

Exhibitors and Contributing Partners

- EDEN
- Everglades Memorial
- Hach Environmental
- Joint Ecosystem Modeling (JEM)
- National Park Service
- PBS&J
- South Florida Water Management District (SFWMD)
- University of Florida/IFAS, Soil and Water Science Department
- US Army Corps of Engineers
- US Department of the Interior
- US Fish & Wildlife Service
- US Geological Survey
- YSI, Inc. / SonTek / AMJ Environmental

GEER 2008: Greater Everglades Ecosystem Restoration



Planning, Policy and Science Meeting

FOR EVERGLADES RESTORATION 2050 –
ADVANCING THE SCIENCE TO ACHIEVE SUCCESS

July 28 – August 1 • Naples, Florida

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WELCOME TO GEER 2008: The Greater Everglades Ecosystem Restoration Planning, Policy and Science Meeting

MONDAY		MONDAY — JULY 28, 2008	
8:00	Registration Opens & Exhibitors and Poster Session I Displays Move-in (Orchid Ballroom)		
8:00-9:30	MORNING REFRESHMENTS IN POSTER & EXHIBIT DISPLAY AREA		
	ATLSS Ecological Modeling Training Session - Part I	Symposium on Biogeochemistry and Contaminants	
	<i>Banyan I-II</i>	<i>Royal Palm I-II</i>	
	MODERATOR: Don DeAngelis	MODERATOR: Ramesh Reddy	
9:30-9:50	Donald DeAngelis - Current Status of Across-Trophic-Level System Simulation (ATLSS) for the Wetland Systems of South Florida	K. Ramesh Reddy & G. Ronnie Best - Biogeochemistry and Water Quality of the Greater Everglades: Fate and Transport of Nutrients and Other Contaminants - Symposium Overview	
9:50 -10:30	Eric Carr - The Role of ATLSS High Resolution Hydrology (HRH) Models in SFWMM Scenario Evaluations	Nicholas Aumen - Introduction and Overview of Biogeochemistry and Water Quality of the Greater Everglades	
10:30-10:50	Jon Cline - Application of a Multi-Modeling Framework to Linking Ecosystem Pattern and Process Across Scales: Implementation of a Decision Support Tool for Adaptive Ecosystem Management in the Everglades Mangrove Zone	Curt Pollman - Atmospheric Deposition of Nutrients and Contaminants	
10:50-11:10	Eric Carr - Next Generation ATLSS Models for Everglades Restoration: Incorporating Variable Meshes	Willie Harris - Mineral Weathering as Related to Biogeochemical Processes in the Everglades	
11:10-11:30		Paul McCormick -The Contrasting Mineral Chemistry of the Predrainage and Managed Everglades: Hydrologic Basis and Biogeochemical Significance	
11:30-11:50		John Jones - Progress and Prospects for Monitoring Landscape-Scale Patterns of Everglades Vegetation from Satellite and Airborne Imagery	
11:50-12:10		Evelyn Gaiser - Landscape Patterns in Everglades Periphyton	
12:10-12:30		Todd Osborne - Landscape Scale Patterns of Significant Nutrients and Contaminants in the Greater Everglades Ecosystem: Past, Present and Future	
12:30-1:20	LUNCH ON OWN		
	ATLSS Ecological Modeling Training Session - Part II	Symposium on Biogeochemistry and Contaminants	
	<i>Banyan I-II</i>	<i>Royal Palm I-II</i>	
	MODERATOR: Don DeAngelis	MODERATOR: Marguerite S. Koch	
	Introduction and Overview	Introduction and Overview	
1:20-1:40	Steve Hartley - Introduction to ATLSS Data Visualization System	K. Ramesh Reddy - Phosphorus Biogeochemistry of the Everglades Ecosystem	
1:40-2:00	PART II entails a short training course in the use of the ATLSS Data Viewer. This workshop will be of interest to agency staff members who are responsible for producing and evaluating model output relevant to ATLSS models and what they do.	Patrick Inglett - Nitrogen Cycling Across the Everglades Landscape: Processes, Patterns, and Implications for Restoration	
2:00-2:20	NOTE: Participants must bring their own laptop that already has ArcGIS9.2 (service pack 4) and Spatial Analyst loaded.	George Aiken - Dissolved Organic Matter in the Everglades: Implications for Ecosystem Restoration	
2:20-2:40		William Orem - Sulfate Contamination of the Everglades Ecosystem: Review of ACME Findings 1995-2008	
2:40-3:00		David Krabbenhoft - A Review of Mercury Research and Monitoring Activities in the Everglades, 1995 to 2008	
3:00-3:20	REFRESHMENT BREAK IN POSTER AND EXHIBIT DISPLAY AREA		

MONDAY		MONDAY — JULY 28, 2008 (continued)	
	ATLSS Ecological Modeling Training Session - Part II (continued)	Symposium on Biogeochemistry and Contaminants (continued)	
	<i>Banyan I-II</i>	<i>Royal Palm I-II</i>	
	MODERATOR: Don DeAngelis	MODERATOR: Sue Newman	
3:20-3:40	Steve Hartley - Introduction to ATLSS Data Visualization System	Tham Hoang - Bioavailability of Copper in Flooded Agricultural Soils and Toxicity to the Florida Apple Snail (<i>Pomacea Paludosa</i>)	
3:40-4:00	CONTINUATION OF PART II which entails a short training course in the use of the ATLSS Data Viewer.	Youhei Yamashita -Characterizing the Interactions between Trace Metal and Dissolved Organic Matter from the Florida Coastal Everglades	
4:00-4:20	NOTE: Participants must bring their own laptop that already has ArcGIS9.2 (service pack 4) and Spatial Analyst loaded.	John Carriger - Aquatic Risk Assessment of Pesticides in Surface Waters in and Adjacent to Everglades and Biscayne National Parks	
4:20-4:40		Gary Rand - Aquatic Probabilistic Ecological Risk Assessment of Endosulfan in South Florida	
4:40-5:00		Andrew Ogram - Linking Nutrient Impacts on Microbial Community Structure and Function with Biogeochemistry in the Everglades	
5:00-5:20		Joel Trexler - Effects of Phosphorus Availability on Aquatic Food Webs and Community Structure in the Everglades	
5:30-7:00	EARLY BIRD NETWORKING SOCIAL (Vista Room – Lobby Level)		
TUESDAY		TUESDAY — JULY 29, 2008	
7:00-8:00	MORNING REFRESHMENTS IN POSTER & EXHIBIT DISPLAY AREA		
8:00-12:00	CONCURRENT WORKSHOPS		
	SFWMD Regional Hydrologic Models 101	Symposium on Biogeochemistry and Contaminants	
	<i>Royal Palm III</i>	<i>Royal Palm I-II</i>	
	MODERATOR: Jayantha Obeysekera	MODERATOR: James Jawitz	
8:00-8:20	WORKSHOP DESCRIPTION: This workshop will provide an update on the status of and emerging plans for the South Florida Water Management Model (SFWMM, 2x2 Model) and the Regional Simulation Model (RSM).	Laurel Larsen - Role of Flow and Transport Processes in Ridge/Slough/Tree Island Pattern Dynamics	
8:20-8:40		Kang-Ren Jin - Importance of Hurricane Impacts in a Shallow Lake	
8:40-9:00		Matthew Cohen - Indirect Effects of Hydrology and Hydroperiod on Water Quality in the Greater Everglades	
9:00-9:20		Gregory Noe - Biogeochemical Transformations and Transport Related to Flow in the Ridge and Slough Landscape	
9:20-9:40		James Jawitz - Mechanistic Biogeochemical Model Applications in the Florida Everglades	
9:40-10:00		Joyce Zhang - Long-term Water Quality Trends and BMPs in the Lake Okeechobee Watershed, Florida	
10:00-10:20	REFRESHMENT BREAK IN POSTER AND EXHIBIT DISPLAY AREA		
	CERP 101	Symposium on Biogeochemistry and Contaminants	
	<i>Royal Palm VI-VII</i>	<i>Royal Palm I-II</i>	
	MODERATOR: Larry Gerry	MODERATOR: Len Scinto	
10:20-10:40	WORKSHOP DESCRIPTION: This workshop will provide a review of the history of drainage and water management in South Florida and a review of the unintended consequences resulting from urban and agricultural development in the region. An overview of the more than 40 major projects and 68 project components will be presented. A summary of CERP implementation progress to date will be presented along with challenges and lessons learned during implementation.	Jayantha Obeysekera - Hydrologic and Hydrodynamic Modeling	
10:40-11:00		Carl Fitz - Integrated Ecological Modeling and Decision Analysis within the Everglades Landscape	
11:00-11:20		R. Thomas James - Water Quality Trends of the Kissimmee Chain of Lakes, Lake Istokpoga and Lake Okeechobee, Current and Future Management Challenges	
11:20-11:40		Samira Daroub - Long-term Water Quality Trends and BMPs in the Everglades Agricultural Area	
11:40-12:00		Delia Ivanoff - Biogeochemical Factors Influencing Phosphorus Retention in the Everglades Stormwater Treatment Area Wetlands	

