

National Conference on Ecological Restoration (NCER)

April 18-22, 2016

Session 18



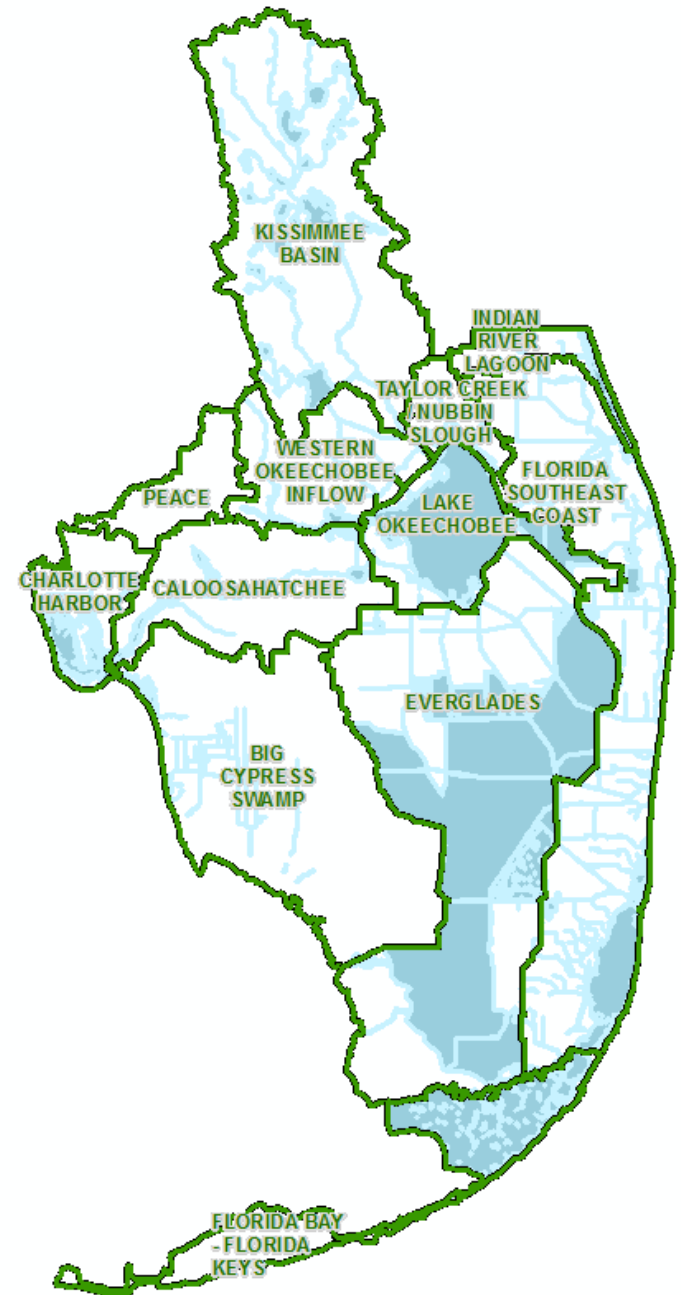
Ecological Restoration Implementation in South Florida using Regional and Sub-regional Modeling Tools

Fahmida Khatun, PE



Ecological Restoration

- ❑ Everglades: Kissimmee River to FL Bay
 - Northern Everglades
 - Southern Everglades or Everglades
- ❑ Everglades is a series of sub-tropical wetlands with a rich diversity of plants, fish, birds and other animals.
- ❑ Serious disruptions to its natural hydrology caused by
 - less water flows through the ecosystem
 - degraded water quality in estuaries and bays
- ❑ Multi-agency efforts focusing on ecological restoration of the Everglades





Modeling to Support Restoration in South Florida

- ❑ Modeling is very important to this restoration effort.
- ❑ Main purpose of the session: **showcase** various regional and sub-regional **modeling tools to evaluate or restore South Florida's ecosystem.**



