



GEER 2017

Greater Everglades Ecosystem Restoration
Advancing Science, Restoring the Everglades

April 17-20, 2017 | Coral Springs, Florida, USA

www.conference.ifas.ufl.edu/GEER2017

Monday, April 17, 2017	
9am	Workshop Attendee Arrival and Registration [<i>Conference Center Wing</i>]
10:00am-5:00pm	<p style="text-align: center;"><u>Optional Pre-Conference Workshops</u></p> <p style="text-align: center;">Water, Energy and Carbon Cycling Within the Greater Everglades Ecosystem [<i>Ibis</i>]</p> <p style="text-align: center;">-AND-</p> <p style="text-align: center;">Enhancing Engagement: Skills & Strategies to Involve Stakeholders in Everglades Restoration Efforts [<i>Sandpiper</i>]</p>
4pm - 7pm	Main Conference Registration Open
4:00pm-7:00pm	<p style="text-align: center;">Exhibiting Sponsors and Poster Session One Presenters Install Displays</p> <p style="text-align: center;"><i>(Poster Session One presenters will remove displays on Wednesday during the 10:00am-10:20am refreshment break. Poster Session Two presenters will install displays on Wednesday during the 12noon-1:20pm lunch break.)</i></p>
5:00pm - 7:00pm	<p style="text-align: center;">Informal Networking Social on Breeze's Terrace</p> <p style="text-align: center;"><i>(Please plan to arrive in time to join us!)</i></p>
Tuesday, April 18, 2017	
7:30am-5:00pm	Conference Registration Open
7:30am-8:30am	Morning Refreshments in Poster & Sponsor Display Area
8:30am-10:00am	<p style="text-align: center;"><u>Opening Plenary Session: Bridging Science to Management in Large-scale Ecosystem Restoration Programs</u></p> <p style="text-align: center;"><i>[Great Cypress & Royal Poinciana]</i></p> <p style="text-align: center;"><u>Opening Remarks - Conference Chair</u></p> <p style="text-align: center;">Nick Aumen, Regional Science Advisor - South Florida, US Geological Survey, Davie, FL</p> <p style="text-align: center;"><u>Welcome and Introductions</u></p> <p style="text-align: center;">Jack Payne, Senior Vice President for Agriculture and Natural Resources, University of Florida/IFAS, Gainesville, FL</p> <p style="text-align: center;"><u>Presenters</u></p> <p style="text-align: center;">Mike Chotkowski, San Francisco Bay-Delta Science Coordinator, US Geological Survey, Sacramento, CA "Cultivating Reproducible Science and Social Capital in Major Science Enterprises"</p> <p style="text-align: center;">Stephen Brandt, Professor, Oregon State University, Corvallis, OR "Ecosystem Forecasting: Bridging Science to Management"</p>
10:00am-10:20am	AM Refreshment Break in Poster & Sponsor Display Area

Tuesday, April 18, 2017					
Concurrent Sessions – 10:20am - 12:00noon					
	Session 1	Session 2	Session 3	Session 4	Session 5
	Great Cypress	Royal Poinciana	Ibis	Egret	Sandpiper
	The Utility of Strategic Communication to the GEER Community of Practice	Everglades Stormwater Treatment Areas: Understanding the Flow-Way Black Box - Part I	Tools in Support of Restoration and Invasive Species Science and Management	Controls on Wildlife Population Dynamics	Applying Innovative Modeling Approaches to Protect and Restore the Greater Everglades
10:20am	Matt Harwell	Delia Ivanoff	Joel Trexler	Rolando Santos	Donald DeAngelis
	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
10:30am	Matt Harwell The Science of Strategic Communication	Delia Ivanoff Current State of the Stormwater Treatment Areas	David Lagomasino Stick in the Mud: Mangrove Loss in South Florida	Simona Picardi Tracking Large-Scale Movements of Wood Stork in the Greater Everglades Ecosystem	William Harford Forecasting Inshore Red Tide Blooms Using Recent Past Offshore Conditions on the West Florida Shelf
10:45am	Stephanie Johnson Strategic Communication of the National Academies of Sciences, Engineering, and Medicine: Everglades Studies and Beyond	Rupesh Bhomia Nutrient Storages in the Everglades Stormwater Treatment Areas	Hannah Cooper Fusing LiDAR with RTK GPS Using Random Forest Regression Shows Promising for DEMs of Mangrove and Sawgrass Soil Heights in Florida's Coastal Everglades	Michelle Petersen Effect of Water-Level Fluctuations on Resource Selection of Wading Birds	Steven Bartell Application of the Comprehensive Aquatic System Model (CASM) in Support of Ecosystem Restoration
11:00am	Todd Hopkins Using Strategic Communication to Advance the Mission of the Landscape Conservation Cooperatives	Mike Jerault Phosphorus Flux in the Everglades Stormwater Treatment Areas	Daina Stoutenburg A New Eye in the Sky: A Case Study on 3D Modeling Everglades Restoration Projects With Drone Imagery	Dale Gawlik Evolving Views of Food-Limitation in Wading Birds: Differing Implications of Prey and Foraging Habitat Availability	Simeon Yurek Simulating a Classic Study of Prey Concentration in the Everglades in Support of Long Term Decision Strategy
11:15am	Patti Gorman Strategic Communication of REStoration COordination VERification (RECOVER) Science for the Comprehensive Everglades Restoration Program	Serge Thomas Settling and Entrainment Properties of Stormwater Treatment Area Particulates	DeEtta Mills "Agri-Dogs": Using Canines for Earlier Detection of Laurel Wilt Disease Affecting Avocado Trees (<i>Persea Americana</i>) in South Florida	Jason Bosley Long-Term Changes in Territory Use: A Markovian Approach to Modeling Bald Eagle Dynamics in Florida Bay	Bo Zhang Simulating the Impact of Biological Control on an Invasive Plant by Using an Individual Based Model (JABOWA)
11:30am	Shannon Estenoz Strategic Communication at the South Florida Ecosystem Restoration Task Force	Manuel Zamorano Historical Performance of the STA-3/4 Periphyton-based Stormwater Treatment Area	Rebekah Wallace Citizen Science and IveGot1	Rolando Santos Integration of Fishery-Dependent Data and Local-Ecological Knowledge to Characterize Bonefish <i>Albula Vulpes</i> Population Trends in Florida Bay	Eric Swain Numerical Model for Short-Term Forecasting of Everglades Hydrology Using a Current Conditions Water-Level Network
11:45am	Q&A - Discussion	Q&A - Discussion	Q&A - Discussion	Q&A - Discussion	Q&A - Discussion
12noon-1:20pm	Lunch Buffet Provided				