TUESDAY — JULY 29, 2008 (continued)						
12:00-1:30	LUNCH ON OWN					
1:30-3:00	Opening Plenary Session (Royal Palm IV-V)					
	<p>Moderators: K. Ramesh Reddy and G. Ronnie Best, GEER 2008 Co-Chairs</p> <p>Featured Keynote Presentations:</p> <p>Lynn Scarlett, Deputy Secretary of the Department of the Interior “Planning, Policy & Science for Large Scale Ecosystem Restoration: The Everglades Example”</p> <p>Mark D. Myers, Director, U.S. Geological Survey, “Facing Tomorrow’s Challenges: The Everglades Living Laboratory”</p>					
3:00-3:30	REFRESHMENT BREAK IN POSTER AND EXHIBIT DISPLAY AREA					
3:30-5:20	CONCURRENT WORKSHOPS					
	Information Systems	Symposium on Biogeochemistry & Contaminants	Landscape Dynamics	Predicting Restoration through Numerical Modeling	Tree Island Ecology	Coastal and Mangrove Ecosystems
	<i>Royal Palm IV-V</i>	<i>Royal Palm I-II</i>	<i>Royal Palm III</i>	<i>Royal Palm VI</i>	<i>Royal Palm VII</i>	<i>Royal Palm VIII</i>
	Moderator: Heather Henkel	Moderator: Paul McCormick	Moderator: Todd Osborne	Moderator: Eric Swain	Moderator: Jay Jayachandran	Moderator: Kristen Hart
3:30-3:40	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
3:40-4:00	Robert Sobczak Staying in Tune with South Florida’s Water Cycle for Scientists, Managers, and Policy Makers in Five Minutes per Week	Sabine Grunwald Landscape Models for Spatial Upscaling of Biogeochemical Parameters	Lee Florea Stable Isotope Geochemistry of Shallow Groundwater beneath a Hardwood Hammock and Surface Water in an Adjoining Slough in Everglades National Park	Melinda Lohmann USGS Modeling Efforts in South Florida and Application to Regional Management	John Volin Release from Natural Enemies Belowground Helps Explains the Invasiveness of <i>Lygodium microphyllum</i> in Florida: A Cross-continental Comparison	Joan Browder Epifauna Community of Nearshore South Biscayne Bay: Past, Present, and Future
4:00-4:20	Michele Maierhofer Comprehensive Everglades Restoration Plan Model Management System (CERP MMS)	Victor Rivera-Monroy The Role of the Mangrove Ecotone Region in Regulating Nutrient Cycling and Wetland Productivity in South Florida	Cheng-Feng Tsai Application of HYMAN Model to Evaluate Water and Salt Budgets in Shark River Estuary	Michael Kohler Evaluation of CERP Restoration Scenario Simulations with Linked Regional, Coastal, Hydrodynamic, and Trophic Models	Sharon Ewe Ecophysiology of Tree Islands in Water Conservation Area 3	Christopher Williams Benthic Foraminiferal Assemblages in Biscayne Bay: Implications of Natural and Anthropogenic Change in South Florida Marine and Marine-Margin Ecosystems
4:20-4:40	Peter Besrutschko GIS Data Acquisition and Visualization in a 3D World for regional Water Quality and Hazardous Waste Screening	Fred Sklar A Review of our Understanding of the Biogeochemical Processes on Tree Islands in the Greater Everglades	James Snyder Restoration of Disturbed Pond-Cypress Savannas	Dawn James Numerical Model Optimization of Surface-Water Inflows to Achieve Restoration Salinity Performance Measures	Christopher Bernhardt Palynological Evidence of Anthropogenic Activity on Tree Islands	James B. Murray Resilience to Salinity Changes of the Non Native Freshwater Snail <i>Melanooides tuberculatus</i>
4:40-5:00	Heather Kostura CERPZone	Sue Newman Water Conservation Area 1- A Case Study of Hydrology, Nutrient and Mineral Influences on Biogeochemical Processes	Michael Duever Hydrologic Impacts and Restoration in the Fakahatchee Strand of Southwest Florida	Catherine Langtimm Integrated Manatee/ Hydrology Models: Synergistic and Predictive Advances Arising from a Charismatic Indicator Species	Joseph Smoak Ecological Shifts on an Everglades Tree Island Over the last 100 Years	Edwin Brown Estimating Nutrient Loads in the Caloosahatchee and St. Lucie Estuaries for CERP Projects
5:00-5:20	Heather Kostura Implementing the South Florida Gazetteer to Support Restoration Information Retrieval		Walter Wilcox Everglades Rainfall Driven Operations: The Evolution of a New Paradigm for Operating the South Florida System	Eric Carr The Role of ATLSS High Resolution Hydrology (HRH) Models in SFWMM Scenario Evaluations	John Meeder Ground Water Control of Tree Island Origin, Genesis and Destruction	
5:20-7:30	INTERACTIVE POSTER SESSION & NETWORKING					

