

**Tentative Agenda**  
**Greater Everglades Ecosystem Restoration (GEER) 2015 - Science in Support of Restoration**

<b>Monday, April 20, 2015</b>					
10:00am-5:00pm	<b>OPTIONAL: Invasive Species Workshop in Ibis &amp; Egret</b>				
3:00pm-6:00pm	Conference Registration Opens and Poster Presenters Install Displays				
5:30pm - 7:00pm	Networking Social on Breeze's Terrace				
<b>TUESDAY</b>					
<b>Tuesday, April 21, 2015</b>					
7:00am-5:00pm	Conference Registration Open in Grand Floridian Ballroom Foyer				
7:00am-8:30am	<b>Morning Refreshments in Poster Hall</b>				
8:30am-10:00am	<b>Opening Plenary Session in Great Cypress &amp; Royal Poinciana</b>				
8:30am-10:00am	<p><b>Science, Policy, and Decision-Making for Everglades Restoration</b></p> <p>Moderator: Nick Aumen, Regional Science Advisor - South Florida, United States Geological Survey</p> <p style="text-align: center;"><u>Welcome and Introductions</u></p> <p><b>K. Ramesh Reddy</b>, Graduate Research Professor and Department Chair of University of Florida Soil and Water Science Department  <b>Jack Payne</b>, Senior Vice President for Agriculture and Natural Resources, University of Florida, Institute of Food and Agricultural Sciences (IFAS)</p> <p style="text-align: center;"><u>Presentations</u></p> <p><b>Jennifer Gimbel</b>, Assistant Secretary for Water and Science, Department of the Interior  <b>A Federal Policy Perspective</b></p> <p><b>Suzette Kimball</b>, Acting Director, United States Geological Survey (USGS)  <b>USGS Science in Support of Everglades Restoration</b></p> <p><b>Shannon Estenoz</b>, Director of Everglades Restoration Initiatives, Department of the Interior  <b>Science Communication to Managers: Harmony, Cacophony, and Everything in Between</b></p>				
10:00am-10:20am	<b>AM Break in Poster Hall</b>				
10:20am-12noon	<b>Concurrent Sessions</b>				
Location	Great Cypress	Royal Poinciana	Ibis	Egret	Sandpiper
	<b>Session 1</b>	<b>Session 2</b>	<b>Session 3</b>	<b>Session 4</b>	<b>Session 5</b>
	<b>Sea-Level Rise and Restoration Part I: Understanding and Projections of a Changing Landscape and Seascape</b>	<b>Linking Everglades Restoration and Mercury Cycling, Bioaccumulation and Toxicity</b>	<b>Biscayne Bay Part I: Assessment of Current and Recent Ecosystem Conditions in Western Biscayne Bay</b>	<b>Contribution of Weed Biological Control in Support of Everglades Restoration</b>	<b>Snail Kites &amp; Apple Snails</b>
Moderator	Glenn Landers	David Krabbenhoft	Patrick Pitts	James Cuda	Stephanie Romafach
10:20am	<b>Introduction</b>	<b>Introduction</b>	<b>Introduction</b>	<b>Introduction</b>	<b>Introduction</b>
10:30am	<b>Jayantha Obeysekera</b> An Overview of Global and Regional Sea-Level Rise Projections	<b>George Aiken</b> The Influences of Dissolved Organic Matter on Mercury Cycling in the Florida Everglades	<b>Sarah Bellmund</b> Salinity Patterns and Trends in Western Biscayne Bay	<b>Min Rayamajhi</b> Biological Control of <i>Melaleuca quinquenervia</i> in Southern Florida	<b>Kenneth Meyer</b> Snail Kite Satellite Telemetry Reveals Large-Scale Movements and Concentrated Use of "Peripheral" Wetlands for Habitat Management, Population Monitoring, and Exposure to Toxins
10:45am	<b>Frank Marshall</b> Sea-Level Rise and Climate Change at the Coastal Boundary: Observations, Projections, and Issues of Concern for Resource Management	<b>Michael Tate</b> An Examination of the Net Methylmercury Production in the Florida Everglades using a Eulerian Approach	<b>Diego Lirman</b> SAV Communities of Western Biscayne Bay, Miami, Florida, USA: Human and Natural Drivers of Seagrass and Macroalgal Abundance and Distribution	<b>Julio Medal</b> Biological Control of Tropical Soda Apple, <i>Solanum viarum</i> (Solanaceae) in Florida: A Successful Project	<b>Robert Fletcher</b> The Demographic Causes of Population Growth and Decline in the Snail Kite
11:00am	<b>Jack Cosby</b> Analysis of Sea-Level Rise and Climate Change Scenarios for Florida Bay using the Fathom Model	<b>Morgan Maglio</b> Drivers of Geospatial and Temporal Variability in the Distribution of Mercury and Methylmercury in the Everglades National Park	<b>Gladys Liehr and Joan Browder</b> Biscayne Bay Alongshore Epifauna - Indicators of Ecosystem Change	<b>Ellen Lake</b> Biological Control of <i>Lygodium microphyllum</i>	<b>Tyler Beck</b> Managing Habitat for the Everglade Snail Kites ( <i>Rostrhamus sociabilis plumbeus</i> ) on Central Florida Lakes
11:15am	<b>Eric Swain</b> Effects of Sea-Level Rise and Water Management on the Hydrologic Impact of Historic Storms	<b>Darren Rumbold</b> Trophic Transfer of Mercury Along Salinity Gradients in Shark River and Caloosahatchee River Estuaries	<b>Joseph Serafy</b> CERP and Killifish Habitat in Biscayne Bay's Littoral Zone	<b>Eric Rohrig</b> Biological Control of Air Potato, <i>Dioscorea bulbifera</i> , in Florida	<b>Philip Darby</b> Evaluating Snail Kite Prey Availability Benchmarks in the Kite Habitat Network
