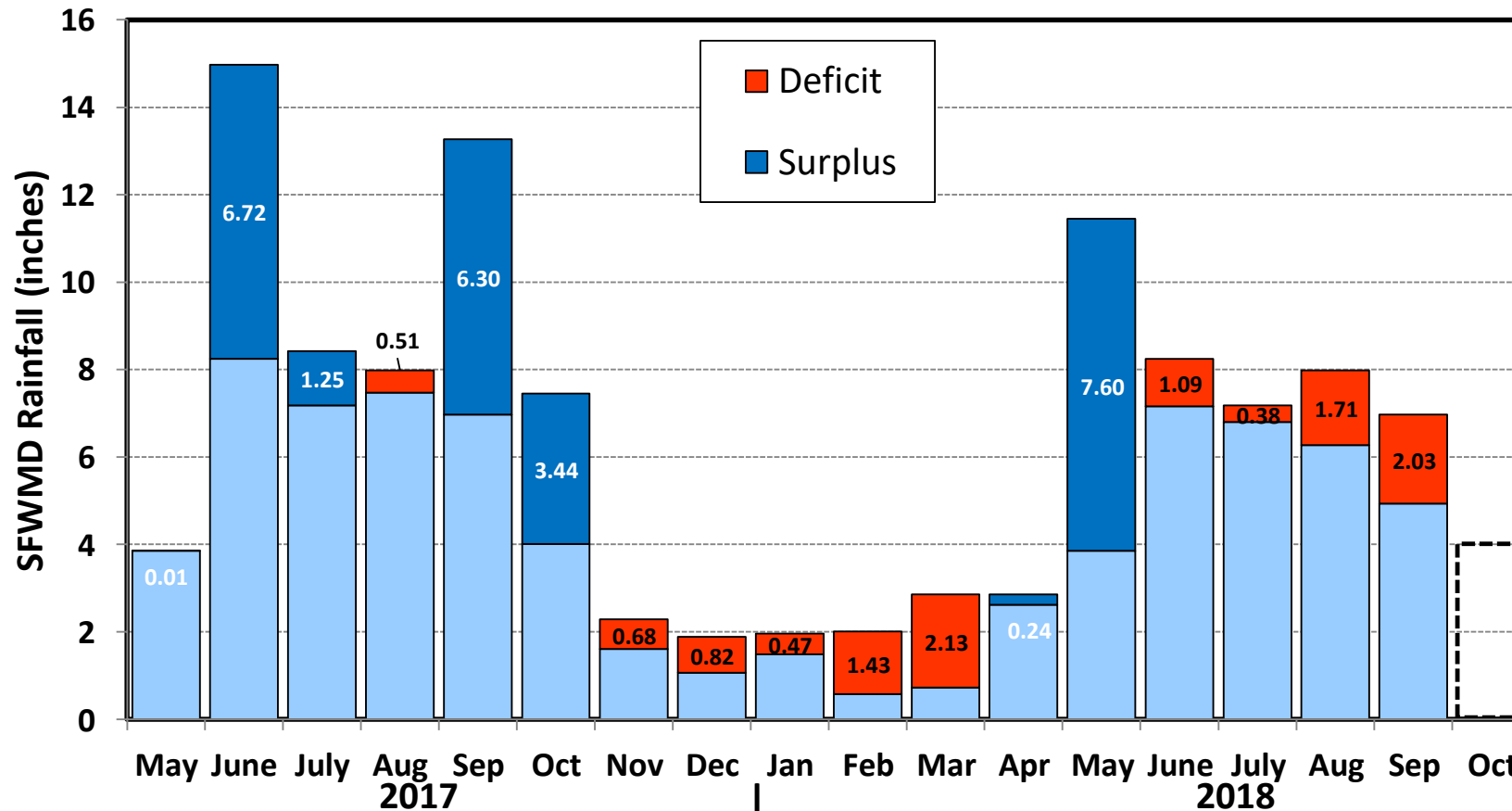


Water Conditions Summary

**South Florida Water Management District
WRAC Meeting
October 4, 2018**

**John P. Mitnik, PE
Chief District Engineer**

SFWMD Rainfall Distribution Comparison (May 2017 - October 2018)



2017-2018 WET SEASON:

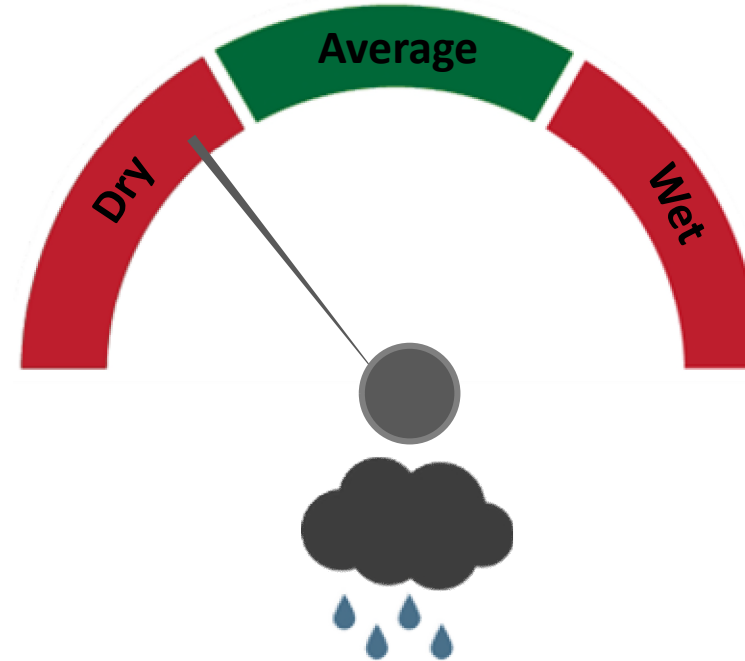
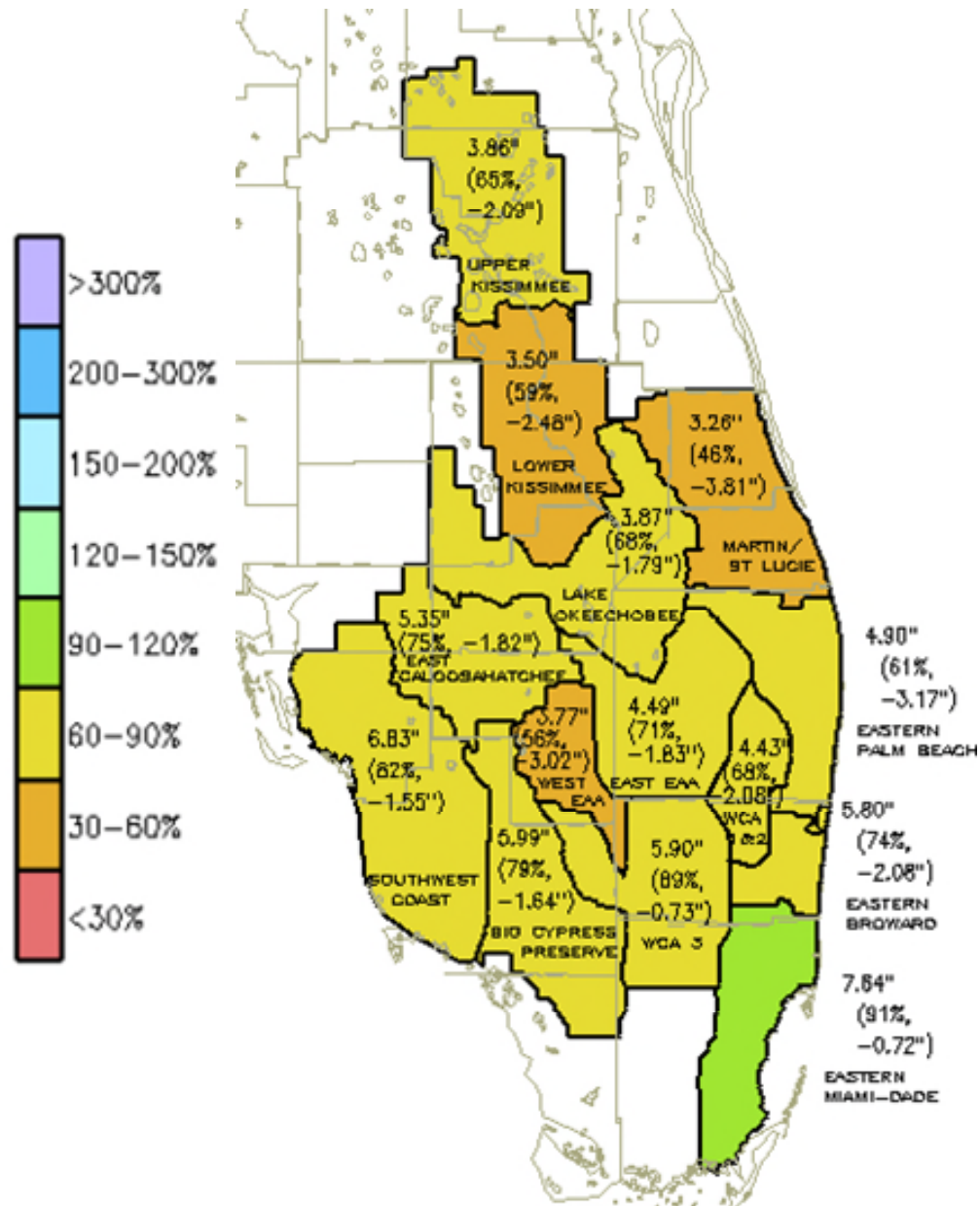
- June, September and October 2017 were ~ 190% average
- Hurricane Irma Impact ~ 8.5"
- TS Philippe ~ 2.4"

2018 DRY SEASON:

- Below average
- April was first month above average after 5 dry months
- Wettest May in the POR

2018-2019 WET SEASON:

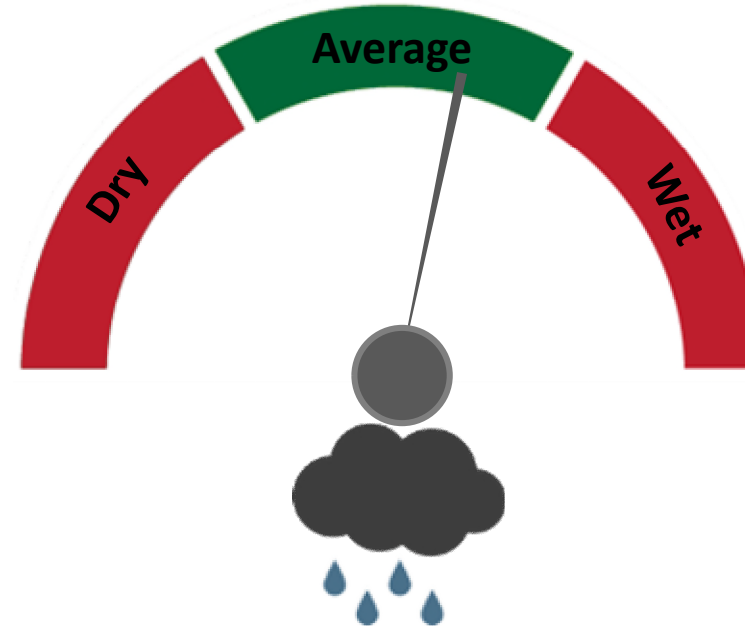
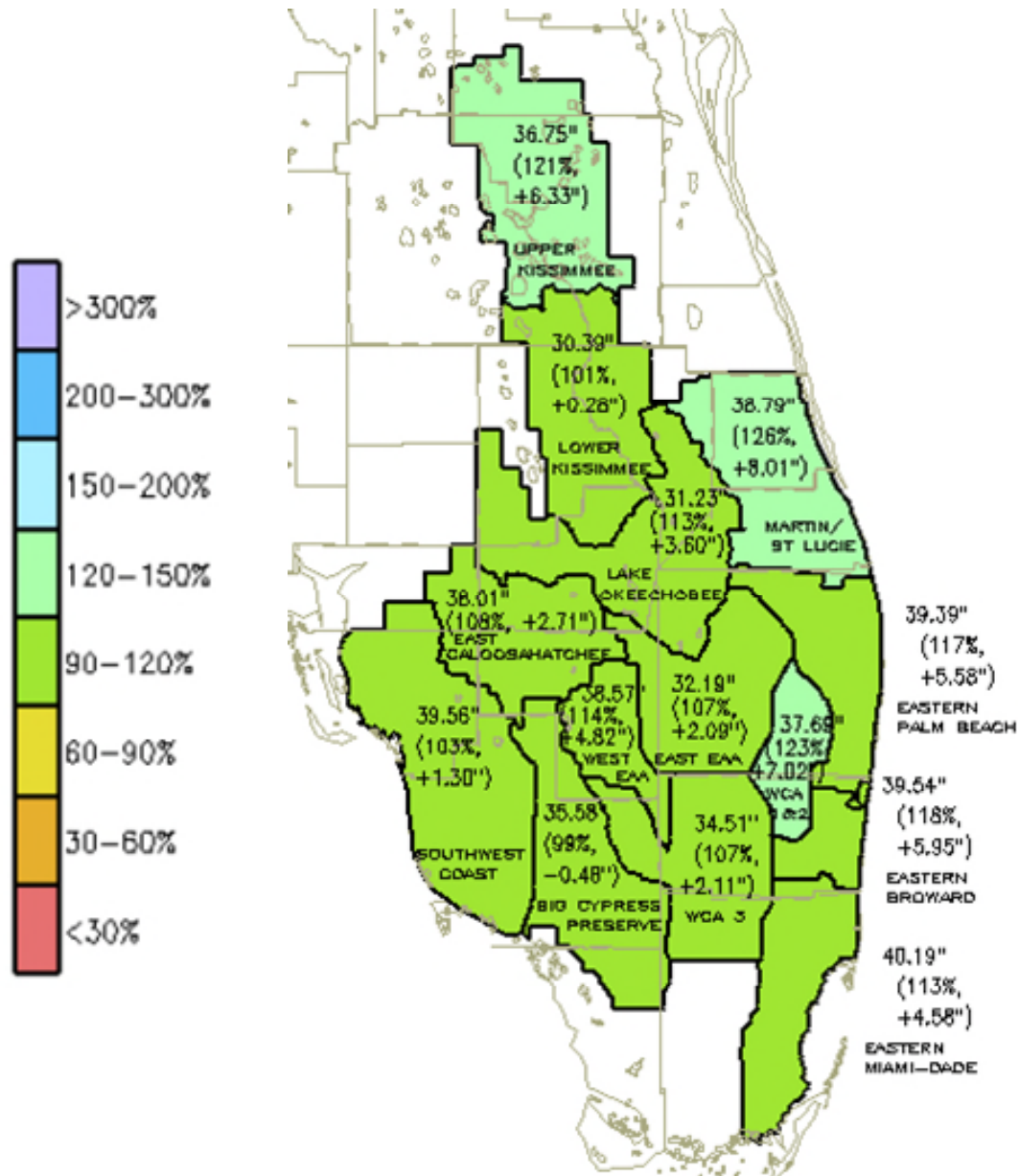
- All months in the wet season up to date have below average rainfall
- September 2018 rainfall was below average, including TS Gordon and the effect from Florence



SFWMD

SEPTEMBER 2018**DISTRICT-WIDE: 4.94"**

- Below average: 71% or -2.03"
- Most rainfall areas were 90% or less of average
- Eastern Miami-Dade was the area with largest rainfall (~ 91% of average)
- Largest deficit observed is at Martin/ St. Lucie with -3.81"