WEDNESDAY — JULY 30, 2008						
7:30-8:30	MORNING REFRESHMENTS IN POSTER & EXHIBIT DISPLAY AREA					
8:30-10:00	Plenary Session (Royal Palm IV-V)					
	<p align="center">ECOSYSTEM RESTORATION AND CLIMATE CHANGE</p> <p align="center">MODERATOR: Leonard Berry</p> <p align="center">Amy Clement, Associate Professor, University of Miami, "Global Climate Change, Sea Level Rise and Implications for South Florida"</p> <p align="center">Dan Kimball, Superintendent, Everglades and Dry Tortugas National Parks, "Climate Change, Sea Level Rise and Natural Resource Challenges in South Florida"</p> <p align="center">Chuck Collins, South Regional Director, Fish and Wildlife Conservation Commission, "Florida's Wildlife: On the Frontline of Climate Change"</p>					
10:00-10:30	REFRESHMENT BREAK IN POSTER AND EXHIBIT DISPLAY AREA					
10:30-12:20	CONCURRENT WORKSHOPS					
	Climate Change Workshop	Symposium on Biogeochemistry & Contaminants	System-wide Assessment of South Florida Ecosystems - Part I	Predicting Restoration through Numerical Modeling	A.R.M. Loxahatchee NWR Science Workshop - LILA	Coastal and Mangrove Ecosystems
	<i>Royal Palm IV-V</i>	<i>Royal Palm I-II</i>	<i>Royal Palm III</i>	<i>Royal Palm VI</i>	<i>Royal Palm VII</i>	<i>Royal Palm VIII</i>
	Moderator: Jayantha Obeysekera	Moderator: Patrick Inglett	Moderator: Patti Sime	Moderator: Eric Swain	Moderator: Cindy Fury	Moderator: Mark Clark
10:30-10:40	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
10:40-11:00	Glenn Landers Climate Change Concerns for Everglades Restoration Planning	Patrick Bohlen Nutrient Storage and Transport Processes on Ranchlands in the Northern Everglades: Consequences for Greater Everglades Ecosystem Restoration	Matt Harwell What Managers Need to Know About System-wide Science to Improve Restoration Planning and Maximize Adaptive Management	Jeremy Decker Hydrologic Modeling of South Florida Environmental Parameters and Application to Ecology, Salinity, and Heat Transport	Paul Wetzel Restoring Tree Islands in the Everglades: Experimental Studies of Tree Seedling Survival and Growth	James Fourqurean Long-term Shifts in Seagrass Community Structure Follow Experimental Nutrient Enrichment in Florida Bay
11:00-11:20	Michael Zygnerski & Chris Langevin Effects of Sea-Level Rise on Saltwater Intrusion in Northern Broward County, Florida	Marguerite Koch Phosphorus Cycling in Florida Bay: A Synthesis		Kiren Bahm Development of an Interface Between the South Florida Water Management Model and a Fine-Resolution Hydrology Model of Everglades National Park	Susana Stoffella Tree Growth, Survival and Biomass in LILA Tree Islands	Thomas Frankovich Spatio-Temporal Dynamics of SAV Abundance and Water Quality in the Mangrove Lakes Region of Florida Bay
11:20-11:40	Peter Harlem Sea Level Rise in Miami-Dade County Florida, Implications for Management of Coastal Wetlands and the Everglades	Lauren Serra The Hole-in-the-Donut Wetland Restoration Project	Aswani Voley Eastern Oysters (<i>Crassostrea virginica</i>) as an Indicator for Restoration of Everglades Ecosystems	Eric Carr Next Generation ATLSS Models for Everglades Restoration: Incorporating Variable Meshes	Samantha Lantz The Effects of Vegetation and Water Depth on Wading Bird Foraging Site Selection and Foraging Success in the Everglades	Brian Keller Everglades Restoration and the Florida Keys National Marine Sanctuary: Monitoring for Possible Ecosystem Effects
11:40-12:00	Lisa Beever The Southwest Florida Feasibility Study and Climate Change	Stuart Muller A Spatially-Distributed Phosphorus Water-Quality Model for the Linked Surface-Water/Groundwater Variable-Density Hydrology of the Southern Everglades	Bjorn Tunberg Ecological Disturbances in the St. Lucie Estuary and the Southern Indian River Lagoon, Eastern Florida, Elucidated Through Macrobenthic Monitoring	Frank Marshall Development of a Consensus Reconstruction of the Pre-drainage Everglades Hydrology and Florida Bay Salinity Using Paleocological Information from Multiple Sediment Cores Coupled With Statistical Models	Pamela Sullivan Seasonal Variations in Tree Island Hydrology at Loxahatchee Impound Landscape Assessment (LILA)	Tom Gallo St. Lucie Estuary: Analysis of Annual Cycles and Integrated Water Column Productivity
12:00-12:20	Leonard Pearlstine Florida Bay Estuarine Habitat Suitability Assessments of Restoration and Sea-Level Rise Interactions		Albrey Arrington Assessing Large-Scale Spatial Distribution of Seagrasses in the Loxahatchee River	Robert Fennema Hydrology of the Everglades, Past and Present		Darrell Herbert Influences of Phosphorus and Salinity on Productivity and Demography of <i>Thalassia testudinum</i> across Florida Bay

WEDNESDAY	WEDNESDAY — JULY 30, 2008 (continued)					
12:20-1:30	LUNCH PROVIDED IN PRE-FUNCTION & POSTER DISPLAY AREA					
1:30-3:00	CONCURRENT WORKSHOPS					
	Climate Change Workshop	Symposium on Biogeochemistry & Contaminants	System-wide Assessment of South Florida Ecosystems - Part II	Geospatial Approaches (Royal Palm VI)	A.R.M. Loxahatchee NWR Science Workshop - Hydrology	Coastal and Mangrove Ecosystems
	<i>Royal Palm IV-V</i>	<i>Royal Palm I-II</i>	<i>Royal Palm III</i>	<i>Royal Palm VI</i>	<i>Royal Palm VII</i>	<i>Royal Palm VIII</i>
	Moderator: Glenn Landers	Moderator: Nick Aumen	Moderator: Greg Graves	Moderator: Carol Mitchell	Moderator: Matt Harwell	Moderator: Carlos Coronado
1:30-1:40	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
1:40-2:00	Jayantha Obeysekera Climate Change: Vulnerability Assessment and Modeling Scenarios for Water Resources Management in South Florida	Symposium on Biogeochemistry & Contaminants: Panel Discussion and Next Steps	Gregory Graves The Key to System-Wide South Florida Restoration: Lake Okeechobee	William Labiosa An Ecological Value Model for Use in a Land Use Planning Web Tool, Applied to Miami-Dade County	Michael Waldon Comparison of the South Florida Water Management Model (SFWMM) with a Simple Refuge Stage Model (SRSM) for the A.R.M. Loxahatchee National Wildlife Refuge	Stephen Davis Spatial and Temporal Nutrient Dynamics in the Mangrove Ecotone of Taylor River, Florida
2:00-2:20	Frank Marshall An Initial Evaluation of the Effect of Sea Level Rise on Salinity in Florida Bay Using Statistical Methods and Models		Richard Bernknopf A Spatial Hedonic Pricing Model for Miami-Dade, Florida: Using Econometrics and Geographic Information Systems for Property Valuation	Chunfang Chen Spatially-explicit Hydrodynamic and Water Quality Modeling of the A.R.M. Loxahatchee National Wildlife Refuge: Part I - Model Setup	Vic Engel Long-term Impacts of Hurricane Wilma on Land Surface-Atmosphere Exchanges	
2:20-2:40	Eric Swain Numerical Model Development to Address the Effects of Climate Change on Coastal Hydrology and Ecology in Southern Florida		Michael Ross Assessing Several Vegetation Indicators of Everglades Water Management	John Jones Leveraging Highly Accurate Elevation, Field, and Remotely Sensed Image Data to Enhance Digital Elevation Models for Subregions of the Everglades	Ehab Meselhe Spatially-explicit Hydrodynamic and Water Quality Modeling of the A.R.M. Loxahatchee National Wildlife Refuge: Part II - Model Application	Donna Devlin Are There Local Differences in Adaptation of <i>Rhizophora mangle</i> Collected from the East and West Coasts of Florida?
2:40-3:00	Thomas Doyle Predicting the Fate of Florida's Coastal Ecosystems along the Gulf of Mexico under Rising Sea Levels and Climate Change		Joel Trexler Aquatic Fauna as Indicators for Everglades Restoration: Applying Dynamic Targets in Assessments for CERP-MAP	Jay Sah Developing a Data-driven Classification of South Florida Plant Communities	Zhixiao Xie Patterns of Variability in the EDEN Digital Elevation Model in the A.R.M. Loxahatchee National Wildlife Refuge	Ed Proffitt Survival, Growth, and Reproduction of Red Mangroves (<i>Rhizophora mangle</i>) in Restoration: Importance and Interaction of Genetic and Environmental Factors
3:00-3:30	REFRESHMENT BREAK IN POSTER AND EXHIBIT DISPLAY AREA					

