

YOU ARE INVITED TO ATTEND

“Water in a Changing Climate”

A
WORKSHOP

Hosted by:

Urban Long Term Research Area (ULTRA - EX), an NSF funded grant

On

the 18th of August 2011

Location:

Florida International University

Biscayne Bay Campus
3000 NE 151st St
North Miami, FL 33181

School of Environment, Arts and Society, Marine Sciences Building – Room 105

Parking:

Kovens Conference Center

Description

Miami-Dade's County's relatively low-lying elevation (<10m) makes it highly susceptible to the effects of sea level rise. Rising sea levels as projected over the next 50 years have a potential to impact freshwater availability and quality in terms of flooding from both seawater and freshwater due to a shallow groundwater table. The ability of Miami-Dade County to remove this additional flood water as well as sewerage under demographic projections is of concern given that the county is under a restriction to remove all ocean outfall of sewerage in the near future. The workshop aims at determining if current policies for protecting freshwater availability and quality in Miami-Dade County will require significant modification to support demographic projections, while protecting environmental resources in the face of sea-level rise. The workshop will give attendees the opportunity to work on a draft of a paper for publication that addresses current and future freshwater use and demand, as well as waste water disposal or re-use in Miami-Dade county, in concert with current policy restrictions, analyzing whether such restrictions are appropriate under current sea-level rise projections.

Schedule:

Hours	Presentation Theme	Presenter
8:00 – 9:00 am	Meet-n-greet & <u>Breakfast</u>*	
9:00 – 9: 10 am	Facilitator Welcome/ Sea Level Rise-Curves	Dr. Rene Price FIU-Dept. of E&E and SERC
9:10 – 9:30 am	Current Water use; availability and projected water needs; Water disposal: current and future	Virginia Walsh Miami Dade Water and Sewer
9:35 – 9:50 am	The effect of sea level rise on freshwater flooding, the human population, and natural forest communities of Miami-Dade County	Stephanie Long, Kristie Wendelberger, Sylvia Lee, Camilo Arias, Ivan Blanco Rubio FIU-students Dept. E&E
9:50 – 10:00 am	GIS analysis of changes in chloride concentrations in Biscayne aquifer wells	Dr. Rosanna Rivero & Ivan Blanco Rubio Everglades Foundation
10:00-10:15 am	<u>Coffee Break</u>	
10:20 – 10:40 am	Future water needs and availability given SLR; Implications of SLR inundation for freshwater sustainability;	Dr. Jayantha Obeysekera South Florida Water Management District (SFWMD)
10:50 – 11:10 am	SLR inundation and storm surge flooding	Dr. Keqi Zhang FIU – Dept. of E&E and Hurricane Center

11:20 – 11:40 am	Restoration/water management operations – new initiatives	Robert Johnson The South Florida Natural Resources Center (SFNRC)
11:50 – 1:00 pm	<u>Lunch Break</u>	
1:00 – 1:20 pm	Demand/pricing modeling and management strategies	Dr. Pallab Mozumder & Dr. Hugh Gladwin FIU -Dept. of Earth & Environment and Department of Economics & FIU- Dept. Sociology and Anthropology and Director of Institute for Public Opinion Research
1:30 – 1:50 pm	Population projections and freshwater supply – summary of available data.	Suzana Mic FIU-student Dept. of Global and Sociocultural Studies
2:00 – 2:20 pm	<u>Coffee Break</u>	
2:20– 2:30 pm	Organization for the second part of the workshop	Dr. Rene Price – discussion leader
2:30 – 4:00 pm	Discussion: Identifying the theme of the paper	
4:00 – 4:30 pm	Outline and Section authors	
	Deadlines and concluding remarks	

* all meals will be provided



NE 145th St

N University Dr

Marine Sciences Building

park here

Kovens Center

Main Rd

Bay Vista Blvd

733 ft

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