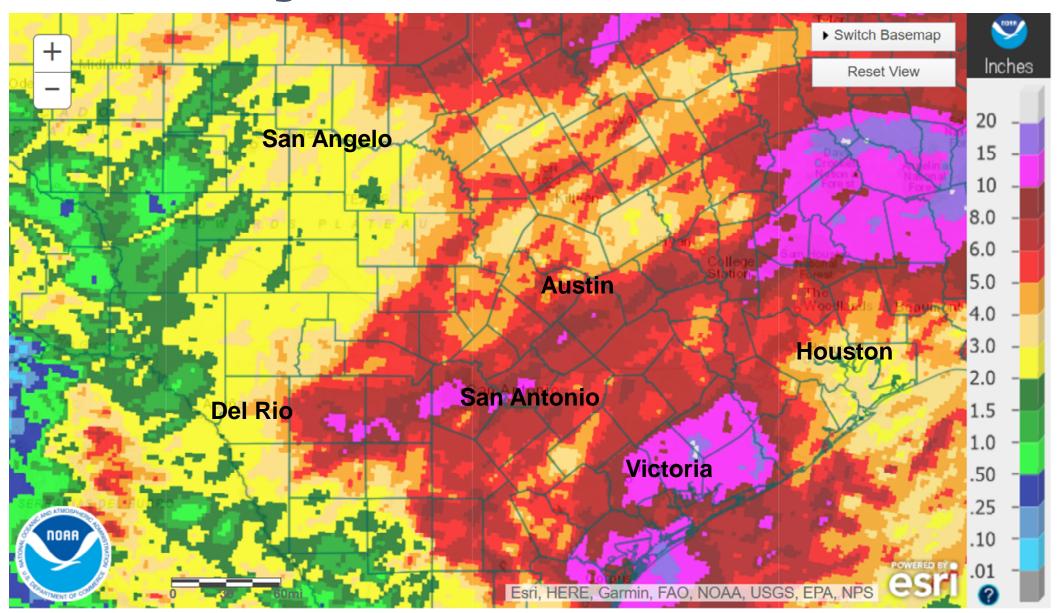
Late Spring and Summer Weather Outlook

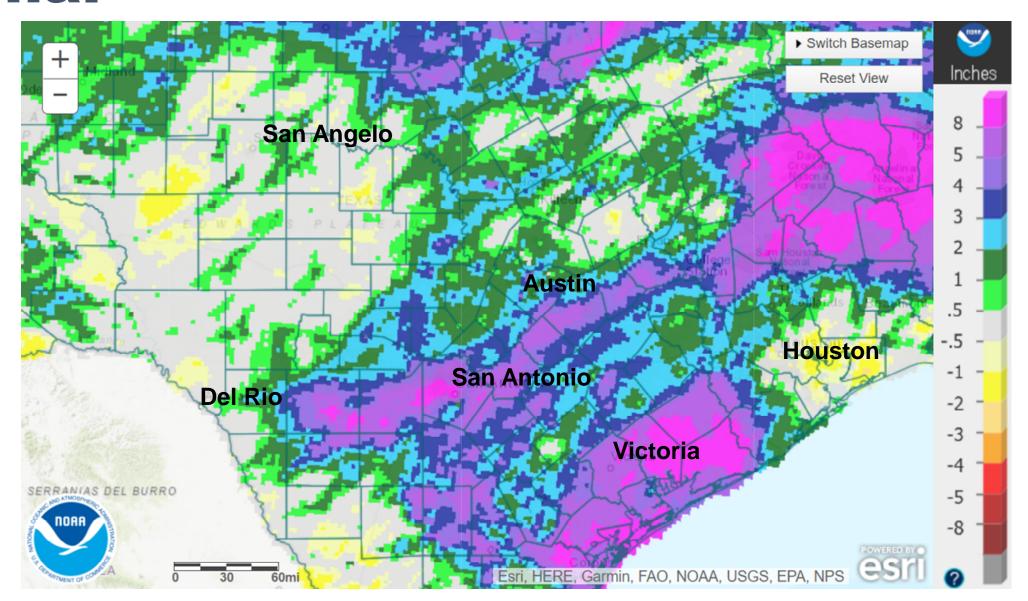
Water Operations Committee Meeting
May 19, 2021



