

National Academies 2018 Biennial Review Update

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

Stephanie Johnson, Study Director



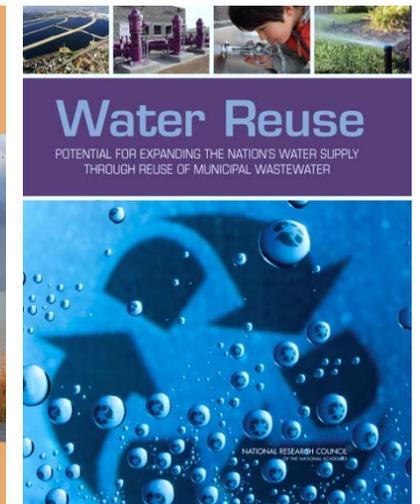
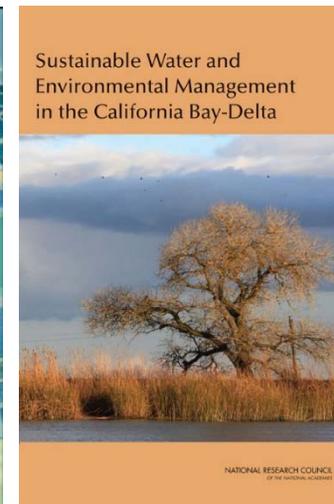
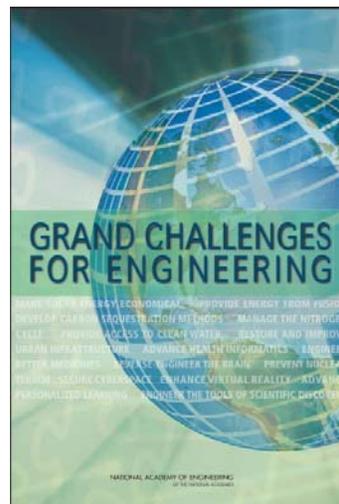
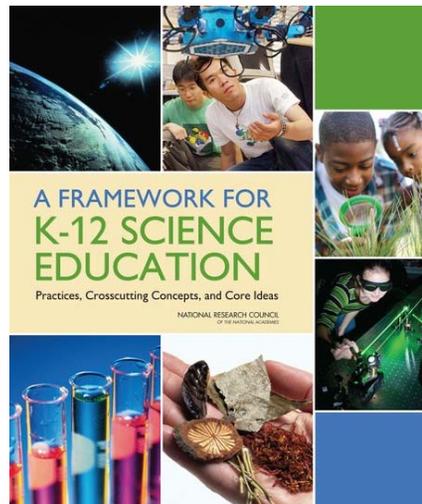
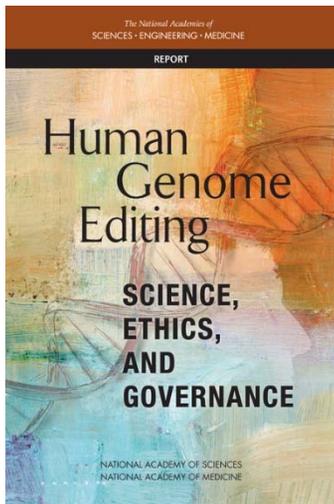
The National Academies of Sciences, Engineering, and Medicine



- Provide independent scientific advice to the nation
- Inform decision making and public policy
- Independent, nongovernmental, non-profit organization