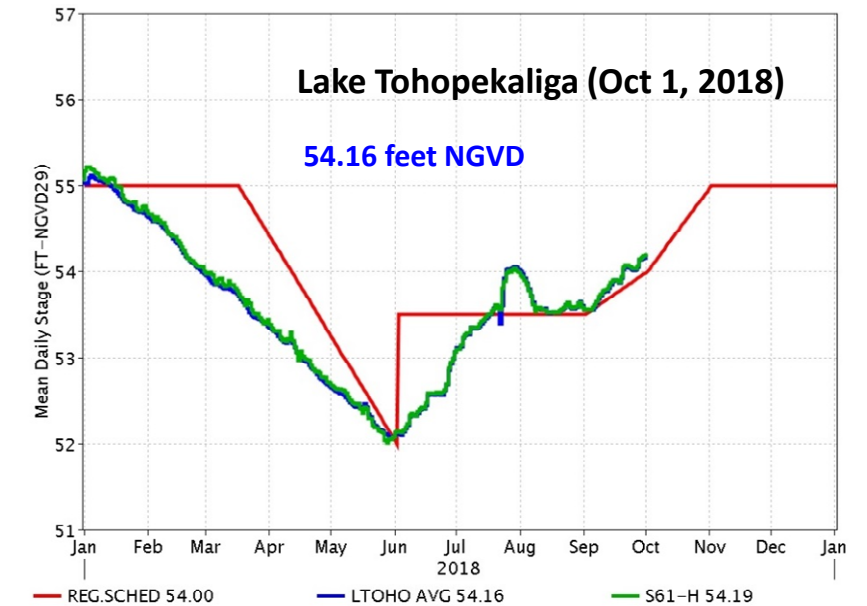
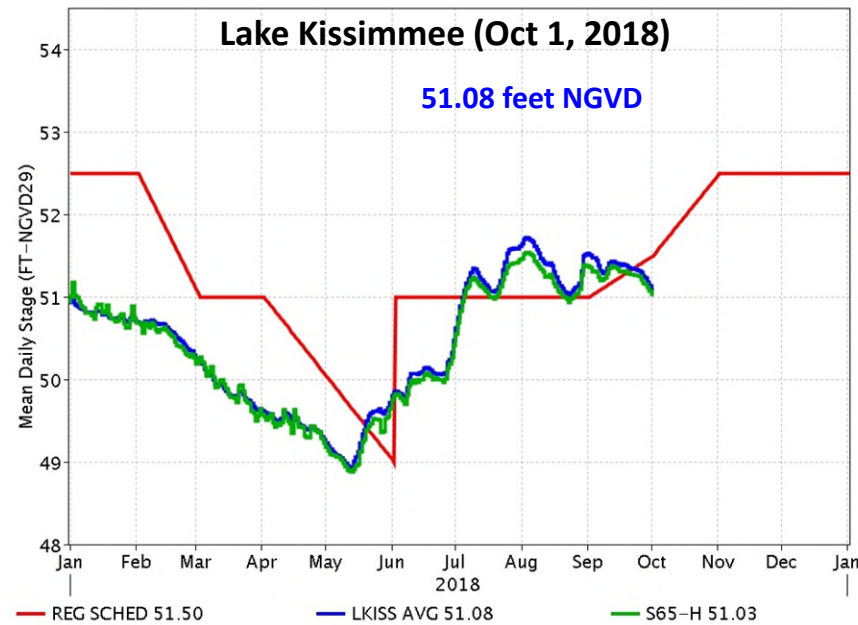
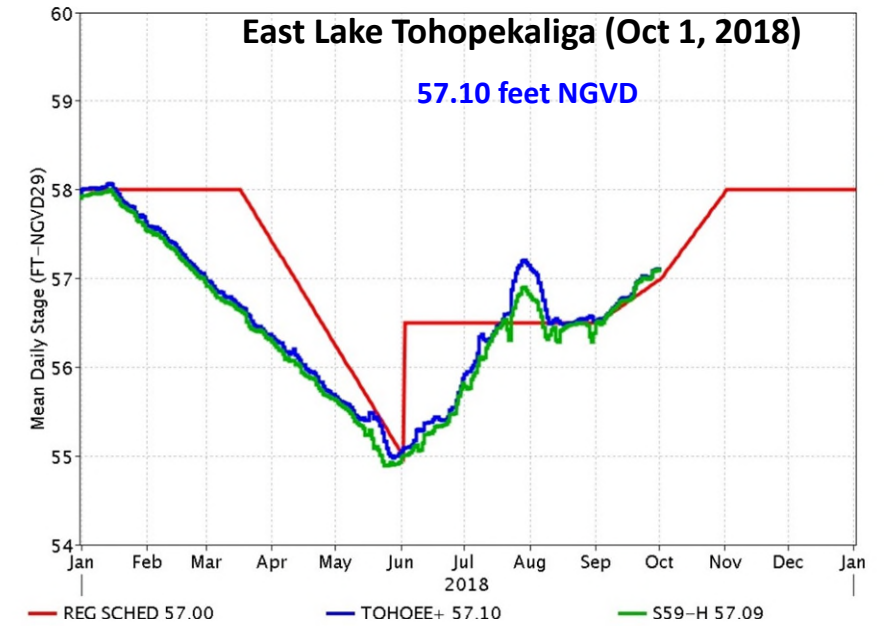
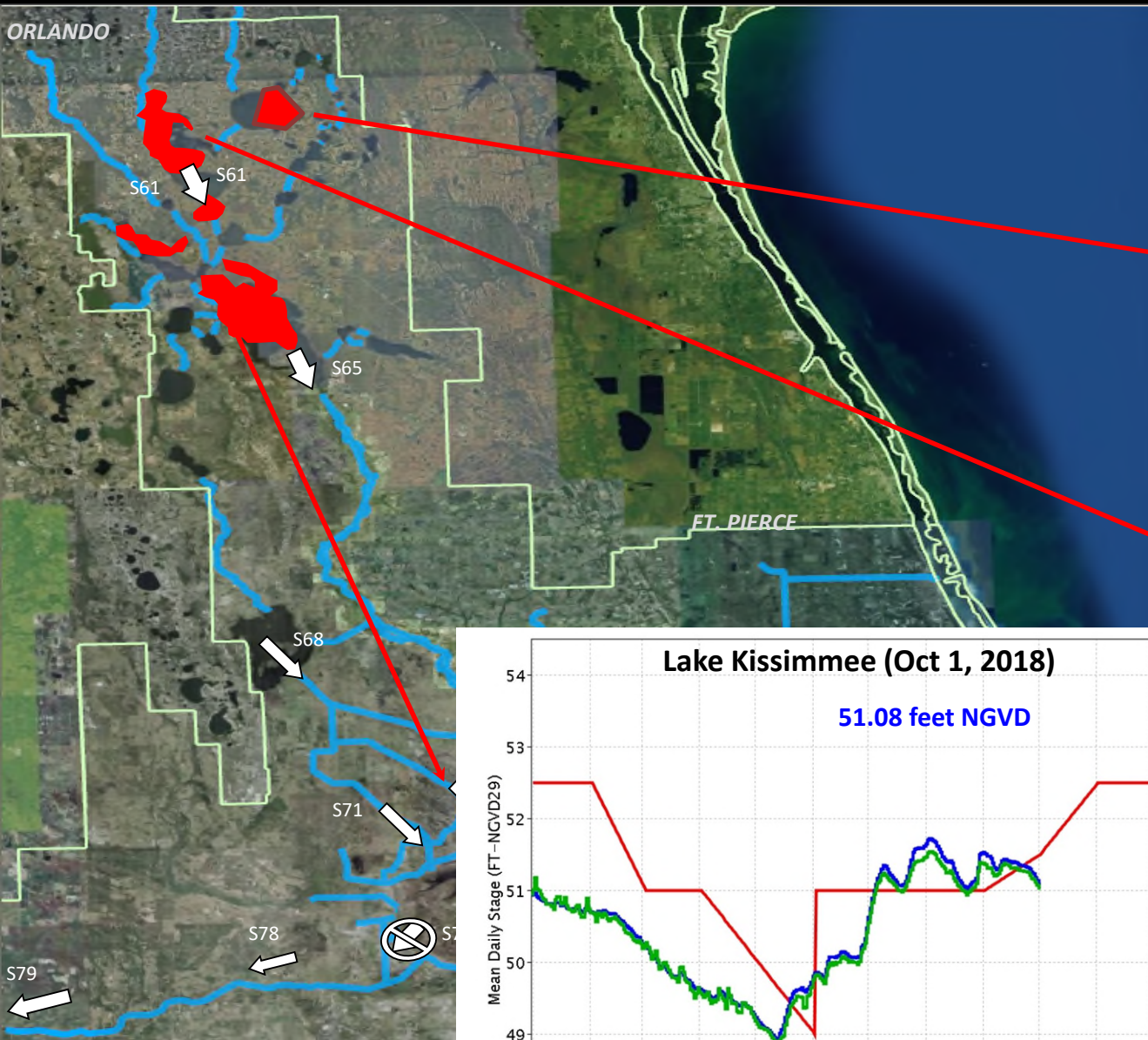
SFWMD