Showcase 1: M3ENP

Speakers: *Kiren Bahm and Amy Cook*

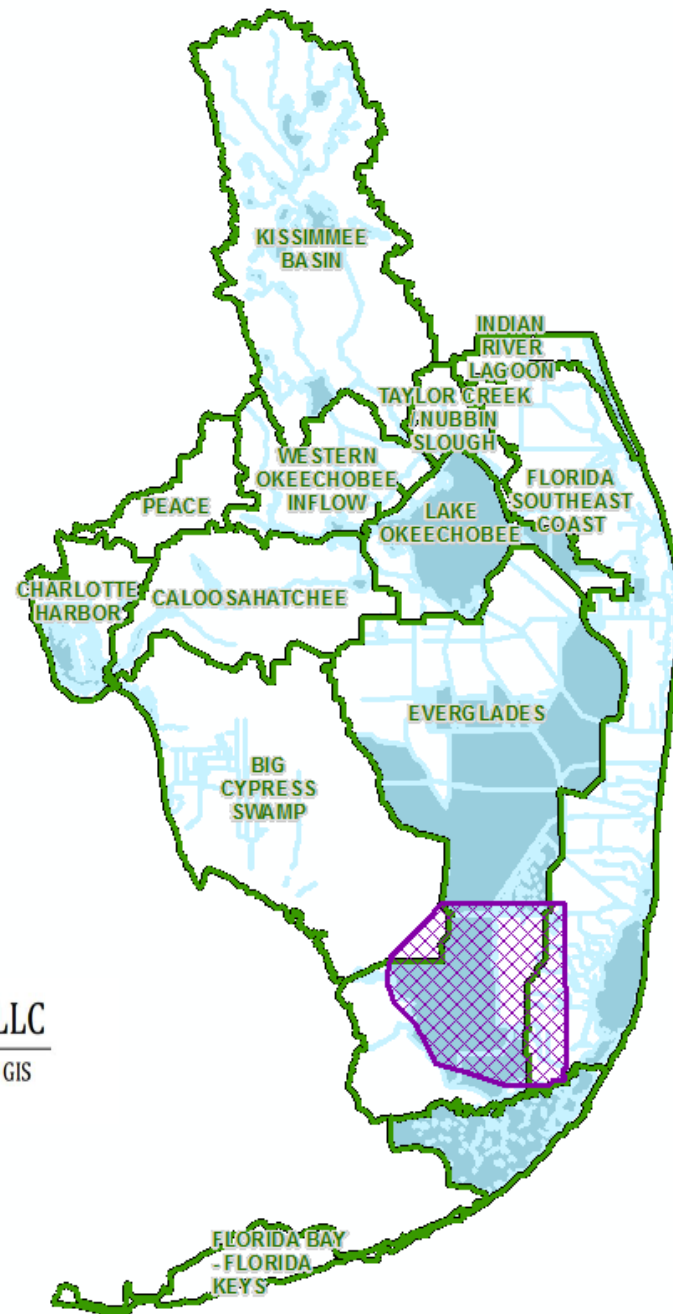
Application of the MIKE Marsh Model of Everglades National Park (M3ENP) to Evaluate Restoration Alternatives

National Park Service
Everglades National Park



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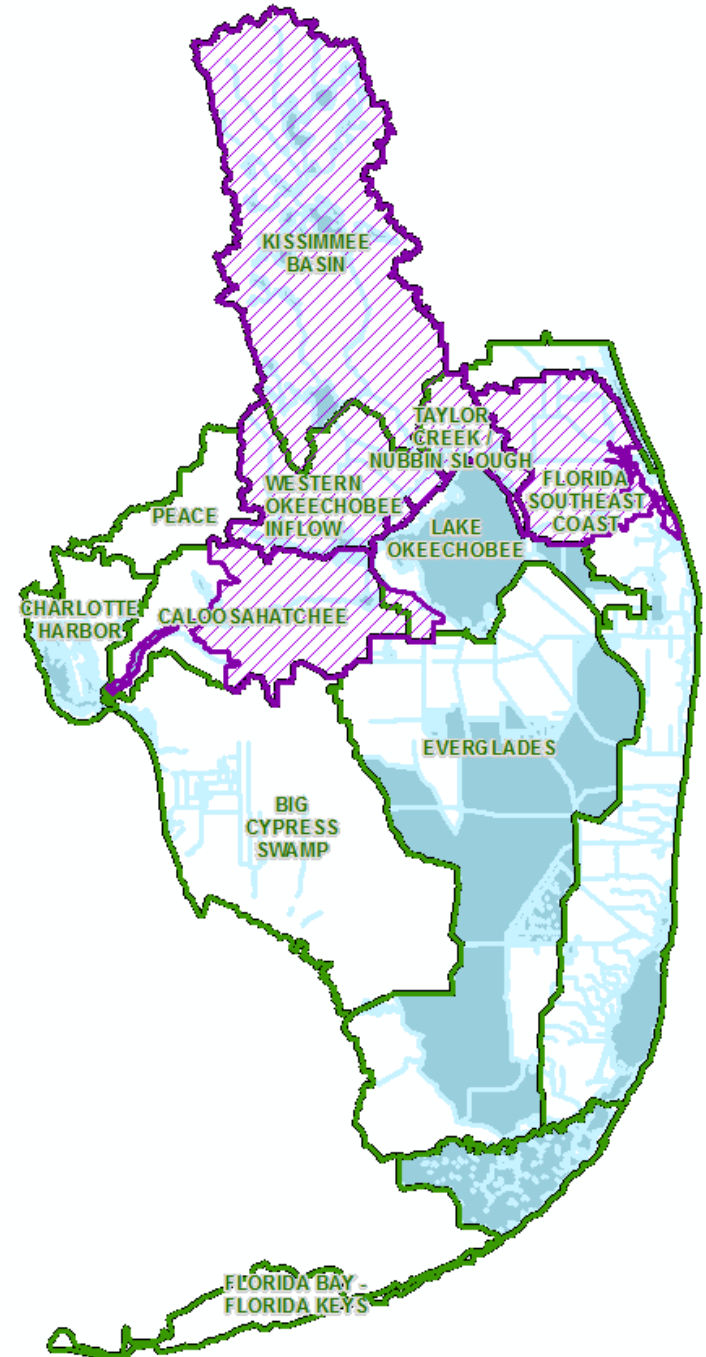
Showcase 2: NERSM

