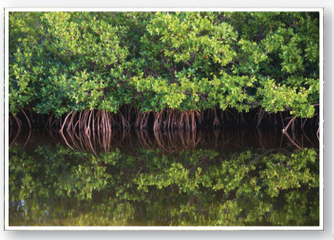
State University System Climate Change Workshop

November 14-15, 2011
University of Florida
Gainesville, FL



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Welcome

It is our pleasure to welcome you to the second State University System Climate Change Workshop. This event is an activity of the State University Research Commercialization Assistance Grant. Florida Atlantic University, Florida State University, and the University of Florida, joint recipients of this grant, initiated this effort based on our shared desire for cooperation on climate change. The impacts of climate change; sea level rise; temperature changes and changes in the amount, distribution and intensity of rainfall represent challenges to Florida's economy, environment, and the livelihoods of its citizens. We in the State University System (SUS), have a responsibility to bring the most current scientific findings together toward understanding, mitigating and adapting to a changing environment. We also have the responsibility of communicating inside and outside the classroom the knowledge about climate change, sea level rise, and societal response options to what is, arguably, one of the greatest challenges of our time.

As part of this project, the State Universities have collaborated in 4 working groups over the past 8 months to produce white papers that will be presented in today's program. In addition to the white papers, a State-wide database of university climate expertise has been created and will continually be updated with new profiles. The topics of the white papers are:

- Biodiversity and Land Use
- Climate Scenarios for Florida
- Education, Training, and Outreach on Climate Change
- Water Management and Coastal County Adaptation

Current expert data can be found at http://floridaclimate.org/expertfinder2.php.

The final white papers will be available December 1, 2012 at the Florida Climate Change Task Force website at http://www.floridaclimate.org/whitepapers.

The white papers presented today are both a product and a beginning of our collaboration. While they represent the latest climate-related research in Florida, they have also helped us to identify gaps in information that can inform future research and education efforts for our state. Our hope is to continue the statewide collaboration amongst universities, local and state agencies, and the private sector to more effectively address the needs of Floridians.

Sincerely,

Len Berry
Florida Atlantic University

Eric Chassignet
Florida State University

Jim Jones
University of Florida

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This State University System Climate Workshop agenda was developed with invaluable input from our program committee.

We would like to thank Doug Parsons, Florida Fish and Wildlife Conservation Commission, Jayantha Obeysekera, South Florida Water Management District, Leticia Adams, Florida Chamber of Commerce, Jay Levenstein, Florida Department of Agriculture and Consumer Services, and Karl Havens, Florida Sea Grant for their time and effort toward the success of this event.

Agenda: SUS CLIMATE CHANGE TASK FORCE WORKSHOP

Emerson Alumni Hall, University of Florida
November 14-15, 2011

November 14, 2011	
	Evening Session
5:00 pm	Reception and Poster Session
6:15pm	Welcoming Remarks: James Jones, University of Florida, Leonard Berry, Florida Atlantic University, Eric Chassignet, and Lynn Dudley, Florida State University
6:30pm	Keynote Address: Steve Seibert, Founder, The Seibert Law Firm
7:30pm	Keynote Presentation: Virginia Burkett, Senior Science Advisor for Climate and Land Use Change, U.S. Geological Survey
8:30 pm	Adjourn
November 15, 2011	
	Opening session
8:30am	Welcoming Remarks: Dr. Win Phillips, Vice President for Research, University of Florida
8:45am	Keynote Presentation: "Climate Change and Sea Level Rise in Florida" Jayantha Obeysekera, Department Director Hydrologic & Environmental Systems Modeling, South Florida Water Management District
9:30am	Presentations of White Papers • Biodiversity and Land Use • Climate Scenarios for Florida • Education, Training, and Outreach on Climate Change • Water Management and Coastal County Adaptation
10:30am	Break
	Panel 1 (Environment and Natural Resources)
10:45am	Coastal Ecosystems: Ernie Estevez, Director, Center for Coastal Ecology, Mote Marine Laboratory
11:00am	Biodiversity: Thomas Eason, Deputy Director, Division of Habitat and Species Conservation, Florida Fish and Wildlife Conservation Commission
11:15am	Water Management: Alison Adams, Source Rotation and Environmental Protection Manager, Tampa Bay Water
11:30am	Land Management: Todd Powell, Director-Real Estate, Plum Creek
11:45am	Facilitated Discussion: Jim Murley, Interim Executive Director, South Florida Regional Planning Council
12:15pm	Lunch
	Panel 2 (Economics and Policy)
1:45pm	City/County Climate Change Initiatives: Pegeen Hanrahan, Secretary of Board, ICLEI and former mayor of Gainesville, Florida
2:00pm	Regional Climate Change Initiatives: Steve Adams, Senior Advisor - Climate Adaptation, Institute for Sustainable Communities
2:15pm	Major Sector Climate Change Responses: Fred Bloetscher, Assistant Professor, Department of Civil, Environmental and Geomatics Engineering, Florida Atlantic University
2:30pm	Major Industry Climate Change Programs: Ray Butts, Director Strategic and Regulatory Planning, Florida Power & Light Co.
2:45pm	Facilitated Discussion: Steve Seibert, Founder, The Seibert Law Firm
3:15pm	Break
	Wrap – up session
3:30-4:30pm	Discussion, Final Comments, Adjourn

Project Leads

Florida Atlantic University – Dr. Berry

Leonard Berry, PhD, Distinguished Research Professor and Director, Florida Center for Environment al Studies

Dr. Berry , born in England, studied tropical environments in East and South Asia, and later in Eastern Africa, with 12 years residence in that area in various university positions. While in Africa, he developed an interest in natural resource management and rural development applied problems, including work on regional planning problems for the government of Tanzania.

He has a Ph.D. in physical aspects of tropical geomorphology from Bristol University, England. He has worked on hydrological issues in Africa, South America and the United States. He is a core member of the Inter American Water Resources Network and chairs the board of the WaterWeb Consortium, an international water information group. He has extensive administrative experience as Provost of Clark University and as Vice President for Academic Affairs at Florida Atlantic University from 1987-1993.

He has been the Director of the Florida Center for Environmental Studies since 1994. He has studied issues of climate change in Africa and the U.S. for the past twenty years, organized a workshop on climate change in Florida in January 2006 and a state-wide conference on climate change in Florida, May 2007, in Tampa, Florida. He was a member of the planning committee of the National Council for Science and the Environment (NCSE) conference on climate change, January 2008 and also of the Florida's Wildlife: On the Frontline of Climate Change, October 2008, and is a co-coordinator of Florida Atlantic University's Integrated Collaborative on Climate and Energy Initiative.

Florida State University – Dr. Chassignet

Eric Chassignet, PhD, Professor and Director, Center for Ocean-Atmospheric Prediction Studies (COAPS)

Professor Eric Chassignet came to Florida State University in March of 2006 to assume the directorship of the Center for Ocean-Atmospheric Prediction Studies (COAPS) after 15 years serving as a professor of Oceanography at the University of Miami Rosenstiel School of Marine and Atmospheric Sciences (RSMAS). He is a professor of Oceanography at the Florida State University, and the Co-Director of the Florida Climate Institute.