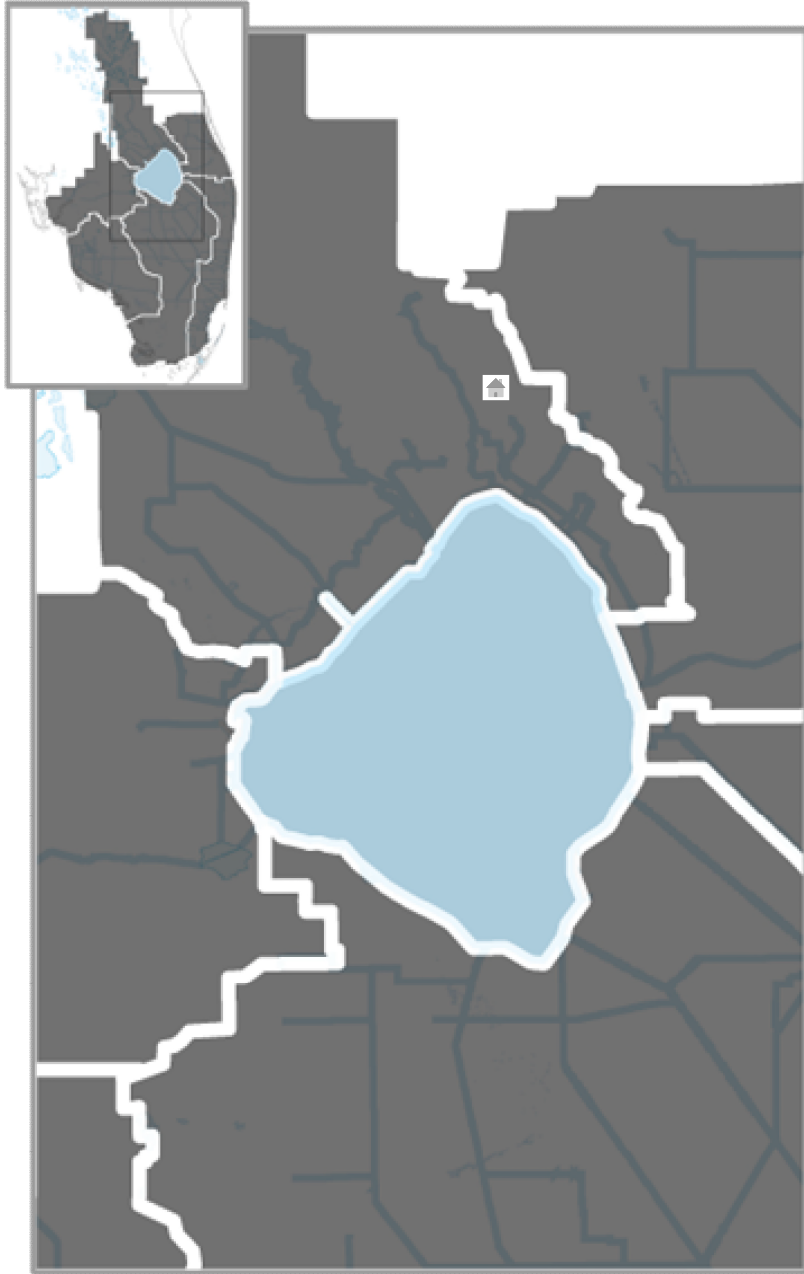
Wet Season Rainfall

14-May, 2018 to 28-Sep, 2018

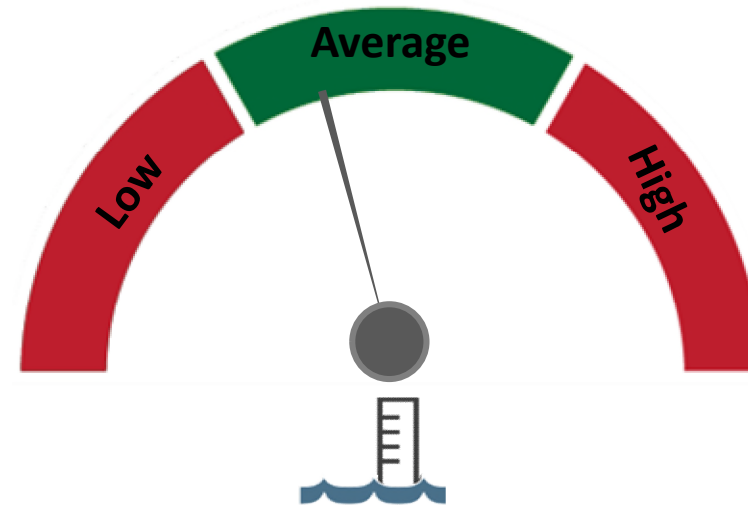
DISTRICT-WIDE: 36.04"

- 110% of average or +3.32"
- Last 2 weeks of May produced 10.87" of rain
- Rainfall for period June through September was below average
- As we progressed into September, additional basins moved from above to near-average rainfall



