marital Status: Married, 2 children

Education: Swarthmore College, Swarthmore Pa. BA, June 1978,
major in Biology.

University of North Carolina, Chapel Hill, N.C. PhD
August 1985 in Zoology. Major area of study was
Animal Behavior and Ecology under Dr. R.H. Wiley.
Dissertation Title: "Mating Strategies of White Ibis".

Jobs and Professional Activities:

April 1979 - August 1979: Director of loggerhead sea turtle research team on
Ossabaw Island, Georgia, for Georgia Dept. of Natural Resources.

December 1985 - June 1988: Postdoctoral Research Associate, Department of
Wildlife and Range Sciences, University of Florida.

June - August 1989, January - September 1990: Research Associate, National
Audubon Society Research Department, Tavernier Florida.

September 1990 - January 1992: Research Fellow, Wildlife Conservation International (now Wildlife Conservation Society) and Adjunct Assistant Professor, Department of Wildlife and Range Sciences, University of Florida. Duties included research on wetlands ecology and conservation in Nicaragua, Venezuela, and Botswana.

June 1992 - August 1993: Assistant-In Wildlife Ecology, Department of Wildlife and Range Sciences, University of Florida. .

1993 - 1998: Assistant Research Professor and graduate faculty member, Department of Wildlife Ecology and Conservation, University of Florida.

1998 – 2006: Associate Research Professor, Department of Wildlife Ecology and Conservation, and School of Natural Resources and the Environment, University of Florida.

2007 – 2021: Research Professor, Department of Wildlife Ecology and Conservation, and School of Natural Resources and the Environment, University of Florida. Position currently funded 75% state line, 25% extramural funds.

2010 – 2017. Governor-appointed member of Florida Department of Environmental Protection's Acquisition and Restoration Council, which proposes and ranks lands for purchase by the Florida Forever land preservation initiative. The ARC also reviews all management plans for all state-owned conservation lands in Florida.

2021. Retired, Professor Emeritus, Department of Wildlife Ecology and Conservation, university of Florida.

Teaching Experience:

1979 - 1983: Teaching assistant, Department of Zoology, University of North Carolina, Chapel Hill. Three semesters Introductory Zoology, 3 semesters Animal Behavior.

1982 - 1985: Department of Zoology, University of North Carolina, Chapel Hill. Guest lectures in Social Behavior, Animal Behavior, and Behavioral Ecology.

1986 - 1997: University of Florida, instructor for Wildlife Behavior (3 credits, 1 semester).
Designed and instructed Advanced Animal Behavior Seminar (1 semester, 3 credits).

- Designed and instructed Topics in Waterbird Ecology (2 semesters, Graduate Seminar, not for credit).
- 1986 - 2006 Guest lectures (3 - 5/year) in the following courses: Wildlife Ecology, Avian Biology, Habitat Evaluation, Wildlife Behavior, Conservation Biology, Wetlands Wildlife Ecology, Marine Biology and Coastal Ecology.
- 1997, 1998: Instructor, Wetlands Wildlife Resources (WEC 4443c, 3 credits, core lecture/lab and field course for Wildlife majors), Department of Wildlife Ecology and Conservation, University of Florida.
- 2002-2005 Team-taught SOS 4242, Wetlands, (3 credits).
- 2006 - 2014 Team teaching SOS 4242 (3 credit), team teaching courses in NSF-sponsored Integrated Graduate Education and Research Grant, "Adaptive Management: Wise Use of Wetlands, Water and Watersheds". Developed and co-taught Ecosystems of South Florida (3 credits) a graduate field course emphasizing adaptive management and interdisciplinary problem solving at the watershed scale.
- 2008 Developed and taught section on Physiological Ecology for Foundations of Wildlife Ecology.
- 2014 Guest lectures in Conservation Biology, Coastal Ecology, Natural Resources in a Changing Climate.
- 2015 - 2019 Developed and taught Wetland Management and Research Techniques (WIS4934/6934, 3 credits). Guest lectures in Coastal Ecology, Conservation Biology, Natural Resources in a Changing Climate, Research in Environmental Toxicology, Avian Ecology and Conservation, Unmanned Aerial Systems for Natural Resource Assessment. Participated in the Sea Level Rise and Coastal Ecology graduate course (UF).

Post-docs.

- 2017 - 2020 Javier Zabala Albizua
- 2014 - 2016 Ignacio Rodriguez, now director of Centro de Humedales Rio Cruces, Universidade Austral de Chile, Valdivia
- 2009 - 2011 Ross Tsai, now assistant professor at Chaiyi National University, Taiwan.
- 2009 - 2012 Jennifer Seavey, now director of the Shoals Marine Lab, University of New Hampshire and Cornell University.
- 2008 - 2010 Rena Borkhataria, now Research Assistant Professor at University of Florida.

Mentorship of young faculty:

- 2016 – present. Mentorship committee for Dr. Christina Romagosa, WEC
- 2015 – present. Mentorship committee for Dr. Mathieu Basille, WEC
- 2018 – present. Grant-supported advisor for Dr. Hannah Van der Zanden, UF
Biology
- 2018 – present. Mentorship committee for Dr. Charlie Martin, Department of
Fisheries and Nature Coast Biological Station

Graduate Student Advisement (in rough reverse chronological order):

- Michael Espriella, PhD Program, FAS.
- George Glen, PhD program, Department of Biology, University of Florida.
- Julia Seixas, MS program, University of Georgia, Warnell School of Forestry.
- Diego Sanchez, PhD program, Wildlife Ecology and Conservation. Committee member
- Farah Carrasco, MS. Program, Wildlife Ecology and Conservation. Committee Member.
- Laura Nicholson. MS Program, Wildlife Ecology and Conservation. Committee member.
- Annalee Tweitmann. MS program, Wildlife Ecology and Conservation. Committee Chair. Finished fall 2020
- Wray Gabel, MS program, Wildlife Ecology and Conservation. Committee Chair. Finished 2019
- Travis Thomas, PhD Program, Wildlife Ecology and Conservation. Committee Member. Finished fall 2018
- Hannah Brown, PhD Program, Wildlife Ecology and Conservation UF. Committee Member. Finished 2019.
- Grant Sholten, PhD program, Fisheries and Aquaculture, UF. Committee Member.
- Alexa Mainella, PhD program, College of Engineering. Committee Member.
- Alexandra Gulick, PhD Program, Department of Biology UF. Committee Member.

Ada Bersoza, PhD Program, College of Engineering UF. Committee Member.
Finished 2018.

Sophie Orzechowski, MS program, Department of Wildlife Ecology and
Conservation. Committee Chair. Finished 2018

Simona Picardi, PhD program, Department of Wildlife Ecology and Conservation.
Committee Co-chair with Mathieu Basille. Finished summer 2019

Kwanmok Kim, PhD program, Department of Wildlife Ecology and Conservation.
Committee Chair. Finished fall 2020

Seth Farris, MS program, Department of Wildlife Ecology and Conservation.
Committee member.

Lucas Nell, MS program, Department of Wildlife Ecology and Conservation.
Committee Chair. Graduated Fall 2014, now in PhD program University of
Wisconsin.

Noah Burrell, PhD Program, Department of Wildlife Ecology and Conservation. Co-
Chair with Rob Fletcher. Finished studies 2019, now with USGS, Guam.

Katie Glodzik, PhD Program, Department of Wildlife Ecology and Conservation.
Committee member. Graduated 2017

Katie Haase, PhD Program, Department of Wildlife Ecology and Conservation,
Committee Member. Graduated 2016.

Matthew Burgess, PhD Program, Department of Wildlife Ecology and Conservation.
Committee Member. Graduated 2017.

Rachel Bouchillon, MS program, School of Natural Resources and the Environment.
Committee Member. Graduated Summer 2015.

Yun Ye, PhD program, School of Forest Resources and Conservation. Committee
Member.

Mark Sandfoss, PhD Program, Department of Biology. Committee Member.
Finished fall 2019.

Jenet Dooley, PhD program, Environmental Engineering, Committee Member.
Graduated 2016

Felipe Hernandez, PhD program, Department of Wildlife Ecology and Conservation. Committee Member. Graduated 2016

Eric Suarez, MS Program, Department of Wildlife Ecology and Conservation. Committee Member. Graduated Spring 2015

Louise Venne, PhD Program, Department of Wildlife Ecology and Conservation, IGERT Fellow. Committee Chair. Graduated summer 2012. Now senior ecologist at MacTec, Atlanta, Ga.

Jason Fidorra, MS program, Department of Wildlife Ecology and Conservation, Committee Chair. Graduated summer 2012. Now Landowner Resource Specialist, Washington Department of Fish and Game.

Brittany Burtner, MS program, Department of Wildlife Ecology and Conservation. Committee chair. Graduated spring 2011. Now Biologist with Planning and Environmental Resources, Monroe County FL.

Nilmini Jayasena, PhD program, Department of Wildlife Ecology and Conservation. Committee Chair. Graduated 2010. Now faculty at University of Peradeniya, Sri Lanka.

Rena Borkhataria, PhD program, Department of Wildlife Ecology and Conservation. Committee Chair. Graduated summer 2009. Recipient, EPA STAR fellowship, best student paper award at international scientific meeting. Now in Research Scientist position with Dept. Wildlife Ecology and Conservation, University of Florida, Belle Glade Research Center.

Evan Adams, MS program, Department of Wildlife Ecology and Conservation. Committee Chair. Graduated 2008, PhD program completed at University of Maine 2015 and now working for Biodiversity Research Institute.

Kate Williams, MS program, Department of Wildlife Ecology and Conservation. Committee chair. Graduated 2007, Now working for Biodiversity Research Institute.

Christa Zweig, PhD Program, Department of Wildlife Ecology and Conservation. Committee member. Graduated fall 2008. Now working for South Florida Water Management District.

Alejandro Paredes, MS program, Department of Wildlife Ecology and Conservation. Committee Chair. Now working in conservation and consulting programs in Honduras.

Shannon Bouton, PhD. Program, Department of Natural Sciences and the Environment, University of Michigan. Committee Member. PhD University of Michigan, Now working for Mckinsey Consulting.

Kelly Byram, MS Program, Department of Wildlife Ecology and Conservation, Committee member. Graduated fall 2008.

Omar Figueroa, MS Program. Department of Wildlife Ecology and Conservation, Committee Member. PhD University of Florida, Now Senator in Belize Legislature.

Michael Cheek, MS Program, Department of Biology, Florida International University. Committee Member. Now working as biologist for South Florida Water Management District.

Marcela Machicote, PhD program, Department of Wildlife Ecology and Conservation. Committee member. Dropped out of the program to become a nun.

Sonia Canevelli, PhD program, Department of Wildlife Ecology and Conservation. Committee Member. Graduated, now working for Dept. Agriculture, Argentina.

Julien Martin, PhD. Program, Department of Wildlife Ecology and Conservation. Committee member. Now working for USGS, southeast wetlands science center.

Elizabeth Martin, PhD program, Department of Wildlife Ecology and Conservation. Committee Member. Dropped out of program.

Matthew Bokach, MS program, College of Natural Resources and the Environment. Committee Chair. Graduated spring 2005. Now working for California Division of Forestry in GIS analysis position.

John David Semones, MS. Graduated spring 2003. Department of Wildlife Ecology and Conservation, Committee Chair. Now working as environmental attorney after law degree at Lewis and Clark.

Becky Hylton, MS program, Department of Wildlife Ecology and Conservation, Committee Chair. Graduated Fall 2004. PhD program at North Carolina State University, now working for Partners in Flight.

Ashley Traut, MS. Graduated Fall 2002. Department of Wildlife Ecology and Conservation, Committee member.

LeAnn White, MS. Graduated Spring 2003. Department of Wildlife Ecology and Conservation. Committee member. Finished PhD program at University of Florida, 2007.

Esther Langan, MS program. Graduated summer 2003. Department of Wildlife Ecology and Conservation, Committee member.

David Leonard, PhD. Program, Department of Wildlife Ecology and Conservation. Committee member. Graduated Spring 2005. Now head of Endangered Birds section of Hawaiian Natural Resources program.

Eric Stolen, PhD Program, Department of Wildlife Ecology and Conservation. Committee member. Now working for NASA.

Julie Heath, Phd. Graduated summer 2002. Department of Wildlife Ecology and Conservation. Committee Chair. Associate Professor at Hofstra University, now full Professor at Boise State University.

Greg Babbitt. MS. Graduated summer 2000. Department of Wildlife Ecology and Conservation. Committee Chair. Now associate professor at Arizona State University.

Maria Soledad S epulveda. MS. Graduated fall 1997. Department of Wildlife Ecology and Conservation. **Received three best student paper awards at international scientific meetings.** Committee chair and member. Now Professor at Purdue University.

Deng Jie, MS, graduated summer 1998, Department of Wildlife Ecology and Conservation. Committee Chair. PhD program in Neurobiology, University of Florida, now faculty at Duke University.

Jim Surdick, MS, graduated fall 1998. Department of Wildlife Ecology and Conservation. Committee Chair. Finished PhD program at Center for Wetlands, University of Florida, now senior ecologist for Florida Natural Areas Inventory.

Johanna Salatas, MS. Graduated summer 2000. Department of Wildlife Ecology and Conservation. Committee Chair. Now with Exponent Consulting.

Randy Roth, MS student, Department of Wildlife Ecology and Conservation, University of Florida. Committee member. Now with St. Johns River Water Management District.

Gary Williams. MS, graduated summer 1997, University of Florida, Department of Wildlife Ecology and Conservation. Committee Chair. **Received award for Outstanding Masters Student Research in the Department of WEC for 1996.** Graduated Spring '97. Now with South West Florida Water Management District.

Anne-Maria Van Doorn. MS student, graduated summer 1997, Department of Wildlife Ecology and Conservation, University of Florida. Committee member. Graduated Spring '97.

Mark Hostetler. PhD. University of Florida, Department of Zoology. Committee member. Graduated summer 1997. Now Professor Department of Wildlife Ecology and Conservation, University of Florida.

Tom Workman, MS, School of Forest Resources and Conservation, University of Florida. Committee member. Graduated Summer '96, now leads his own land management company.

Gary Slater. MS student, Department of Wildlife Ecology and Conservation, University of Florida. Committee member. Graduated Fall 1996. U.S. Department of the Interior, then head of private consulting firm.

Jeff Smith. PhD, University of Florida Department of Wildlife and Range Sciences. Committee member. Graduated spring 1994.

Naomi Edelson. MS, Graduated spring 1990, Department of Wildlife and Range Sciences, University of Florida. Served as external advisor. Graduated 1991. Now with National Fish and Wildlife Foundation.

Other advisement:

2007: External reviewer for honors research project for Percy Fitzpatrick Institute of African Ornithology, University of Capetown.

2008: Undergraduate advisor for research projects and special readings: 3 students in WEC, 1 student in FRC.

2012: Advisor for two undergraduate projects in WEC.

2018: Advisor for two undergraduate projects in WEC.

Grants and Awards:

1980: Smith Fund research award. \$125

1981: Sigma Xi Society research award. \$200

1981: Explorer's Club research award. \$1,500

1984: Frank M. Chapman Memorial Research Award
(American Ornithologists Union). \$500

1984: Tokyo Broadcasting Research Award. \$1,800

1984 Sigma Xi research award. \$200

1984: Alexander Wilson Award for best student paper at the
Wilson Ornithological Society annual meeting, Wilmington, N.C. \$100

1987: U.S. Army Corps of Engineers grant. "Wading bird responses to the modified water delivery plan", renewal with M.W. Collopy.	\$130,000
1990: Edwards Award for best journal article from The Wilson Ornithological Society, presented to K.L. Bildstein, W. Post, J. Johnston, and P. C. Frederick, for "Freshwater wetlands, rainfall, and the breeding ecology of White Ibises (<i>Eudocimus albus</i>) in coastal South Carolina. Wilson Bulletin 102:84-98.	
1991: <i>Environmental Protection Agency</i> , "Wading bird use of wastewater wetlands in central Florida.	\$27,000
<i>National Fish and Wildlife Foundation</i> , "Polluted waters and the decline of wading birds in Florida: the parasite connection. With M. G. Spalding and D. J. Forrester.	\$30,000
<i>Wildlife Conservation International</i> , "Ecological modeling in the Okavango Delta of Botswana. With C. S. Holling.	\$8,000
<i>Conservation International</i> , "Review of ecological research in the Okavango Delta of Botswana. With C. S. Holling and C. Hunter.	\$11,500
1992: 1. South Florida Water Management District, "Wading bird nesting success studies in the Water Conservation Areas of the Everglades".	\$70,000
2. Caribbean Conservation Corporation, "Waterbird surveys in the Miskito Coast Protected Area of Nicaragua".	\$4,000
1993: 1. U. S. Army Corps of Engineers, "Wading bird nesting success studies in the Everglades.	\$84,000
2. South Florida Water Management District, "Wading bird nesting success studies in the Water Conservation areas of the Everglades.	\$9,000
3. Florida Department of Environmental Protection, "Effects of environmental mercury on wading bird reproduction in the Florida Everglades. With M. G. Spalding, co-PI.	\$243,854
1994: 1. South Florida Water Management District, "Wading bird nesting success studies in the Water Conservation Areas of the Everglades.	\$140,000
2. Project Lighthawk, "Waterbird populations in La Mosquitia of Honduras.	\$1,477
3. U.S. Fish and Wildlife Service, "Effects of elevated	

	mercury on reproductive success of long-legged wading birds in the Everglades, with Marilyn Spalding, Co-PI.	\$38,300
1995:	Elective Member, American Ornithologists Union.	
1996:		
	1. U.S. Army Corps of Engineers, Wading bird population monitoring and environmental correlates of adult foraging success in the central Everglades.	\$161,959
	2. U.S. Fish and Wildlife Service, Effects of methylmercury on reproduction by Great Egrets, with Marilyn Spalding, Co-PI.	\$39,454
	3. Florida Power and Light Corporation, Bird-strike mortality on an Everglades section of the Levee-Midway powerline.	\$163,333
1997:		
	1. U. S. Army Corps of Engineers, Wading bird population monitoring and environmental correlates of adult foraging success in the central Everglades.	\$181,000
1998:		
	1.U.S. Army Corps of Engineers, Factors affecting breeding status of wading birds in the Everglades. Phase 1 of 4-year project, With Marilyn Spalding, co-PI.	230,896
	3.U.S. Army Corps of Engineers, Factors affecting breeding status of wading birds in the Everglades. Phase 2 of 4-year project, With Marilyn Spalding, co-PI.	213,591
	Florida Department of Environmental Protection. Effects of environmental methylmercury on survival and health of embryonic and juvenile wading birds (Ciconiiformes). With M. G. Spalding, co-PI.	\$38,683
	Chicago Zoological Society. Effects of Ecotourism on the Reproductive success of Wood Storks in the Brazilian Pantanal. With Shannon N. Bouton.	\$3,200
1999:	U.S. Army Corps of Engineers. Factors affecting breeding status of wading birds in the Everglades. With Marilyn G. Spalding.	\$206,468
2000:	U.S. Army Corps of Engineers. Factors affecting breeding status of wading birds in the Everglades.	237,664
	Florida Dept. of Environmental Protection. Retrospective	\$12,000

