



SOUTH FLORIDA ECOSYSTEM RESTORATION TASK FORCE



LEADERSHIP • PARTNERSHIP • RESULTS

**National Academy of Sciences
Committee on Independent Scientific Review
of Everglades Restoration Progress
CISRERP IX Update
October 19, 2022**

EVERGLADESRESTORATION.GOV

Committee on Independent Scientific Review of Everglades Restoration Progress (CISRERP)

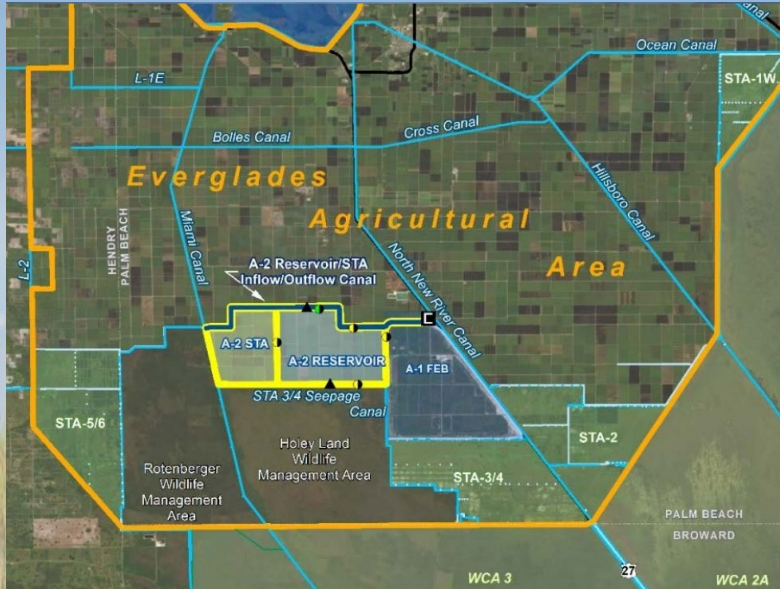
- Water Resources Development Act 2000 (Section 601): Their Biennial Reports provide: (1) Assessment of progress in restoring the natural system, (2) Evaluation of specific scientific and engineering issues that may impact progress in achieving natural system restoration goals, and (3) Review of monitoring and assessment protocols to be used for evaluation of CERP progress.
- The 9th Biennial Reporting cycle covered evaluations of: Funding Developments and Prioritizing Investments, Stormwater Treatment Area performance, Climate Change Integration in CERP/BBSEER, RECOVER/MAP support for Decision Making, Natural System Restoration Progress, and our Science Enterprise related to modeling, strategic thinking, and interagency coordination.
- In this Report CISRERP is continuing its focus on Science Support for CERP decision making as we transition from planning, to implementation, and operational testing.



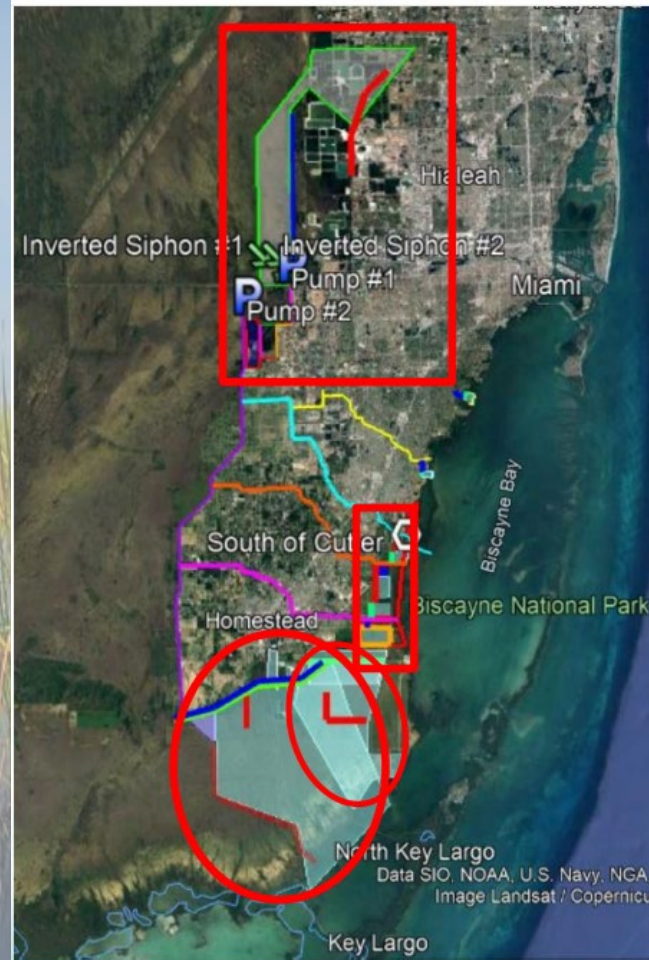
CISRERP IX - Meeting 1 Aug. 13, 2021 Background & Path Forward

