

## Sustainability Related Research FY 2016

July		
Department	Principal Investigator	Project Title
Biology	James Fourqurean	Florida Bay Mudbank Vulnerability Assessment
Biology	Deron E Burkepile	Impacts of sedimentation on herbivory and the control of algal communities and coral health on Florida coral reefs
Earth and Environment	Michael C Sukop	Urban Water Innovation Network (U-WIN): Transitioning Toward Sustainable Water Systems
August		
Department	Principal Investigator	Project Title
Biology	Joel Trexler	Analyzing the Impact of Changing Hydrologic Conditions along the Boundary of Everglades National Park
Electrical & Computer Engineering	Arif Islam Sarwat	CRISP Type 2: Collaborative Research: Towards Resilient Smart Cities
Biology	Heather Bracken-Grissom	DEEPEND: Deep-Pelagic Nekton Dynamics of the Gulf of Mexico
Biology	Kevin Boswell	DEEPEND: Deep-Pelagic Nekton Dynamics of the Gulf of Mexico
Southeast Environmental Research Center	Tiffany Troxler	Ecological Assessment of Florida Bay and adjacent Mangrove Wetlands
Applied Research Center	Leonel Lagos	Florida International University's Research Support to the Department of Energy's Office of Environmental Management
Biology	Joel Trexler	Freshwater fish monitoring in Water Conservation Area 3 and Everglades National Park

Epidemiology	Purnima Madhivanan	Global Health Fellows and Scholars Program
Environmental & Occupational Health	Shimelis Setegn	Human Impacts to Coastal Ecosystems in Puerto Rico (HICE-PR): A remote sensing, hydrologic, ecologic and socio-economic assessment with management implications
Southeast Environmental Research Center	Thomas A Frankovich	Linkages of Water Quality, Submerged Aquatic Vegetation and Wintering Waterfowl in Everglades National Park
Mechanical & Materials Engineering	Norman D Munroe	NACME Initiative at Florida International University
Library Operations	Daniel Gann	The South Florida Caribbean Inventory and Monitoring Network Undergraduate internship and training program Vegetation Mapping
Biology	James Fourqurean	The South Florida Caribbean Inventory and Monitoring Network Youth Internship and Training Program
Southeast Environmental Research Center	Henry Briceno	Water Quality Monitoring Program for the Village of Islamorada, Florida Keys
<b>September</b>		
<b>Department</b>	<b>Principal Investigator</b>	<b>Project Title</b>
Environment, Arts, & Society	Evelyn Gaiser	Assessing Near-Field and Landscape Scale Ecological Effects of the Modified Water Deliveries and Comprehensive Everglades Restoration Plan Projects in Northeast Shark River Slough, Everglades National Park
Biology	Kevin Boswell	Ecology of Forage Fishes in the Arctic Nearshore
Biology	Kevin Boswell	Examining the status and distribution of reef fish spawning aggregations in the Southeast Florida Coral Reef Initiative (SEFCRI) Region
Health Promotion and Disease Prevention	Jessy Devieux	Growing Up: Intervening with HIV positive adolescents in resource-poor settings
Physics	Laird H Kramer	HACU YLDF
Student Access and Success	Sonja S Montas-Hunter	Summer Food Service Program (ETS, EV3, UBMS) 2014-2018