His background is in geophysical fluid dynamics and ocean modeling. His current area of research interest is on the role of the ocean in climate variability from the complementary perspectives of coupled ocean-atmosphere modeling and observations, with an emphasis on the study of the thermohaline circulation, western boundary currents, associated eddies and their impact on the world ocean circulation, and on the validation of the HYbrid Coordinate Ocean Model (HYCOM) with data assimilation capabilities.

University of Florida – Dr. Jones

Jim Jones, PhD, Distinguished Professor, UF Department of Agricultural and Biological Engineering

Dr. James W. Jones, PhD, is a Distinguished Professor and Director of the Florida Climate Institute. As a faculty member at the University of Florida in the Agricultural and Biological Engineering Department, he has conducted research and taught graduate classes for the last 35 years. He is an expert in cropping systems modeling and decision support systems. His research has focused on modeling the effects of climate on crops and on applying those models to study effects of climate variability and climate change on crop yield and to evaluate management options that minimize climate risks. He is PI and co-leads the Southeast Climate Consortium (SECC), a 3-state (Florida, Georgia, Alabama) Regional Integrated Science Assessment (RISA) center. The SECC conducts research on climate variability, agriculture, and water resources management and provides climate risk management information to farmers, foresters, and water managers through the Cooperative Extension Services in these states. He has led and participated in many interdisciplinary research programs nationally and internationally. He is author of more than 250 refereed scientific journal articles and teaches graduate courses on mathematical modeling and simulation of biophysical systems. He is a Fellow of the American Society of Agricultural & Biological Engineers, Fellow of the American Society of Agronomy, Fellow of the Soil Science Society of America, and serves on several international science advisory committees related to climate and agriculture.

White Paper Summaries

Biodiversity and Land Use

Principals/Leads: Susan Cameron Devitt, Jennifer Ruth Seavey

Contributors: Tom Hoctor, Reed Noss, Corrie Rainyn, Martin Main, Odemari Mbuya

Florida's abundant and unique biological resources are at particularly high risk for climate change impacts because of its low topography, extensive coastline, and frequency of large storm events. Climate change is already making large sweeping changes to Florida's landscape, especially along the coasts. The drivers of this change are both physical and biological in nature. Changes in air and water temperature, freshwater availability, salt water intrusion, ocean acidification, natural disturbance regime shifts (e.g. fire, storms, flood), and loss of land area have already been observed in Florida.

Florida's biodiversity is already responding to climate change through changes in physiology, distribution, phenology, and extinction risk. Physiological stress is being observed among marine species and northward movement is becoming more common as a result of temperature shifts. Unfortunately, for Florida, species movement brings increased risk for invasions by non-native species. Sea turtle nesting and tree flowering dates are shifting earlier in time to keep pace with increasing temperatures. Climate change also brings elevated extinction risks for Florida's numerous endemic species and species of conservation concern. Numerous direct economic benefits are associated with conserving Florida's natural resources, such as tourism, recreation, and fisheries. In addition, Florida's biodiversity and natural systems provide significant ecosystem services that benefit all the citizens of Florida.

Maintaining species and ecosystem resiliency is critical to conserving Florida's biodiversity, and we recommend an active adaptive management framework to achieve this goal. The application of adaptive management demands that science take a leading role in management to promote the conservation of natural resources; reduce other anthropogenic threats to biodiversity; consider the use of assisted migration and other adaptation strategies; create migration corridors; and promote strategy development that is both creative and experimental. Fortunately, there are numerous agencies, institutions, and scientists in Florida who can facilitate both improved scientific research and management of climate change impacts on biodiversity at federal, state and local levels.

To develop effective active adaptive management in Florida, several administrative challenges need to be addressed such as current interpretation of legislation, lack of funds, stakeholder conflict, self-serving behavior, and the pace of change. Adaptive management can unlock these options for science and management to effectively address Florida's biodiversity conservation in the face of climate change. The preservation of Florida's rich biodiversity in the face of climate change is imperative to maintaining the unique and unparalleled natural beauty of the state and the critical ecosystem services provided by these natural systems to the citizens of Florida.

Climate Scenarios: A Florida Centric View

Principal/Lead: Vasubandhu Misra

Contributors: Elwood Carlson, Robin K. Craig, David Enfield, Benjamin Kirtman, William Landing, Sang-Ki Lee, David Letson, Frank Marks, Jayantha Obeysekera, Mark Powell, Sang-Ik Shin

It is shown that Florida represents a good example of a complex regional climate system, where relatively slow natural climate variations conflate or deflate the multiple sources of anthropogenic climate influences. Climate change in this document refers to all sources of anthropogenic influences, including greenhouse gas (GHG) emissions, aerosols, and land cover and land use change. However the basic fact irrespective of the source of these variations and change is that Florida, with its vast and growing coastal communities and changing and growing demography will make itself more vulnerable to weather and climate events. With anticipation of further rapid increase in GHG emissions, it is prudent to act now in applying the necessary regional climate information that we have to educate the public and implement adaptation and mitigation plans. Some of the most apparent impacts of climate change and variability for Florida are as follows:

(i) Salt water intrusion from sea level rise is already becoming an issue for the freshwater demands of highly populated areas along the southeast coast, from the Florida Keys to Palm Beach. This issue may further worsen and become more widespread over time with climate change.

(ii) The displacement of communities, destruction of infrastructure and terrestrial ecology, and increased prospects of damage from storm surge would be additional consequence of sea level rise.

(iii) The likelihood of the change in the statistics of Atlantic tropical cyclone intensity has a huge implication for the sustenance of coastal and inland communities in terms of damage to infrastructure and property, human mortality, and the modulation of the accumulated fresh water source in the summer, especially in South Florida.

(iv) Remote impacts of any perceived climate change in the characteristics of El Niño and Southern Oscillation (ENSO; although none have been conclusively found so far) will have an implication on the seasonal climate variability over Florida, especially in winter and spring seasons.

(v) Likewise remote impact of climate change over North Africa can have implications on dust transport across the Atlantic Ocean, which can change the air quality and health of Florida's neighboring oceans.

(vi) The uncertainty in the anticipated changes in Florida red tide (a harmful algal bloom) due to changes in ocean temperatures, long term variations of local scale terrestrial runoff can make the fishing industry and the human population vulnerable.

(vii) Florida's coastal reefs, which serve as a habitat for a variety of biota, are threatened by ocean acidification from increased levels of dissolved carbon dioxide. There is anticipation of inevitable future increases in the wealth of Florida coastal communities, which would lead to further infrastructure development that will make the coastal regions far more susceptible to even moderate (and unanticipated) changes in climate.

It is recommended that, with existing climate information, effective climate scenarios could be developed in the near term that would be useful to plan and test sustainable strategies for adaptation and mitigation of climate-related vulnerabilities. Ongoing scientific research is bound to further improve our ability to understand and predict our climate system to meet the strident demands for accurate climate projection.

In addition the growing and aging population of Florida would make this State more vulnerable to climate variations and change. The demand for energy and water will proportionately grow, while changes in land cover, air quality, coastal waters from urbanization, industrialization and agriculture will be inevitable.

Several cross-disciplinary application studies on impacts of climate variability and change relevant to Florida and possibly other regions are suggested as a way to move forward in developing a sustainable and less vulnerable future for Florida.