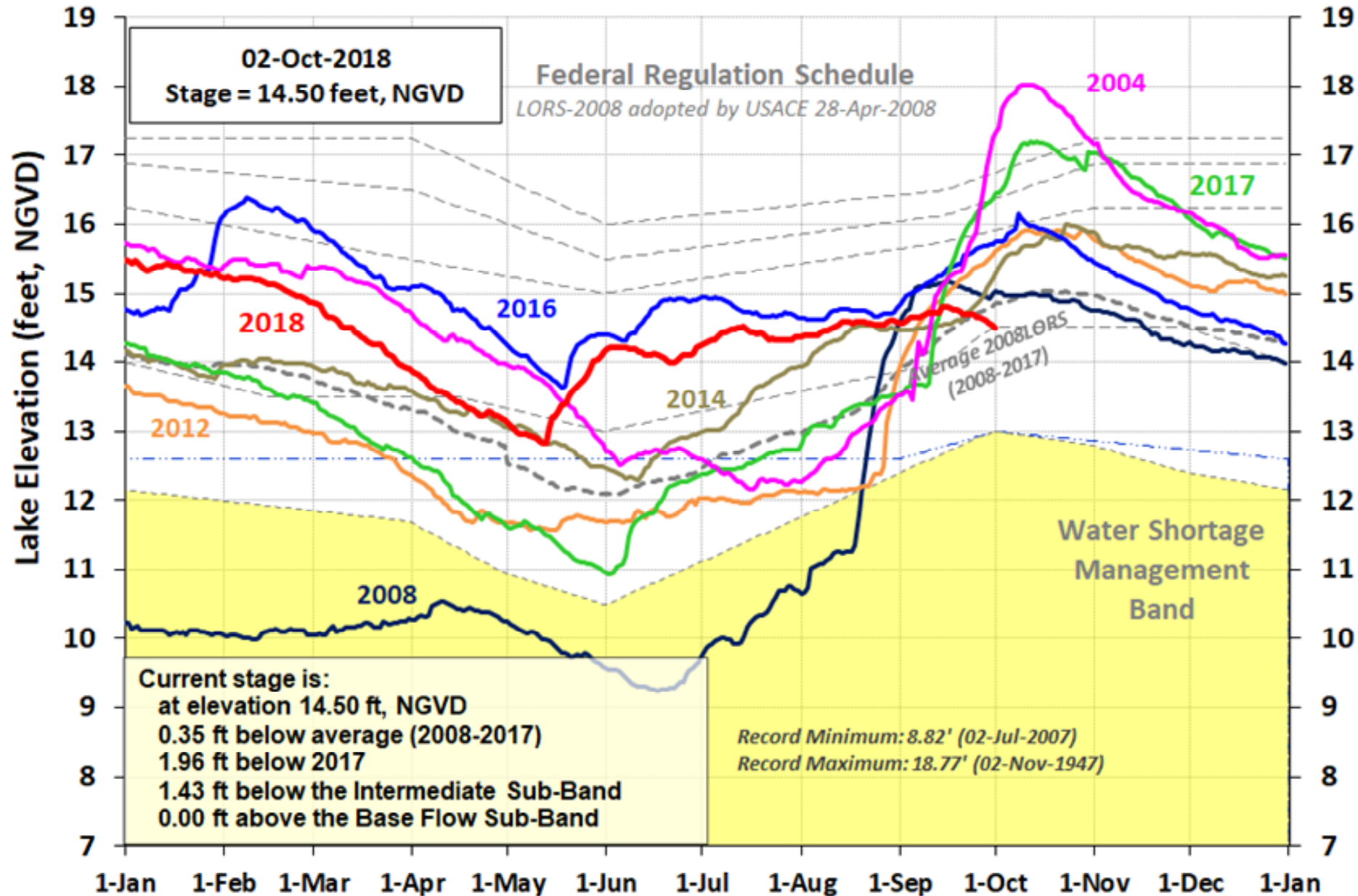


Lake Okeechobee Water Level



- Lake stage is 14.41 feet NGVD as of 10/04/2018
- Lake level decreased by 0.25 feet during the preceding 30 days.
- USACE has been implementing pulse releases to the St. Lucie Estuary and steady releases to the Caloosahatchee Estuary
- SFWMD and other agencies are implementing maximum practicable releases to the south from the Lake to WCAs

