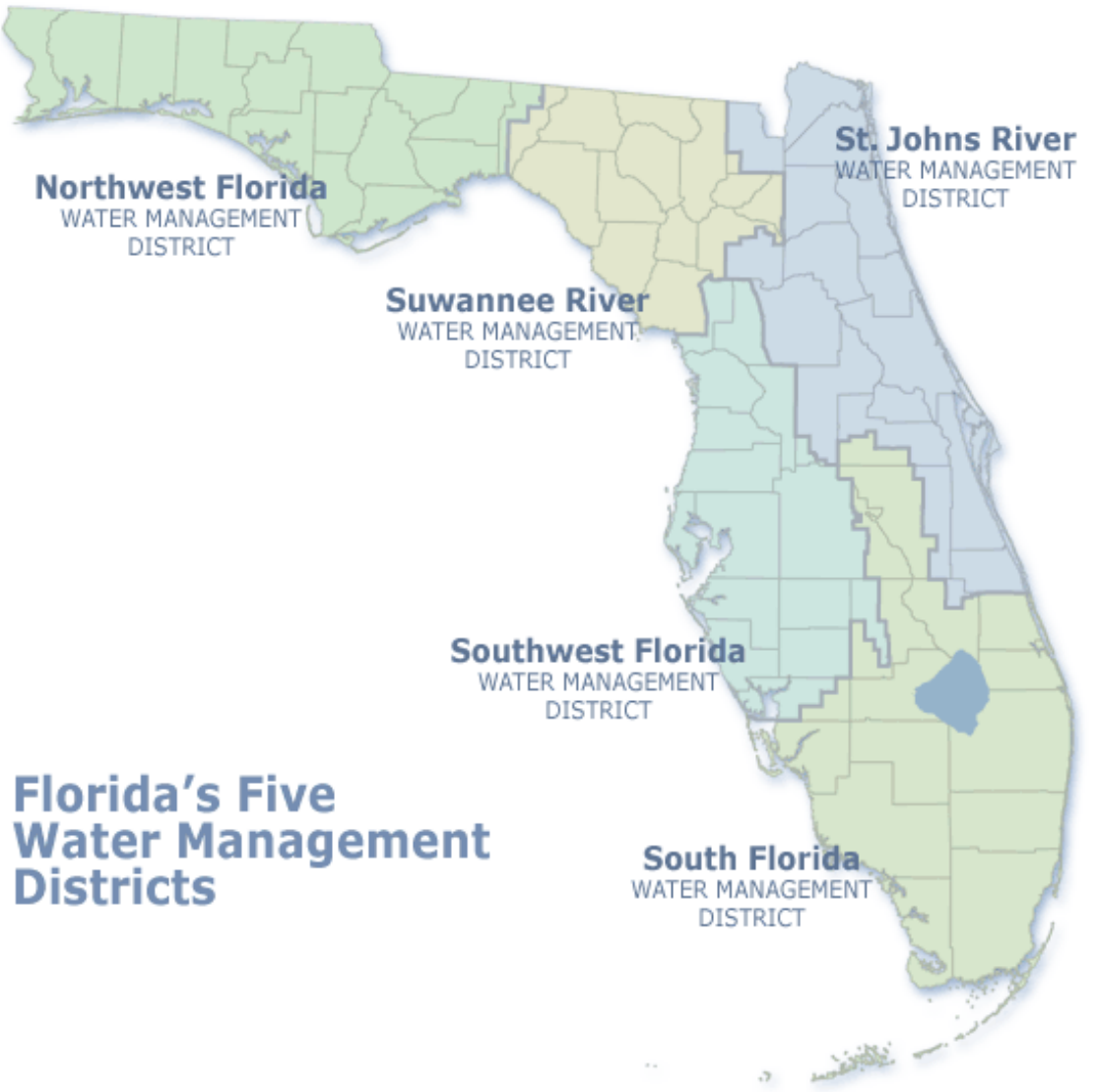


Drew Bartlett, Executive Director



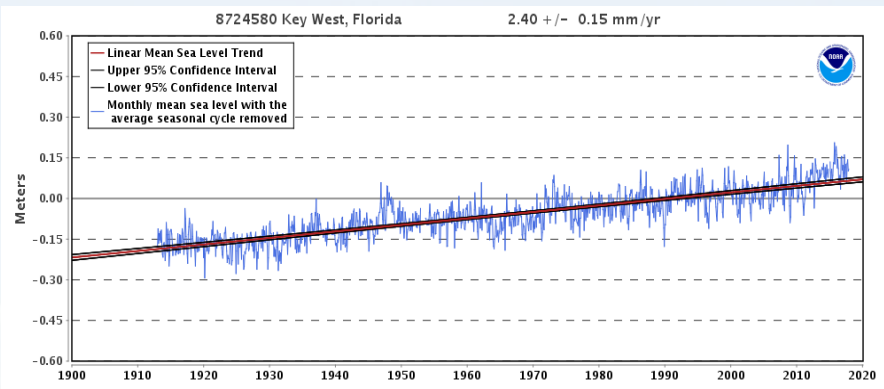
Florida's Largest Water Management District



- Broward County
 - Collier County
 - Glades County
 - Hendry County
 - Lee County
 - Martin County
 - Miami-Dade County