Environment, Arts, & Society	Evelyn Gaiser	Urban resilience to climate change-driven extreme events
Earth and Environment	Mahadev Bhat	Veterans and Small Farmers Outreach Program in South Florida
<b>October</b>		
<b>Department</b>	<b>Principal Investigator</b>	<b>Project Title</b>
Finance	Shahid Hamid	Florida Public Hurricane Loss Model Project Model Enhancements to Estimate Losses from Storm Surge and Flooding 2013-2014
Computer Information Sciences	Shu-Ching Chen	Florida Public Hurricane Loss Model Project Model Enhancements to Estimate Losses from Storm Surge and Flooding 2013-2014
Earth and Environment	Leonard Scinto	LILA: Phase V: Loxahatchee Impoundment Landscape Assessment Tree Island, Ridge and Slough Studies
Earth and Environment	Michael S Ross	LILA: Phase V: Loxahatchee Impoundment Landscape Assessment Tree Island, Ridge and Slough Studies
Earth and Environment	Rene Price	LILA: Phase V: Loxahatchee Impoundment Landscape Assessment Tree Island, Ridge and Slough Studies
Environment, Arts, & Society	Evelyn Gaiser	LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research
Biology	Joel Trexler	Quantification of the aquatic faunal community and its effect on water quality in the Everglades Stormwater Treatment Areas (STAs)
Research & Economic Development	Maria Donoso	Rwanda Integrated Water Security Program (RIWSP)
Student Access and Success	Sonja S Montas-Hunter	South Florida CROP Consortium 2015-2016
Earth and Environment	Keqi Zhang	Transition of the Coastal and Estuarine Storm Tide Model to an Operational Model for Forecasting Storm Surges

November		
Department	Principal Investigator	Project Title
Earth and Environment	Keqi Zhang	Development of an Integrated Coastal Inundation Forecast Demonstration System in Caribbean Region ¿ Pilot Project for the Dominican Republic and Haiti
Earth and Environment	Jennifer Rehage	HABITAT SELECTION & MOVEMENT OF EVERGLADES FISHES IN RESPONSE TO SEASONAL HYDROLOGY: effects of variation in water levels & recession rates
Finance	Shahid Hamid	Hurricane Catastrophe Fund 2015-2020
Southeast Environmental Research Center	Tiffany Troxler	Linking Satellite and Soil Data to Validate Coastal Wetland "Blue Carbon" Inventories: Upscaled Support for Developing MRV and REDD+ Protocols
Southeast Environmental Research Center	Henry Briceno	LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research
Biology	John Kominoski	LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research
Arts, Sciences, & Education	Michael Heithaus	LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research
Earth and Environment	Rene Price	LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research
Chemistry	Rudolf Jaffe	LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research
Southeast Environmental Research Center	Tiffany Troxler	LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research
Politics & International Relations	Markus Thiel	Outreach Projects with the Scientific and Business Miami Communities
Electrical & Computer Engineering	Arif Islam Sarwat	Smart Grid: Game Changer for Lifestyle Elevation
Student Access and Success	Sonja S Montas-Hunter	Summer Food Summer Program food services for low income and first generation student who participate in the CROP Summer program.
Student Access and Success	Sonja S Montas-Hunter	Summer Food Summer Program food services for low income and first generation student who participate in the UPWARD BOUND Summer program.

December		
Department	Principal Investigator	Project Title
Biology	James Fourqurean	Baseline Monitoring of Canals in the Village of Islamorada
Electrical & Computer Engineering	Arif Islam Sarwat	CAREER: Cyber Physical Solution for High Penetration Renewables in Smart Grid
History	April Ruth Merleaux	Ecohumanities for Cities in Crisis
Civil & Environmental Engineering	Arindam Gan Chowdhury	FIU's Hurricane Loss Reduction for Housing in Florida
Civil & Environmental Engineering	Ioannis Zisis	FIU's Hurricane Loss Reduction for Housing in Florida
Politics & International Relations	Richard Olson	FIU's Hurricane Loss Reduction for Housing in Florida
Civil & Environmental Engineering	Mohammed A Hadi	STRIDE Internal Steering Committee
Institute of Water and Environment	Lakhdar Boukerrou	West Africa Water Supply
January		
Department	Principal Investigator	Project Title
Biology	F Javier Francisco Ortega	Conservation Action Plan for Haiti
Environment, Arts, & Society	Jeremy Kiszka	Conserving Sharks and Rays in the Southwest Indian Ocean
Health Policy & Management	Benjamin C Amick Iii	Cost-Benefit Analysis of SMART Hospitals in Four Caribbean Countries
Epidemiology	Purnima Madhivanan	Global Health Fellows and Scholars Program
Business	Brian Van Hook	The New Orleans Small and Medium Enterprise (SME) Resilience Assessment Project
Politics & International Relations	Richard Olson	The New Orleans Small and Medium Enterprise (SME) Resilience Assessment Project

