

Extended Hydrologic Outlook

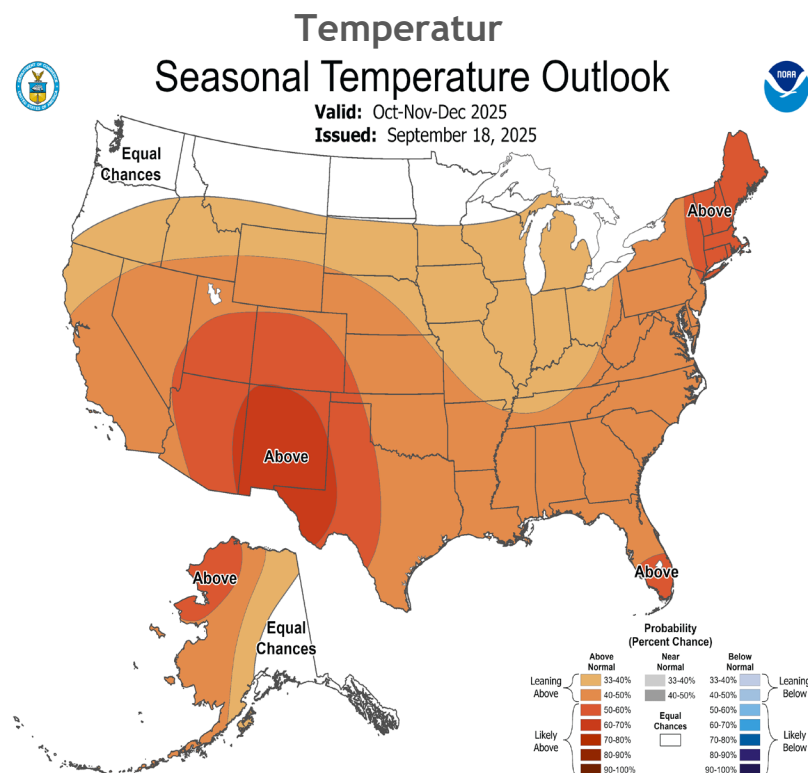
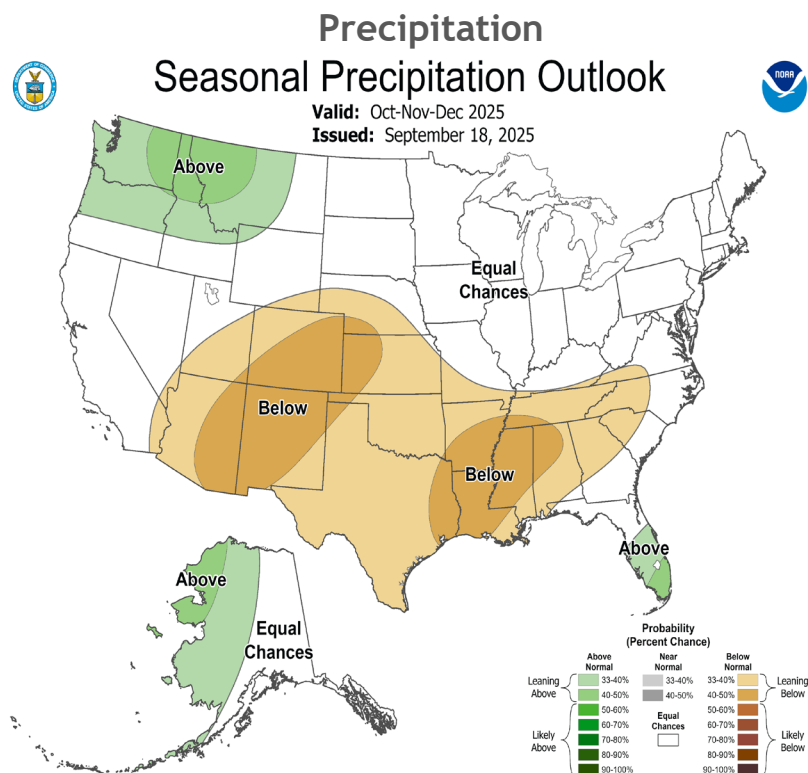
October 6, 2025

