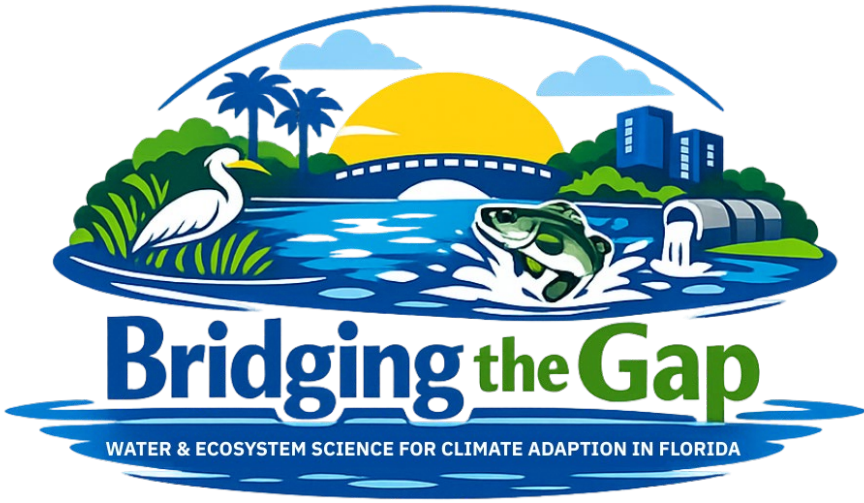




Bridging the Gap: Integrating Water Resource Management and Ecosystem Science for Climate Adaptation in Florida

Project Update

June 26, 2026



Why Bridging the Gap?

Shifting Rainfall
Patterns &
Climate Variability

More Frequent
Droughts,
Flooding, &
Extreme Weather

Sea Level Rise &
Changing Water
Availability

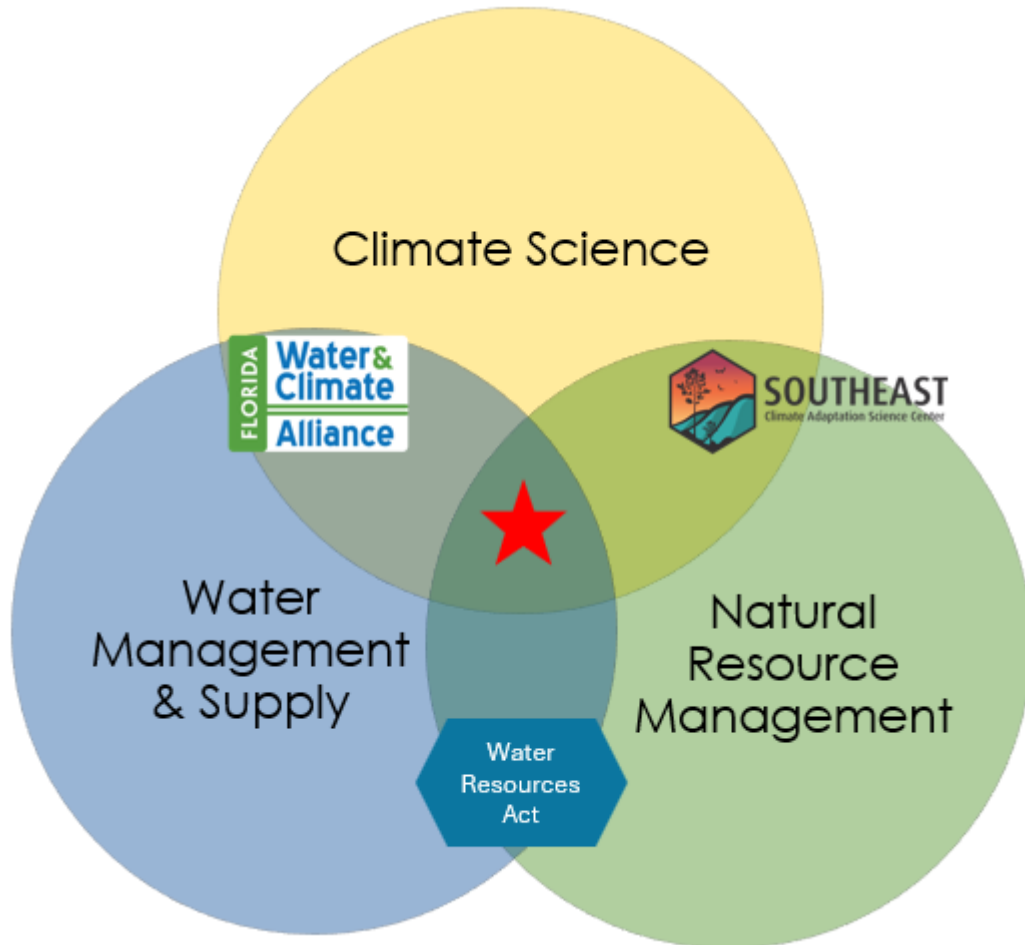
Rapid Population
Growth and Land-
Use Change



