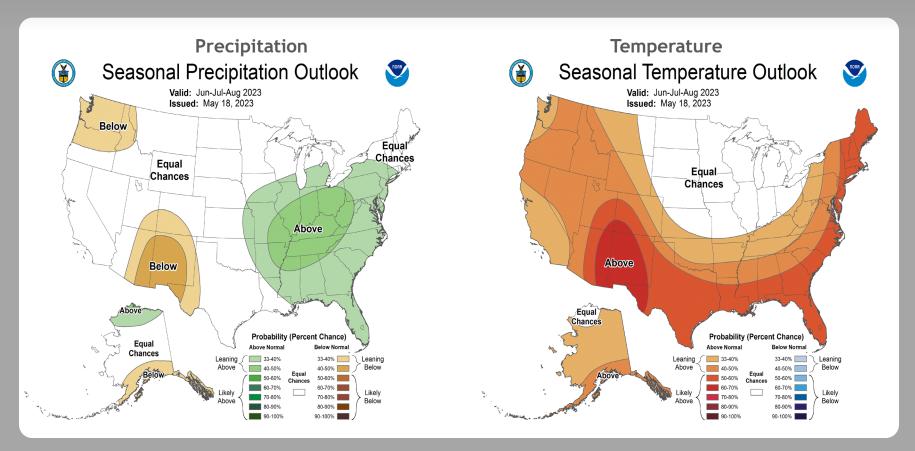
Extended Hydrologic Outlook June 8, 2023

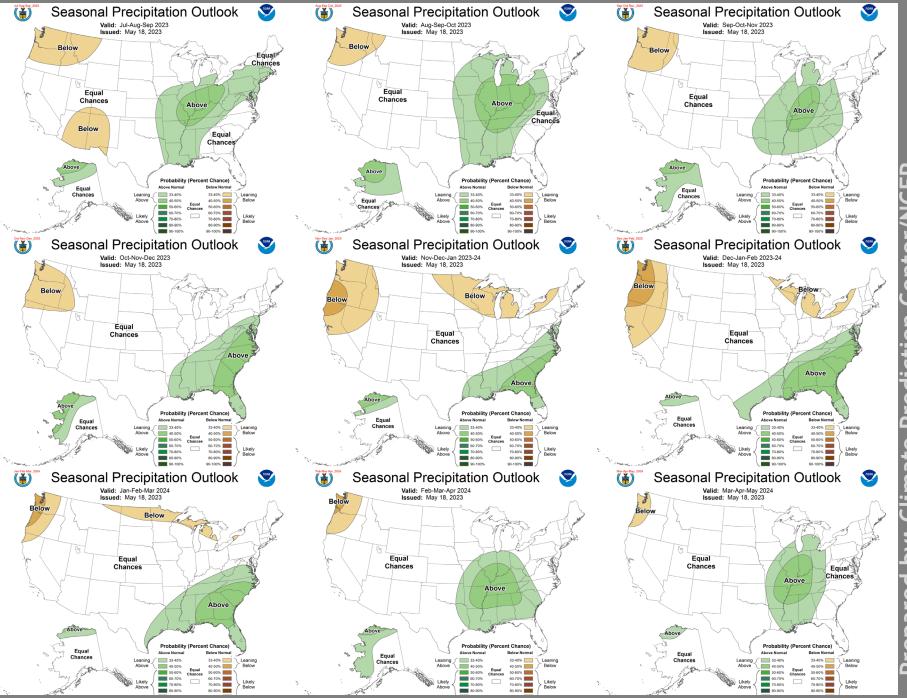
- The Climate Prediction Center (CPC) is forecasting <u>above</u> <u>normal</u> rainfall for June through August.
- El Niño conditions are present and are expected to gradually strengthen into the Northern Hemisphere winter 2023-24.
- Atlantic Multidecadal Oscillation (AMO) is <u>currently in the</u> 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

June - August 2023

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

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

Niño Region SST Departures (°C) Recent Evolution

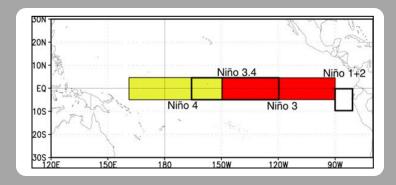
The latest weekly SST departures are:

