NOAA Climate Science and Services Monthly Climate Update



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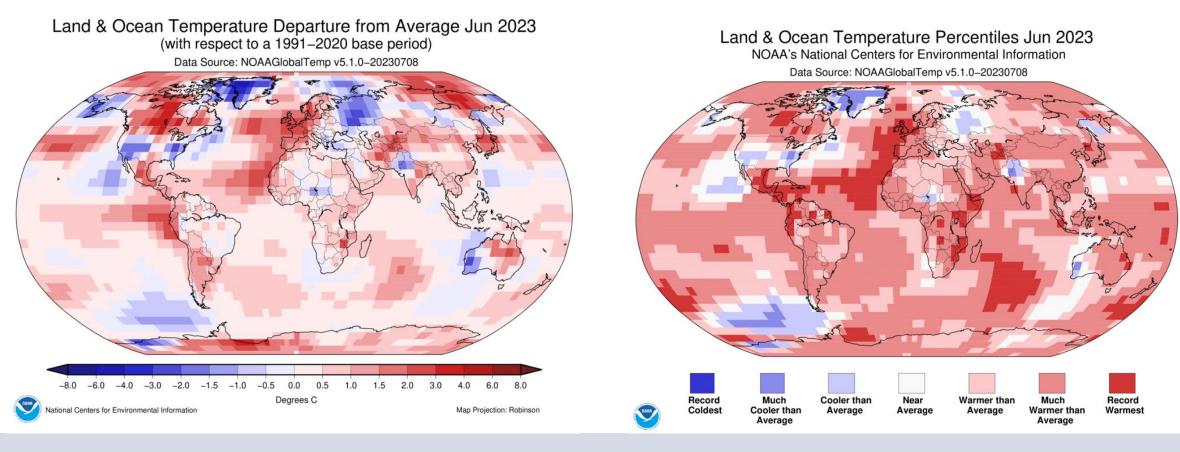
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National Oceanic and Atmospheric Administration

June 2023

June 2023 Global Temperature The global temperature record dates back to 1850 (174 years)

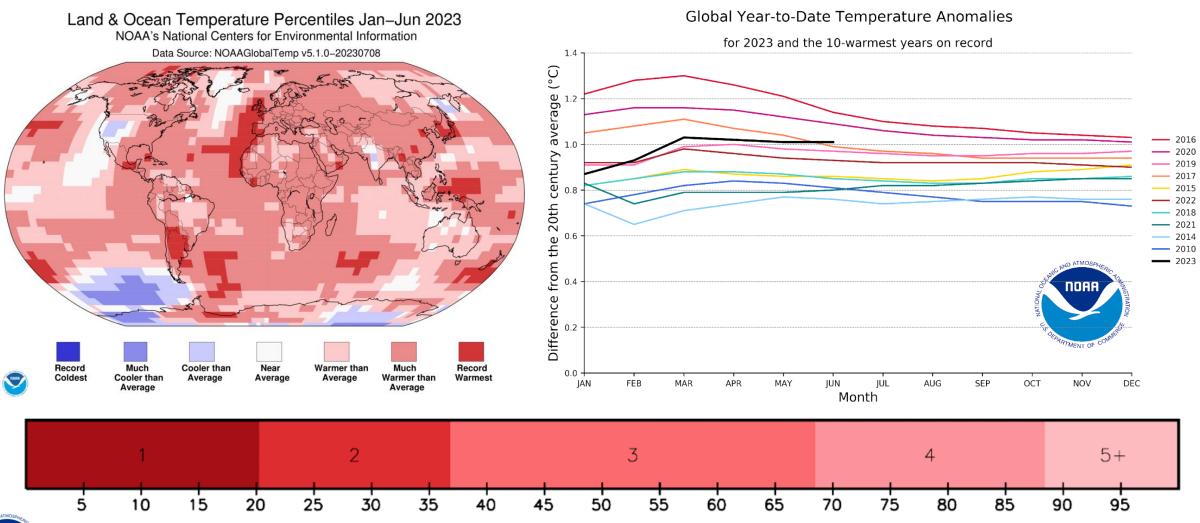


Global Land & Ocean: +1.05°C / +1.89°F; warmest for June on record

Global Land-only: +1.35°C / +2.43°F; warmest for June on record

Global Ocean-only: +0.92°C / +1.66°F; warmest on record

June 2023 Global Temperature The global temperature record dates back to 1850 (174 years)