Although it is pointed out in this document that sea level rise is one of the main issues confronting Florida in terms of the immediate impact of climate change, we have not included a description of it in this document. This is because there are several reports that have recently been released on sea level rise. They are listed below for our interested readers:

(i) Sea Level Changes in the Southeastern United States: Past, Present and Future (Mitchum 2011; available from http://coaps.fsu.edu/~mhannion/201108mitchum_sealevel.pdf)

(ii) Past and projected trends in climate and sea level for South Florida (Obeysekera et al. 2011; available from http://my.sfwmd.gov/portal/page/portal/xrepository/sfwmd_repository_pdf/ccireport_publicationversion_14jul11.pdf)

(iii) IPCC workshop on sea level rise and ice sheet instabilities (Stocker et al. 2010; available from http://www.ipcc.ch/pdf/supporting-material/SLW_WorkshopReport_kuala_lumpur.pdf) Thirsty for answers: Preparing for the water-related impacts of climate change in American cities (Dorfman et al. 2010; available from http://www.nrdc.org/water/thirstyforanswers.asp

Education, Training, and Outreach on Climate Change

Principal/Lead: Sebastian Galindo

Contributors: James W. Jones, Alana Edwards, Christine Lockhart, Carolyn Cox, Robert Ellingson, Julie Lambert, Allan Feldman, Jeffrey Ryan

Global climate changes are complex and challenging to communicate to society. As a consequence of this deficiency of communication and education, society lacks the means to adapt and mitigate the impacts of climate change, remaining incapable of pushing for effective, efficient, and equitable policies and actions on the matter. This communication challenge is evident in the Southeastern U.S., where broad sectors of the public remain unconvinced that climate change is a serious problem and scientists and educators in general lack the capability to translate sciences to lay audiences, making it harder for people to become informed or educated about climate science. Therefore, it is necessary to identify what educational opportunities are already available, and which ones are still needed, to broadly educate and inform relevant audiences.

The overall goal of this paper is to provide information on university climate change programs (research and education), university climate change institutes and centers, and initiatives statewide in Florida. The specific objectives are:1) describe the current status of climate change education within Florida, b) assess the extent at which educational needs related with climate change are being addressed, and c) identify action items required to enhance climate literacy of the State's population.

Through a systematic statewide effort, 406 courses with varying degrees of climate change content were identified within 12 surveyed institutions of higher education. Almost half of these courses are taught in disciplines within the physical sciences, and nearly a fourth belongs to the social sciences. The rest of the courses were part of the curricula of life sciences (75), interdisciplinary programs (31), and humanities (6). The courses were further classified based on the amount of climate change content that they included.

A set of educational needs were identified. The most important ones are: a) promote a stronger integration of climate change education with other sciences and disciplines; b) enhance students' access to current and future courses; c) develop the skills of scientists for translating scientific concepts to lay audiences; d) strengthen the preparation of K-12 science teachers to incorporate climate change concepts in their courses; and e) expand the integration of climate change education into Extension/outreach programs beyond agriculture and natural resources. Two strategies are proposed to address the identified needs. The first one contemplates the establishment of a state-wide, inter-institutional, and multidisciplinary minor/certificate on climate change. This program would enhance the access of students to a variety of courses on climate change, improve the capacity of future scientists for translating sciences, and promote the integration of climate change education into a variety of disciplines. The second strategy focuses on the development and delivery of training curricula to enhance the knowledge and skills of university faculty (both teaching and extension) and K-12 science teachers on two main areas: 1) the integration of climate change education into their courses/programs, and 2) the translation of scientific concepts to multiple audiences.

Florida Water Management and Adaptation in the Face of Climate Change: Protecting People, Infrastructure, Economies, and Ecosystem Services

Principal/Lead: Leonard Berry, Marguerite Koch-Rose, Diana Mitsova-Boneva, Tara Root

Contributors: Frederick Bloetscher, Jorge Restrepo, Ramesh Teegavarapu, Jaap Vos, Nicole Hammer

This paper addresses the variety of impacts that climate change will have on water resources in Florida. Because all sectors of Florida's economy, natural, built systems, and population rely on water, the cascading effects of climate change will impact most sectors and communities, with regional variations in timing and type of impact. Sea level is projected to rise through this century with impacts far inland. Current distribution and projected growth in population is concentrated in coastal and other vulnerable areas and 40 percent of national vulnerability to sea level rise is estimated to be in Florida .The effects of sea level rise go beyond inundation and flooding to include: salt water intrusion, increasing groundwater levels, loss of capacity to move water through gravity-driven control structures, and changing salinities in unique and sensitive coastal ecosystems.

The combined effects of sea level rise and changing precipitation and evapotranspiration patterns put the sustainability of Florida's sources for municipal water supply under question, and as sea level rise causes inland migration, the water sector will be faced with the challenge of developing new infrastructure in areas where previously they did not exist. Because demand for water is dependent on precipitation and temperature, there is significant uncertainty about how much water Florida will need in the future.

Climate change impacts on water resources are complex and are only just beginning to be understood. However, some utilities are already adjusting their planning to deal with changing conditions and energy needs are projected to grow steeply to meet the demand for water and wastewater treatment and for additional storm water systems. The effects of higher ground water levels will impact transportation systems as well. The traditional response to hurricanes and severe storms, which will need to be morphed into an adaptation/response to these long-term trends. Societal adaptive responses, such as the Southeast Florida Four County Compact, the City of Punta Gorda assessment, and the work of the Southwest Florida Regional Planning Commission and Florida Atlantic University will need to be the basis of a broader state-wide adaptation strategy. The long-term economic impact of these changes is of particular importance to many coastal areas as well as the state as a whole.

This report provides a brief overview of climate change scenarios for Florida and summarizes current demographics and water use information. This overview and summary provide a starting point for our examination of climate change impacts on water resources and related impacts on people, economies, infrastructure, and ecosystems. Because of the complexity of and interconnectivity of the issues discussed and the significant variation in geography, demographics, and economics across the state, a comprehensive state-wide treatment of these is not possible. Our aim is to provide the necessary background and overview to highlight key issues and foster further discussion, research, and action.

Lead Authors

Biodiversity and Land Use

Susan E. Cameron Devitt
Assistant Professor
Wildlife Ecology and Conservation
University of Florida

Dr. Susan Cameron Devitt joined the Wildlife Ecology and Conservation Department at the University of Florida as an Assistant Professor of Climate Change Ecology in 2010.

She received her PhD in Ecology from the University of California Davis in 2008 andwas mostly recently an Environmental Fellow at Harvard University's Center for the Environment and Museum of Comparative Zoology.

Susan studies how climate affects the distribution of plants and animals around the world and how those relationships change through time. She is particularly interested in adaptation strategies to minimize climate change vulnerability of biodiversity. She has ongoing research projects and collaborations in Mexico, Ecuador, Australia, and New Guinea in addition to the US.

Susan is a member of the Florida Climate Institute, the South East Climate Consortium and the Florida Climate Change Task Force. She is a founding member of the Global Women's Scholars Network, an NSF funded research coordination network to increase the participation of women in climate change and sustainability science around the world.