	Study of mercury in aquatic bird tissues, Phase I.	
2001:	U.S. Army Corps of Engineers. Factors affecting breeding status of wading birds in the Everglades.	240,594
	Florida Department of Environmental Protection. Retrospective Study of mercury in aquatic bird tissues, Phase II.	\$9,500
	U.S. Geological Survey. Assessment of the flight-line Method of estimating wading bird colony size and Composition. With Rich Paul and Anne Schnapf of The National Audubon Society.	\$12,508
2002.	U.S. Army Corps of Engineers. Monitoring of wading bird Nesting and study of Wood Stork survival and movements.	\$344,679
2003.	U.S. Army Corps of Engineers. Monitoring of wading bird Nesting and study of Wood Stork survival and movements.	\$336,620
2004.	U.S. Army Corps of Engineers. Monitoring of wading bird nesting and study of Wood Stork survival and movements.	\$342,623
	Florida Department of Environmental Protection. Effects of Environmental mercury exposure on development and reproduction in White Ibises.	\$392,801
	U.S. Fish and Wildlife Service. Effects of environmental Mercury exposure on development and reproduction in White Ibises.	\$162,012
	U.S. Fish and Wildlife Service. Modeling the response of Wood Storks to hydrologic restoration.	\$300,000
2005.	U.S. Geological Survey. Effects of Environmental mercury exposure on development and reproduction in White Ibises.	\$476,121
	U.S. Army Corps of Engineers. Monitoring of wading bird Reproduction in WCAS 1, 2, and 3 of the Everglades.	\$839,400
	U.S. Army Corps of Engineers. Wading bird colony location, Timing, and Wood Stork nesting success.	\$337,132
2007.	U.S. Army Corps of Engineers/USGS. Wading bird colony location, timing and Wood Stork nesting success.	\$243,861

	U.S. Department of the Interior, Critical Ecosystems Studies Initiative. Predicting Wood Stork (<i>Mycteria americana</i>) nesting dynamics in response to hydrological change in ENP. PI, with Rena Borkhataria Co-PI.	\$376,844
	Georgia Department of Natural Resources. Finding Wood Stork habitat and conserving the right features. PI, with Ken Meyer	\$60,000
	South Florida Water Management District. Finding Wood Stork habitat and conserving the right features. PI, with Ken Meyer.	\$20,043
	The Felburn Foundation. Finding Wood Stork habitat and conserving the right features. PI, with Ken Meyer.	\$26,523
	U.S. Army Corps of Engineers. Wading Bird Colony Location, Size, Timing and Wood Stork and Roseate Spoonbill Nesting Success.	\$155,739
	U.S. Army Corps of Engineers. Effects of methylmercury on development, reproduction and survival of White Ibises: a captive experiment.	\$210,981
	Elected Fellow of the American Ornithologists Union.	
2008.	U.S. Army Corps of Engineers/USGS. Wading Bird Colony Location, Size, Timing and Wood Stork and Roseate Spoonbill Nesting Success.	\$101,652
	South Florida Water Management District. An Assessment of the Use of Unmanned Aerial Systems for Surveys of Wading Birds in the Everglades.	\$30,000
	South Florida Water Management District. Juvenile great egret feather collections for total mercury analysis	\$6,726
	National Fish and Wildlife Foundation/The Southern Company. Wood Stork Habitat Analysis and Conservation	\$104,278
2009:	U.S. Army Corps of Engineers/USGS. Wading Bird Colony Location, Size, Timing and Wood Stork and Roseate Spoonbill Nesting Success.	\$110,903
	U.S. Army Corps of Engineers. Monitoring of Woodstork	\$124,613

	and Wading Bird Reproduction In the Everglades	
	South Florida Water Management District. Juvenile great egret feather collections for total mercury analysis	\$6,726
2010:	U.S. Army Corps of Engineers/USGS. Wading Bird Colony Location, Size, Timing and Wood Stork and Roseate Spoonbill Nesting Success.	\$110,903
	U.S. Army Corps of Engineers. Monitoring of Woodstork and Wading Bird Reproduction In the Everglades.	\$221,200
	South Florida Water Management District. Juvenile great egret feather collections for total mercury analysis	\$6,726
	Florida Sea Grant. Identifying Magnitude and Sources of Change in Oyster Reefs in the Big Bend Area of Florida.	\$10,000
	U.S. Fish and Wildlife Service. Identifying Magnitude And Sources of Change in Oyster Reefs in the Big Bend Area of Florida.	\$15,649
	IFAS internal Funding. Identifying Magnitude And Sources of Change in Oyster Reefs in the Big Bend Area of Florida.	\$40,000
2011:	U.S. Army Corps of Engineers. Monitoring of Woodstork & Wading Bird Reproduction in the Water Conservation Areas of the Everglades	\$246,915
	National Fish and Wildlife Foundation. American Oystercatcher habitat restoration in Florida, Co-PI with Janell Brush, Florida Fish and Wildlife Conservation Commission.	\$47,307
	South Florida Water Management District. Juvenile Great Egret Feather Collections for Total Mercury Analysis	\$5,381
	U.S. Geological Service, Biodiversity Research Institute Data Management in Support of Rsch on Great Egret Responses to Exposure to Oiling Following the Deepwater Horizon Oil Spill	\$33,737
	U.S. Army Corps of Engineers. Wading Bird Colony Location, Size, Timing and Wood Stork and Roseate Spoonbill Nesting	195,768

Success.

- 2012: U.S. Army Corps of Engineers. Comprehensive Everglades Restoration, Monitoring and Assessment Program: Wading bird colony location, size, timing and Wood Stork and Roseate Spoonbill reproductive success in the Water Conservation Areas of the Everglades. 106,663
- U.S. Army Corps of Engineers: Wood Stork and Roseate Spoonbill Colony location and nest success. 259,911
- National Fish and Wildlife Foundation. Oyster reef restoration in Florida's Big Bend. With co-PI's Jennifer Seavey, Bill Pine and Leslie Sturmer. 53,587
- National Atmospheric and Oceanic Administration. Restoring Resilient Oyster Reefs in Florida's Big Bend. With Co-PI's Jennifer Seavey, Bill Pine and Leslie Sturmer. 162,234
- 2013: U.S. Army Corps of Engineers. Comprehensive Everglades Restoration, Monitoring and Assessment Program: Wading bird colony location, size, timing and Wood Stork and Roseate Spoonbill reproductive success in the Water Conservation Areas of the Everglades. 106,663
- U.S. Army Corps of Engineers: Wood Stork and Roseate Spoonbill Colony location and nest success. 259,911
- National Fish and Wildlife Foundation Shell Marine program "American Oystercatcher habitat restoration in Florida" Co-PI With J. Brush, Florida Fish and Wildlife Conservation Commission. 141,085
- 2014: U.S. Army Corps of Engineers. Comprehensive Everglades Restoration, Monitoring and Assessment Program: Wading bird colony location, size, timing and Wood Stork and Roseate Spoonbill reproductive success in the Water Conservation Areas of the Everglades. 106,663
- U.S. Army Corps of Engineers: Wood Stork and Roseate Spoonbill Colony location and nest success. 259,911
- Florida Sea Grant: Quantifying a novel ecosystem service of oyster reefs: estuarine freshwater entrainment. PI, with Arnoldo Valle-Levinson, David Kaplan, and Maitane Olabarrietta (ESSIE). 10,000
- Florida Senate: Technical Review of Options to Move Water From Lake Okeechobee to the Everglades. Co-PI with Wendy Graham (PI), 249,923

Tom Fraser (SNRE), Karl Havens (Florida Sea Grant), Ramesh Reddy (Soil and Water Science) and Mary Jane Angelo (College of Law).

2015: U.S. Army Corps of Engineers. Comprehensive Everglades Restoration, Monitoring and Assessment Program: Wading bird colony location, size, timing and Wood Stork and Roseate Spoonbill reproductive success in the Water Conservation Areas of the Everglades. 106,663

U.S. Army Corps of Engineers: Wood Stork and Roseate Spoonbill Colony location and nest success. 259,911

2016 U.S. Army Corps of Engineers. Comprehensive Everglades Restoration, Monitoring and Assessment Program: Wading bird colony location, size, timing and Wood Stork and Roseate Spoonbill reproductive success in the Water Conservation Areas of the Everglades. 106,663

U.S. Army Corps of Engineers: Wood Stork and Roseate Spoonbill Colony location and nest success. 259,911

Florida Fish and Wildlife Conservation Commission: Detection of Burmese Pythons via e-DNA at a critical resource: wading bird breeding colonies. With M. Hunter and S. Orzechowski. 42,900

National Fish and Wildlife Foundation: Recovery and resilience of oyster reefs in the Big Bend of Florida. With W. Pine and L. Sturmer. 7,332,573

2017 U.S. Army Corps of Engineers. Comprehensive Everglades Restoration, Monitoring and Assessment Program: Wading bird colony location, size, timing and Wood Stork and Roseate Spoonbill reproductive success in the Water Conservation Areas of the Everglades. 106,663

U.S. Army Corps of Engineers: Wood Stork and Roseate Spoonbill Colony location and nest success. 259,911

2018 U.S. Army Corps of Engineers. Comprehensive Everglades Restoration, Monitoring and Assessment Program: Wading bird colony location, size, timing and Wood Stork and Roseate Spoonbill reproductive success in the Water Conservation Areas of the Everglades. 106,663

U.S. Army Corps of Engineers: Wood Stork and Roseate Spoonbill Colony location and nest success. 259,911

Florida Sea Grant Scholarship awarded to Kwanmok Kim 2,000

Through PCF

2019. U.S. Army Corps of Engineers. Comprehensive Everglades Restoration, Monitoring and Assessment Program: Wading bird colony location, size, timing and Wood Stork and Roseate Spoonbill reproductive success in the Water Conservation Areas of the Everglades. 106,663

U.S. Army Corps of Engineers: Wood Stork and Roseate Spoonbill Colony location and nest success. 259,911

Martin, J., P.C. Frederick, S. Yurek, H. Waddle, W.E. Pine III, and D. Chagaris. Application of decision analysis for oyster reef restoration in the Gulf of Mexico. U.S. Geological Survey. \$ 24,998

2020. Frederick, P.C. and M. Ernest. U.S. Army Corps of Engineers. Comprehensive Everglades Restoration, Monitoring and Assessment Program: Wading bird colony location, size, timing and Wood Stork and Roseate Spoonbill reproductive success in the Water Conservation Areas of the Everglades. \$106,663

Frederick, P.C. and M. Ernest. U.S. Army Corps of Engineers: Wood Stork and Roseate Spoonbill Colony Location and Nest Success. \$259,911

Frederick, P.C. and M. Ernest. Use of unmanned aerial vehicles for estimating size of wading bird breeding colonies and success of nesting in the Water Conservation Areas of the Everglades. \$9,150

Recipient of the Everglades Champion Award, awarded annually By Audubon of Florida at the annual Audubon Assembly, November 2020.

2021. Frederick, P.C. and M. Ernest. U.S. Army Corps of Engineers. Comprehensive Everglades Restoration, Monitoring and Assessment Program: Wading bird colony location, size, timing and Wood Stork and Roseate Spoonbill reproductive success in the Water Conservation Areas of the Everglades. \$106,663

Frederick, P.C. and M. Ernest. U.S. Army Corps of Engineers: Wood Stork and Roseate Spoonbill Colony Location and Nest Success. \$259,911

Professional Organizations, current membership:

American Ornithological Society (Elective Member, 1995, Fellow 2007, Local Chair 2011)
The Waterbird Society (past President, Vice President, Secretary)
Ecological Society of America
IUCN Working Group on Herons
Wilson Ornithological Society (past Councillor)
IUCN Stork, Ibis and Spoonbill Specialist Group

Professional Organizations - Service:

- 1987: Local Committee, Raptor Research Foundation Annual Meeting.
- 1989: Student Paper Judge, Paper Session Chair, Colonial Waterbird Society.
- 1990: Student Paper Judge, Paper Session Chair, Colonial Waterbird Society.
- 1992: Resolutions Committee Chair, Colonial Waterbird Society.
Resolutions Committee Chair, Paper Session Chair for Wilson Ornithological Society .
- 1993: Secretary, Student Poster Judge, Student Paper Judge, Student Travel Awards Chair, Bylaws Committee Chair, Colonial Waterbird Society.
- 1994: Secretary, Resolutions Committee Chair, Bylaws Committee Chair, Colonial Waterbird Society.
- 1995: Secretary, Resolutions Committee Chair, Bylaws Committee Chair, Colonial Waterbird Society
- 1996: Secretary and Bylaws Committee for the Colonial Waterbird Society, Councillor for the Wilson Ornithological Society.
- 1997: Secretary for the Colonial Waterbird Society, Councillor for the Wilson Ornithological Society.
- 1998: Hosted annual meeting of Colonial Waterbird Society and of Flamingo Research Group in Miami, October 1998
Councillor for Wilson Ornithological Society.
Corresponding Editor, *Conservation Biology*
- 1999: Councillor, Wilson Ornithological Society,
Student Paper Judge, The Waterbird Society.
- 2000: Vice-President, The Waterbird Society, Chair of Scientific Program Committee.

- 2001: Vice-President, The Waterbird Society, Chair of Scientific Program Committee.
- 2002: President, The Waterbird Society
- 2003: President, The Waterbird Society. Served on US Department of the Interior blue ribbon panel to integrate avian science into environmental decision-making in south Florida restoration.
- 2004: Councillor, The Waterbird Society. Member of Search Committee for new Editor, The Waterbird Society. Member of Committee to find new Membership Services, American Ornithologists Union.
- 2004: Councillor, co-organizer of annual meeting, The Waterbird Society.
- 2005: Councillor, co-organizer of annual meeting, The Waterbird Society.
- 2005 – present. Member of governing board of Wetlands Academic Cluster, University of Florida.
- 2006: Councillor, The Waterbird Society
- 2007 – 2008: Strategic Planning Committee, The Waterbird Society
- 2008: Chair, Local Committee for 2011 meeting of the American Ornithologists Union. Session Moderator, Annual meeting of The Wildlife Society, Miami FL.
- 2009 - 2011: Chair, local committee for 2011 meeting of the American Ornithologists Union, Jacksonville, FL.

Reviews:

- 1984: Wilson Bulletin.
- 1985: Wilson Bulletin (2), Journal of Field Ornithology (3), The Auk.
- 1986: Colonial Waterbirds, Wilson Bulletin (2), Journal of Field Ornithology (2).
- 1987: The Condor, Raptor Research, Journal of Field Ornithology, Proceedings of Southeastern Estuarine Research Society Meetings.
- 1988: National Science Foundation, Journal of Field Ornithology.
- 1989: Journal of Field Ornithology (2), The Auk (2), Bird-Parasite Interactions, Ecology, Evolution and Behavior (2), Audubon.
- 1990: Journal of Field Ornithology, Colonial Waterbirds, The Auk, New York State Natural Heritage Program, South Florida Water Management District, 1989 Everglades Symposium Proceedings, The Condor.
- 1991: The Auk (2), Colonial Waterbirds (3), Journal of Field Ornithology (2), Animal Behaviour, The Wilson Bulletin.
- 1992: The Condor, Animal Behavior (3), Wilson Bulletin (2), Colonial Waterbirds, St. Lucie Press (6).
- 1993: National Science Foundation, Colonial Waterbirds (2), Florida Field Naturalist (2), the Auk, The Condor, Everglades, the ecosystem and its restoration (4 chapters).
- 1994: Animal Behaviour, Encyclopedia of Environmental Biology, The Condor (2), U.S. Fish and Wildlife Service, Florida Game and Fresh Water Fish Commission (2), Conservation Biology.

- 1995: The Auk, Florida Breeding Bird Atlas (7), Colonial Waterbirds (3), Bulletin del Grup Catala D'annelament, The Wilson Bulletin, Condor.
- 1996: Conservation Biology, The Wilson Bulletin (2), Colonial Waterbirds, Southwestern Naturalist, The Condor.
- 1997: Conservation Biology, The Condor, The Ostrich.
- 1998: The Auk, The Wilson Bulletin (2), Bulletin del Grup Catala D'annelament, Florida Department of Environmental Protection, Ecology, Hudson River Foundation, National Fish and Wildlife Foundation (2).
- 1999: Condor, Journal of Field Ornithology, Pineapple Press
- 2000: Auk, Condor, Ecological Monographs, Journal of Applied Ecology
- 2001: Wilson Bulletin, Waterbirds, Ibis, Children's book on birds (Grolier Press), book for University of Georgia Press, Journal of Field Ornithology (2).
- 2002: Waterbirds, Wilson Bulletin, Journal of Field Ornithology (2), Southeastern Naturalist.
- 2003: Journal of Field Ornithology, [Adaptive Monitoring and Assessment for the Comprehensive Everglades Restoration Plan \(National Academy of Sciences\)](#)
- 2004: Wilson Bulletin, The Auk, Journal of Field Ornithology
- 2005: Journal of Tropical Ecology, Environmental Bioindicators, Wilson Bulletin, Archbold Biological Station, The Auk.
- 2006: The Auk, BioScience.
- 2007: Journal of Environmental Management; Journal of Field Ornithology
- 2008: Tropical Ecology, Wildlife Research, Ornitologia Colombiana, Biotropica, Waterbirds (2), Ibis, National Science Foundation, The Condor, Florida Field Naturalist, The Auk.
- 2009: The Wilson Journal of Ornithology, Southeastern Naturalist, The Auk.
- 2010: The Auk, Zoological Studies, External Reviewer for MSc thesis University of Capetown, Journal of Field Ornithology, Ecological Engineering.
- 2011: Ecotoxicology, Ecological Indicators, Environmental Toxicology, African Journal of Zoology.
- 2012: The Auk, Archives of Environmental Contamination and Toxicology, Wetlands, IBIS, National Science Foundation, PLoS One.
- 2013: Environmental Science and Technology, Ecohydrology, U.S. Fish and Wildlife Service endangered species petition review, IBIS, Environmental Toxicology and Chemistry, Biotropica
- 2014: Ecotoxicology, Journal of Wildlife Disease, National Park Service, National Fish and Wildlife Foundation, Environmental Pollution, Estuaries and Coasts, Animal Behaviour.
- 2015: Ecology, Scientific Reports (Nature), Waterbirds, Movement Ecology.
- 2016: The Condor, Wilson Journal of Ornithology, Landscape and Urban Planning, Current Zoology, Environmental Pollution, Waterbirds.
- 2017: Environmental Research, Behavioural Ecology and Sociobiology, The Condor, International Journal for Parasitology, Waterbirds, Ecotoxicology. External reviewer for two projects for Louisiana RESTORE ACT Center for

- Excellence. External reviewer for faculty T&P package for Department of Biological Sciences, Florida Atlantic University.
- 2018: Journal of Field Ornithology, Ecotoxicology. Waterbirds. Journal of Applied Ecology. Served on the teaching review panel for Dr. Mark Clark, fall 2018. Participated in review of USFWS proposed project to construct a wading bird colony at Ding Darling NWR.
- 2019: Wetlands, Environmental Science and Technology (2), Waterbirds, Ecotoxicology, UF EDIS publications, Marine Ecology Progress Series, Science of the Total Environment.
2020. Estuaries and Coasts. Journal of Animal Ecology. Environmental Toxicology and Chemistry. Wetlands Ecology and Management.

Papers presented at scientific meetings:

- 1984: "Parental feeding behavior and nestling salt balance in White Ibises. J. Johnston, K. L. Bildstein, S. F. Olson and **P. C. Frederick**, presented by KLB at the annual meeting of the American Society of Zoologists, Denver Colorado.
- "Mating strategies of White Ibises". **P.C. Frederick**, presented at the annual meeting of the Wilson Ornithological Society, Wilmington, N.C. Awarded the Alexander Wilson Award for best student paper.
- "Male responses to cuckoldry in the White Ibis". P.C. Frederick, presented at the annual meeting of the Colonial Waterbird Society, Ithaca, New York.
- 1985: "Numbers of White Ibises feeding and breeding in the North Inlet estuary. K.L. Bildstein, J. Johnston and P. C. Frederick, presented by KLB at the annual meeting of the Colonial Waterbird Society, San Francisco Ca.
- "Extrapair copulations in the mating system of White Ibises". P.C. Frederick, presented at the annual meeting of the American Ornithologists Union, Tempe Arizona.
- "Factors influencing the frequency of extrapair copulations in White Ibis". P.C. Frederick, presented at the annual meeting of the Colonial Waterbird Society.
- "The mating system of White Ibises". P.C. Frederick, presented at the annual meeting of the Animal Behaviour Society, Raleigh, North Carolina.