 - Monroe County
 - Palm Beach County
 - St. Lucie County
-
- Portions of Charlotte, Highlands, Okeechobee, Orange, Osceola, and Polk Counties

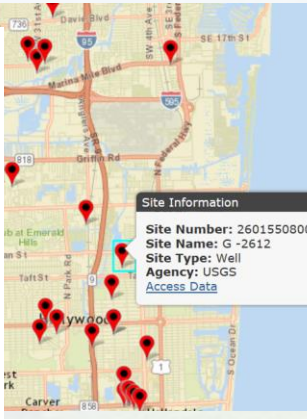
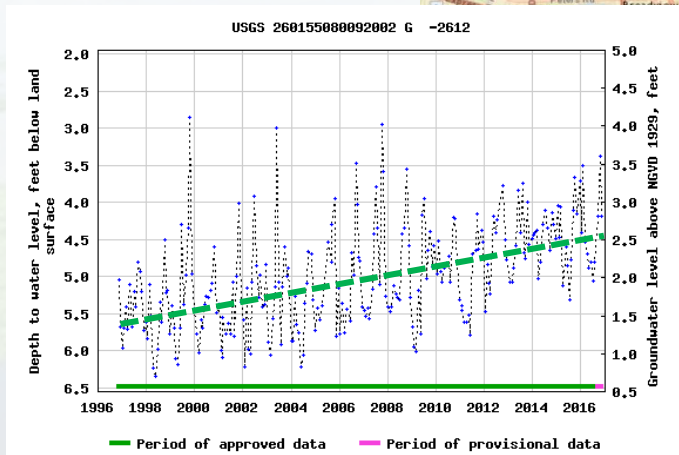
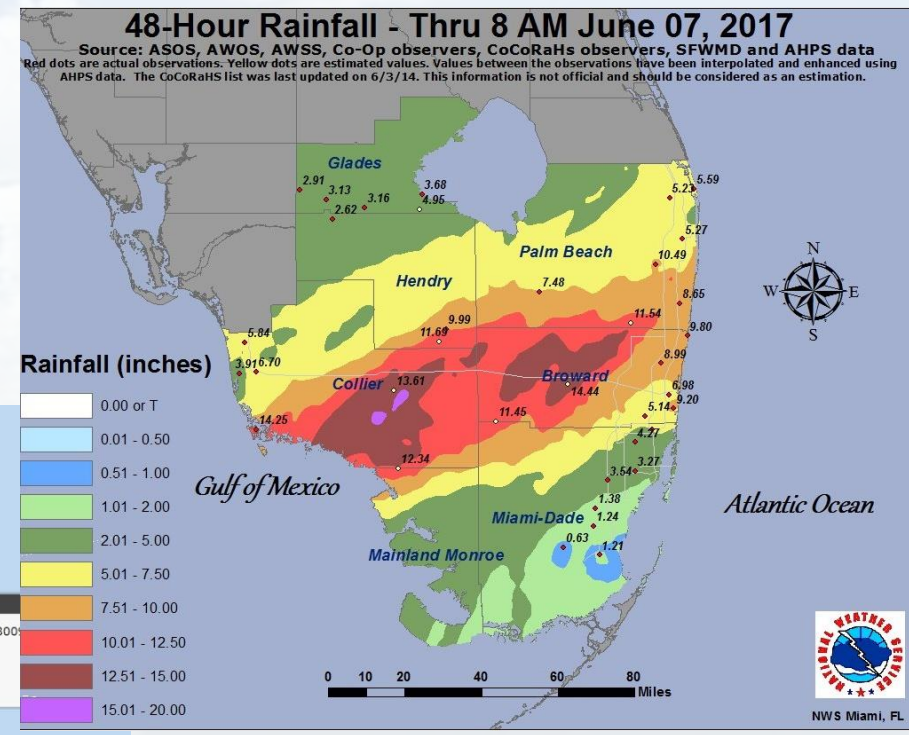
Climate Changed Conditions