Tuesday, April 18, 2017					
Concurrent Sessions – 1:20pm - 3:00pm					
	Session 6	Session 7	Session 8	Session 9	Session 10
	Great Cypress	Royal Poinciana	Ibis	Egret	Sandpiper
	Status, Causes, and Consequences of Ongoing, Large-Scale Seagrass Die-off in Florida Bay	Everglades Stormwater Treatment Areas: Understanding the Flow-Way Black Box - Part II	Plant Communities: Ecology and Management	Habitat Links to Wildlife Ecology	Biocontrol of Weeds in the Greater Everglades Ecosystem, Part 1
1:20pm	Amanda McDonald	Delia Ivanoff	Sue Newman	Mark Cook	LeRoy Rodgers
	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
1:30pm	James Fourqurean Dieoff Déjà Vu – The Late 1980’s Seagrass Dieoff in Florida Bay Looked Eerily Similar to Current Events	Odi Villapando Water Quality Along Inflow to Outflow Gradient of the Everglades Stormwater Treatment Areas	Junbin Zhao Photosynthetic Activity of C3 and C4 Graminoids in Response to Water Table Change in a Short-Hydroperiod Wetland of the Florida Everglades	Emilie Kohler Prey Selection by the Little Blue Heron (<i>Egretta Caerulea</i>) in Great White Heron National Wildlife Refuge	Carey Minteer Determining the Feasibility of Biological Control of a Weed Target
1:45pm	Christopher Kavanagh Florida Bay 2015 Seagrass Die-Off: Extent and Characteristics	Kanika Inglett Microbial Dynamics in the Stormwater Treatment Areas	Helen Hammond Survey for <i>Lygodium Microphyllum</i> and Other Invasive Exotic Species on Tree Islands in Water Conservation Area 3	Edwin Everham Anurans as Indicators of Landscape Change in Southwest Florida	Rosalind James USDA-ARS National Program Overview of Biocontrol of Weeds
2:00pm	Margaret Hall Long-Term Changes in Florida Bay Seagrass Communities: Tales of Resilience and Vulnerability	Jill King Role of Vegetation on Phosphorus Reduction in the Everglades Stormwater Treatment Areas	Michael Manna Honing the Blade of Active Marsh Improvement: Is Sequence Important for Controlling Cattail for Rehabilitation of Ridges and Sloughs?	Jennifer Nestler Assessing Habitat Use in the American Crocodile (<i>Crocodylus Acutus</i>), a Threatened Species in the Greater Everglades Ecosystem	Greg Wheeler Biocontrol of Weeds in the Greater Everglades Ecosystem: Process, Challenges and Paths Forward
2:15pm	Paul Carlson Physical, Chemical, and Biological Processes Cause Seagrass Mortality in Florida Bay	Kevin Grace Effect of Limerock Substrates on the STA Water Quality and Vegetation Characteristics	Michael Duever Considerations for Controlling Willow Invasions of Marshes	Jenna May The Effects of Colony Structure and Nest Position on the Nesting Success of Wading Birds	Bob Tichenor Why Has it Taken So Long to Permit New Weed Biocontrol Agents?
2:30pm	Christopher Kelble Seeing the Forest through the Dead Seagrass: Response of Florida Bay Fish Species to Seagrass Dieoffs, Salinity, and Other Environmental Factors	Stefan Gerber Data Integration and Synthesis Framework for Understanding the Phosphorus Cycling and Reduction Mechanisms in STA Flow-ways	Donny Smoak Will Future Soil Accretion in the Mangrove Forest Keep Up with Sea Level Rise?	Mark Cook Investigating Active Marsh Improvement Approaches for Restoring Water Bird Habitat in the P-Enriched Everglades	Eric Rohrig Interagency Coordination for the Mass Production and Distribution of Biological Control Agents
2:45pm	Q&A - Discussion	Q&A - Discussion	Q&A - Discussion	Q&A - Discussion	Q&A - Discussion
3:00pm-3:20pm	PM Refreshment Break in Poster & Sponsor Display Area				