1986: "Tidal influences and nest survival at a colony in coastal South Carolina".
P.C. Frederick, presented at the annual meeting of the Colonial Waterbird Society, Charleston South Carolina.

"Chronic tidally-induced nest failure in a colony of White Ibises.
P.C. Frederick, presented at the annual meeting of the Wilson Ornithological Society, Gatlinburg, Tennessee.

1988: "The relative importance of biotic and abiotic factors in nutrient processing in a South Carolina estuary. K. L. Bildstein, E. Blood and P. C. Frederick, presented by KLB at the annual meeting of the Ecological Society of America, Davis, California.

"Hydrological cues associated with the initiation and abandonment of nesting by White Ibises (Eudocimus albus) in the Everglades of Florida, U.S.A." P. C. Frederick, presented at the First International Symposium on the Status and Conservation of Scarlet Ibises in Caracas, Venezuela.

"The importance of freshwater wetlands in the breeding ecology of coastal White Ibises (Eudocimus albus)". K.L. Bildstein, W. Post, J. Johnston and P. C. Frederick, presented by KLB at the First International Symposium on the Status and Conservation of Scarlet Ibises in Caracas, Venezuela.

"Effects of predation, rainfall, and surface-water conditions on nesting success of six species of wading birds in the Florida Everglades. P.C. Frederick and M. W. Collopy, presented by PCF at the annual meeting of the American Ornithologists Union, Fayetteville, Arkansas.

"Hydrological conditions associated with the initiation and abandonment of nesting by White Ibises in the Florida Everglades. P.C. Frederick and M. W. Collopy, presented by PCF at the annual meeting of the Wilson Ornithological Society, Philadelphia, Pa.

"Tests of two effects of researcher disturbance in Everglades wading bird colonies: frequency of visits and egg marking. P.C. Frederick and M. W. Collopy, presented by PCF at the annual meeting of the Colonial Waterbird Society, Washington, D. C.

1989: "Long term studies of White Ibises in coastal South Carolina. K. L. Bildstein, J. Johnston and P. C. Frederick, presented by KLB at the annual meeting of the Cooper Ornithological Society, Moscow Idaho.

1990: "Responses of estuarine and marsh fishes to cold snaps: implications for

nesting ciconiiform birds. P. C. Frederick and W. F. Loftus, presented by PCF at the annual meeting of the Colonial Waterbird Society, St. Johns Newfoundland.

"Long term study of White Ibises in coastal South Carolina, 1979 - 1989. K. L. Bildstein, J. Johnston, and P. C. Frederick, presented by KLB at the annual meeting of the Gulf Coast Estuarine Research Society, Beaumont, Texas.

"Research priorities for the conservation of long-legged wading birds in North American wetlands". P. C. Frederick and M. W. Collopy, presented by PCF at the annual meeting of the Society for Conservation Biology, Gainesville, Florida.

1991: "Cold-weather behavior of marsh fishes as a determinant of nesting success by wading birds (ciconiiformes) in southern Florida Marshes. P. C. Frederick and W. F. Loftus, presented at the annual meeting of the Florida chapter of the American Fisheries Society, Brooksville Florida.

1992: "Monitoring of colonial waterbirds in the United States: needs and priorities". R. M. Erwin, P. C. Frederick and J. L. Trapp. Presented by RME at the International Wetlands and Waterfowl Research Bureau Annual Meeting, Tampa Florida.

"Ciconiform use of wetlands receiving wastewater effluent in Florida". P.C. Frederick and S. M. McGehee, presented by PCF at the annual meeting of the Colonial Waterbird Society, Oxford, Mississippi.

"Consequences of coastal breeding location on reproductive success of day-herons in southern Florida. P. C. Frederick, R. Bjork, G. T. Bancroft and G. Powell, presented by PCF at the annual meeting of the Wilson Ornithological Society, Kissimmee, Florida.

1993: "Foraging niche separation and foraging flock dynamics of seven species of ibises in Venezuela. P. C. Frederick and K. L. Bildstein, presented by PCF at the annual meeting of the Colonial Waterbird Society, Arles France.

1994: "Ecological significance of breeding population movements of White Ibises (Eudocimus albus) in the southeastern United States. P. C. Frederick, K. L. Bildstein, B. Fleury and J. C. Ogden, presented by PCF at the annual meeting of the Colonial Waterbird Society, Wrightsville Beach, North Carolina.

"Mercury contamination in Great Egrets (*Casmerodius albus*) in southern Florida. M. S. Sepulveda, M. G. Spalding, and P. C. Frederick, presented by MSS at the annual meeting of the Colonial Waterbird Society, Wrightsville Beach, North Carolina. **Awarded best student paper award for 1994.**

1995: "Mercury contamination in wading birds in the Florida Everglades". M.S. Sepulveda, M. G. Spalding, and P. C. Frederick, presented by MSS at the joint annual meeting of the Society of Zoo Veterinarians.

"Comparison of aerial and ground techniques for discovery and census of long-legged wading bird (Ciconiiformes) nesting colonies in the Florida Everglades". P.C. Frederick, T. Towles, R. Sawicki and G. T. Bancroft. Presented by PCF at the joint meeting of the Colonial Waterbird Society and the Pacific Seabird Group, Victoria, British Columbia.

1996: "Elevated mercury concentrations in piscivorous bird eggs from south Florida". D. D. Day, W. N. Beyer, A. Morton, and P. C. Frederick. Presented by D. Day as a poster at 1996 EPRI Wildlife Mercury Workshop, Fairfax, Virginia.

"Mercury contamination, health, and reproductive success of wading birds in the Florida Everglades. M. G. Spalding, P. C. Frederick, M. S. Sepulveda and G. W. Williams. Presented by MGS at 1996 EPRI Wildlife Mercury Workshop, Fairfax, Virginia.

"Effects of environmental methylmercury on wading bird appetites and reproduction". P. C. Frederick, M. G. Spalding, G. W. Williams and M. S. Sepulveda. Presented by PCF at the third annual Florida Mercury Workshop, Orlando, FL.

"Measuring avian reproduction on an ecosystem scale: reproductive success measures are poor predictors of annual productivity of Everglades wading birds". P. C. Frederick. American Ornithologists Union, Boise, ID, August 1996.

"Philopatry and nomadism: contrasting long-term movement behavior and population dynamics of White Ibises and Wood Storks suggest different regional conservation strategies". P. C. Frederick and J. C. Ogden. Presented by PCF and JCO at the 1996 meeting of the Colonial Waterbird Society, Charleston, S.C.

"Effects of chronic, low concentrations of dietary methylmercury on appetite and hunting behavior of juvenile Great Egrets." S. Bouton, P. C. Frederick,

M. G. Spalding and Heather Lynch. Presented by S. Bouton at the 1996 meeting of the Colonial Waterbird Society, Charleston, S.C.

“Do bird-flight diverters on powerlines affect diurnal flight behavior and striking rates of wading birds (Ciconiiformes)?”. D. Jie and P. C. Frederick. Presented as a poster by D. J. at the 1996 meeting of the Colonial Waterbird Society, Charleston, S. C.

1997: “Mercury contamination of great egret nestlings from southern florida and its effects on health and survival”. M. S. Sepúlveda, P. C. Frederick, And M. G. Spalding. Presented by MSS at the annual meeting of the Colonial Waterbird Society, Lafayette La. October 1997. **Awarded Best Student Paper Award for 1997.**

“Energetic requirements of nestling wading birds”. J. Salatas and P. C. Frederick. Presented by J. Salatas at annual meeting of the Walt Dineen Society (The Everglades research society), North Miami Beach, Florida, May 1997.

“Measuring avian reproduction on an ecosystem scale: reproductive success measures are poor predictors of annual productivity of Everglades wading birds. P. C. Frederick, presented at annual meeting of the Walt Dineen Society (The Everglades research society), North Miami Beach, Florida, May 1997.

“Environmental determinants of wading bird foraging success”. J. Surdick and P. C. Frederick, presented by JS at annual meeting of the Walt Dineen Society (The Everglades research society), North Miami Beach, Florida, May 1997.

“The importance of the Caribbean coastal wetlands of Nicaragua and Honduras to central American populations of waterbirds and Jabiru storks (*Jabiru mycteria*)”. P. C. Frederick, J. Correa Sandoval, C. Luthin and M. G. Spalding. Presented by PCF at the annual meeting of the Colonial Waterbird Society, Lafayette La. October 1997.

“Environmental determinants of foraging success in four wading bird species (Ciconiiformes) in the Everglades”. J. S. Surdick, P. C. Frederick, and F. Jordan. Presented by JS at the annual meeting of the Colonial Waterbird Society, Lafayette La. October 1997.

“Mercury contamination of great egret nestlings from southern florida and its effects on health and survival”. M. S. Sepúlveda, P. C. Frederick, And M. G. Spalding. Presented by MSS at the annual meeting of the Colonial Waterbird

Society, Lafayette La. October 1997. **Awarded Best Student Paper Award for 1997.**

“Influence of food consumption on body condition in nestling wading birds”. J. Salatas and P. C. Frederick. Presented by JS at the annual meeting of the Colonial Waterbird Society, Lafayette La. October 1997.

1998:

“Extensive feather growth during the nestling stage provides Great Egrets protection against sublethal effects of dietary methylmercury poisoning”. P. C. Frederick, M. G. Spalding, S. Bouton and H. Lynch. Presented by PCF at the North American Ornithological Conference, St. Louis MO, April 1998.

“The effects of tourist disturbance on Wood Stork breeding behavior and nesting success in the Brazilian Pantanal”. S. N. Bouton and P. C. Frederick, presented by SNB at the North American Ornithological Conference, St. Louis MO, April 1998.

“Food consumption in nestling wading birds.” J. Salatas and P.C. Frederick, presented by JS at the Colonial Waterbird Society annual meeting, Miami Fl. Oct. 1998. **Winner, best student paper award.**

“Effects of methylmercury on experimentally exposed great egret nestlings and fledglings”. M.G. Spalding, P. C. Frederick, H. Lynch, and S. N. Bouton. Presented by MGS at the Colonial Waterbird Society annual meeting, Miami Fl. Oct. 1998.

Exposure of great egret nestlings to mercury through diet in the everglades ecosystem. P.C. Frederick, M. G. Spalding, M. S. Sepulveda, G. E. Williams, L. Nico, and R. Robins. Presented by PCF at the annual meeting of the Wildlife Disease Society, Madison WI August 1998.

Managing the effects of tourism on wood stork breeding behavior and success in the Brazilian Pantanal. S. N. Bouton and P. C. Frederick. Presented by SNB at the Colonial Waterbird Society annual meeting, Miami Fl. Oct. 1998.

“Why do male scarlet ibises have longer bills than females?”. G. Babbitt and P. C. Frederick. Presented by GB at the Colonial Waterbird Society annual meeting, Miami Fl. Oct. 1998. **Winner, best student poster award.**

“Does body condition limit the reproduction of captive scarlet ibises?”. G. Babbitt and P. C. Frederick. Presented by GB at the Colonial Waterbird Society annual meeting, Miami Fl. Oct. 1998.

1999:

“Community structure and population dynamics of breeding wading birds in the Everglades”. P. C. Frederick. Presented by P.C.F. at the Wilson Ornithological Society annual meeting, Colby College, Waterville ME. June 1999.

“When do male ibises have longer bills than females? : the evolution of sexual bill dimorphism within colonial ibis species”. Babbitt, G. A. and P. C. Frederick. Presented by GAB at the Waterbird Society Meeting, Grado, Italy. November 1999.

“Population dynamics and reproductive success of breeding wading birds in the everglades: source or sink?”. Frederick, P.C., K. Portier and G. T. Bancroft. Presented by PCF at the Waterbird Society Meeting, Grado, Italy. November 1999.

2000:

“Reproductive Physiology of White Ibises (*Eudocimus albus*): Towards Conservation of a Nomadic Species”. Heath, J. and P. C. Frederick. Presented as a poster by J.H. at The International Society of Avian Endocrinology annual meeting, 28 Jan. - 2 Feb. 2000, Varanasi India.

“Effects of intermittent breeding on population dynamics of wading birds in the Everglades: source, sink, or link in a chain?. Frederick, P.C., K. Portier. and G. T. Bancroft. Presented orally by P.C. Frederick at the joint millennial annual meetings of the American Ornithologists Union, the British Ornithologists Union, and the Canadian Society of Ornithologists: St. Johns Newfoundland, August 2000.

“Is the Everglades a demographic sink for wading birds?” by PCF, G. T. Bancroft and K. Portier. Presented by PCF at the Greater Everglades Ecosystem Restoration Science Conference, Naples Fl. 11 – 15 December 2000.

2001:

“Trapping White Ibises: evaluation of two techniques and factors that affect success.” J. A. Heath and P.C.F. Presented by JH at the annual meeting of the Waterbird Society, Niagara Falls, Ontario 7 – 11 November 2002.

2002:

“How closely do we estimate numbers of birds and nests?”. By B. Hylton, PCF, M. Ruane and J. Heath. Presented by BH at the joint annual meeting of the Wilson Ornithological Society and the Society of Field Ornithologists, April 2002, Naples Fl.

“The challenges of standardizing colonial waterbird survey protocols – What is working? What is not?” M. Steinkamp, PCF, K. Parsons, H. Carter and M.

Parker. Presented by MS at the Third International Partners in Flight Conference, 2002 March 20 – 24, Asilomar CA.

“Consequences Of Nesting Date On Nesting Success And Juvenile Survival In White Ibises”. By J.D. Semones and P.C. Frederick. Presented by JDS at the annual joint meeting of the Wilson Ornithological Society and the Society of Field Ornithologists, April 2002, Naples Fl.

meeting

“ Use of wading bird feather samples from museum specimens to discover the timing of mercury contamination in the Florida Everglades”. P.C.F., B. Hylton, J. Heath and M. G. Spalding. Presented by PCF at the annual meeting of the Waterbird Society, LaCrosse WI, November 2002.

“Effect of asynchronous nesting on accuracy of counts of nesting birds”. PCF, J. A. Heath and R.Bennetts. Presented by PCF at the North American Ornithological Conference, New Orleans La. September 2002.

“Consequences of nesting date on nesting success and juvenile survival in White Ibises”. J.D. Semones and P.C. Frederick. Presented by JDS at the North American Ornithological Conference, New Orleans La. September 2002.

“How closely do we estimate numbers of birds? A controlled measurement of interobserver error in counting birds”. R. A. Hylton, PCF, and J.A. Heath. Presented by RAH at the North American Ornithological Conference, New Orleans La. September 2002.

2003: “The rise and fall of mercury in Everglades biota: 1890 – 2003: A retrospective study of wading bird museum specimens”. P.C. Frederick . Presented by PCF at the Greater Everglades Ecosystem Restoration Conference, Palm Harbor Fl. 16 April 2003.

“Effects of mercury on wading birds in the Everglades”. P. C. Frederick. Presented by PCF at the 2003 Annual Meeting of the Waterbird Society, 24 – 27 September 2004, Cuiaba, Brasil.

“Survival and dispersal of juvenile Wood Storks across the southeastern United States as revealed by satellite telemetry”. B.A. Hylton and P.C. Frederick. Presented by B.H. at the 2003 Annual Meeting of the Waterbird Society, 24 – 27 September 2004, Cuiaba, Brasil.

“Nomadic movements of waterbirds in the non-arid southeastern United States: the importance of discontinuities and disturbances”. P.C. Frederick,

presented by PCF at the 2003 Annual Meeting of the Waterbird Society, 24 – 27 September 2004, Cuiaba, Brasil.

2004: “A century of mercury contamination in wading birds in the Everglades”.
Poster Presentation by PCF at USGS Mercury Workshop, Reston Va. August
13 – 18 2004.

“If we build it, will they come? Sources of uncertainty in predicting wading
bird responses to Everglades restoration”. P.C. Frederick. First National
Conference on Ecosystem Restoration. Orlando, Florida, December 2004.

“Panel presentation on Avian Ecology Workshop Results”. P.C. Frederick and
R. Bowman. Multi-species Management Workshop, Stuart Fl. July 2004.

2005: “Wetland restoration and birds: Lessons learned from Florida, San Francisco
Bay, and Chesapeake Bay”. M. Erwin and P.C. Frederick, presented by M.E.
at the annual meeting of the American Ornithologists Union, Santa Barbara
CA, August 2005.

“Are Everglades wading bird populations rebounding prior to Everglades
restoration?” Poster presentation by P.C. Frederick, Florida Cooperative
Research Unit coordinating committee meeting, Gainesville, Florida. April
2005.

“Are flight-line counts useful for estimating numbers of nesting wading birds?
A field test”. P.C. Frederick, R. Paul and A. Paul. Presented by PCF at the
2005 annual meeting of the Waterbird Society, Portland OR, January 2005.

“Vegetative and hydrological influences on ardeid colony site selection”. M.J.
Bokach and P.C. Frederick. Abstract submitted to Joint meeting of the Pacific
Seabird Group and the Waterbird Society, January 2005.

“Sublethal effects of chronic methylmercury dosing on the developmental and
reproductive ecology of White Ibises (*Eudocimus albus*). E.M. Adams and
P.C. Frederick. Poster presented by EMA at the annual meeting of the
Waterbird Society, November 2005, Jekyll Island, GA.

“Fledging dynamics of juvenile Wood Storks: Are agricultural settings
ecological traps?”. R. Borkhataria and P.C. Frederick. Presented by RRB at
the annual meeting of the Waterbird Society, November 2005, Jekyll Island,
GA.

“Population trends and colony turnover in statewide surveys of Wood Storks in Florida.” K.D. Meyer and P.C. Frederick. Presented by KDM at the annual meeting of the Waterbird Society, November 2005, Jekyll Island, GA.

“Estimation of nest failure rates and breeding population size in colonial wading birds.” K. Williams and P.C. Frederick. Presented as a poster by KW at the annual meeting of the Waterbird Society, November 2005, Jekyll Island, GA.

2006: “Why the bump? Evaluating causes of dramatic increases in nesting populations of long legged wading birds (Ciconiiformes) in south Florida”. Presented by PCF at the North American Ornithological Conference, Veracruz, Mexico. October 2006.

“Do Wood Stork populations from Mexico and the southeastern United States mix?” A. L. Bryan Jr., R. Borkhataria*, B. Hylton, P. C. Frederick and B. Brooks. Presented by RB at the North American Ornithological Conference, Veracruz, Mexico. October 2006.

“A preliminary model of Wood Stork population dynamics in the Southeastern United States”. R. Borkhataria* and P.C. Frederick. Presented by RB at the the North American Ornithological Conference, Veracruz, Mexico. October 2006.

“Estimation of breeding population size and nest failure rates in colonially breeding wading birds”. K. Williams* and P.C. Frederick. Presented by KW at the North American Ornithological Conference, Veracruz, Mexico. October 2006.

Sublethal effects of chronic methylmercury exposure on foraging behavior in juvenile White Ibises (*Eudocimus albus*). E. Adams* and P.C. Frederick. Presented by EA at the North American Ornithological Conference, Veracruz, Mexico. October 2006.