Jennifer Seavey
Postdoctoral Research Associate
Wildlife Ecology and Conservation
University of Florida

Jennifer Seavey is a landscape ecologist with expertise in coastal and climate change ecology. She is currently a post-doctoral research associate in the Department of Wildlife Ecology and Conservation at the University of Florida, Gainesville, where she is working on a number of projects regarding climate change, sea-level rise, and biodiversity. Jennifer earned her PhD from the Department of Environmental Conservation at the University of Massachusetts in 2009, where she studied piping plover (Charadrius melodus) breeding ecology and climate change impacts on barrier islands of New York. She received her MS from the Wildlife Science Program in the College of Forest Resource at the University of Washington and BS from the Department of Biology at Lewis and Clark College.

Climate Scenarios: A Florida Centric View

Vasu Misra
Assistant Professor, Department of Earth, Ocean and Atmospheric Science
Florida State University

I am an Assistant Professor in the Department of Earth, Ocean and Atmospheric Science in Florida State University. I am also affiliated with Center for Ocean-Atmospheric Prediction Studies and Florida Climate Institute. My primary research interest is in climate variability and predictability. My ongoing research is dwelling on southeast US hydro-climate variability and change, oceanic variability in the Intra-Americas Seas, ENSO and monsoon variations.

Education, Training, and Outreach on Climate Change

Sebastian, Galindo-Gonzalez
Research Assistant Professor
University of Florida

Dr. Galindo-Gonzalez is a Research Assistant Professor in the Department of Agricultural Education and Communication (AEC) of the University of Florida (UF). He earned his PhD degree from AEC in 2009, with a concentration in extension program development and evaluation, and had previously received the MS degree from the Department of Animal Sciences at UF and the DVM degree from the School of Veterinary Medicine at the Universidad Veracruzana (Veracruz, Mexico). Dr. Galindo-Gonzalez is currently responsible for designing and executing the evaluation components for a variety of multidisciplinary projects in collaboration with a number of scientists inside and outside UF. His experience also includes being a consultant on methodology and evaluation for projects conducted by the Rehabilitation Outcomes Research Center of the U.S. Department of Veterans Affairs, the Southeastern National Tuberculosis Center, and the Center for Aquatic and Invasive Plants at UF. Dr. Galindo-Gonzalez is affiliated with the UF/IFAS Center for Public Issues Education in Agriculture Natural Resources (PIE Center).

Florida Water Management and Adaptation in the Face of Climate Change: Protecting People, Infrastructure, Economies, and Ecosystem Services

Leonard Berry, see page 5 for more information.

Marguerite Koch
Professor and Assistant Director FAU Climate Change Program
Biological Sciences Department, Florida Atlantic University and Center for Environmental Studies

Dr. Koch hosts an active research program in marine ecology. She received her Ph.D. in Marine Biology and Fisheries from the University of Miami's Rosenstiel School of Marine and Atmospheric Science, an M.S. in Marine Science from Louisiana State University (LSU) through LSU's Center for Wetland Resources and Wetland Biogeochemistry Lab, and a B.S. in Biology from Tulane University in New Orleans, LA. She also studied coral reef ecology at the Fairleigh Dickinson University's Laboratory in St. Croix, Virgin Islands, fisheries and estuarine ecology at the University of Washington in Seattle, and was a graduate exchange scholar at the University of Exeter in England investigating nutrient cycling in coastal marine ecosystems. Currently, her primary research interest is in the sustainability and productivity of tropical marine ecosystems, such as seagrass, mangroves, and coral reefs. The majority of Dr. Koch's research over the last 15 years has focused on investigating stressors associated with tropical marine ecosystems living at the edge of stress tolerance to multiple parameters, such as high temperature and salinity. This focus on tropical stressors has led to her present research focus on biogeochemical changes in tropical marine ecosystems and ecophysiological responses of marine plants to thermal stress and ocean acidification. Dr. Koch is also the Assistant Director of the Climate Change Program at FAU through the Center for Environmental Studies.

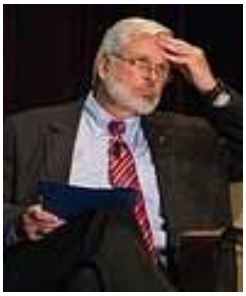
Diana Mitsova-Boneva
Assistant Professor, School of Urban and Regional Planning
Florida Atlantic University

Diana Mitsova holds a Ph.D. in Regional Development Planning from the University of Cincinnati and a Master's from the School of Public and Environmental Affairs at Indiana University Purdue University, Indianapolis. She joined the School of Urban and Regional Planning in August 2008 as an Assistant Professor. She has professional experience in geographic information systems applications, GPS data collection and image processing. Dr. Mitsova has a background in research design, statistical and spatial analysis, as well as geographic information systems. Her research focuses on historical and projected patterns of land cover change, open space conservation, water resource management, and environmental planning and modeling using geographic information systems, interactive computer simulation and spatial-statistical methods. Her expertise in spatial data analysis includes cellular automata, spatial regression modeling, Monte Carlo methods, geostatistics and integrated statistical/GIS models. Recently, she completed a study on the impact of urban runoff on Biscayne Bay water quality supported by a grant from the FAU Environmental Sciences Everglades Fellowship Initiative funded by the National Park Service (with Dr. Jaap Vos). She is also the Co-PI on a project entitled "Sea Level Rise Vulnerability Framework for USGS Ecosystem Portfolio Model" funded by USGS (with Dr. Ann-Margaret Esnard as the PI).

Tara Root
Assistant Professor, Department of Geosciences
Florida Atlantic University

Dr. Root received her Ph.D. and M.S. in Geology from the University of Wisconsin – Madison and a B.S. in Geological Engineering from the Colorado School of Mines. She has been a faculty member in the Department of Geosciences at Florida Atlantic University since 2005. One of her primary research interests is water resources sustainability. She has a particular interest in water use science and developing robust tools for quantifying water use. She also investigates human perceptions about the sustainability of water resources and evaluates how policies, such as watering restrictions, influence water use behavior. This research aids in developing water conservation policies and education and outreach programs. Dr. Root's teaching activities include both undergraduate and graduate courses in Water Resources, Environmental Issues, and Hydrogeology. She has additional research interests in groundwater chemistry and water-rock interaction and using the chemical composition of waters to characterize flow paths and surface water-groundwater interactions.

Keynote Speakers



Steven M. Seibert, J.D.

Founder, The Seibert Law Firm

Seibert is a 1977 graduate of The George Washington University, where he was chosen for *Phi Beta Kappa*, and is a 1980 graduate of the law school at the University of Florida. For the succeeding decade, he practiced environmental and land use law in both the public and private sectors.

Seibert was elected to the Pinellas County (FL) Commission in 1992 and served as its Chairperson twice. He chaired or sat on several regional and statewide committees, usually dealing with water, transportation, land use or environmental issues.

After re-election without opposition in 1996, Steve was tapped by Governor Jeb Bush to lead Florida's Department of Community Affairs and served in that capacity from 1999-2003. Governor Bush called Seibert "an outstanding public servant" and noted "his ability to bring people together to achieve meaningful reforms will be his lasting legacy."