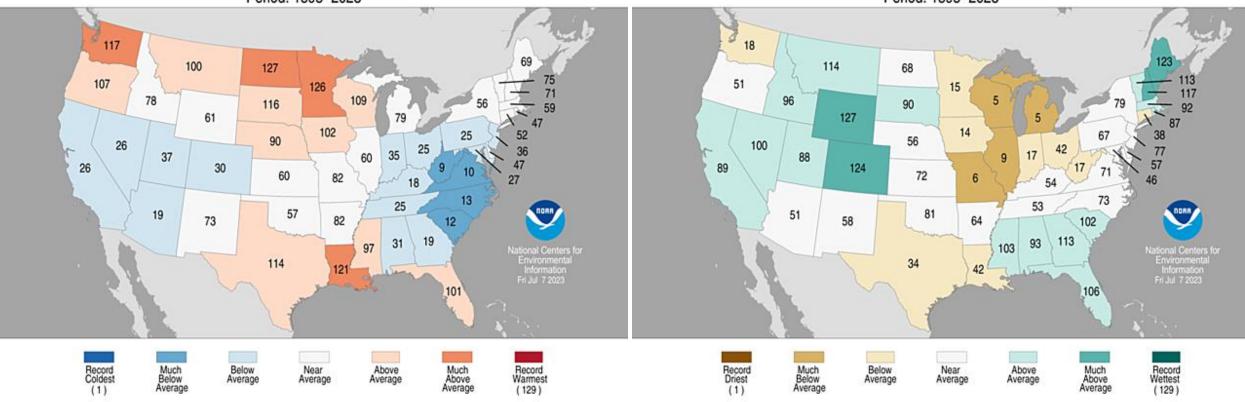
Contiguous U.S. June 2023

Statewide Average Temperature Ranks

June 2023 Period: 1895–2023

Statewide Precipitation Ranks

June 2023 Period: 1895–2023



Temperature: 69.0°F, 0.5°F above average

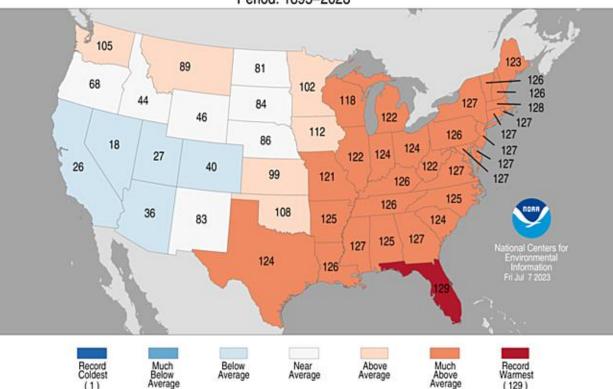
Precipitation: 2.85 inches, 0.08 inch above average



