

GEER Poster Directory

All GEER Posters will be on display from 7:30am, Tuesday, June 6 through 12noon, Friday, June 9. Two formal poster sessions are scheduled on Tuesday and Thursday evenings from 5:00pm-8:00pm. Presenters will be stationed at their posters from 6:00pm-7:00pm.

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- 67..... **Community Shifts Resulting from Anthropogenic Manipulation of the Caloosahatchee Watershed: Mollusk Assemblages as Indicators of Environmental Change** – *Jorge Agobian*, Florida Gulf Coast University, College of Arts & Sciences, Fort Myers, FL
- 27..... **Observed Marine-Sediment Depositions from Hurricane Wilma along the Shark River Estuary, Everglades National Park, Florida** – *Gordon Anderson*, USGS-FISC, Homestead, FL
- 77..... **Selection of Vital Signs for the National Park Services South Florida / Caribbean Inventory and Monitoring Network** – *Andrea Atkinson*, National Park Service, South Florida / Caribbean Network, Palmetto Bay, FL
- 51..... **Modeling Water Flow in the Water Conservation Area 1 Using Interferometric Synthetic Aperture Radar (InSAR) Observations** – *Bernardo Bieler*, University of Miami, Department of Civil, Architectural and Environmental Engineering, Coral Gables, FL
- 28..... **Hurricane Impacts to Tree Islands in Arthur R. Marshall Loxahatchee National Wildlife Refuge, Florida** – *Laura Brandt*, Fish and Wildlife Service, A.R.M. Loxahatchee NWR, Boynton Beach, FL
- 68..... **Implications for Oyster Reef Restoration through Taphonomic Comparisons of Modern and Pliocene *Crassostrea* sp.** – *Amanda Bridges*, Florida Gulf Coast University, Fort Myers, FL
- 32..... **The ATLSS Fire Model** – *Eric Carr*, The Institute for Environmental Modeling, University of Tennessee, Knoxville, TN
- 31..... **Integrating ATLSS Models: Fulfilling the Promise of Multi-Modeling for Everglades Restoration** – *Eric Carr*, The Institute for Environmental Modeling, University of Tennessee, Knoxville, TN
- 3..... **The Role of the American Crocodile (*Crocodylus acutus*) as an Indicator of Ecological Change in Everglades Ecosystems** – *Michael Cherkiss*, University of Florida, Fort Lauderdale Research and Education Center, Davie, FL
- 2..... **Linking Hydrologic Modeling and Ecologic Modeling: Application of a Spatially-Explicit Species Index (SESI) Model for Adaptive Ecosystem Management in the Everglades Mangrove Zone of Florida Bay** – *Jon Cline*, Case Western Reserve University, Department of Biology, Cleveland, OH
- 78..... **Environmental Restoration Projects in the Kissimmee Basin: Restoring Natural Corridors** – *David Colangelo*, SFWMD, Watershed Mgmt/Kissimmee, West Palm Beach, FL
- 15..... **Application of a Dynamic Clustering Algorithm to the Water-Level Hydrographs of the EDEN Hydrologic Network** – *Paul Conrads*, USGS, SCWSC, Columbia, SC
- 16..... **Estimating Water Depths at Ungaged Locations in the Florida Everglades Using Artificial Neural Networks** – *Paul Conrads*, USGS, SCWSC, Columbia, SC
- 9..... **Interagency Manatee Task Force and Everglades Restoration** – *Penny Cook*, Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute, Tequesta, FL