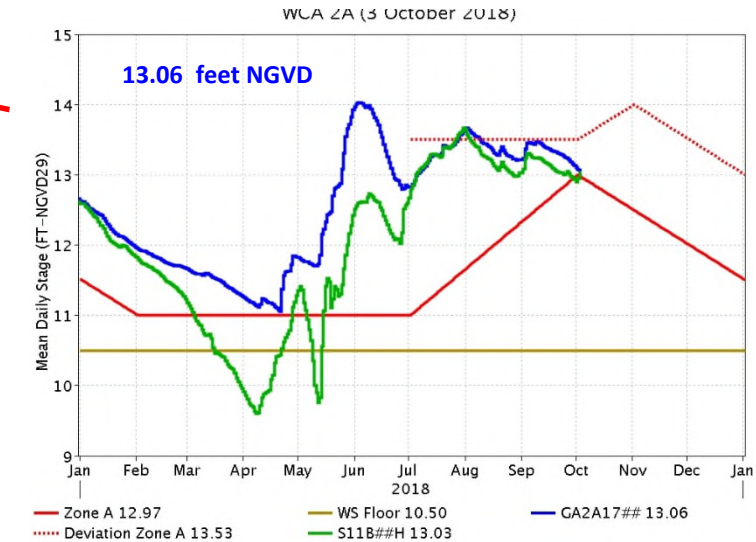
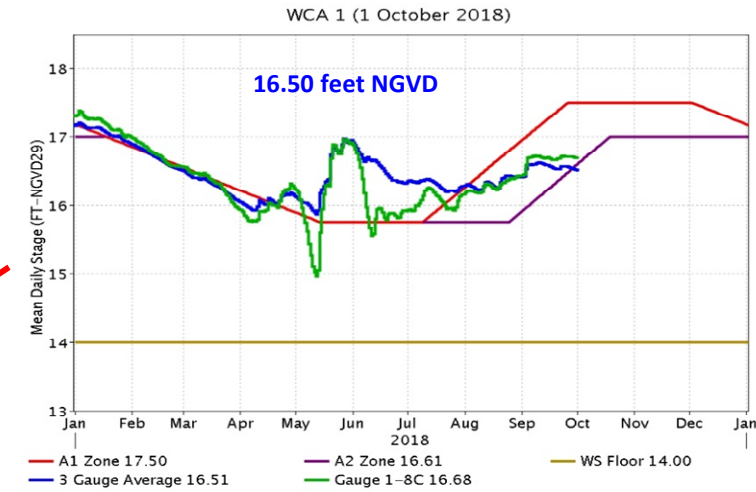
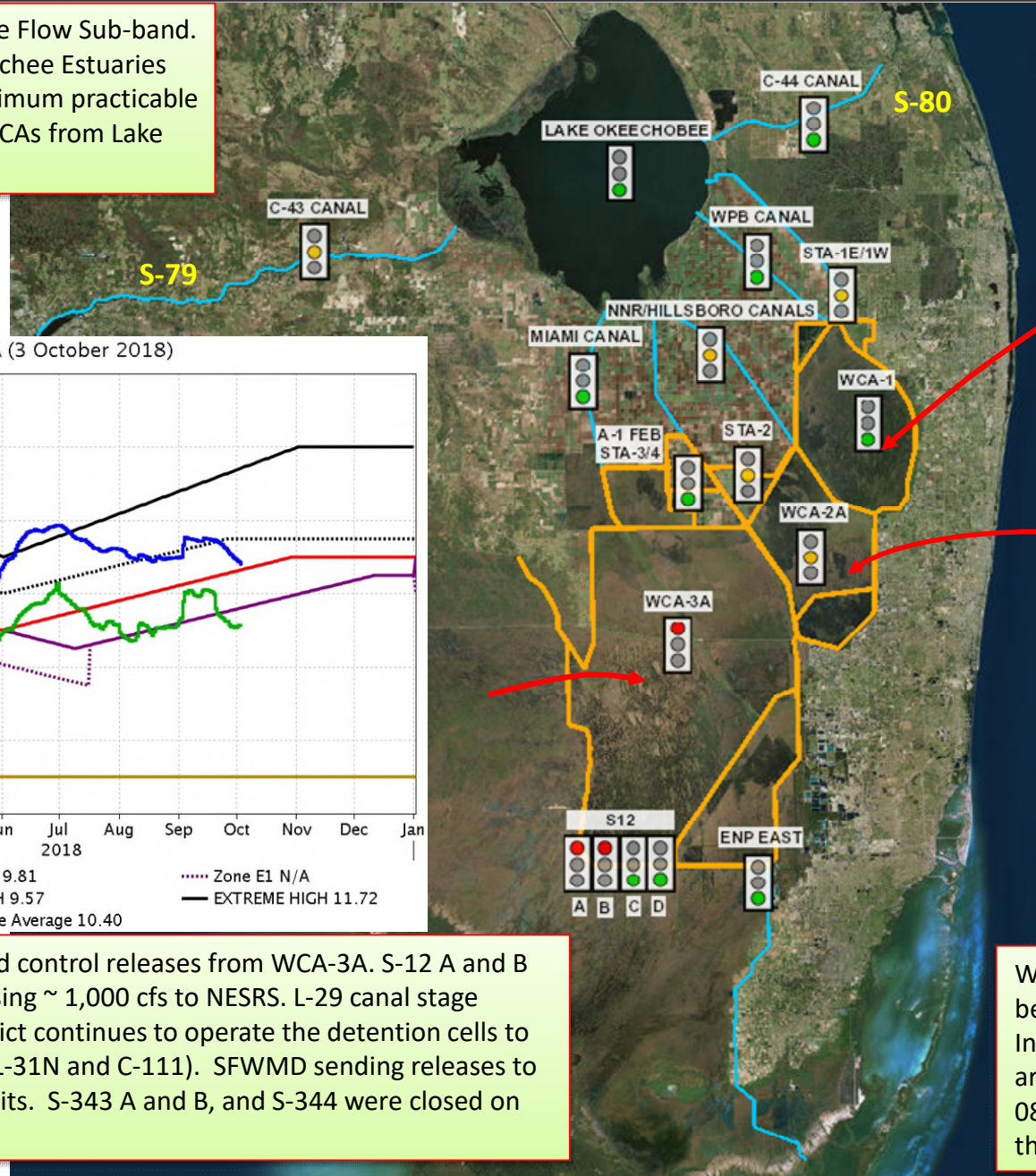
Lake Okeechobee Water Level Comparison



Lake Okeechobee stage is in the Base Flow Sub-band. Releases to St. Lucie and Caloosahatchee Estuaries continued through September. Maximum practicable releases to the south through the WCAs from Lake Okeechobee.

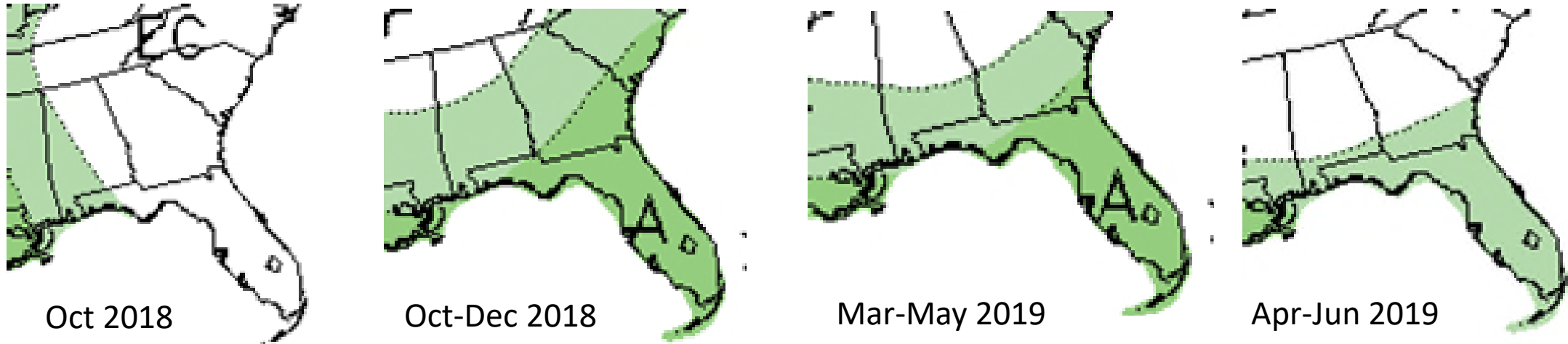


Rainfall Plan calls for maximum flood control releases from WCA-3A. S-12 A and B were closed on Oct. 1. S-333 is passing ~ 1,000 cfs to NESRS. L-29 canal stage constraint is at 8.5 feet NGVD. District continues to operate the detention cells to provide flood control for the SDCS (L-31N and C-111). SFWMD sending releases to Taylor Slough. S-356 is running 3 units. S-343 A and B, and S-344 were closed on Oct.1, 2018