Contiguous U.S. Jan-Jun 2023

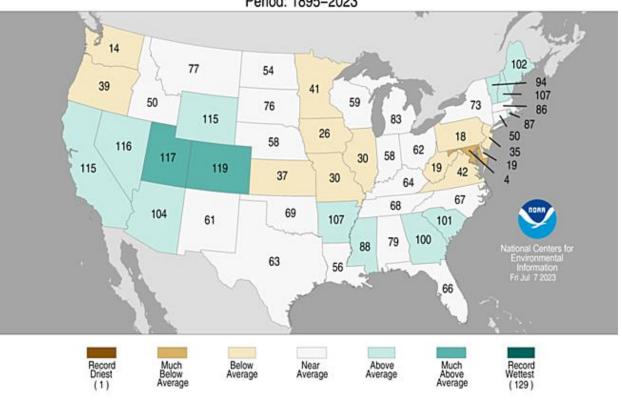
Statewide Average Temperature Ranks

January – June 2023 Period: 1895–2023



Statewide Precipitation Ranks

January - June 2023 Period: 1895-2023

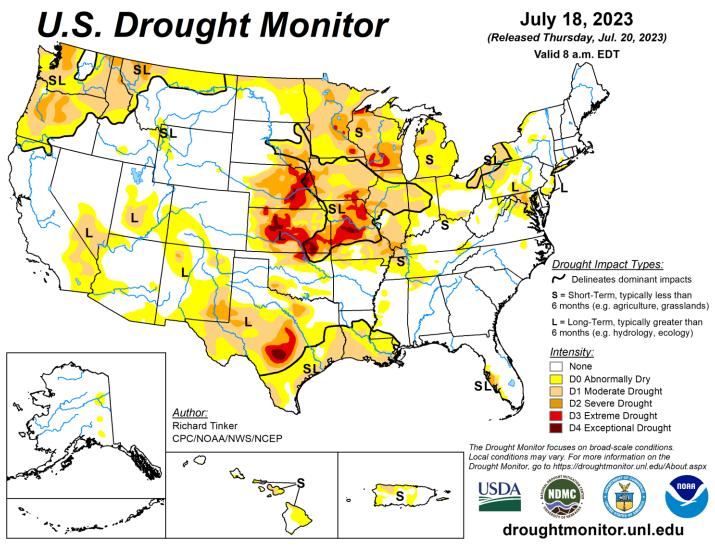


Temperature: 49.2°F, 1.7°F above average

Precipitation: 15.70 inches, 0.39 inch above average



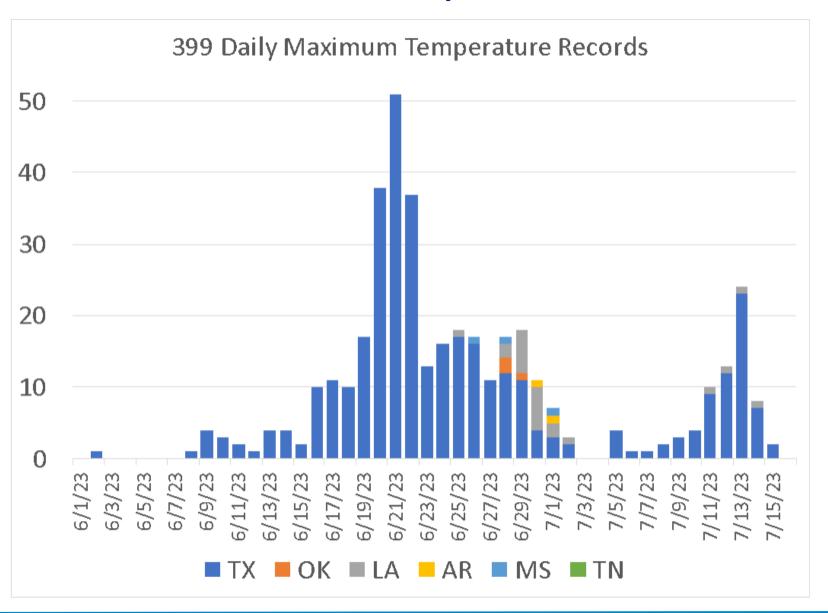
Current U.S. Drought



About 26% of the contiguous U.S. is in some type of drought. This is about 1 percentage point less than a month ago.