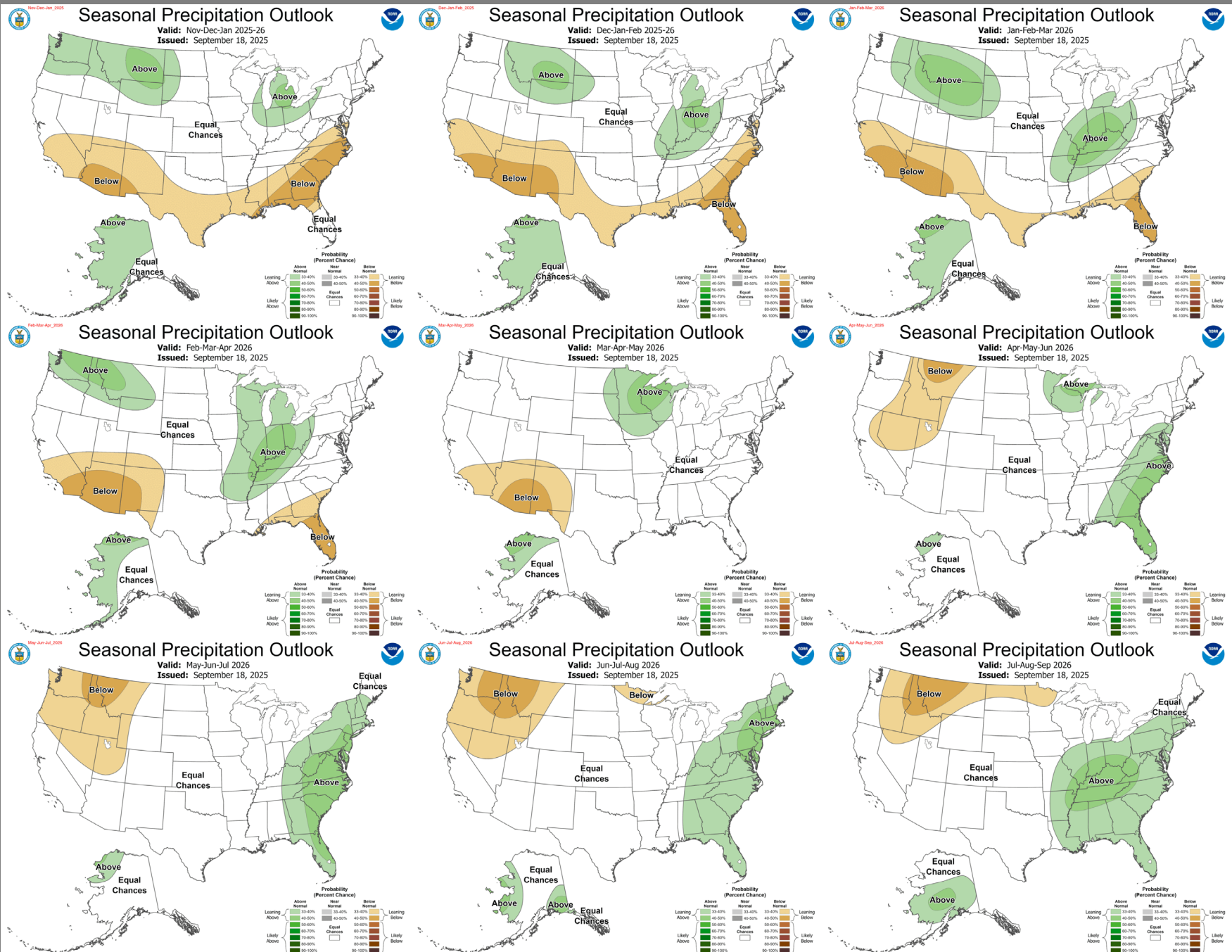
- The Climate Prediction Center (CPC) is forecasting above normal rainfall for October through December.
- A transition from ENSO-neutral to La Niña is likely in the next couple of months, with a 71% chance of La Niña during October - December 2025. Thereafter, La Niña is favored but chances decrease to 54% in December 2025 - February 2026.
- Atlantic Multidecadal Oscillation (AMO) is currently in the warm phase:
 - Average annual inflow to Lake Okeechobee is nearly 50% greater during the warm phase compared to the cold phase.

U. S. Seasonal Outlooks

October-December 2025

The seasonal outlooks combine the effects of long-term trends, soil moisture, and, when appropriate, ENSO.





Teleconnections to South Florida

Climate anomalies being related to each other at large distances:

El Niño Southern Oscillation (ENSO)

- El Niño increases the chances of a wetter-than-normal dry season and decreased tropical activity, La Niña increases the chances of a drier-than-normal dry season and increased tropical activity (both have most influence in south Florida from November through March)

Pacific Decadal Oscillation (PDO)

- Increases variations in south Florida dry season rainfall, positive leads to more El Niño events, negative leads to more La Niña events
- The current PDO is negative

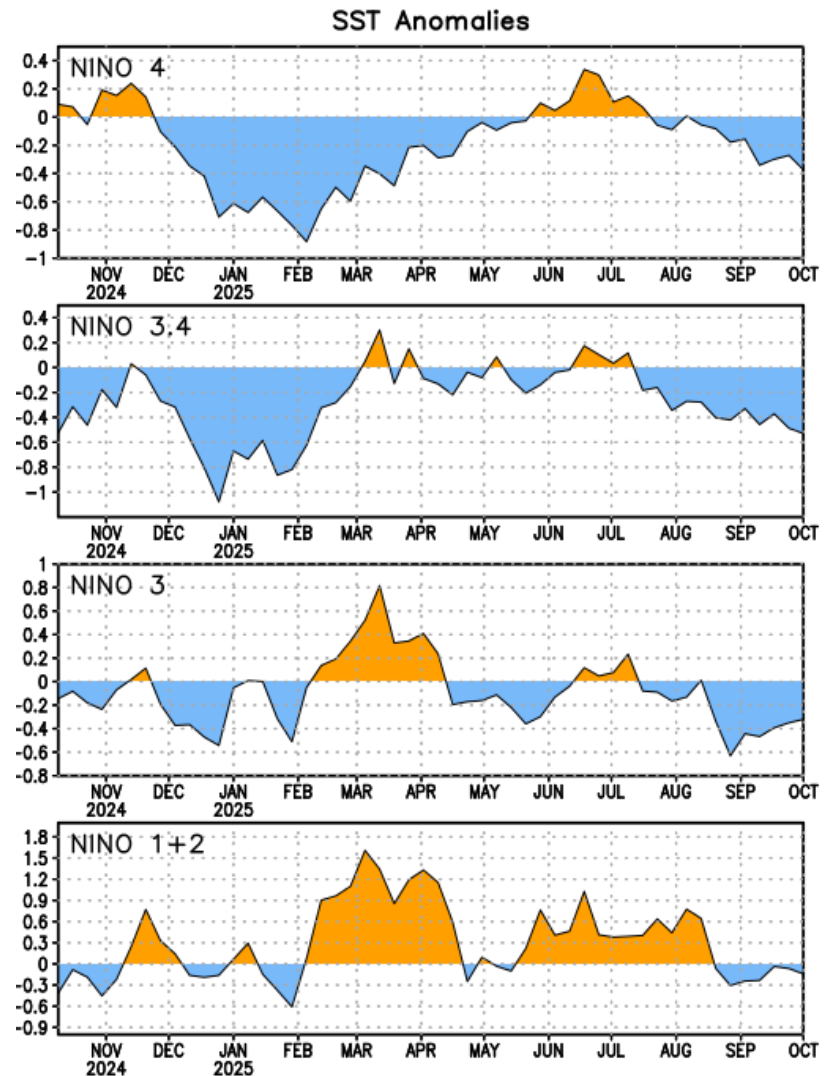
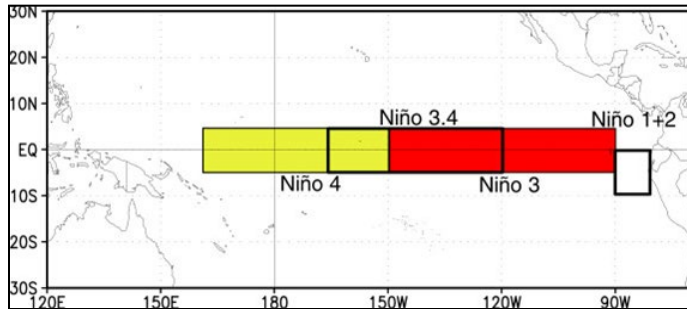
Atlantic Multidecadal Oscillation (AMO)

