

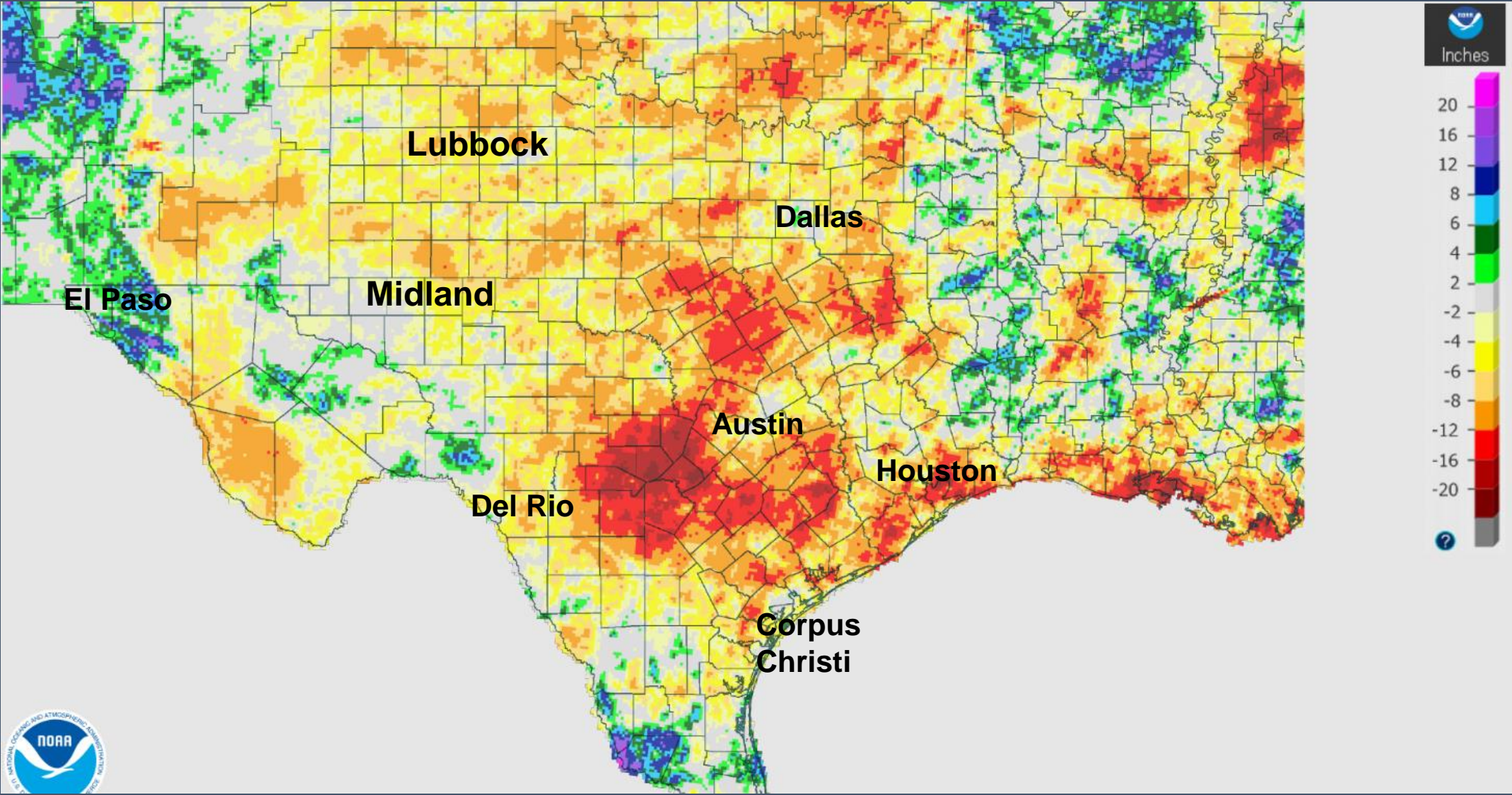
Spring/Summer Weather Outlook

Water Quality Advisory
Committee Meeting

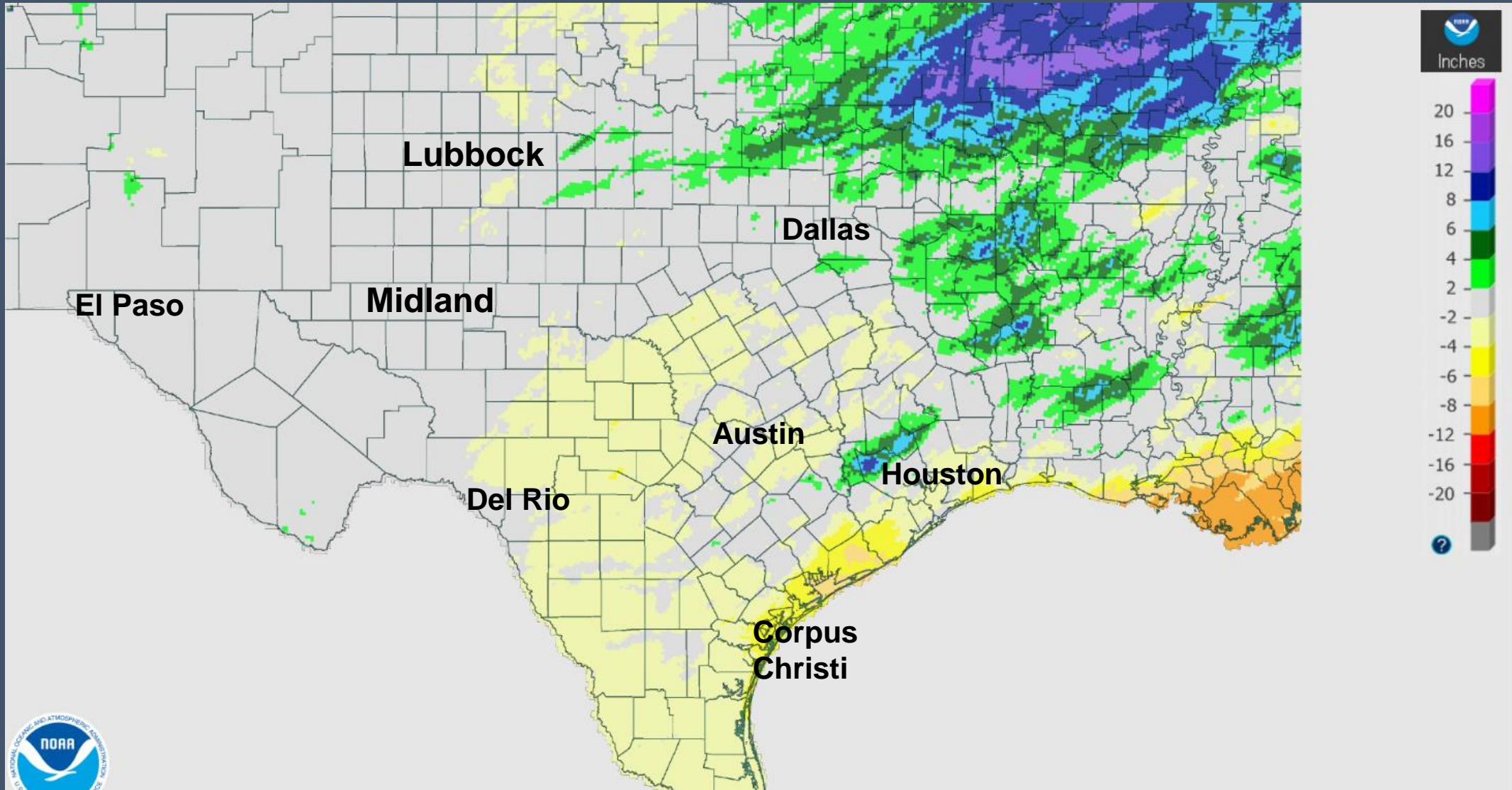
March 30, 2023



2022 Rainfall Departure from Normal

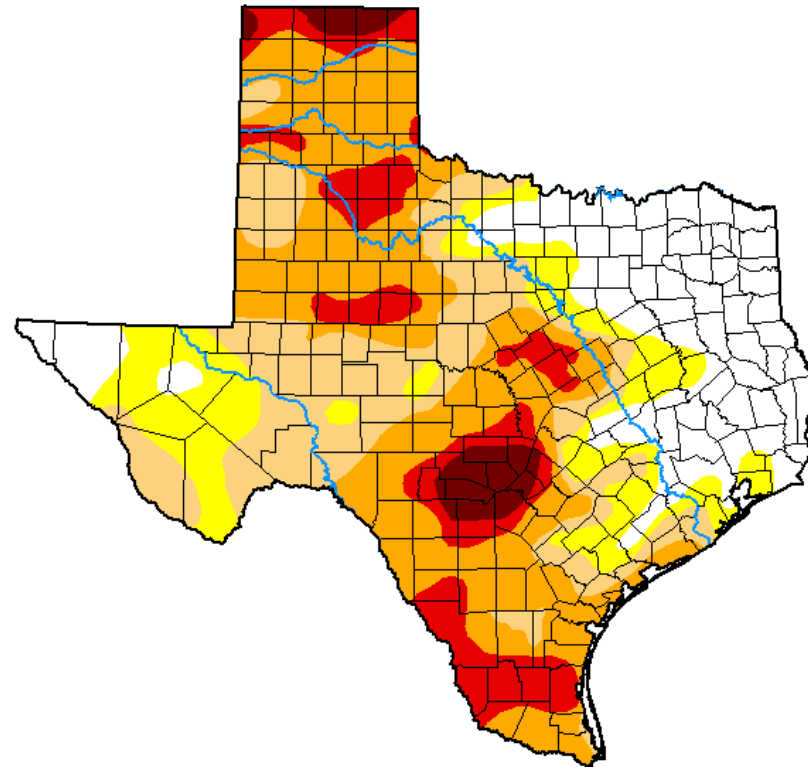


Rainfall Departure from Normal Since January 1