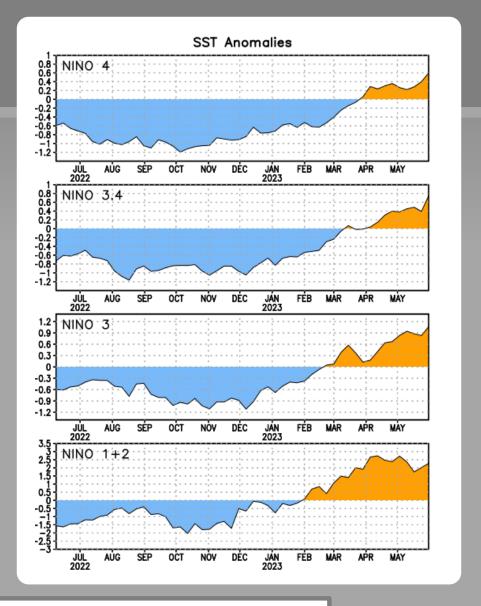
 Niño 4
 0.6°C

 Niño 3.4
 0.8°C

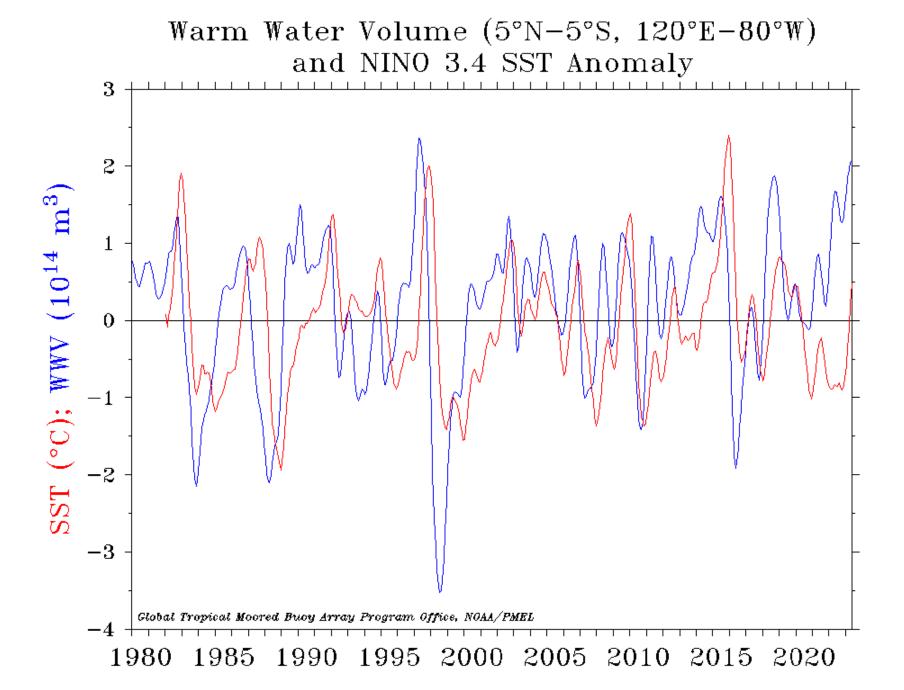
 Niño 3
 1.1°C

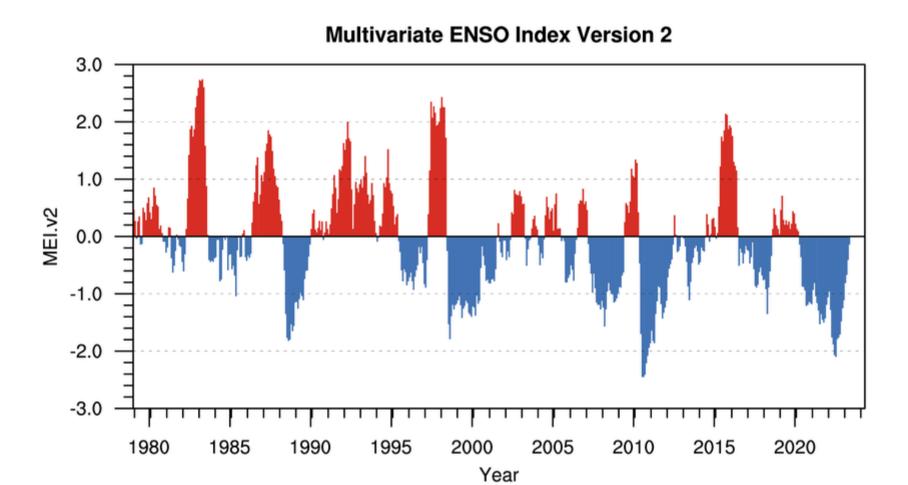