Seibert is a member of the Board of Directors of The Mosaic Company (MOS), the world's leading producer of concentrated phosphate and potash crop nutrients. He was a charter Board member (created in 2004) and serves as Chairman of the Environmental, Health, Safety and Sustainable Development Committee, as a member of the Corporate Governance Committee and Nominating Committee, and served in the past on the company's Compensation Committee.

Seibert has operated his own law firm, served as the Executive Director of the *Century Commission for a Sustainable Florida*, and as a Senior Vice President and Director of Strategic Visioning for the *Collins Center for Public Policy.*

Steve Seibert has been a Florida Supreme Court certified mediator for 20 years and has gained a

Virginia Burkett, Ph.D.

Chief Scientist, Climate and Land Use Change
U.S. Geological Survey

Virginia Burkett serves as Chief Scientist for Climate and Land use Change at the U.S. Geological Survey. She was formerly Chief of the Forest Ecology Branch at the USGS National Wetlands Research Center. Burkett has also served as Secretary/ Director of the Louisiana Department of Wildlife and Fisheries, Director of the Louisiana Coastal Zone Management Program, and Assistant Director of the Louisiana Geological Survey. Burkett has published extensively on the topics of global change and low-lying coastal zones. She was a Lead Author of the United Nation's Intergovernmental Panel on Climate Change (IPCC) Third and Fourth Assessment Reports (2001 and 2007) and the IPCC Technical Paper on Water (2008). She was a lead author of the 2001 and 2009 National Assessments of climate change impacts produced by the United States Global Change Research Program. She is presently a Coordinating Lead Author of the IPCC Fifth Assessment Report that will be completed in 2014.

Burkett has co-authored reports for The Wildlife Society (2004), the United Nations Convention on Biodiversity (2005), the Everglades Task Force (2007), and the U.S. Department of Transportation (2008) that address climate change impacts and potential adaptation strategies. She presently serves on the editorial boards of two journals: Ethics in Science and Environmental Policy and Regional Environmental Change. Burkett has been appointed to over 40 Commissions, Committees, Science Panels and Boards during her career and was among the hundreds of IPCC authors who shared in the 2007 Nobel Peace Prize. Burkett received her doctoral degree in forestry from Stephen F. Austin State University in Nacogdoches, Texas in 1996.

Jayantha Obeysekera, Ph.D., P.E., D.WRE

Chief Modeler
South Florida Water Management District (SFWMD)

Jayantha Obeysekera holds a B.S. in Civil Engineering from University of Sri Lanka, M. Eng. from University of Roorkee, India, and a Ph.D. in Civil Engineering from Colorado State University. He has served as an Assistant Professor at Colorado State University and as an adjunct faculty at the University of South Florida. Dr. Obeysekera has published over 40 research articles in refereed journals and over 50 others in the field of water resources. He has taught short courses in the countries of Dominican Republic, Colombia, Spain, Sri Lanka, and U.S. He served as a member of National Research Council (NRC) committee on Klamath River and is currently a member of the NRC committee on California Bay Delta. He was appointed as an advisory team member to review the computer modeling of the New Orleans area in the aftermath of the hurricane Katrina. During his tenure at SFWMD, he managed the modeling for the development of the Comprehensive Everglades Restoration Plan (CERP). His group has also been instrumental in the application of climate outlook and projections for water resource planning and operations. Presently, he is the technical lead for climate change and sea level rise investigations at SFWMD. Recently, he was appointed to the National Climate Assessment and Development Advisory Committee (NCADAC) and as an Affiliate Research Professor at Florida Atlantic University.

Moderators

Thomas T. Ankersen, Legal Skills Professor and Director, Conservation Clinic, University of Florida Levin College of Law

Thomas T. Ankersen directs the Conservation Clinic at the University of Florida Levin College of Law. The Clinic promotes service learning through the provision of law and policy related services to the environmental community. These services encompass such diverse program areas as coastal ecosystem change, watershed law and policy, campus and community sustainability, and working waterfronts. Ankersen also serves as Florida Sea Grant's statewide legal specialist where he and his students serve coastal extension agents and communities across a range of issues. Ankersen is P.I. on a grant from the Climate Institute to address legal issues associated with climate change through the provision of fellowships to environmental and land use law graduate students. Ankersen also directs UF Law's Joint Program in Environmental Law with the University of Costa Rica, and serves as a Co-P.I. on an NSF funded UF Water Institute project to research climate change impacts to watersheds on the Pacific Coast of Central America. His most recent climate-related publication is entitled: "Shifting Baselines and Backsliding Benchmarks: The Need for a National Environmental Legacy Act to Address the Ecologies of Restoration, Resilience and Reconciliation," in Beyond Environmental Law: Policy Proposals for a Better Environmental Future, Donald M. Driesen and Alyson C. Flournoy (Eds.)(Cambridge University Press).

Jim Murley, Interim Executive Director, South Florida Regional Planning Council

Jim Murley has spent over three decades working on public policy issues important to Florida. Jim served has Secretary of the Department of Community Affairs under Governor Lawton Chiles working on comprehensive planning, economic development, energy and emergency management issues. He has served on various state commissions including the Florida Housing Finance Corporation, Florida Communities Trust and most recently served three years as the Chair of the Florida Energy and Climate Commission. Jim spent over 10 years with Florida Atlantic University overseeing research on urban and environmental issues. Jim currently holds the position of Interim Executive Director of the South Florida Regional Planning Council. In that capacity he is leading an effort to develop a Vision and Blueprint for Economic Prosperity for seven counties in Southeast Florida. Jim is a member of the South Florida Water Management District's Water Resources Advisory Commission and serves on several county level Task Forces focusing on energy and climate issues. He is a graduate of Leadership Florida and a Fellow in the National Academy for Public Administration.

Steve Seibert, see page 12 for more information.

Panel Information

Panel I: Environment and Natural Resources

Ernie Estevez

Director, Center for Coastal Ecology
Mote Marine Laboratory

Dr. Ernest Estevez received his Ph.D. from the University of South Florida and is the Director of the Center for Coastal Ecology at Mote Marine Laboratory, which he joined in 1979. Dr. Estevez has conducted ecological studies in three dozen Florida rivers and bays, and has worked for decades to link science to estuarine resource management programs throughout the state. A past president of the Florida Academy of Sciences and the Myakka Conservancy, with whom he received a Governor's Council for Sustainable Florida Award, Dr. Estevez is also the recipient of a Distinguished Alumni Award from the University of South Florida, and the Eugenie Clark Scientific Explorers Award. He has served on the Florida Oceans and Coastal Council since 2005.

Thomas H. Eason

Deputy Director, Division of Habitat and Species Conservation, Florida Fish and Wildlife Commission

Thomas Eason is a wildlife biologist and administrator with the Florida Fish and Wildlife Conservation Commission (FWC). He received his B.S. and M.S. in Wildlife Science at Virginia Tech and the University of Tennessee, respectively, and completed his Ph.D. in Ecology from the University of Tennessee. He began his career working on black bears during the summer of 1992 and studied various aspects of bear ecology until 2003 when he took on new duties as the Wildlife Diversity Manager for Florida. He now leads several major conservation efforts including Florida's Wildlife Legacy Initiative and serves as Deputy Director of the Division of Habitat and Species Conservation.