WEDNESDAY	WEDNESDAY — JULY 30, 2008 (continued)					
3:30-5:40	CONCURRENT WORKSHOPS					
	Climate Change Workshop	Symposium on Biogeochemistry & Contaminants	System-wide Assessment of South Florida Ecosystems - Part III	Geospatial Approaches	A.R.M. Loxahatchee NWR Science Workshop - Ecology	Coastal and Mangrove Ecosystems
	<i>Royal Palm IV-V</i>	<i>Royal Palm I-II</i>	<i>Royal Palm III</i>	<i>Royal Palm VI</i>	<i>Royal Palm VII</i>	<i>Royal Palm VIII</i>
	Moderator: Nicholas G. Aumen	Moderator: Delia Ivanoff	Moderator: Joan Browder	Moderator: Sabine Grunwald	Moderator: Donatto Surratt	Moderator: Sharon Ewe
3:30-3:40	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
3:40-4:00	Chris Madden and Dave Hallac Review of Current Everglades Ecosystem, Landscape, and Hydrodynamic Models and Potential Applicability to Evaluate Climate Change Effects	Jeffrey Wozniak Understanding the Movement and Transformation of Nitrogen in the Southern Everglades	Jeff Woods Using Hydrologic Monitoring as a Tool for Synthesis of the Greater Everglades and Southern Estuaries Modules of the Monitoring and Assessment Plan	Paul Conrads Development of Soft Sensors for Real-time Quality Control of Water-level Data for the EDEN Network	Xin Wang Vegetation Cover Decreases Evaporative Loss in a Wetland Ecosystem	Thomas Doyle Forecasting Mangrove Forest Response to Sea-level Rise and Hydrologic Restoration of the Everglades
4:00-4:20	Paul Souza Species Conservation in South Florida and the Challenge of Climate Change	Forrest Dierberg Tracer Studies for Quantifying Transport Processes and Phosphorus Removal within the Everglades Stormwater Treatment Areas	Greg Graves Biscayne Bay Nearshore Continuous Salinity Monitoring	Zhongwei Liu Validation of EDEN Water-Surface Model and Ground Digital Elevation Model (DEM) for the Everglades, Florida	Jim Entry Water Quality Gradients in the Arthur R. Marshall Loxahatchee National Wildlife Refuge	Edward Castaneda Hurricane Impacts on Mangrove Forests in Florida Coastal Everglades: The Importance of Sediment Deposition in the Biogeochemistry and Fertility of Mangrove Soils
4:20-4:40	Fred Sklar Potential Water Balance Impacts of Global Climate Change on the Extant Everglades in Comparison to a Simulated Pre-Drainage Everglades	Joffre Castro Water Quality in Everglades National Park, Part I: Statistical Methods for Censored Data	Christopher Kelble Water Quality Monitoring in the Southern Estuaries	Doug Donalson From 2X2 to Ecological Model: Does High Resolution Water Affect Model Results?	Tiffany Trent Investigating Food Quality Effects on the Florida Apple Snail: Water Chemistry Effects on Periphyton Assemblages in the Northern Everglades	Carlos Coronado The Role of Biotic Processes on Soil Accretion and Elevation Change in Mangrove Forests in South Florida
4:40-5:00	Marguerite Koch The Resilience of Marine Ecosystems in the Greater Everglades in Response to Multiple Stressors and Climate Change	Dilip Shinde Water Quality in Everglades National Park, Part II: Statistical Summary, Trend Analysis and Influence of Water Sources	Diego Lirman SAV as Indicators of Ecosystem Change in South Florida Estuaries	Paul Conrads Hindcasting Water Levels for EDEN Gaging Stations, 2000-2006	Ryan Lynch Old World Climbing Fern (<i>Lygodium microphyllum</i>) Invasion in Hurricane Caused Treefalls	Kevin Whelan Hurricane Wilma's Sediment Deposition Impacts on Mangrove Forest Soil Elevation and Changes within Constituent Soil Zones
5:00-5:20	Climate Change Panel: Nick Aumen, Moderator Stu Appelbaum Chuck Collins Dan Kimball Jayantha Obeysekera Fred Sklar Paul Souza		Joan Browder Monitoring Fish and Invertebrates in the Southern Estuaries: Quantifying Variation and Reducing Uncertainty	Forest Michael Caloosahatchee Riverway: An Ecologically and Financially Sustainable Alternative for the C-43 West Reservoir	Debra Willard Response of Wetlands in the Arthur R. Marshall Loxahatchee National Wildlife Refuge to Hydrologic Changes: Anthropogenic and Climate Impacts	Thomas Smith III A Decade of Surface Elevation Change in Wetlands of the Southwest Coastal Everglades: Sea-Level, Disturbance and Freshwater Inflow
5:20-5:40						
EVENING ON OWN						