2007: “Estimation of breeding population size in asynchronous colonially breeding wading birds”. K.A. Williams and P.C. Frederick. Poster presented by KAW at the 2007 annual meeting of the Society for Conservation Biology, July 2007, Port Elizabeth, South Africa.

“Estimating breeding birds in large, asynchronous colonies of wading birds”. K.A. Williams and P.C. Frederick. Presented orally by KAW at the 2007 annual meeting of the Florida Chapter of The Wildlife Society, Tampa Florida.

“Sublethal effects of methylmercury on juvenile white ibis development: the conservation implications of non-linear exposure relationships”. E. A. Adams and P.C. Frederick. Presented as a poster by EAA at the 2007 annual meeting of the Society for Conservation Biology, July 2007, Port Elizabeth, South Africa.

“Conservation and Ecology of the world’s rarest heron: The White-bellied Heron in Bhutan”. R. Pradhan, P.C. Frederick and T. Norbu. Presented by PCF at the annual meeting of the Waterbird Society, Barcelona, Spain. October 2007.

“Validation of flight-line method for surveying Reddish Egret colonies in Texas.”. M.C. Green, W. Simper, Z. Holderby, P.C. Frederick and D. Newstead. Presented by MCG at the annual meeting of the Waterbird Society, Barcelona, Spain. October 2007.

2008: “Sublethal effects of chronic methylmercury exposure on reproduction in White Ibises (*Eudocimus albus*)”. N. Jayasena and P.C. Frederick. Poster presented by N. Jayasena at the 2008 Florida Cooperative Research Unit Coordinating meeting, April 2008 Gainesville FL.

“Effects of environmental methylmercury exposure on reproduction by White Ibises (*Eudocimus albus*)”. N. Jayasena and P.C. Frederick. Oral presentation at the 2008 Greater Everglades Ecosystem Restoration Conference, Naples FL. July 2008.

“Effects of environmental methylmercury exposure on reproduction in White Ibises (*Eudocimus albus*)”. N. Jayasena and P.C. Frederick. Oral presentation by N.J. at the annual meeting of The Wildlife Society, Miami FL. October 2008.

“Examining the role of wood storks in the Everglades: indicator species or population sink?” R. Borkhataria and P.C. Frederick. Presented as an oral presentation at the annual meeting of The Wildlife Society, Miami, FL. October 2008.

“Finding Wood Stork habitat and conserving the right features”. J. Tsai, P.C. Frederick and K.D. Meyer. Presented as a poster by JT at the annual meeting of The Wildlife Society, Miami, FL. October 2008.

“Water levels influence source-sink dynamics of endangered Wood Storks in South Florida, USA”. R. R. Borkhataria and P.C. Frederick. Presented by

RRB at the 2008 annual meeting of the Society for Conservation Biology, Chattanooga TN. 13 – 17 July 2008. **Finalist for Best Student Paper Award.**

“Unmanned Aircraft Systems for Wading Bird Surveys in the Everglades”. A. C. Watts, P. C. Frederick, W. S. Bowman, H. F. Percival, J. C. Simon, P. G. Ifju. Poster presentation by ACW at the Greater Everglades Ecosystem Restoration Planning, Policy and Science Meeting, 28 July-1 August 2008, Naples, FL.

Prospects of the use of unmanned aircraft systems for assessing the size of wading bird populations in the Everglades. P. C. Frederick, A. C. Watts, and M. Burgess. Oral presentation by PCF and MB at the South Florida Water Management District, West Palm Beach, FL, 5 September 2008.

2009: Effects of environmental methylmercury exposure on reproduction in White Ibises (*Eudocimus albus*). N. Jayasena and P.C. Frederick. Oral presentation by NJ at The Wildlife Disease Society annual meeting, SemiAhMoo, WA, August 2009.

“Use of an Unmanned Aircraft System for Monitoring Nesting Responses of Wading Birds (Ciconiiformes) to Restoration of the Florida Everglades, USA. P.C. Frederick, J. Simon, J. Perry, A. Watts, S. Smith, H.F. Percival, P. Ifju and M. Burgess. Oral presentation by PCF at the 2nd National Environmental Restoration Conference, Los Angeles, CA. July 2009.

“A Small Unmanned Aircraft System for Ecological Research”. M. A. Burgess, H. F. Percival, A.C. Watts, P. G. Ifju, K. Lee, J. A. Childs, B. Evers, T. J. Rambo, S. E. Smith, A. Mohamed, B.A. Dewitt, J. H. Perry, Z. Szantoi, P.C. Frederick, J.C. Simon, L.E. Taylor, and J.S. Lane. Presented by MAB at the 2nd National Environmental Restoration Conference, Los Angeles, CA. July 2009.

“Consequences of chronic exposure of White Ibises to low concentrations of dietary methylmercury”. P.C. Frederick and N.U.A. Jayasena. Presented by PCF as an oral presentation at the annual meeting of the Waterbird Society, Cape May NJ, November 2009.

“Use of a Small Unmanned Aircraft System for Ecological Research and Habitat Assessment” M.A. Burgess, H. F. Percival, A.C. Watts, P.C. Frederick, John C. Simon, Peter G. Ifju, Kyuho Lee, Scot E. Smith, Ahmed Mohamed, Bon A. Dewitt, John H. Perry, Zoltan Szantoi, Joshua A. Childs, Brandon Evers, Thomas J. Rambo, Larry E. Taylor, and Jon S. Lane. Presented by MAB at the annual meeting of the Association of Unmanned Vehicle Systems International, August 10-13, 2009, Washington DC.

“Survival of Wood Stork Colonies in Relation to Landscape Habitat Characteristics in the Southeastern United States”. Ross Tsai and Peter Frederick. Oral presentation by R. T. at the annual meeting of the Waterbird Society, Cape May NJ, November 2009.

Using range-wide suitability models to predict habitat use by nesting Wood Storks (*Mycteria americana*) in the Southeastern U.S.. R. Borhataria, P.C. Frederick and A. L. Bryan. Oral presentation by RB at the annual meeting of the Waterbird Society, Cape May NJ, November 2009.

Mixing by Wood Storks (*Mycteria americana*) from the Mexican and Southeastern United States populations. R. Borkhataria, A.L. Bryan, P.C. Frederick and B. Brooks. Oral Presentation by RB at the annual meeting of the Waterbird Society, Cape May NJ, November 2009.

2010: Burtner, B. and P.C. Frederick. 2010. The Interaction Between Nesting Wading Birds and Alligators in the Everglades. Presented as a poster by B. Burtner at the Greater Everglades Ecosystem Conference, Naples Fl. July 2010.

Venne, L. and P.C. Frederick. 2010. Response of Wading Birds to Fire in the Central Everglades. Presented as a poster by LV at the Greater Everglades Ecosystem Conference, Naples Fl. July 2010.

Seavey, J. , P.C. Frederick and B. Pine. “Oyster research in Florida’s Big Bend”. Talk to cooperators in climate change research at Lower Suwannee National Wildlife Refuge, July 2010.

2011: Fidorra, J., P.C. Frederick and K. Meyer. Local and long range movements of two populations of great egrets in the southeastern US.. Presented orally by JF at the annual meeting of the Waterbird Society, Annapolis MD. November 2011.

Burtner, B. and P.C. Frederick. Symbiosis between birds and alligators? Testing the nest protector hypothesis. Poster presented by BB at the annual meeting of the Waterbird Society, November 2011. Annapolis MD.

Borkhataria, R., P.C. Frederick and A. L. Bryan. Variability in dispersal movements of flighted juvenile Wood Storks (*Mycteria americana*). Presented orally by RB at the annual meeting of the Waterbird Society, November 2011. Annapolis MD.

Burtner, B.F.; Frederick, P C.; Mazzotti, F.J. “Do wading birds nest near alligators by choice? Testing the ‘nest protector’ hypothesis”. Presented as a

poster by BB at the annual meeting of the American Ornithologists Union, July 2011. Jacksonville, FL.

Fidorra, J.C.; Frederick, P.C.; “Great egrets select agricultural impoundments over freshwater marshes as foraging habitat in southwest Louisiana”. Presented as a poster by JF at the annual meeting of the American Ornithologists Union, July 2011. Jacksonville, FL.

Tsai, J., Frederick, P.C., and K.D. Meyer. “Persistence of wood stork colonies in relation to habitat attributes in the southeastern United States”. Presented by JT at the annual meeting of the American Ornithologists Union, July 2011. Jacksonville, FL.

2012: Tsai, J., P.C. Frederick, P.C., K.D. Meyer and B. Reichert. “Colony Dynamics of Wood Storks in Relation to Habitat Characteristics in the Southeastern USA”. Presented by JTsai at the annual meeting of the Wood Stork Working Group, Jacksonville, Florida January 18 2012.

Frederick, P.C., J. Brush and A. Schwarzer. “Habitat selection by wintering American Oystercatchers near Cedar Key, Florida”. Presented at the annual meeting of the American Oystercatcher Working Group, Cedar Key, Florida November 2012.

Frederick, P.C., N. U.A. Jayasena, A. Cambell, and R. R. Borkhataria. “Does mercury exposure affect avian survival?”. Presented by PCF at the quadriennial meeting of the North American Ornithological Conference, Vancouver BC, August 2012.

Evers, D., P.G.R. Jodice, **P.C. Frederick**. 2011. Assessing injury to colonial waterbirds from the Deepwater Horizon oil spill. Oil Spill Symposium, Waterbird Society Annual Meeting, Grand Island, Nebraska

2013: Borkhataria, R.R., **P.C. Frederick**, C.J. Saunders, J.Beerens, J.A. Collazo, and A. L. Bryan. 2013. Modeling the influence of Everglades hydrology on population dynamics of endangered wood storks in the Southeastern U.S.. Oral presentation by RRB at the International Congress for Conservation Biology meetings, Baltimore MD. July 21 – 25 2013.

L. A. Nell and **P.C. Frederick** 2013. Exploring a mutualism between nesting wading birds (Ciconiiformes) and American alligators (*Alligator mississippiensis*). Presented as a poster by LAN at the annual cooperator’s meeting of the Florida Cooperative Research Unit, Gainesville FL.

L.A. Nell, **P.C. Frederick**, K.A. Sieving and K.A. Vliet. 2013. Exploring a mutualism between nesting wading birds and American alligators. Presented as a poster by LAN at The Herpetology Conference 6 April, 2013.

2014: Beerens, J.A., E.G. Noonburg, and D.E. Gawlik and **P.C. Frederick**. Modeling spatio-temporal responses of wading bird indicator species across resource gradients for wetland restoration. Presented as an oral presentation at the Conference on Ecological and Ecosystem Restoration, New Orleans La. 31 July 2014.

Birch, A. ,T. Ankersen, V. Babbar, A. Baldwin, L. Blair, B. Convery, N. deGrutollo, **P. Frederick**, A. Graves, P. Haydt, L. Layman, J. Ott, E. Rasnake, H. Stafford. Facilitating oyster habitat restoration by developing a Florida General Permit. Presented by A. Birch as an oral presentation at the Charlotte Harbor Watershed Summit.

Vitale, N. and **P.C. Frederick**. There Goes the Neighborhood: Are Black Crowned Night Herons displacing Egretta Herons from the Everglades of Florida, USA? Presented orally by V. N. at the Waterbird Society annual meeting, La Paz, Mexico, November 2014.

Nell, L. and **P.C. Frederick**. Exploring benefits to Everglades alligators from wading bird nesting. Presented orally by LN at the Waterbird Society annual meeting, La Paz, Mexico, November 2014.

Kaplan, D., Olabarietta, M., **Frederick, P.**, Valle-Levinson, A. and J. Seavey. Estuarine freshwater detention by oyster reefs: quantifying a keystone ecosystem service. Poster presentation by DK at the American Geophysical Union Annual Meeting, San Francisco CA. December 2014.

Frederick, P.C., B. Pine, Bouchillon R., Sturmer L. and J. Seavey. Restoring oyster reefs in Florida's Big Bend in the face of reduced freshwater flows: the role of durable substrate. Presented as a poster by R.B. at the 2014 meeting of the International Conference on Shellfish Restoration, November, Charleston S.C.

Woodrey, M., R. Wilson, **P. Frederick** and J. Tirpak. Moving Toward A Region-wide Avian Monitoring Framework for the Northern Gulf of Mexico. Presented by M. Woodrey as a poster at the Bays and Bayous Symposium (National Estuaries Program), Mobile AL. 2014.

2015: **Frederick, P.C.**, B. Pine and L. Sturmer. Between the river and the deep blue gulf: the past and future of oysters in Florida's Big Bend. Presented orally by

PCF at the Big Bend Estuary and Watershed Restoration Planning Meeting
May 21 2015, Lake City Fl.

Borkhataria, R, **P.C. Frederick**, A. L. Bryan, J. Beerens, J. Collazo and C. Saunders. Everglades hydrology influences population dynamics of wood storks in the southeastern U.S. Presented orally by RB at the annual meeting of the Ecological Society of America, August 9 – 14, Baltimore MD.

Frederick, P.C. Potential effects of nest predation, contamination, and distant wetland attractors on reproductive responses of wading birds to CERP. Presented orally by PCF at the Greater Everglades Ecosystem Conference, April 21 – 23 Coral Springs FL.

Frederick, P.C. Wading bird monitoring for CERP. Presented orally by PCF at the Everglades RESTORE Science Meeting, 23 January 2015, West Palm Beach FL.

Frederick, P.C., L.A. Nell, B. Burtner and J. Tsai. Bird-crocodilian interactions as a keystone interaction supporting nesting wading birds in tropical and subtropical wetlands. Presented orally by PCF at the annual meeting of The Waterbird Society, 11 – 15 August, Bar Harbor, ME.

Frederick, P.C., R. Tsai, B. Burtner, L. Nell, N. Burrell and I. Rodriguez. Mapping uncertainties in Everglades restoration: Will water bring the birds back? Presented orally by PCF at the annual Florida Cooperative Research Unit Cooperators meeting, 6 May, Gainesville FL.

Burrell, N.S., R.J. Fletcher, and **P.C. Frederick**. Unraveling the dynamics of wood stork movement. Presented poster by NSB at Coop Coordinating Committee Meeting, 6 May, Gainesville, FL.

Kaplan, D., M. Olabarietta, A. Valle-Levinson and **P.C. Frederick**. Oyster Reefs Support Coastal Resilience by Altering Nearshore Salinity: An Observational and Modeling Study to Quantify a "Keystone" Ecosystem Service. Presented by DK at the 2016 meeting of the American Geophysical Union.

Beerens, J., **P.C. Frederick**, E.G. Noonburg and D.E. Gawlik. Determining habitat quality for species that demonstrate dynamic habitat selection. Presented by J.B. at the 2016 annual meeting of the Ecological Society of America, Ft. Lauderdale, FL.

2016: OUTREACH and EDUCATION: **Frederick, P.C.**, V. Doig and C. Sheehy III. Nest abandonment on Seahorse Key: What do we know? Panel presentation and discussion at Cedar Key Library, April 2016.

OUTREACH AND EDUCATION: **Frederick, P.C.** Restoration of oyster reefs and ecosystem services in the Big Bend of Florida. Presented to the Chiefland Rotary Club, Chiefland, FL. November 2016.

OUTREACH AND EDUCATION: **Frederick, P.C.** Restoration of oyster reefs and ecosystem services in the Big Bend of Florida. Presented to the Levy County Board of County Commissioners, November 2016.

Rodriquez, I.A., N. Vitale, S. Orzechowski, and **P.C. Frederick**. Effects of mercury exposure on nest success in Great Egrets (*Ardea alba*): the role of parental care. Presented by I.A.R. at the Greater Everglades Ecosystem Restoration Conference, Palm Bay FL. June 2016.

Frederick, P.C., N. Vitale, B. Pine, J. Seavey and L. Sturmer. Reversing a rapid decline in oyster reefs: effects of durable substrate on oyster populations, elevations and aquatic bird community composition in the Big Bend of Florida. Presented by PCF at the annual meeting of the International Shellfish Restoration Meeting, November 2016, Charleston S.C.

Frederick, P.C., N. Vitale, B. Pine, J. Seavey and L. Sturmer. Effects of durable substrate on establishment of oyster populations, reef elevations and aquatic bird use in the Big Bend of Florida. Presented by PCF at the National Conference on Ecosystem Restoration, Coral Springs, Florida.

Tsai, J-S, B. Reichert, **P.C. Frederick** and K. Meyer. Breeding site longevity and site characteristics have intrinsic value for predicting persistence of colonies of a threatened bird. Presented by PCF at the annual meeting of the Waterbird Society, October 2016 New Bern, NC.

Rodriquez, I.A. and **P.C. Frederick**. Hg in the Everglades: investigating the effects of mercury contamination in Great Egret reproduction. Presented as a poster by IAR at the annual meeting of the Florida Fish and Wildlife Unit Cooperators, Gainesville FL. April 2016.

Orzechowski, S.C., **P.C. Frederick**, M. Hunter and C. Romagosa. Quantifying the impacts of Burmese pythons on wading bird reproduction. Presented as a poster by SCO at the annual meeting of the Waterbird Society, October 2016, New Bern N.C. *Note winner of the best poster award.*

Robert J. Cooper¹, Evan Adams², Peter Frederick³, Jeff Gleason⁴, Jim Lyons⁵, and John Tirpak⁶ Randy Wilson⁷, and Mark S. Woodrey^{8,9} Application of structured decision making in development of a gulf-wide avian monitoring network. Presented by RJC at the North American Ornithological Conference, Washington, DC.

2017.

Martin, C.H., M.S. Allen, S.C. Barry, D.C. Chagaris, V. Doig, **P.C. Frederick**, S. McAskill, W. E. Pine, C. Purtlebaugh, and L.K. Reynolds. Evidence and effects of climate change in Florida's Nature Coast. Presented as a poster by CM at the annual meeting of the Society for Freshwater Science, Raleigh NC. March 2017.

Burrell, N.S., R.J. Fletcher, **P.C. Frederick** and P.R. Waylen. Do Wood Storks care about the weather? Presented as a poster by NB at the annual Florida Cooperative Research Unit Cooperators Meeting, Gainesville FL., April 2017.

Kim, K. and **P.C. Frederick**. How does structural complexity generated by oysters affect species interactions and local community composition? Presented as a poster by KK at the annual Florida Cooperative Research Unit Cooperators Meeting, Gainesville FL., April 2017.

Frederick, P.C., I.A. Rodriguez-Jorquera, N. Vitale and S. Orzechowski. Effects of mercury exposure on nest success in Great Egrets (*Ardea alba*). The role of parental care. Presented orally by PCF at the annual meeting of The Waterbird Society, Reykjavik Iceland August 2017.

Orzechowski, S.C.M., **P.C. Frederick** and M. Hunter. Are Burmese pythons attracted to tree islands with wading bird colonies? Using eDNA to determine occupancy rates of pythons at wading bird breeding sites in the Everglades Presented as a poster by SCO at the annual meeting of The Waterbird Society, Reykjavik Iceland August 2017.

2018. Wilson, R.R., J. S. Gleason, A. M. V. Fournier, M. S. Woodrey, J.E. Lyons, R. J. Cooper, E.A. Adams, **P.C. Frederick**, and J.M. Tirpak. Using Structured Decision Making in development of a Gulf-wide AVIAN monitoring network (GOMAMN). Presented orally by RRW at the annual Gulf of Mexico Oil Spill and Ecosystem Science Conference, New Orleans, February 2018.

Frederick, P.C. and S. Orzechowski. Effects of pythons on nesting wading birds. Presented orally by PCF at the annual meeting of the Wood Stork Working Group, Jacksonville, FL.