Tuesday, April 18, 2017						
Concurrent Sessions – 3:20pm - 5:00pm						
Session 11		Session 12		Session 13		
Great Cypress		Royal Poinciana		Ibis		
Water Storage in Comprehensive Everglades Restoration Plan		Everglades Stormwater Treatment Areas: Understanding the Flow-Way Black Box - Part III		Modeling for Everglades Restoration		
Wildlife Diet and Stress		Biocontrol of Weeds in the Greater Everglades Ecosystem, Part 2				
3:20pm	Thomas Van Lent		Rupesh Bhomia		Fahmida Khatun	
	Introduction & Overview		Introduction & Overview		Introduction & Overview	
3:30pm	Wendy Graham Options to Reduce High Volume Freshwater Flows to the St. Lucie and Caloosahatchee Estuaries and Move More Water from Lake Okeechobee to the Southern Everglades		Larry Fink An Analysis, Integration and Synthesis for Enhancing Nutrient Removal by Stormwater Treatment Areas for Everglades Restoration		Jaime Graulau-Santiago Modeling of the PSRP South West Flood Protection Features in the Gridded Surface Subsurface Hydrologic Analysis Tool	
	Ashley Jackson Diet Shift of Egrets in Response to Environmental Change		Ellen Lake Confirming Safety: Ecological Host-range and Monitoring for Spillover in Weed Biological Control			
3:45pm	Kevin Kotun Water Storage Features in the Comprehensive Everglades Restoration Plan (CERP) – Original Goals and Current Status		William Gao Stormwater Treatment Area Performance Prediction using Artificial Neural Networks		Michael Brown Use of a Natural System Regional Simulation Model in Restoration Project Planning	
	Mathew Denton Stable Isotope Ecology of American Alligators within the Greater Everglades		Melissa Smith Biotic Resistance in Weed Biological Control			
4:00pm	Rajendra Paudel A Comparison of the Benefits of Northern and Southern Everglades Storage		Kristin Vaughan Evaluation of Inundation Depth and Duration Threshold for Cattail Sustainability – In Situ Study		Fahmida Khatun Evaluation of Options for Sending More Water to Florida Bay via Taylor Slough Using Regional Simulation Model for the Everglades and Lower East Coast	
	Marisa Martinez Prey Availability of Wading Birds in Intertidal Systems		Phil Tipping Indirect Effects – Food Webs in Biological Control			
4:15pm	Sanjay Shukla Water Storage and Treatment Services from Agricultural Lands in the Northern Everglades		Wasantha Lal Mapping Vegetation Properties and Flow Patterns in Stormwater Treatment Areas (STAs) Using Wave Tests		Kiren Bahm Effects of Restoration Alternatives on Stages and Flows in the Southern Everglades, Using the Mike Marsh Model of Everglades National Park (M3ENP)	
	Michiko Squires Responses of American Crocodiles to Environmental Conditions at a Power Plant Site in Southern Florida		Lyn Gettys Integrated Weed Control			
4:30pm	Q&A - Discussion		Forrest Dierberg Soil Accrual and Phosphorus Retention in a Flow-Way Dominated By Submerged Aquatic Vegetation within an Everglades Treatment Area: A Longitudinal Study		Christopher Buzzelli Predicting the Responses of Seagrass and Oyster Habitats to Changes in Water Management	
			Betsy Evans Dietary Flexibility of Wood Storks in Response to Human-Induced Landscape Change in South Florida		Min Rayamajhi Ecosystem Recovery Following Implementation of Weed Biological Controls; <i>Melaleuca quinquenervia</i>	
4:45pm			Q&A - Discussion		Q&A - Discussion	
5:00pm-7:15pm	Poster Session One & Networking Reception <i>(To allow for greater interaction and ease of discussion, presenters at ODD numbered boards are asked to stand at their posters from 5:30-6:15pm. There will be a break for poster presenters to switch and a prize drawing from 6:15-6:30pm. Presenters at EVEN numbered boards are asked to stand at their posters from 6:30-7:15pm.)</i>					

Wednesday, April 19, 2017	
7:30am-5:00pm	Conference Registration Open
7:30am-8:30am	Morning Refreshments in Poster & Sponsor Display Area
8:30am-10:00am	<p style="text-align: center;"><u>Plenary Session:</u> <u>Design, Innovation, and Governance (DIG): Solutions for Everglades Restoration</u> <i>[Great Cypress & Royal Poinciana]</i></p> <p style="text-align: center;"><u>Session Organizers:</u></p> <p style="text-align: center;">Fred Sklar, Director and Section Administrator, Everglades Systems Assessment Section, South Florida Water Management District, West Palm Beach, FL <i>–and–</i> Nick Aumen, Regional Science Advisor – South Florida, United States Geological Survey; GEER 2017 Chair</p> <p style="text-align: center;">“Sustainability” — Dan Childers, Professor, Arizona State University, Tempe, AZ</p> <p style="text-align: center;">“Keeping it Real” — Stephanie Johnson, Senior Program Officer, National Academy of Sciences, Washington, DC</p> <p style="text-align: center;">“The Allegory of the Patient” — Fred Sklar, Director and Section Administrator, Everglades Systems Assessment (ESA) Section, South Florida Water Management District, West Palm Beach, FL</p> <p style="text-align: center;">“Bird Brains” — Peter Frederick, Research Professor, University of Florida/IFAS, Gainesville, FL</p> <p style="text-align: center;">“The Value of Citizen Science” — Jennifer Rehage, Assistant Professor, Florida International University, Miami, FL</p> <p style="text-align: center;">“Resource Governance” — The Honorable Robert "Bob" Graham, former Florida Governor and United States Senator, Miami Lakes, FL</p>
10:00am-10:20am	<p style="text-align: center;">AM Refreshment Break in Poster & Sponsor Display Area <i>(ATTENTION Poster Session One Presenters: Please remove your poster during this refreshment break.)</i></p>