 Niño 1+2
 2.3°C





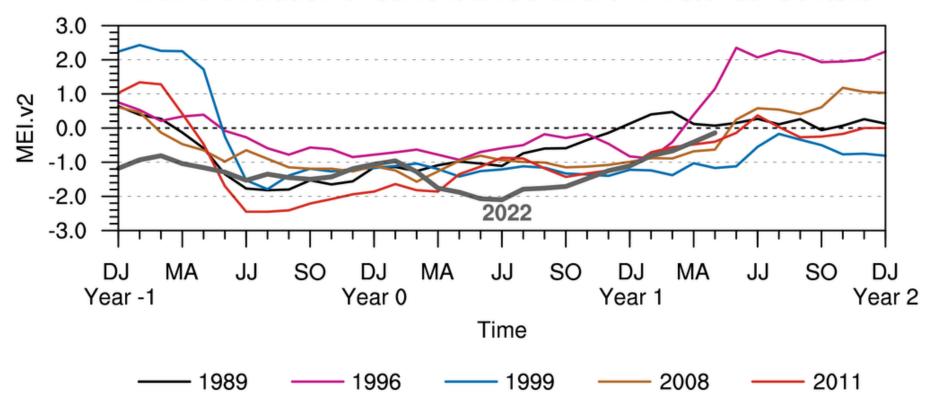
This weekly sea surface temperature data is based on OISSTv2.1 (Huang et al., 2021).

