The Climate Prediction Center (CPC) is forecasting above normal rainfall for August through October.

La Niña is present and is favored to continue through 2022 with the odds for La Niña decreasing into the late summer (60% chance in July-September 2022) before increasing through the fall and early winter 2022 (62-66% chance).

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.
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 (ºC) Recent Evolution

The latest weekly SST departures are:

- Niño 4: -1.0ºC
- Niño 3.4: -1.0ºC
- Niño 3: -0.5ºC
- Niño 1+2: -0.6ºC

This weekly sea surface temperature data is based on OISSTv2.1 (Huang et al., 2021).
Warm Water Volume (5°N–5°S, 120°E–80°W) and NINO 3.4 SST Anomaly

Global Tropical Moored Buoy Array Program Office, NOAA/PMEL
2022 Tropical Outlook
2022 Atlantic Hurricane Season Outlook
AUGUST 4 UPDATE

Season probability:
- Above-normal: 60%
- Near-normal: 30%
- Below-normal: 10%

Expected counts:
- Named storms: 14-20
- Hurricanes: 6-10
- Major hurricanes: 3-5

Be prepared: Visit hurricanes.gov and follow @NWS and @NHC_Atlantic on Twitter.
Anticipate above-average activity
La Niña to persist throughout the remainder of the hurricane season
Sea surface temperatures across most of the tropical Atlantic are slightly warmer than normal

*Total forecast includes Alex, Bonnie and Colin which have formed in the Atlantic as of August 3rd.
August DPA Assumptions

• The August 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 August 1, 2022 DPA resets the initial stages for Lake Okeechobee (LOK) and the Water Conservation Areas (WCAs) on July 1\textsuperscript{st} of each year of the DPA simulation and conditions the simulation to real time data during July to achieve real time stages on August 1\textsuperscript{st} 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.
Lake Okeechobee SFWMM August 2022 Position Analysis

Percentiles PA_DPA6

High Lake Management Band

Water Shortage Management Band

(See assumptions on the Position Analysis Results website)
Lake Okeechobee SFWMM August 2022 Position Analysis

All La Nina Years Plot PA_DPA7

High Lake Management Band

Water Shortage Management Band

Stage (feet, NGVD)

May, Jun, Jul, Aug, Sep, Oct, Nov, Dec, Jan, Feb, Mar, Apr, May, Jun

HLM, High, Inter, Low, BasFlo, BenUse

(See assumptions on the Position Analysis Results website)
WCA1 SFWMM August 2022 Position Analysis

Percentiles PA_DPA6

Stage (feet, NGVD)

(See assumptions on the Position Analysis Results website)

Mon Aug 8 22:21:16 2022
WCA2A SFWMM August 2022 Position Analysis

Percentiles PA_DPA6

(See assumptions on the Position Analysis Results website)
WCA3A SFWMM August 2022 Position Analysis

Percentiles PA_DPA6

Stage (feet, NGVD)

Historical  MAX  P95  P90  P90  P75  P50  P25  P10  P5  MIN  Floor

(See assumptions on the Position Analysis Results website)