Wednesday, April 19, 2017						
Concurrent Sessions – 10:20am - 12:00noon						
Session 16		Session 17		Session 18		
Great Cypress		Royal Poinciana		Ibis		
Everglades REMAP 2014: Landscape Findings for Mercury, Sulfur, Nutrients, and Vegetation		Ecological Resilience and Regime Shifts: Evidence for Human and Climate Impacts on Coastal Ecosystems		RECOVER Five-Year Plan		
Ecology, Climate and Restoration Along the Southern Everglades' Boundary		Genetic Tools and Environmental DNA (eDNA) Surveillance to Inform Invasive Species Management				
10:20am	Peter Kalla & Dan Scheidt		Anna Wachnicka		April Patterson	
	Introduction & Overview		Introduction & Overview		Introduction & Overview	
10:30am	Jennifer Richards The Landscape Context for REMAP IV: Plant Community Distribution and Cover Derived from Vegetation Mapped with WorldView2 Satellite Data		Anna Wachnicka Detecting Signs of Impending Large-Scale Ecological Regime Shifts in South Florida Estuaries Through the Lens of Paleoecology		Glenn Landers New Climate Change Information for Consideration in Enhancing Everglades Restoration Climate Preparedness and Resilience	
	Tom Frankovich Light Attenuation in Estuarine Mangrove Lakes		Sophia Orzechowski 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			
10:45am	Leonard Scinto Spatial Distribution in Everglades Nutrient Budgets and Their Effects on Biogeochemical Processes		Debra Willard Long-term Patterns of Coastal Response to Changing Land Use and Climate: Examples from the Atlantic and Gulf Coastal Plains		Presenter TBD Integration and Refinement of Everglades Science: New Conceptual Models and Analysis of Ecological Vulnerability	
	Peter Frezza Response of the Sav Community in the Coastal Mangrove Zone of Florida Bay to Record Rainfall and Increased Freshwater Flow		Joshua Finn Environmental DNA (eDNA) and Environmental RNA (eRNA) Markers for Invasive Species Detection			
11:00am	Guangliang Liu Distribution of Mercury Species in the Everglades: A Geochemical Perspective and Implications on Mercury Bioaccumulation		Lynn Wingard Centennial to Millennial Scale Perspective on the Role of Salinity in Ecological Regime Shifts in South Florida's Estuarine Ecosystems		Andy LoSchiavo Targeted Adaptive Management to Inform CERP Progress	
	Michelle Robinson Unique Hydrologic Events during the 2015-16 Hydrologic Year Provide Further Incite into the Effectiveness of the C-111 Spreader Canal Western Project		Edgardo Diaz-Ferguson Molecular Characterization of Arthur R. Marshall Loxahatchee National Wildlife Refuge Fish Community			
11:15am	Yong Cai Decadal Variations of Mercury in Mosquitofish in the Everglades and Relation to Changes in Atmospheric Hg Deposition and Ecosystem Alteration		Michael Savarese Shifting Baselines in Southwest Florida's Oyster Populations: The Effects of Overharvesting by Native Americans and the Implications for Future Management and Restoration of Oyster Reefs		Gretchen Ehlinger RECOVER's Role in CERP Implementation	
	Michael Kline Effects of a US-1 Mitigation Effort on Hydrologic Conditions and SAV Abundance		Jared Wood Insights into the Introduction Histories of the Nile Monitor (<i>Varanus Niloticus</i>) and Argentine Black-and-White Tegu (<i>Salvator Merianae</i>) in Florida via Next Generation Sequencing and Population Genetic Analysis			
11:30am	Peter Kalla Everglades R-EMAP Phase IV 2014: Implications for Mercury Methylation and Bioaccumulation		Laurel Collins Historical Perspective on the Ecosystem Health of Florida Bay - A Foraminiferal Proxy for Seagrass Abundance		Agnes McLean Integration and Refinement of Everglades Science: A Relook at CERP Interim Goals and Targets	
	Meijing Zhang Investigate Spatial Differences in Flooding Risk Associate with Rainfall and Canal Water Stage in the C-111 Agricultural Basin		Kelly Williams Finding NiMo: eDNA Detection of Nile Monitors (<i>Varanus Niloticus</i>)			
11:45am	Q&A - Discussion		Q&A - Discussion		Q&A - Discussion	
12noon-1:20pm	Lunch Buffet Provided (ATTENTION Poster Session Two Presenters: Please install your poster during this lunch break.)					