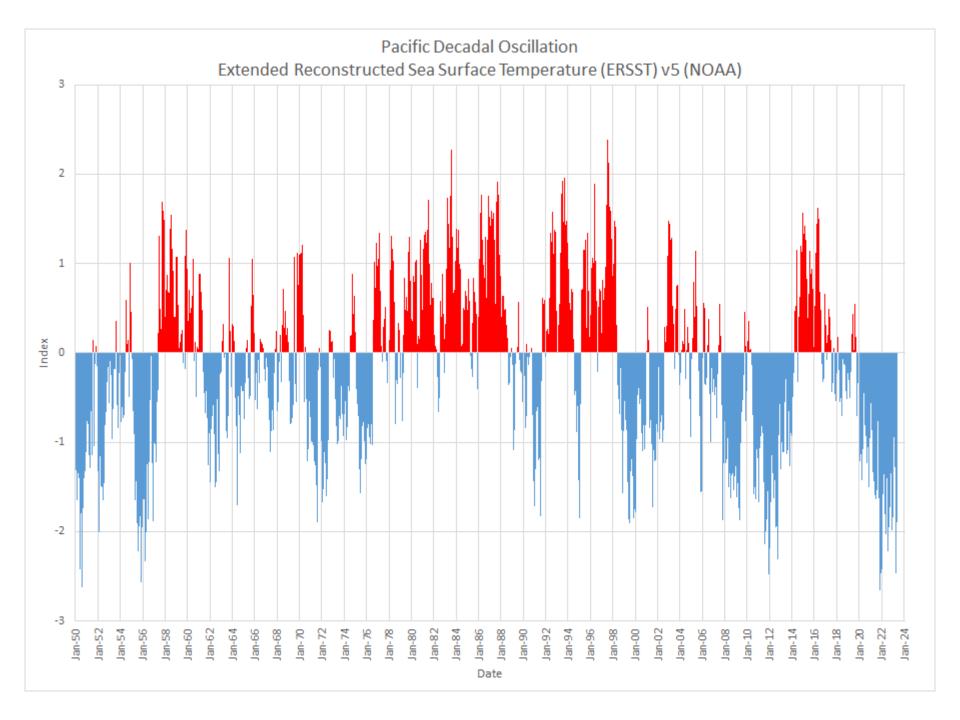


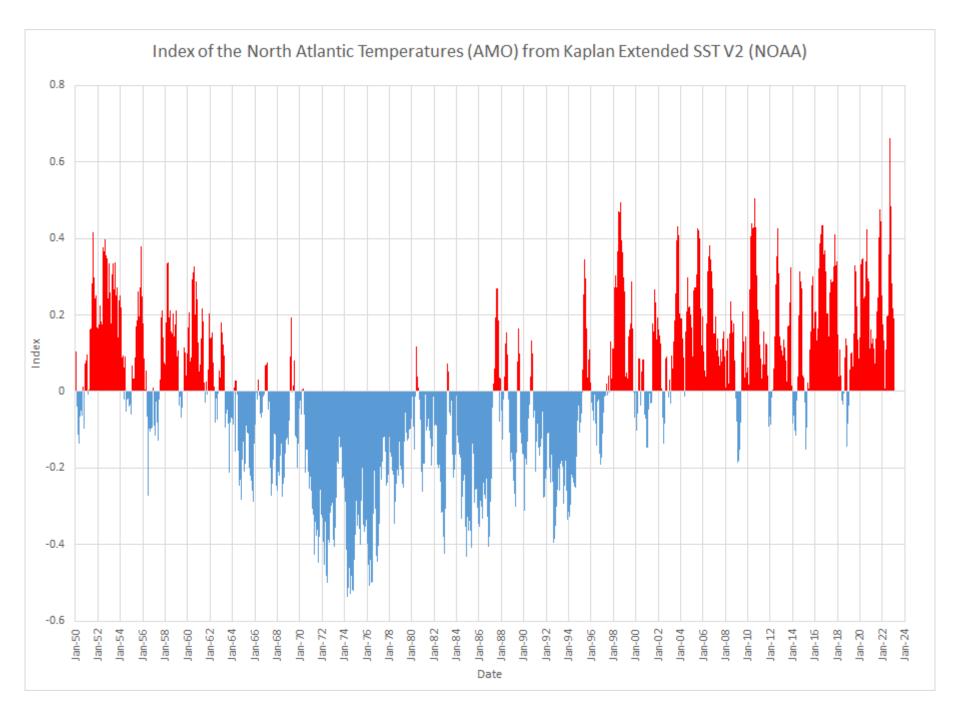


Prepared by: NOAA Physical Sciences Laboratory

MEI.v2 Evolution of Current ENSO Event in Historical Context





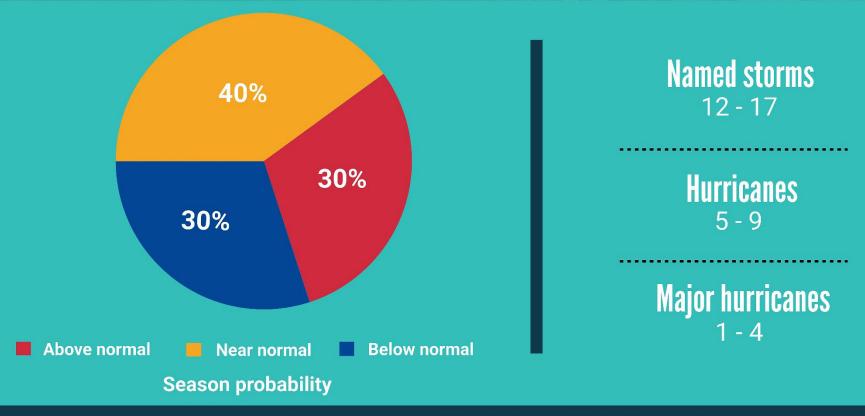


2023 Tropical Outlook





2023 Atlantic Hurricane Season Outlook



Be prepared: Visit hurricanes.gov and follow @NWS and @NHC_Atlantic on Twitter.