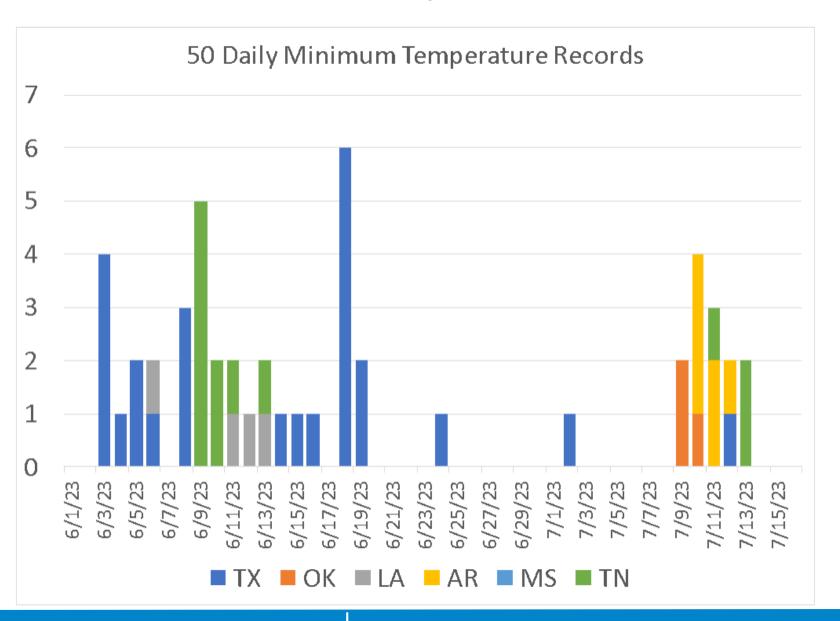


Southern US Temperature Records



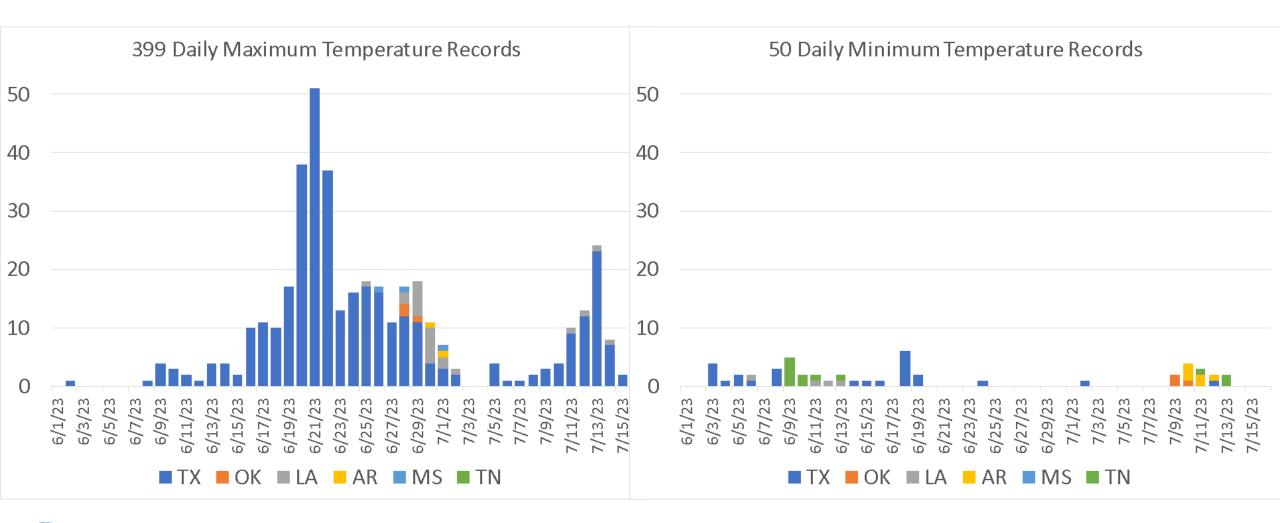


Southern US Temperature Records



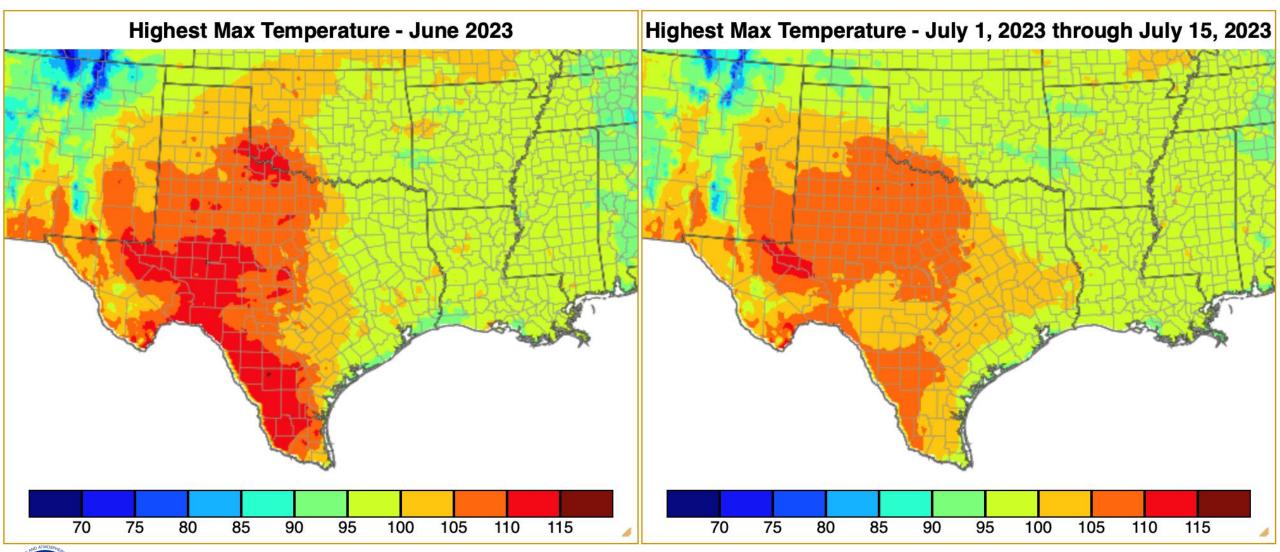


Southern US Temperature Records



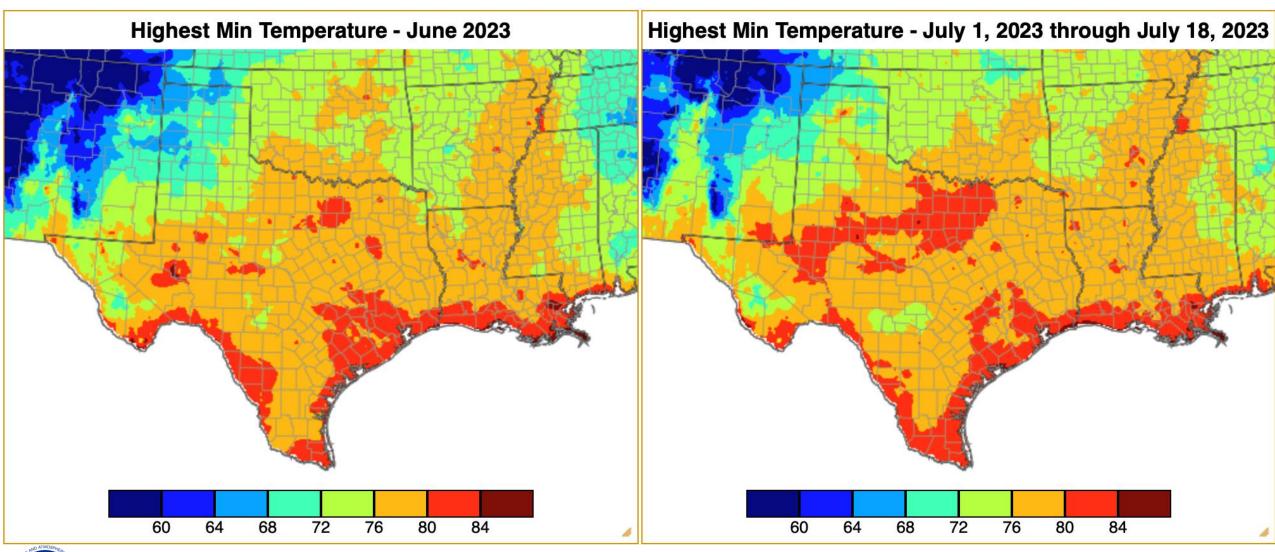


Maximum Temperature Patterns