11:30am	<b>René Price</b> Phosphorus Release from the Biscayne Aquifer with Sea-Level Rise	<b>Kristen Hart</b> Mercury Bioaccumulation in Pythons from the Greater Everglades	<b>Ligia Collado-Vides</b> Nutrients as a Potential Source to Sustain a Persistent Bloom of Anadyomene J.V. Lamaroux ( <i>Anadyomenaceae, Chorophyta</i> ) in Biscayne Bay Florida	<b>William Overholt</b> Prospects for Classical Biological Control of Cogongrass	<b>Christopher Cattau</b> Effects of the Exotic Apple Snail ( <i>Pomacea maculata</i> ) on Snail Kite Behavior and Demography
11:45am	<b>Glenn Landers</b> Potential Sea Level Change Impacts within the Shark River Slough Basin Area	<b>Ted Lange</b> Fish Mercury in the Florida Everglades: Management Implications for Everglades Restoration	<b>Christian Avila</b> Spatial and Temporal Trends of a Multi-Year Macroalgal Bloom	<b>James Cuda</b> Recent Advances in Biological Control of Brazilian peppertree, <i>Schinus terebinthifolia</i>	<b>Steffan Pierre</b> The Relative Contributions of Landscape and Local Conditions to Invasion Success of the Non-Native Apple Snail in Ranchland Wetlands
12noon-1:00pm	<b>Lunch Provided on Breeze's Terrace</b>				

1:20pm-3:00pm	Concurrent Sessions				
Location	Great Cypress	Royal Poinciana	Ibis	Egret	Sandpiper
	Session 6	Session 7	Session 8	Session 9	Session 10
	<b>Sea-Level Rise and Restoration Part II: Ecological Responses and Influences on a Changing Landscape and Seascape</b>	<b>Advances in Use of the Trophic Hypothesis to Guide Monitoring and Management of the Everglades</b>	<b>Biscayne Bay Part II: Coastal Restoration and Management of Biscayne Bay</b>	<b>Linking Hydrology to Ecology in Restoration Planning, Design, and Implementation</b>	<b>Advanced Technologies in Everglades Ecosystem Restoration</b>
Moderator	David Rudnick (Todd Osborne, co-chair)	Dale Gawlik	Sarah Bellmund & Sharon Ewe	Andrew LoSchiavo	Christa Zweig
1:20pm	Introduction	Introduction	Introduction	Introduction	Introduction
1:30pm	<b>Todd Osborne</b> Forecast Effects of Sea-Level Rise on Coastal Wetland Structure and Function	<b>Peter Frederick</b> Potential Effects of Nest Predation, Contamination, and Distant Wetland Attractors on Reproductive Responses of Wading Birds to CERP	<b>Bahram Charkhian</b> Biscayne Bay Coastal Wetland Restoration Benefits	<b>Brad Foster</b> SMART Planning for the Central Everglades Planning Project	<b>Kristin Seitz</b> Use of Molecular Techniques to Identify Everglades' Aquatic Fungal Community Associated with Cattail Decomposition
1:45pm	<b>Joseph M. Smoak</b> Mangrove Forest Soil Accretion Rates and the Relationship with Sea Level and Storms Over the Past Century	<b>Jerry Lorenz</b> Adapting the Everglades Trophic Hypothesis to Roseate Spoonbills in an Estuarine Environment	<b>Stephen Blair</b> Biscayne Bay - A Jewel in Jeopardy	<b>Melissa Nasuti</b> Evaluating the Effects of Central Everglades Planning Project Alternative Plans Using Performance Measures and Ecological Planning	<b>Peter Regier</b> Use of Biomarkers in Everglades Restoration
2:00pm	<b>Thomas J. Smith III</b> Patterns of Sediment Surface Elevation Change in the Southwest Coastal Everglades	<b>Lori Oberhofer</b> Monitoring Mercury Exposure in Nesting Wading Birds: Considerations for the Everglades Trophic Hypothesis	<b>Vanessa McDonough</b> Management of the Invasive Indo-Pacific Lionfish in Biscayne National Park	<b>Murika Davis</b> How Hydrologic Modeling and Ecological Criteria Inform Engineering Design of Restoration Project Features	<b>Joe Stachelek</b> Resolving Fine-Scale Patterning and Restoration Outcomes in the Coastal Everglades
2:15pm	<b>Stephen E. Davis</b> Effects of Increased Salinity and Inundation on Wetland Soil Carbon Dynamics at the Everglades Freshwater-Saltwater Ecotone	<b>Mark Cook</b> Movement and Habitat Use of Aquatic Fauna in Relation to Seasonal Hydrologic Variation: Implications for Wading Bird Prey Availability	<b>Caroline Herman</b> Methods for Detecting Patterns in Groundwater Flow into Biscayne Bay, FL	<b>James Vearil</b> How Modeling and Design Criteria Inform Operations Planning and Water Management Implementation	<b>Elise Morrison</b> The Use of Molecular Techniques to Assess Microbial Nutrient Status in the Everglades
2:30pm	<b>Martha Nungesser</b> How to Build a Bigger Florida Bay	<b>Jessica Klassen</b> Bridging the Gap Between Everglades Prey Production and Wading Bird Prey Selection	<b>Henry Briceño</b> Nutrient Thresholds Drive Phytoplankton Biomass Responses in South Florida Coastal and Estuarine Waters	<b>Gretchen Ehlinger</b> How Monitoring for Restoration Success Informs Water Management and Project Implementation	<b>Erik Tate-Boldt</b> Application of Synthetic Floc to Evaluate Sediment Transport in the Decompartmentalization Physical Model Project