Alison Adams, Ph.D., P.E.

Source Rotation and Environmental Protection Manager, Tampa Bay Water

Dr. Alison Adams is currently the Supply Rotation and Environmental Protection Manager for Tampa Bay Water, the largest wholesale public water supplier in the state of Florida. Dr. Adams is a water resources engineer and has work in Florida on large-scale water supply and management problems for over 25 years. Currently she is directing research into climate variability and its effects on supply reliability for the Tampa Bay region and developing management strategies to mitigation these effects. Dr. Adams represents Tampa Bay Water as a member of the Water Utility Climate Alliance, is co-managing a project with University of Florida and the Southeast Climate Consortium on downscaling climate projections for using in the agency's integrated hydrologic model, and directs the agency's efforts on defining supply reliability under climate uncertainty. She is also responsible for implementing programs which optimize Tampa Bay Water's water supply and maximize environmental protection across the region. Dr. Adams was instrumental in the development of the agency's first Decision Support System which has served as the gateway for staff to access and use the agency's data, models, and analytical tools in support of real-time and long-term decisions.

Todd Powell

Director, Real Estate, Plum Creek

Plum Creek is the largest and most geographically diverse private landowner in the nation, with approximately 6.8 million acres in major timber producing regions of the United States.

Todd Powell directs Plum Creek's real estate activities in Florida.

Prior to joining Plum Creek, Powell worked at WCI Communities in various capacities including vice president of land acquisitions. He joined WCI after 10 years with Ernst & Young LLP where he was a senior manager in the company's business advisory services practice concentrating in mergers and acquisitions. Powell is a certified public accountant, has a Master in Business Administration from the University of Florida, and a Bachelor of Science degree in accounting from Bowling Green State University.

Powell currently serves on the board of directors for the Florida Chamber of Commerce and the Gainesville Area Chamber of Commerce as well as the board of trustees for the Florida Chamber Foundation. He is a member of the Urban Land Institute and the Florida Forever Business Council, and was named to the University of Florida Real Estate Advisory Board in 2010. He is also currently participating in the Leadership Florida program (Class XXX).

Panel II: Economics and Policy

Pegeen Hanrahan, P.E.

Principal, Community and Conservation Solutions, LLC

A Registered Professional Engineer and Principal of Community and Conservation Solutions, LLC, Pegeen Hanrahan was term limited in 2010 after twelve years of elective service and two terms as Mayor of Gainesville, Florida. She is a consultant to the Trust for Public Land's Conservation Finance Team, helping local governments develop and fund land conservation and parks. One of her primary areas of practice is in energy conservation and renewable energy deployment, with clients and collaborators including the Rockefeller Brothers Fund, the California CLEAN Coalition, and RES Partners of Tallahassee. Ms. Hanrahan has served as President of the Florida League of Mayors, and serves on the boards of ICLEI-USA: Local Governments for Sustainability, the Alliance for Renewable Energy (ARE), Florida State University's LeRoy Collins Institute, the University of Florida's Reubin Askew Institute, and the Mayors' Innovation Project. She holds Master's and Bachelor's degrees in Environmental Engineering and a B.A. in Sociology, all from the University of Florida. Pegeen and her husband, Tony Malone, are the delighted parents of Evyleen Mary, 6, Quinn Joseph, 4, and Tess Lucille, 9 months.

Steve Adams

Senior Program Advisor—Climate Adaptation, Institute for Sustainable Communities

Steve joined ISC as Senior Program Advisor for Climate Adaptation in October 2011. From 2009 – 2011, Steve was the Managing Director of the Climate Leadership Initiative where he managed community-based and sector-based adaptation projects in the Pacific Northwest, catalyzed the Southeast Florida Regional Climate Change Compact as a model for regional scale adaptation and co-founded the American Society of Adaptation Professionals to serve as a community of practice for practitioners working in various sub-fields of climate adaptation.

From 2007 – 2009, Steve served in the administration of Florida Governor Charlie Crist where he directed energy and climate change policy development, managed the staff of the Florida Energy and Climate Commission, and secured over $170M for Florida in energy-related funding under the American Recovery & Reinvestment Act. In 2007-2008, Steve served as the Staff Director for the Governor's Action Team on Energy and Climate Change and played a key role in developing and passing Florida's landmark 2008 Energy and Climate Bill (HB 7135). Previously, he served as the Policy Director for Florida's Department of Environmental Protection where he led agency-wide policy development on issues ranging from ocean protection to energy to information technology. In 2002-2003, he served at the U.S. EPA as Senior Advisor to Administrator Christie Todd Whitman's Environmental Indicators Initiative, an effort that resulted in the publication of EPA's first national environmental and human health assessment using environmental indicators. In 1997-1998, he developed and implemented the FDEP Environmental Performance Management System, an initiative that twice won recognition in the Innovations in American Government program sponsored by the Ford Foundation, the Council for Excellence in Government, and Harvard's Kennedy School of Government.

Frederick Bloetscher, Ph.D., P.E., DWRE, LEED-AP

Associate Professor, Florida Atlantic University

Dr. Frederick Bloetscher holds a Ph.D. in Civil & Environmental Engineering from the University of Miami, a Master of Public Administration from the University of North Carolina at Chapel Hill, and a B.S. in Civil Engineering from the University of Cincinnati. He is an Assistant Professor at Florida Atlantic University. His areas of expertise includes water resource management issues and utility management.

His past experience includes 11 years as Director or Deputy Director of large water and sewer utility systems in south Florida and managing two municipalities North Carolina. He has written over 180 papers concerning utility management and practice, most of which have been published in Florida or concerned south Florida issues. He has authored five books on water issues, tow of which relate to utility management issues.

He is past-Chair for the Board of Trustees for AWWA's Water Resource Division, past Chair of AWWA's education committee, Chair of the FSAWWA conference program committee served for three years as chair of the South Florida Water Management District's Utility Advisory Committee Chair.

Rayburn L. Butts

Director, Strategic and Regulatory Planning, Florida Power & Light Company

Mr. Butts works for Florida Power & Light Company where he is the Director of Strategic and Regulatory Planning in the Environmental Services Department. He is responsible for the analysis and communication of emerging environmental issues and regulations that have the potential to impact NextEra Energy Inc. He has 30 years of experience in the electric utility industry where he has been responsible for the development of regulations and legislation, power plant siting, permitting, licensing, construction and environmental sciences. His projects have included the remediation of hazardous materials contaminated sites; and environmental due diligence prior to the acquisition of existing and new energy related projects. In 2010, he was appointed by Governor Crist to the State Emergency Response Commission for Hazardous Materials.

Mr. Butts previously worked for the Southern Electric System at Southern Company Services in Birmingham, Alabama, where he served for eight years as an Engineering Geologist. While at Southern Company he held registrations as a Professional Geologist in South Carolina and Georgia. He received Bachelors (1980) and Masters Degrees (1986) in Geology from Auburn University in Auburn Alabama.