May 2023

ATLANTIC BASIN SEASONAL HURRICANE FORECAST FOR 2023

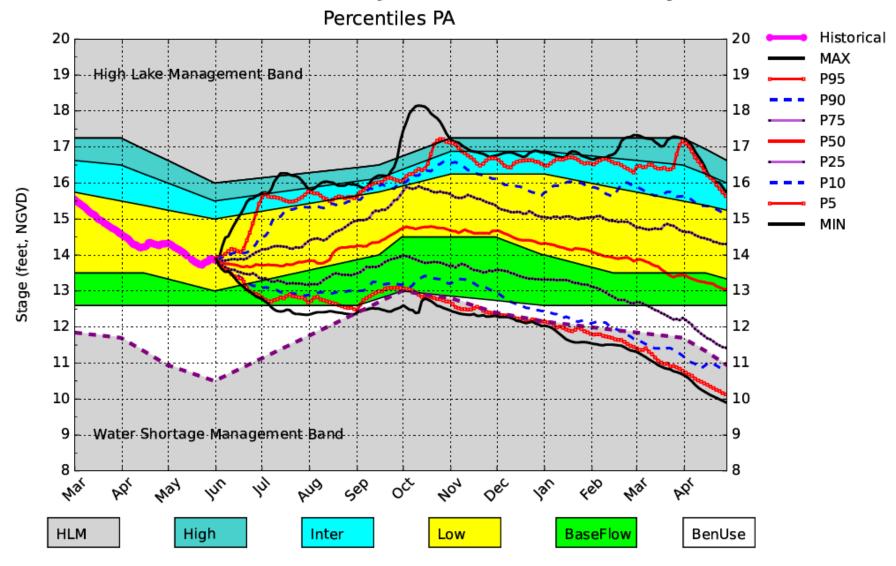
Forecast Parameter and 1991-2020 Average (in parentheses)	Issue Date 13 April 2023	Issue Date 1 June 2023	Observed Activity Through May 31 2023	Total Seasonal Forecast (Includes Unnamed Storm*)
Named Storms (14.4)	13	14	1	15
Named Storm Days (69.4)	55	57.75	2.25	60
Hurricanes (7.2)	6	7	0	7
Hurricane Days (27.0)	25	30	0	30
Major Hurricanes (3.2)	2	3	0	3
Major Hurricane Days (7.4)	5	7	0	7
Accumulated Cyclone Energy Index (123)	100	123	2	125
ACE West of 60°W (73)	55	68	2	70
Net Tropical Cyclone Activity (135%)	105	132	3	135

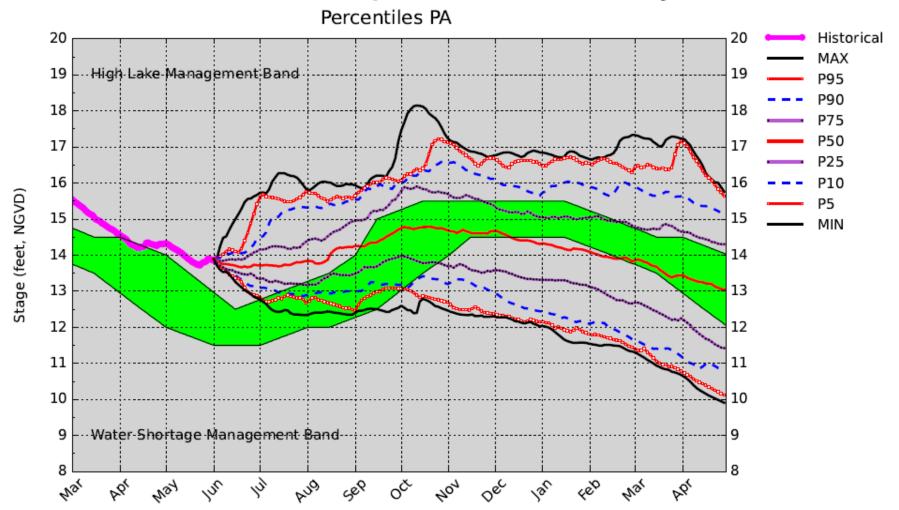
- Slightly below-average activity
- Considerable uncertainty as to how strong an El Niño would be if it develops
- Sea surface temperatures in the eastern and central Atlantic are much warmer than normal
- Larger-than-normal uncertainty exists with this outlook

