



***National Research Council
Committee on the Independent
Scientific Review of Everglades
Restoration Progress - CISRERP VII Update***

***Sponsors: Army Corps of Engineers, South Florida Water
Management District, Department of the Interior,
Robert Johnson (DOI), Megan Jacoby (SFWMD),
Donna George (USACE)***

***South Florida Ecosystem Restoration
Working Group/Science Coordination Group Meeting
June 5, 2018***

The Role of Science in Everglades Restoration

“While not all parties agree on the details of the restoration, there is near universal agreement that the best possible science should support planning, implementation, and, ultimately, operation of restoration projects.” (NRC, 2003)

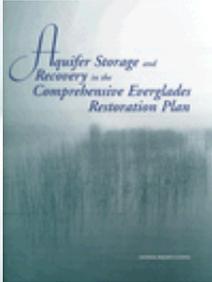
Two Everglades External Peer Review Groups (WRDA 2000) –

(1) In 1999 the National Academies established the Committee on Restoration of the Greater Everglades Ecosystem (CROGEE) running from 2000-2005.

(2) In 2005 the National Academies established the Committee on Independent Scientific Review of Everglades Restoration Progress (CISRERP).

Both groups provide scientific review/advise on South Florida Ecosystem Restoration to the U.S. Congress and Florida Legislature.

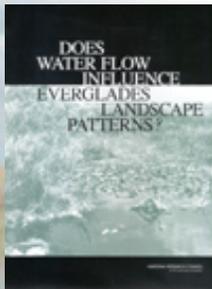
The NRC/CROGEE Everglades Studies (2000-2005)



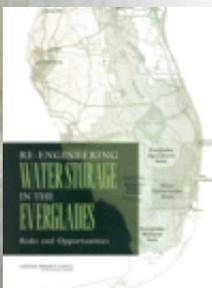
Aquifer Storage and Recovery in the Comprehensive Everglades Restoration Plan (2001).



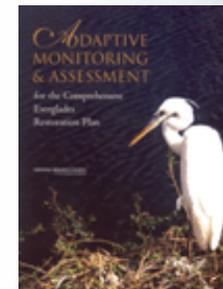
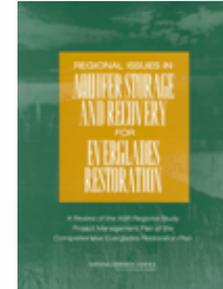
Florida Bay Research Programs and their Relation to the Comprehensive Everglades Restoration Plan (2002).



Does Water Flow Influence Everglades Landscape Patterns? (2003).



Re-Engineering Water Storage in the Everglades: Risks and Opportunities (2005).

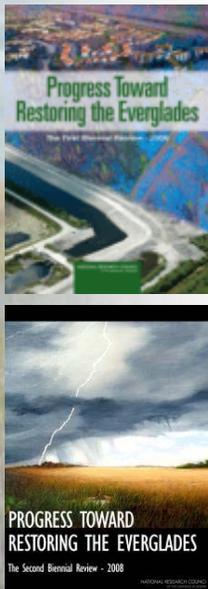


Committee on the Independent Scientific Review of Everglades Restoration Progress (CISRERP)

Independent Scientific Review: WRDA 2000, Section 601 (j)

Establish an independent scientific review panel convened by a body, such as the National Academy of Sciences, to review the Plan's progress toward achieving the natural system restoration goals.

Produce a biennial report to Congress, the Secretary of the Army and Interior, and the Governor that includes an assessment of ecological indicators and other measures of progress in restoring the ecology of the natural system.



Progress Toward Restoring the Everglades: The First Biennial Review (2006).

Progress Toward Restoring the Everglades: The Second Biennial Review (2008).

Progress Toward Restoring the Everglades: The Third Biennial Review (2010).

Progress Toward Restoring the Everglades: The Fourth Biennial Review (2012).



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

Progress Toward Restoring the Everglades : Seventh Biennial Review

Two Field Trips

07/31/17 Loxahatchee River Watershed CERP Project

10/18/17 Florida Bay and ENP Coastal Ecosystems

Four Open Meetings

05/24/17 Study Overview, Everglades Hydrology/Ecology; CERP Goals, Components, Authorizations, context with Foundation Projects; new RECOVER Initiatives and Scientific Knowledge Gained, New Issues.

08/01/17 RECOVER - System-wide vs Project-level Monitoring (hierarchical organization/nested designs), Rationale for Selecting Indicators, Spatial/Temporal density, Integration/Priorities (most ecologically meaningful), Linking Monitoring and Modeling; Project-Level examples C-111 SC and BBCW (hypothesis clusters, cause/effect); Linking CERP Monitoring and Decision Making, Needed Monitoring Improvements?

10/19/17 Southern Coastal Systems and Everglades Ridge & Slough/Marl Prairie, Restoration Projects and System-wide vs Project Level Monitoring, Key Questions and Indicators; Picayune Strand, RECOVER Interim Goals/Interim Targets, Hurricane Irma, SB-10.

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2/22/18 Case Studies/Balancing Benefits: Florida Bay Initiative (marsh restoration and water quality), Central Everglades/PACR (northern estuaries and Everglades wetlands), Lake Okeechobee (regional water management and Lake ecology); CERP/non-CERP (project schedules and dependencies); CERP Leadership perspectives (cost sharing, budget reduction implications, lessons learned).

Five CISRERP Conference Calls

2/13/18 ASR Toxicology and Risk Assessment

3/26/18 CERP Project Level Monitoring (C-111 SC, BBCW, Picayune Strand)

3/28/18 Western Everglades Restoration Project

3/30/18 Lake Okeechobee Watershed Restoration Project

4/30/18 CERP Interim Goals/Interim Targets

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

Biennial Report Status and Next Steps:

Last Internal CISRERP full Committee Meeting May 2018.

Draft Biennial Report to Sponsors by early Sept. (10-day FC).

Roll-out Briefing for Sponsors late September (FL), HQ (DC).

Target Date for Briefing Congress in late September 2018.

Final 7th Biennial Report publicly available October 2018.

Establish CISRERP VIII Committee in the late 2018.

CISRERP VIII Committee begins meeting ~ Jan. 2019.

Seventh Biennial Report Topical Areas:

The Restoration Plan in Context (Intro. and new efforts).

Implementation Progress (CERP/non-CERP project status, IDS changes).

New Topics (CEPP/PACR, WERP, LOWRP, FI Bay Initiative, High Water and Storage).

Science and Decision Making (RECOVER system-wide vs project level monitoring, indicator selection/integration, adaptive management).