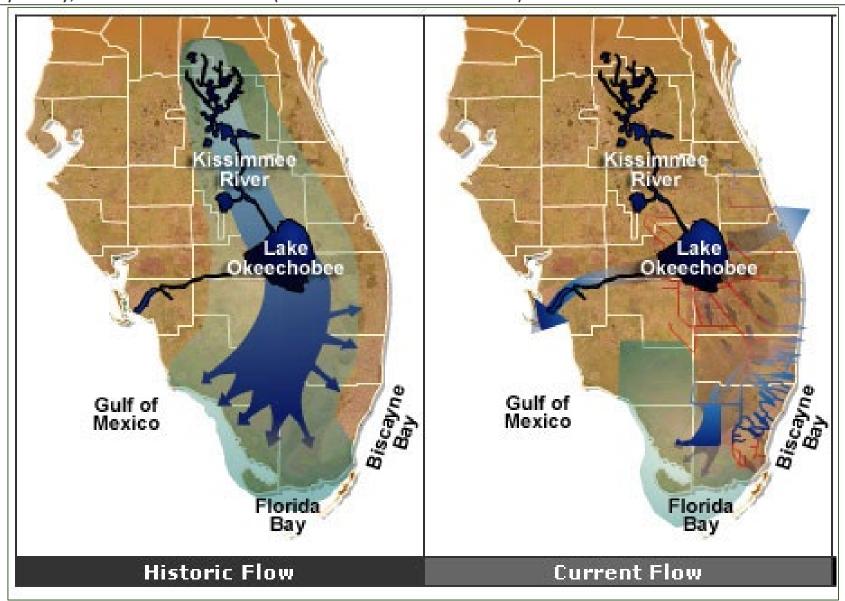


SOUTH FLORIDA REGIONAL INFLUENCES

Everglades' Restoration (1-1). Actively engage with the South Florida Ecosystem Restoration Task Force's efforts to restore the quantity, quality, timing and distribution of freshwater flow to the Everglades, Florida Bay, Biscayne Bay, and northern estuaries (Caloosahatchee and St. Lucie).





Water Quality Impacts in Florida Bay, Everglades National Park



Comprehensive Everglades Restoration Plan Components Taylor Creek/ Nubbin Slough Storage and Treatment Area Okeechobee Storage Water Preserve Areas: Storage in C-23, 24,25,44 orth and South Fork Basins St. Lucie Estuary eechobee Regulation Water Supply Caloosahatchee Reservoir with ASR and Caloosahatchee Lake Okeechobee ASR Backpumping with STA L-8 Modifications Caloosahatchee Estuar Water Supply WCA-1 Internal Canal Structures Everglades Agricultural Area (EAA) Storage Modify G-404 Water Preserve Areas and S-140 Pumps Above Ground Storage, ASR and Seepage Management Big Cypress / L-281 Lower East Coast Water Conservation and Broward County of Water Conservation Area 3 Secondary Canals and Everglades National Park Water Preserve Areas: North and Central Lake Belt Storage Everglades Rain **Driven Operations** West and South Miami-Dade Reuse L-31 N Levee Seepag Biscayne Bay C-111N Spreader Canal

Restoring America's Everglades

- Remove barriers to flow into Everglades National Park.
- Redirect flow away from Caloosahatchee and St. Lucie estuaries and into water treatment areas.
- Clean water to acceptable levels.
- Send clean water south.

SOUTH FLORIDA REGIONAL INFLUENCES

Mainland Wastewater Infrastructure (1-2). Pursue improvements to mainland wastewater infrastructure (closure of outfall pipes, upgrades to aging infrastructure, septic to sewer conversion, etc.). This may include coordination with local governments to develop resolutions and encourage timely and definitive action towards infrastructure improvements.



Wastewater Outfall off Delray Beach

TIDAL FLOODING AND CLIMATE

Infrastructure Adaptation for Climate Change (5-2). Ensure wastewater and stormwater infrastructure is equipped to accommodate changing conditions associated with sea level rise and higher-intensity storms. Assess the ability of existing permitting requirements and facility designs to protect water quality, infrastructure and habitat under changing climate scenarios, and consider alternative design criteria for different types of facilities, levels of use, and/or areas. Identify and incorporate features to promote resilience, such as stormwater retention basins.





A freshwater-dependent pine tree stump rooted in a salt marsh on Big Pine Key

Downtown Key West with a high tide and a heavy rainfall



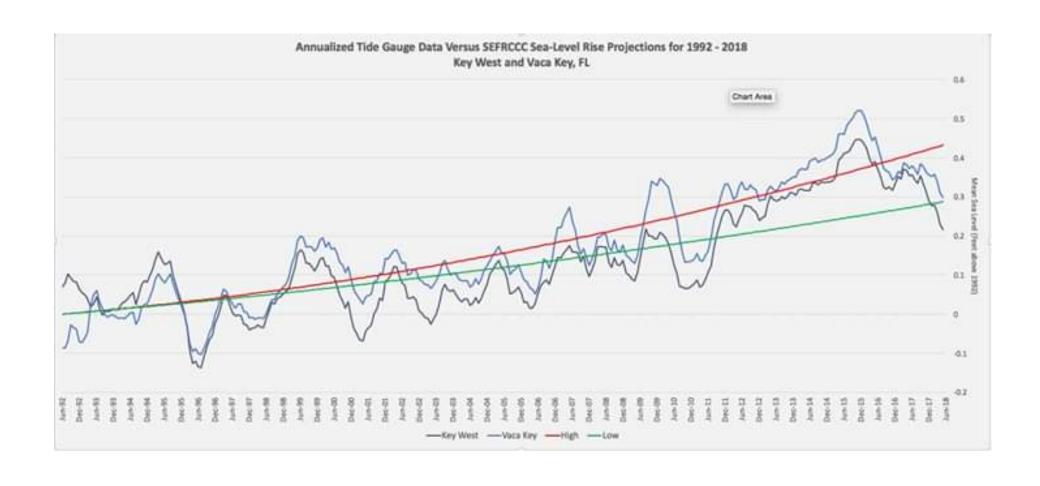
Unified Sea Level Rise Projection for Southeast Florida

2019 PROJECTION AND SUMMARY

This Unified Sea Level Rise Projection for Southeast Florida updated in 2019 projects the anticipated range of sea level rise for the region from 2000 to 2120 (Figure 1). The projection highlights three planning horizons:

- **1. short term:** by 2040, sea level is projected to rise 10 to 17 inches above 2000 mean sea level.
- **2. medium term:** by 2070, sea level is projected to rise 21 to 54 inches above 2000 mean sea level.
- 3. long term: by 2120, sea level is projected to rise 40 to 136 inches above 2000 mean sea level.

Sea Level Rise Projections vs. Reality analysis by Monroe County



Projected Increase in Nuisance Flooding



External Water Quality Influences

- South Florida Regional Influences:
 - Tidal Flooding and Climate

Local Water Quality Issues

- Stormwater
- Wastewater +
- Canal Restoration
- Sargassum and Organic Debris
 - Marinas and Liveaboards
- Emerging Pollutants of Concern