

Extended Hydrologic Outlook

March 7, 2023

- The Climate Prediction Center (CPC) is forecasting below normal rainfall for March through May.
- La Niña is present. ENSO-neutral conditions are expected to begin within the next couple of months and persist through spring and early summer.
- 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

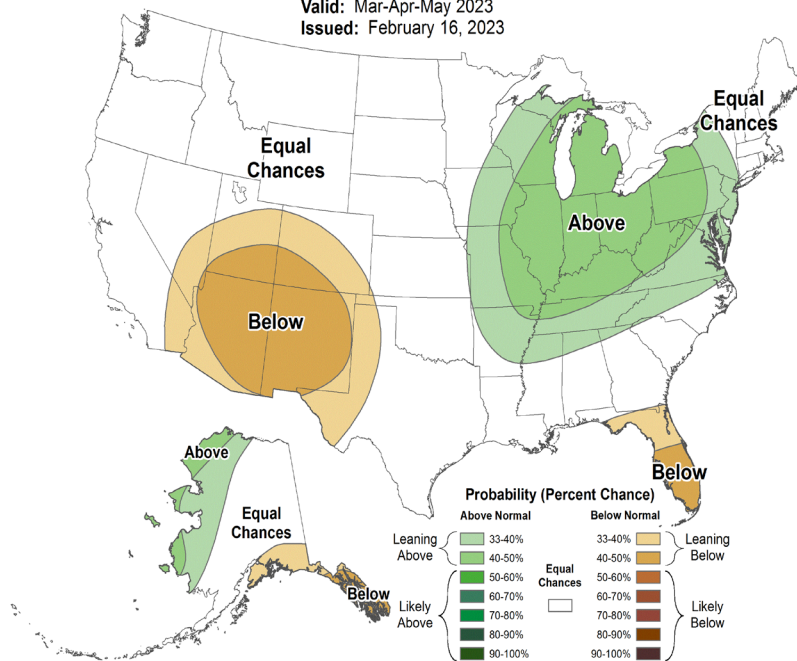
March - May 2023

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

Precipitation

Seasonal Precipitation Outlook

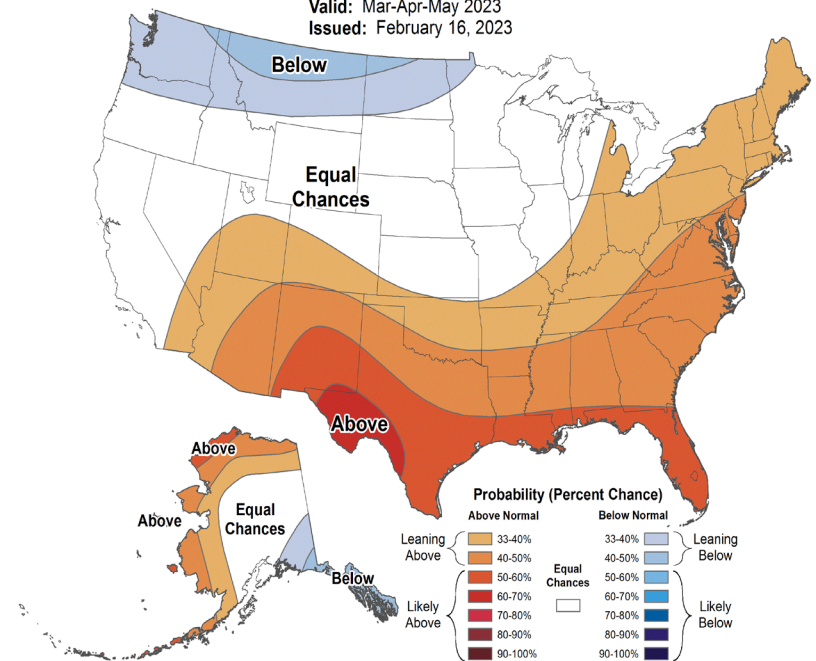
Valid: Mar-Apr-May 2023
Issued: February 16, 2023