U.S. Drought Monitor

U.S. Drought Monitor Texas



March 21, 2023

(Released Thursday, Mar. 23, 2023)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	21.63	78.37	64.18	43.53	14.21	3.15
Last Week <i>03-14-2023</i>	22.03	77.97	64.71	41.59	14.21	1.84
3 Months Ago <i>12-20-2022</i>	27.57	72.43	48.59	25.88	7.13	1.24
Start of Calendar Year <i>01-03-2023</i>	28.84	71.16	49.90	26.60	7.41	1.60
Start of Water Year <i>09-27-2022</i>	14.96	85.04	61.36	31.61	8.82	1.06
One Year Ago <i>03-22-2022</i>	4.28	95.72	88.24	71.31	40.38	6.20

Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

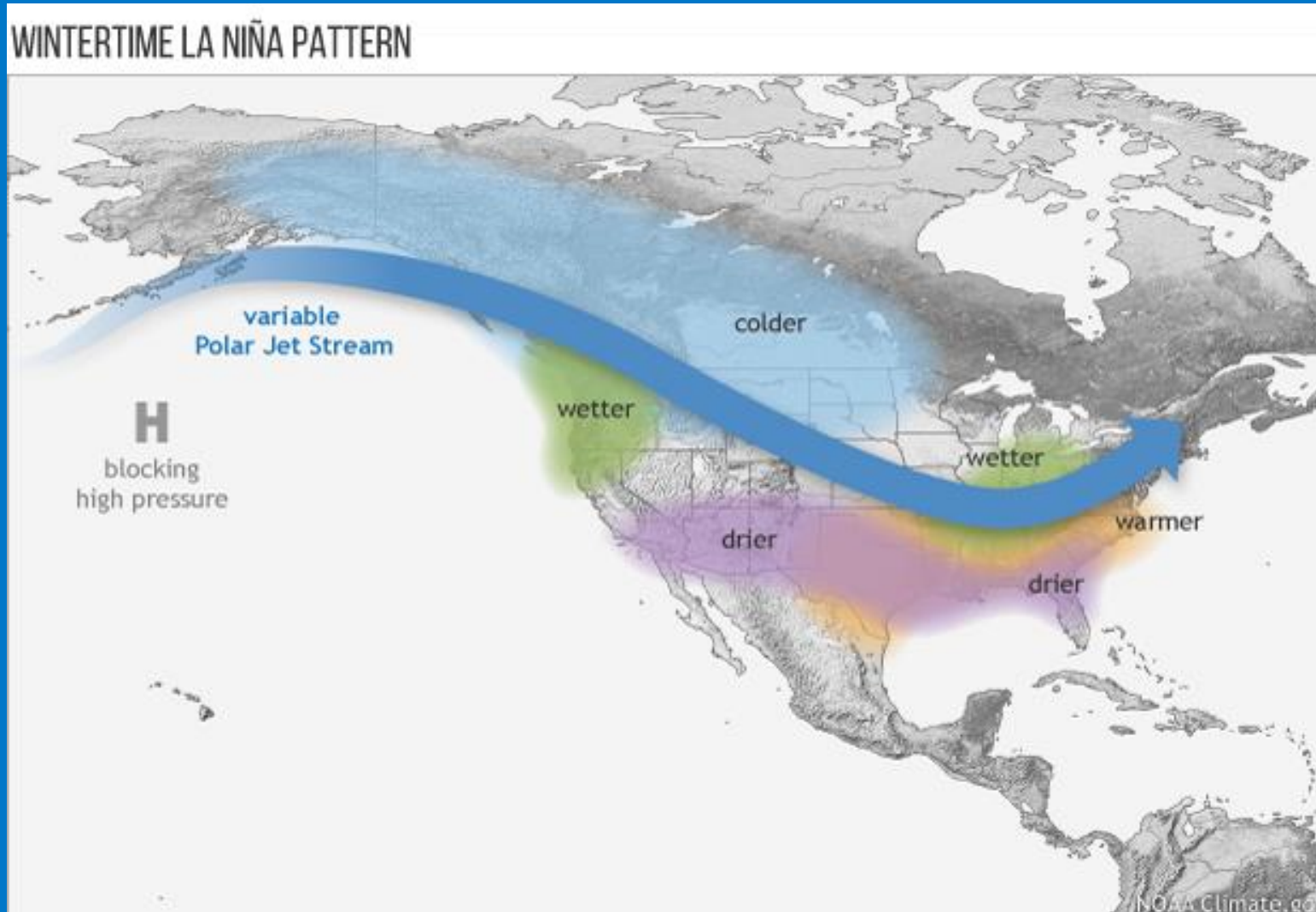
Author:

Curtis Riganti
National Drought Mitigation Center



droughtmonitor.unl.edu

Typical Wintertime La Niña Pattern

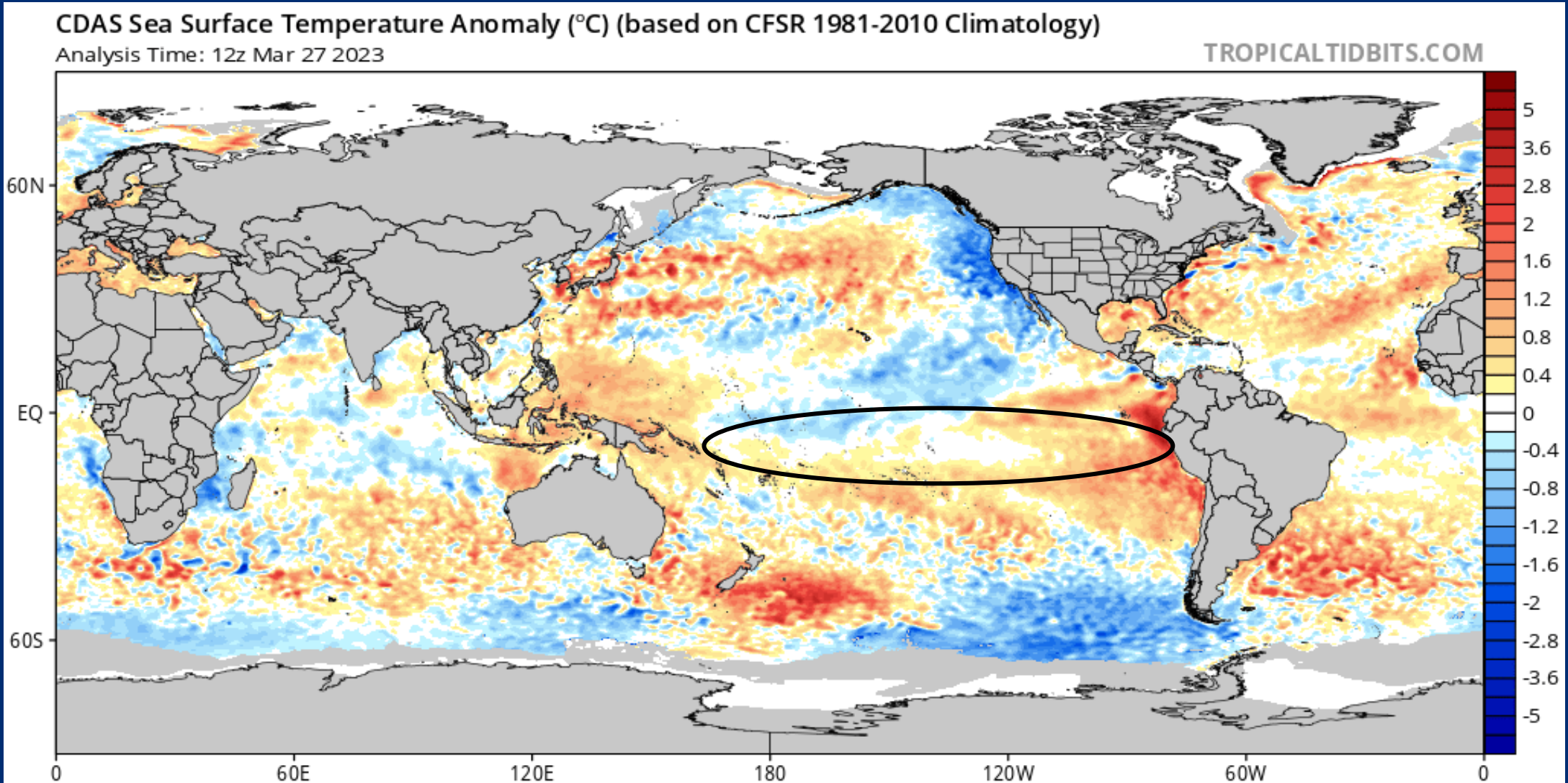