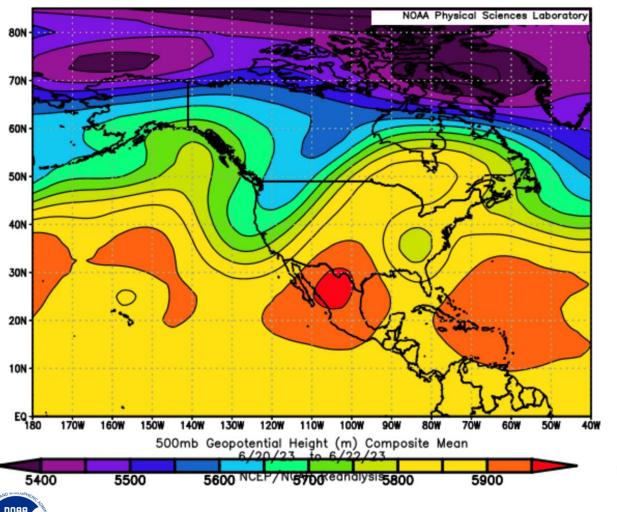
Minimum Temperature Patterns



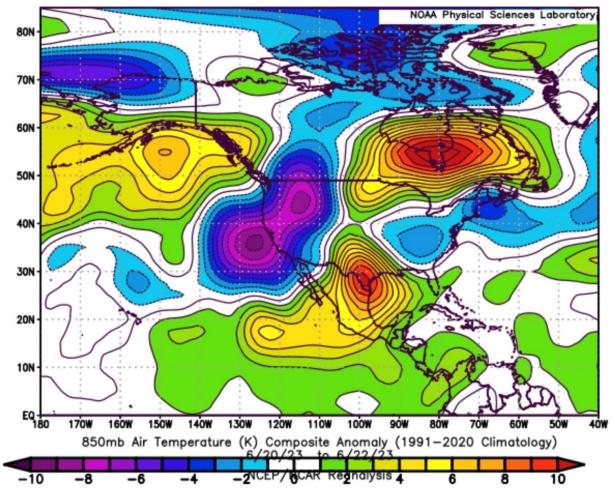


June Heat Weather Pattern

Jet Stream



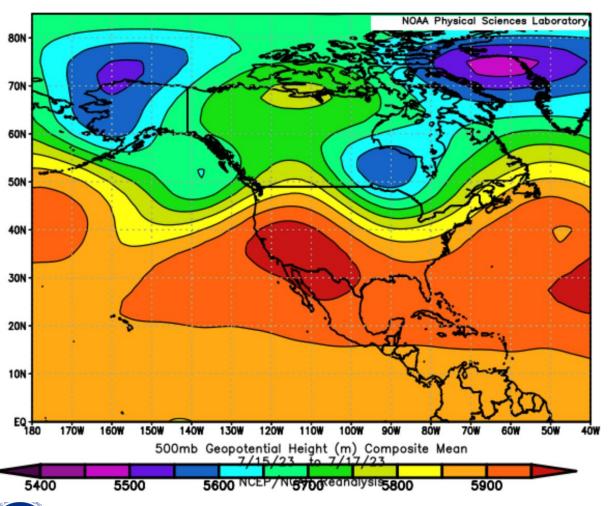
850 mb Temperature Anomalies



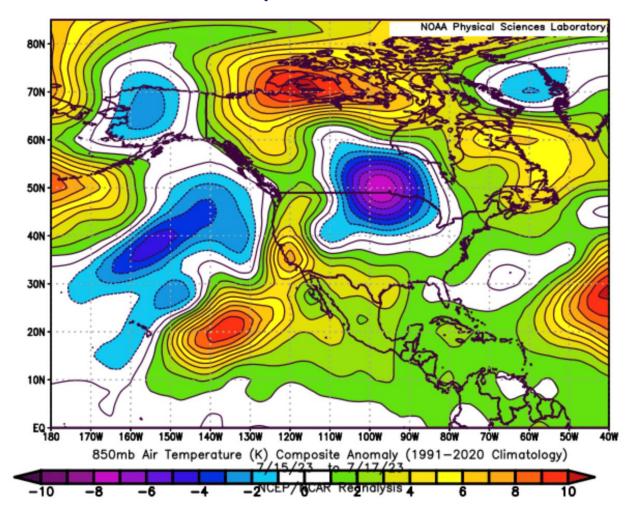


July Heat Weather Pattern

Jet Stream