- Average annual inflow to Lake Okeechobee is nearly 50% greater during the warm phase compared to the cold phase of the AMO, easterly flow toward south Florida affected by phase
- The AMO is currently in the warm phase

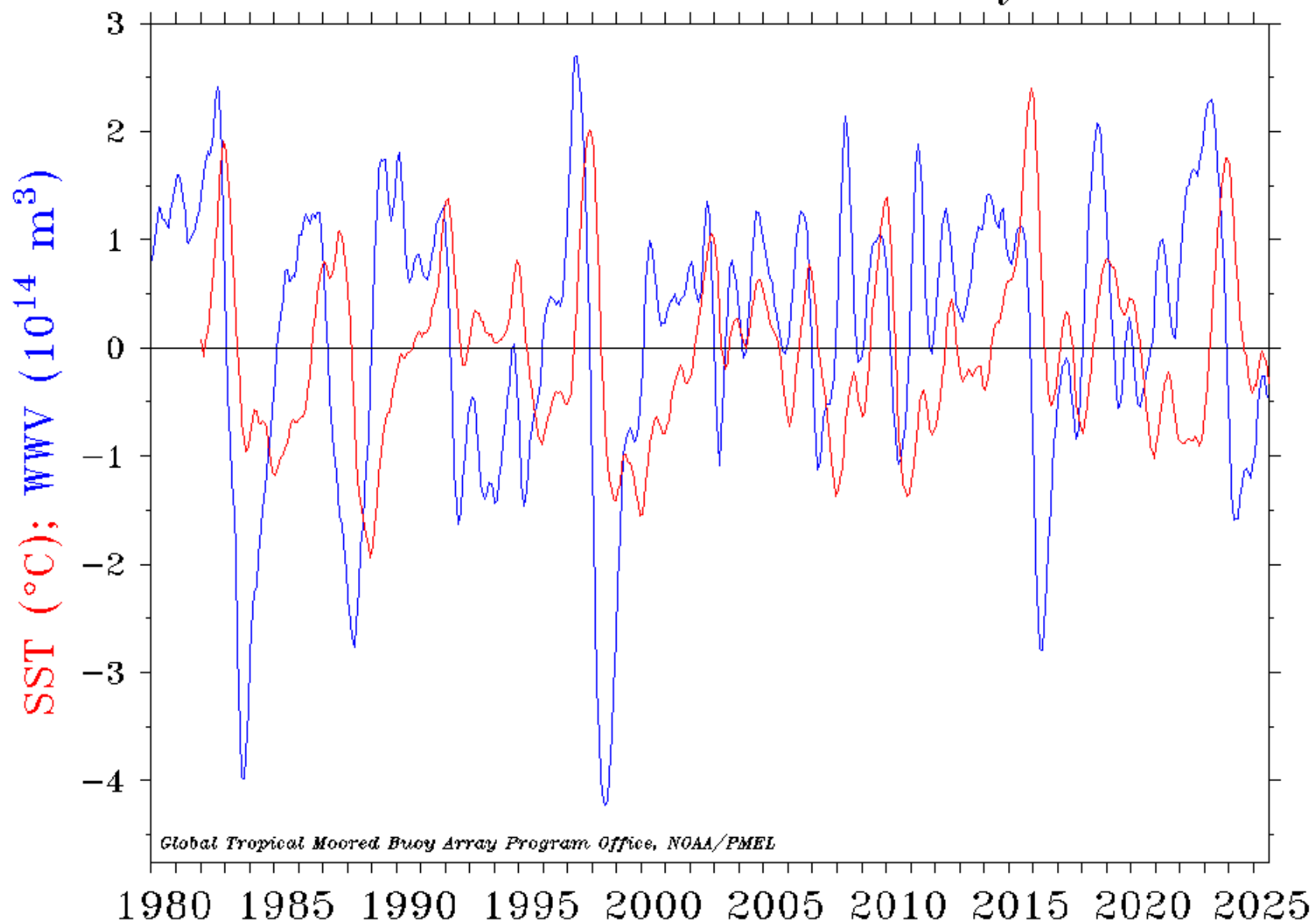
Niño Region SST Departures (°C) Recent Evolution

The latest weekly SST departures are:

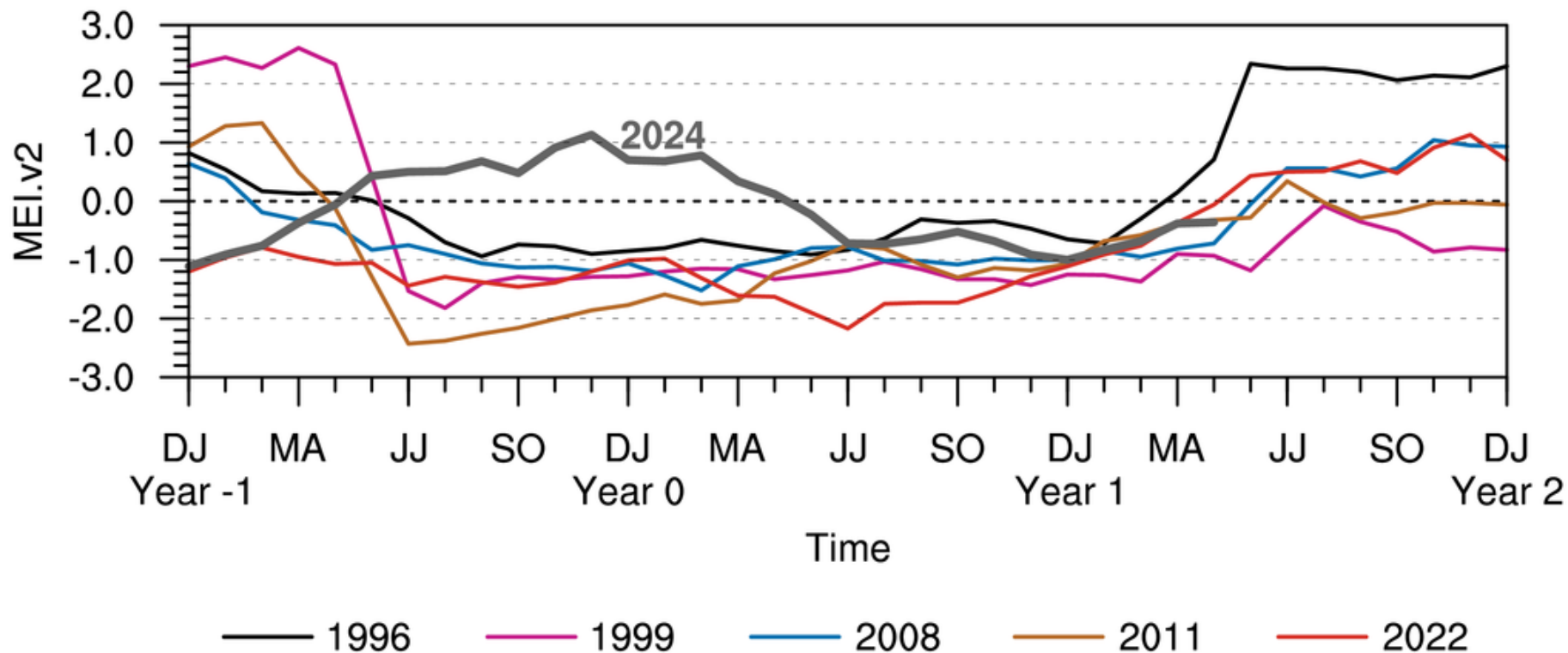
Niño 4	-0.4°C
Niño 3.4	-0.5°C
Niño 3	-0.3°C
Niño 1+2	-0.1°C



Warm Water Volume (5°N–5°S, 120°E–80°W) and NINO 3.4 SST Anomaly



MEI.v2 Evolution of Current ENSO Event in Historical Context



2025 Tropical Outlook Updates



**COLORADO STATE UNIVERSITY FORECAST OF ATLANTIC HURRICANE
ACTIVITY FROM OCTOBER 1–14, 2025 AND OUTLOOK FOR OCTOBER–
NOVEMBER CARIBBEAN ACCUMULATED CYCLONE ENERGY**

We favor above-normal activity for the two-week period (59% chance), with normal (40% chance) and below-normal (1% chance) less likely. We anticipate above-average October–November Caribbean Accumulated Cyclone Energy.

(as of 1 October 2025)

Table 1: ACE forecast definition and probabilistic forecast for TC activity for October 1–14, 2025.

