



Florida Climate Institute

K I C K O F F



November 16, 2010, 2-7pm, FSU Alumni Center, Tallahassee, FL

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Welcome

Dear Colleagues, Students, and Guests,

Thank you for joining us for the Florida Climate Institute Kickoff.

The Florida Climate Institute (FCI) is a joint venture between the University of Florida and the Florida State University. Our goals are to develop and disseminate scientifically sound information on climate variability and climate change, to enhance understanding of the interrelationships among climate, natural resources, ecosystems and society, to develop decision support systems for addressing risks and opportunities, and to promote effective partnerships among universities and broader community stakeholders.

Only the cooperative efforts of a broad range of scientists and scholars will allow us to meet the challenges of climate change and sea level rise. The FCI was conceived to support this interdisciplinary approach recognizing that the issues we face cross all political, disciplinary, and professional lines and may affect all segments of society. Our collaborators include researchers from organizations and institutions throughout Florida and around the nation.

We are pleased to have a wide range of attendees here today. We look forward to learning how we can serve Florida's needs for research and education and to working with you to develop programs that meet these needs. We also encourage your continued active participation in the FCI.

Sincerely,

Handwritten signature of James W. Jones.

James W. Jones
FCI Director
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Handwritten signature of Eric P. Chassignet.

Eric P. Chassignet
FCI Co-Director
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About the FCI

The **Florida Climate Institute (FCI)** is working to build a more sustainable future by improving our understanding of and identifying appropriate local to regional responses to climate variability and change. Research, teaching, and outreach programs of the FCI will help reduce climate risks to the economy, natural and managed ecosystems, and the built environment.

The FCI is a joint venture between the University of Florida and the Florida State University and includes researchers from additional organizations and institutions in Florida and around the nation. Although the FCI is based in Florida and we have expertise and projects in the Southeast USA, our research, teaching, and outreach programs are being conducted in many regions around the world.

Challenges

Climate variability and change pose significant economic, food security, and environmental risks worldwide. Drought, storms with heavy rain, high winds, flooding, and freeze events cause millions of dollars in losses to the agricultural and natural resources sectors each year in Florida and billions of dollars globally.



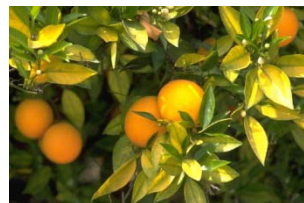
The Fourth Assessment Report (AR4) of the Intergovernmental Panel on Climate Change (IPCC), issued in 2007, predicts that by the year 2100 global average temperature is likely to

increase by 1.1 to 6.4°C (2 to 11.5°F), global mean sea level will rise from 0.18 to 0.59 m (7 to 23 inches), and increases in precipitation intensity and variability will increase the risks of both flooding and drought. The projected impact on Florida for temperature is on the lower side while the forecast for sea level rise is higher.

The IPCC AR4 also states that many regions will experience considerable deviations from the global averages. There is tremendous uncertainty regarding the local impacts of global changes.

Much of the climate change information communicated to the public is based on IPCC projections that are at the global level and relatively long-term (50 to 100 years). However, many decision makers, such as policy makers, farmers, and the public, need information at local to regional levels and at shorter time scales (10 to 30 years).

Decision makers need reliable, scientifically sound, locally specific climate information at multiple time scales to help evaluate various options for climate change adaptation and mitigation.



Mission

To meet the needs of climate decision makers, the FCI will:

- 1) Promote effective partnerships among universities and broader community stakeholders.
- 2) Provide links to scientific expertise on climate change, climate variability, and sea level rise.
- 3) Identify needs in the state for research and education programs on climate change, variability, and sea level rise.
- 4) Seek funding for scientific research and education programs to serve the needs of Floridians for information on potential impacts and adaptation responses to threats of climate change and sea level rise.
- 5) Provide an independent evaluation of the many Florida-specific climate change scenarios, sea level rise estimates, and datasets.
- 6) Develop proposals for research and education programs in response to federal and other funding opportunities to meet the needs of the state.
- 7) Disseminate scientifically sound information on Florida climate change and associated societal response options.
- 8) Become a source for AR5 evaluation and assessment.