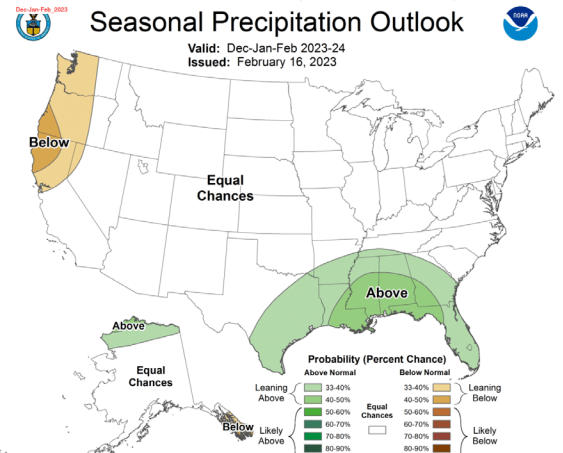
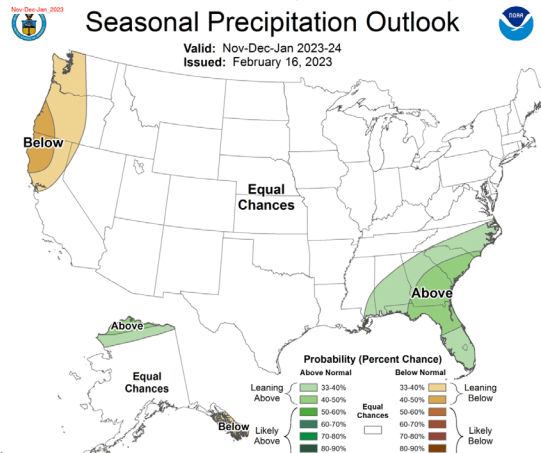
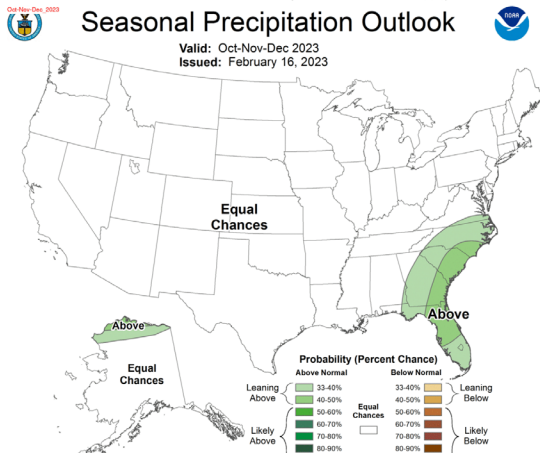
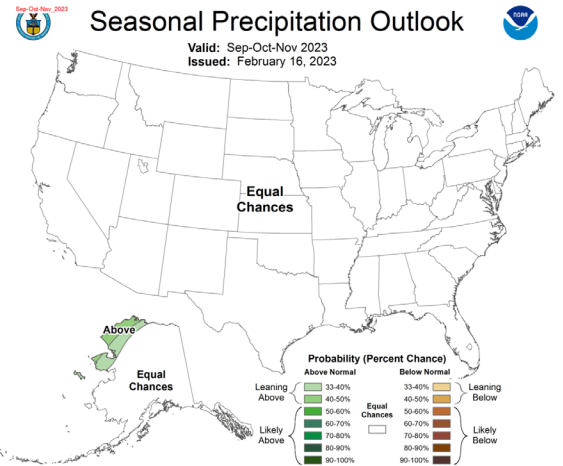
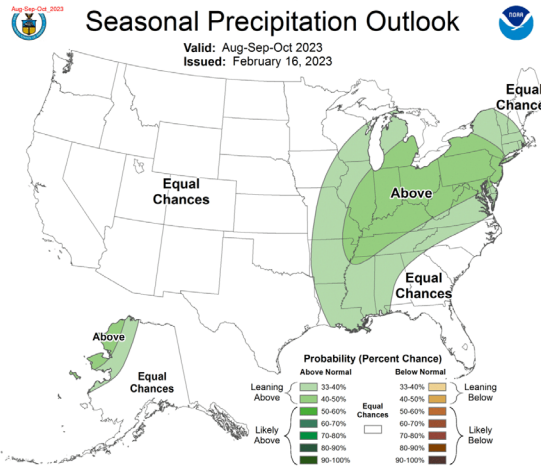