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- 33..... **Modeling Snail Kite Population Viability in a Variable Hydrologic Environment** – *Donald DeAngelis*, U.S. Geological Survey, Florida Integrated Science Center, Coral Gables, FL
- 79..... **Nuisance Species in Freshwaters: A Review of Causes, Treatments, and Costs** – *Joseph DePinto*, Limno-Tech, Inc., Ann Arbor, MI
- 46..... **The Influence of Calcium on Phosphorus Removal and Retention in Submerged Aquatic Vegetation Communities in South Florida Wetlands** – *Forrest Dierberg*, DB Environmental, Inc., Rockledge, FL
- 83..... **Response Surface Analysis of Salinity and Temperature for Subtropical *Crassostrea virginica*** – *Julian DiGialleonardo*, BEM Systems Inc., West Palm Beach, FL
- 84..... **Exploring Citizen Participation Opportunities in Everglades Restoration Efforts** – *Alyssa Dodd*, Palm Beach County/UF IFAS Extension, West Palm Beach, FL
- 54..... **Options for Accelerating Recovery of Phosphorus Impacted Areas of the Florida Everglades** – *Thomas Dreschel*, South Florida Water Management District, Everglades Division (MSC 4440), West Palm Beach, FL
- 85..... **Age, Staged Evolution, and Natural Disturbance of Corkscrew Swamp, Southwest Florida** – *Michael Duever*, SFWMD, Lower West Coast Regional Service Center, Fort Myers, FL
- 5..... **Solution Holes in The Rocky Glades Region of Everglades National Park: Sources or Sinks for Non-indigenous Fishes?** – *Krissy Dunker*, USGS, Florida Integrated Science Center, Homestead, FL
- 41..... **Seasonal Plant Water Uptake Patterns in the Saline Southeast Everglades Ecotone** – *Sharon Ewe*, Florida International University, Southeast Environmental Research Center, Miami, FL
- 86..... **Science in the Everglades: The Interface of Scientists and Managers** – *Holly Fling*, Duke Nicholas School of the Environment, Durham, NC
- 87..... **Detection and Implications for Management of *Lygodium microphyllum* on Tree Islands in Water Conservation Areas** – *Mary Ann Furedi*, Florida Atlantic University, Department of Biological Sciences, Davie, FL
- 88..... **Reconstruction of Historical Vegetation Patterns in Freshwater Wetlands of the Florida Everglades: A Molecular Marker Approach** – *Min Gao*, Florida International University, Chemistry and Biochemistry, Miami, FL
- 56..... **Iron-Silicone Polymer Composites as Surrogate Passive Samplers for Organic Contaminants in Biota from Protected South Florida Environments** – *Piero Gardinali*, Florida International University, Chemistry/SERC, Miami, FL
- 55..... **Emergent Pollutants of Concern (EPOCS) in South Florida Surface Waters: What and Where to Look For?** – *Piero Gardinali*, Florida International University, Chemistry/SERC, Miami, FL
- 6..... **The Effect of Hydroperiod on the Growth of the Crayfish Species *Procambarus alleni* and *P. fallax*: Two Keystone Species in the Florida Everglades** – *Matthew Gardner*, Florida Atlantic University, Environmental Science, Davie, FL

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- 50..... **Relationships between Sediment Characteristics and Sediment-Water P Exchange in an Everglades Stormwater Treatment Area** – *Kevin Grace*, DB Environmental, Inc., Rockledge, FL
- 42..... **Fish Food-web Structure in the Everglades Oligohaline Zone Revealed by d13C and d15N Stable Isotope Analyses** – *David Green*, Florida International University, Audubon of Florida, Tavernier, FL
- 43..... **Estimating Production Origins and Trophic Placement of Biota in Forested-Wetland Food Webs: Preliminary Results from Stable Isotopes** – *David Green*, Audubon of Florida, Tavernier, FL
- 35..... **Ecological and Genetic Profiles of Everglades Diamondback Terrapins, a Potential Indicator Species** – *Kristen Hart*, USGS, Center for Coastal and Watershed Studies, St. Petersburg, FL
- 14..... **Application of the Everglades Depth Estimation Network (EDEN) to Monitoring and Restoration** – *Philip Heidemann*, Florida Atlantic University, Dept. of Biological Sciences, Boca Raton, FL
- 12..... **The South Florida Information Access (SOFIA) System** – *Heather Henkel*, USGS, St. Petersburg, FL
- 7..... **The Relationship between Burrowing Behavior of Everglades Crayfish, *Procambarus alleni*, and Wetland Groundwater Elevations** – *April Huffman*, South Florida Water Management District, CERP Planning Dept./RECOVER Division, West Palm Beach, FL
- 47..... **Spatial Profiles of Water Column Phosphorus Species within an Everglades Stormwater Treatment Area** – *Scott Jackson*, DB Environmental, Inc., Rockledge, FL
- 89..... **Nutrient Limitation in a Forested Wetland on the Big Cypress Seminole Indian Reservation** – *Alyssa Jacobs*, Seminole Tribe of Florida, Water Resource Management Department, Clewiston, FL
- 75..... **Comparison of Distribution Patterns of Ceratopogonid Midges along Nutrient Gradients in the Everglades Ecosystem** – *Richard Jacobsen*, USGS, Homestead, FL
- 76..... **A Key to the Pupal Exuviae of Chironomidae in Everglades National Park** – *Richard Jacobsen*, USGS, Homestead, FL
- 57..... **Modeling Phosphorus Transport and Cycling in a Large Treatment Wetland** – *Andrew James*, University of Florida, Soil and Water Science Dept., Gainesville, FL
- 36..... **Amphibian Communities as Indicators of Restoration Success in the Greater Everglades Ecosystem** – *Valerie Johnson*, University of Florida, Department of Wildlife Ecology and Conservation, Ochopee, FL
- 18..... **An Evaluation of Airborne Remote-Sensing Technologies for Everglades Solution-Hole Detection and Characterization** – *John Jones*, USGS, Eastern Geographic Science Center, Reston, VA
- 11..... **Everglades Depth Estimation Network (EDEN) Digital Elevation Model Research and Development** – *John Jones*, USGS, Eastern Geographic Science Center, Reston, VA