Typical Wintertime La Niña Pattern



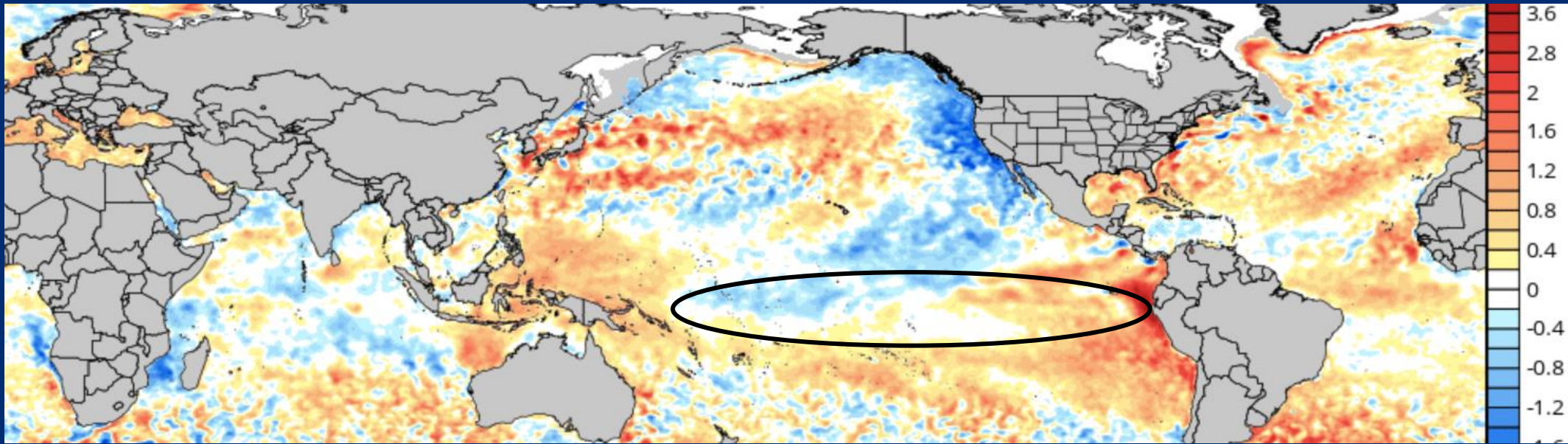
**La Niña
Has Ended**

March 2023: A Neutral Pacific is in Place

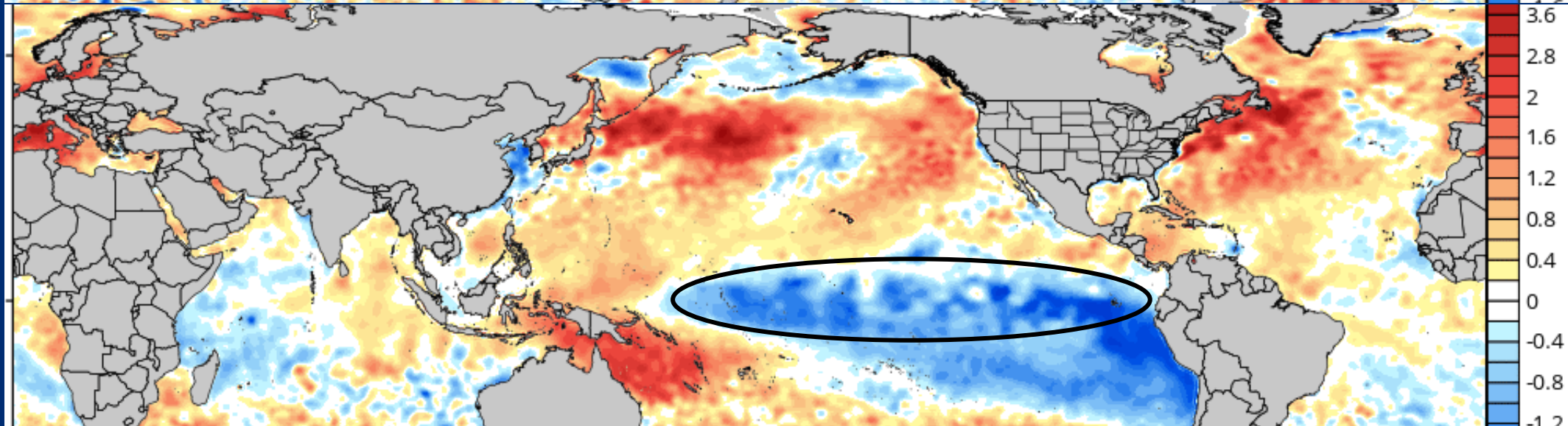