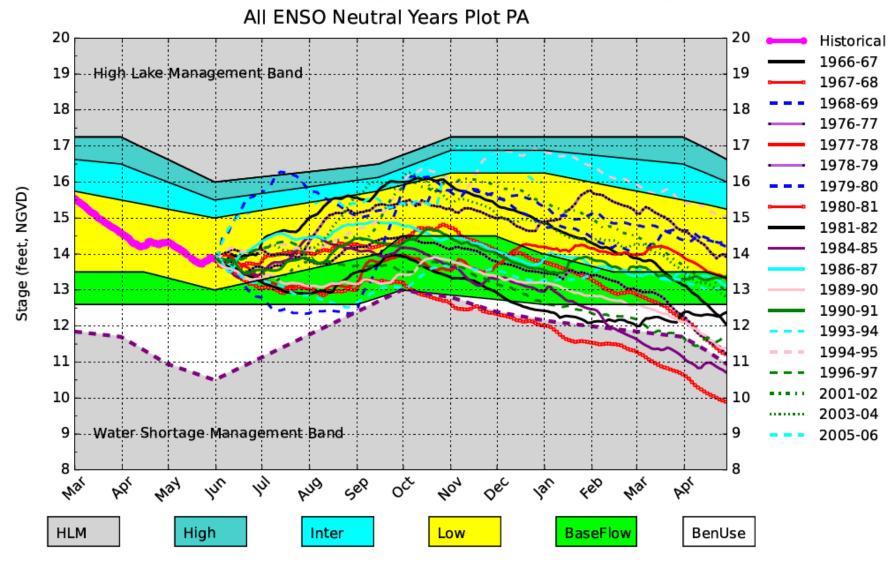
Source: Colorado State University (Tropical Meteorology Project)

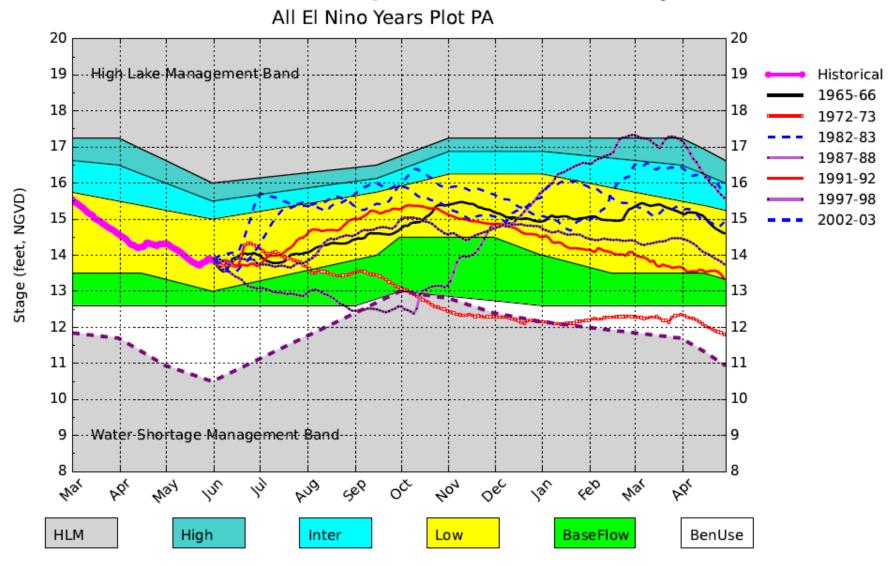
June DPA Assumptions

- The June 1, 2022 Dynamic Position Analysis (DPA) simulation is based on historical climatic conditions spanning the period 1965-2005. This DPA posting is made with the South Florida Water Management Model (SFWMM) v6.7.4 (Tamiami Trail) which includes the following improvement(s):
 - Improvements to include the Combined Operational Plan (COP)
- The June 1, 2022 DPA resets the initial stages for Lake Okeechobee (LOK) and the Water Conservation Areas (WCAs) on May 1st of each year of the DPA simulation and conditions the simulation to real time data during April to achieve real time stages on June 1st for LOK and WCAs.
- The Lake Okeechobee operations follow the Lake Okeechobee Regulation Schedule (LORS2008). Modeling assumptions are consistent with modeling performed for LORS2008 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 flowways under operation.
 STA depths are maintained to a minimum of 6 inches using Lake Okeechobee releases.