- Prerecorded - Overview Everglades hydrologic/ecological changes and current conditions,
- Prerecorded - CERP 101 goals/objectives, system-wide components, benefits and constraints,
- Prerecorded - RECOVER Five-Year Plan and the Monitoring and Assessment Plan status,
- Prerecorded - Highlights of Ongoing Planning Initiatives in 2021-2022 (Biscayne Bay Southeast Everglades Ecosystem Restoration (BBSEER), Lake Okeechobee System Operating Manual (LOSOM), Western Everglades Restoration Program (WERP), Second Periodic CERP Update,
- Panel – Q & A with Agency Presenters
- Panel - Perspectives on key CERP Challenges (Tribal/Stakeholder representatives),
- Panel - Sponsor Feedback on the latest CISRERP VIII report, and recommendations on new issues for CISRERP IX.

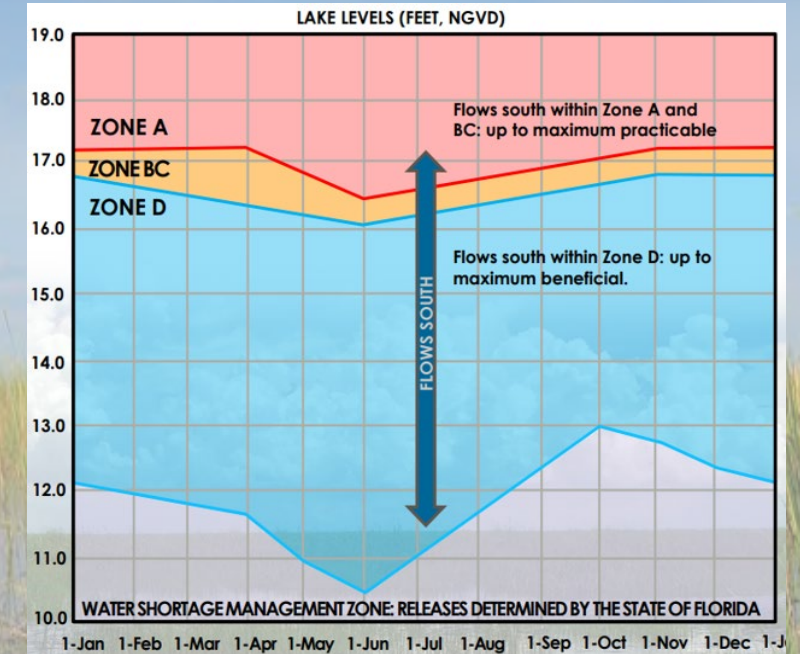
CISRERP IX Meeting 2 – Oct. 7, 19, and Nov. 5, 2021



Stormwater Treatment Areas: Legal & Reg. Context in CERP, STA performance.