- Orzechowski, S.C., C. Romagosa and **P.C. Frederick**. Assessing the impacts of Burmese Pythons on wading bird nesting colonies. Presented orally by SCO at the annual meeting of the American Society of Ornithology, April 2018. Tucson, AZ.
- Fournier, A. J. Lyons, E. Adams, J. Brush, R. Cooper, S. DeMaso, M. Driscoll, **P.C. Frederick**, J. Gleason, R. Wilson, J. Tirpack and M. Woodrey. 2018. Guiding coordinated bird monitoring decisions through structured decision making. Presented orally by AF at the annual meeting of the National Conference on Ecological Restoration. April 2018.
- Frederick, P.C.**. 2018. Introducing resilience to estuaries through restoration of oyster habitat in Florida's Big Bend. Presented by PCF at Sustainable Water Resources hosted by the UF Water Institute Gainesville FL. February 2018.
- Martin, C.W., M.S. Allen, S. C. Barry, D.C. Chagaris, V. Doig, **P.C. Frederick**, S. McAskill, W.E. Pine, C. Purtlebaugh and L.K. Reynolds. 2017. Evidence and effects of climate change in Florida's Nature Coast. Presented as a poster by CWM at Sustainable Water Resources hosted by the UF Water Institute Gainesville FL. February 2018.
- 2019: **Frederick, P.C.** M. Cook, L. Oberhofer, D. Gawlik, L. Garner and J. Lorenz 2019. The largest nesting year for wading birds since 1934, and its implication for restoration. Greater Evergyaldes Ecosystem Conference, Coral Springs Fl, April 2019.
- Gabel, W., J. Zabala and **P.C. Frederick**. Trophic Transfer of Energy via Nestling Wading Birds to a Scavenger Community in an Oligotrophic Wetland. Presented by WG at the annual meeting of the American Ornithological Society, Fairbanks, AK. June 2019.
- Fournier, AMV, J.E. Lyons, R. Wilson, J. Gleason, E. Adams, J. Brush, R. Cooper, S. DeMaso, M. Driscoll, **P. Frederick**, P. Jodice, D. Reeves, M. Seymour, S. Sharuga, J. Tirpak, W. Vermillion, T. J. Zenzal, and M. Woodrey. A strategic plan for monitoring birds in the Gulf of Mexico: translating stakeholder values into priorities. Presented by AF at the annual meeting of the American Ornithological Society, Fairbanks, AK. June 2019.
- Zabala, J., J. Trexler and **P.C. Frederick**. 2019. Sub-lethal effects of mercury in natural populations are not constant but food availability dependent. Evidence from multi-annual data on great egrets in the Everglades. Presented by JZ at the 14th International Conference on Mercury as a Global Pollutant, August 2019, Krakow, Poland.

Beck, S., **P.C. Frederick**, B. Pine, and L. Sturmer. 2019. Update on the Lonce Cabbage Reef Restoration Project in Suwannee Sound. Presented by SB at the Oyster Integrated Mapping and Monitoring Program Workshop, October 2019, St. Petersburg, FL.

Yurek, S. MJ. Eaton, R. Lavaud, D. DeAngelis, R. W. Laney, W.E. Pine III, J. Martin, **P.C. Frederick**, M. La Peyre, H. Wang, M.R. Lowe, E.V. Camp and R. Mordecai. 2019. Modeling oyster reefs as self-organizing systems using an agent-based model. Presented by S.Y. at the Oyster Integrated Mapping and Monitoring Program Workshop, October 2019, St. Petersburg, FL.

B. Pine, **P.C. Frederick**, J.F. Moore, S. Beck, M. Moreno, M.J. Dodrill and L. Sturmer. 2019. An assessment of trends in intertidal oyster populations in the Big Bend region of Florida. Presented by BP at the Oyster Integrated Mapping and Monitoring Program Workshop, October 2019, St. Petersburg, FL.

2020: Espriella, M.C., V. Lecours, **P.C. Frederick**, E. Camp, and B. Wilkinson. Automating the delineation of intertidal habitats from unoccupied aircraft imagery. Oral presentation by MCE at the University of Florida Department of Fisheries graduate student symposium, February 2020, Gainesville FL.

Kim, K. and P.C. Frederick. Do species preferences for 3D interstitial space characteristics drive community composition? An example from oyster clusters. Presented online by KK at the 20th annual meeting of the Ecological Society of America. **This presentation received the Best Student Talk award from the Aquatic ecology section of the Ecological Society of America.**

Invited Paper Presentations:

1981: "Mating Patterns of White Ibis". Presented at the Belle Baruch Institute Conference on Coastal and Estuarine Waders, Georgetown, South Carolina.

1983: "Evolutionary causes and consequences of extrapair copulation behavior". Belle Baruch Marine Lab, Georgetown, South Carolina.

1984: "Male responses to cuckoldry in White Ibises". North Carolina State University, Raleigh, North Carolina.

"Ecological correlates of cuckoldry in colonially-breeding birds". Duke University, Durham, North Carolina.

"Why monogamy?". Winthrop College, Rock Hill South Carolina.

1985: "What do starvation and sex have in common?". Manomet Bird Observatory, Manomet, Massachusetts.

"Summary of five years of ecological research on Pumpkinseed Island". Belle Baruch Marine Lab, Georgetown, South Carolina.

1986: "Effects of the modified water delivery plan on wading bird reproduction: preliminary results". Southern Everglades Technical Advisory Council, Miami, Florida.

"Monogamy in colonial waterbirds". National Audubon Society Research Center, Tavernier Florida.

"Wading bird nesting success in response to varying hydrological conditions". Everglades National Park Research Center, Homestead Florida.

1987: "Extrapair copulations and monogamy: are they evolutionarily consistent?". Florida International University, Miami, Florida.

"Wading bird responses to the modified water delivery plan, 1986 and 1987". Everglades National Park Research Center, Homestead, Florida.

"The role of freshwater wetlands in the breeding ecology of White Ibises in coastal South Carolina. K. L. Bildstein, W. Post, J. Johnston, and **P.C. Frederick**, presented by KLB at the symposium, "Freshwater Wetlands and Wildlife" sponsored by Savannah River Ecology Lab, Charleston, S.C.

1989: "Factors affecting reproductive success by wading birds (ciconiiformes) in the Everglades ecosystem. Presented by PCF With M. G. Spalding, presented at the Symposium entitled "Spatial and Temporal Variation in the Everglades Ecosystem", Key Largo, Florida.

1990: "Responses of Great Egrets and Everglades fishes to cold snaps: a behavioral link between predator and prey". Everglades National Park Research Center, Homestead, Florida.

"Polluted waters and the decline of wading birds in Florida: the parasite connection". St. Johns Water Management District, Palatka, Florida.

1991: "Environmental assessment and planning in the Okavango Delta of Botswana". Conservation International, Washington, D.C.

"Nutrient transport by wading birds in the Everglades of Florida, U.S.A. With G. V. N. Powell III, presented at symposium entitled "Aquatic Birds in the Trophic Chain of Lakes" sponsored by the Canadian Wildlife Service, Alma, New Brunswick Canada.

1992: "Environmental correlates of wading bird reproductive success". Presented at symposium entitled "NonGame Wildlife in the Southeastern Coastal Zone", sponsored by U.S. Fish and Wildlife Service, Gainesville FL.

1993: "Conservation of wading birds (Ciconiiformes) in a southeastern habitat mosaic". Florida International University, Miami Florida.

"Mercury contamination in Great Egrets (Casmerodius albus) in the Everglades. M. S. Sepulveda, M. G. Spalding and P. C. Frederick, presented by PCF at the Fourth Florida Mercury Conference, sponsored by the Governor's Task Force on Mercury in the Environment, West Palm Beach, Florida.

1995: "Conservation of moving targets: White Ibis population shifts in the 20th century". Archbold Biological Station, Venus Florida, March 1995).

"White Ibis population movements in the southeastern U.S.: guidelines for the management of a nomadic species". Symposium on a reserve network for ciconiiform birds at the Colonial Waterbird Society annual meeting, Victoria British Columbia, November 1995.

"The Everglades: what can wading birds tell us about ecosystem health?" Spalding, M.G. and P.C. Frederick, presented by MGS at Symposium on Health in Wetland Ecosystems. Joint Conference, American Association of Zoo Veterinarians, Wildlife Disease Association, American Association of Wildlife Veterinarians, East Lansing, Michigan, August 1995.

1996: "Flames, aliens and heavy metal: prospects for the recovery of Everglades wading bird populations". Department of Zoology, University of Florida, January 1996.

"Effects of methylmercury on Great Egret reproductive success and

survival". Bionetics, Inc., Cape Canaveral National Seashore and Merritt Island National Wildlife Refuge. September 1996.

"Effects of the 1992 - 1995 high water period on nesting effort and nesting success of wading birds (Ciconiiformes) in the central Everglades. At panel-mediated Workshop on Effects of High Water in the Everglades, Florida International University, 22 - 23 August 1996.

1997: "Effects of methylmercury on breeding wading birds in the Everglades". Center for Wetlands, Department of Environmental Engineering, University of Florida. February 1997.

"Management of wetland birds". Invited presentation at short course for wetland and shorebird management for U.S. Fish and Wildlife Service refuge managers. Merritt Island NWR, March 1997.

"Wetland wildlife values". Presentation to landowners and forest managers convened by School of Forest Resources and Conservation, April 1997, Gainesville Fl.

1998: "Wading birds in the 21st Century". Presentation to The Wading Bird Festival, May 1998, Moss Park, Florida.

"Effects of environmental mercury exposure on reproduction, health, and survival of wading birds in the Florida Everglades". M. G. Spalding and P. C. Frederick. Presented by MGS at South Florida Mercury Science Program Annual Workshop, West Palm Beach, May 18 – 20 1998.

2000: "Effects of mercury on wading birds in the Everglades ecosystem". Presented by PCF at an invited workshop on Risks Associated with Mercury and other Stressors to Piscivorous Bird Populations, EPA NHEERL, Wildlife risk assessment work group meeting, Atlantic Ecology Division 12-13 September 2000.

"Nonbreeding ibises in the Everglades". Presented by PCF at invited symposium on wading bird monitoring, Archbold Biological Station, 10 November 2000.

"Waterbird conservation and management". Presented by PCF at the 4th Workshop on Salt Marsh Management & Research, Vero Beach, Fl. October 24-27, 2000.

2001: "Uncertainties in the restoration of wading bird populations to the Everglades". Presented by PCF to the National Academy of Sciences

CROGEE panel on Everglades restoration. Everglades National Park, January 2001.

“Wading bird monitoring and research in the Everglades”. Presented by PCF at a workshop on comparisons between the Sian K’aan Biosphere Reserve and the Everglades. Sian K’aan Biosphere Reserve, Quintana Roo, Mexico, March 2001.

2002: “Effects of environmental methylmercury on wading birds”. Presented by PCF to the University of Florida Center for Wetlands weekly seminar series, January 2002.

“Effects of mercury on the south Florida ecosystem”. Presented by P. Frederick at the St. Johns River Water Management District, Palatka Fl., 5 December 2002.

2003: “Human attempts to manage non-equilibrium dynamics of wading birds in the Everglades”. Presented by PCF at University of Michigan, College of Natural Resources. 12 March 2003.

“Effects of mercury on wading birds in the Everglades”. Presented by PCF at the 2003 Annual Meeting of the Waterbird Society, 24 – 27 September 2004, Cuiaba, Brasil.

“Ecosystem function in the Everglades”. Presented by PCF to a blue-ribbon panel on management of endangered avian species in the Everglades. Key Largo Fl., March 16 2003.

2004: “A century of mercury contamination in wading birds in the Everglades”. P.C. Frederick and B. Hylton. Presented by PCF at the 2004 Coordinating meeting of the Florida Cooperative Research Unit, Gainesville Fl. April 2004.

2005: “Tracking ecological surprise through wading birds in the Everglades”. P.C. Frederick, Department of Forest Resources and Conservation, Athens GA. July 2005.

“Effects of severe droughts on reproduction and movements of wading birds in the southeastern United States”. P.C. Frederick and J.C. Ogden. Presented by PCF at the V Simposio Internacional Humedales, 6 – 9 October 2005, Cienaga de Zapata, Cuba. Presentation in Spanish.

“Mercury in wildlife – the Everglades and Southeastern U.S. wetlands”. Presented by PCF as part of a group presentation on Effects of Mercury on

Wildlife in the U.S.. **Scientific Briefing to U.S. Congress**, Capitol Building, Washington DC, March 2005. Sponsored by Ecological Society of America.

“The conservation of long-legged wading birds in the southeastern United States”. P.C. Frederick. Annual meeting of the Georgia Ornithological Society, April 2005, Columbus, GA.

“Wetland cycles and avian nomadism – scales for conservation?” P.C. Frederick, Center for Wetlands, University of Florida, Gainesville FL, March 2005.

“Population trends and colony turnover in statewide surveys of Wood Storks in Florida.” K.D. Meyer and P.C. Frederick. Presented by KDM at the annual meeting of the Waterbird Society, November 2005, Jekyll Island, GA.

“Wading bird nesting dynamics – a new era?” P.C. Frederick, August 2005. Presented to the Assessment Team of RECOVER, Comprehensive Everglades Restoration Plan. West Palm Beach, Florida.

“Fledging dynamics of juvenile Wood Storks: Are agricultural settings ecological traps?”. R. Borkhataria* and P.C. Frederick. Presented by RRB at the annual meeting of the Waterbird Society, November 2005, Jekyll Island, GA.

“Wading bird nesting in the Everglades ecosystem – new evidence and paradigms”. P.C. Frederick, U.S. Fish and Wildlife Service, Vero Beach Florida. October 2005.

“The unexpected dynamics of mercury contamination in the Everglades” P.C. Frederick, presented to U.S. Environmental Protection Agency, Dallas TX.

“The unexpected dynamics of mercury contamination in the Everglades” P.C. Frederick. 9 December 2005, The Wetlands Club, University of Florida, Gainesville, Florida.

“A preliminary model of Wood Stork population dynamics in the southeastern U.S.”. R. Borkhataria and P.C. Frederick. Presented by RRB at the annual meeting of the Waterbird Society, November 2005, Jekyll Island, GA. Honorable Mention, Best Student Presentation,

2006: “The importance of early wet season water levels to dispersing juvenile wood storks in the Florida Everglades.” Borkhataria, R.R., R.A. Hylton, and P.C. Frederick. Florida Ornithological Society, Titusville, FL. 28 October 2006.

“Impacts of mercury on wild birds breeding in the Florida Everglades”. P.C. Frederick and M.G. Spalding. Presented by PCF at the Eighth International Conference on Mercury as a Global Pollutant, Madison WI. August 4 – 10 2006.

“Sublethal effects of chronic methylmercury exposure on foraging behaviour and endocrine development in juvenile White Ibises (*Eudocimus albus*)”. E. Adams and P.C. Frederick. Presented by EA at the Greater Everglades Ecosystem Research Conference, Orlando Fl. June 2006. **Invited Panel discussion and presentation.**

2007: “Wetland restoration and birds: Case studies from San Francisco Bay, Chesapeake Bay, and the Florida Everglades”. R. M. Erwin and P.C. Frederick. Presented by RME at the 2007 annual meeting of the Ecological Society of America, August 2007, San Jose, California.

“Demography, habitat selection and movement patterns of Wood Storks in the southeastern United States. P.C. Frederick and R. Borkhataria. Presented by PCF at the 2007 Avian Ecology Workshop, an invited panel review of the current science of endangered birds in south Florida. August, Florida International University, Miami Florida.

“Conservation of the White-bellied Heron in Bhutan”. P.C. Frederick, R. Pradhan and T. Norbu. Presented by PCF to government and NGO officials at the Royal Society for the Protection of Nature, Bhutan. Thimpu, Bhutan. 23 November 2007.

2008: “Effects of environmentally relevant methylmercury on White Ibises: Unexpected effects at unexpected exposure levels”. P.C. Frederick and N. Jayasena. Invited presentation to the Florida Department of Environmental Protection, Tallahassee FL. July 2008.

“Balancing water quality and quantity for restoration of long legged wading bird populations in the Everglades of Florida”. **P. C. Frederick**, “Pathways to Success: Integrating Human Dimensions into Fish and Wildlife Management”. Estes Park, Colorado. August 2008.

2009: “White Ibis: Wildebeeste of the Southeast”. Presentation by **PCF** to Friends of the Lower Suwanee National Wildlife Refuge, Suwanee, FL. April 2009.

“Disaster or cornucopia? How do ibises thrive with hurricanes, floods and droughts in the southeastern U.S.?” Presented by **PCF** as part of the seminar

series: “Contemporary Studies of the Behavior of Animals”, Institute of Learning in Retirement, Oak Hammock. Gainesville Fl. March 2009.

2010: **Frederick, P.C.** 2010. “Wading bird nesting as a tool for understanding Everglades ecology: a keystone integrator and generator of trophic hypotheses”. Presented as a paper at the Greater Everglades Ecosystem Conference, Naples Fl. July 2010.

2011: **Frederick P.C.** “Fires, floods and heavy metal: restoration of wading birds in the Everglades”. Presented at the Florida State University Coastal and Marine Laboratory Conservation Lecture Series. February 10, 2011.

Frederick, P.C. “The unexpected dynamics of mercury contamination and wading birds in the Everglades: a tale of three scientific surprises”. Mary Murphy Endowed Lecture in Biology at Clarke University. Dubuque, IA March 2011.

Frederick, P.C. and J. Tsai. 2011. “Wood Stork habitat analysis and conservation”. Webinar for the National Fish and Wildlife Foundation “In-the-Field” webinar series. February 2011.

2012: **Frederick, P.C.** Effects of Novel Water Regimes, Invasive Predators, and Contaminants on Wading Birds in the Everglades of Florida. Presented by PCF at the quadriennial meeting of INTECOL, Orlando Florida July 2012.

Venne, L.S., **P.C. Frederick**, T.Z. Osborne and J.C. Trexler. “Effects of Fire on Wading Bird Foraging Habitat and Resources” Presented by LV at the quadriennial meeting of INTECOL, Orlando Florida July 2012.

2013: **Frederick, P.C.**, J. Seavey, B. Pine and L. Sturmer. “Between the river & the deep blue gulf: The past & future of oysters and oystercatchers in Florida’s Big Bend”. Presented by PCF at the annual meeting of the Friends of the Lower Suwannee refuge, March 2013.

Frederick, P.C. “Fire, Floods and Heavy Metal – Restoration of Wading Birds in the Everglades” Presented by PCF to the Vero Beach Chapter of Florida Audubon, April 2013.

Frederick, P.C. “The Unexpected Dynamics Of Mercury Contamination In The Everglades: A Tale Of Three Scientific Surprises”. Plenary invited lecture given by PCF at the annual meeting of the Association of Field Ornithologists, May 2013.

Frederick, P.C. 2013. Detecting ecological surprise – a century of using avian populations to monitor the Everglades. Florida Waterfowl Summit, Ocala Fl. 9 August 2013. Oral.

Frederick, P.C. and N.U.A. Jayasena. 2013. Effects of environmental methylmercury exposure on endocrine expression and mate choice in White Ibises *Eudocimus albus*. Invited paper at the annual meeting of the Waterbird Society, Wilhelmshaven Germany. 24 – 30 September 2013. Oral

2014:

Frederick, P.C. Wading bird monitoring for CERP. Oral Presentation to U.S. Army Corps of Engineers, Jacksonville, FL. June 2014.

Frederick, P.C. Predator-Prey Responses to Hydrology and Future Restoration Efforts. Oral presentation in webinar “System Status Report Public Information Meeting”, sponsored by U.S. Army Corps of Engineers. April 2014, Gainesville FL.