Speakers: *Sandeep Dabral*

An application of the Northern Everglades Regional Simulation Model (NERSM) to the St. Lucie and Caloosahatchee river watersheds for improving hydrology and water quality



sfwmd.gov

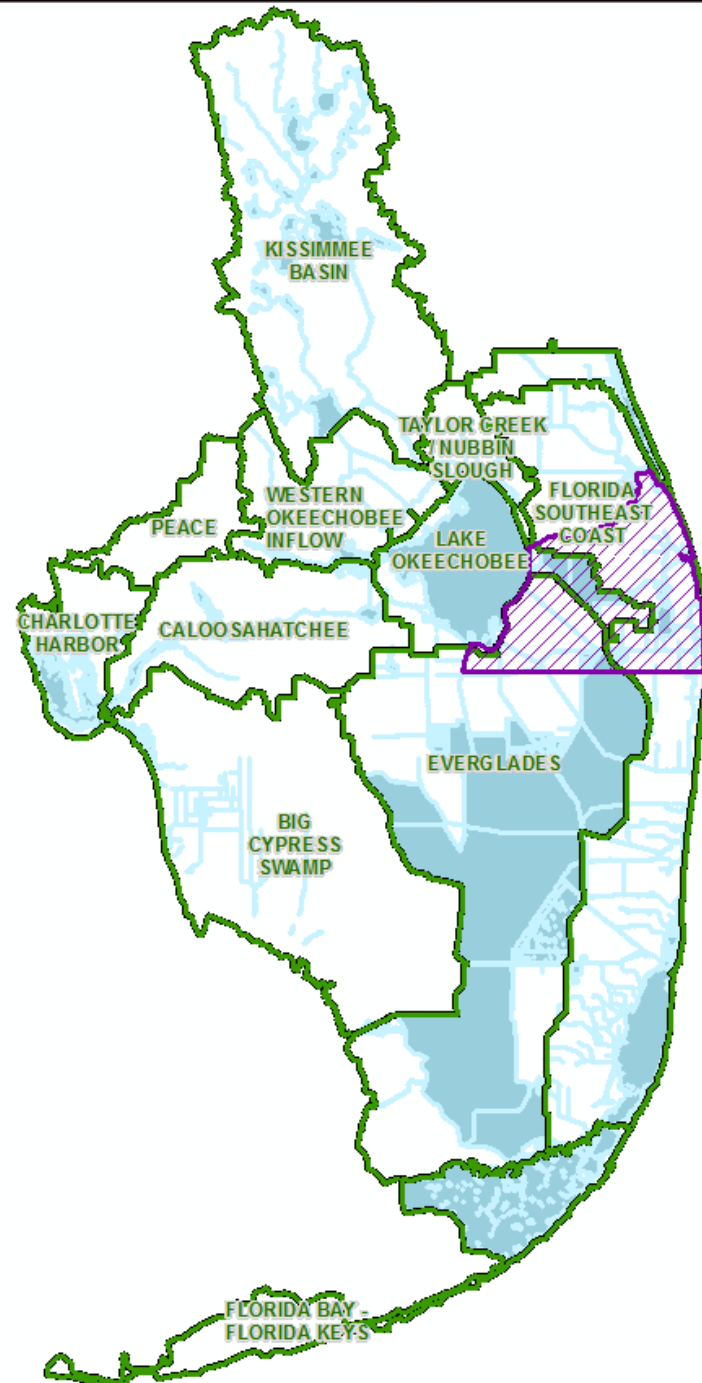




Showcase 3: LECSR-NP

Speakers: **Angela Montoya**

Application of a Hydrologic Model (LECSR-NP) to Determine Interim Restoration Benefits for the Northwest Fork of the Loxahatchee River