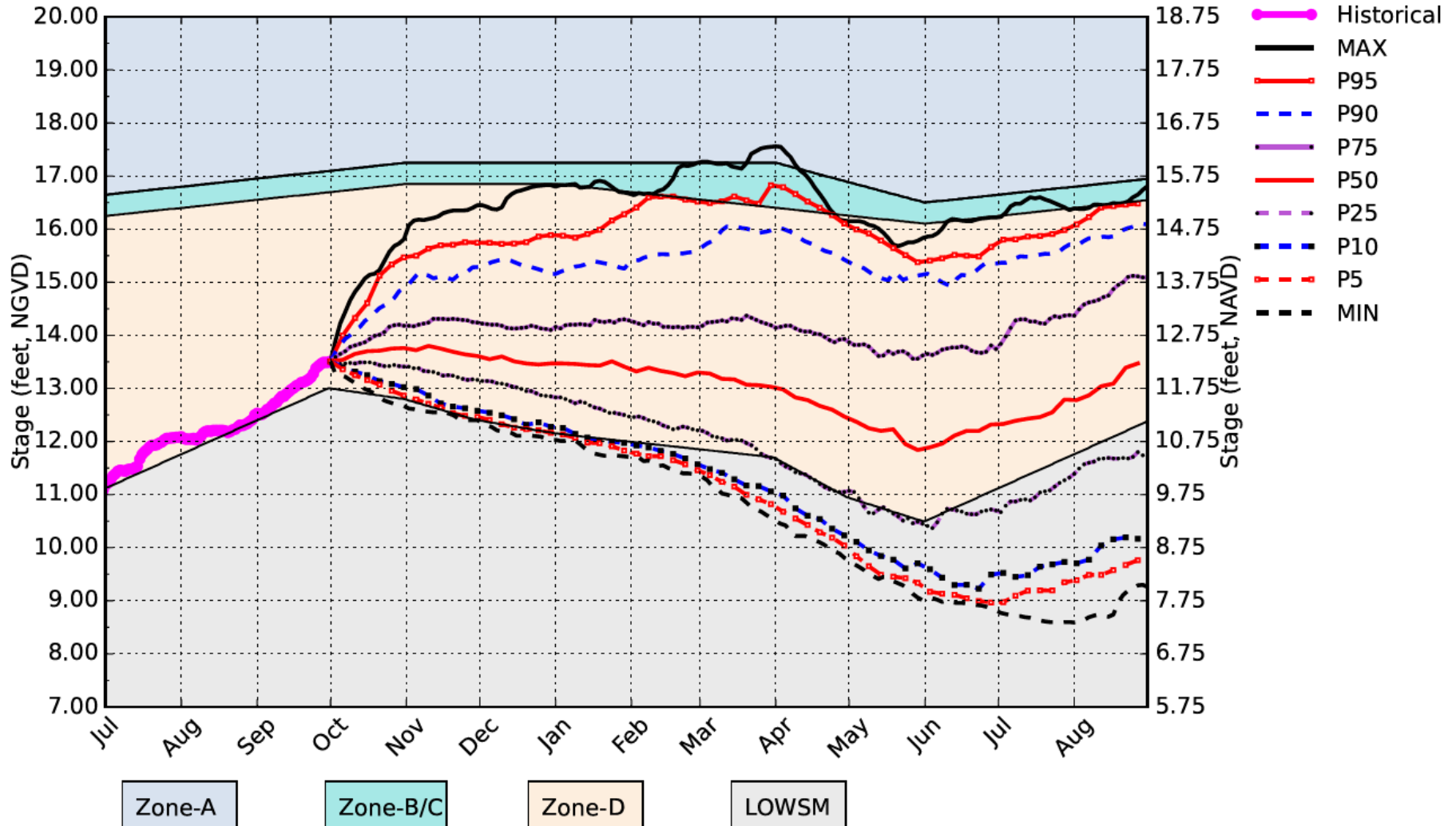
Parameter	Definition	Probability in Each Category
Above-Normal	Upper Tercile (>10 ACE)	59%
Normal	Middle Tercile (3–10 ACE)	40%
Below-Normal	Lower Tercile (<3 ACE)	1%

October 1, 2025 DPA Assumptions

- The October 1, 2025 Dynamic Position Analysis (DPA) simulation is based on historical climatic conditions spanning the period 1965-2016. This DPA posting is made with the South Florida Water Management Model (SFWMM) v7.3.4.
- The October 1, 2025 DPA resets the initial stages for Lake Okeechobee (LOK) and the Water Conservation Areas (WCAs) on September 1st of each year of the DPA simulation and conditions the simulation to real time data during September to achieve real time stages on October 1st for LOK and WCAs.
- The Lake Okeechobee operations follow the Lake Okeechobee System Operating Manual (LOSOM). Modeling assumptions are consistent with modeling performed for LOSOM Supplemental Environmental Impact Statement (SEIS).
- LOK Temporary Forward Pump operations will be in place, whenever necessary, to improve water supply deliveries from LOK under low LOK stages.
- STA surface area values are modified to reflect current flow ways under operation. STA depths are maintained to a minimum of 6 inches using Lake Okeechobee releases.
- Lake Okeechobee Water Shortage Management (LOWSM) is included in the simulation which reflects the currently approved 40E-21 and 40E-22 water shortage rules.