Staff



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Steering Committee



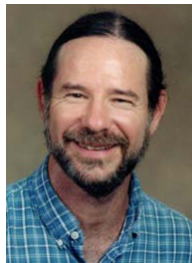
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Opportunities for Involvement

Affiliate Membership

The FCI is made up of a diverse group of affiliate members interested in sharing research and skills related to climate issues. Anyone with a strong interest in climate research, teaching or outreach can register as an affiliate member through the FCI website. Affiliates are added to the FCI mailing list and notified of upcoming seminars, initiatives and opportunities. Visitors may search the FCI member database by name, institution, occupation, specialty, or keyword. For more information, visit FloridaClimateInstitute.org and click on the “Join Us” or “Member Search” links in the header.

Seminar Series

Please join us for our monthly seminar series! Our seminars feature leading climate researchers from the University of Florida (UF) and Florida State University (FSU), as well as special guests from academic, government, and private organizations. Disciplines include law, public policy, ecology, environmental engineering, urban planning, and more! The location of the live presentations alternate between UF and FSU, and the presentations are transmitted via video to the non-host institution. For more information, visit the “Events” page at FloridaClimateInstitute.org. Past presentations are archived on the “Presentations” page.

Working Groups

The FCI is establishing working groups to engage key sectors of society and respond to the needs of external partners across the state. These working groups will foster interdisciplinary communities of science to address the broad issues associated with climate change, climate variability, and sea level rise. Planned working groups are in the areas of public policy, public health, fish and wildlife, forestry, and invasive species. If you interested in being a part of a working group, please email info@floridaclimateinstitute.org.

Peer Review Services & Expert Assistance

Climate experts at the FCI are available to review and provide expert assistance for climate models, programs, and other products developed at academic institutions, government agencies, and private organizations. To submit a product for review, please email info@floridaclimateinstitute.org.

Climate Information for Managing Risks Symposium

Mark your calendar to take part in the Climate Information for Managing Risks (CIMR) symposium on May 24-27, 2011, in Orlando, FL. CIMR 2011 will emphasize the challenges of applying climate information and predictions at local and regional levels for regions and locations around the world. This event is co-hosted by UF’s Institute of Food and Agricultural Sciences, the Southeast Climate Consortium, and the FCI. The event website is <http://conference.ifas.ufl.edu/cimr/>.

Annual Open House

During the fall of 2011, the FCI will begin offering an annual open house for climate researchers, students, and stakeholders to share information about climate-related projects, challenges, and opportunities. Details will be posted at FloridaClimateInstitute.org and emailed to FCI affiliate members.

For More Information

Visit FloridaClimateInstitute.org or email info@floridaclimateinstitute.org. FCI updates and news are also posted to the FCI Facebook page; to join, search Facebook for “Florida Climate Institute” or click on the Facebook icon in the top right corner of FloridaClimateInstitute.org.



Agenda

2:00-2:10pm Introduction by James W. Jones **Director of the Florida Climate Institute**

Dr. James W. Jones is a Distinguished Professor at the University of Florida Department of Agricultural and Biological Engineering. He has conducted research for more than 30 years on impacts of climate change on cropping systems, and for more than 10 years on climate forecasts for agriculture and water resources risk management in the Southeast USA. Dr Jones is a developer and co-leader of the Southeast Climate Consortium (SECC), a NOAA Regional Integrated Sciences and Assessments (RISA) Center of eight universities in five states. The SECC conducts research on climate change and variability for use in adaptive management of agriculture and natural resources (SEClimate.org and AgroClimate.org). In addition, Dr. Jones is a founding developer of the International Consortium for Agricultural Systems Applications, which advances data and interface protocols for integrating models of soil, climate, crops, and management for use in research on management of cropping systems and assessment of climate effects on production of crops. He has also been an organizer and teacher in many courses worldwide on concepts and applications of agricultural systems models for assessment of climate and management responses during the last twenty-five years.



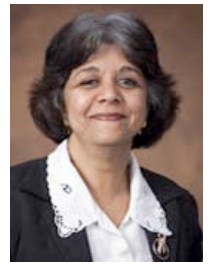
2:10-2:20pm Welcome from Kirby Kemper **Vice President for Research at Florida State University**

Dr. Kemper, or "K-Squared," as he's often called by his physics colleagues, came to his position as vice president of Florida State in 2003 as a trusted and highly respected researcher, teacher and administrator. A nuclear physicist by training, Kemper served as chairman of the physics department from 1997 to 2003. In 2002, Kemper was awarded the ultimate accolade of his fellow academics at Florida State, being named a Robert O. Lawton Distinguished Professor. In nominating him for the honor, Nobel laureate Robert Schrieffer, former chief scientist of the National High Magnetic Field Laboratory, described Kemper as "a highly distinguished nuclear physicist with an outstanding worldwide reputation" with more than 200 refereed publications to his credit. Kemper also is cited for his devotion to undergraduate teaching and graduate training (he directed the physics department's graduate education program for six years in the 1980s) and an "infectious enthusiasm" that has won him praise from three generations of students.