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- 37..... **Wildlife Presence on Tree Islands in Everglades Water Conservation Area 3A in Relation to Tree Island Morphology, Vegetation Characteristics, and Spatial and Temporal Changes** – *Jennifer Ketterlin*, FL Fish and Wildlife Conservation Commission, Sunrise, FL
- 48..... **Effects of Phosphorus Loading on P Removal Performance and Sediment P Accrual in an Everglades Stormwater Treatment Area Wetland** – *Michelle Kharbanda*, DB Environmental, Inc., Rockledge, FL
- 90..... **SAR Interferometric Coherence Analysis of Wetlands in South Florida** – *Sang-Wan Kim*, University of Miami, Marine Geology and Geophysics, Miami, FL
- 38..... **Fish Introductions into Everglades Wetlands: An Unforeseen Consequence of Restoration** – *Jeffrey Kline*, Everglades National Park, Homestead, FL
- 91..... **Enhancing BMP Performance in the Everglades Agricultural Area** – *Timothy Lang*, University of Florida, Everglades Research and Education Center, Belle Glade, FL
- 8..... **Effects of Hydrological Restoration on Manatees: A Research Program to Integrate Data, Models and Long-term Monitoring across the Ten Thousand Islands and Everglades** – *Catherine Langtimm*, U.S. Geological Survey, Florida Integrated Science Center, Gainesville, FL
- 21..... **Distribution, Abundance, and Diversity of Freshwater Fishes in Big Cypress National Preserve** – *Shawn Liston*, Audubon of Florida, Homestead, FL
- 69..... **Relative Roles of Abiotic Stress and Predation by Non-Indigenous African Jewelfish (*Hemichromis letourneuxi*) on Native Fishes in Rocky Glades Solution Holes** – *Shawn Liston*, Audubon of Florida, Tavernier, FL
- 19..... **Distribution and Life History of the Endemic Miami Cave Crayfish (*Procambarus Milleri*) in Southern Florida** – *William Loftus*, USGS, Homestead, FL
- 20..... **Diet and Trophic Position of Introduced Asian Swamp Eels from Disjunct Florida Locations** – *William Loftus*, USGS, Homestead, FL
- INSIDE ... **Demonstration of Integrated Physical and Ecological Models to Assess Restoration Impacts on Fish, Roseate Spoonbills and American Crocodiles in Northeastern Florida Bay** –
BOOTH 7 *Jerry Lorenz*, Audubon of Florida, Tavernier Science Center, Tavernier, FL
- 1..... **Habitat Suitability Index for Roseate Spoonbills Nesting in Northeastern Florida Bay** – *Jerry Lorenz*, Audubon of Florida, Tavernier Science Center, Tavernier, FL
- 44..... **Pigment-Based CHEmotaxonomic Evaluation of Everglades Periphyton Communities** – *Bill Louda*, Florida Atlantic University, Organic Geochemistry GRoup, Boca Raton, FL
- 92..... **Comprehensive Everglades Restoration Plan: Red, Yellow, or Green?** – *John Marshall*, Arthur R. Marshall Foundation & FL Env Inst, Inc, President, West Palm Beach, FL
- 23..... **The Academy of Environmental Science and Technology at Forest Hill High School Presents a Unique Curriculum Based on Integration of Coursework and Field Experience** – *Shawn McCall* and *Erin Myers*, School District of Palm Beach County, Forest Hill Community High School, West Palm Beach, FL
- 70..... **Modeling Analysis of Florida Bays Seagrass Community Composition: The Importance of Sediment Characteristics, Water Quality, and Salinity** – *Amanda McDonald*, South Florida Water Management District, Coastal Ecosystems Division, West Palm Beach, FL