Lake Okeechobee SFWMM October 2025 Position Analysis

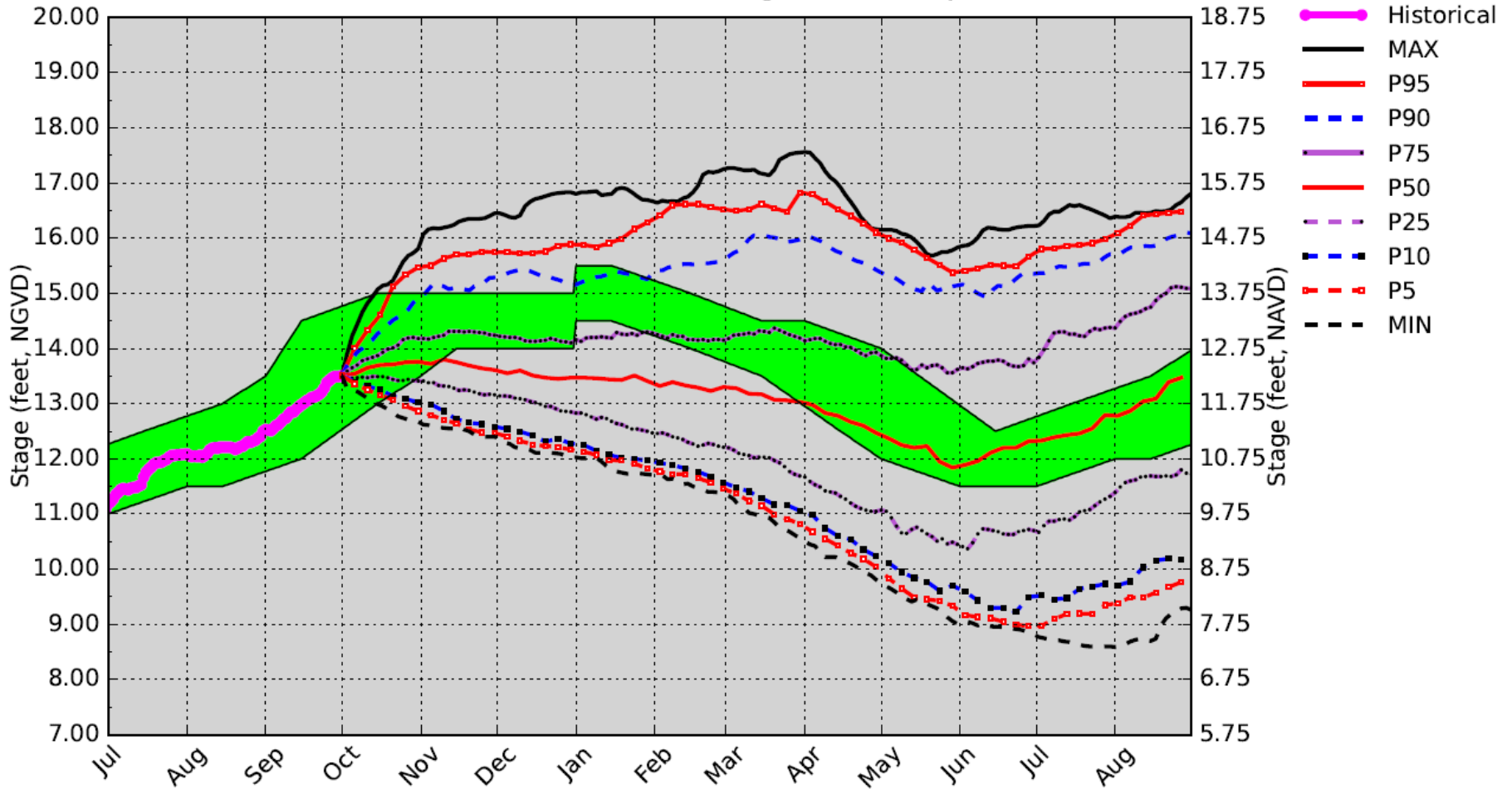
Percentiles PA



(See Assumptions on the Operational Planning Website)

Lake Okeechobee SFWMM October 2025 Position Analysis

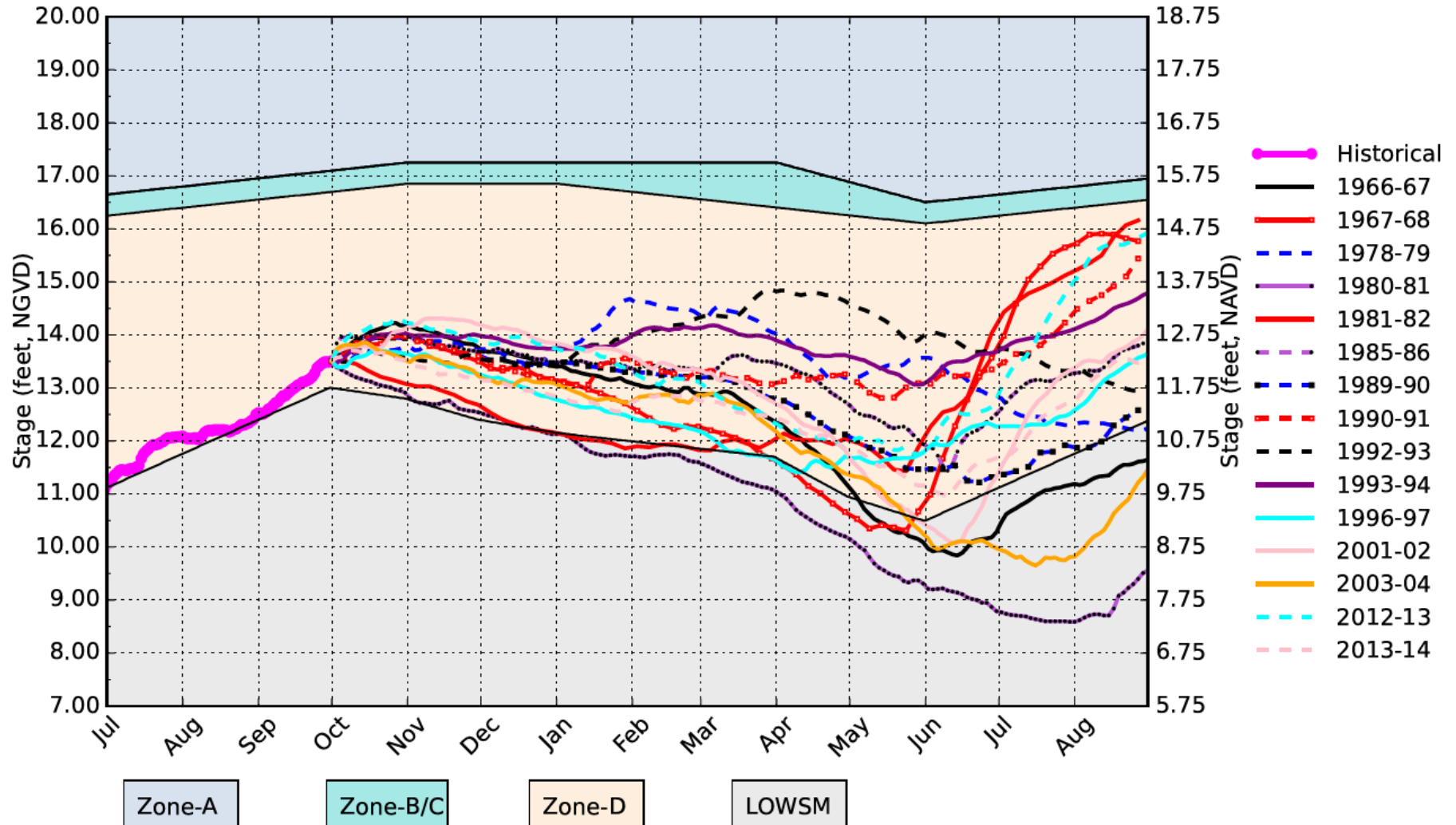
Percentiles PA with Ecological Envelopes