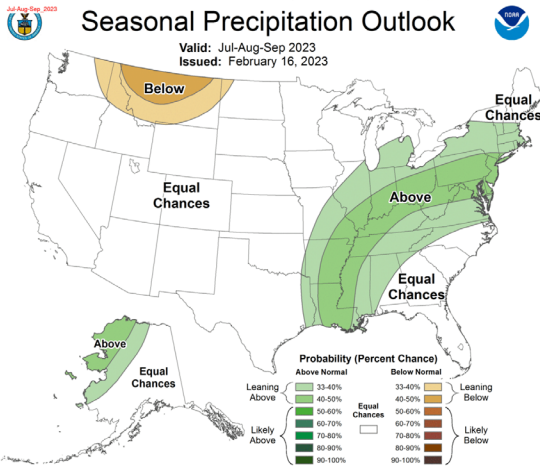
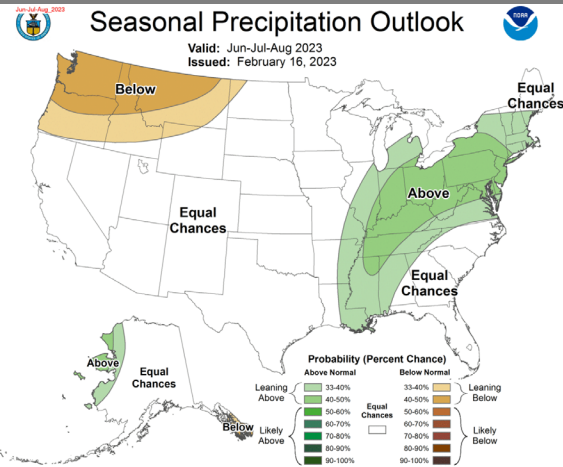
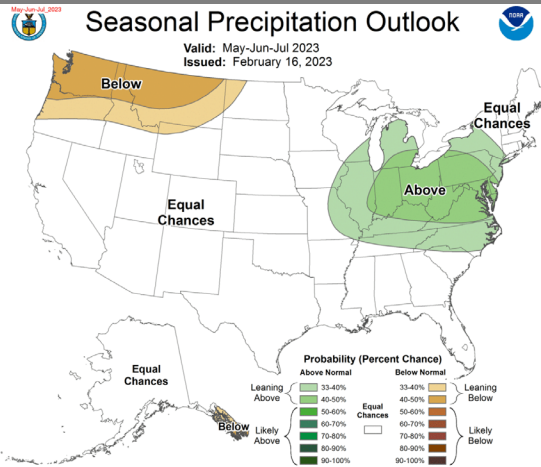
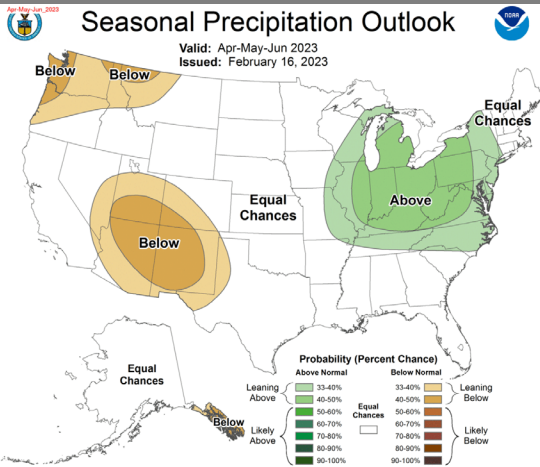