Pacific Waters are Warming

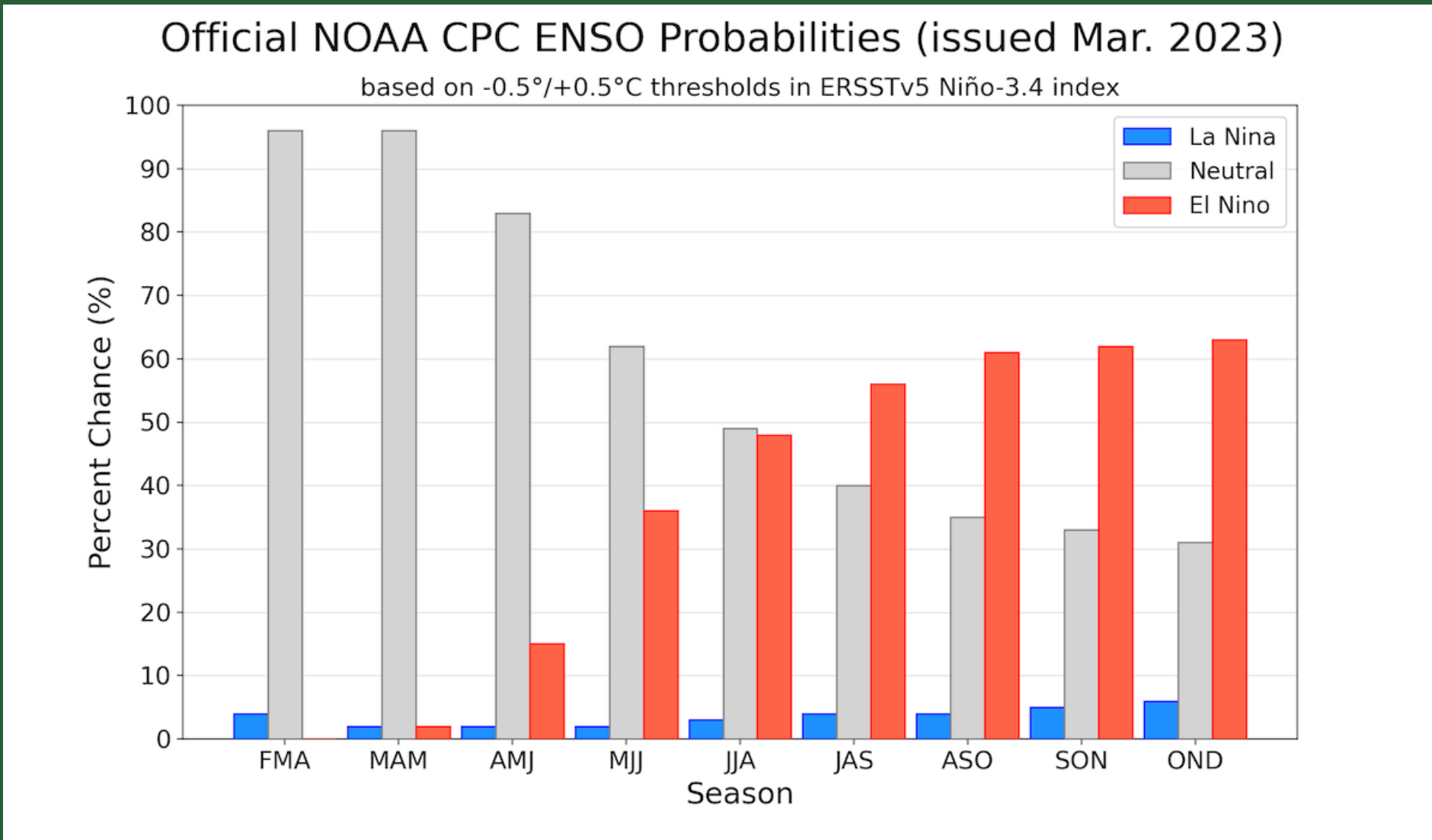
March
2023



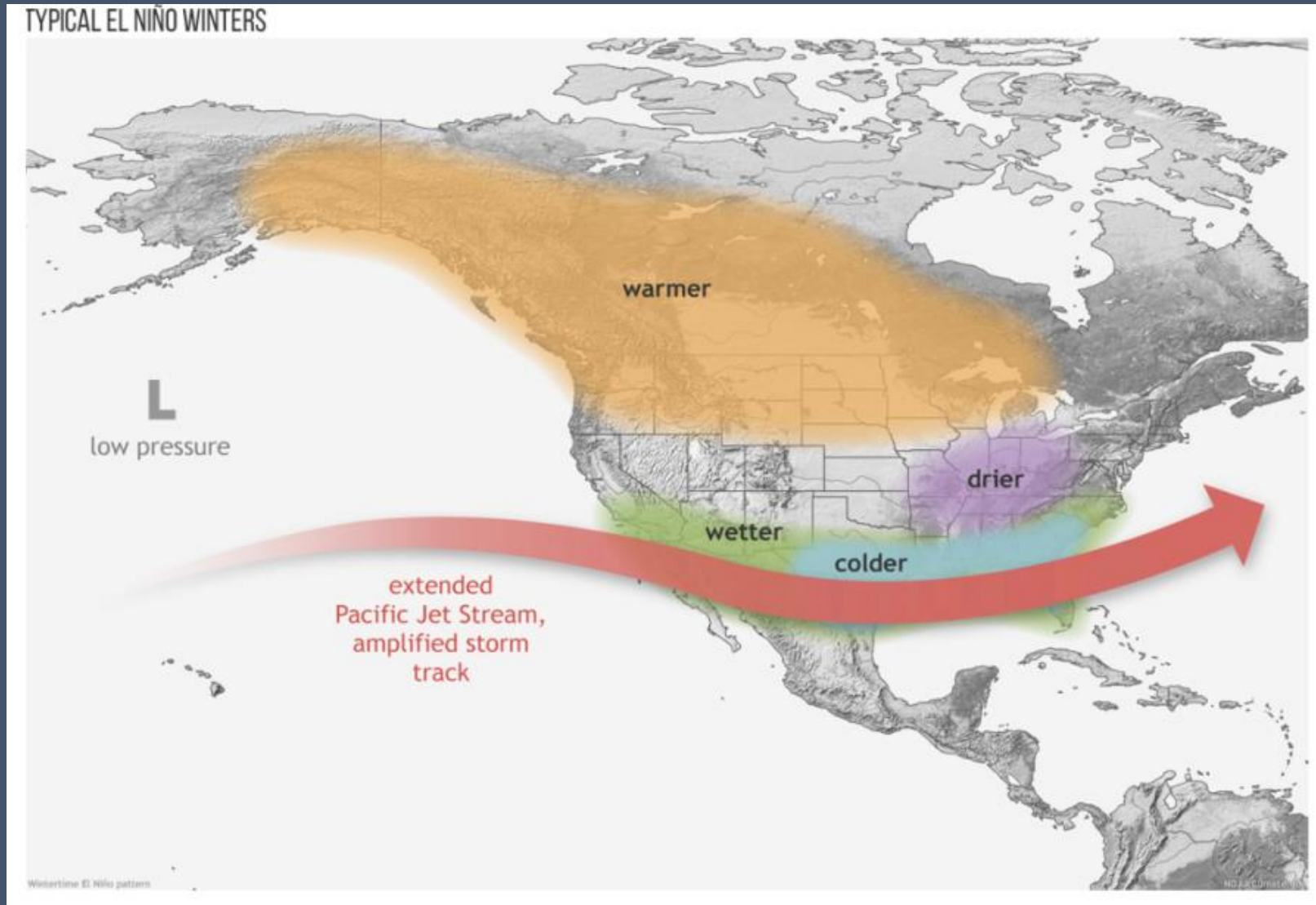
October
2022



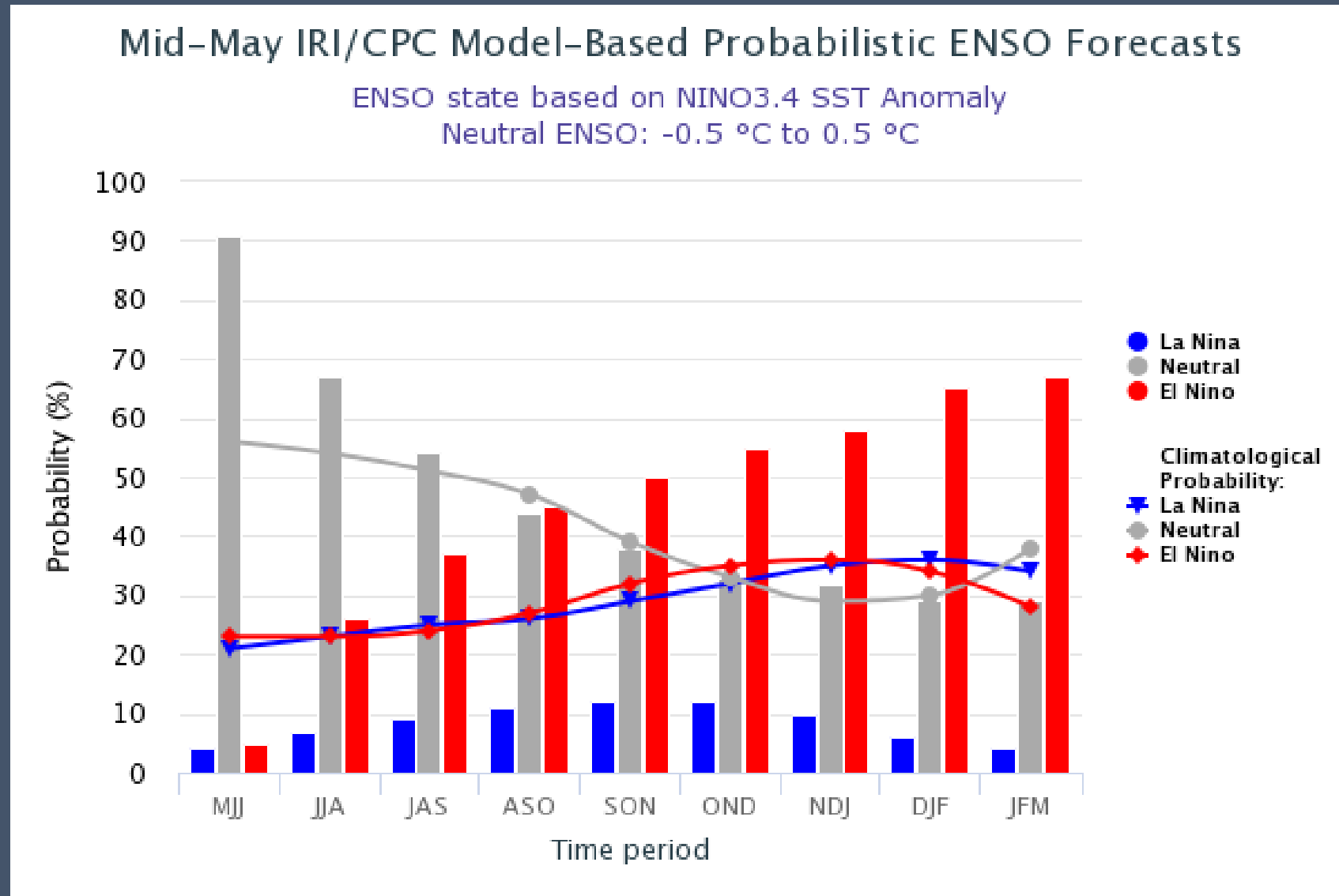