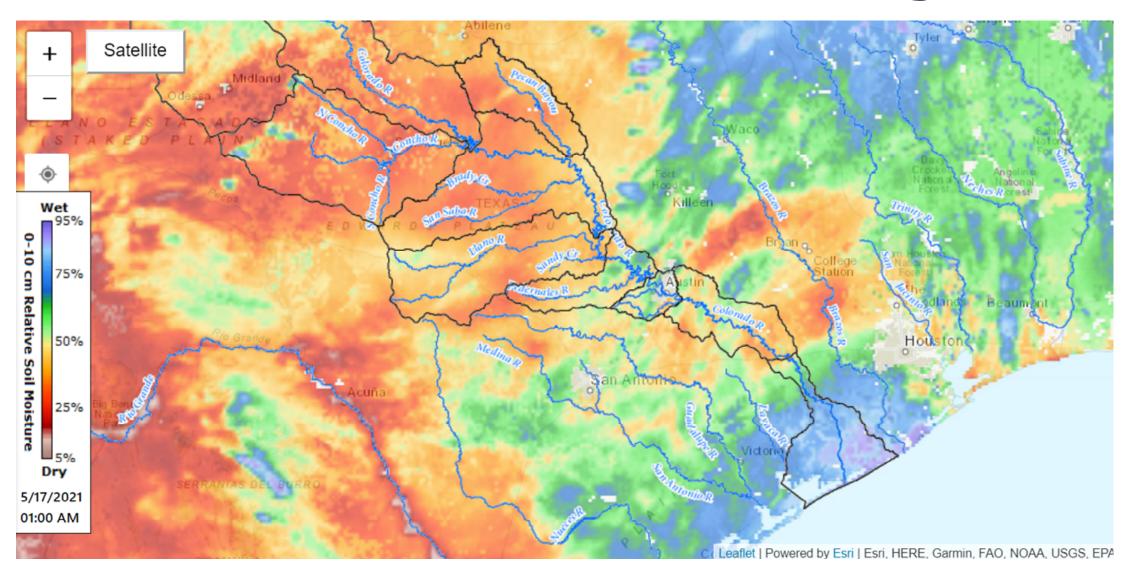
Past 30 Days Rainfall Accumulation



Past 30 Days Rainfall Departure From Normal



Current Soil Moisture Anomaly

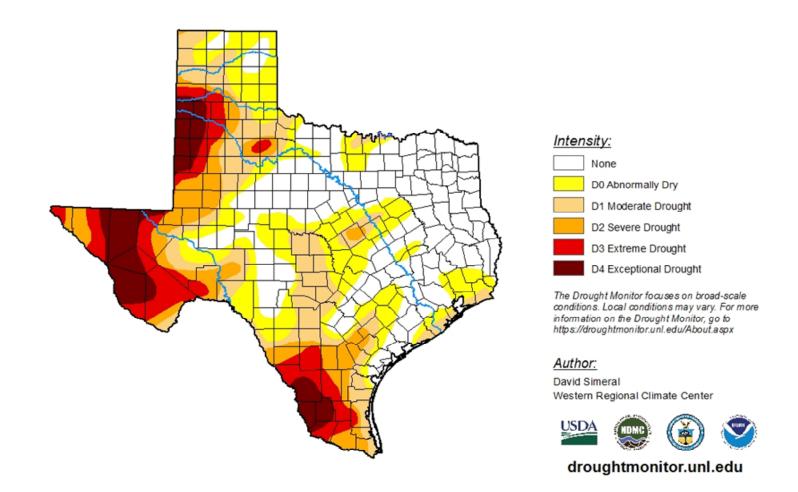


Only Mild Drought Across Basin

U.S. Drought Monitor

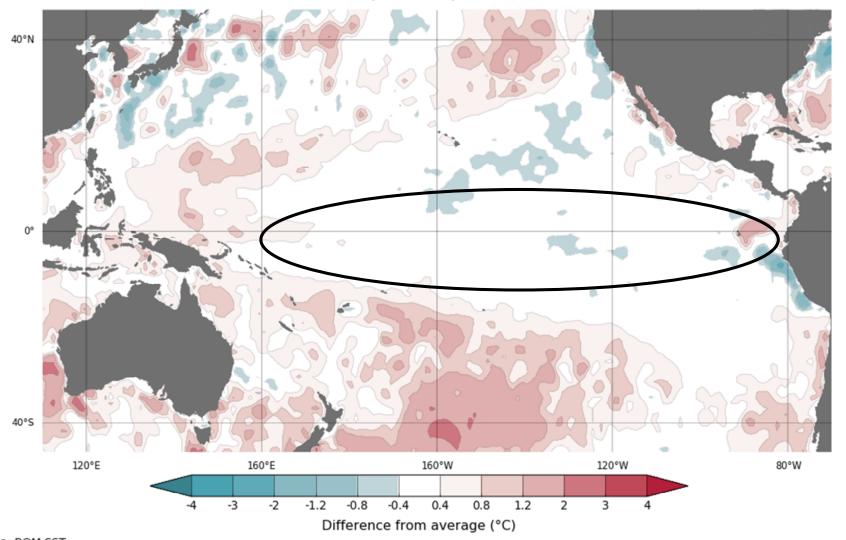
Texas

May 11, 2021 (Released Thursday, May. 13, 2021) Valid 8 a.m. EDT