Temperature

Seasonal Temperature Outlook

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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

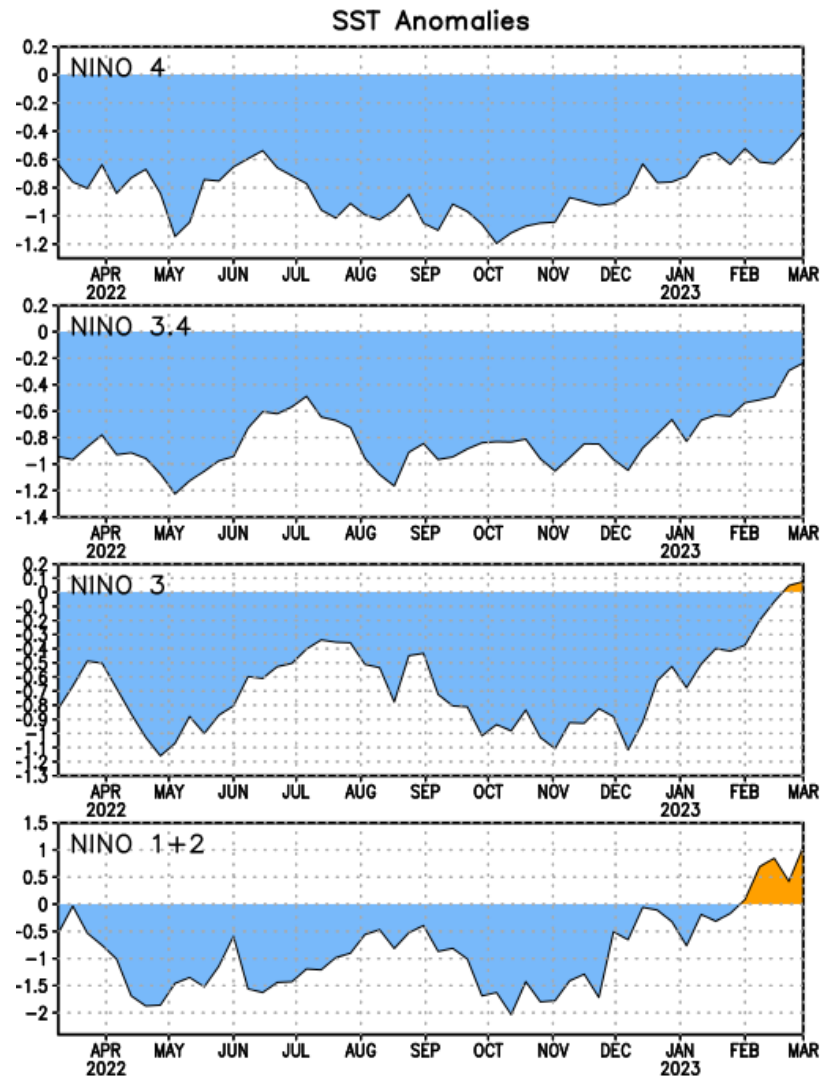
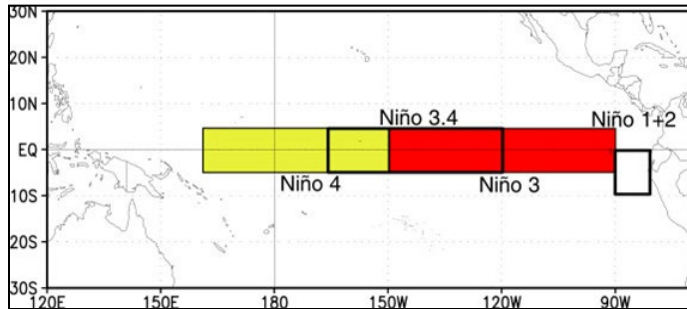
Atlantic Multidecadal Oscillation (AMO)