2:20-2:30pm Welcome from Sobha Jaishankar
Assistant Vice President for Research at the University of Florida

Dr. Jaishankar came to her position as Assistant Vice President for Research at the University of Florida in 2005. At UF, Sobha manages the Research Support unit of the Office of Research. Her office works with the various colleges to foster collaborations and assist in the preparation of large interdisciplinary institutional research proposals. Dr. Jaishankar came to UF from the University of Tennessee Health Science Center (UTHSC) in Memphis where she was Director for Research Programs and Director of the Office of Human Subject Protections. She obtained her PhD in Molecular Parasitology from UTHSC and completed postdoctoral training in the genetics and biology of Ewing sarcoma at St. Jude Children's Research Hospital.



2:30-3:00pm Special Guest Nick Wiley
Executive Director of the Florida Fish and Wildlife Conservation Commission

Nick is a Certified Wildlife Biologist employed by the Florida Fish and Wildlife Conservation Commission (FWC) as the Executive Director. He has more than 22 years of professional experience in fish and wildlife management, mostly in Florida, and has served in a leadership capacity in various FWC programs including alligator management, small-game management, conservation lands management, Director of the Division of Hunting and Game Management, and Assistant Executive Director. Nick has a Bachelor of Science Degree in biology from Georgia Southern University and a Master of Science Degree in Wildlife Science from Auburn University.



3:00-3:30pm Special Guest Eileen Shea
Chief of NOAA Climate Services

Ms. Shea is Chief of the Climate Services Division of the NOAA National Climatic Data Center (NCDC) and Director of the NOAA Integrated Data and Environmental Applications Center (NOAA-IDEA). She is responsible for NCDC programs in data access; data integration and visualization; user engagement; education and outreach; and regional, national, and international climate service partnerships. She has written extensively about assessing the consequences of climate variability and change. Her previous academic experiences focused on marine sciences and environmental law. During her time with NOAA she helped organize the NOAA Climate and Global Change Program and the inter-agency US Global Change Research Program. She served for two years on the Board on Sustainable Development of the US National Research Council and has experience with NOAA's Regional Integrated Science and Assessment (RISA) Program focused on societal resilience to environmental change.



**3:30-3:45pm Special Guest Segundo J. Fernandez
Environmental Attorney at Oertel, Fernandez, Cole & Bryant**

Mr. Fernandez has served as Assistant General Counsel with the Florida Department of Environmental Regulation from 1977 to 1980, and as Deputy General Counsel of the agency from 1980 to 1983. He holds a B.S. in Biology from the University of Miami, a J.D. from Samford University, Cumberland School of Law and an LL.M. in Ocean and Coastal Law (area of concentration: environmental and land use law) from the University of Miami. Since entering private practice, a substantial portion of his practice has involved representation of private industry, including member companies of FPPAEA, Inc. land developers, chemical manufacturers and mining concerns in areas of air and water pollution, water resources, infrastructure permitting, and solid and hazardous waste matters. He has also served as outside environmental counsel to numerous counties and cities throughout the state.



**3:45-4:00pm Special Guest Laurens van der Tak
Deputy Global Service Leader for Water Resources and Ecosystems Management, CH2M HILL**

Mr. van der Tak is a Vice President and Principal Water Resources Engineer with CH2M HILL in Silver Spring MD. He has 22 years experience on projects involving: climate change adaptation; hydrologic, hydraulic and water quality monitoring and modeling; stormwater and watershed management; wastewater collection systems; water resource systems; and GIS applications. He has degrees in biology, agricultural engineering, and civil engineering from Cornell University, the University of California at Davis, and the Massachusetts Institute of Technology. He is a member of WEF, IWA and AWWA, and is the Vice-Chair of AWWA's Climate Change Committee.