(See Assumptions on the Operational Planning Website)

Lake Okeechobee SFWMM October 2025 Position Analysis

All ENSO Neutral Years Plot PA

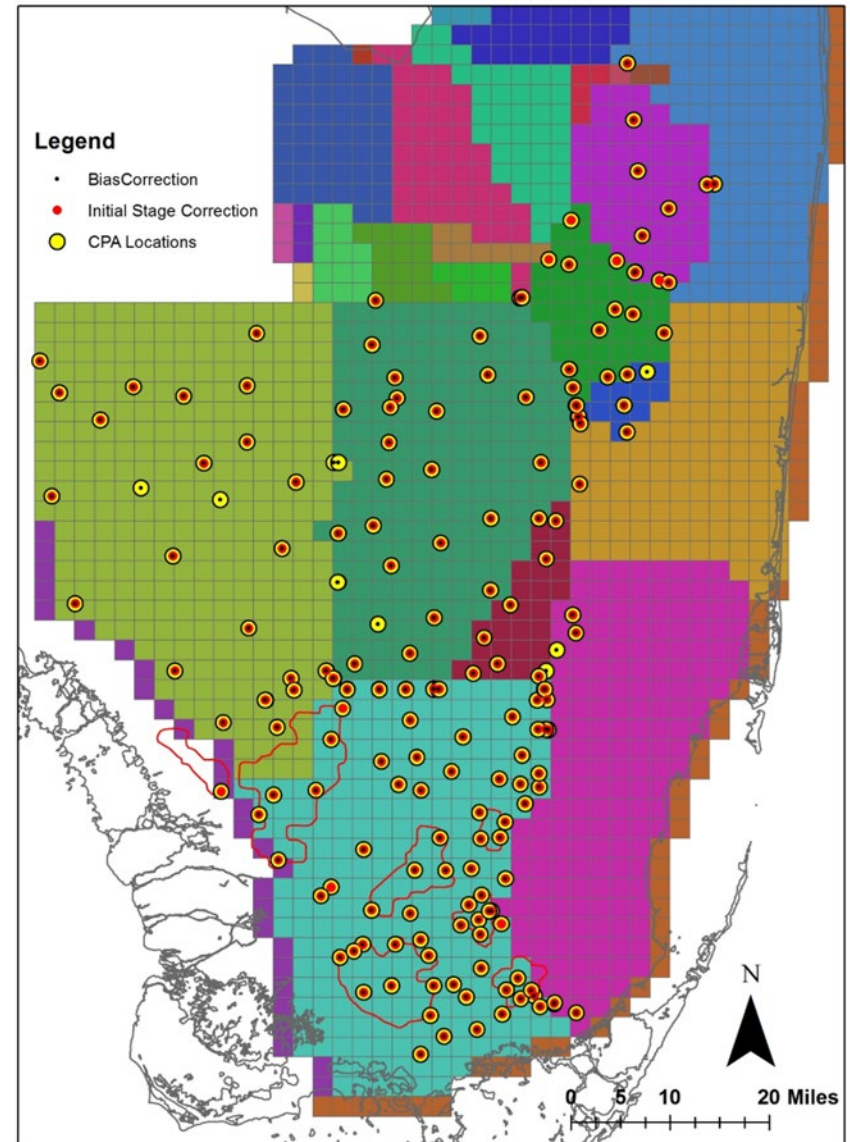


(See Assumptions on the Operational Planning Website)

Conditional Position Analysis Overview

- CPA is a stochastic framework that transforms stages obtained from Dynamic Position Analysis (DPA) based on forecasted rainfall conditions over the next twelve months (Ali, 2016).
- DPA stage outputs are used as inputs to CPA.
- CPA is implemented for Lake Okeechobee and 200+ locations in the Everglades.

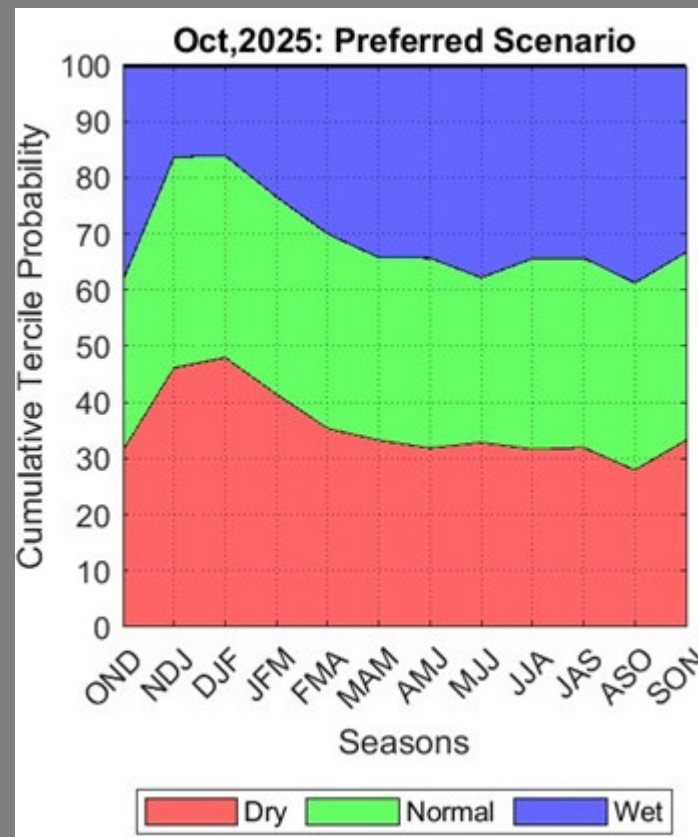
Conditional Position Analysis (CPA) Gage Locations