2:45pm	<b>Marguerite Koch</b> Climate Change Projected Effects on Coastal Foundation Communities of the Greater Everglades using a 2060 Scenario: Need for a New Management Paradigm	<b>Joel Trexler</b> The Trophic Hypothesis: Long-Term Trends in Wading Bird Prey Species in the Freshwater Everglades	<b>Brian Carlstrom</b> Ecosystem Restoration and Management in Biscayne National Park	<b>Gina Paduano Ralph</b> How Monitoring for Endangered Species Informs Water Management and Project Implementation	<b>Matt Burgess</b> Applications of High-Resolution Aerial Imagery and a Small Unmanned Aircraft System in Everglades Science
3:00pm-3:20pm	PM Break in Poster Hall				

3:20pm-5:00pm	Concurrent Sessions				
Location	Great Cypress	Royal Poinciana	Ibis	Egret	Sandpiper
	Session 11	Session 12	Session 13	Session 14	Session 15
	<b>Climate Change, Sea Level Rise, and Natural Hazards</b>	<b>Aquatic Animals in Restoration</b>	<b>Carbon Storage and Release in Low Latitude Peatlands</b>	<b>Advances in Hydrology and Salinity Models for Greater Everglades Ecosystem Restoration</b>	<b>Performance Measures for Central Everglades Adaptive Management</b>
Moderator	G. Lynn Wingard	Jennifer Rehage	Xavier Comas, Matthew Warren & Brian Benscoter	Frank Marshall	Andrew LoSchiavo
3:20pm	Introduction	Introduction	Introduction	Introduction	Introduction
3:30pm	<b>Dennis Krohn</b> Progress in a Hindcast Simulation of the 1926 Great Miami Hurricane	<b>Ross Boucek</b> Photoperiod vs. Hydrology: Which Best Predicts Migrations of Temperate Freshwater Forage Species and Their Tropical Estuarine Predator in the Oligohaline Reaches of the Shark River?	<b>Steve Froelking</b> Modelling the Impacts of Land Use Change on Carbon Dynamics in Tropical Peatlands Using the Tropical Holocene Peat Model (HPMTROP)	<b>Jenifer Barnes</b> Calibration Activities for the South Florida Water Management Model (SFWMM a.k.a. 2x2 Model)	<b>Eric Bush</b> The Role of Ecological Thresholds in Adaptive Management
3:45pm	<b>Danielle Ogurcak</b> The Interaction of Pulse and Press Disturbances: Discerning the Effects of Sea Level Rise from Those of Storm Surge Flooding in Coastal Forests of the Lower Florida Keys, FL	<b>Jessica Lee</b> Drying Times: Survival of a Freshwater Mesoconsumer in a Coastal Refuge Habitat During Seasonal Drying	<b>Jorge Ramirez</b> Modeling Methane Ebullition from Peat Soils of the Florida Everglades	<b>Amy Cook</b> Recent Progress in the MIKE Marsh Model of Everglades National Park	<b>Paul Conrads</b> Real-time Evaluation of Hydrologic Performance Measures Specific to Central Everglades Planning Project (CEPP) Restoration Success
4:00pm	<b>Shimon Wdowinski</b> Mangrove Colonization Patterns and Rates Along the Coastal Everglades	<b>Durland Fish</b> Potential Response of Mosquito-Borne Viruses to Ecosystem Restoration in the Greater Everglades	<b>Barclay Shoemaker</b> Water, Energy and Carbon Cycling in Greater Everglades Forested Wetlands	<b>Yongshan Wan</b> Rapid Prediction of Estuarine Salinity for Everglades Ecosystem Restoration	<b>Andrew LoSchiavo</b> Soil Restoration Thresholds Specific to Central Everglades Planning Project Success
4:15pm	<b>G. Lynn Wingard</b> Interior Mud Flats of Florida Bay Islands: Records of Sea Level Rise, Storm History, and Island Formation	<b>Lawrence Glenn</b> The Distribution of Anurans in a Hydrologically Modified River Floodplain	<b>Frank Anderson</b> Net Ecosystem Exchanges of Carbon Dioxide and Methane from Sub-Tropical and Temperate Peatlands: A Comparison of Natural and Restored Wetland Systems	<b>Melinda Lohmann</b> BISECT Model Simulations for Evaluating Present, Past, and Future Conditions and Providing Input to Emerging Ecological Models	<b>James Herrin</b> Identifying Thresholds in Fish Community Dynamics and Composition in Response to Altered Hydroperiods in Everglades Marshes
4:30pm	<b>Hannah Cooper</b> Incorporating Uncertainty of Groundwater Modeling in Sea-Level Rise Assessment: A Case Study in South Florida	<b>Jennifer Rehage</b> Fish Dynamics at the Everglades Marsh-Mangrove Ecotone: Drydowns, Subsides, Coldsnows & the Link to Recreational Fisheries	<b>Michelle Budny</b> Impact of Willow Invasion on Water and Carbon Exchange in the Vegetation of a Subtropical Wetland	<b>Detong Sun</b> Three Dimensional Model Evaluation of Physical Alterations of the Caloosahatchee River Estuary: Impact on Salt Transport	<b>Laura Brandt</b> Crocodylian Ecological Thresholds Specific to Central Everglades Planning Project (CEPP)