**4:00-4:15pm Special Guest Kathy Baughman McLeod
Director of the Public Policy Group at Bryant Miller Olive**

Kathy Baughman McLeod is the head of the Public Policy Group at Bryant Miller Olive, a Florida law firm. As Director of Public Strategy, Ms. Baughman McLeod develops and manages the consultancy that helps clients build effective business strategies; establish political, corporate, and governmental partnerships at the local, state, federal and international level; identify and address political and regulatory risks; and prepare for and take advantage of the new low-carbon economy. She is an appointee of the Governor to the Florida Energy and Climate Commission and a national board member of the Clean Energy States Alliance.



**4:15-4:45pm Special Guest James F. Murley
Chair of the Florida Energy & Climate Commission**



Jim Murley serves as Assistant Dean for External Affairs, College for Design and Social Inquiry and Senior Advisor for Energy and Climate Change at Florida Atlantic University. Governor Charlie Christ appointed Jim as the first Chair of the Florida Energy and Climate Commission. Jim also serves as Vice Chair of the Miami Dade County Climate Change Advisory Task Force and is a member and chair of the Build Environment Committee of the Broward County Climate Change Task Force. Jim is Chair of the Sustainability Committee of the Urban Land Institute's Southeast Florida/Caribbean District Council and is a member of Mayor of Miami Dade County's new Sustainability Advisory Board. Jim is a former Secretary of the Florida Department of Community Affairs and Executive Director of 1000 Friends of Florida. Jim is a Fellow of the National Academy of Public Administration. Jim graduated from Denison University in Granville, Ohio with a BA in History and George Washington University Law School. He is a graduate of Class IX Leadership Florida.

**4:45-5:00pm Closing Remarks by Eric P. Chassignet
Co-Director of the Florida Climate Institute**



Dr. Chassignet is Director of the Florida State University Center for Ocean-Atmospheric Prediction Studies (COAPS) and a professor of physical oceanography and meteorology. 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. His emphasis is on the study of the thermohaline circulation, western boundary currents, associated eddies and their impact on the world ocean circulation. In 2008, US Senator Bill Nelson presented Dr. Chassignet with the National Oceanographic Partnership Program's Excellence in Partnering Award for his coordination of the U.S. Global Ocean Data Assimilation Experiment: Global Ocean Prediction with the HYbrid Coordinate Ocean Model (US GODAE HYCOM). The project brought together more than 25 universities, government agencies and representatives from the private sector to create real-time, three-dimensional depictions and predictions of ocean conditions.

5:00-7:00pm Reception with research posters.



Poster Session

AUTHOR(S)	TITLE	CONTACT	#
Alldrige, Jonathan; Martinez, Chris	<i>Using Climate Forecasts to Predict Residential Irrigation Demand</i>	jonall@ufl.edu	1
Bartels, Wendy-Lin; Furman, Carrie; Fraisse, Clyde; Zierden, David; Ortiz, Brenda; Royce, Frederick; Beasley, John; Wright, David; Birdsong, William; Kemerait, Robert; and Jones, James	<i>Learning from the past to prepare for the future: Row crop farmers, extension professionals, and scientists discuss the challenges of adapting to climate variability and change.</i>	wendylin@ufl.edu	2
Borisova, Tatiana; Adams, Damian	<i>What Does the General Public Think About the Effects of Climate Change on Precipitation in the Southern States?</i>	tborisova@ufl.edu	3
Bozec, Alexandra	<i>Development of a Local Ocean Prediction Model of the Fort Lauderdale Region for Energy Extraction Purposes</i>	abozec@coaps.fsu.edu	4
Bunting, Erin; Southworth, Jane	<i>Human Alterations to the Landscape of Florida from 1974 to 2004</i>	bunterin@ufl.edu	5
Bunting, Erin; Gibbes, Cerian; Southworth, Jane	<i>Climate Variability Across the Kwando, Okavango, and Zambezi Catchments</i>	gibbesc@gmail.com	6
Cañas, Carlos; Waylen, Peter R.	<i>Modeling Hydro-Climatology of Madre de Dios Basin and Production of Migratory Catfish Larvae in Southeastern Peru</i>	cmcanas@ufl.edu	7
Chapin, Tim; Deyle, Robert; Koepfel, Peter; Rokyta, Anne	<i>Integrating Hazard Mitigation and Sea Level Rise Adaptation into Long-Range Transportation Planning</i>	tchapin@fsu.edu	8
Collier, Cristina; Smith, Shawn; Powell, Mark; Cocke, Steve; Bourassa, Mark	<i>Offshore Wind Potential around Florida</i>	cec06c@fsu.edu	9
Cui, Xia; Gibbes, Cerian; Southworth, Jane	<i>Measuring Semi-arid Savanna Cyclical Patterns and Dynamics</i>	xiacui2006@163.com	10