May 2021 – La Niña has Ended

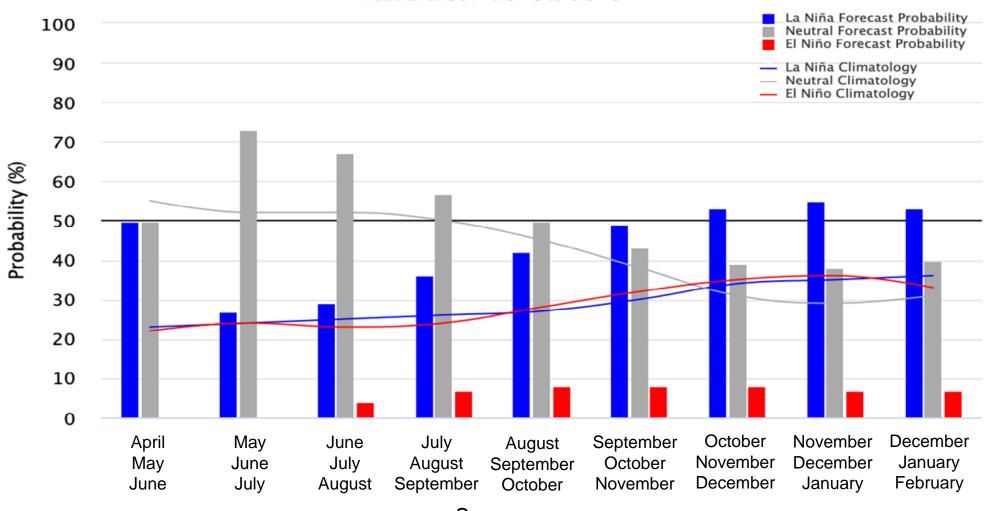
Difference from average sea surface temperature observations 3 May to 9 May 2021



Neutral Pacific Forecast Through Summer

Early-May 2021 CPC/IRI Official Probabilistic ENSO Forecasts

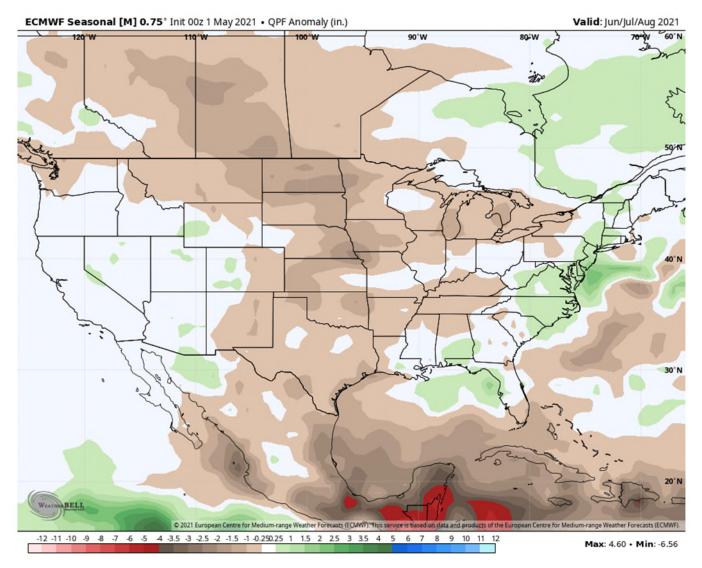
ENSO state based on NINO3.4 SST Anomaly Neutral ENSO: -0.5 °C to 0.5 °C