THURSDAY — JULY 31, 2008					
7:30-8:30	MORNING REFRESHMENTS IN POSTER & EXHIBIT DISPLAY AREA				
8:30-10:00	Plenary Session (Royal Palm IV-V)				
8:30-9:00	MODERATOR: G. Ronnie Best Stephanie E. Johnson , Senior Program Officer, National Research Council "Progress Towards Restoring the Everglades: A Challenge Being Addressed by the National Academy of Sciences"				
9:00-10:00	A "Coffee House" Panel Discussion on Natural System Hydrology PANELISTS: Robert Fennema, John Ogden, Rock Salt, Paul Souza and Tom Van Lent				
10:00-10:30	REFRESHMENT BREAK IN POSTER AND EXHIBIT DISPLAY AREA				
10:30-12:00	CONCURRENT WORKSHOPS				
	Wildlife Ecology and Modeling	Symposium on Biogeochemistry & Contaminants	Regional Perspectives	Role of Flow in a Sustainable Everglades	Lake Okeechobee: Historic Assessment
	<i>Royal Palm IV-V</i>	<i>Royal Palm I-II</i>	<i>Royal Palm III</i>	<i>Royal Palm VI-VII</i>	<i>Royal Palm VIII</i>
	Moderator: Don Axelrad	Moderator: Forest T. Dierberg	Moderator: Stephanie Romanach	Moderator: Fred Sklar	Moderators: Betty Grizzle and Rosanna Rivero
10:30-10:40	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
10:40-11:00	Andrea Bowling How Habitat Degradation in the Everglades Has Affected Juvenile Snail Kite Movement	Rudolf Jaffe Characterizing the Dynamics of Dissolved Organic Matter in the Florida Coastal Everglades	Erik Noonburg Development of a Sampling Prioritization Model to Optimize the Selection of Tree Islands in the Everglades Wildlife Management Area for Surveying of <i>Lygodium microphyllum</i>	Lynn Leonard The Role of Flow on Ridge and Slough Landscape Dynamics in Shark River Slough, Everglades National Park	Christopher McVoy The Lake Okeechobee-Everglades Hydrologic Interface: 1850s to 1920s
11:00-11:20	Christa Zweig Habitat, Hydrology, and Reproduction: Conservation of the Florida Snail Kite and Everglades Restoration	Piero Gardinali Regional Distribution of Organic Contaminants in Water and Sediments from Everglades National Park, Biscayne National Park and Big Cypress National Preserve	Roy Sonenshein Hydrology of the Florida Panther National Wildlife Refuge	John Meeder Transverse Glades Karst Origins: The Everglades Water Table Control Mechanism	Rosanna Rivero & Betty Grizzle The Rise and Fall of Lake Okeechobee: Changes to Lake Morphology from 1913 to Present Day
11:20-11:40	Amber Shawl The Potential for Aquaculture to Support the Recovery of Apple Snail, <i>Pomacea paludosa</i> , Populations in Florida Wetlands and Lakes	Ronald Jones Periphyton Constructed Stormwater Treatment Areas (PSTA) Mesocosm Treatment Performance With Four Different Substrates	Deborah Scerno So Many Rules and Regulations! What's an Environmental Restoration project to do?	Michael Zimmerman Developing an Everglades Slough Vegetation Performance Measure	Robert Fennema Predrainge Hydrology of Lake Okeechobee
11:40-12:00	Phil Darby Ecological Windows of Opportunity for Florida Apple Snail Recruitment	Christopher Osburn Cost Effective Regional Phosphorus Concentration Mapping of Oligotrophic Open Water Systems	Kiren Bahm Application of a New MODHMS-Based Model to C-111 Detention Area Buildout	Judson Harvey Relative Importance of Hydro-ecological Processes Governing Self-Organization of the Everglades Ridge and Slough Landscape	James Vearil History of Lake Okeechobee Operating Criteria
12:00-12:20	Nilmini Jayasena Effects of Environmental Methylmercury Exposure on Reproduction in White Ibises (<i>Eudocimus albus</i>)	William Walker Modeling Phosphorus Dynamics in Everglades Wetlands and Stormwater Treatment Areas		Christopher McVoy 130 Years of Ecohydrological Change in the Everglades: What's Different and What's Not, and Why it Matters	
12:20-1:30	LUNCH PROVIDED IN PRE-FUNCTION & POSTER DISPLAY AREA				

THURSDAY — JULY 31, 2008 (continued)					
1:30-3:00	CONCURRENT WORKSHOPS				
	Wildlife Ecology and Modeling	Symposium on Biogeochemistry & Contaminants - R-EMAP	Adaptive Management 1	Role of Flow in a Sustainable Everglades	Lake Okeechobee: Historic Assessment
	<i>Royal Palm IV-V</i>	<i>Royal Palm I-II</i>	<i>Royal Palm III</i>	<i>Royal Palm VI-VII</i>	<i>Royal Palm VIII</i>
	Moderator: Todd Hopkins	Moderator: Peter Kalla	Moderator: Tom St. Clair	Moderator: Jud Harvey	Moderators: Betty Grizzle and Rosanna Rivero
1:30-1:40	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
1:40-2:00	James Beerens Resource Selection of Two Wading Bird Species with Divergent Foraging Strategies	Daniel Scheidt Phosphorus and Sulfur in the Everglades: Landscape Patterns and Temporal Trends 1995-2005	Steve Traxler CERP AM Program Implementation	Evan Variano Measurements and Modelling of Vegetation Effects on Flow in Ridge and Slough Landscape	Cherise Maples Seminole Tribe Perspective on Lake Okeechobee
2:00-2:20	Bryan Botson The Effects of Hydrological Variation on Seasonal Wading Bird Prey Concentrations in the Everglades	Guangliang Liu Temporal and Spatial Characteristics of Mercury Contamination in the Everglades during the Past Three R-EMAP Phases	Andrew LoSchiavo System-wide Planning for CERP: Lessons Learned from Band 1 Model Run Evaluation	Althea Hotaling Environmental Drivers of Wet Prairie Conversion in Water Conservation Area 3A	Panel Discussion
2:20-2:40	Dale Gawlik A Spatially-explicit Simulation Model of Landscape Quality for the Wood Stork (<i>Mycteria americana</i>) in Southwestern Florida	Leonard Scinto Trends in Biogeochemical Processes across the Greater Everglades Landscape – Results of R-EMAP III	Robert Doren Ecological Indicators for System-wide Assessment of the Greater Everglades Ecosystem Restoration Program	Judson Harvey Threshold for Everglades Sediment Entrainment Determined by Flow Enhancement in a Field Flume	
2:40-3:00	Elise Pearlstine Wintering Bird Area Occupancy in a Mosaic of Harvested and Un-harvested Sugarcane Fields	Marguerite Madden Everglades Vegetation Community Analysis at the Landscape Scale	Rachel Pawlitz Data Communication and Decision Support Tools in Everglades Restoration	Dianne Owen Characterization of Tree Island Hydrology in the Central Everglades: An Application of the EDEN Water Surface Model	
3:00-3:30	REFRESHMENT BREAK IN POSTER AND EXHIBIT DISPLAY AREA				
	Moderator: Barry Rosen	Moderator: Joffre Castro	Moderator: Eliza Hines	Moderator: Leonard Pearlstine	Moderator: Lewis Hornung
3:30-3:40	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
3:40-4:00	Debra Willard Vegetation and Hydrologic History of Everglades Marl Prairies: Paleocological Evidence from Big Cypress National Preserve	Pete Kalla Characterization of Southern Florida Marsh Vegetation Using a Landscape Scale-Random Sample: R-EMAP Phase III	Matt Harwell AM in a Learning Environment - A Case Study of Hydrology and Water Quality at Loxahatchee NWR	Tom Givnish Self-assembly of Patterned Landscapes and Vegetation in the Central Everglades: Importance of Local and Landscape Drivers	Paul McCormick Lake Okeechobee: Current and Future Management Challenges
4:00-4:20	Lara Drizd A Conceptual Model for Integrating Predator-Prey Monitoring for the Everglades Landscape	Evelyn Gaiser Landscape Patterns in Periphyton Abundance and Composition in the South Florida R-EMAP Study.	Lynn Wingard Restoration and Sea-Level Rise: The Role of Paleoeologic Data in Incremental Adaptive Management Strategies	Danielle Watts Patterns of Peat Elevation in the Ridge-Slough Mosaic	Thomas Teets Lake Okeechobee Watershed Construction Project Phase II Technical Plan
4:20-4:40	Daniel Slone Discovery and Delineation of Seagrass Beds in the Ten Thousand Islands Using Manatee Radiotelemetry Data, Spatial Modeling, and Stratified Field Sampling	Joel Trexler Scaling Revealed by Spatial Cross-Correlation Analysis of Aquatic Communities and Environmental Drivers Using R-EMAP Data	Eric Bush CERP Project Implementation - Incremental Analysis and Justification of a Comprehensive Plan	Laurel Larsen A Process-Based Cellular Automata Model of Ridge and Slough Landscape Evolution	Stuart Appelbaum The Role of CERP in Addressing Lake Okeechobee Watershed Issues
4:40-5:00	Kristen Hart Hurricane Impacts on Mangrove Diamondback Terrapins (<i>Malaclemys terrapin</i>) in the Everglades	Pete Kalla Mercury in the Greater Everglades: Changes in Bio-magnification over Time, and Relationships to Other Contaminants, across the Landscape R-EMAP 1995 - 2005	John Ogden The Yellow Book Nine Years Later - Unanticipated and Unresolved Issues	Paul Glaser Radiocarbon Dating Sediments in the Everglades of South Florida: Sources of Error and Mass Accumulation Rates	Frank Nearhoof Chronology of the Florida Department of Environmental Protection's Historic Involvement in Lake O Restoration