Poster Session

Last, Name	E- mail	Title of Poster	Poster Authors
Alvarez, Ricardo	hdalexander@ufl.edu	Climate change, fire, and carbon accumulation patterns within boreal forests of Alaska and Siberia	Heather D. Alexander, Michelle C. Mack, Scott Goetz, M. Loranty, Pieter S. A. Beck, Kamala Earl, Sergey Zimov, Sergey Davydov, and Catharine C. Thompson
Alvarez, Ricardo	ricardoalfonso@mitigat.com	Storm Surge and Climate Change: the Forgotten Factor	Ricardo A. Alvarez
Ayvaz, Melissa	ayvaz@ufl.edu	Paleotempestology at Pineland: Developing a Proxy Method that Integrates Archaeology with Climatology	Melissa Ayvaz
Baker, Shirley	sbaker25@ufl.edu	Breeding a Better Clam: Preparing the Florida Hard Clam Aquaculture Industry for Climate Change	Shirley Baker, John Scarpa, and Leslie Sturmer.
Bartels, Wendy-Lin	wendylin@ufl.edu	Warming up to climate change: A strategy for engaging with agricultural stakeholders in the southeast USA	Bartels, W., Furman, C., Fraisse, C., Zierden, D. Royce, F., Ortiz, B.
Benscoter, Brian	bbenscot@fau.edu	Linking Ecosystem Form and Function: Implications of Disturbance in a Changing Climate	Brian Benscoter
Biller, Nicole	Nbiller@ufl.edu	Evidence for Meltwater Pulse 1a in the Gulf of Mexico based on radiogenic isotopes	Nicole Biller, E. Martin, and B. Flower
Bronson, Stan	stan@floridaearth.org	USNC: Exchanging Climate Change Adaptation Knowledge	Stan Bronson, Nancy Beller-Sims and Paul Grosskruger
Carlton, Stuart	stuart.carlton@ufl.edu	Mental Models of Climate Change and Other Hazards in Citrus County, Florida	J. Stuart Carlton, S. K. Jacobson, T. Ruppert
Chapin, Tim	tchapin@fsu.edu	Integrating Accelerated Sea Level Rise Mitigation into Long Range Transportation Planning	Tim Chapin, Robert Deyle, and Harrison Higgins
Chu-Agor, Maria	mlcagor@ufl.edu	Quantifying the changes in beach habitat due to long-term sea level rise, storm erosion, and re-nourishment	M.L. Chu-Agor, J.A. Guzman, G.A. Kiker, R. Muñoz-Carpena, I. Linkov
Claytor, Sieara	sclayto@ufl.edu	A Review of Climate Change Impacts on Ecosystem Services in Florida	S.C. Claytor, J.R. Seavey, S.E. Cameron Devitt
Cole, Trevor	colet1223@ufl.edu	Calibrating the timing of past changes in sea level	Trevor Cole and Andrea Dutton
Comstock, Ian	icomstock@ufl.edu	Comparisons of Hurricane Rainfall Totals as Estimated by Radar and Florida Automated Weather Network Rain Gauges	Ian Comstock, C. Matyas
Dhanak, Manhar	dhanak@fau.edu	Sensor Platforms for Ocean Observation	Manhar Dhanak, Edgar An, Pierre Beaujean, Karl von Ellenrieder
DiGruttolo, Nicholas	ndigrutt@ufl.edu	Marrying Topography and Tides	Nicholas DiGruttolo and Dr. Ahmed Mohamed
Dourte, Daniel	ddourte@ufl.edu	Climate Variability to Climate Change: Extension Challenges and Opportunities in the Southeast USA	Dan Dourte, Clyde Fraisse
Edwards, Alana	aedwards@fau.edu	Climate Science Investigations (CSI): South Florida Using NASA Data to Improve Young Adults' Climate and Science Literacy	Dr. Julie Lambert, Dr. Brian Soden, Dr. Robert Bleicher, Alana Edwards

Last, Name	E- mail	Title of Poster	Poster Authors
Fenn, Chelsea	cfenn@ufl.edu	Seawater and Detrital Marine Pb Isotopes as Monitors of Antarctic Weathering Following Ice Sheet Development	Chelsea Fenn, Ellen. E Martin, Chandranath Basak
Gelcer, Eduardo	egelcer@ufl.edu	An AgroClimate web tool for ARID (Agricultural Reference Index for Drought) monitoring	Eduardo Gelcer, Tiago Zortea and Clyde Fraisse
Gonzalez, Carlos	cgonzabe@ufl.edu	Flexible Hybrid Models of Life Cycle Carbon Balance for Southern Pines Plantations	Carlos A. Gonzalez Benecke, Timothy A. Martin, Eric J. Jokela, Wendell P. Cropper Jr., and Rafael De La Torre
Hall, Jaclyn	hall.jaclyn@gmail.com	Forest increase and ecosystem services- Is it always win-win?	Jaclyn Hall, Eric Lambin, University of Louvain-la-Neuve
Heimlich, Barry	barryces@bellsouth.net	A Probabilistic Method for Estimating Sea Level Rise Exceedances	Barry N. Heimlich
Hollander, Gail	hollande@fiu.edu	Anticipating Sea Level Rise: Looking to the Past and the Future in Miami-Dade	G. Hollander, P. Harlem, M. Ross, H. Gladwin, B. Hall, S. Mic, E. Eisehnauer
Horn, Josh	hornjl@ufl.edu	Urban forest change and greenspace management in Orlando, Florida	Josh Horn, F. Escobedo, R. Hinkle, and M. Hostetler
Hu, Jing	hjing@ufl.edu	Hydrological and biogeochemical controls on the nitrous oxide (N2O) production and consumption in subtropical isolated wetlands	Jing Hu, Kanika S. Inglett, Mark W. Clark, K. Ramesh Reddy
Keellings, David	nessie@ufl.edu	Investigating Drivers of Maximum Daily Temperatures in Florida using Extreme Value Analysis	David Keellings and Peter Waylen
Koch, Marguerite	mkoch@fau.edu	Elevated temperature/pCO2 synergistic effects on tropical marine macroalgae and seagrasses	Joshua Filina, Marguerite S. Koch, Katherine E. Peach, Marisa E. Charneco, Elizabeth Durta
Lockhart, Chris	clockha2@fau.edu	Development of a Methodology for the Assessment and Mitigation of Sea Level Rise Impacts on Florida's Transportation Modes and Infrastructure	Leonard Berry, F. Bloetscher, E. Kaisar, J. Rodriques-Seda, R. Teegavarapu and N. Hammer
Lockhart, Chris	clockha2@fau.edu	Florida Atlantic University's Role in Developing a National Climate Change Curriculum	Mantha Mehallis, L. Berry and N. Hammer
Lockhart, Chris	clockha2@fau.edu	Overview of FAU Research Priority Area: Climate Change Research, Engineering and Adaptation to a Changing Climate	Leonard Berry, M. Koch and N. Hammer
Lopes, Aline	alineplopes@gmail.com	Simulation of carbon storage scenarios using different forestry systems to offset greenhouse gas emissions from a typical cow-calf operation in Florida	Aline Lopes, M. Kohmann, C. Fraisse
Lovering, Jessica	jswaney@ufl.edu	Influence of Sea Level Rise and Marsh Hypsometry on the Equilibrium Morphology of Tidal Inlets	Jessica Lovering and Peter Adams
Lu, Qing-Chang	tranlqctj@gmail.com	Sea-level Rise Impacts on Transportation and Economic Analysis of Its Adaptation Strategies	Qing-Chang Lu, Zhong-Ren Peng, Fei Yang