BBSEER: Project overview, Addressing Climate Change, Water Supply Sources, WQ Targets, Performance Objectives,



LOSOM: Project Overview, Modeling Results, and Operational Refinements to Balance Performance Objectives.



ASR in CERP: Lake O. Watershed Rest. Project, ASR Science Plan.

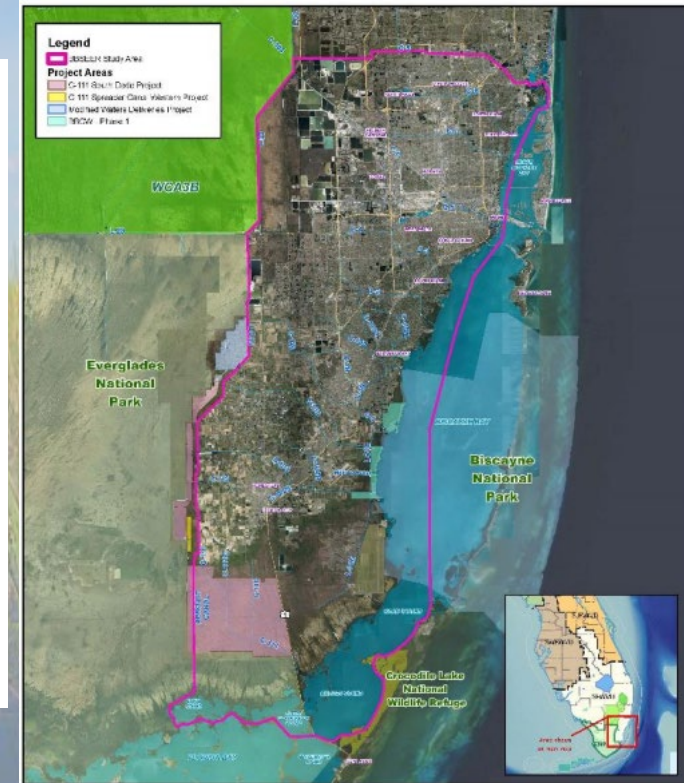
Focused on Newer Technologies and Performance Uncertainties

CISRERP IX Meeting 3 - Dec. 1 2021 & Jan. 11, 2022 Science in Support of Everglades Restoration

System-Wide Ecological Indicators



Ecological Indicator	Previous Reporting Year WY 2020	Previous Water Year WY 2021	Current Reporting Year WY 2022	10 Year Trend
Invasive Exotic Plants	C	Y	Y	→
Lake Okeechobee Nearshore Zone Submerged Aquatic Vegetation	R	R	R	↓
Eastern Oysters - Modified (Northern Estuaries only)	R	R	R	→
Crocodilians (American Alligators & Crocodiles) - Modified (DOI Lands Only)	C*	R	R	→
Fish & Macroinvertebrates (WCA-3 and ENP only)	R*	R	Data being processed	→
Periphyton - Modified (no species composition)	Y	Y	Data being processed	→
Wading Birds (White Ibis & Wood Stork)	R	R	Data being processed	↑
Southern Coastal Systems Phytoplankton Blooms	Y	R	Data being processed	→
Florida Bay Submersed Aquatic Vegetation	Y			
Juvenile Pink Shrimp - Modified (no system-wide sampling)	B	B	B	
Wading Birds (Roseate Spoonbill)	R	Y	R	→



RECOVER Five-Year Plan: Science Integration in CERP, Interim Goals/Targets, Adaptive Management, and Monitoring and Assessment Plan.

Science Coordination Group: Role in Science Support, and Policy Discussions on Science needed for Decision Making.

BBSEER: Benefits Analysis, Climate Preparedness and Resilience, Options for Changing Geomorphology.