4:45pm	<b>Jeremy May</b> Influence of Varying Environmental Conditions on Canopy Species Recruits from Four Everglades Plant Communities	<b>Discussion</b>	<b>Paul Glaser</b> Holocene Dynamics of the Florida Everglades with Respect to Climate, Dustfall, and Tropical Storms	<b>Erik Stabenau</b> An Improved Biscayne Bay Hydrodynamic Model for Evaluation of Restoration Efforts and the Effects of Groundwater on Salinity	<b>David Kaplan</b> Pattern and Process in the Everglades Ridge-Slough Landscape
5:00pm	<b>EVENING ON OWN</b>				

<b>WEDNESDAY</b>						<b>Wednesday, April 22, 2015</b>					
7:30am-5:00pm						Conference Registration Open in Grand Floridian Ballroom Foyer					
7:30am-8:30am						Morning Refreshments in Poster Hall					
8:30am-10:00am						Earth Day Plenary Session in Great Cypress & Royal Poinciana					
8:30am-10:00am						<p align="center"><b>Future Environmentalists from South Plantation High School Pay It Forward</b></p> <p align="center">Introduction: Nick Aumen, Regional Science Advisor - South Florida, United States Geological Survey</p> <p align="center"><i>Students from South Plantation High School's Environmental Science and Everglades Restoration Magnet Program will offer presentations, a Q &amp; A Panel Discussion, skits, a rap, and a musical entertainment piece, to demonstrate what Everglades restoration and environmental stewardship mean to them.</i></p>					
10:00am-10:20am						AM Break in Poster Hall					
10:20am-12noon						Concurrent Sessions					
Location		Great Cypress		Royal Poinciana		Ibis		Egret		Sandpiper	
		Session 16		Session 17		Session 18		Session 19		Session 20	
		Everglades Stormwater Treatment Areas		Flow-Pulse Drivers of Aquatic Ecosystem Restoration - Findings From the Decomp Physical Model		Construction Management Challenges of a Landscape-Scale Restoration Project (Picayune Strand Restoration Project)		Wetland Birds		Ecological Models & Tools Part I	
Moderator		Larry Gerry		Fred H. Sklar		Kim Dryden		Mathieu Basille		Stephanie Romañach	
10:20am		Introduction		Introduction		Introduction		Introduction		Introduction	
10:30am		<b>Delia Ivanoff</b> Historical Performance of the Stormwater Treatment Areas		<b>David T. Ho</b> Landscape-Scale Hydrologic Responses to a Flow Pulse Experiment		<b>Janet Starnes</b> Project Management Challenges on a Restoration Project Under Multiple Jurisdictions		<b>Michael Cheek</b> Interim Response of Wading Birds ( <i>pelecaniformes</i> and <i>ciconiformes</i> ) and Waterfowl ( <i>anseriformes</i> ) to the Kissimmee River Restoration Project, Florida, U.S.A.		<b>James Beerens &amp; Leonard Pearlstine</b> Hydrologic Forecast Modeling for Multi-Species Management	
10:45am		<b>Tom DeBusk</b> Effects of Limerock and Non-Farmed Muck Substrates on Stormwater Treatment Area Performance		<b>Jud Harvey</b> The Decompartmentalization Physical Model (DPM) Experiments: Testing the Restoration of Historic High Flows in a Disconnected Everglades		<b>Michael J. Duever</b> Restoring the Pre-Development Hydrologic Regime in the Picayune Strand Restoration Project Area		<b>Jennifer Chastant</b> Water Level Fluctuations Influence Wading Bird Prey Availability and Nesting in a Managed Lake Ecosystem			
11:00am		<b>Rupesh Bhomia</b> Stability of Sequestered Phosphorus in Stormwater Treatment Areas: Role of Dominant Vegetation		<b>Sue Newman</b> To Move or Not to Move - Water Quality and Sediment Entrainment Responses to Two Flow Events		<b>Maureen S. Bonness</b> Following the Bulldozers. Invasive Plant Control for the Picayune Strand Restoration Project		<b>Dale Gawlik</b> Factors Affecting the Abundance of Wading Birds in Intertidal Habitat: Are Freshwater Models Applicable?		<b>Craig Conzelmann</b> EverVIEW <i>lite</i> : The Next Generation of Modeling Visualization From the Joint Ecosystem Modeling Community	
11:15am		<b>Jeremy McBryan</b> Everglades Restoration Strategies: Optimizing the Performance of Stormwater Treatment Areas		<b>Laurel Larsen</b> Shear Stress Variability and Floc Redistribution During a Flow Release		<b>Dexter Sowell</b> State Forest Management on a Federal Habitat Restoration Project		<b>Anna Vecchione</b> Significance of Human Interaction and Interference on Osprey Populations in the Everglades		<b>Mark McKelvy</b> Supporting Decision-Making in the Greater Everglades and Beyond with the Everview Platform	
11:30am		<b>Larry Schwartz</b> Science Plan in Support of Everglades Restoration Strategies		<b>Colin Saunders</b> Restoring Sheetflow in a Ridge-Slough-Canal-and-Levee Landscape - A Synthesis of Tracers, Traps and Transport		<b>Daniel H. Slone</b> Manatees and the Picayune Strand Restoration Project		<b>Jason Bosley</b> Developing a Spatio-Temporal Occupancy Model for a Declining Nesting Population of Bald Eagles <i>haliaeetus leucocephalus</i> in Florida Bay, Everglades National Park		<b>Kevin Suir</b> Dynamic Web Tools for Modeling and Monitoring Data Visualization	