Wednesday, April 19, 2017					
Concurrent Sessions – 1:20pm - 3:00pm					
	Session 21	Session 22	Session 23	Session 24	Session 25
	Great Cypress	Royal Poinciana	Ibis	Egret	Sandpiper
	Periphyton Responses to Water Flow and Nutrient Loading and Implications for Everglades Restoration	Groundwater Discharge Along Coasts	Evaluation of Factors Influencing Methylmercury Accumulation in South Florida Marshes	Ecological Response to Changing Stressors in Everglades Estuaries	Landscape Perspectives from the Central Everglades; 14th Annual A.R.M. Loxahatchee NWR Science Workshop
1:20pm	Luca Marazzi	Rene Price	Forrest Dierberg & Paul Julian	Andre Daniels	Steven Henry
	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
1:30pm	Barry Rosen Why the Primary Producers (Algae and Cyanobacteria) are the Key Early Responders to Nutrient and Water Flow Changes in the Everglades	Rene Price Significance of Groundwater Discharge to Coastal Zones	Binhe Gu High Biotic Mercury in South Florida Wetlands: Fish Trophic Position and Wading Bird Redistribution	Christian Avila A Review of Seagrass Losses and Algal Blooms in Biscayne Bay	Rebekah Gibble Unique Role of the A.R.M. Loxahatchee National Wildlife Refuge in the Greater Everglades Landscape
1:45pm	Sue Newman Effects of Increased Flow and Associated Phosphorus Loads on Microbial Responses	Hilary Flower Rapid and Intense Phosphate Desorption Kinetics When Saltwater Intrudes into Carbonate Rock	Paul Julian Limiting Factors in Mercury Methylation Hotspot Development: The Tangled Web	Galia Varona Development, Persistence, and Impacts of a Decade Long Macroalgal Bloom in Biscayne Bay	Yong-shan Wan Hydrologic Drivers of Ecological Processes in the Central Everglades
2:00pm	Evelyn Gaiser Water Quality Implications of Hydrologic Restoration Alternatives in the Florida Everglades, USA: A Periphyton Perspective	Christopher Smith The Role of Tides in Groundwater-Surface Water Exchange in the Shark River, Florida Coastal Everglades, Florida	Curtis Pollman Biogeochemical Variables Driving Temporal Dynamics and Spatial Variability in Mercury Bioaccumulation in <i>Gambusia</i> in the Everglades - A Model Analysis Using R-EMAP	Lauren Kircher Changes in Salinity in the St. Lucie Estuary and Implication for Snook Movement Patterns	Donatto Surratt Development of a Simple Vegetation Index to Monitor Habitat Impacts
2:15pm	Erik Tate-Boldt The Influence of Altered Flow Regimes on Aquatic Ecosystem Metabolism in an Everglades Marsh	Shimelis Dessu Taylor Slough Groundwater Discharge Simulation Using Sutra	Tom DeBusk Investigation of Factors that Contribute to Variations in Mosquitofish (<i>Gambusia holbrooki</i>) Mercury Concentrations in Water Conservation Area 2A	Amanda Kahn Dickens St. Lucie Estuary and Indian River Lagoon: Examining Seagrass Species Composition Coupled with Flow Rates and Salinity	Andrew Eastwick Invasive Exotic Species in the Northern Everglades: A Regional Perspective
2:30pm	Sarah Bornhoeft Influence of an Experimental Sheet Flow Regime on Aquatic Food Webs of the Central Everglades	Joshua Allen Hydrochemical Conditions of Two Estuarine Mangrove Lake Drainage Systems in the Everglades	Andrew Ogram Phylogenetic Distribution of Mercury Methylators in the Water Conservation Areas	Andre Daniels Hypersalinity Impacts on Seagrass and Molluscan Communities in Western Florida Bay	Steve Traxler Role of Landscape Conservation Cooperatives (LCCs) in Everglades Restoration
2:45pm	Q&A - Discussion	Q&A - Discussion	Q&A - Discussion	Q&A - Discussion	Q&A - Discussion
3:00pm-3:20pm	PM Refreshment Break in Poster & Sponsor Display Area				