2015: **Frederick, P.C.** Aquisition and Restoration Council – what is it and how does it work? Presented orally by PCF at the annual meeting of Audubon of Florida, 24 September, Orlando FL.

Frederick, P.C. Feathers, flames, fangs and heavy metal – tales from the world of Florida’s wading birds. Presented orally by PCF to the Santa Fe Audubon Society, 8 September, Melrose FL.

Frederick, P.C. Restoration of oyster reefs and their ecological services in the Big Bend of Florida. Presented orally by PCF at the University of Florida Center for Wetlands seminar series, 21 October 2015.

Frederick, P.C. Ecological effects of mercury on populations of breeding wading birds in the Everglades. Presented orally by PCF to the University of Florida Wetlands Club and University of Florida Air and Water Quality club, Dec. 1 Gainesville FL.

Frederick, P.C. and N.U.A. Jayasena. Effects of environmental methylmercury exposure on endocrine expression, mate choice and reproduction in White Ibises (*Eudocimus albus*). Presented orally by PCF in the seminar series of the Department of Physiological Sciences, 27 October, University of Florida, Gainesville.

Frederick, P.C. and Ignacio Rodriquez. Ecological effects of mercury on populations of breeding wading birds in the Everglades. Presented orally by IRJ at the 2015 Everglades Science Symposium, 7 December, Homestead, Florida.

2016:

Frederick, P.C., L. Nell, B.A. Burtner and JS Tsai. Nest protectors and food provisioners – a two-way ecological facilitation. Presented by PCF at the 2016 meeting of the Ecological Society of America, Ft. Lauderdale, FL.

Rodriguez, I.A., N.E. Vitale, S. Orzechowski and **P.C. Frederick**. From egg to fledge: Partitioning effects of mercury exposure on reproduction in Great Egrets (*Ardea alba*). Presented by IAR at the annual meeting of the Society of Environment Toxicology and Chemistry, Orlando, FL.

Frederick, P.C. Confronting uncertainties in Everglades restoration: will water bring the birds back? Presented as the departmental lecture at Clemson University, February 2016.

2017:

Rodriguez-Jorquera, I.A., N. Vitale, S. Orzechowski and **P.C. Frederick**. Effects of mercury exposure on nest success in great egrets (*Ardea alba*): The role of parental care. Presented by PCF at the Greater Everglades Ecosystem Conference. Coral Springs, Fl. April 2017

Frederick, P.C. Bird Brains. Presented by PF as a TED-style talk at the Greater Everglades Ecosystem Conference, Coral Springs, Fl. April 2017.

Frederick, P.C. Restoring oyster reef chains and their ecosystem services in the Big Bend of Florida. Invited presentation to the School of Forestry at University of Georgia, April 2017.

Frederick, P.C., D. Kaplan, B. Pine, L. Sturmer, M. Olabarietta, and A. V-Levinson. The ecological importance and restoration of offshore oyster reef chains in the Big Bend of Florida. Presented orally by PF at the Big Bend Science Symposium, Cedar Key FL, February 2017.

Frederick, P.C. Restoring oyster reef chains and their ecosystem services in the Big Bend of Florida. Presented orally by PF at the FGCU Biodiversity Conference, Ft. Meyers FL March 2017.

Frederick, P.C. Effects of environmental mercury exposure on wildlife. Presented orally by PF at UF sponsored meeting on Environmental and Public Health Issues Related to Mercury Exposure. Gainesville, FL. February 2017.

Frederick, P.C. Landscape, watershed and fisheries in the Big Bend of Florida. Oral presentation and commentary during field trip to Cedar Key of the 15th Annual Sustainable Agriculture Funders Forum, Gainesville Florida.

Frederick, P.C. Oyster reef habitat in Florida – trends and conservation approaches. Presented orally at the Florida Marine Science Symposium, St. Petersburg, FL.

Frederick, P.C. Restoration of the Lone Cabbage oyster reef and the Lower Suwannee National Wildlife Refuge. Presented orally by PF at the Florida Fish and Wildlife Conservation Commission and U.S. Fish and Wildlife Coordination Meeting, August 2017, Cedar Key Florida.

Frederick, P.C., L.N. Sturmer and W.E. Pine. What’s happening to oyster reefs? Presented as a poster by PF at the opening of the Nature Coast Biological Station, September 2017, Cedar Key, FL.

Frederick, P.C. Restoration of oyster reefs and their ecological services in the Big Bend of Florida. Presented orally by PCF to the IFAS Administration Council, January 2017, Cedar key, FL.

Frederick, P.C., W.E. Pine and L.N. Sturmer. Restoration of oyster reefs in the Big Bend of Florida. Presented orally by PCF as part of the Town of Suwannee Library Series, February 2017.

Frederick, P.C. Restoration of oyster reefs in the Big Bend of Florida. Presented orally by PCF to the Department of Agricultural and Biological Engineering, March 2017.

Frederick, P.C., W.E. Pine and L.N. Sturmer. Restoration of oyster reefs in the Big Bend of Florida. Presented orally by PCF at the Cedar Key Community Center, Cedar Key, FL.

Frederick, P.C. Oysters 101. Presented orally by PCF to the Hernando County Port Authority, Hernando Beach FL.

Frederick, P.C. Effects of mercury on wildlife. Presented orally by PCF to a group of aspiring high school students in a summer science program sponsored by UF’s Center for Toxicology. July 2017.

2018: **Frederick, P.C.** Invited panelist for: “Return of the Supercolonies”. Hosted by Everglades National Park, Homestead FL. July 2018.

Frederick, P.C. Using monitoring to reduce uncertainty in identifying key ecological drivers of populations: examples from the Everglades. Oral presentation by PCF at the annual meeting of the American Ornithological Society, Tucson AZ. April 2018.

Kim, K, V. LeCours and **P.C. Frederick**. 2018. Using micro-geomorphometry to quantify interstitial spaces of an oyster cluster. Presented by KK at the annual meeting of Geomorphometry (American Geophysical Union), Boulder CO August 13 – 17.

2019: **Frederick, P.C.** 2019. A Century of Research pays off: Restoring Wading Bird Populations in the Everglades is within Reach. Presented by PCF as a keynote talk at the annual meeting of the Florida Ornithological Society.

Frederick, P.C. 2019. Oyster reef restoration in the Big Bend. Presented by PCF to the Cedar Key Audubon Chapter, Cedar Key, FL February 2019.

Frederick, P.C., B. Pine and L. Sturmer. Using oyster reefs to restore estuaries in the Big Bend of Florida. Presented by PCF at the UF Eye Opener Discovery Breakfast, March 2019.

Frederick, P.C., B. Pine and L. Sturmer. Using oyster reefs to restore estuaries in the Big Bend of Florida. Presented by PCF at the Orange and Blue Plate lunch, Tallahassee FL. June 2019.

Frederick, P.C., B. Pine and L. Sturmer. Oyster reef restoration in the Big Bend of Florida. Presented by PCF at the Estuarine and Coastal Health Extension group meeting, Tampa Fl. February 2019.

2020: **Frederick, P.C.** Disentangling the real Everglades from its evil mercury-contaminated twin: a 35-year process. Presented as an invited plenary lecture at the 2020 annual online meeting of the Waterbird Society, November 2020.

Other Scientific Meeting Activity:

1990: Convener of the symposium entitled "Status and Future of Research on Small Fishes and Macroinvertebrates in the Everglades", at Florida International University.

1989 - 1995: Participant in Adaptive Ecosystem Assessment and Management in the Everglades. A series of five computer-assisted workshop meetings designed to assess the state of scientific knowledge about the Everglades, and to form adaptive strategies for future management.

1991: Attended "Wetlands Conservation Conference for Southern Africa". Gaborone, Botswana.

- 1992: Participant, "The Everglades Colloquy", a two-day investigation into the adaptive ecological, agricultural, and political strategies possible for Everglades management.
- 1995: Convener, "Everglades Aquatic Animal Research", 29 - 30 September West Palm Beach, Florida.
- 1996: Co-convener and Local Committee Chair, "Movements and population dynamics of colonial waterbirds as guides of the temporal and spatial scales of conservation. Symposium at the October 1996 meeting of the Colonial Waterbird Society, Charleston, SC.
- 1998: Co-organizer, annual meeting of the Colonial Waterbird Society, October 1998, North Miami Beach Fl.
- 1999: Co-organizer, "Effects Assessment for Mercury in Fish-eating Birds: Setting an Avian Wildlife Criterion" 7 – 8 October 1999, River Ranch Resort Fl.
- 2000: Chair, Scientific Program Committee, annual meeting of The Waterbird Society, Plymouth MA November 1 – 4 2000.
- 2001: Chair, Scientific Program Committee, annual meeting of The Waterbird Society, Niagara Falls Ontario November 7 – 11 2001.
- 2005: Co-chair, Local Committee, annual meeting of the Waterbird Society, Jekyll Island, Georgia, October 2005.
- 2007 - 2011. Chair of the local committee, 2011 annual meeting of the American Ornithologists Union, Jacksonville, Florida July 24 – 29.
- 2013: Co-host of the annual meeting of the American Oystercatcher Working Group. Cedar Key, FL.
- 2014: Host of a regionwide workshop on Avian Monitoring in the Gulf of Mexico. Cedar Key, FL.
- 2016: Host of a regionwide workshop on Avian Monitoring in the Gulf of Mexico. Cedar Key, FL.
- 2019: Host of a regionwide workshop on Avian Monitoring in the Gulf of Mexico, Cedar Key, FL.

Extension and Public Education:

- 1984: Public lecture on waterbird ecology at Belle Baruch Marine Lab, guided and advised **Tokyo Broadcasting Corporation** during filming of documentary on wading bird colonies of coastal South Carolina.
- 1987: Lectures to **Southern Everglades Technical Advisory Council, Everglades National Park Interpretive Center.**
- 1992: Advised and guided **BBC** documentary crew in the Everglades. Lectured to **Miskito Indian Conservation group Mikupia** on wetland conservation in coastal Nicaragua.
- 1993: Appeared in televised video on Wood Storks (**IFAS Media**), advised and guided two reporters from the **Miami Herald**, and one **National Geographic** photographer in the Everglades (see *National Geographic* 185(4)). Television interviews on **Channel 2 (Orlando)** and **Channel 7 (West Palm Beach)**. Newspaper interviews resulting in quotes in the **Miami Herald, Palm Beach Post, Orlando Sentinel, Toronto News, San Francisco Chronicle, Florida Trend Magazine, Florida Agriculture Magazine.** Testified before the Florida Game and Fresh Water Fish Commission. Participated in 100th anniversary canoe crossing of the Everglades. Lecture to local chapter of **Florida Audubon Society.**
- 1994: Interviews resulting in quotes in **Nature, the Washington Post, Palm Beach Post, Ft. Lauderdale Sun-Sentinel, Sanibel Times, Zoogoer Magazine, Bioscience.**
- 1995: Interviews resulting in quotes in the **Palm Beach Post, Fort Lauderdale Sun-Sentinel, Associated Press (2), Science, Ft. Meyers NewsPress, WUFT FM Gainesville, WNOG FM Naples, National Public Radio, 4-minute spot on Florida Public tv on mercury research.**
1996. Interviews resulting in quotes in: **Fort Lauderdale Sun-Sentinel, Florida Public TV, Palm Beach Post.**
1997. Interviews resulting in quotes in: **Palm Beach Post.** Gave talk to forest owners and managers on Wetland Wildlife Values in workshop on Wetland Forestry. Gave presentation on “Management of wetland birds” to **U.S. Fish and Wildlife Service** refuge managers during short course for wetland and shorebird management, Merritt Island NWR, March 1997. Consulted with **U.S. Fish and Wildlife Service, Florida Game and Freshwater Fish Commission, and South Florida Water Management District** on effects of construction blasting on Wood Stork reproduction.
1998. Interviews resulting in quotes in: **Palm Beach Post, National Wildlife, Florida Wildlife,** and announcement of public lecture in **Orlando News Tribune.** Consulted with **BBC** documentary team on feature film on the Everglades. Gave public presentation on wading birds at the 1998 **Florida Wading Bird Festival.** Consulted with **Florida Department of Environmental Protection** and provided review on proposal for ecotourism and education in wading bird breeding colonies. Consulted with **U.S. Fish and Wildlife Service**

- on Section Seven Endangered Species Act review for the **Everglades Restudy Plan**.
1999. Interviews resulting in quotes in **National Geographic News, Palm Beach Post, Associated Press, WUFT and Sky King radio**. Participated in workshops on “Success Criteria for Everglades Restoration”, June/July 1999.
2000. Participated in second workshop on Criteria for Everglades Restoration (July 2000). Interviews resulting in quotes in **Ft. Lauderdale Sun-Sentinel, Gainesville Sun, National Geographic News, WRUF-FM, WUFT-FM,**
2001. Interview resulting in quotes on **Florida Public Radio**. Public lecture at the **Florida Birding Festival**, September 2001.
2002. AP Wire Press release resulting in articles on **ABC news.com, Science and Life Magazine, St. Petersburg times, Naples Daily News, Lycos News Online, Polkonline, and University Science News**, interviews on **Florida Public Radio** and **Florida Environment Radio**. Interview resulting in article in **Naples Sun Times**.
2004. Interviews and press release resulting in quotes in **Orlando Sun Sentinel, Reuters News Agency, Gainesville Sun, Sun Sentinel Radio, WFCU florida Gulf Coast University radio, Florida Today**.
2005. Interviews and/or press release resulting in quotes in **Florida Agriculture, Naples Daily News, Florida Sun Sentinel, Miami Public Radio, Gainesville Public Radio, Tallahassee Public Radio, Gainesville Sun (3), Miami Herald, Tallahassee Democrat, Naples public radio station, Bradenton Herald, Bonita Daily News, IMPACT Magazine**.
2007. Interviews resulting in quotes in **Tampa Tribune, Naples Daily News, Daytona Paper**.
2010. Press release on 2 December 2010 covering publication of Proceedings of the Royal Society B paper. Radio interviews: **BBC, WUFT FM**; In-depth TV story: **CBS Miami**; in-depth reports: **BBC, Nature, Science, National Geographic, New Scientist, Florida Times-Union, LiveScience.com**. Stories also carried on **CNN, ScienceNow, Toronto Sun, London Mail, Birding Magazine, Gainesville Sun, Miami Herald, Gefiederte Welt, Palm Beach Post, Dallas Voice, Sciencercay.com, Ledger-Enquirer, Escience News, AOL News, Daily Mail, Discover Magazine, Staple News, Lexington Herald Leader, USA Today, Huffington Post, Wonkette, Futurity Today** and many other international sites. Translated into **14 languages**, appeared in **>120 blog sites**. Also interviewed about oyster research for article in *Florida* (UF Alumni Magazine), and on **Alabama Public Radio**.
- 2011: Interview resulting in quotes on **Florida Public Radio, Tampa Bay Times**.
- 2013: Interviews resulting in quotes in **Yale E360 Magazine, The Independent Alligator**.
2014. Featured role in “**Waterways Episode 271 - Everglades Wading Birds & Benthic Studies**” National Park Service (appx 3 million Florida viewers) <http://www.youtube.com/watch?v=ZXbgFQTqQ7k&feature=youtu.be>. Interviewed three times by UF journalism students. Interviewed for **Tampa**

- Tribune** article on Florida Forever. Featured in **Cedar Key News** article on Fusion of Arts and Biology <http://cedarkeynews.com/index.php/city-news/misc/985-uf-student-collaborative>. Quotes in article on use of unmanned aircraft for wildlife work in **The Gainesville Sun**.
2015. UF press release about oyster restoration in the Big Bend of Florida. Quotes on **WUFT-FM** about the Florida Forever program. Interview for articles by **AP, MSNBC, New York Times, Takepart.org, WMFE Orlando, OneEarth.org, Sierra Magazine and Premium Radio** articles on bird abandonments at Seahorse Key. Quoted in article on graduate student in Florida Sea Grant News (<https://www.flseagrant.org/news/2015/05/university-of-florida-student-to-serve-as-a-noaa-coastal-management-fellow/>)
2016. Quotes and interviews with Peter and graduate student Lucas Nell about bird-alligator relationships in: the **Los Angeles Times, The Daily Mail, The Australian, The Washington Post, Univision, The Nature Conservancy's Cool Green Science, New Scientist, WUFT, Scientific American's 60-Second Science podcast, AAAS Science Update, CBC "Quirks and Quarks", Discovery Planet "Daily Planet", Audubon Magazine, Science Recorder, Futurity Earth and Environment, Valuewalk, Science News.com, Christian Science Monitor**. Co-written article in **The Conversation** about Everglades management, with interview for **Circle of Blue, Vox** and the **Palm Beach Post**. Interview for article about Seahorse Key nest abandonments in **Audubon Magazine**. Article about oyster restoration project in **Newswise**. Presentations to Levy County Board of County Commissioners, Chiefland Rotary Club, Cedar Key library speaker series (see under Presentations). Quoted in article about climate change in **The Alligator**. Quoted in press release about land conservation in Alachua County by **USDA NRCS website**.
2017. Public talks on oyster reef restoration in towns of **Cedar Key, Suwannee, and Hernando County**, and at the opening of the **Nature Coast Biological Station**. Consulted with Citrus County School District on educational programs featuring hands on oyster restoration.
2018. Interview about oyster restoration on **WMFE Orlando and WUFT Gainesville** on oyster restoration. Stories on Lone Cabbage ribbon cutting published in **Gainesville Sun, Orlando Sentinel, Commercial Times, Daytona News Journal, Cedar Key Beacon, Chiefland Citizen, Hidden Coast Magazine, Southeast Agnet** (<http://southeastagnet.com/2019/02/06/lone-cabbage-reef-florida-coast/>), **WUFT** and on **National Public Radio (national broadcast)**. Hosted a table and display at 2018 **Nature Coast Biological Station Open House**. Created panel displays about oyster restoration installed at 3 boat ramps in **Levy and Dixie counties**. Created and distributed brochure about oyster restoration, maintained website. Worked with undergraduate journalism student Sianne Powe to produce a short video on alligator-bird mutualisms, now on the **Explore Research video wall at the Florida Museum**

of Natural History (see

<https://www.youtube.com/watch?v=Z2gnFABXJyg&feature=youtu.be>. Featured talk on **Youtube** “Return of the Supercolonies”

<https://www.youtube.com/watch?v=ufumhZdptM0&t=4128s>. Presentation to the board of the **National Fish and Wildlife Foundation** May 2018.

2019. Quoted in **Orlando Sentinel** about oyster restoration and freshwater flow, story carried in **Valdosta Daily Times, Walla-Walla Union Bulletin, Herald Mail Media, Bakersfield.com, The Eagle**.

2020. Quoted in **Florida Gator** winter 2019 issue in Wildlife ABCs. Press release, radio interviews with **WLRN FM Miami** and **WUFT FM Gainesville** on mercury findings, resulted in quotes in **The Washington Post, U.S. News and World Report, Union-Bulletin, The Palm Beach Post, WFIT Space Coast, Bradenton Herald, Hastings Tribune, Phys.org, Flipboard, Virginia-Pilot**.