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- 29..... **Hurricane-Induced Conversion of Mangrove Forest to Mudflat: Impacts on Nekton, Big Sable Creek, Florida** – *Carole McIvor*, U.S. Geological Survey, Florida Integrated Science Center, St Petersburg, FL
- 58..... **Freshwater and Nutrient Fluxes to Coastal Waters of Everglades National Park -- A Synthesis** – *Benjamin McPherson*, USGS, Tampa, FL
- 66..... **Water Depth Patterns within the Decomp Project Footprint -- Hopeful for Restoration?** – *Christopher McVoy*, South Florida Water Management District, Everglades Division, West Palm Beach, FL
- 71..... **Long-Term Patterns in the Community Structure of Fishes in Johnson Key Basin, Western Florida Bay, 1984 - 2005** – *Patricia Mumford*, Southeast Environmental Research Center, FIU, Indian Harbour Beach, FL
- 72..... **Atypical Salinity and Temperature Cycles and the Effect on Selected Florida Bay Organisms** – *James Murray*, USGS, Geologic Division, Reston, VA
- 49..... **Patrick Owens--Effectiveness of Everglades Stormwater Treatment Areas for Improving Water Clarity** – *Patrick Owens*, DB Environmental, Inc., Rockledge, FL
- 13..... **Surfacing Daily Everglades Water Depths for the Everglades Depth Estimation Network** – *Monica Palaseanu-Lovejoy*, University of Florida, Ft. Lauderdale Research and Education Center, Ft. Lauderdale, FL
- 17..... **A User Interface to the Everglades Depth Estimation Network (EDEN)** – *Leonard Pearlstine*, University of Florida, Ft. Lauderdale Research and Education Center, Ft. Lauderdale, FL
- 59..... **A Tale of Two Designs: CERP Trophic Monitoring versus R-EMAP 2005** – *Tom Philippi*, Florida International University, Biology and FCE-LTER, Miami, FL
- 45..... **Landscape Analysis of Tree Island Head Vegetation in Water Conservation Area 3, Florida** – *Timothy Pinion*, US Fish and Wildlife Service, South Florida Ecological Services Office, Vero Beach, FL
- INSIDE ... **A Prototype Electronic Atlas Utilizing Static Maps** – *Susan D. Price*, Eastern Geographic BOOTH Science Center, U.S. Geological Survey, Reston, VA, USA
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- 60..... **An Ecological Risk Assessment of Pesticides and Metals from a Three-Year Monitoring Study For Everglades and Biscayne National Parks** – *Gary Rand*, Florida International University, Southeast Environmental Research Center, Ecotoxicology, North Miami, FL
- 80..... **Habitat Relations among Seagrass-Associated Fish and Shrimp in Southern Biscayne Bay, Florida** – *David Reed*, FIU, SERC, Miami, FL
- 4..... **Seasonal Fish-Community Patterns in Upstream Reaches of Coastal Rivers in Everglades National Park, Florida** – *Jennifer Rehage*, U.S. Geological Survey, Homestead, FL
- 81..... **Monitoring Regional Patterns in the Distribution of Seagrass-Associated Fish and Invertebrates in Southern Florida** – *Michael Robblee*, USGS/Everglades National Park, Homestead, FL