11:45am		<b>Walter Wilcox</b> Evolving Strategies for Stormwater Treatment Area (STA) Operational Management		<b>Mike Bush</b> Effects of Flow and Connectivity on Everglades Aquatic Consumers: Evaluating Three Hypotheses		<b>Grady H. Caulk</b> Protecting Cultural Resources on a Restoration Project and Adjacent Public Lands		<b>Mathieu Basille</b> Using Wood Stork Movement to Enhance Conservation Efforts		<b>Bo Zhang</b> Modeling the Dynamics of the Invasive Tree, <i>Melaleuca Quinquenervia</i> , in the Everglades, With and Without Biological Control	
12noon-1:00pm						Lunch Provided on Breeze's Terrace					

1:20pm-3:00pm	Concurrent Sessions				
Location	Great Cypress	Royal Poinciana	Ibis	Egret	Sandpiper
	Session 21	Session 22	Session 23	Session 24	Session 25
	<b>STAs &amp; EAA Water Quality</b>	<b>Everglades Hydrology, Peat Accretion and Loss: Effects on Carbon Exchange and Water Retention</b>	<b>Ecosystem Services and Everglades Restoration: Moving Forward with Case Studies and Tools that Integrate Ecosystem Services into Decision Making</b>	<b>Science and Habitat Management in the A.R.M. Loxahatchee National Wildlife Refuge: 13th Annual Loxahatchee Refuge Science Workshop</b>	<b>Ecological Models &amp; Tools Part II</b>
Moderator	Melodie Naja	Thomas Dreschel & Leonard Scinto	Kelly Keefe	Rebekah Gible	Stephanie Romañach
1:20pm	Introduction	Introduction	Introduction	Introduction	Introduction
1:30pm	<b>Sayena Faradmarandi</b> Phosphorus Loadings from the Everglades Agricultural Area	<b>Leonard Scinto</b> Soil Accretion on Constructed Everglades Tree Islands: Production and Decomposition Affected by Water Levels	<b>Annet Forkink</b> The Use of Ecosystem Services in Florida: A Cross-Perspective of Agencies	<b>Jeff Beauchamp</b> Trends in Relative Density and Body Condition of Alligators in the Everglades	<b>Brian Reichert</b> Network Modularity Reveals Critical Scales for Connectivity Conservation
1:45pm	<b>Jehangir Bhadha</b> Aquatic Vegetation and Its Role on Phosphorus Dynamics in the Everglades Agricultural Area	<b>Xavier Comas</b> Carbon Flux Variability in the Everglades Using Hydrogeophysical Methods	<b>Pallab Mozumder</b> Valuation of Ecosystem Services for Environmental Decision Making in South Florida	<b>Kyle Douglas-Mankin</b> Measurement and Modeling of Airboat Flow-Cut Hydraulics in the A.R.M. Loxahatchee National Wildlife Refuge	<b>Michelle Petersen</b> Gaining Insight From Restoration Scenario Evaluations With Wading Bird Nest Effort Models
2:00pm	<b>Hongying Zhao</b> STA-3/4 Periphyton-based Stormwater Treatment Area (PSTA) Cell Water and Total Phosphorus Budget Analyses	<b>Alan Wright</b> Soil Organic Matter Cycling in Everglades Peatlands	<b>Michael Sukop</b> Ecosystem Service Valuation and Hydro-Economic Optimization of South Florida Water Resources	<b>Margaret Hunter</b> <b>Efficacy of eDNA as an Early Detection and Rapid Response Indicator for Burmese Pythons in the Northern Greater Everglades Ecosystem and A.R.M. Loxahatchee National Wildlife Refuge</b>	<b>Hardin Waddle</b> Modeling the Occurrence of Everglades Amphibians as a Function of Hydrology and Habitat Type
2:15pm	<b>Maria Loinaz</b> Innovative Hydraulic Modeling Approaches Used During the Design of an Everglades Treatment Wetland	<b>Daniel Scheidt</b> Decadal Variation in Everglades Peat Soil at the Landscape Scale: Results of R-EMAP 1995-2014	<b>Kelly Keefe</b> Assessing the Value of the Central Everglades Planning Project (CEPP) in Everglades Restoration: An Ecosystem Services Approach	<b>James Lange</b> Effects of Aerial Herbicide Treatment of Melaleuca on Native Habitat Recovery in the Northern Everglades	<b>Simeon Yurek</b> Integrated Eco-Hydrological Modeling of Forage Fish Aimed at Supporting Management Decisions
2:30pm	<b>Patrick Keith</b> Design and Construction of a Flow Equalization Basin to Optimize Performance of Everglades Stormwater Treatment Areas	<b>Brian Bencoter</b> Understanding the Vulnerability of Everglades Peat Soils to Smoldering Combustion	<b>Christopher Kelble</b> NOAA's Integrated Ecosystem Assessments: Using Ecosystem Services to Improve Decision Making	<b>Robert McCleery</b> Meso-Mammal Communities of A.R.M. Loxahatchee National Wildlife Refuge as a Reference for the Greater Everglades Ecosystem	<b>Don DeAngelis</b> Modeling the Effects of Sea Level Rise and Storm Surge on Coastal Everglades Vegetation