Refereed Publications:

1. **Frederick, P. C.** 1985. Extrapair copulations in the mating system of the White Ibis (*Eudocimus albus*). Phd. Dissertation, University of North Carolina, Chapel Hill N.C.
2. **Frederick, P.C.** 1985. Intraspecific food piracy in White Ibis. *Journal of Field Ornithology* 56:413-414.
3. **Frederick, P.C.** 1986. Conspecific nest takeovers and egg destruction by White Ibises. *Wilson Bulletin* 98:156-157.
4. **Frederick, P.C.** 1986. Parental desertion of nestlings by White Ibis (*Eudocimus albus*) in response to muscle biopsy. *Journal of Field Ornithology* 57:168-169.
5. **Frederick, P.C.** 1986. A self-tripping trap for use with colonial nesting birds. *North American Bird Bander* 11:94-95.
6. **Frederick, P.C.** and M.A. Shields. 1986. Suspected intraspecific egg dumping in the White Ibis (*Eudocimus albus*). *Wilson Bulletin* 98:476-478.
7. **Frederick, P.C.** and M.A. Shields. 1986. Corrections for the underestimation of brood parasitism frequency derived from daily nest inspections. *Journal of Field Ornithology* 57:224-226.
8. Westneat, D.F., **P.C. Frederick**, and R.H. Wiley. 1987. The use of genetic markers to estimate the frequency of alternative reproductive tactics. *Behavioural Ecology and Sociobiology* 21:35-45.
9. **Frederick, P.C.** 1987. Extrapair copulations in the mating system of White Ibis (*Eudocimus albus*). *Behaviour* 100:170-201.

10. **Frederick, P.C.** 1987. Responses of male White Ibises to their mate's extra-pair copulations. *Behavioural Ecology and Sociobiology* 21:223-228.
11. **Frederick, P.C.** 1987. Chronic tidally-induced nest failure in a colony of White Ibises. *Condor* 89:413-419.
12. **Frederick, P.C.** and M.W. Collopy 1989. The role of predation in determining reproductive success of colonially-nesting wading birds (Ciconiiformes) in the Florida Everglades. *Condor* 91(4).
13. **Frederick, P.C.** and M.W. Collopy. 1989. Nesting success of five species of wading birds (Ciconiiformes) in relation to water conditions in the Florida Everglades. *Auk* 106:625-634.
14. **Frederick, P.C.** and M.W. Collopy. 1989. Researcher disturbance in colonies of wading birds: effects of frequency of visits and egg marking on reproductive parameters. *Colonial Waterbirds* 12: 152-157.
15. **Frederick, P.C.**, N. Dwyer, S. Fitzgerald and R.E. Bennetts. 1990. Relative abundance and habitat preferences of Least Bitterns (*Ixobrychus exilis*) in the Everglades. *Florida Field Naturalist* 18:1-20.
16. Bildstein, K.L., Post, W., Johnston, J., and **P.C. Frederick**. 1990. Freshwater wetlands, rainfall, and the breeding ecology of White Ibises (*Eudocimus albus*) in coastal South Carolina. *Wilson Bulletin* 102:84-98.
17. Custer, T.W. and **P.C. Frederick**. 1990. Egg size and laying order of Snowy Egrets, Great Egrets, and Black-crowned Night Herons. *Condor* 92:772-775.
18. Bildstein, K.L., **P.C. Frederick** and M. G. Spalding. 1991. Feeding patterns and aggressive behavior in juvenile and adult American Flamingos (*Phoenicopterus ruber ruber*). *Condor* 93:916-925.
19. Harris, L.D. and **P.C. Frederick**. 1991. The role of the Endangered Species Act in the conservation of biological diversity: an assessment. In: J. Cairns, Jr., T.V. Crawford (eds.) *Integrated Environmental Management*. Lewis Publishers, Chelsea MI.
20. **Frederick, P.C.** and K.L. Bildstein. 1992. Foraging behavior of seven species of neotropical ibises (Threskiornithidae) during the dry season in the llanos of Venezuela. *Wilson Bulletin* 104, 1-21.
21. **Frederick, P.C.**, R.D. Bjork, G.V.N. Powell and G.T. Bancroft. 1992. Reproductive success of three species of herons in relation to habitat in southern Florida. *Colonial Waterbirds* 15:192-201.

22. Bildstein, K.L., Blood, L., and **P. C. Frederick** 1992. The relative importance of biotic and abiotic vectors in nutrient processing. *Estuaries* 15:147-157.
23. **Frederick, P.C.** and W. F. Loftus. 1993. Responses of marsh fishes and breeding wading birds to low temperatures; a possible behavioral link between predator and prey. *Estuaries* 16:216-222.
24. **Frederick, P.C.**, M.G. Spalding, and G.V.N. Powell. 1993. An evaluation of methods for measuring nestling survival in colonially-nesting Tricolored Herons (*Egretta tricolor*). *Journal of Wildlife Management* 57:34-41.
25. Robertson, W. B. and **P. C. Frederick**. 1994. The faunal papers: contexts, synthesis, and departures. Pgs. 709 - 737 in: Everglades: the ecosystem and its restoration. S. Davis and J. C. Ogden (eds.) St. Lucie Press, Delray Beach Fl.
26. **Frederick, P. C.** and G.V.N. Powell, III. 1994. Nutrient transport by wading birds in the Everglades. Pgs. 571 - 584 in: Everglades: the ecosystem and its restoration. S. Davis and J. C. Ogden (eds.) St. Lucie Press, Delray Beach, Florida.
27. **Frederick, P.C.** and M.G. Spalding. 1994. Factors affecting reproductive success of wading birds (Ciconiiformes) in the Everglades ecosystem. Pgs. 659 - 691 in: Everglades: the ecosystem and its restoration. S. Davis and J. C. Ogden (eds.) St. Lucie Press, Delray Beach, Florida.
28. **Frederick, P. C.** and S. M. McGehee. 1994. Wading bird use of wastewater wetlands in Florida. *Colonial Waterbirds* 17: 50-59.
29. **Frederick, P. C.**, K. L. Bildstein, B. Fleury and J. C. Ogden. 1996. Conservation of nomadic populations of White Ibis (*Eudocimus albus*) in the United States. *Conservation Biology* 10:203 - 216.
30. **Frederick, P. C.**, S. M. McGehee and M. G. Spalding. 1996. Prevalence of *Eustrongylides ignotus* in mosquitofish (*Gambusia holbrooki*) in Florida: historical and regional comparisons. *Journal of Wildlife Disease* 32:552 - 555.
31. **Frederick, P. C.** and T. Towles. 1995. Roseate Spoonbills nesting at an inland location in the Everglades. *Florida Field Naturalist* 23:65-66.
32. Lorenz, J. J., G.V.N. Powell, C. C. McIvor and **P. C. Frederick**. 1997. A drop net and removable walkway for sampling fishes over wetland surfaces. *Wetlands* 17:346-359.

33. **Frederick, P. C.**, T. Towles, R. Sawicki and G. T. Bancroft. 1996. Comparison of aerial and ground techniques for discovery and census of long-legged wading bird (Ciconiiformes) nesting colonies in the Florida Everglades. *Condor* 98:837 - 841.
34. **Frederick, P. C.**, J. C. Sandoval, C. Luthin and M. G. Spalding. 1997. Dry-season populations of waterbirds in the Caribbean coastal wetlands of Nicaragua and Honduras. *Journal of Field Ornithology* 68:287-295.
35. **Frederick, P. C.** and J. C. Ogden. 1997. Philopatry and nomadism: contrasting long-term movement behavior and population dynamics of White Ibises and Wood Storks. *Colonial Waterbirds* 20:316-323.
36. Coulter, M. C. and **P. C. Frederick**. 1997. Movements and population dynamics of colonial waterbirds as guides for the temporal and spatial scale of conservation. *Colonial Waterbirds* 20:295-297.
37. **Frederick, P. C.** 1997. Tricolored Heron (*Egretta tricolor*). In *The Birds of North America*, No. 306 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and the American Ornithologists' Union, Washington, D. C. 28 pp.
38. Bouton, S. N., **P. C. Frederick**, M. G. Spalding and H. Lynch. 1999. The effects of chronic, low concentrations of dietary methylmercury on appetite and hunting behavior in juvenile Great Egrets (*Ardea albus*). *Environmental Toxicology and Chemistry* 18:1934-1939.
39. Sepulveda, M. S., **P. C. Frederick**, M. G. Spalding, and G. E. Williams, Jr. 1999. Mercury contamination in free-ranging great egret nestlings (*Ardea albus*) from southern Florida. *Environmental Toxicology and Chemistry* 18:985-992.
40. **Frederick, P.C.**, M. G. Spalding, M.S. Sepulveda, G. E. Williams Jr., L. Nico and R. Robbins. 1999. Exposure of Great Egret nestlings to mercury through diet in the Everglades of Florida. *Environmental Toxicology and Chemistry* 18:1940 - 1947
41. Sepulveda, M.S., G. E. Williams, **P. C. Frederick**, and M.S. Spalding. 1999. Effects of mercury on health and first year survival of free-ranging Great Egrets (*Ardea albus*) from southern Florida. *Archives of Environmental Contamination and Toxicology*. 37:369-376
42. Spalding, M.G., **P.C. Frederick**, H. C. McGill, S. N. Bouton, L. J. Richey, I. M. Schumacher, S. G. M. Blackmore and J. Harrison. 2000. Histologic, neurologic, and immunologic effects of methylmercury in captive Great Egrets. *Journal of Wildlife Diseases* 36:423-435.

43. Spalding, M. G., **P.C. Frederick**, H. C. McGill, S. N. Bouton and L. R. McDowell. 2000. Methylmercury accumulation in tissues and its effects on growth and appetite in captive Great Egrets. *Journal of Wildlife Diseases* 36:411-422.
44. **Frederick, P. C.** and D. Siegel-Causey. 2000. *Anhinga (Anhinga anhinga)*. In: The Birds of North America, No. 522 In: A. Poole and F. Gill, (eds.) The Birds of North America. American Ornithologists Union and the Philadelphia Academy of Natural Sciences, Philadelphia, PA.
45. **Frederick, P. C.** 2002. Wading Birds. Chapter 19, pgs. 617 - 655 in: *Biology of Marine Birds*, B. A. Schreiber and J. Burger, eds. CRC Press, Washington DC.
46. **Frederick, P.C.** (2000). Mercury and its effects in the Everglades ecosystem. *Reviews in Toxicology* 3:213 – 255.
47. Jie, D. and **P.C. Frederick** 2001. Nocturnal flight behavior of waterbirds in close proximity to a transmission powerline in the Florida Everglades. *Waterbirds* 24:419 - 424.
48. **Frederick, P. C.**, M. G. Spalding and R. Dusek. 2001. Wading birds as bioindicators of mercury contamination in Florida: annual and geographic variation. *Environmental Toxicology and Chemistry* 21:262-264.
49. **Frederick, P. C.** and J. C. Ogden. 2001. Pulsed breeding of long-legged wading birds and the importance of infrequent severe drought conditions in the Florida Everglades. *Wetlands* 21 (4): 484-491.
50. Salatas, J.H., **P.C. Frederick** and K. A. Nagy. 2002. Validation of the labeled-water method for estimating food consumption in nestling herons. *Auk* 119: 551 – 556.
51. Epanchin, P.N., J. A. Heath and **P. C. Frederick**. 2002. Effects of Everglades fires on wading bird colonies and individual survival. *Wilson Bulletin* 114:139-141.
52. Bouton, S. N. And **P.C. Frederick**. 2003. Stakeholder's perceptions of a wading bird colony as a community resource in the Brazilian Pantanal. *Conservation Biology* 17:297-306.
53. **Frederick, P.C.**, B. Hylton, M. Ruane and J.A. Heath. 2003. Accuracy and variation in estimates of large numbers of birds by individual observers using an aerial survey simulator. *Journal of Field Ornithology* 74:281-287.
54. Heath, J. A., **P.C. Frederick**, T. Edwards and L. J. Guillette. 2003. Reproductive physiology of free-living White Ibises (*Eudocimus albus*). *General and Comparative Endocrinology* 133:118-131.

55. Heath, J.A. and **P.C. Frederick**. 2003. Trapping White Ibises with rocket nets and mist nets. *Journal of Field Ornithology* 74: 187-192.
56. **Frederick, P.C.** and J.C. Ogden. 2003. Monitoring wetland ecosystems using avian populations: seventy years of surveys in the Everglades. Pgs.321-350 in: D. Bush and J. Trexler, eds. "Monitoring ecosystems: interdisciplinary approaches for evaluating ecoregional initiatives". Island Press, Washington, DC. 447 pgs.
57. **Frederick, P.C.**, B.A. Hylton, J.A. Heath and M.G. Spalding. 2004. A historical record of mercury contamination in southern Florida as inferred from avian feather tissue. *Environmental Toxicology and Chemistry* 23:1474-1478.
58. Heath, J.A. and **P.C. Frederick**. 2005. Relationships among mercury concentrations, hormones, and nesting effort of White Ibises. *The Auk* 122:255-267
59. Stolen, E. D., D. R. Breininger, and **P.C. Frederick**. 2005. Using waterbirds as indicators in estuarine systems: successes and perils. Pgs. 409-422 in: S. Bortone (ed). *Estuarine Indicators*. CRC Press, Boca Raton, Fl.
60. Bouton, S.N., **P.C. Frederick**, C. D. Rocha, A. T. Barbosa dos Santos and T.C. Bouton. 2005. Effects of tourist disturbance on Wood Stork nesting success and breeding behavior in the Brazilian Pantanal. *Waterbirds* 28.
61. **Frederick, P.C.**, J. A. Heath, R. Bennetts and H. Hafner. 2006. Estimating nests not present at the time of breeding surveys: an important consideration in assessing nesting populations. *Journal of Field Ornithology* 77:212 – 219.
62. Hylton, B.A, **P. C. Frederick**, T. E. Delafuente, and M.G. Spalding. 2006. Effects of nestling health on post-fledging survival of wood storks. *Condor* 108:97-106.
63. Hoffman, D.J., M.G. Spalding, and **P.C. Frederick**. 2005. Subchronic effects of methylmercury on plasma and organ biochemistries in great egret nestlings. *Environmental Toxicology and Chemistry* 24:3078 – 3084.
64. Heath, J. A. and **P. C. Frederick**. 2006. White Ibis integument color during the breeding season. *Journal of Field Ornithology* 77:141 – 150.
65. Babbitt, G.A. and **P. C. Frederick** 2007. Selection for bill dimorphism in ibises:an evaluation of hypotheses. *Waterbirds* 30(2):199-206.
66. **Frederick PC.** and K. D. Meyer. 2008. Longevity and size of Wood Stork (*Mycteria americana*) colonies in Florida as guides for an effective monitoring strategy in the southeastern United States. *Waterbirds* 31;12 - 18.

67. Adams, E.A. and **P.C. Frederick**. 2008. Effects of methylmercury and spatial complexity on foraging behavior and foraging efficiency in juvenile white ibises (*Eudocimus albus*). *Environmental Toxicology and Chemistry* 27: 1708-1712.
68. Borkhataria, R., **P.C. Frederick**, A.L. Bryan and J.A. Rodgers. 2008. A preliminary model of Wood Stork population dynamics in the southeastern United States. *Waterbirds* 31: 42 - 49.
69. Babbitt, G.A. and **P.C. Frederick**. 2008. Phenology of body mass changes during reproduction in a nomadic tropical waterbird, the Scarlet Ibis (*Eudocimus ruber*). *Zoo Biology* 27:360 - 370.
70. **Frederick, P.C.**, D. G. Gawlik, J.C. Ogden, M. Cook and Michael Lusk. 2009. White Ibis and Wood Storks as indicators for restoration of Everglades ecosystems. *Ecological Indicators* 9: S83-S85
71. Adams, E.A. and **P.C. Frederick**. 2009. Sex-related mortality of White ibis (*Eudocimus albus*) nestlings during a starvation event. *Waterbirds* 32:123-127.
72. Adams, E.A., **P.C. Frederick**, L. Guilette and I. Larkin. 2009. Sublethal effects of methylmercury on fecal metabolites of testosterone, estradiol, and corticosterone in captive juvenile white ibises (*Eudocimus albus*). *Environmental Toxicology and Chemistry* 28, 982–989.
73. Williams, K.A., **P.C. Frederick**, P. Kubilis and J. Simon. 2008. Visual bias in aerial estimates of colonially nesting white ibises and great egrets. *Journal of Field Ornithology* 79:438 - 448.
74. Heath, J. A., **P.C. Frederick**, J. A. Kushlan and K. L. Bildstein. 2009. White Ibis (*Eudocimus albus*), *The Birds of North America* (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology.
75. **Frederick, P.C.** and N.U.A. Jayasena. 2010. Altered pairing behavior and reproductive success in White Ibises exposed to environmentally relevant concentrations of methylmercury. *Proceedings of the Royal Society B*. 278 no. 1713, pgs 1851-1857
doi:10.1098/rspb.2010.2189
76. Williams, K.A., **P.C. Frederick** and J. D. Nichols. 2011. Use of the superpopulation approach to estimate breeding population size: an example in asynchronously breeding birds. *Ecology* 94: 821-828.
77. del Lama, S., C.D. Rocha, W. Figuredo Jardim, J. Tsai, and **P.C. Frederick**. 2011. Sedentary nestlings of Wood Stork as monitors of mercury contamination in the gold mining region of the Brazilian Pantanal. *Environmental Research* 111:1091-1095.
78. **Frederick, P.C.**, A. Cambell, N. U. A. Jayasena, and R.R. Borkhataria. 2011. Survival of White Ibises (*Eudocimus albus*) in response to chronic experimental methylmercury

- exposure *Ecotoxicology* 20, 358 - 364. *Ecotoxicology* 20:358-364.
79. Jayasena, N., **P.C. Frederick**, and I.L.V. Larkin. 2011. Endocrine disruption in white ibises (*Eudocimus albus*) caused by exposure to environmentally relevant levels of methylmercury. *Aquatic Toxicology* 105:321-327.
80. Seavey, J.R., W.E. Pine III, **P.C. Frederick**, L. Sturmer and M. Berrigan. 2011. Decadal changes in oyster reefs in the Big Bend of Florida's Gulf Coast. *Ecosphere* 2(10):114. doi:10.1890/ES11-00205.1
81. Borkhataria, R. R., **P. C. Frederick**, R.A. Keller and J.A. Collazo. 2012. Temporal variation in local wetland hydrology influences postdispersal survival of juvenile wood storks (*Mycteria americana*). *The Auk* 129:517–528.
82. Venne, L. and **P.C. Frederick**. 2013. Foraging wading bird (Ciconiiformes) attraction to prescribed burns in an oligotrophic wetland. *Journal of Fire Ecology* 9: 78 - 95
83. Borkhataria, R., A.L. Bryan and **P.C. Frederick**. 2013. Movements and habitat use by fledgling Wood Storks (*Mycteria americana*). *Waterbirds* 36: 409-417.
84. Ogden, J.C., J.D. Baldwin, O. L. Bass, J.A. Browder, M.I. Cook, **P.C. Frederick**, P.E. Frezza, R. A. Galvez, A.B. Hodgson, K. D. Meyer, L. D. Oberhofer, A. F. Paul, P.J. Fletcher, S.M. Davis, and J.J. Lorenz. (authors alphabetical). 2014. Waterbirds as Indicators of Ecosystem Health in the Coastal Marine Habitats of Southern Florida: 1. Selection and Justification for a Suite of Indicator Species. *Ecological Indicators*. 44: 148-163.
85. Ogden, J.C., J.D. Baldwin, O. L. Bass, J.A. Browder, M.I. Cook, **P.C. Frederick**, P.E. Frezza, R. A. Galvez, A.B. Hodgson, K. D. Meyer, L. D. Oberhofer, A. F. Paul, P.J. Fletcher, S.M. Davis, and J.J. Lorenz. (authors alphabetical). 2014. Waterbirds as Indicators of Ecosystem Health in the Coastal Marine Habitats of Southern Florida: 2. Conceptual Ecological Models. *Ecological Indicators* 44: 128-147.
86. Ramirez, J. L., C.Y. Miyaki, **P.C. Frederick** and S. N. del Lama. 2014. Species Delimitation in the Genus *Eudocimus* (Threskiornithidae: Pelecaniformes): First Genetic Approach. *Waterbirds*, 37(4):419-425.
87. Seavey, J.R., **P.C. Frederick** and V. Doig. 2014. Roseate Spoonbills (*Platalea ajaja*) nesting on Seahorse Key, Cedar Keys National Wildlife Refuge, Levy County, Florida. *Florida Field Naturalist* 42(2):61-63, 2014.
88. Nell, L.A. and **P.C. Frederick** 2015. Fallen nestlings and regurgitant as mechanisms of nutrient transfer from nesting wading birds to crocodilians. *Wetlands* 35:723-732.