The National Academies of Sciences, Engineering, and Medicine

- 200+ reports/year
- Hundreds of committees
- ~6,000 volunteers



History of National Academies Everglades Studies

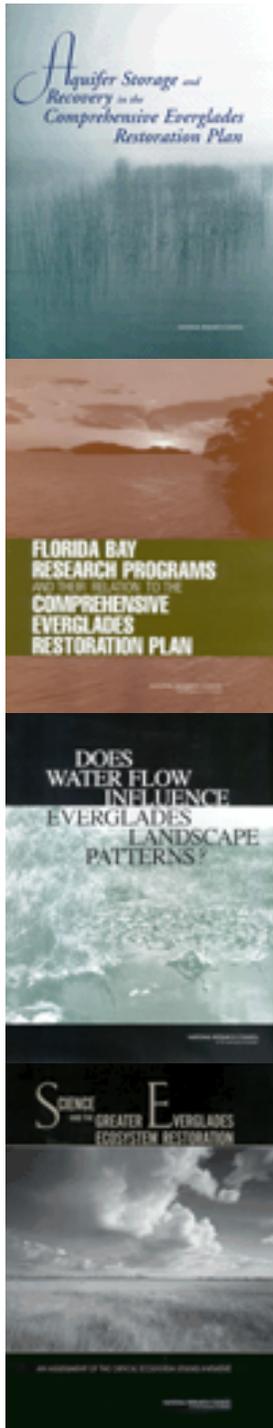
Committee (CROGEE) to advise the Task Force (1999-2005)

- Aquifer Storage and Recovery (2001)
- Regional Issues in ASR (2002)
- Florida Bay Research Programs (2002)
- Adaptive Monitoring and Assessment (2003)
- Does Flow Influence Everglades Landscape? (2003)
- Re-Engineering Water Storage (2005)

Focused studies by separate committees:

- Assessment of the Critical Ecosystem Studies Initiative (2003)
- Review of the Florida ASR Regional Study (2015)

WRDA mandated study--CISRERP (2004-ongoing)



WRDA 2000

- Congressionally mandated study of the Comprehensive Everglades Restoration Plan (CERP) under the Water Resources Development Act (WRDA) 2000.
 - ❖ “The Secretary, the Secretary of the Interior, and the Governor, in consultation with the South Florida Ecosystem Restoration Task Force, shall 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 of the Plan.”
 - ❖ “The panel ... shall produce a biennial report to Congress, the Secretary, the Secretary of the Interior, and the Governor that includes an assessment of ... measures of progress in restoring the ecology of the natural system, based on the Plan.”
- Study funded since 2004 under 5-yr contracts with the USACE, with funding support from DOI and SFWMD

CISREERP Statement of Task

The committee will produce biennial reports providing:

1. An assessment of progress in restoring the natural system
2. Discussion of significant accomplishments of the restoration
3. Discussion and evaluation of specific scientific and engineering issues that may impact progress in achieving the natural system restoration goals of the plan
4. Independent review of monitoring and assessment protocols to be used for evaluation of CERP progress



CISRERP Studies

- Progress Toward Restoring the Everglades: The First Biennial Review, 2006 (*incremental adaptive restoration*)
- The Second Biennial Review, 2008 (*Lake Okeechobee, Mod Waters*)
- The Third Biennial Review, 2010 (*water quality and quantity*)
- The Fourth Biennial Review, 2012 (*ecosystem trajectories*)
- The Fifth Biennial Review, 2014 (*CEPP, climate change, invasive sp.*)
- The Sixth Biennial Review, 2016 (*knowledge gained, CERP update*)

Available at <http://www.nap.edu>



2018 Biennial Review Process

- Five in-person committee meetings (May 2017 - May 2018)
 - 4 information gathering meetings, 2 field trips, and 7 web conferences. Briefings included:
 - CERP and non-CERP implementation progress
 - Projects in planning
 - Project-level monitoring and assessment
 - Systemwide monitoring
 - RECOVER activities
 - Effects of Lake O. regulation on Lake Ecology
 - Restoration transitions in Northeast Shark River Slough and Taylor Slough
- Report release and dissemination (Oct. 2018)



Committee Members

- **Bill Boggess**, Chair, Oregon State University, Corvallis
- **Mary Jane Angelo**, University of Florida, Gainesville
- **Charles Driscoll**, Syracuse University, New York
- **Siobhan Fennessy**, Kenyon College, Gambier, Ohio
- **Wendy Graham**, University of Florida, Gainesville
- **Karl Havens**, University of Florida, Gainesville
- **Fernando Miralles-Wilhelm**, University of Maryland, College Park
- **David Moreau**, University of North Carolina, Chapel Hill
- **Gordon Orians**, University of Washington, Seattle
- **Denise Reed**, University of New Orleans, Louisiana
- **James Saiers**, Yale University, Connecticut
- **Eric Smith**, Virginia Polytechnic Institute and State University, Blacksburg
- **Denice Wardrop**, Pennsylvania State University, University Park
- **Greg Woodside**, Orange County Water District, California



Questions?