Project Objective



Foster collaboration among water managers, natural resource managers, and climate scientists to co-develop research questions that foster integrated water supply and aquatic ecosystem management for climate adaptation in Florida.



Timeline



March 2026



Workshop 1:

Identify challenges &
opportunities

Build a shared vision

Identify action items and
research needs

October 2026



Workshop 2:

Finalize shared research
agenda

Develop implementation
strategies

Establish working groups

Spring 2027



Project Outreach :

Webinars

Conferences

Workshop Reports

White Papers

Shared Vision- What Success Looks Like



Data and Models

- Strategic monitoring to understand systems and inform models
- Increased data integration and information sharing
- Improved localized Florida-specific climate models
- Integrated water models

Planning and Policy

- Increased collaboration and communication across sectors
- Incorporating and communicating risk and variability in decision-making
- Strategic policy development, implementation, and enforcement
- Incorporation of natural resources and water in land use planning

Potential Challenges- What is Blocking Us



Communication and Coordination

- Building trust and communicating across diverse stakeholder interests
- Gaps in coordination among agencies, sectors, and stakeholders
- Structural barriers to coordination and implementation

Planning and Policy

- Constraints in planning processes do not support integrated rulemaking
- Reactive policy making with limited political will for long-term planning

Resources & Capacity

- Difficulties in demonstrating return on investment to justify budgets and prioritize actions
- Gaps in expertise, time, and training

Actions – Where Can We Start



Communication and Coordination

- Leverage mechanisms to foster co-production across sectors
- Improve public outreach and education
- Improve interagency coordination

Planning and Policy

- Initiate internal conversations about where and how best to incorporate climate risk and variability

Data and Models

- Develop a persistent, centralized repository for sharing data and information
- Co-develop new tools to support integration of climate data into water and natural resource models

Resources and Capacity

- Create or leverage existing capacity to inform and educate legislators
- Build workforce capacity

Research and Knowledge Gap Themes

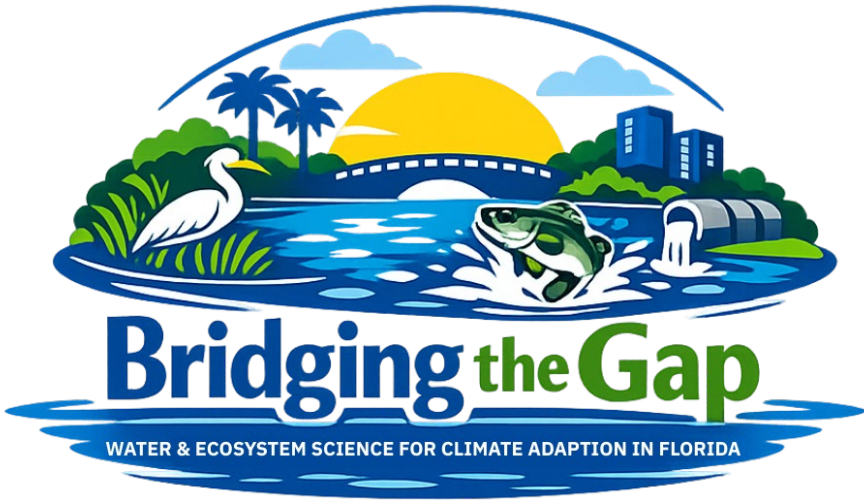


Data & Modeling

- Targeted/ “Better” monitoring and better data sharing
- Designing data products specifically for effective integration into planning models
- Need for improved Florida-specific ocean-atmosphere climate models/projections
- Need for integrated hydrologic and ecosystem models

Climate-Informed Planning

- Where and how best to incorporate climate data into existing decision-making processes?
- Need to plan for both drought and flood extremes
- Need to incorporate risk and uncertainty into decision-making
- Need to account for non-stationarity (moving target/ moving baselines)



Bridging the Gap: Integrating Water Resource Management and Ecosystem Science for Climate Adaptation in Florida

Questions?

