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

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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 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
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
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

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