THURSDAY	THURSDAY — JULY 31, 2008 (continued)				
3:30-5:40	CONCURRENT WORKSHOPS				
	Wildlife Ecology and Modeling	Symposium on Biogeochemistry & Contaminants R-EMAP	Adaptive Management 2	Role of Flow in a Sustainable Everglades	Lake Okeechobee Watershed: Holistic Approach
	<i>Royal Palm IV-V</i>	<i>Royal Palm I-II</i>	<i>Royal Palm III</i>	<i>Royal Palm VI-VII</i>	<i>Royal Palm VIII</i>
5:00-5:20	Shawn Liston Hydrologically-Induced Seasonal Changes in Cypress Forest Aquatic Fauna Communities	DISCUSSION	DISCUSSION	Michael Kline A Comparison of Adjacent Ridge and Slough Vegetative Communities	Richard Budell Agricultural Best Management Practices in the Okeechobee Watershed
5:20-5:40	Jennifer Rehage Temporal and Spatial Dynamics in the Fish Community of Marsh-Mangrove Ecotonal Habitats in the Southwest Region of Everglades National Park			Workshop Discussion: > How will increased flow restore the Everglades? > Is there scientific consensus? What questions remain? > Are current performance measures adequate?	Patrick Bohlen Securing Water Related Environmental Services at a Landscape Scale from Working Cattle Ranches in the Northern Everglades Watershed
5:40-7:30	INTERACTIVE POSTER SESSION & NETWORKING				
FRIDAY	FRIDAY — AUGUST 1, 2008				
7:30-8:30	MORNING REFRESHMENTS IN POSTER & EXHIBIT DISPLAY AREA				
8:30-10:00	CONCURRENT WORKSHOPS				
	Wildlife Ecology and Modeling	Regional Perspectives	Hydrogeology and Modeling of Karst Aquifers of Southern Florida	Tree Islands: Conceptual Model and Performance Measures	
	<i>Royal Palm IV-V</i>	<i>Royal Palm III</i>	<i>Royal Palm VI-VII</i>	<i>Royal Palm VIII</i>	
	Moderator: Joel Trexler	Moderator: Jed Redwine	Moderator: Kevin J. Cunningham	Moderator: Agnes McLean	
8:30-8:40	Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview	
8:40-9:00	Jeffrey Kline Fish Introductions into Everglades Wetlands: An Unforeseen Consequence of Restoration?	James Beaver Growth Management Regulation, Public Investment and Restoration Resource Implications for the Estero Bay Watershed	Kevin Cunningham Marine High-Resolution Seismic-Reflection Data in Biscayne National Park: Indications of a Regional Seal Bypass System	Panel Discussion: 1. What are the best indicators for assessing and evaluating tree island change? 2. What are the three best hydrological and ecological models to predict tree island change, i.e., how are the evaluation performance measures built? 3. How are the restoration targets for tree island performance measures to be determined?	
9:00-9:20	David Ceilley Fish Community Structure of Aquatic Refugia, Impacted and Reference Wetlands in Southwest Florida	Nora Egan Demers Using Stable d15N Ratios and Biological Diversity to Examine Effectiveness of Restoration Efforts within a Residential Community- Another Tool for the TMDL Toolbox	Michael Sukop High-Resolution X-ray Computed Tomography of Macroporous Karst for Permeability Measurement and Non-Darcian Flow via Lattice Boltzmann Models		
9:20-9:40	Mark Miller Estimating Effect of Precipitation on Survival of Hatching American Crocodiles	John Marshall GEER Progress from a Total Ecosystem View	Michael Sukop and Jeffrey Lee Lattice Boltzmann Methods Applied to Three-Dimensional Virtual Cores Constructed from Digital Optical Borehole Images of a Karst Carbonate Aquifer		
9:40-10:00	Peggy VanArman Comparison of Growth Between Newly-Hatched Young of Two Species of Crayfish, <i>Procambarus alleni</i> (Faxon) and <i>Procambarus fallax</i> (Hagen), from South Florida	Jed Redwine Calculating Carbon Storage Performance of Three St. Johns River Water Management District Wetland Restoration Projects	Barclay Shoemaker Effects of Turbulence on Hydraulic Heads and Parameter Sensitivities in Preferential Groundwater Flow Layers of the Biscayne Aquifer		
10:00-10:30	REFRESHMENT BREAK IN POSTER AND EXHIBIT DISPLAY AREA				
10:30-12:00	CLOSING PLENARY SESSION — Summaries, Discussions and Recommendations (Royal Palm IV & V) – Session organizers will give a very brief overview of major emerging concepts, recommendations and next steps resulting from the symposium, workshops and special sessions held throughout the week.				
10:00-1:30	POSTER DISPLAY REMOVAL & EXHIBITOR MOVE-OUT				