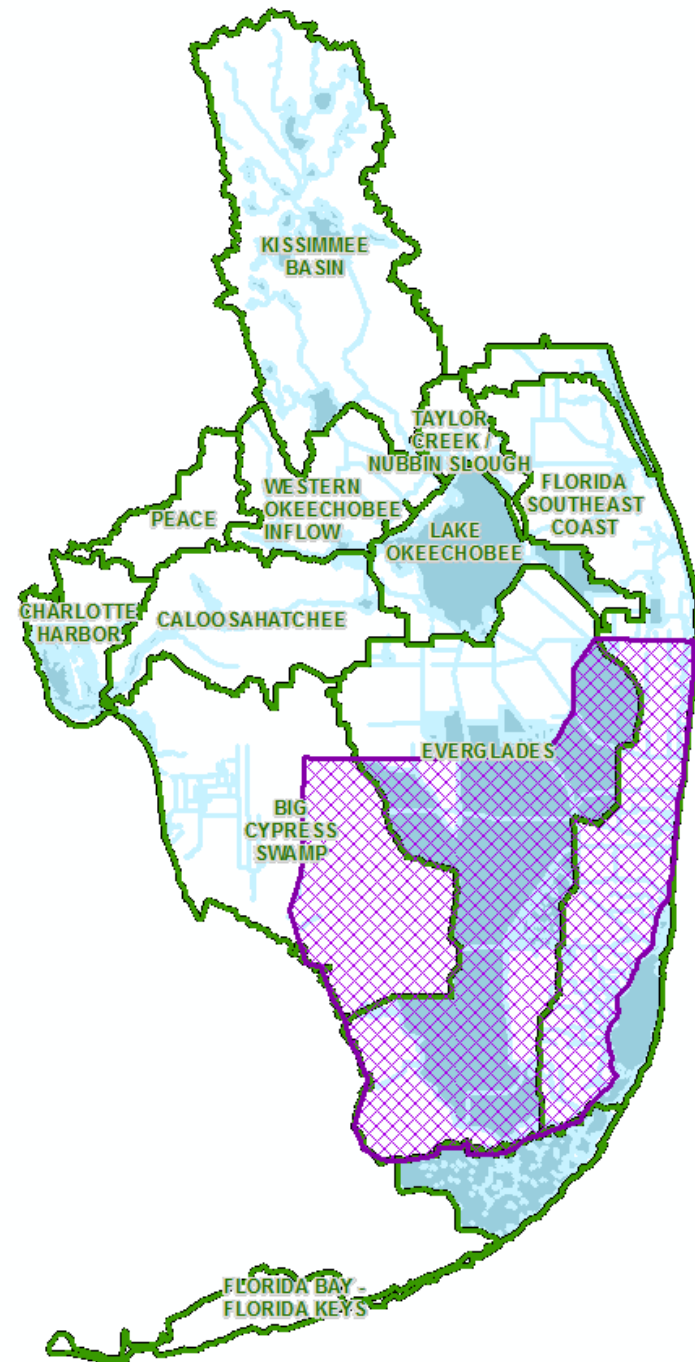




Showcase 4: RSMGL

Speakers: *Fahmida Khatun*

An Application of the Regional Simulation Model to the Everglades and Lower East Coast for the Modified Water Deliveries and C-111 South Dade Projects





Showcase 1: M3ENP

Speakers: *Kiren Bahm and Amy Cook*

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