Wednesday, April 19, 2017					
Concurrent Sessions – 3:20pm - 5:00pm					
Session 26		Session 27		Session 28	
Great Cypress		Royal Poinciana		Ibis	
Egret		Sandpiper			
Invasive Species in the Restoration Context		Freshwater-Estuarine Gradients in Biogeochemistry		Hydrologic and Ecological Forecasting in Support of Natural Resource Planning	
Assessing Ecosystem Response to Restoration and Water Management		Snail Kites & Apple Snails			
Jon Lane		John Kominoski		James Beerens	
Michael Simmons		Stephanie Romañach & Paul Gray			
Introduction & Overview		Introduction & Overview		Introduction & Overview	
Introduction & Overview		Introduction & Overview		Introduction & Overview	
Robert McCleery Burmese Pythons and Urbanization Shape the Meso-Mammal Community Across the Everglades		Colin Saunders Flow Impacts on P and Organic Matter Cycling in the Ridge and Slough: Lessons from Landscape Budgets in the Decomp Physical Model and Shark River Slough, Everglades National Park		Leonard Pearlstine Revisiting Everglades Species Ecological Models for Planning and Assessment	
Gregory Sonnier Assessing the Success of Hydrological Restoration in Two Conservation Easements within the Headwaters of the Everglades		Kenneth Meyer Movements of Snail Kites (<i>Rostrhamus sociabilis</i>) Tracked by Satellite, 2007-2016: Habitat Associations, Multiple Residence Areas, and Sustainable Management of a Range-Wide Habitat Network			
Jeffrey Kline Expansion and Dominance of Non-Native Fish Populations Across Everglades National Park		Greg Starr Seasonal Patterns in Energy Partitioning of Everglades Freshwater Marshes		James Beerens The Sensitivity of Everglades Species Model Predictions Across Near-Term Depth Forecasts	
Jennifer Chastant Preserving the South Florida Ecosystem Mosaic: Palm Beach County Natural Areas with Emphasis on Acreage Pines Natural Area		Robert Fletcher Consequences of Hydrology for Reproduction by Snail Kites: A 20-Year Investigation			
Joel Trexler Non-Native Fish and Everglades Restoration: An Unexpected Challenge to Restoring An Iconic Ecosystem		Lu Zhai Application of a Dual-Isotope Model in the Shark River Slough Watershed: Separating Increases in Salinity Due to Saltwater Intrusion from that Due to Evaporation		Joseph Long An Operational Forecast Model for Coastal Water Levels	
Sean Sculley Response to the WCA-3A High Water Emergency February – May 2016		Ellen Robertson A Conservation Genetic Assessment of the Florida Snail Kite			
Marsha Ward Tree Island Restoration in the Florida Everglades: Reversing the Exotic Plant Invasion		Rudolf Jaffé Tracers of Organic Matter Transport in Flowing Everglades Wetlands, from Marsh to Estuary		Mark McKelvy Designing a Software Framework for Hydrologic Forecasts and Modeling Species Responses	
Shawn Clem Recent Hydrologic Change in a Rainfall-Driven Western Everglades Swamp		Brent Bachelder Enhance It and They Will Come - Everglade Snail Kite Utilization of Habitat Management Areas on Lake Okeechobee			
Michael Rochford Relationships Between Invasive Wildlife and Ecosystem Restoration in the Florida Everglades		John Kominoski Shifting Long-term Biogeochemical Baselines: Enhanced Marine Connectivity Increases Nutrient Availability in Coastal Wetland Ecosystems		Stephanie Romañach Managing Multiple Species with Conflicting Needs in the Everglades	
Bob Sobczak WERP: How an Obsolete Levee and an Abandoned Jetport Hold the Key to a Rain-Driven Swamp		Jennifer Bernatis Occurrence of Apple Snails Beyond the Shallow Marsh			
Q&A - Discussion		Q&A - Discussion		Q&A - Discussion	
Q&A - Discussion		Q&A - Discussion		Q&A - Discussion	
Evening On Own					

Thursday, April 20, 2017					
7:30am-5:00pm	Conference Registration Open				
7:30am-8:00am	Morning Refreshments in Poster & Sponsor Display Area				
8:00am-10:15am	Poster Session Two & Networking (To allow for greater interaction and ease of discussion, presenters at ODD numbered boards are asked to stand at their posters from 8:30-9:15am. There will be a break for poster presenters to switch and a prize drawing from 9:15-9:30am. Presenters at EVEN numbered boards are asked to stand at their posters from 9:30-10:15am.)				
	Concurrent Sessions – 10:20am - 12:00noon				
	Session 31	Session 32	Session 33	Session 34	Session 35
	Great Cypress	Royal Poinciana	Ibis	Egret	Sandpiper
	Sea-Level Rise and Everglades Restoration: Coastal Wetland Dynamics and Responses	Biogeochemical Controls and Effects of Mercury Contamination of the Everglades: An Ecosystem Perspective	Delivering Climate Change Research to Support Decision Making	Wetland Forest	Human Dimensions
10:20am	Tiffany Troxler	David Krabbenhoft	Young Gu Her	Tom Dreschel	Andrew Stainback
	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
10:30am	Tiffany Troxler Carbon Cycle Science in the Florida Coastal Everglades: Research to Inform Landscape Management	Brett Poulin The Influences of Dissolved Organic Matter on Mercury Bioavailability in the Florida Everglades: Insights on Organic Sulfur Chemistry	Michael Spranger Public Engagement Strategies to Address Today's Complex Issues	Shimon Wdowinski Estimating Mangrove Canopy Height and Above-Ground Biomass in the Everglades National Park with Airborne LiDAR and TanDEM-X Data	Jennifer Cooper Influence of Floating Aquatic Vegetation on Environmental Parameters Affecting Phosphorus Removal in the Everglades Agricultural Area
10:45am	Ben Wilson Biogeochemical and Physiological Effects of Simulated Sea Level Rise in the Coastal Everglades	William Orem Ecosystem-Wide Modeling of Methylmercury Distributions in the Everglades: Responses to Reductions in Sulfate Loading	Young Gu Her Modeling Strategies to Provide a Holistic Picture of Climate Change and Sea Level Rise Impacts in South Florida	Rebecca Howard Vegetation and Soil Elevation Dynamics in a Mangrove-Marsh Ecotone within the Picayune Strand Restoration Project Impact Area	Timothy Collins Risks for Florida's Native Land Snails and Residents from the New Guinea Flatworm <i>Platydemus manokwari</i>
11:00am	Shelby Servais Effects of Increased Salinity on Microbial Processing of Carbon and Nutrients in Brackish and Freshwater Wetland Soils	Darren Rumbold A Regional-Scale Ecological Risk Assessment of Mercury Across South Florida	Yuncong Li Impact of Climate Change and Sea Level Rise on Farmland Adjacent Everglades	Alexandra Serna Soil Building Processes in Re-Created Everglades Tree Islands	Elizabeth Kelly Fecal Indicator Bacteria (FIB) and Beach Management Policies
11:15am	Mike Osland Coastal Wetland Vulnerability to SLR in the Greater Everglades: A Synthesis of USGS Wetland Surface Elevation Change Studies	Peter Frederick Effects of Mercury Exposure on Nest Success in Great Egrets (<i>Ardea alba</i>): The Role of Parental Care	Mathieu Basille Engaging Society in Every Step of the Scientific Process: A Plea for New Extension Approaches	Mike Ross Structure and Recent Dynamics in Coastal Everglades Tree Islands	Kathleen Sullivan Sealey The Dynamic Interplay Between Floods and Finance: Rebuild vs. Relocate Decisions Calculated with Restored Wetland Valuation
11:30am	Fred Sklar Coastal Subsidence as a Function of Salinity Intrusion and Peat Decomposition in a Karst Environment	David Krabbenhoft Drivers of Geospatial & Temporal Variability in the Distribution of Mercury and Methylmercury in ENP	Pamela Fletcher Techniques for Including Extension in Research and Reporting	Tom Dreschel The Ghost Tree Islands of Everglades Water Conservation Area 2A: Tracing a History of Change	Andrew Stainback The Economic Significance of Florida Bay
11:45am	Q&A - Discussion	Q&A - Discussion	Q&A - Discussion	Q&A - Discussion	Q&A - Discussion
12noon-1:20pm	Lunch Buffet Provided				