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

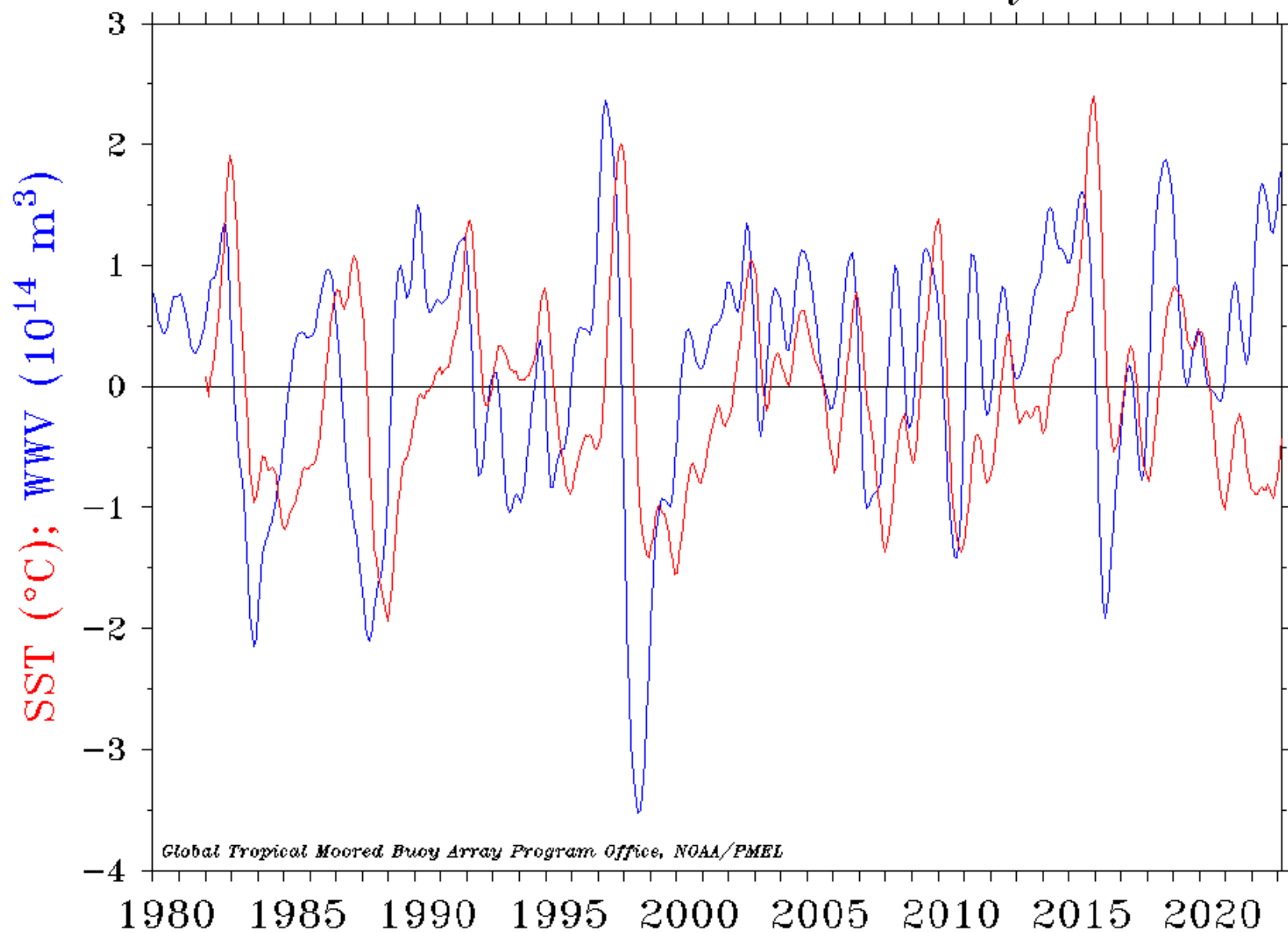
The latest weekly SST departures are:

Niño 4	-0.4°C
Niño 3.4	-0.2°C
Niño 3	0.1°C
Niño 1+2	1.1°C

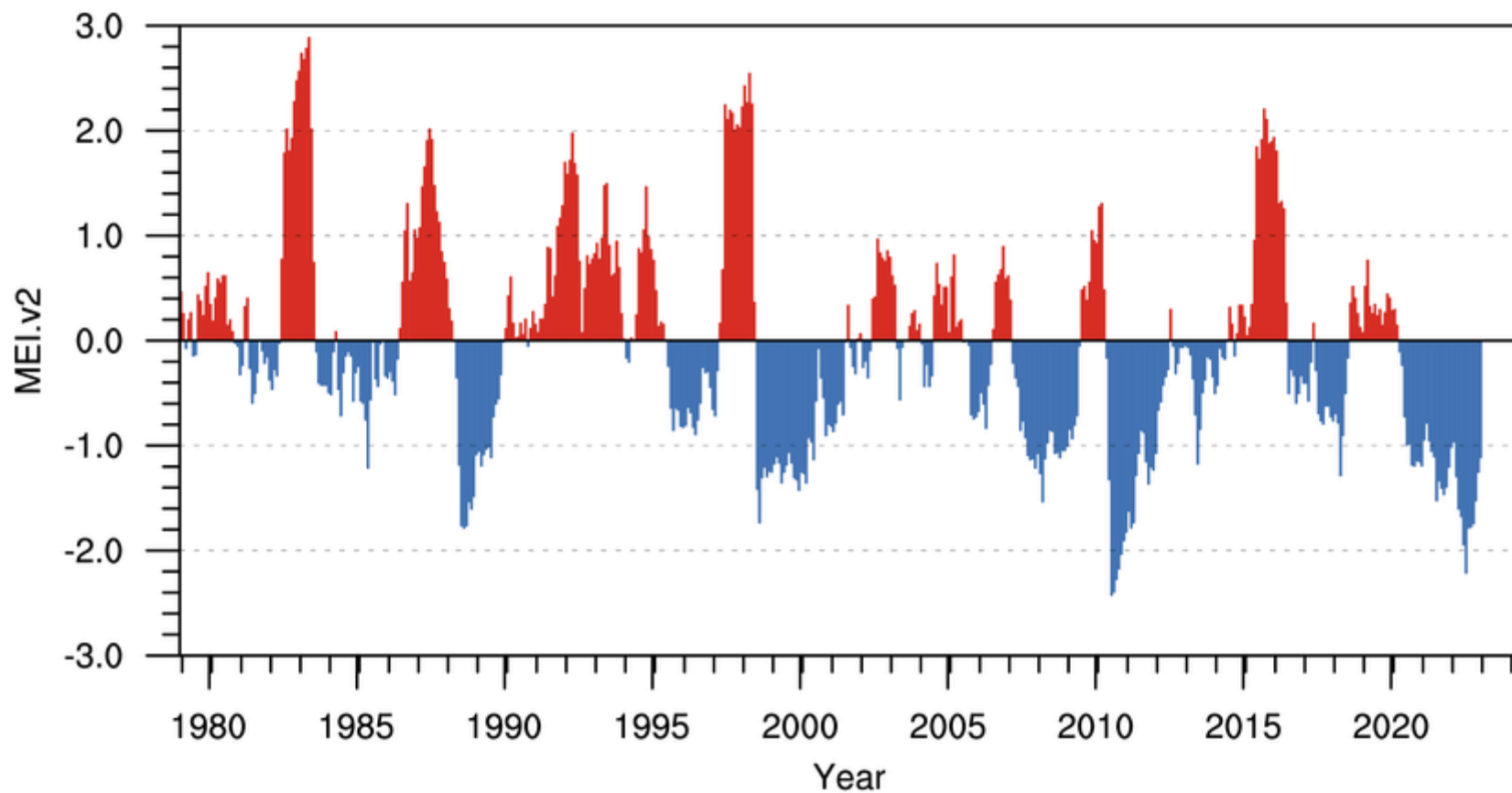


This weekly sea surface temperature data is based on OISSTv2.1 (Huang et al., 2021).