GEER Poster Directory – Session One

- 1 **Gordon Anderson**, Comparing Seasonal Salinity Variations in Shark River Estuary
- 28 **Lonny Anderson**, Seagrass Restoration - Florida Keys National Marine Sanctuary
- 59 **Peter Besrutschko**, Periphyton Constructed Stormwater Treatment Areas
- 38 **Michelle Boudreaux**, Predicting Effects of CERP Projects on Salinity Patterns
- 39 **Michelle Boudreaux**, RECOVER: Southern Estuaries Performance
- 37 **Michelle Boudreaux**, RECOVER's Scientific Role in Everglades Restoration
- 56 **Joan Browder**, Prevalence of Abnormal Fish as Indicator of Environmental Quality
- 46 **Michael Byrne**, Measuring Nutrient Concentrations in Tributaries of Lake Okeechobee
- 63 **Cory Catts**, Tilling of Biomass in Treatment Wetlands
- 58 **Hongjun Chen**, Analysis of Historical Vegetation
- 64 **Robert Compitello**, Prescribed Fire Effect on Phosphorus Cycling and Repopulation
- 48 **Stacey Cote**, Effects of Vegetation and Soil Management Practices on Phosphorus
- 13 **James Cuda**, A Model for Sustainable Management of Brazilian Peppertree
- 40 **Gretchen Ehlinger**, RECOVER: Northern Estuaries Performance Measure Synthesis
- 14 **Edwin Everham**, Estero Bay Tributaries Riparian Vegetation Analysis
- 51 **Adolfo Fernandez**, Endosulfan Sulfate in Fish Tissue
- 50 **Melissa Victoria Fernandez**, Submerged Aquatic Vegetation as Contamination Indicators
- 15 **Joshua Filina**, Salinity, Light and Temperature Effects on *Ruppia maritima* Germination
- 24 **Andrew From**, Mapping Mangrove Migration under Altered Hydrologic Flow
- 52 **Piero Gardinali**, Microconstituents in Surface Waters with Respect to Water Reuse
- 42 **Andrew Gottlieb**, RECOVER: Greater Everglades Performance Measure Synthesis
- 41 **Andrew Gottlieb**, RECOVER: Lake Okeechobee Performance Measure Synthesis
- 47 **Kevin Grace**, Effect of Soil Phosphorus Enrichment on Release and Long-Term Removal
- 25 **Marie-Theres Graf**, Geochemical Analysis of Carbonate Layers in Tree Island Peats
- 53 **Erin Hanan**, Patterning of Plant-Soil-Water Interactions
- 2 **Peter Harlem**, Lidar Detection of Karst Landforms
- 16 **Rachel Harris**, Tidal Influence on Mangrove Community Structure
- 49 **Scott Jackson**, Water and Sediment Phosphorus Gradients in STAs
- 17 **Krish Jayachandran**, Potential Biological Control Agents for Invasive Plant Species
- 18 **Darlene Johnson**, Development of Habitat Suitability Models for Biscayne Bay Fishes
- 70 **Manohardeep Josan**, Effect of Drainage Flow on Phosphorus Concentrations
- 3 **David Kaplan**, Predicting Restoration Scenarios on Floodplain of Northwest Fork
- 29 **Anwar Khan**, Ecosystem Restoration Risk Analyses
- 4 **Ken Krauss**, Hydrologic Fluxes, Restoration and Marsh-Mangrove Ecotone
- 30 **Katie Laakkonen**, City of Naples Approach to Treating Stormwater
- 31 **William Labiosa**, South Florida Ecosystem Portfolio Model
- 19 **Sanjay Lamsal**, Spatial Variability of Soil Nutrients
- 32 **Andrew LoSchiavo**, CERP Process to Apply Adaptive Management
- 33 **Kathleen McCallion**, Southwest Florida Feasibility Study
- 20 **Carole McIvor**, Biota in Mangrove-Forest Food Webs using Stable Isotopes
- 60 **Kathleen McKee**, Soil Phosphorus Storage in Isolated Wetlands of Improved Pastures
- 5 **Jennifer Mellein**, Hydrologic Heterogeneity and Forest Structure Dynamics on Tree Islands
- 54 **Fernando Miralles-Wilhelm**, Spatial and Temporal Variation-Tree Island Phosphorus Cycling
- 65 **Rajendra Paudel**, Modeling Spatio-Temporal Phosphorus Cycling
- 66 **Yun Qian**, Effects of Burn Temperature on Ash Nutrients; Availability of Cattail and Sawgrass
- 61 **K. Ramesh Reddy**, Phosphorus Composition of Wetlands in an Agricultural Landscape
- 43 **Jed Redwine**, Predicting CERP Influences on Extreme High and Low Water Levels
- 44 **Jed Redwine**, Predicting CERP Impact on Wet Prairie Vegetation Communities
- 6 **Amy Renshaw**, Environmental Impacts of the Annual Agricultural Drawdown
- 45 **Gregg Reynolds**, Methods for Evaluating Landscape-Scale Sheet Flow Properties
- 62 **Rosanna Rivero**, Applications of Remote Sensing and Multivariate Geostatistics
- 21 **Michael Robblee**, Comparison of Juvenile Pink-Shrimp Abundance
- 57 **Colleen Rochelle**, Mercury Bioaccumulation in Fish
- 22 **Pablo Ruiz**, Vegetation of Biscayne National Park, Homestead, FL, USA
- 26 **Amartya Saha**, Water Source Utilization and Foliar Nutrient Status in Plant Communities
- 34 **Mark Shafer**, Alternative Plans for CERP Biscayne Bay Coastal Wetlands Project
- 35 **Brooke Shamblin**, Tree Composition, Recruitment and Mortality of Hammocks
- 7 **Sanjay Shukla**, Watershed-scale Impacts of using Stormwater Impoundments
- 8 **DeWitt Smith**, Freshwater Flow through Joe Bay Relative to Taylor Slough and C111
- 9 **Erik Stabenau**, Hydrologic Impacts of the C-111 Canal
- 10 **Peter Stone**, Climatic Changes in Rainfall Regime
- 68 **W. Justin Vogel**, Spatial and Temporal Changes in Chemical Characteristics and Distribution of Sediments
- 27 **Xin Wang**, Isotopic Effects of Hydroperiod in Tree Islands
- 67 **Yu Wang**, A Loss-on-Ignition Method to Assess Soil Organic Carbon
- 23 **Matthew Waters**, Reconstructing Primary Producer Communities in WCA-2A
- 69 **Alan Wright**, Catabolic Diversity of Periphyton and Detritus Microbial Communities
- 36 **Jing-Yea Yang**, Streamgauging Planning at Stormwater Treatment Area - 1 West
- 11 **Liqiong Zhang**, Flow Rating for Interior Culverts in STAs
- 12 **Mark Zucker**, Temporal and Spatial Salinity Patterns in Joe Bay, ENP
- SP1 **Adam Watts**, Unmanned Aircraft Systems for Wading Bird Surveys
- SP2 **Kathy O'Reilly-Doyle**, Think Locally, Act Neighborly

Session One Posters are on display beginning at 8:30am on Monday, July 28. A formal Poster Networking Session is scheduled Tuesday, July 29 from 5:30pm-7:30pm. Presenters will stand at their posters from 6:30pm-7:30pm. Poster Session One should be removed upon conclusion of the evening session.

NOTE: Poster abstract titles in this listing are abbreviated. Consult the poster directory in the program book for full reference.