Thursday, April 20, 2017					
Concurrent Sessions – 1:20pm - 3:00pm					
	Session 36	Session 37	Session 38	Session 39	Session 40
	Great Cypress	Royal Poinciana	Ibis	Egret	Sandpiper
	The DPM High-Flow Experiments: Direct Observations to Serve Adaptive Management	Ecology and Community Dynamics of Invasive Reptiles	Acoustic Technology for Restoration and Management (Part 1 of 2)	Marl Prairie Landscape: Its Ecology and Importance in Everglades Restoration	Sea Level Rise and Saltwater Intrusion: Biogeochemistry and Water Quality
	Jay Choi	John Volin	Erik Stabenau	Jay Sah	Todd Osborne
1:20pm	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
1:30pm	Jud Harvey Testing the Restoration of a Free-flowing Everglades: The Decompartmentalization Physical Model (DPM) High-flow Experiments	Brian Smith Stable Isotopes Reveal Remarkable Niche Plasticity of Invasive Burmese Pythons	Aaron Rice Fish Bioacoustic Activity in Everglades National Park: Processing and Scaling for Effective Restoration and Management	Jay Sah Marl Prairie Landscape as the Cape Sable seaside sparrow Habitat: the Pivot of Hydrologic Restoration in Southern Everglades	Anteneh Abiy Evaluation of Regional Hydroclimate Variability and Links to the Hydrology and Saltwater Intrusion in South Florida
1:45pm	Carlos Coronado Effect of Increased Sheetflow on Sediment Transport Dynamics Along the L67C Canal	M. Rockwell Parker Understanding the Reproductive Chemical Ecology of Invasive Reptiles: Burmese Pythons and Argentine Tegus	Jennifer Rehage Understanding How Snook Respond to the Hydrological Landscape: Synchrony in Movement Over Time	James Snyder The Response of Muhly Grass (<i>Muhlenbergia capillaris</i> var. <i>filipes</i>), a Prairie Dominant, to Fire and Flooding	Steve Davis Episodic Disturbance Effects on Florida Coastal Everglades Water Quality
2:00pm	Mike Bush Effects of Hydroscape Modification on Everglades Aquatic Consumers: Evaluating Two Hypotheses	Emma Hanslowe Assessment of Python and Boa Records from the Florida Keys	Joseph Park Avian Source Localization from a Small-Aperture Acoustic Array	Thomas Virzi Next Steps Towards Recovery of the Cape Sable Seaside Sparrow	Miriam Jones Impact of Sea-Level Rise on Everglades Carbon Storage Capacity
2:15pm	Jennifer Lewis Transport of Phosphorus with Suspended Particulates During Experimental Restoration of Everglades High Flows	Bryan Falk How Can We Use Activity Patterns to Improve the Management of Invasive Reptiles?	Kevin Boswell Predator Density and Water-Level Mediate Prey Utilization of an Intertidal Estuarine Highway	Jesse Blanchard Fish in Marl Prairies-Disturbance Severity, Invasions, Traits and Emergent Community Structure	Viviana Mazzei Functional and Compositional Responses of Periphyton Mats to Simulated Saltwater Intrusion in the Southern Everglades
2:30pm	Christa Zweig Scaling Active Management	Frank Mazzotti A Scientific Framework for a Simplified Conceptual Approach for Early Detection, Rapid Response and Removal of Invasive Wildlife: Removing Veiled Chameleons (<i>Chamaeleo Calyptrotus</i>)	Jessica Noble How a Disturbance Event Impacted the Overwintering Home Range of Common Snook	Jimi Sadle Someone Has to Watch the Crabgrass Grow: A Survey of Potential Effects of Hydrologic Restoration on Marl Prairie Plant Species	Kristie Wendelberger Halophytes Can Salinize Soil When Competing with Glycophytes, Intensifying Effects of Sea Level Rise in Coastal Communities
2:45pm	Q&A - Discussion	Q&A - Discussion	Q&A - Discussion	Q&A - Discussion	Q&A - Discussion
3:00pm-3:20pm	PM Refreshment Break in Poster & Sponsor Display Area				