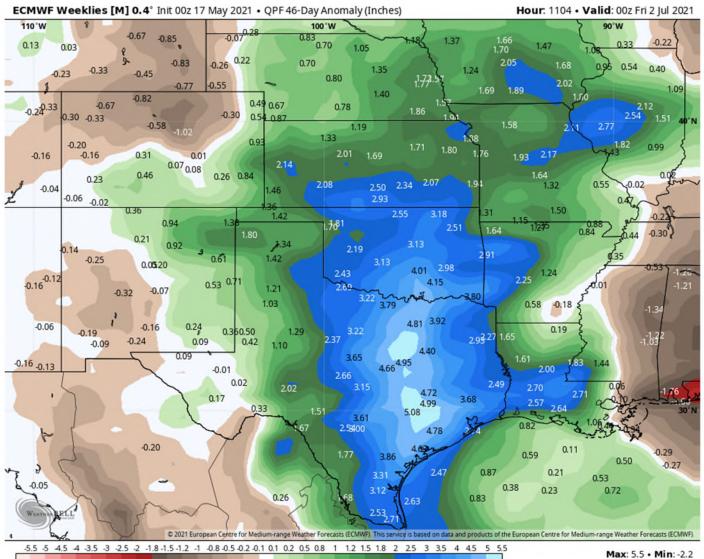
Influences on Summer 2021 Pattern

- La Niña has ended
- Neutral Pacific through summer
- Rainfall forecast trending near normal
- Pacific and Atlantic oceans are both warmer than normal this situation tends to direct hottest temperatures across central and western United States
- Gulf of Mexico is much warmer than normal
- Another very active tropical season forecast

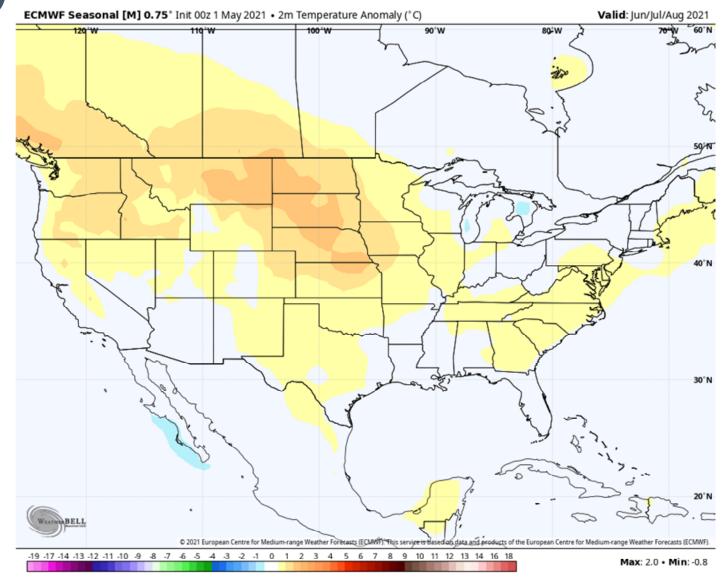
European Centre for Medium-Range Weather Forecasts June-August Rainfall Anomaly