CISRERP IX - Meeting 4 Feb. 24, 2022

Program Funding and Project Transitioning

Everglades Ecosystem Restoration Projects (FY23 Cross-Cut Budget)

Sources	Program	FY22 Enacted	FY23 Requested
Federal Agencies	CERP	\$1,458,365,736	\$408,283,000
Federal Agencies	Non-CERP	\$104,556,000	\$117,631,000
Federal Total	Combined	\$1,562,921,736	\$525,914,000
State Agencies	CERP	\$305,043,512	\$747,908,063
State Agencies	Non-CERP	\$648,744,001	\$1,833,733,130
State Total	Combined	\$953,787,513	\$2,581,641,193

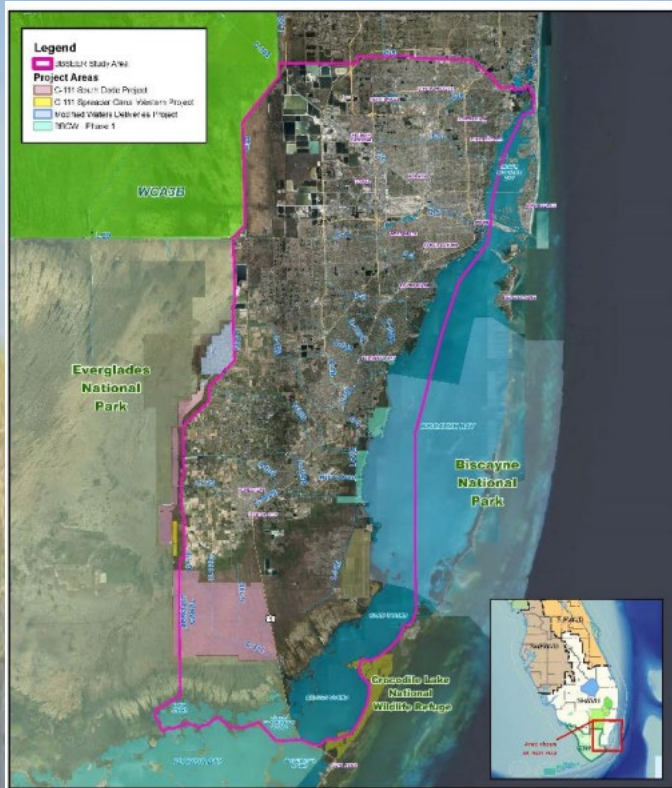
Recent CERP Funding Developments: Bipartisan Infrastructure Act, and Expanded FY22/FY23 Federal and State Funding,

Cross-Cut Discussions: CERP transitioning from planning and construction to operational testing and tracking restoration progress,



Natural System Restoration Progress: Combined Operational Plan (Modified Water Deliveries & Canal-111 South Dade), Picayune Strand, and Biscayne Bay Coastal Wetlands Phase 1 (Red Circles).

CISRERP IX Meeting 5 Mar. 24-25 2022 (Field Trips)