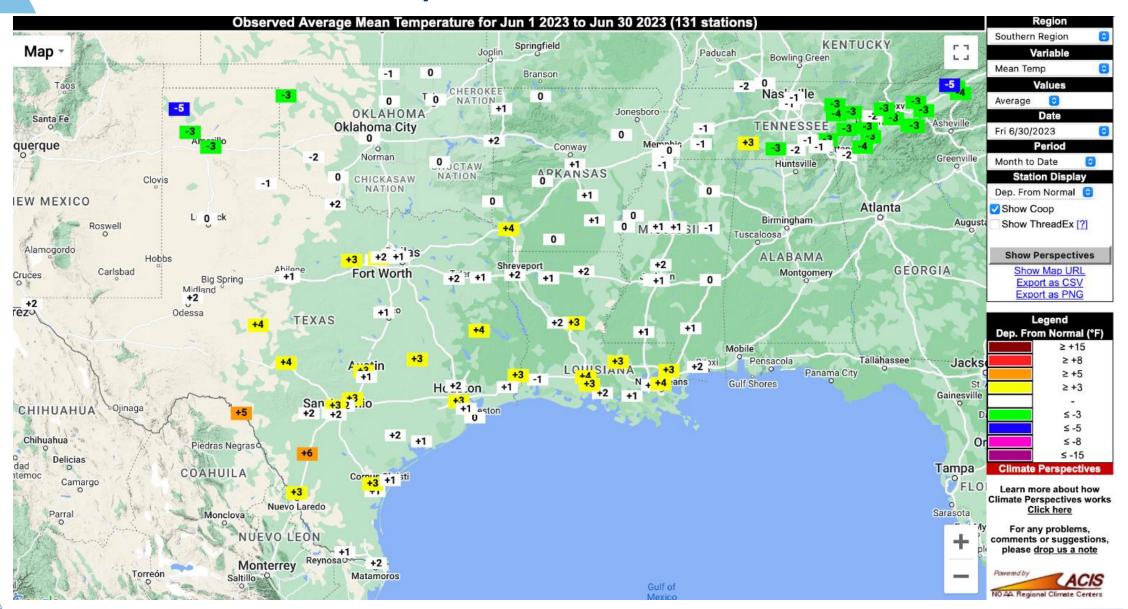


850 mb Temperature Anomalies



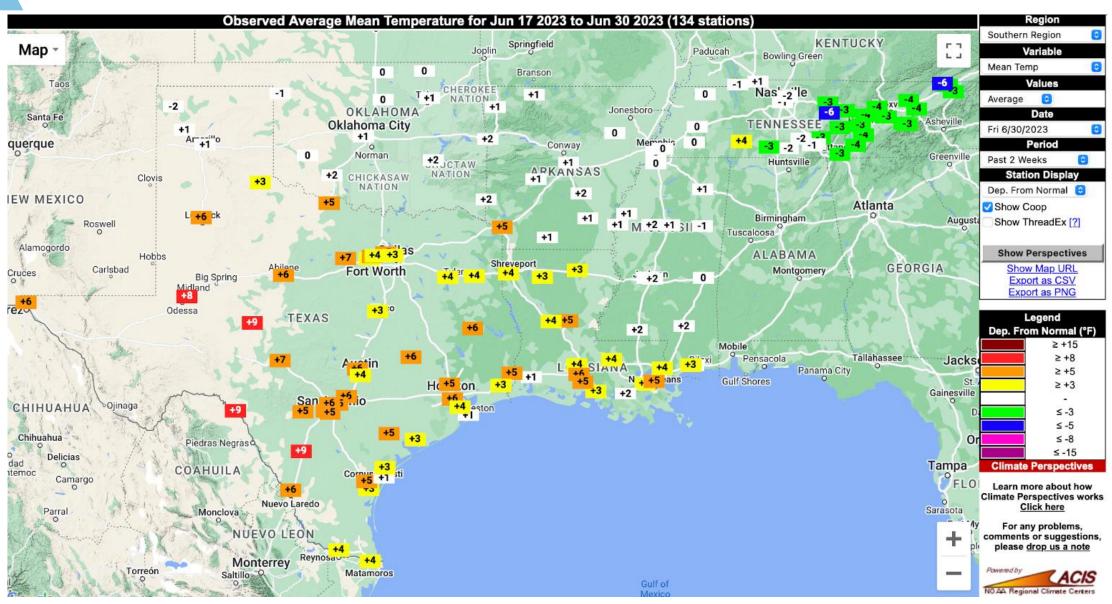


June Departures from Normal



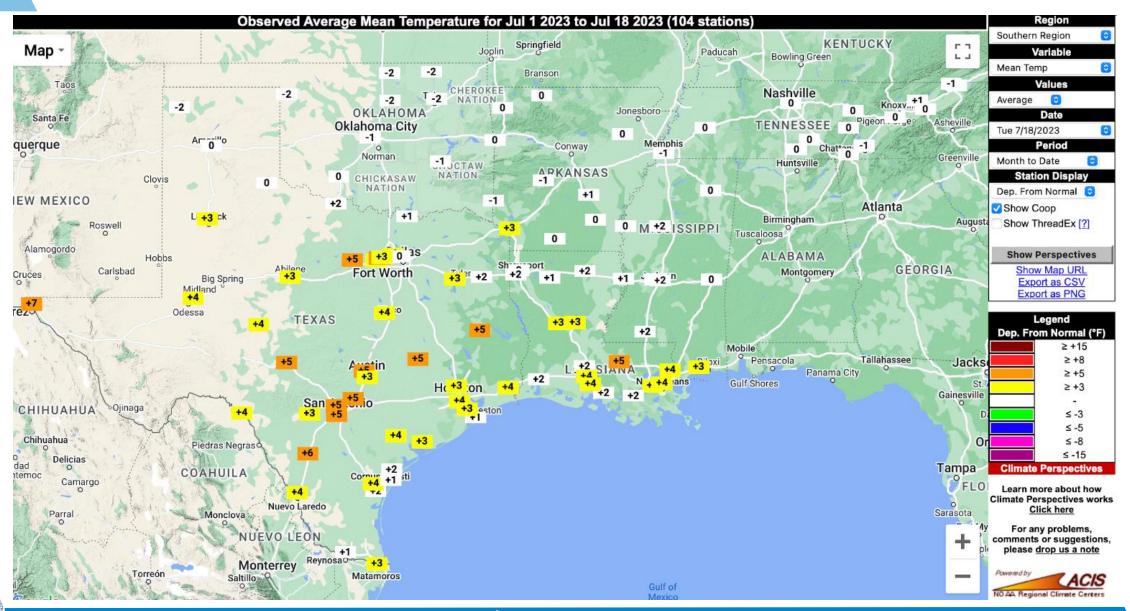


June 17-30 Departures from Normal



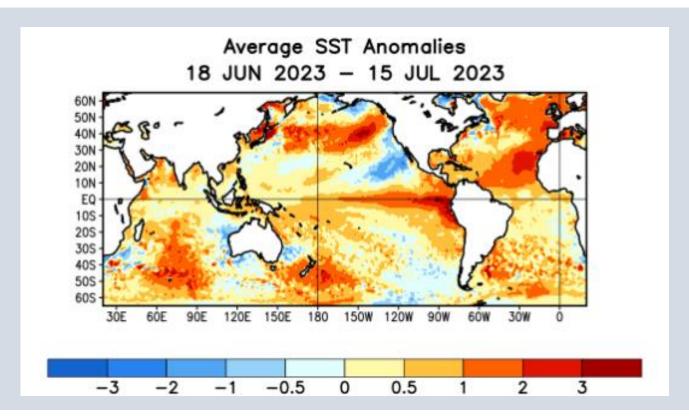


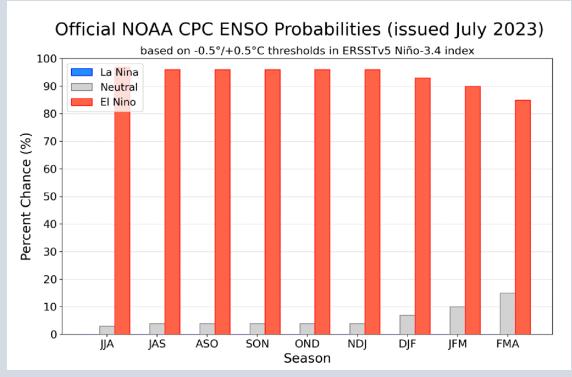