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

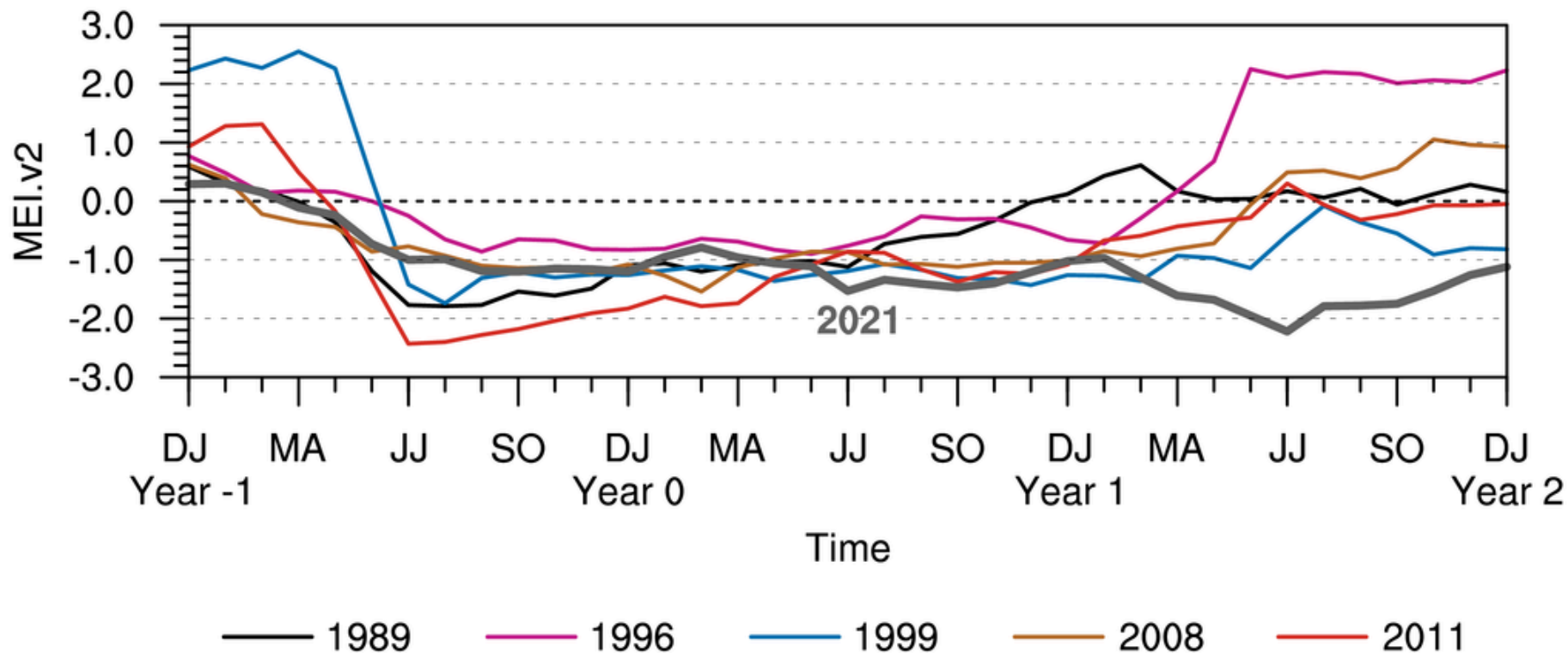


Multivariate ENSO Index Version 2

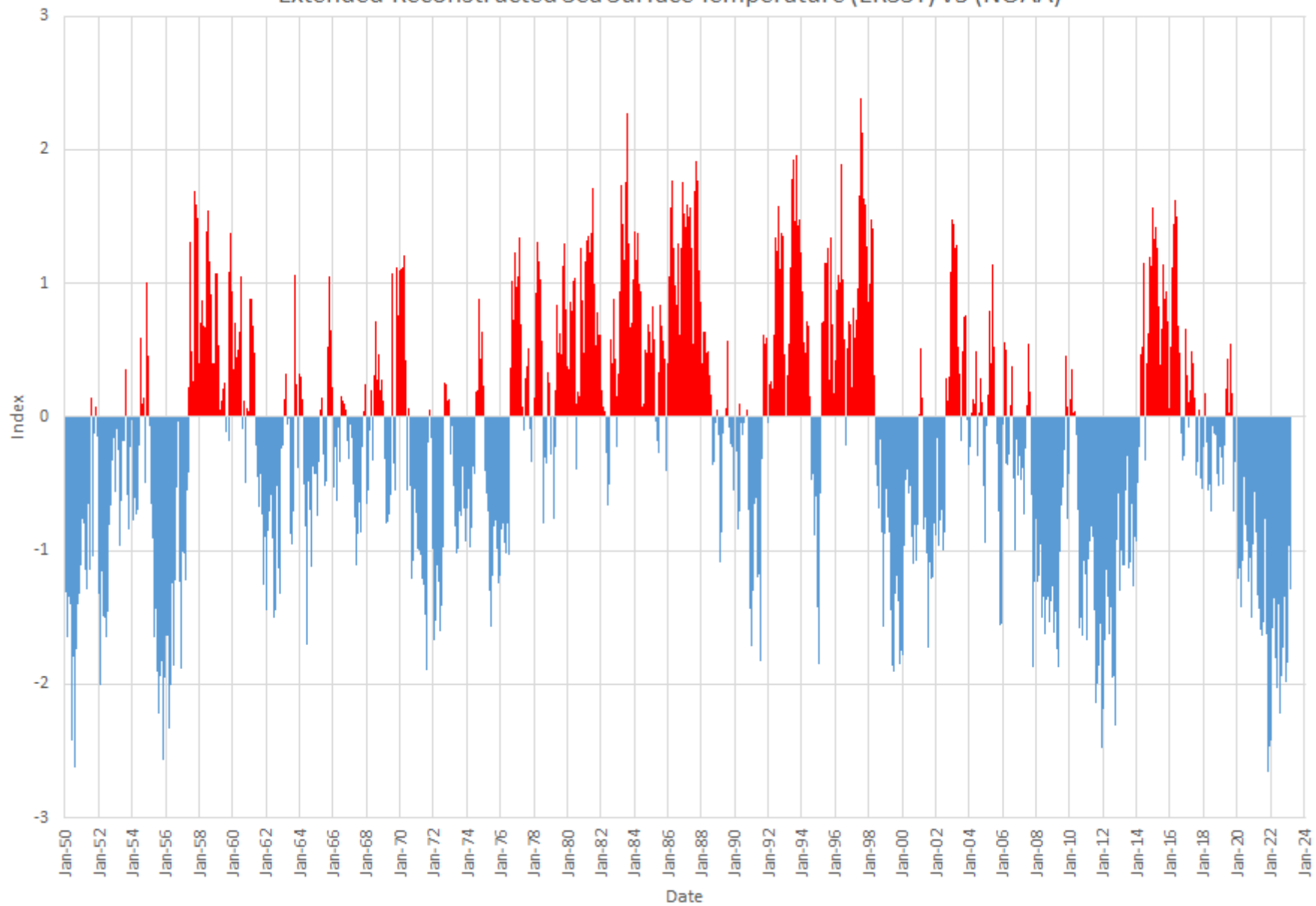


Prepared by: NOAA Physical Sciences Laboratory

MEI.v2 Evolution of Current ENSO Event in Historical Context



Pacific Decadal Oscillation
Extended Reconstructed Sea Surface Temperature (ERSST) v5 (NOAA)



Index of the North Atlantic Temperatures (AMO) from Kaplan Extended SST V2 (NOAA)