SEA LEVEL RISE



Associated with High Tides

MORE EXTREME RAINFALL



HIGHER GROUNDWATER

Background: Central & Southern Florida Project



- Flood Control Act of 1948 – Congress authorizes the U.S. Army Corps of Engineers to design and construct water management infrastructure
- Projected to serve a population of 2 million people
- Authorized purposes: flood control, water supply, navigation, prevention of saltwater intrusion, and protection of fish and wildlife resources
- Served as the foundation for the SFWMD

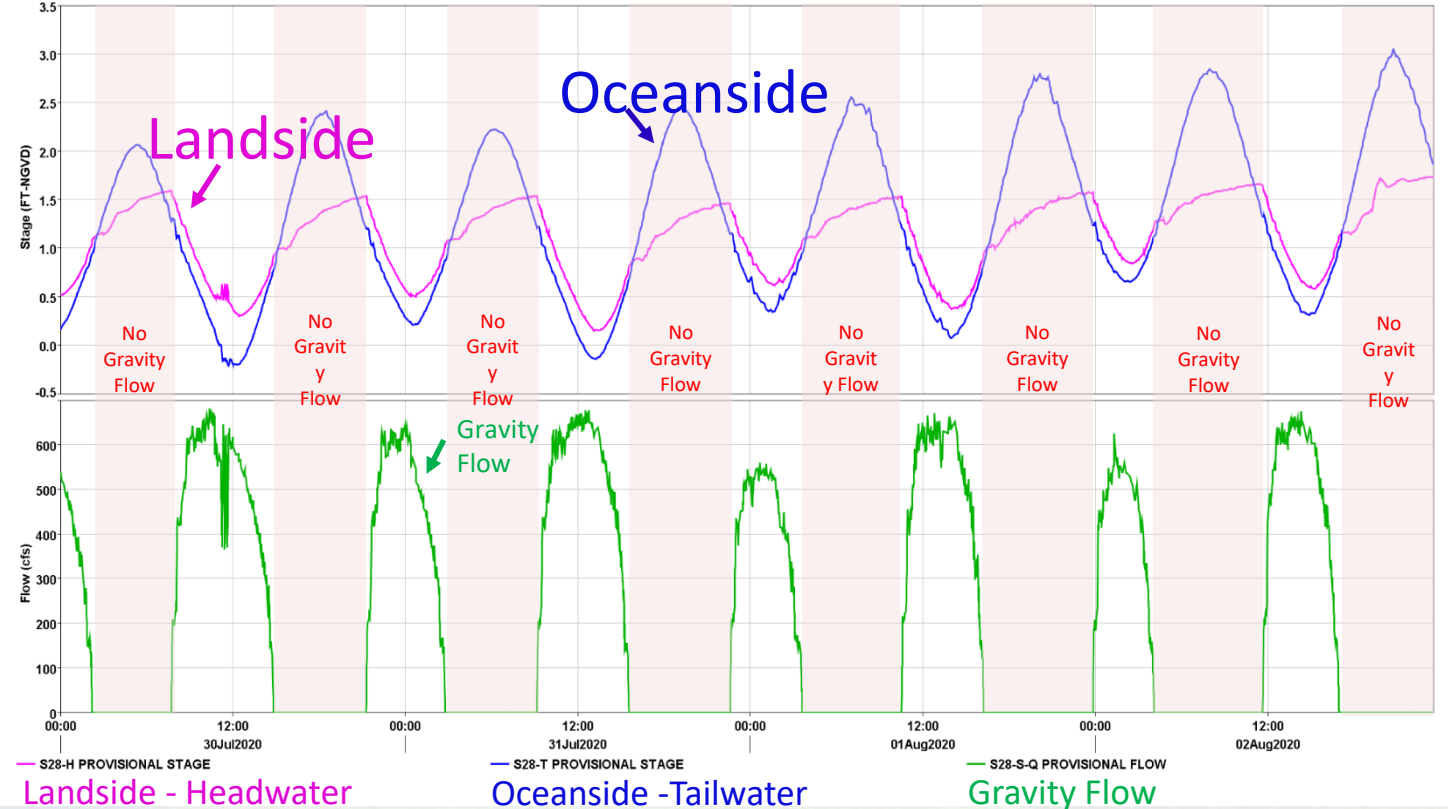
Limitations in Operation



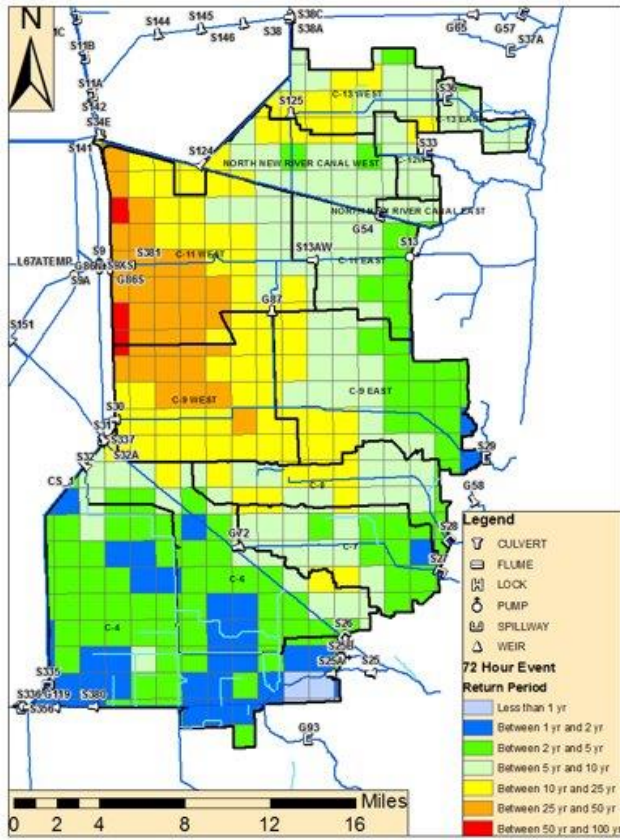
Isaias - Light Rain



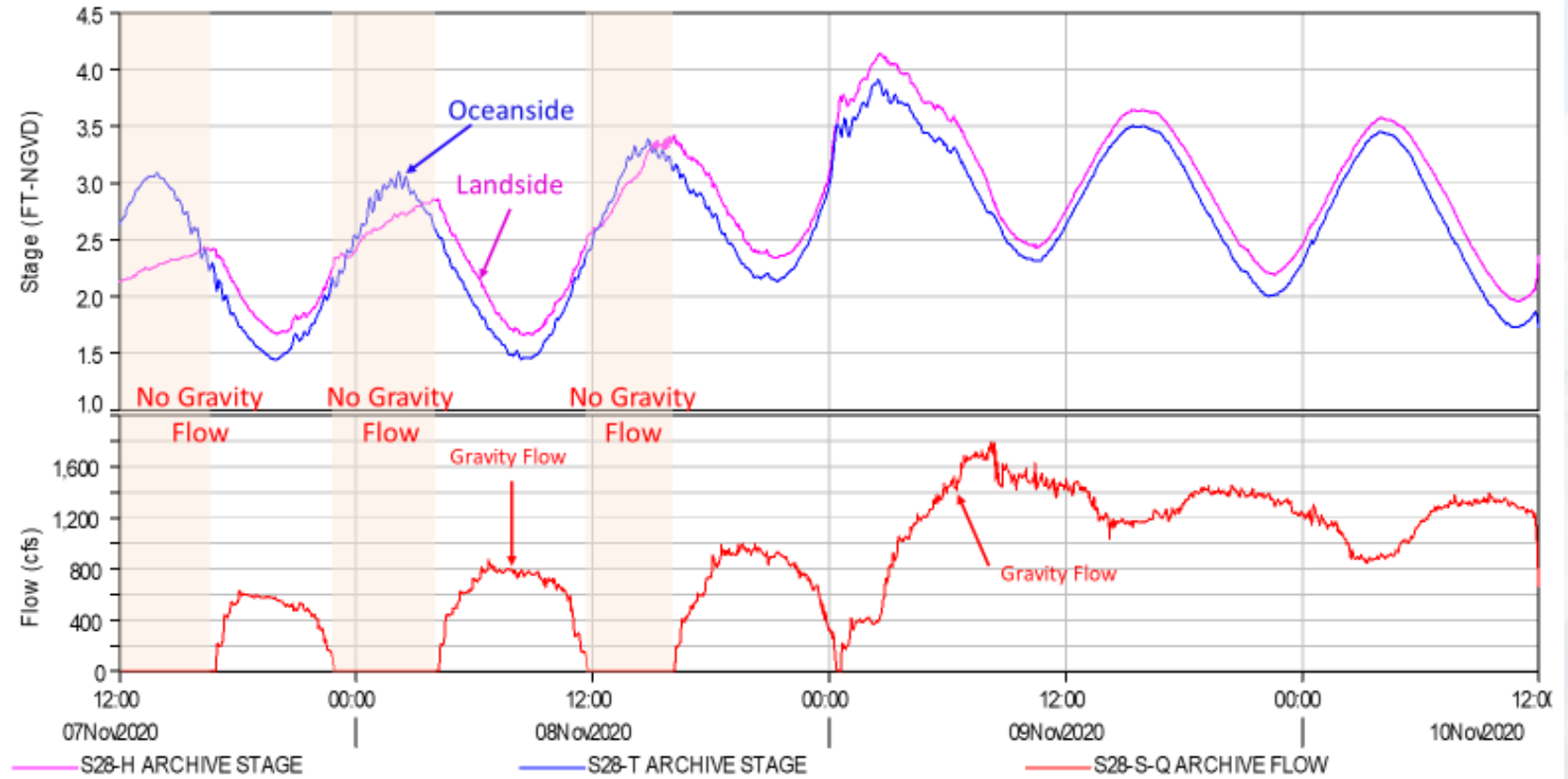
S28 (Gravity) - Instantaneous Stages and Flows