Thursday, April 20, 2017					
Concurrent Sessions – 3:20pm - 5:00pm					
	Session 41	Session 42	Session 43	Session 44	Session 45
	Great Cypress	Royal Poinciana	Ibis	Egret	Sandpiper
	System-wide Modeling to Predict Ecological Outcomes of Restoration	Integrating Science and Management for Controlling Invasive Species	Acoustic Technology for Restoration and Management (Part 2 of 2)	Integrated Phosphorus Management	Biscayne Bay
3:20pm	Jud Harvey	Vic Engel & Julien Martin	Jennifer Rehage	Melodie Naja	Sarah Bellmund
	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
3:30pm	Walter Wilcox Refining Flow Restoration to Work with the Landscape	Brad Udell Decision Analysis for the Optimal Control of Melaleuca	Megan McKenna Underwater Acoustic Monitoring in U.S. National Parks	Yogesh Khare Hydrologic and Water Quality Modeling for Evaluating Best Management Practices Implementation in a Western Everglades Watershed	Sarah Bellmund Salinity in Biscayne Bay and the Biscayne Bay Coastal Wetlands
3:45pm	Jay Choi Modeling Restoration Outcomes for the Everglades Ridge-Slough Landscape	Christina Romagosa Improving the Decision-Making Process for Early Detection and Rapid Response Actions	Ross Boucek Snook are Just Awesome Woodstorks Pt. 2: Assessing the Importance of Foraging Habitat at Spawning Aggregation Sites for Two Estuarine Species	Maria Loinaz Integrated Phosphorus Model to Evaluate Changes in Land Management in Agricultural Basins North of the Everglades	Joan Browder Reconstituting the Estuarine Community of Mainland Nearshore South-Central Biscayne Bay
4:00pm	William Nardin Multi-Vegetation Feedbacks Affecting Flow Routing and Bed Shear Stress Distributions in Everglades Ridges and Sloughs	Daniel Slone Risk Assessment to Inform Management Decisions: Non-Native Fishes in Everglades National Park	Greg Hill Fine Scale Tracking of Water Level by Sunfish: Implications for Wading Bird Foraging	Chelsea Qiu Hydrological Control on Phosphorus Concentration in the Everglades: The Role of Water Level Dynamics in a Marsh-Canal Hydrosystem	Ian Zink Nearshore Pink Shrimp Densities Relative to Habitat Limitations in Biscayne Bay: A Spatiotemporal Analysis of 10 Years of Data
4:15pm	Laurel Larsen Effects of Flow Reconnection on Connectivity of Biogeochemical Processes in the Everglades	Mathieu Bonneau Optimal Control of an Invasive Species Using a Reaction Diffusion Model and Linear Programming	Kristen Hart Passive Acoustic Tracking of Marine Turtles in Coral Reef Seascapes	Hongying Zhao A Systematic Approach in Evaluating the Source/Sink Behaviors for Water Quality Parameters in an STA Canal	Bahram Charkian Restoration Benefits Observed from the Biscayne Bay Coastal Wetlands Project
4:30pm	Carl Fitz Integrated Landscape Trends of Water Depth/Flow, Phosphorus and Sulfate, Soil Accretion, and Vegetation Under Future Management Scenarios Including Climate Change and SLR	Fred Johnson Navigating the Science-Policy Boundary in Natural Resource Management	Bradley Strickland Using Telemetry to Elucidate the Roles of Estuarine Predators and Likely Impacts of Restoration	Jehangir Bhadha Phosphorus Management through Sustainable Agricultural Practices in South Florida	Jerry Lorenz Recent Changes in Nesting Patterns of Roseate Spoonbills in the Everglades Suggest a Response to Sea Level Rise and Global Climate Change
4:45pm	Q&A - Discussion	Q&A - Discussion	Q&A - Discussion	Q&A - Discussion	Q&A - Discussion
5pm - 6pm	Networking Reception in Poster & Sponsor Display Area				
6pm - 7pm	Closing Keynote Address				
	Michael Grunwald , senior writer for Politico Magazine, and Editor-at-Large of POLITICO's new public policy site, The Agenda				
7:00pm-8:00pm	Stay afterward for a BOOK SIGNING and chance to meet the author!				
	Books available for \$20 each (cash only please): <u>The Swamp: The Everglades, Florida, and the Politics of Paradise</u> -and- <u>The New New Deal: The Hidden Story of Change in the Obama Era</u>				
7pm - 9pm	Exhibitor and Poster Move-out — Conference Concludes				