GEER Poster Directory – Session Two

- 38 **Shadab Anwar**, Tracer Test Inversion to Determine Vegetative Flow Resistance
- 7 **Chris Cattau**, Effects of Invasive Exotic Apple Snail on the Snail Kite
- 2 **Grady Caulk**, CERP: Cultural Resources Mitigation Strategies
- 14 **David Ceilley**, Rapid Wetland Assessment Method
- 13 **David Ceilley**, Aquatic Macroinvertebrates of Impacted and Reference Wetlands
- 33 **Kevin Chartier**, Getting Ecological Models into the Hands of the Users: JEM
- 8 **Paul Conrads**, Integration of Hydrologic and Ecological Studies of the Snail Kite
- 47 **Phil Darby**, Field and Lab Studies of Florida Apple Snail Predators
- 43 **Mark Dickman**, Baseline Hydrologic Data Collection along the I-75/SR 29 Corridor
- 68 **Marcie Dixon**, Investigating Ecological Effects of Mineral Enrichment
- 44 **Robert Dorazio**, Estimation of Manatee Abundance from Aerial Surveys
- 17 **Nathan Dorn**, Seasonal Succession and Annual Hydrologic Patterns
- 69 **Tom Dreschel**, Implementation and Operation of a Large Everglades Physical Model
- 27 **Katherine Dunlop**, Cue Recognition and Prey Responses to Non-Native African Jewelfish
- 53 **Andrew Erickson**, Baseline Hydrologic Information to Monitor Downstream Effects of Picayune Strand Restoration Project
- 21 **Edwin Everham**, Biological Monitoring Program for Lake Trafford Restoration Project
- 9 **Zachary Fratto**, Introduction and Colonization of Non-native Apple Snails in ENP
- 10 **Ikuko Fujisaki**, Risk Assessment of Potential Invasiveness of Exotic Reptiles
- 3 **Natalie Garrett**, Cultural Resources Overview for CERP: A Cooperative Effort
- 61 **Rebekah Gibble**, Effects of Chemistry and Hydrology on Seed Germination and Plant Community Development
- 22 **Charles Goss**, Forecasting Models and Environmental Impact Assessment
- 46 **Timothy Green**, Spatial and Age-Structured Population Model of the American Crocodile
- 39 **Guoqing He**, Monitoring of Water Flow in ENP
- 15 **Garth Herring**, Physiological Responses of Pre-breeding Adult Great Egret and White Ibis
- 64 **Jeff Hutchinson**, Repeated Herbicide Treatments for Control of *Lygodium microphyllum*
- 34 **Brian Jeffery**, Effects of Off-Road Vehicles on Small Mammals in Big Cypress
- 30 **Darlene Johnson**, Salinity Variability and Abundance of Fishes along Mangrove Shorelines
- 19 **Nicole Katin**, Quantifying Aquatic Fauna Standing Stock in South Florida Cypress Forests
- 40 **Michael Laas**, Impacts of Gate Discharge and Hurricane Conditions on Water Flow in ENP
- 41 **Laurel Larsen**, Transport Dynamics of Flocc in Ridge and Slough Vegetation Communities
- 45 **William Loftus**, Food-Web Structure in Big Cypress Swamp Wetlands
- 16 **William Louda**, Pigment-Based Chemotaxonomy to Assess Periphyton Communities
- 65 **Ryan Lynch**, Post Hurricane Colonization of *Lygodium microphyllum* on Pop-up Tree Islands
- 70 **Angela Markovich**, Research Activities at ARM Loxahatchee NWR
- 1 **John Marshall**, GEER: Progress from a Total Ecosystem View
- 32 **Frank Mazzotti**, Alligators and Crocodiles as Indicators for Restoration
- 31 **Frank Mazzotti**, Burmese Pythons in the Southern Everglades
- 28 **Lauren McCarthy**, Segregation of Palaemonid Shrimp Species along Shark River Estuary
- 60 **Paul McCormick**, Influences of Soil Chemistry on Coexistence of Sawgrass and Slough Habitats
- 51 **Nelson Melo**, Understanding Florida Bay Hypersalinity and Water Exchange
- 55 **Joong-Hyuk Min**, Development of a Spatially Distributed Flow Dynamics Model
- 54 **Joong-Hyuk Min**, Phosphorus Dynamics Modeling of Emergent and Submerged Aquatic Vegetation
- 42 **Fernando Miralles-Wilhelm**, Modeling Spatial and Temporal Patterning of Ridge and Slough System
- 50 **James B. Murray**, Geographic Distribution of Non-Native Red Rimmed Melania
- 23 **Adam Obaza**, Effectiveness of Drift Fences or Monitoring Fish Movement
- 25 **Danielle Ogurcak**, Spatial Distribution of Wetland Vegetation Surrounding Alligator Holes
- 59 **Tae-Goo Oh**, Ridge Senescence of *Cladium jamaicense* in the Florida Everglades
- 4 **James Pepe**, Preliminary Archaeological Context for Everglades Restoration Study Area
- 29 **Ashley Porter**, Impact of Two Introduced Cichlids on Native Fish Communities
- 62 **Rosanna Rivero**, The Rise and Fall of Lake Okeechobee: 1913 to Present Day
- 24 **Adam Rosenblatt**, Habitat Use and Movement Patterns of the American Alligator
- 66 **William Roth**, ARM NWR Completely Mixed Flow Model
- 26 **Brooke Sargeant**, Effects of Abiotic Gradients and Trophic Interactions on Food Web Structure
- 58 **Reza Savabi**, Ground Water Quality and Flow near ENP
- 57 **Ray Schaffranek**, Controls on Flow Velocity and Flow Resistance
- 11 **Melinda Schuman**, Biological Monitoring of Treefrogs: Picayune Strand Restoration Project
- 5 **Margo Schwadron**, Shell Mounds and Middens of the Ten Thousand Islands
- 20 **David Shindle**, Pre-construction Baseline Monitoring Survey of Florida Panther
- 6 **Greg Smith**, CERP: Cultural Resources Overview and Survey Strategy
- 49 **Lars Soderqvist**, Storm Tide of Hurricane Wilma in Southwestern Florida, October 2005
- 56 **Roy Sonenshein**, Geographical and Temporal Distribution of Flows into Shark River Slough
- 52 **Brad Stith**, Integration of Individual-based Manatee Model and FTLOADDS Hydrology Model to Assess Restoration Effects
- 63 **Donatto Surratt**, Novel Approach to Modeling Periphyton Distributions in the ARM Loxahatchee NWR
- 12 **Brandon Van Nuys**, Pilot Study to Establish Monitoring Sites for Nesting Habitat of Florida Snail Kite
- 35 **Peggy VanArman**, Examination and Comparison of Mandibles and Gastric Teeth in Two Species of Crayfish
- 48 **Kathryn Villazon**, Effects of Elevation, Plant Age and Planting Density on Revegetation of Freshwater Marl Prairie Ponds
- 67 **Hongqing Wang**, Simplified Modeling of Surface Water Sulfate Dynamics in the ARM Loxahatchee NWR
- 18 **Shona Wilson**, Small and Medium Sized Mammal Inventory of ENP and Big Cypress
- 36 **Kathy Worley**, Aerial and Field Monitoring of Selective Avifauna in Aquatic Refugia
- SP1 **Adam Watts**, Unmanned Aircraft Systems for Wading Bird Surveys
- SP2 **Kathy O'Reilly-Doyle**, Think Locally, Act Neighborly

Session Two Posters are on display beginning at 7:30am on Wednesday, July 30 through 10:30am on Friday, August 1. A formal Poster Networking Session is scheduled Thursday, July 31 from 5:30pm-7:30pm. Presenters will stand at their posters from 6:30pm-7:30pm. Poster Session Two posters should be removed upon conclusion of the 10AM break on Friday.

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