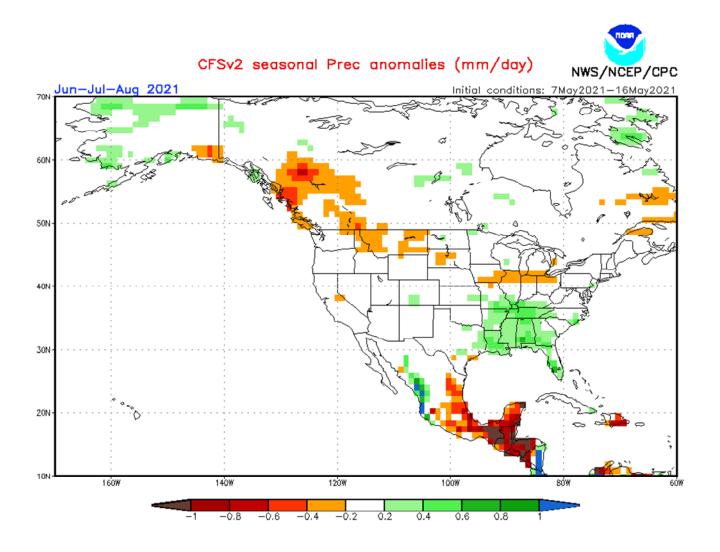
European Centre for Medium-Range Weather Forecasts Rainfall Anomaly thru July 2nd



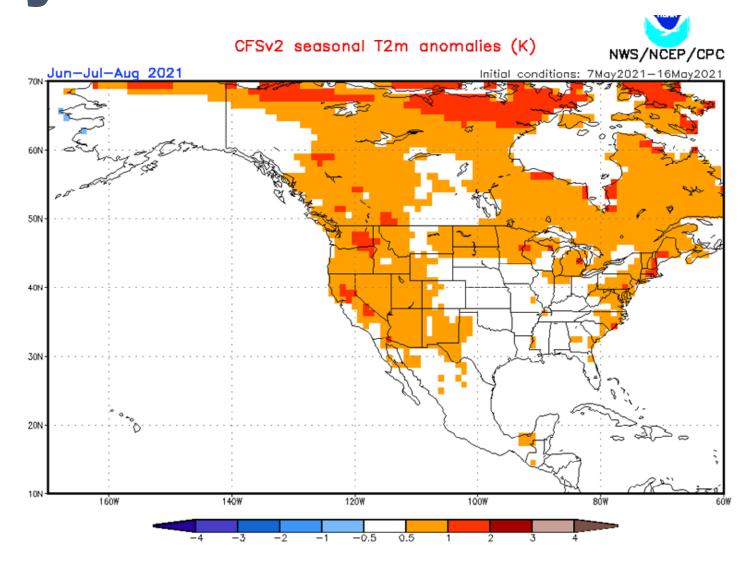
ECMWF June-August Temperature Anomaly



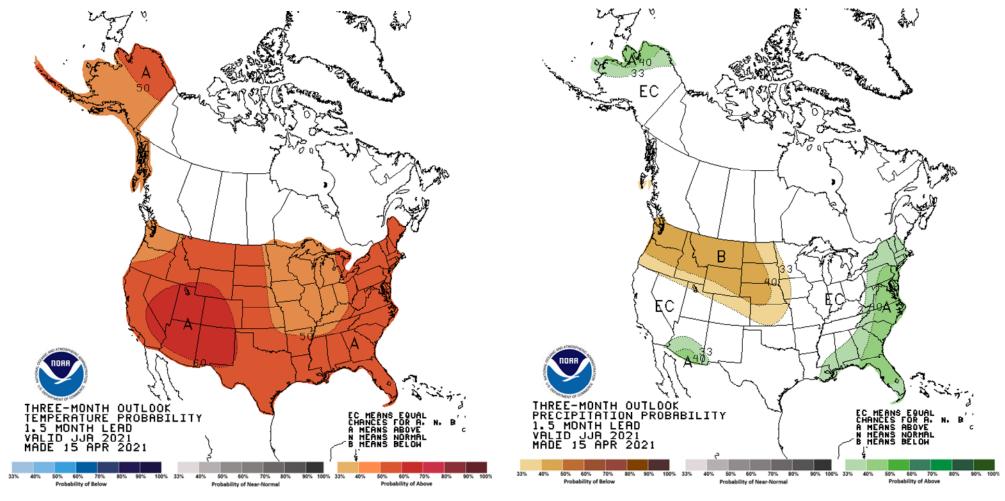
Climate Forecast System Version 2 June-August Rainfall Anomaly