<b>February</b>		
<b>Department</b>	<b>Principal Investigator</b>	<b>Project Title</b>
Earth and Environment	Krishnaswamy Jayachandran	Broadening Agriculture Science Education (BASE) for Hispanic Students through Florida - Texas - New Mexico Consortium
Biology	Kenneth Feeley	CAREER: Measuring the thermal tolerances of individuals, populations, and species and predicting plant species responses to climate change in the tropical Andes
Extreme Events Research Center	Juan Pablo Sarmiento	Disaster Risk Management in Business Education
Library Operations	Boyuan Guan	Miami-Dade Bicycle Route Planner
Arts, Sciences, & Education	Michael Heithaus	Tropical Conservation Institute
Southeast Environmental Research Center	Henry Briceno	WATER QUALITY MONITORING PROJECT FOR THE FLORIDA KEYS NATIONAL MARINE SANCTUARY (FKNMS)
Public Administration	Allan Rosenbaum	XXII Inter-American Conference of Mayors and Local Authorities
<b>March</b>		
<b>Department</b>	<b>Principal Investigator</b>	<b>Project Title</b>
Biology	Steven Oberbauer	Collaborative Research: Understanding the effects of increased freshwater inputs and salt water intrusion on the current and future greenhouse carbon balance of Everglade wetlands
Biology	John Kominoski	DISSERTATION RESEARCH: Sea level rise, vegetation regime shifts: implications for soil carbon storage and resilience in Everglades coastal wetlands
Human & Molecular Genetics	Kalai Mathee-Narasimhan	Global Health Consortium, Herbert Wertheim College of Medicine
Environmental & Occupational Health	Shimelis Setegn	Green Schools Challenge: Evidence-based Practice
Earth and Environment	Jennifer Rehage	Role of Florida Bay coastal embayments as fish habitat: nursery value and use by valuable recreational species

Earth and Environment	Jennifer Rehage	Role of Marsh-Mangrove Interface Habitats as Aquatic Refuges for Wetland Fishes and other Aquatic Animals
Biology	James Fourqurean	Seagrass monitoring in the Florida Keys National marine Sanctuary
<b>April</b>		
<b>Department</b>	<b>Principal Investigator</b>	<b>Project Title</b>
Global & Sociocultural Studies	Roderick P Neumann	Doctoral Dissertation Research: The Cultural Politics of Community Based Conservation Territories in Nepal's Chitwan National Park Buffer Zone
<b>May</b>		
<b>Department</b>	<b>Principal Investigator</b>	<b>Project Title</b>
Biology	Steven Oberbauer	Arctic Observing Networks: Collaborative Research: ITEX AON - understanding the relationships between vegetation change, plant phenology, and ecosystem function in a warming Arctic
Student Access and Success	Sonja S Montas-Hunter	Committing to Equity and Inclusive Excellence: Campus-Based Strategies for Student Success
Southeast Environmental Research Center	Todd Crowl	CREST: Center for Aquatic Chemistry and the Environment CACE
Biology	Ophelia I Weeks	FIU MARC U*STAR Program
Research & Economic Development	Andres G Gil	Florida International University-Health Disparities Initiative (FIU-HDI)
Southeast Environmental Research Center	Todd Crowl	LTER: LTER5: Understanding Ecosystem Change in Northeastern Puerto Rico
Global & Sociocultural Studies	Mark Padilla	Migration, Tourism and the HIV-drug use Syndemic in the Dominican Republic
Health Promotion and Disease Prevention	Consuelo Maria Beck Sague	Mother and Children FIRST! Fresh Ideas and Resources for Scholar Training
Southeast Environmental Research Center	Todd Crowl	ORNL: Next Generation Ecosystem Experiment Tropics in Puerto Rico
Extreme Events Research Center	Juan Pablo Sarmiento	The Disaster Resilience and Climate in the Americas Program (DRCAP)