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.

Poster Number

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


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
2006 Greater Everglades Ecosystem Restoration Conference

Poster Number


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
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


11........ Everglades Depth Estimation Network (EDEN) Digital Elevation Model Research and Development – John Jones, USGS, Eastern Geographic Science Center, Reston, VA
Poster Number

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


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 –

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
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 Decom 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 Science Center, U.S. Geological Survey, Reston, VA, USA

5 & 6

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
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
Poster Number

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


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