July 1-18 Departures from Normal





Sea Surface Temperatures and ENSO

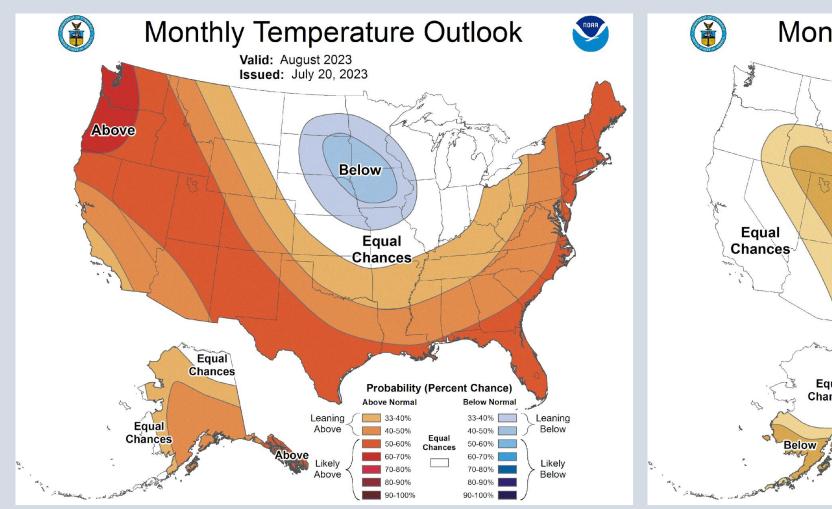


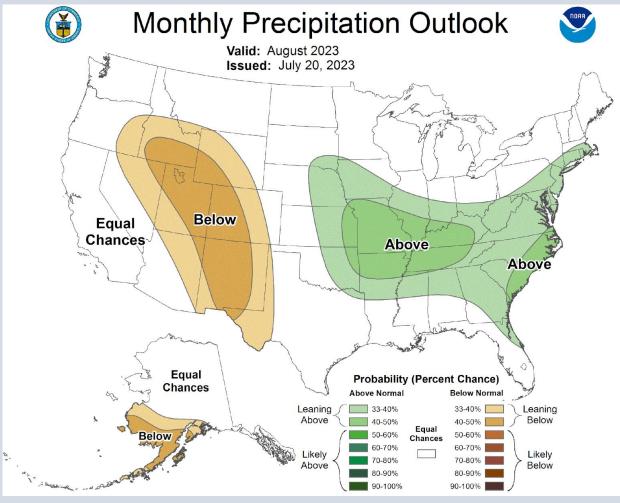


- El Niño advisory SSTs above normal in the equatorial Pacific, winds responding
- El Niño like to continue through 2023
- SSTs in the Atlantic well above normal