CFSv2 June-August Temperature Anomaly



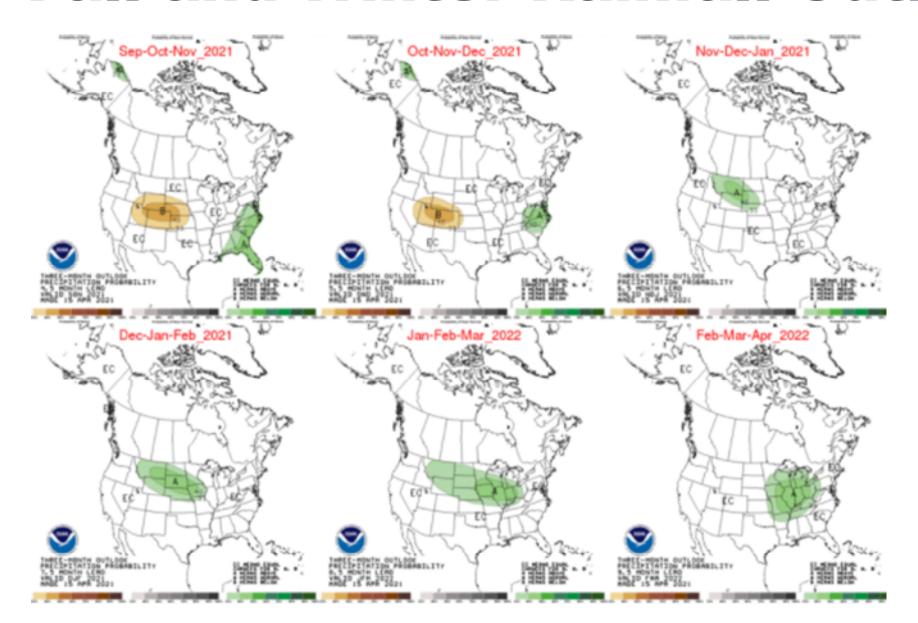
National Weather Service Summer Outlook



Temperature

Precipitation

NWS Fall and Winter Rainfall Outlook



Summer 2021 Outlook

- Hot summer ahead; temperatures averaging 1.5-2 degrees warmer than normal
- Close to 40 triple-digit days
- Rainfall averaging above normal May and June
- Near normal rainfall July and August
- Another very active tropical weather season forecast
- Some evidence La Niña could return this fall

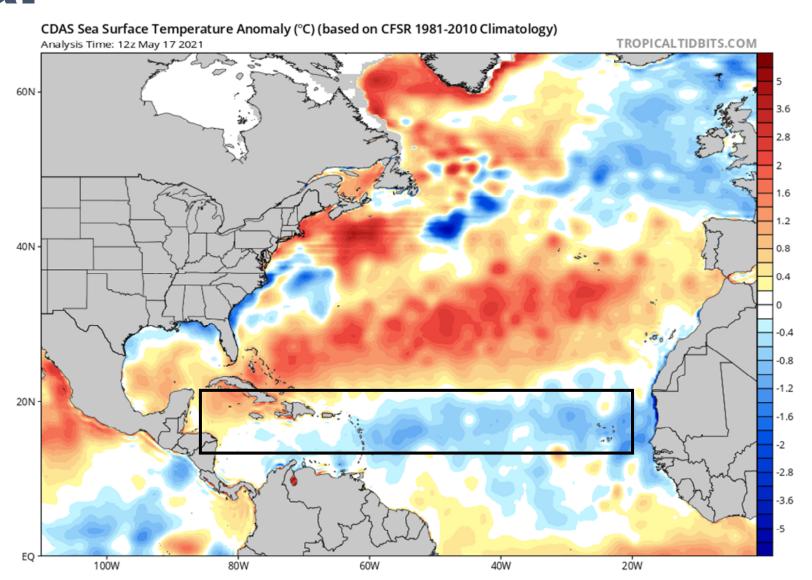
Outlook for 2021 Atlantic Hurricane Season



2020 Atlantic Hurricane Season



Atlantic Waters Much Warmer Than Normal



Colorado State University 2021 Outlook

CSU	
Forecast	1981-2010* Average
17	12.1
80	59.4
8	6.4
35	24.2
4	2.7
9	6.2
150	106
160	116
	80 8 35 4 9 150