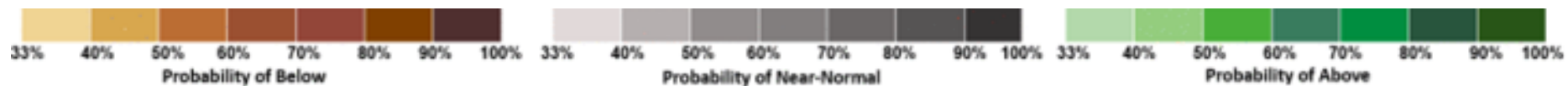


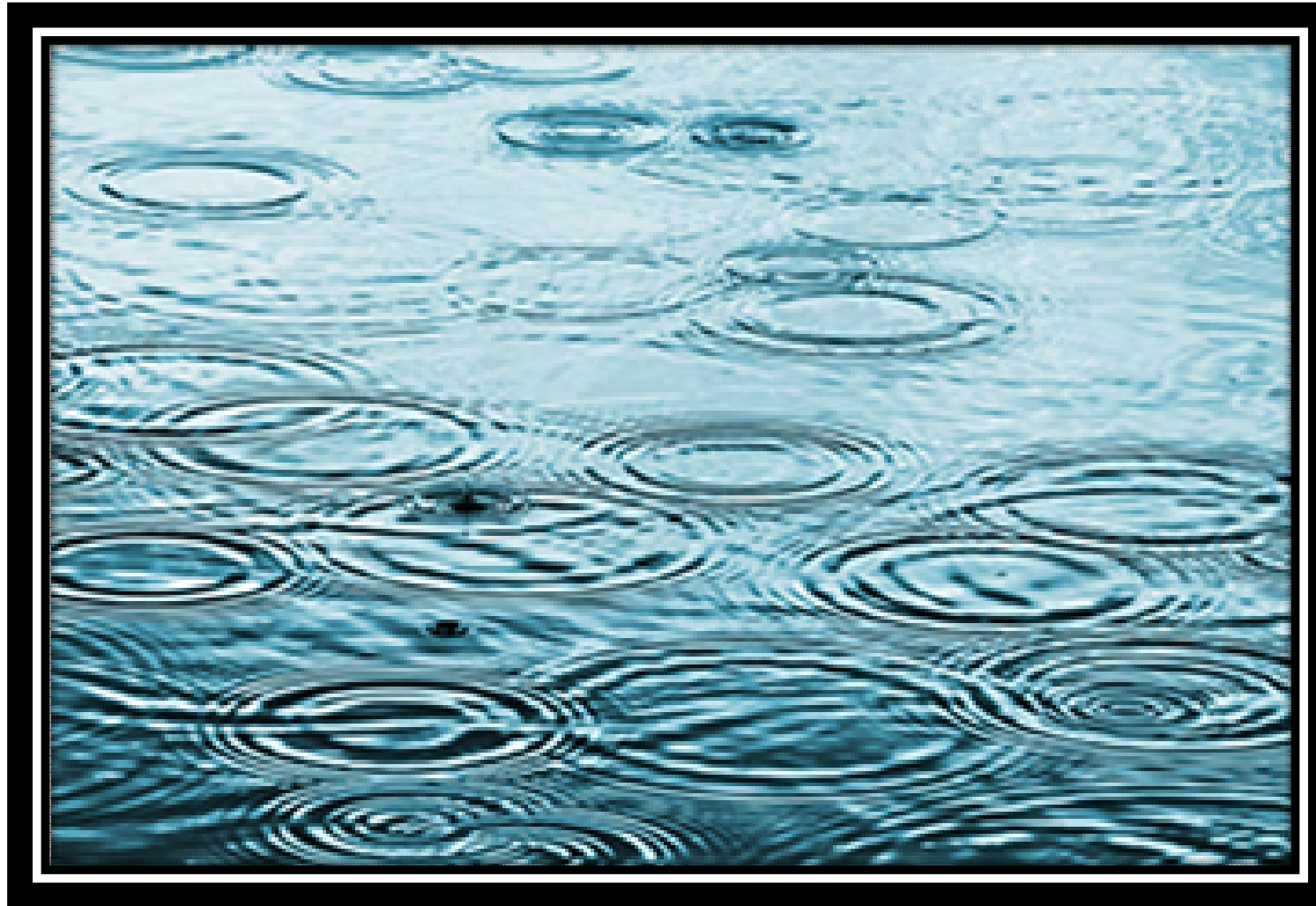
WCA-1 is below schedule; WCA-2A is above regulation schedule and below deviation schedule; WCA-3A is above schedule and below Increment 2 Action Line. Flood control releases from WCA-3A to ENP are occurring now. S-10s are closed. USACE opened the S-11s on 08/01/2018, reduced by the end of September, with further reduction this week. S-12 A and B are closed, S12C and D remain open .

CPC Precipitation Outlook



- The outlook for October 2018 is for equal chances (EC) of above-normal, normal, and below-normal
- The outlooks for all 3-month windows from Oct-Dec (2018) to Mar-May (2019) are for increased chances (45%) of above normal rainfall
- The outlooks for the 3-month window from Apr-Jun (2019) is for slightly increased chances (37%) of above normal rainfall
- The outlook for the remainder of 2019 is for equal chances (EC) of above-normal, normal, and below-normal





Questions