Monthly Forecast (August)

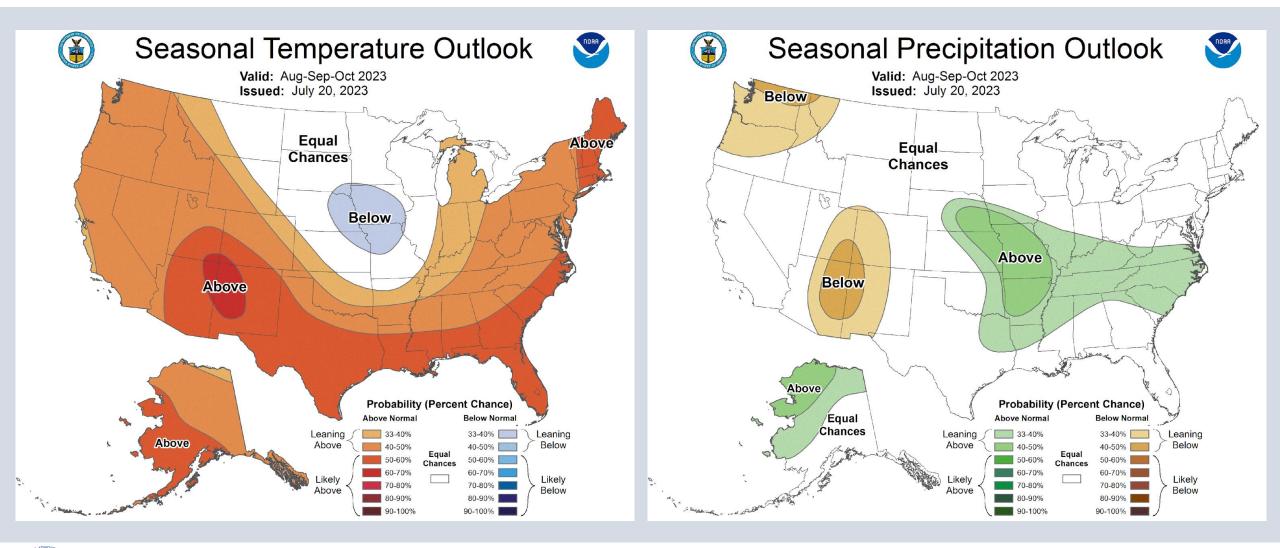






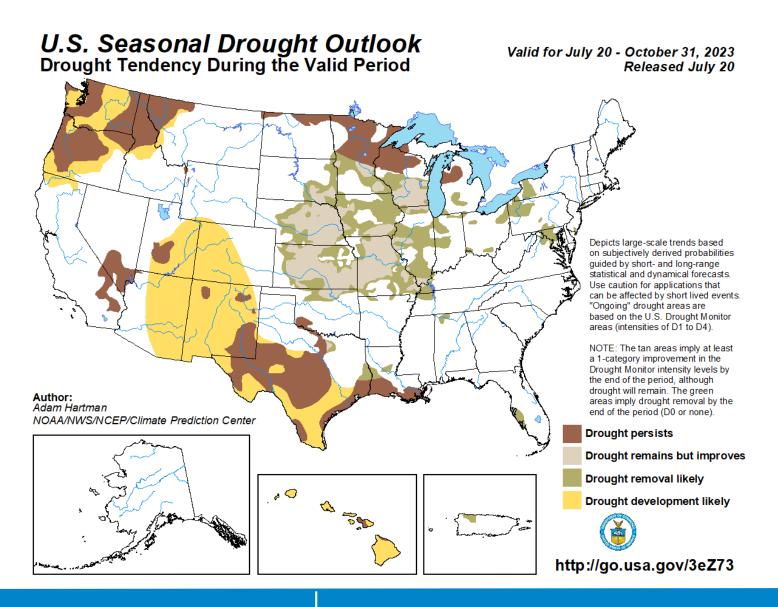
18

Three-Month Forecast (Aug, Sep, Oct)





Drought Outlook





For More Information

Today's presentation:

• https://www.ncei.noaa.gov/access/monitoring/monthly-report/briefings

NOAA's National Centers for Environmental Information: www.ncdc.noaa.gov

- Monthly climate reports (U.S. & Global): https://www.ncei.noaa.gov/access/monitoring/monthly-report/
- Dates for upcoming reports: https://www.ncei.noaa.gov/access/monitoring/dyk/monthly-releases

NOAA's Climate Prediction Center: www.cpc.ncep.noaa.gov

U.S. Drought Monitor: www.drought.gov

Climate portal: www.climate.gov

NOAA media contacts: john.jones-bateman@noaa.gov, 202-424-0929 (NOAA/NESDIS PAO)