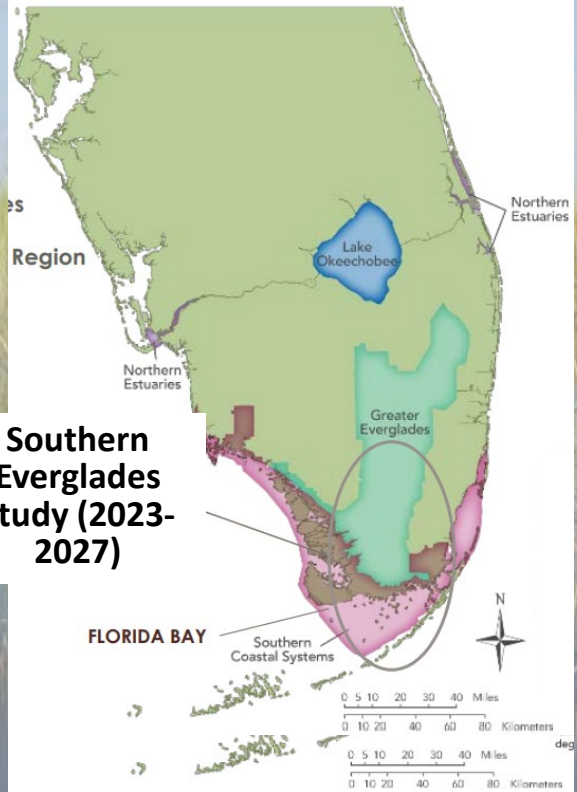
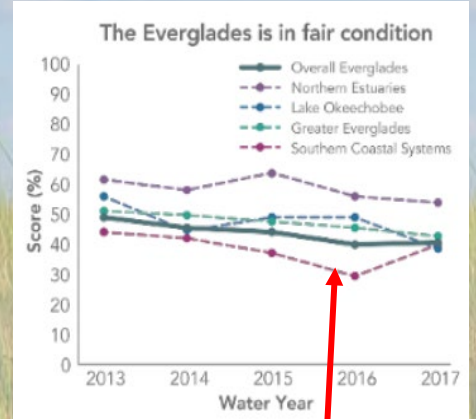
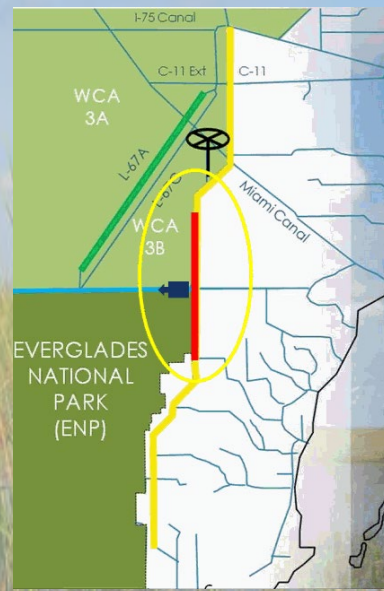
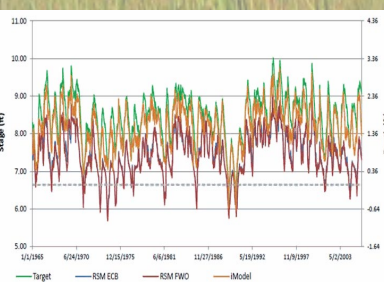
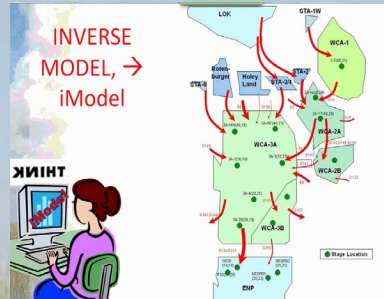
Tour of BBSEER Region:
Model Lands, L-31E Levee,
Biscayne Bay Nearshore areas.



Stormwater Treatment: The Everglades Agricultural Area,
Stormwater Treatment Areas, and Flow Equalization Basins.

CISRERP IX - Meeting 6 Apr. 11 and May 4, 2022 Science, Modeling Integration, and Restoration Decision Making

Science Driving Restoration Decisions



Science Enterprise: Interagency Modeling Center function, flow processes, strategic planning, interagency coordination. Examples from COP.



Reflections from Science Leadership & Senior Policy Leaders: The process for Interagency strategic planning, and prioritizing investments. (IDS, 2021 Southern Everglades Study Planning Kickoff).

Natural System Restoration Progress: Canal-111 Western Spreader Canal Project.

CISRERP IX Report Timeline

External NAS Reviews were completed in August. Portions of the CISRERP IX Draft Biennial Report were sent out for fact checking in September. The revised report will be delivered to the sponsoring agencies by November 30, 2022.

To view all of the CISRERP IX presentations and Zoom meeting recordings go to:

<https://www.nationalacademies.org/our-work/independent-scientific-review-of-everglades-restoration-progress-ix#sectionPastEvents>

QUESTIONS?