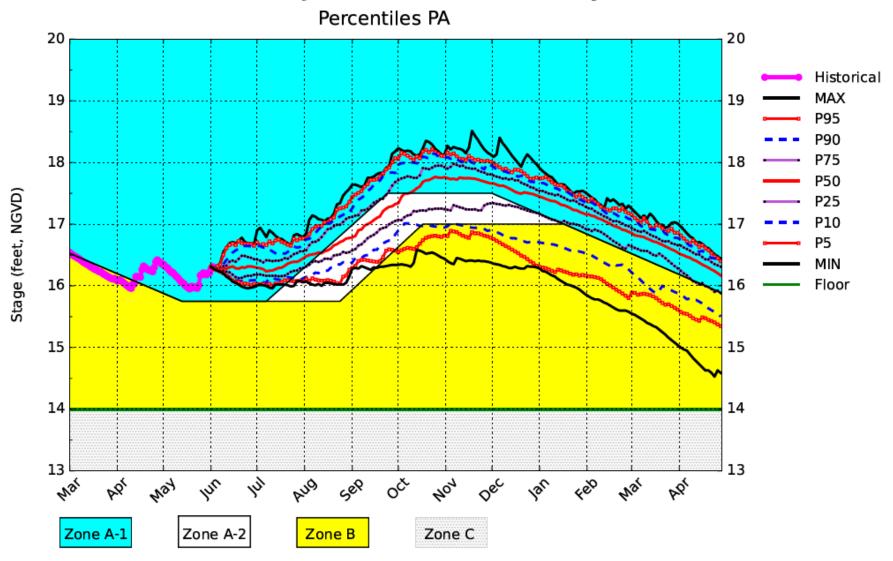




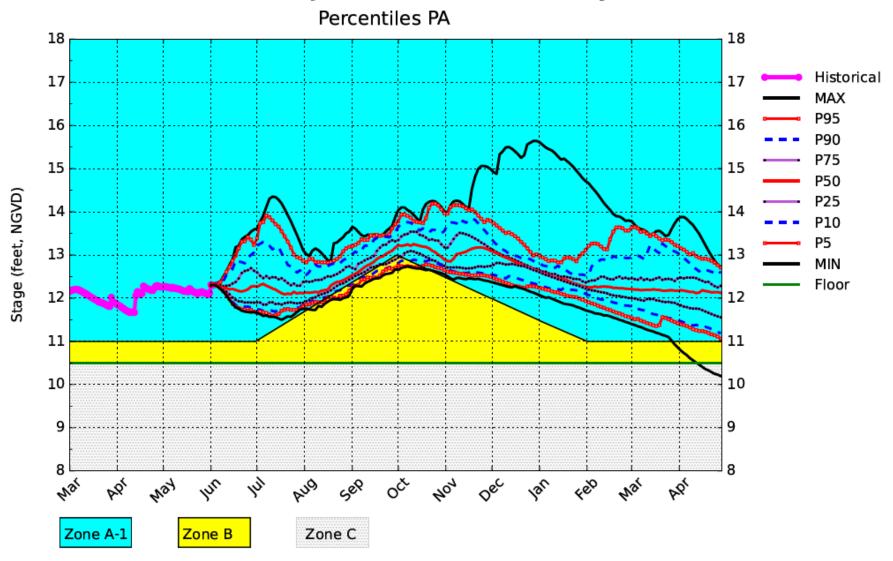




WCA1 SFWMM June 2023 Position Analysis



WCA2A SFWMM June 2023 Position Analysis



WCA3A SFWMM June 2023 Position Analysis