2:45pm	<b>Larry Fink</b> Scoping-Level Evaluation of Everglades Water Quality Compliance Using a Central Flow-Way Hydrated With Lake Okeechobee Water	<b>Thomas Dreschel</b> Determining Historical and Recent Everglades Peat Quantities Using Geospatial Techniques	<b>Geoffrey Cook</b> Ecosystem Service Sustainability Across an Urbanization Gradient in Coastal South Florida	<b>Donatto Surratt</b> Spatial and Temporal Trends in Water Quality at the A.R.M. Loxahatchee National Wildlife Refuge: An Assessment of Long-Term Restoration	<b>Discussion</b>
3:00pm-5:00pm	<b>FORMAL POSTER NETWORKING SESSION IN POSTER HALL</b>				
5:00pm	<b>EVENING ON OWN</b>				

THURSDAY	Thursday, April 23, 2015				
7:30am-5:00pm	Conference Registration Open in Grand Floridian Ballroom Foyer				
7:30am-8:30am	Morning Refreshments in Poster Hall				
8:30am-10:00am	Closing Plenary Session in Great Cypress & Royal Poinciana				
8:30am-10:00am	<p align="center"><b>Science in Support of Everglades Restoration</b></p> <p align="center">Moderator: Nick Aumen, Regional Science Advisor - South Florida, United States Geological Survey</p> <p align="center"><b>Don Boesch</b>, President, Center for Environmental Science, University of Maryland <i>Institutional Scientific Challenges in Large-Scale Ecosystem Restoration</i></p> <p align="center"><b>Colin Polsky</b>, Director, Center for Environmental Studies, Florida Atlantic University <i>Using a Sustainability Science Frame to Advance Ecosystem Restoration</i></p>				
10:00am-10:20am	AM Break in Poster Hall				
10:20am-12noon	Concurrent Sessions				
Location	Great Cypress	Royal Poinciana	Ibis	Egret	Sandpiper
10:20am-12noon	Session 26	Session 27	Session 28	Session 29	Session 30
	Everglades Restoration Progress: Assessing Effects of Modified Water Deliveries on Northern Shark River Slough	Tree Island Ecology: Advances on Ecological Restoration	Mercury Cycling, Transport, and Effects in the Everglades	Coastal Marine Ecology	Organic Matter, Carbon Cycling, and Water Quality in the Greater Everglades Ecosystem
Moderator	David Rudnick & Robert Johnson	Carlos Coronado-Molina & Michael Ross	Forrest Dierberg, Andy Ogram & Paul Julian II	Paul Conrads	George Aiken
10:20am	Introduction	Introduction	Introduction	Introduction	Introduction
10:30am	<b>Robert Johnson</b> Restoring Flows to Northeast Shark River Slough, Everglades vis the Modified Water Deliveries Project, A 30 Year Odyssey	<b>Daniel Hughes</b> Tree Islands and the Last 5000 Years of Human Occupation	<b>Paul Julian II</b> An Overview of Everglades Mercury Issues: Critical Questions Remain	<b>Michael Kline</b> Variability in the Submerged Aquatic Vegetation Community Within the Northeastern Florida Bay Mangrove Ecotone Over Two Decades	<b>Rudolf Jaffe</b> Detailed Molecular Characterization of Dissolved Organic Matter From the Everglades: A Comparative Study Through the Analysis of Optical Properties, NMR and FTICR/MS
10:45am	<b>Jennifer Richards</b> Assessment of the Ecological Status and Trends of Northeastern Shark River Slough	<b>Carlos Coronado-Molina</b> Litterfall and Tree Growth Dynamics in a Pristine Tree Island and a Degraded Tree Island in WCA-3A: The Importance of Ecological Functions on Tree Islands	<b>David Krabbenhoft</b> Mercury Contamination of the Everglades: Revelations from the Long-Term ACME Project and Future Considerations	<b>Yini Shangguan</b> Phytoplankton Response to Changing Nutrients from Comprehensive Everglades Restoration Plan: Comparison of Two Coastal Lagoon Systems in Northern Florida Bay, USA	<b>Brian Bergamaschi</b> Export of Dissolved Organic Carbon from the Everglades to Coastal Waters
11:00am	<b>Joffre Castro</b> Spatial Patterns of Phosphorus Enrichment in Northern Shark River Slough	<b>Susana Stoffella</b> Did Flooding Kill the Ghost Tree Islands? Evidence From Healthy Everglades Tree Islands and the LILA Experiment Platform	<b>Guangliang Liu</b> Distribution of Mercury in Ecosystem Components in the Everglades: A Mass Budget Perspective	<b>Hongqing Wang</b> Predicting the Responses of Eastern Oyster Population to River Diversion and Sea-Level Rise	<b>Brett Poulin</b> The Influences of Sulfate Reduction on the Chemistry of Organic Matter in the Everglades
11:15am	<b>Daniel Gann</b> Mapping Vegetation and Vegetation Change Patterns in Northern Shark River Slough from Remotely Sensed Data	<b>Tiffany Troxler</b> Integrating Tree Island Metrics to Understand Potential Mechanisms for Past Degradation and Future Restoration	<b>Andy Ogram</b> Molecular Microbial Ecology of Mercury Methylation in the Everglades Soil Ecosystem	<b>Kang-Ren Jin</b> An Integrated Environmental Model for a Constructed Wetland: Water Quality Processes	<b>Brendan Buskirk</b> Fire and Flood: Response of Organic Matter to Extreme Events in the DPM Footprint