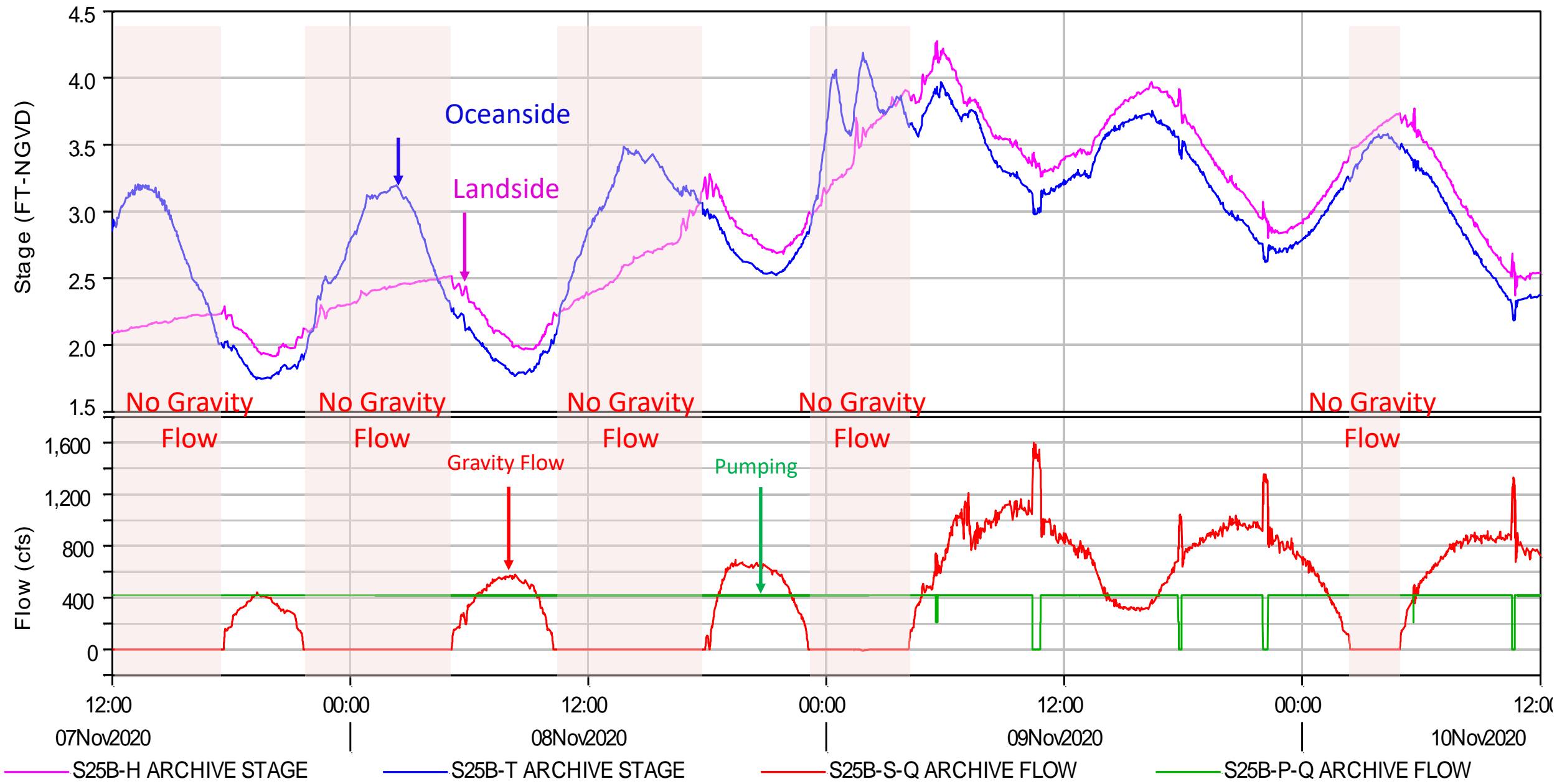
Eta - Heavy Rain



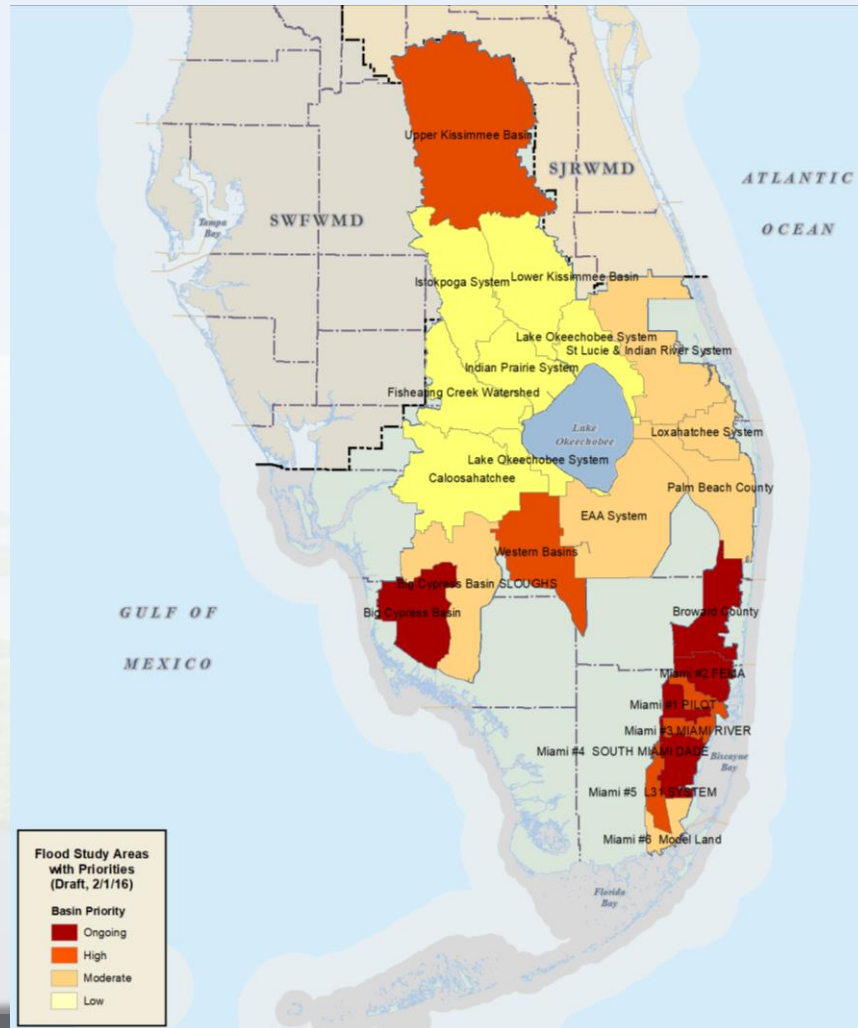
S28 (Gravity) – Instantaneous Stages and Flows



S25B (Gravity and Forward Pump) – Instantaneous Stages and Flows




Flood Protection Level of Service Program




Flood Protection Level of Service Program





BUILDING FLOOD RESILIENCY AT CRITICAL BASINS IN SOUTH FLORIDA: C-9 BASIN



South Florida Water Management District (District) is requesting FEMA grant funding to advance flood risk reduction measures for the C-9 Basin, a region of about 450,000 people and 100 square miles, in the southern portion of Broward County and northeastern portion of the Miami Dade County. The area drained by the C-9 primary canal is fully developed with primarily residential and commercial uses. The C-9 Canal is the central flood control feature which receives and conveys basin flood waters by gravity through the S-29 Coastal Structure to sea.


As evidenced during the recent Tropical Storm Eta, sea level rise is limiting the ability of these central flood control features to convey flood waters. Serious flooding events occurred at C-9 Basin, with above 100-year rainfall volumes, and higher sea levels impeding the S-29 Coastal Structure to deliver those volumes to the sea.

The proposed projects at C-9 Basin include local and regional flood mitigation measures to reduce flood risk exacerbated by sea-level rise during the frequent times that the flow gates at S-29 Coastal Structure are impeded or closed during high tide.

Scenario	Flow Discharge (MGD)
1963 Sea Level	~8500
Current Sea Level	~5500
Future Sea Level (Low Projection)	~3500
Future Sea Level (Medium Projection)	~2500
Future Sea Level (High Projection)	~1500

*Flow discharge rates at peak of 2-yr storm surge, average over tide cycle, S-27 spillway with design headwater and tailwater

Retrofitting the structure with forward pumps, so flood waters can be conveyed at higher sea levels, is necessary to provide flood control now and into the future. A significant associated benefit is the protection of water supply sources (including the Biscayne Aquifer – a sole source aquifer) in the Basin, by retrofitting the structure to prevent sea water overtopping at the gates and reduce saltwater intrusion.