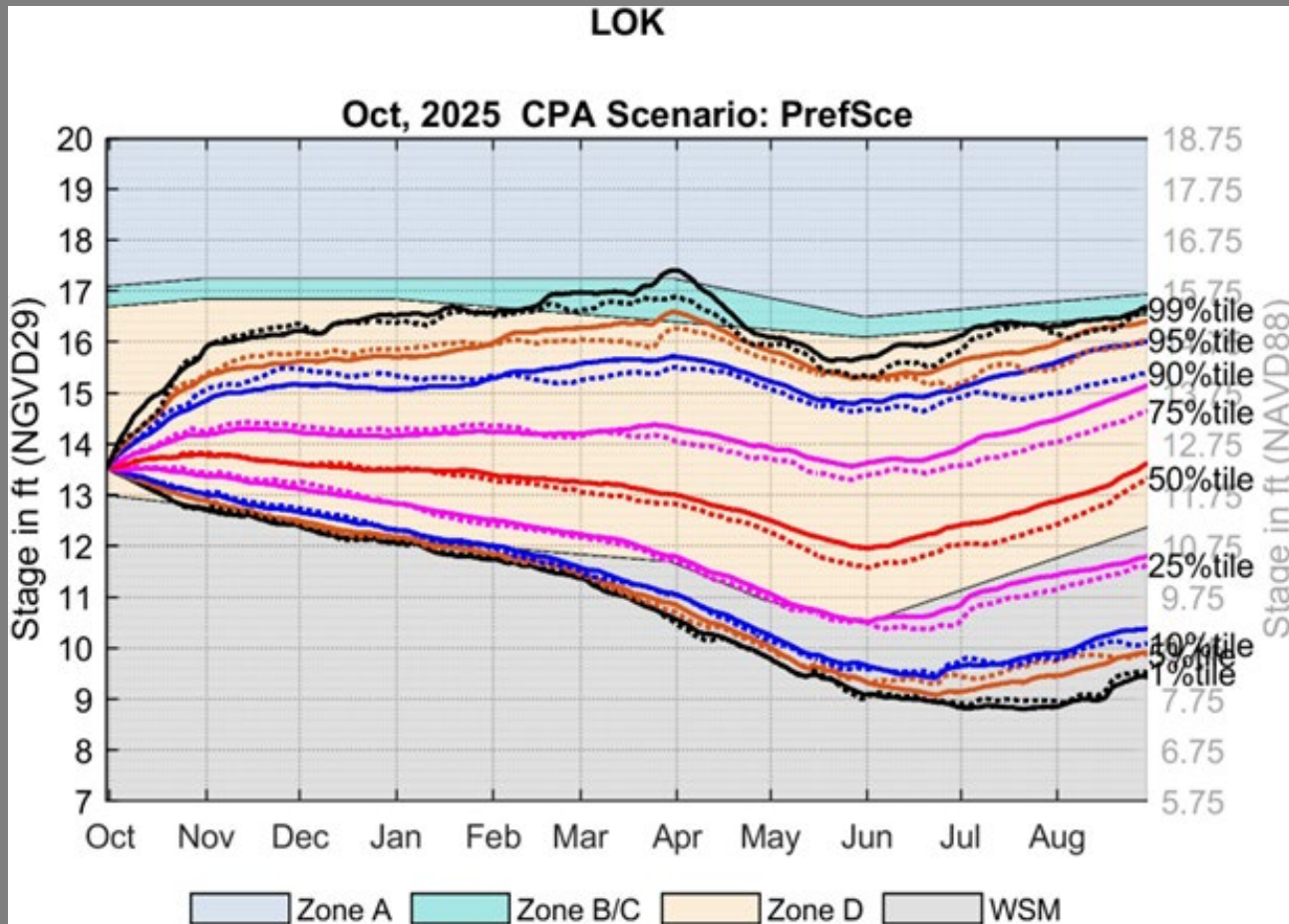
October 2025 CPA: Preferred Rainfall Scenario

Rainfall probabilities are calculated based on historical data and projected Niño-3.4 Index published by CPC. Preferred Scenario directly captures ENSO strength and is typically more aggressive in terms of shifts from Climatological probabilities compared to CPC.

https://www.cpc.ncep.noaa.gov/products/analysis_monitoring/enso_advisory/strengths/index.php



Lake Okeechobee – The CPA implementation indicates that most percentile lines shift downward by approximately 0.1 to 0.2 feet compared to the corresponding DPA percentile lines at the beginning of the wet season in May 2026. Under the Preferred Scenario (PrefSce), the median trace projects a stage of ~12.3 feet NGVD29 (11.05 feet NAVD88). Additionally, the 25th and 75th percentiles project stages of ~11.0 feet NGVD29 (9.75 feet NAVD88) and ~13.7 feet NGVD29 (12.45 feet NAVD88), respectively.



Solid lines → Climatological Scenario/DPA

Dotted lines → CPA Scenario: PrefSce