Last, Name	E- mail	Title of Poster	Poster Authors
Martin, Timothy A.	tamartin@ufl.edu	PINEMAP – Pine Integrated Network: Education, Mitigation and Adaptation Project; Mapping the future of southern pine management in a changing world; a NIFA-funded Coordinated Agriculture Project	Timothy A. Martin, Gary Peter, Martha Monroe, Tom Fox, Jessica Ireland
Matyas, Corene	matyas@ufl.edu	Forcings associated with changes in the areal coverage of tropical cyclone rain fields after landfall	Corene J. Matyas
Mozumder, Pallab	mozumder@fiu.edu	Enhancing Coastal Resilience: Synergies in Hurricane Mitigation, Insurance Reform, and Climate Change Adaptation Initiatives	Evan Flugman, Pallab Mozumder
Nagarajan, Karthik	nagkart@ufl.edu	Impact of climate variability on spatial distribution of soil moisture and crop growth at field scales under dynamic land cover conditions	Karthik Nagarajan, Jasmeet Judge
Natali, Susan	natali@ufl.edu	Effects of permafrost degradation on tundra carbon balance	Susan M. Natali, Edward A.G. Schuur
Nettleman, Charles	charles.nettleman@gmail.com	Understanding How Climate Change Will Affect Title to Coastal Property	C.A. Nettleman, III, A. Abd-Elrahman, G. Barnes, T. Ruppert, B. Dewitt, T. Fik
O'Brien, James	jim.obrien@coaps.fsu.edu	A Web Link to Probability of the Number of Big Rain Events in Florida	James J. O'Brien, Steven Armstrong, Preston Leftwich, and David Zierden
Ogurcak, Danielle	dogur001@fiu.edu	The Influence of Disturbance, Seasonality, and Hydrologic Controls on Plant Community Boundary Dynamics in the Lower Florida Keys	Danielle E. Ogurcak and M. S. Ross
Parra, Sabrina	sabrimar@ufl.edu	Storm surge and water current comparison at Mobile Bay between Hurricanes Katrina and Ivan	Gisselle Guerra, Sabrina Parra
Pearlstine, Leonard	leonard_pearlstine@nps.gov	Landscape vegetation succession modeling for Everglades restoration and sea level rise	Leonard Pearlstine, Steve Friedman, Matthew Supernaw, and Eric Swain
Pugh, Emily	emilyrpugh@ufl.edu	Verification of Nd isotopes as a water mass tracer based on isotopic evaluation of Cretaceous detrital residues from Demerara Rise	Emily R. Pugh, Ellen E.Martin
Radke, Elizabeth	bethradke@epi.ufl.edu	Ciguatera fish poisoning and seawater temperature in St. Thomas, USVI	Elizabeth Radke, Vasu Misra, Lynn Grattan, Sparkle Roberts, Margaret Abbott, Glenn Morris
Rouse, Donielle	rousds@gmail.com	Comparison of storm-total rainfall among tropical cyclones with tracks similar to Irene (2011)	Donielle Rouse, Britany Ziems, and Corene Matyas
Russo, Alessio	alessio.russo@unibz.it	Green spaces and urban climate regulation in cities of South Tyrol, Italy	Alessio Russo, F. Escobedo, and S. Zerbe
Ryan, Jeffrey	ryan@mail.usf.edu	The Coastal Areas Climate Change Education (CACCE) Partnership Development and Planning Efforts for Climate Change Education in Florida and the Caribbean	Ryan, J.G., Feldman A., Muller-Karger F., Gilbes, F., Stone, D., Plank, L., Peterson, M., Herman, B., Trotz, M., Meisels, G., and Reynolds, C.J. Trotz

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Schroeder, Robert	rschroed@fiu.edu	Estimating Net Carbon Sequestration or Release from Simulated Everglades Tree Islands Using Soil CO2 Efflux and Litter Mass	Robert Schroeder, A. Serna, L. Scinto
Schuur, Ted	tschuur@ufl.edu	Vulnerability of Permafrost Carbon Research Coordination Network	Edward AG Schuur, A.D. McGuire, J. Canadell, J. Harden, P. Kuhry, V. Romanovsky, M. Turetsky, and C. Schaedel
Seavey, Jennifer	jseavey@ufl.edu	Between the river and the deep blue sea: how freshwater limitations aggravate sea level rise impacts.	Dr. Jennifer Seavey and Dr. Susan Cameron Devitt, Wildlife Ecology and Conservation, University of Florida, Gainesville
Shen, Suwan	swshen@ufl.edu	Impact Analysis Based Land Use and Infrastructure Adaptation Planning to Climate Change	Suwan Shen, Zhong Ren Peng
Shin, DW	shin@coaps.fsu.edu	A new framework for an integrated climate application system	DW Shin, G. Baigorria, S. Cocke, J. J. OBrien, J. W. Jones, D. Letson, D. Solis, and N. Breuer
Smith, Thomas	tom_j_smith@usgs.gov	Will non-native, exotic mangroves in south Florida expand their ranges? An assessment using down scaled AOGCM climate model projections	Thomas J. Smith III, Lydia Stefanova, Vasubandhu Misra, Paul R. Nelson, and Ginger Tiling-Range
Stefanova, Lydia	lstefanova@fsu.edu	Non-gaussian distribution of winter-time daily minimum and maximum temperatures	Stefanova Lydia, P. Sura, and M. Griffin.
Stefanova, Lydia	lstefanova@coaps.fsu.edu	Winter cold outbreaks and manatee mortality	Lydia Stefanova and Catherine Langtimm
Tian, Di	tiandi@ufl.edu	Forecasting regional reference evapotranspiration using Global Forecast System reforecasts	Di Tian and Christopher J. Martinez
Tsai, HuiPing	htsai@ufl.edu	An assessment of vegetation responses to precipitation variability in Florida	HuiPing Tsai, Jane Southworth, Peter R. Waylen, Youliang Qiu
Volk, Michael	mikevolk@ufl.edu	Predicting and Mitigating the Effects of Sea-Level Rise and Land-Use Change on Imperiled Species and Natural Communities in Florida	Tom Hoctor, UF Center for Landscape Conservation Planning, Reed Noss, University of Central Florida, Jon Oetting, Florida Natural Areas Inventory, Michael Volk, University of Florida
Waylen, Peter	prwaylen@ufl.edu	Estimating Historic Precipittaion Inputs into Lake Mweru, Zambia.	P.Waylen, C. Annear and Y. Qiu
Ye, Ming	mye@fsu.edu	Coastal Zone Responses to Sea-Level Rise: Numerical Modeling and Uncertainty Analysis	Ming Ye, Heng Dai, Alan Niedoroda, Dejun Feng, Steve Kish, Joseph Donoghue
Zierden, David F.	dzierden@coaps.fsu.edu	The Florida Climate Center	Griffin, M. L., Preston L., and O'Brien J.J.
Zweig, Christa	czweig@ufl.edu	Climate Change Effects in the Big Bend of Florida	Christa Zweig, H.F. Percival, M. Allen, W. Kitchens, and M. DeSa

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