89. Beerens, J.M., **P.C. Frederick**, E.G. Noonburg, and D.E. Gawlik. 2015. Determining habitat quality for species that demonstrate dynamic habitat selection. *Ecology and Evolution* 5:5685–5697.
90. Irick, D.L., B. Gu, Y.C. Li, P. W. Inglett, **P.C. Frederick**, M. S. Ross, A. L. Wright, and S. M. L. Ewe. 2015. Wading bird guano enrichment of soil nutrients in tree islands of the Florida Everglades. *Science of the Total Environment* 532:40 – 47.
91. Fidorra, J.C., **P.C. Frederick**, D.C. Evers and K.D. Meyer. 2015. Selection of human-influenced and natural wetlands by Great Egrets at multiple scales in the southeastern USA. *The Condor-Ornithological Applications* 118:46-56.
92. Tsai, J, B.E. Reichert, **P.C. Frederick** and K.D. Meyer. 2016. Breeding site longevity and site characteristics have intrinsic value for predicting persistence of colonies of an endangered bird. *Wetlands* 36:639-647.
93. Venne, L.S., J.C. Trexler and **P.C. Frederick**. 2016. Prescribed burn creates pulsed effects on a wetland aquatic community. *Hydrobiologia* 771: 281. <https://doi.org/10.1007/s10750-016-2640-y>
94. Klassen, J.A., D.E. Gawlik and **P.C. Frederick**. 2016. Linking wading bird prey selection to number of nests in a food-limited population. *Journal of Wildlife Management* 1450-1460.
95. Nell, L., **P.C. Frederick**, F.J. Mazzotti, K.A. Vliet and L.A. Brandt. 2016. Presence of breeding birds improves body condition for a crocodylian nest protector. *PLOS ONE* 11(3): e0149572. <https://doi.org/10.1371/journal.pone.0149572>
96. Kaplan, D.A., M. Olabarietta, **P.C. Frederick** and Arnaldo Valle-Levinson. 2016. Freshwater detention by oyster reefs: quantifying a keystone ecosystem service. *PLOS ONE* 11(12) <http://dx.doi.org/10.1371/journal.pone.0167694> .
97. **Frederick, P.C.**, N. Vitale, B. Pine, J. Seavey and L. Sturmer. 2016. Reversing a rapid decline in oyster reefs: Effects of durable substrate on oyster populations, elevations, and aquatic bird community composition. *J. Shellfish Research* 35:359-367.
98. Brush, J.M., A.C. Schwarzer and **P.C. Frederick**. 2017. Importance and function of foraging and roost habitat for wintering American Oystercatchers. *Estuaries and Coasts* 40:286-295.
99. Burtner, B. and **P.C. Frederick**. 2017. Attraction of nesting wading birds to alligators (*Alligator mississippiensis*): Testing the ‘Nest Protector’ hypothesis. *Wetlands* 37:697–704. DOI 10.1007/s13157-017-0900-x

100. Picardi, S, R.R. Borkhataria, A.L. Bryan JR, **P.C. Frederick** and M. Basille. 2018. GPS telemetry reveals occasional dispersal of Wood Storks from the southeastern US to Mexico. *Caribbean Naturalist Special Issue No. 2*:23–29.
101. Orzechowski, S.C.M., C. M. Romagosa and **P.C. Frederick**. 2019. Invasive Burmese pythons (*Python bivittatus*) are novel nest predators in wading bird colonies of the Florida Everglades. *Biological Invasions* 21: 2333 – 2344. DOI 10.1007/s10530-019-01979-x
102. Zabala, J., I. Rodriguez-Jorquera, S.C. Orzechowski and **P.C. Frederick**. 2019. Mercury concentration in nestling feathers better predicts nesting success at the individual reproductive success than egg or nestling blood in a piscivorous bird. *Environmental Science and Technology*. DOI: 10.1021/acs.est.8b05424
103. Orzechowski, S.C., **P.C. Frederick**, R.M. Dorazio and M.E. Hunter. 2019. Environmental DNA sampling reveals high occupancy rates of invasive Burmese pythons at wading bird breeding aggregations in the central Everglades. *PLOS ONE* 14(4): eo213943
<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0213943>
104. **Frederick, P.C.** W. Loftus, T. Lange, and M. Cunningham. 2020. Food Web Structures in Keystone Species. Chapter 4.2 pgs 13 – 192 *IN: Axelrad, D., C. Pollman and D. Rumbold. Mercury and the Everglades*. Springer Press.
105. Hernández, A.B., R.D. Brumbaugh, **P.C. Frederick**, R. Grizzle, M.W. Luckenbach, C. H. Peterson, and C. Angelini. 2018. Restoring the eastern oyster: how much progress has been made in 53 years? *Frontiers in Ecology and the Environment* 16:463-471
106. Zabala, J., A. M. Meade and **P.C. Frederick**. 2019. Variation in nestling feather mercury concentrations at individual, brood, and breeding colony levels: Implications for sampling mercury in birds. *Science of the Total Environment*. 671: 617 – 621.
<https://doi.org/10.1016/j.scitotenv.2019.03.382>
107. Gabel, W, **P.C. Frederick** and J. Zabala. 2019. Nestling carcasses from colonially breeding wading birds: patterns of access and energetic relevance for a vertebrate scavenger community. *Nature Scientific Reports* 9:14512 | <https://doi.org/10.1038/s41598-019-50986-4>
108. Espriella, M.C., V. Lecours, **P.C. Frederick**, E.V. Camp, and B. Wilkinson, 2020. Quantifying intertidal habitat relative coverage in a Florida estuary using UAS Imagery and GEOBIA. *Remote Sensing* 12:677 <https://doi.org/10.3390/rs12040677>
109. Zabala, J., J.C. Trexler, N.U.A. Jayasena and **P. Frederick**. 2020. Early breeding failure in birds due to environmental toxins: a potentially powerful but hidden effect of

- contamination. *Environmental Science and Technology* 54:13786 - 13796.
<https://dx.doi.org/10.1021/acs.est.0c04098>
110. Bruant, A, S. Picardi, **P.C. Frederick** and M. Basille. 2020. Effect of foraging and nest defense tradeoffs on the reproductive success of Wood Storks (*Mycteria americana*) . *Waterbirds*.
111. Carrasco-Rueda, F, B. A. Loiselle and **P.C. Frederick**. 2020. Mercury bioaccumulation in tropical bats from a region of active artisanal and small-scale gold mining. *Ecotoxicology* 29:1032 – 1042. <https://doi.org/10.1007/s10646-020-02195-3>
112. Picardi, S., **P.C. Frederick**, R. Borkhataria, and M. Basille. 2020. Partial migration in a subtropical wading bird in the Southeastern U.S. *Ecosphere* 11: e03054.
<https://doi.org/10.1002/ecs2.3054>
113. Picardi, S. B.J. Smith, M.E. Boone, **P.C. Frederick**, J. G. Cecere, D. Gubolini, L. Serra, S. Pirello, R. R. Borkhataria and M. Basille. 2020. Analysis of movement recursions to detect reproductive events and estimate their fate in central place foragers. *Movement Ecology* 8:24. <https://doi.org/10.1186/s40462-020-00201-1>
114. Moore, J.F., W. E. Pine III, **P.C. Frederick**, S. Beck, M. Moreno, M.J. Dodrill, L. Sturmer, and S. Yurek. 2020. Trends in oyster populations in the northeastern Gulf of Mexico: An assessment of river discharge and fishing effects over time and space. *Marine and Coastal Fisheries* 12:191 – 204. <https://doi.org/10.1002/mcf2.10117>
115. Yurek, S., M. Eaton, R. Lavaud, R.W. Laney, D.L. DeAngelis, W.E. Pine, M.K. La Peyre, J. Martin, **P.C. Frederick**, H. Wang, M. R. Lowe, F. Johnson, E.V. Camp, and R. Mordecai. 2020, in press. Modeling structural mechanics of oyster reef self-organization including environmental constraints and community interactions. *Ecological Modelling*.
116. Gabel, W., Zabala, J. and **P.C. Frederick**. 2020. Alligator presence influences colony site selection of long-legged wading birds through large scale facilitative nest protector relationship. *Nature- Scientific Reports*.
117. Lange T., Rumbold D.G., **Frederick P.C.**, Cunningham M., Pollman C.D. (2021, in press). Temporal Changes in Mercury Concentrations in Everglades Biota. In: Pollman C.D., Axelrad D.M., Rumbold D.G. (eds) *Mercury and the Everglades. A Synthesis and Model for Complex Ecosystem Restoration*. Springer, Cham. https://doi.org/10.1007/978-3-030-55635-8_2
118. Zabala, J., I. Rodríguez-Jorquera, J. C. Trexler, S. Orzechowski, L. Garner and **P. C. Frederick**. In press. Accounting for food availability reveals contaminant-induced breeding impairment, food-modulated contaminant effects, and endpoint-specificity of exposure indicators in free ranging avian populations. *Science of the Total Environment*.

119. Botta, R, J.S. Borsum, E. V. Camp, C.D. Court and **P.C. Frederick**. Short-term economic impacts of ecological restoration in estuarine and coastal environments: a case study of Lone Cabbage Reef. *Restoration Ecology*.
120. Alonso, A., N. G. Nelson, S. Yurek, D. Kaplan, M. Olabarrieta, and P.C. Frederick. 2021. In press. Estimating the influence of oyster reef chains on freshwater detention at the estuary scale using Landsat-8 imagery. *Estuaries and Coasts*.

Papers in review:

Pine, W. E., J.F. Moore, F.A. Johnson and P.C. Frederick. In review. Incorporating adaptive management principles to inform ongoing restoration and monitoring of intertidal oyster reefs. *Marine and Coastal Fisheries*.

Fournier, A.M.V., J.E. Lyons, R.R. Wilson, J.S. Gleason, E.M. Adams, L. Barnhill, J.M. Brush, R.J. cooper, S. J. DeMaso, M.J.L. Driscoll, M.J. Eaton, **P.C. Frederick**, M.G. Just, M.A. Seymour, J.M. Tirpak, and M.S. Woodrey. In review. Multi-criteria decision analysis of stakeholder values for optimal allocation of monitoring resources. *Ecological Applications*.

Fournier, A.M.V., J.E. Lyons, R.R. Wilson, J.S. Gleason, E.M. Adams, J. Brush, R.J. Cooper, S. J. DeMaso, M.J.L. Driscoll, **P.C. Frederick**, P.G.R. Jodice,, D. Reeves, M.A. Seymour, S. M. Sharuga, J.M. Tirpak, W. G. Vermillion, T.J. Tenzal, and M.S. Woodrey. (in review) The Gulf of Mexico Avian Monitoring Network: Application of structured decision making for coordinated, integrated monitoring. *Ecology and Society*.

Nonrefereed Publications

121. Bildstein, K.L. and **P.C. Frederick** 1985. Birds of the Pharoahs. *South Carolina Wildlife* 32:6-10.
122. **Frederick, P.C.** and M.W. Collopy 1988. Reproductive ecology of wading birds in relation to water conditions in the Florida Everglades. Florida Cooperative Fish and Wildlife Research Unit, School of Forest Resources and Conservation, Univ. of Florida Technical Rept. # 30. 300 pgs.
120. Bildstein, K.L., W. Post, **P.C. Frederick**, and J. Johnston. 1990. The importance of freshwater wetlands in the breeding ecology of coastal White Ibises (*Eudocimus albus*). In: Frederick, P.C., Morales, L.G., A.L. Spaans and C.S. Luthin (eds.). *The Scarlet Ibis: Status, conservation and recent research*. International Waterfowl Research Bureau, Slimbridge, U.K.

123. **Frederick, P.C.** 1990. Hydrological cues associated with the initiation and abandonment of nesting by White Ibises (Eudocimus albus) in the Everglades of Florida, U.S.A. In: Frederick, P.C., Morales, L.G., A.L. Spaans and C.S. Luthin (eds.). The Scarlet Ibis: Status, conservation and recent research. International Waterfowl Research Bureau, Slimbridge, U.K.
124. **Frederick, P. C.** 1991. Factors affecting reproductive success of wading birds. Symposium Proceedings, Southeastern Coastal Wetlands and Wildlife, Fish and Wildlife Service. Winter 1991.
125. **Frederick, P. C.** 1992. Review of: Summary performance report of Florida Wading Bird Atlas. Florida Field Naturalist 20:80-81.
126. **Frederick, P. C.** 1993. Review of: "Storks, Ibises and Spoonbills of the World" (J. Hancock, J.A. Kushlan and M. P. Kahl, 1992, Academic Press). The Auk, 110:963-964.
127. Erwin, R. M., **P. C. Frederick** and J. L. Trapp. 1993. Monitoring of colonial waterbirds in the United States: problems and prospects. pgs. 18 - 22 in: Moser, M., R. C. Prentice, and J. van Vessem (eds.). Waterfowl and wetland conservation in the 1990's - a global perspective. Proceedings IWRB Symposium 1993. International Waterfowl and Wetlands Research Bureau publication No. 26, Slimbridge, U.K. 263 pp.
128. **Frederick, P. C.** 1994. Review of "White Ibis, Wetland Wanderer" (K. L. Bildstein, 1993, Smithsonian Institution Press, Washington D. C. Florida Field Naturalist 22:55-56.
129. **Frederick, P. C.** 1996. Least Bittern (Ixobrychus exilis). Pgs. 381 - 387 in: Rodgers, J. A., H. W. Kale II and H. T. Smith (eds). Rare and Endangered Biota of Florida Vol. V. Birds. University Press of Florida.
130. **Frederick, P.C.** 1996. White Ibis (Eudocimus albus). Pgs. 466 - 474 in: Rodgers, J. A., H. W. Kale II and H. T. Smith (eds). Rare and Endangered Biota of Florida Vol. V. Birds. University Press of Florida.
131. **Frederick, P. C.** 1997. White Ibis (Eudocimus albus). Species account in: Florida Breeding Bird Atlas. Florida Audubon Society, Maitland Fl..
132. **Frederick, P. C.** 1997. Glossy Ibis (Plegadis falcinellus). Species account in: Florida Breeding Bird Atlas. Florida Audubon Society, Maitland, Fl..
133. **Frederick, P. C.** 1997. Review of: The Double-crested Cormorant: Biology, Conservation, and Management. The Wilson Bulletin 109:367-368.

134. Spalding, M.G. and **P.C. Frederick**. 1996. The Everglades: what can wading birds tell us about ecosystem health? (extended abstract) Pgs. 33 - 35 in: R. E. Junge, (ed.) Proceedings of Joint Conference, American Association of Zoo Veterinarians, Wildlife Disease Association, American Association of Wildlife Veterinarians, East Lansing, Michigan, August 1995.
135. Ogden, J. C., G. T. Bancroft and **P.C. Frederick**. 1997. Ecological success indicators: reestablishment of healthy wading bird populations. In: Ecologic and precursor success criteria for south Florida ecosystem restoration. A Science Sub-Group report to the Working Group of the South Florida Ecosystem Restoration Task Force. U. S. Army Corps of Engineers, Jacksonville, Fl.
136. **Frederick, P. C.** 1998. Effects of the 1992 – 1995 high water period on nesting effort and nesting success of wading birds (Ciconiiformes) in the central Everglades. Pgs. 137 – 146 in: T. V. Armentano, ed. Ecological assessment ofn the 1994 – 1995 high water conditions in the southern Everglades. Department of the Interior, Everglades National Park, Homestead, Fl.
137. **Frederick, P.C.** 2002. Review of: Dell’Omo: Behavioural Ecotoxicology. Behavioural Processes 60:241 – 242.
138. **Frederick, P.C.**, D. Axelrad, T. Atkeson and C. Pollman. 2005. Contaminants research and policy: The Everglades mercury story. National Wetlands Newsletter 27:3 – 6.
139. White, L. C., **P.C. Frederick**, M. B. Main and J.A. Rodgers, Jr. 2005. Nest Island Creation for Wading Birds. EDIS extension publication.
140. Steinkamp, M, **P. Frederick**, K. Parsons, H. Carter and M. Parker. 2005. The challenges of standardizing colonial waterbird survey protocols – What is working? What is not? Pgs. 1006 – 1008 in: Ralph, C.J. and T. D. Rich. Bird conservation implementation and integration the Americas: Proceedings of the Third International Partners in Flight Conference, 2002 March 20 – 24, Asilomar CA. Vol. 2. Gen. Tech. Rep. PSW-GTR-191. Albany CA. Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture. 643 pp.
141. Axelrad, D. M., T. D. Atkeson, T. Lange, C. D. Pollman, C. C. Gilmour, W.H. Orem, I. A. Mendelssohn, **P. C. Frederick**, D. P. Krabbenhoft, G. R. Aiken, D. G. Rumbold, D. J. Scheidt and P. I. Kalla. 2006. Mercury Monitoring, Research and Environmental Assessment in South Florida. Chapter 3B, Vol. I in the 2006 South Florida Ecosystem Report. South Florida Water Management District, West Palm Beach, Fl.
142. **Frederick, P.C.**, D. Axelrad, T. Atkeson and C. Pollman. 2005. Contaminants research and policy: The Everglades mercury story. National Wetlands Newsletter 27:3 – 6.

143. Pradhan, R., T. Norbu and **P.C. Frederick**. 2011. The Critically Endangered White-bellied Heron. Royal Society for the Protection of Nature, Bhutan. 141 pgs.
144. **Frederick, P.C.** 2013. Suwannee Sound project aims to restore oyster reefs. Cedar Key Beacon Oct. 31, 2013. Pg. 1, 4.
145. **Frederick, P.C.** and L. Sturmer. 2013. Restoration of the Lone Cabbage oyster reef in Suwannee Sound. Hidden Coastlines. Winter 2013. Pg. 5, 21.
146. **Frederick, P.C.** 2016. Restoring the Everglades will benefit both humans and nature. The Conversation 29 May 2016.
147. Radabaugh, K.R., S. Hesterberg, S. King, G. Herbert, **P. Frederick** and W. Pine. 2019. Chapter 4. Big Bend and Springs Coast. Pgs. 68 – 82 in: Radabaugh, k.R., S. P. Geiger, R. P. Moyer, eds. Oyster Integrated Mapping and Monitoring Program Report for the State of Florida. Florida Fish and Wildlife Conservation Commission Fish and Wildlife Research Institute Technical Report 22.
148. **Frederick, P.**, and C. Green. 2020. GoMAMN Strategic Bird Monitoring Plan: Wading Birds. Pages 203-228 in R. R. Wilson, A. M. V. Fournier, J. S. Gleason, J. E. Lyons, and M. S. Woodrey (Eds.), Strategic Avian Monitoring Guidelines for the Northern Gulf of Mexico, Gulf of Mexico Avian Monitoring Network. Mississippi Agricultural and Forestry Experiment Station Research Bulletin 1228, Mississippi State University. 324 pp
149. Picardi, S., **Frederick, P.C.**, Borhataria, R. and M. Basille. 2020. Wood Storks: Iconic wetland-dwellers in the southeastern USA. Bulletin of the Ecological Society of America. <https://doi.org/10.1002/bes2.1693>