- **FEMA BRIC Proposals: S-29 AND S-27 forward pump and additional basinwide mitigation strategies**
- **FY21 Budget: Funding to Initiate Design**
- **Funding Alternatives to advance full implementation**
- **Looking to increment pump sizes, in partnership with the State**

Historic and Largest Florida Flooding and Sea Level Rise Resilience Initiative

- **SB1954: Resilient Florida Program**
- Over \$640 million available to support efforts to ensure state and local communities are prepared to deal with the impacts of sea level rise, intensified storms and flooding



Critical C&SF Flood Resiliency Plan

- C&SF Review Study due to changed physical conditions
- Conducted under Section 216 of the Flood Control Act of 1970
- USACE Jacksonville District is completing a 216 Initial Appraisal Report in order to qualify for study funds
- FY22 Regular Budget or FY21 Workplan



Public Interest

United States Senate

WASHINGTON, DC 20510

January 16, 2020

The Honorable R.D. James
Assistant Secretary of the Army – Civil Works
Department of the Army
108 Army Pentagon
Washington, D.C. 20310-0108

Dear Assistant Secretary James:

As you finalize the planning and selection process for the Fiscal Year 2020 (FY20) Work Plan following passage of H.R. 1865, the *Further Consolidated Appropriations Act, 2020*, we request that all proposed and ongoing projects in Florida receive full and fair consideration of their value to local communities, our state, and our nation. Building on our shared progress from FY19, we look forward to working with your office, as well as U.S. Army Corps of Engineers (USACE) Headquarters, South Atlantic Division, and Jacksonville and Mobile District offices, to ensure sufficient resources to fund feasibility studies, preconstruction engineering and design (PED) work, and construction, as warranted throughout Florida. We specifically support funding to allow the below projects to achieve and sustain significant momentum towards completion:

- **C&SF Project Flood Control Restudy*** – *Proposed to improve the efficacy and cost-effectiveness of South Florida's aging water management infrastructure in concert with concurrent efforts to enhance the region's water management and resilience, including through CERP, LOSOM, and the South Atlantic Coastal Study.*

support of these essential projects and ongoing improvements in coordination at all levels of the USACE with non-federal interests in Florida.

Sincerely,



Marco Rubio
U.S. Senator



Rick Scott
U.S. Senator



SOUTHEAST FLORIDA REGIONAL CLIMATE CHANGE COMPACT COUNTIES 2019 FEDERAL LEGISLATIVE PRIORITIES

*APPROVED BY THE COMPACT POLICY WORKING GROUP AND STAFF STEERING COMMITTEE
OCTOBER 29, 2018*

Concerning federal legislation, regulations, and policies, the Compact Counties and other organizations adopting this document:

SUPPORT efforts to reauthorize, improve, and strengthen the National Flood Insurance Program with provisions that limit premium rate increases and protect affordability, encourage greater program participation, expand the Increased Cost of Compliance Program, emphasize and increase funding for mitigation, and develop accurate flood maps.

SUPPORT action by the US Army Corps of Engineers to reassess the Central and South Florida Flood Control Project given changing climate conditions, especially sea level rise.

Resiliency Issues on the Horizon

- There is a problem and there are opportunities
- It will take time and money to solve
- Collaboration is key: solutions span multiple boundaries
- SFWMD is strongly committed to address sea level and other changing climate impacts



Achieving More Now For Florida's Environment

Executive Order 19-12

- Prioritized water projects
- Created *Office of Resilience and Coastal Protection*
- Expedited Everglades restoration projects
- Called for funding for Florida's environment



Since Then... Progress and Record Funding



- More than **\$2 billion** in water quality and Everglades funding
- **\$500 million** to date in Resilient Florida
- **Dozens of projects** completed or broken ground

Thank You

Drew Bartlett, Executive Director
South Florida Water Management District
Drew.Bartlett@sfwmd.gov