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Donoghue, Joseph F.; Elsner, James B.; Hu, Bill X.; Kish, Stephen A.; Niedoroda, Alan W.; Wang, Yang; Ye, Ming; Coor, Jennifer; Dai, Heng; Das, Oindrilla; Lewers, Shawn; Malmstedt, Jill; Zhang, Xiaoying	<i>Modeling the Risks of Near-Term Climate Change on the Northwest Florida Coast</i>	jfdonoghue@fsu.edu	11
Dukhovskoy, Dmitry; Morey, Steven	<i>Modeling Considerations for Estimating Coastal Inundation Risk in the Gulf of Mexico and Consequences of Sea Level Rise</i>	ddmitry@coaps.fsu.edu	40
Dzotsi, Kofikuma	<i>Sensitivity of Maize, Peanut, and Cotton's Simulated Growth to SALUS Crop Model Parameters in Cool and Warm Climates</i>	kofikuma@ufl.edu	12
Fraisse, Clyde	<i>AgroClimate.org: Climate Information and Decision Aid Tools to Help Farmers Reduce Risks and Increase Profitability</i>	cfraisse@ufl.edu	13
Fraisse, Clyde	<i>Strawberry Advisory System: Climate-based Tools for a Sustainable Strawberry Industry in Florida</i>	cfraisse@ufl.edu	14
Frumkin, Adam	<i>Predictability and Fidelity of Dry Season Downscaled Reforecasts Over the Tropical South American Region</i>	ajf09f@fsu.edu	15
Gaughan, Andrea; Waylen, Peter R.	<i>Spatial and Temporal Precipitation Variability in the Okavango-Kwando-Zambezi Catchment, Southern Africa</i>	aeb416@ufl.edu	16
Godwin, David R.; Kobziar, Leda N.	<i>Prescribed Fire Management and Soil Carbon Respiration in an Old-field Forest</i>	drg2814@ufl.edu	17
Griffin, Melissa	<i>Community Collaborative Rain, Hail, and Snow Network (CoCoRaHS)</i>	griffin@coaps.fsu.edu	42
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Heimlich, Barry N.	<i>A Probabilistic Method for Estimating Sea Level Rise Exceedances</i>	barryces@bellsouth.net	19

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Hodgkins, Suzanne; Chanton, Jeffrey	<i>Determination of Methane Production Mechanisms in Contrasting Peatland Types in Arctic Sweden: Research Plan and Preliminary Data</i>	sbh10c@fsu.edu	20
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Ingram, Keith T.; et al.	<i>SECC: Science and Partnerships for Adaptation and Resilience to Climate Change and Climate Variability</i>	ktingram@ufl.edu	22
Keellings, David; Waylen, Peter	<i>The Stochastic Properties of High Daily Maximum Temperatures</i>	keellings.rees@yahoo.com	23
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AUTHOR(S)	TITLE	CONTACT	#
Ruppert, Thomas; Havens, Karl; Spranger, Mike	<i>Florida Sea Grant's Role in Climate Variability and Change</i>	truppert@ufl.edu	32
Sheftall, William; Fraisse, Clyde; Martinez, Chris; Campbell, Mary	<i>Climate Education Needs in Florida from the Perspective of Extension Professionals</i>	Sheftall@ufl.edu	33
Shin, Dong-Wook	<i>Potential Values in Downscaling Systems for Agricultural Models</i>	shin@coaps.fsu.edu	34
Smith, Thomas J.; Allen, M.; Chassignet, E.; Davis, H.; DeAngelis, D.; Foster, A.; Green, T.; Kitchens, W.; Misra, V.; Percival, F.; Plant, N.; Slone, D.; Stefanova, L.; Stith, B.; Swain, E.; Sumner, D.; Tihansky, A.; Tiling-Range, G.; Walls, A.; Zweig, C.	<i>La Florida - A Land of Flowers on a Latitude of Deserts: Aiding Conservation and Management of Florida's Biodiversity by using Predictions from Downscaled AOGCM Climate Scenarios in Combination with Ecological Modeling</i>	tom_j_smith@usgs.gov	35
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