11:30am	<b>Eric Sokol</b> Influences of Changing Hydrologic Conditions on Food Web Patterns Near the Boundaries of Everglades National Park	<b>Pamela Sullivan</b> Hydrogeochemical Response of Experimental Everglades Tree Islands: Identifying Feedback Mechanisms Associated with Early Tree Growth and Differing Geologic Materials	<b>Binhe Gu</b> Spatial and Temporal Variations of Total Mercury in Mosquitofish from Everglades Marshes	<b>Laurel Collins</b> Mathematical Analysis of the Influence of Naturally Occurring vs. Anthropogenic Events on Water Quality in Florida Bay	<b>Joshua Breithaupt</b> Quantifying the Relative Contributions Made by Organic Matter and Mineral Sediment to Accretion Rates in the Coastal Everglades
11:45am	<b>Tylan Dean</b> Expectations for Cape Sable Seaside Sparrow Habitat Suitability and Subpopulation Viability with Modified Water Deliveries	<b>Michael Ross</b> Meta-Community Structure of South Florida Hardwood Hammocks: Implications for Species Responses to Climate Change	<b>Forrest Dierberg</b> Community-Related Trophic Variability Contributes to Variations in Mosquitofish ( <i>Gambusia holbrooki</i> ) Mercury Concentrations in Water Conservation Area 2A	<b>Paul Conrads</b> Development of a Coastal Drought Index Using Salinity Data	<b>Bob Sobczak</b> Restoration Rally Cry for the Big Cypress Swamp
12noon-1:00pm	Lunch Provided on Breeze's Terrace				

1:20pm-3:00pm	Concurrent Sessions				
Location	Great Cypress	Royal Poinciana	Ibis	Egret	Sandpiper
	Session 31	Session 32	Session 33	Session 34	Session 35
	<b>Sulfur in the Greater Everglades Ecosystem – Sources, Cycling, Fate, Biogeochemistry, and Impacts</b>	<b>Modeling the Incremental Value of Restored Flow to Everglades Ecology</b>	<b>Invasive Species Monitoring</b>	<b>Florida Bay Restoration: Ecosystem Status, Trends, and Responses</b>	<b>Biogeochemistry</b>
Moderator	William Orem	Jud Harvey	Tony Pernas	Stacie Auvenshine	Mark Shafer
1:20pm	Introduction	Introduction	Introduction	Introduction	Introduction
1:30pm	<b>William Orem</b> Sulfur in the Everglades - An Overview	<b>Thomas Van Lent</b> Restoration Directions: Science Informing the Process	<b>Michael Rochford</b> Everglades Invasive Reptile and Amphibian Monitoring Program (EIRAMP)	<b>Margaret Hall</b> Long Term Changes in Seagrass Distribution and Abundance in Florida Bay	<b>Hilary Flower</b> Control of Phosphate Concentration Through Adsorption and Desorption Processes in Shallow Groundwater of Coastal Everglades
1:45pm	<b>Curt Pollman</b> The Role of Sulfate as a Driver of Mercury Methylation in the Everglades - What Does Statistics Really Have to Say?	<b>Fred Sklar</b> Back To The Future: A Landscape Scale Response to Restoration	<b>Jennifer Ketterlin Eckles</b> Interagency Monitoring and Assessment Efforts for the Argentine Black and White Tegu in the Southeastern Everglades	<b>Lindsey Visser</b> Juvenile Sportfish Monitoring in Florida Bay, Everglades National Park	<b>Mark Shafer</b> Ecological Risk Assessment of CERP Aquifer Storage and Recovery
2:00pm	<b>Mike Jerauld</b> Geochemical Response to Aqueous Sulfate Additions in an Oligotrophic Everglades Marsh	<b>Evelyn Gaiser</b> Periphyton Responses to Flow Restoration: Distribution, Community Composition, and Edibility	<b>Michael Avery</b> Applying Wildlife Genetics to Invasive Wildlife Management in the Florida Everglades	<b>Tom Frankovich</b> Predicting Changes in Estuarine SAV Distribution from Increased Freshwater Delivery	<b>Michael Waldon</b> Frequency Distribution of Surface Water Total Phosphorus in the Loxahatchee Refuge: Similarity and Implications for Dynamic Models
2:15pm	<b>Peter Kalla</b> Everglades REMAP 2013/2014: Sulfur and Related Findings for Mercury	<b>Jay Choi</b> Modeling Restoration Outcomes for the Everglades Ridge-Slough Landscape	<b>Joseph Parkos</b> Implications of Movement Behavior and Local Density on Nonnative Fish Detection in Everglades Restoration Assessments	<b>Theresa Strazisar</b> A Population Approach to Understanding Mechanisms Controlling the Submerged Aquatic Vegetation Species <i>Ruppia maritima</i> L. (widgeongrass) at the Everglades-Florida Bay Ecotone	<b>Nicholas Schulte</b> Environmental Variance and Dispersal Explain Benthic Diatom Spatial and Temporal Beta Diversity in the Florida Everglades
2:30pm	<b>Matthew Varonka</b> Sulfur and Mercury Modeling in the Everglades	<b>Carl Fitz</b> Soil Oxidation and Phosphorus Storage Changes Resulting from a Range of Restoration Options	<b>Melissa Smith</b> Biological Control Releases on <i>Lygodium microphyllum</i> in Cape Sable Wilderness Area, Everglades National Park: CERP Implementation and Monitoring for Success	<b>David Rudnick</b> An Overview of C-111 Spreader Canal Western Project Implementation and Restoration Progress	<b>Yong Cai</b> Evaluation of the Possible Sources and Controlling Factors of Toxic Metals in the Florida Everglades and Their Potential Risk of Exposure