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- 34..... **A Preview of Input Data for the Natural Systems Regional Simulation Model (NSRSM) v1.1**
– *Winifred Said*, South Florida Water Management District, Hydrologic and Environmental
Systems Modeling Department, West Palm Beach, FL
- 65..... **Sheet Flow in the Ridge and Slough Landscape of Everglades Water Conservation Area 3A**
– *Raymond Schaffranek*, U.S. Geological Survey, Reston, VA
- 39..... **Enhancing the Recovery of Threatened and Endangered Species through Aquatic Refugia** –
Melinda Schuman, Conservancy of Southwest Florida, Environmental Science, Naples, FL
- 93..... **Diverse Mineral Layers Within Peaty Sediments of Everglades Tree-Islands** –
Margo Schwadron, U.S. National Park Service, SEAC, Tallahassee, FL
- 40..... **Landscape Evaluation Measures for Inland Southwest Florida Feasibility Study: Wading
Birds, Amphibian, Aquatic Fauna and Large Mammal** – *Zongbo Shang*, University of
Florida / IFAS, Ft. Lauderdale Research and Education Center, Fort Lauderdale, FL
- 26..... **Invertebrate Community Comparisons among Oligotrophic Everglades Marshes with
Contrasting Alkalinity** – *Robert Shuford*, South Florida Water Mgt District, Watershed
Mgt./Everglades, West Palm Beach, FL
- 10..... **Manatee Habitat Use within Everglades National Park: Data Summary and Management
Implications** – *Daniel Slone*, USGS, Florida Integrated Science Center, Gainesville, FL
- 94..... **Mangroves are Not Adapted to Hurricanes: Comparative Impacts of Four Hurricanes on
Mangrove Forests in the Southwest Coastal Everglades ("Labor Day", Donna, Andrew and
Wilma)** – *Thomas Smith III*, US Geological Survey, Florida Integrated Science Center, St.
Petersburg, FL
- 53..... **New Web-Based Approach for Summarizing Watershed Conditions in the South Florida
Water Management District** – *Robert Sobczak*, Big Cypress National Preserve, Resource
Management, Ochopee, FL
- 95..... **Everglades Evolution in Northern Shark Slough: Ages, Stages, and Prehistoric Disturbance**
– *Peter Stone*, SC DHEC, Columbia, SC
- 52..... **Integrating Satellite and Surface Measurements to Compute Potential and Reference
Evapotranspiration throughout Florida** – *David Sumner*, U.S. Geological Survey, Orlando,
FL
- 61..... **Freshwater Periphyton Communities in the Greater Everglades: An Update on
Performance Measures** – *Serge Thomas*, Southeast Environmental Research Center, Miami, FL
- 25..... **Monitoring Impacts of the S-332 Structures on Aquatic Fauna of the Rocky Glades** –
Joel Trexler, Florida International University, Biological Sciences, Miami, FL
- 73..... **Biogeochemical Connectivity in a Complex Wetland Landscape: Mechanisms of N
Sequestration in Tree Islands of the Southern Everglades** – *Tiffany Troxler-Gann*, Florida
International University, Southeast Environmental Research Center, Miami, FL
- 74..... **Estimating Relative Uncertainty in Model Input TP Concentration Data** – *Naiming Wang*,
South Florida Water Management District, Hydrologic and Environmental Systems Modeling,
West Palm Beach, FL

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- 24..... **Recovering the Endangered Smalltooth Sawfish Population: The Importance of South Florida Ecosystems** – *Tonya Wiley*, Mote Marine Laboratory, Center for Shark Research, Sarasota, FL
- 64..... **Utilizing the TIME Model to Simulate Comprehensive Everglades Restoration Plan (CERP) Scenarios for the Florida Bay and Florida Keys Feasibility Study (FBFKFS)** – *Melinda Wolfert*, U.S. Geological Survey, Fort Lauderdale, FL
- 30..... **Northeastern Florida Bay Estuarine Creek Response During the 2004-05 Hurricane Seasons** – *Jeff Woods*, U.S. Geological Survey, FISC Ft. Lauderdale, Ft. Lauderdale, FL
- 82..... **Naples Bay Past and Present: A Chronology of Disturbance to an Estuary** – *Kathy Worley*, The Conservancy of SW FLorida, Environmental Science, Naples, FL
- 63..... **New Requirements of Freeboard Design for the C-43 West Storage Reservoir** – *Jing-Yea Yang*, Stanley Consultants Inc., Water Resources, West Palm Beach, FL
- 62..... **Northeastern Florida Bay and Joe Bay Estuarine Creek Data, 2001-2005** – *Mark Zucker*, USGS, Ft. Lauderdale, FL