2:45pm	<b>Eduardo Patino</b> Continuous Monitoring of Mercury in Everglades National Park	<b>Christa Zweig</b> Deviations From a Theme: Peat Patterning In Sub-Tropical Landscapes	<b>Tony Pernas</b> Balancing Accuracy and Precision for Monitoring Exotic Plant Management at the Landscape Scale	<b>Michelle Robinson</b> Initial Monitoring Results of Ecosystem Response to the C-111 Spreader Canal Western Phase in Northeastern Florida Bay	<b>Discussion</b>
3:00pm-3:20pm	<b>PM Break in Poster Hall (Poster presenters are to remove displays by 5pm.)</b>				

3:20pm-5:00pm	Concurrent Sessions				
Location	Great Cypress	Royal Poinciana	Ibis	Egret	Sandpiper
	Session 36	Session 37	Session 38	Session 39	Session 40
	Multi-Decadal to Millennial-Scale Proxy Records of Sea-Level Rise and Climate Change	Restoration Planning and Decision-Making	Enzymes: Functions and Use as Indicators of Change in Everglades Systems	Invasive Species	Hydrology
Moderator	Christopher Bernhardt & G. Lynn Wingard	John Volin	Patrick Inglett	Dean Monette	David Sumner
3:20pm	Introduction	Introduction	Introduction	Introduction	Introduction
3:30pm	<b>Miriam Jones</b> Impact of Sea-Level Rise on Everglades Carbon Storage Capacity: Shift From Terrestrial to Blue Carbon Sink	<b>Agnes McLean</b> Testing a New Natural System Model for Use in South Florida Ecosystem Restoration	<b>Xiaolin Liao</b> Multiple Enzyme Systems and Their Effectiveness as Indicators of Everglades Restoration	<b>Lindsey Garner</b> Seasonal and Daily Activity Patterns of Argentine Black and White Tegus	<b>Subodh Acharya</b> Simulating the Effects of Ridge Elevation and Geometry on Ridge-Slough Landscape Hydrology: How Much Water Do We Need?
3:45pm	<b>Lauren Toth</b> Development and Demise of Florida's Coral Reefs: the Roles of Climate, Sea Level, and Regional Hydrology	<b>Mahadev Bhat</b> Pricing the Carbon Right: The Case of the Everglades Mangroves	<b>Krish Jayachandran</b> Phosphatases Enzymes Activity in Phosphorus Rich Everglades Tree Islands Ecosystem	<b>Michelle McEachern</b> Brumation of Black and White Tegus ( <i>Tupinambis merianae</i> ) in Southern Florida	<b>Kevin Kotun</b> Water Management and Hydrology of Northeast Shark River Slough from 1940 to 2015
4:00pm	<b>Peter Swart</b> Large Corals in Florida Bay: Faithful Recorders of the Environmental Conditions Over the Past 200 Years	<b>Jed Redwine</b> The Natural Resource Condition Assessments of Everglades National Park and Big Cypress National Preserve	<b>Patrick Inglett</b> Nitrogenase Activity as an Indicator of Everglades Impact and Restoration	<b>Bryan Falk</b> Are Burmese Pythons in Florida Getting Skinnier?	<b>Stephanie Long</b> Modeling the Hydrodynamic and Water Quality Impacts of Proposed Tamiami Trail Bridge Construction Using the M3ENP Numerical Model
4:15pm	<b>Anna Wachnicka</b> Responses of the South Florida Coastal and Estuarine Ecosystems to Climate Variability, Sea Level Rise and Extreme Weather Events over the Last 4600 Years	<b>Stephanie Johnson</b> Reflections on 15 Years of NRC Independent Scientific Review of Everglades Restoration	<b>Christine VanZomeren</b> Soil Organic Nitrogen Mineralization and Enzyme Activities as Indicators of Nutrient Impacts in the Florida Everglades	<b>Corey Callaghan</b> Diet and Selectivity of the Purple Swamphen in South Florida	<b>Amanda Booth</b> Flow Monitoring Along U.S. 41 between County Road 92 and State Road 29, in Southwest Florida, 2007–2010
4:30pm	<b>Christopher Smith</b> Using Recent Hurricanes and Associated Event Layers to Evaluate Regional Storm Impacts on Estuarine-Wetland Systems	<b>Paul Wetzel</b> Connecting Science and Policy in Ecosystem Restoration	<b>Kanika Inglett</b> Temperature Sensitivity of Hydrolytic Enzymes: Application to Decomposition and Greenhouse Gas Emissions	<b>Marc Hughes</b> Redbay and Laurel Wilt: The Search for Resistant Trees	<b>Michael Wacker</b> Quantifying Evaporation Rates from Lake Okeechobee, Florida
4:45pm	<b>Terrence McCloskey</b> Using OGPs to Establish Long-Term Tropical Cyclone Landfall Records and Elucidate the Mid-to-Late Holocene Climatic History of the Northern Gulf Coast	<b>John Volin</b> Digital Visualization as a Tool to Bridge Science and Policy: Examining the Long-Term Effects of Phosphorus on the Everglades Ridge Slough Landscape	<b>Shelby Servais</b> Effects of Increased Salinity and Inundation on Microbial Processing of Carbon and Nutrients in Oligohaline Wetland Soils	<b>Dean Monette</b> Vegetation Community Relationships with <i>Pomacea paludosa</i> and <i>Pomacea maculata</i> in Lake Okeechobee, Florida, United States	<b>David Sumner</b> Hydroperiod Approach for a Non-Flat World
5:00pm	Conference Concludes				