A Neutral Pacific this Spring; Headed to El Niño by Fall?



Typical Fall/Wintertime El Niño Pattern

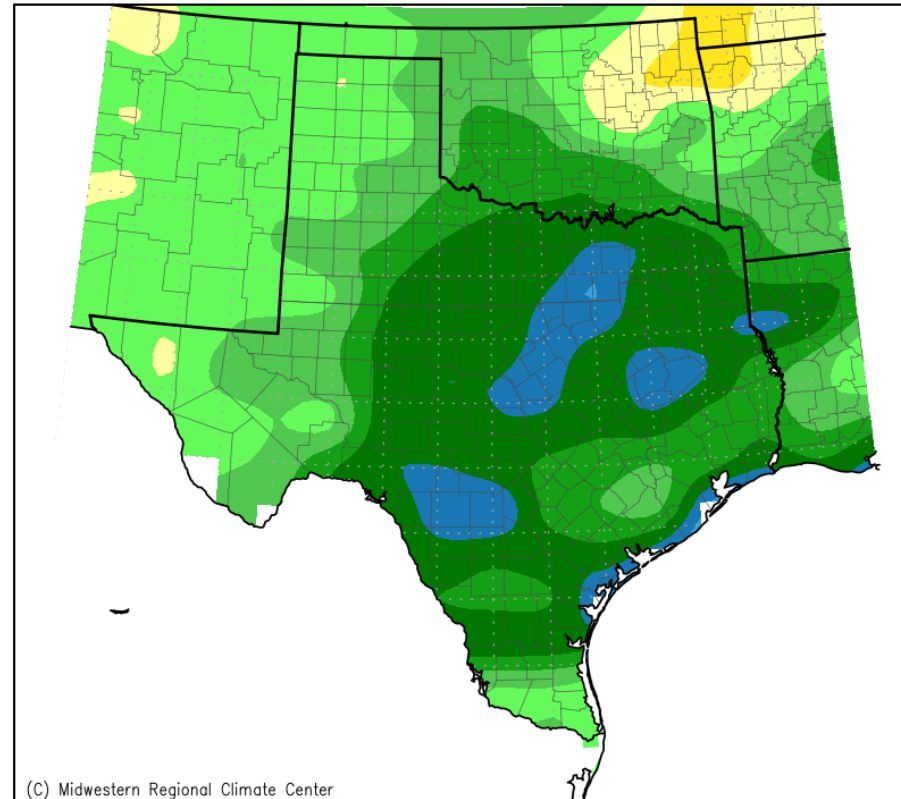


El Niño Forecast from Spring 2018



Departure from Normal Rainfall September through November 2018

Accumulated Precipitation (in): Departure from Mean
September 1, 2018 to November 30, 2018

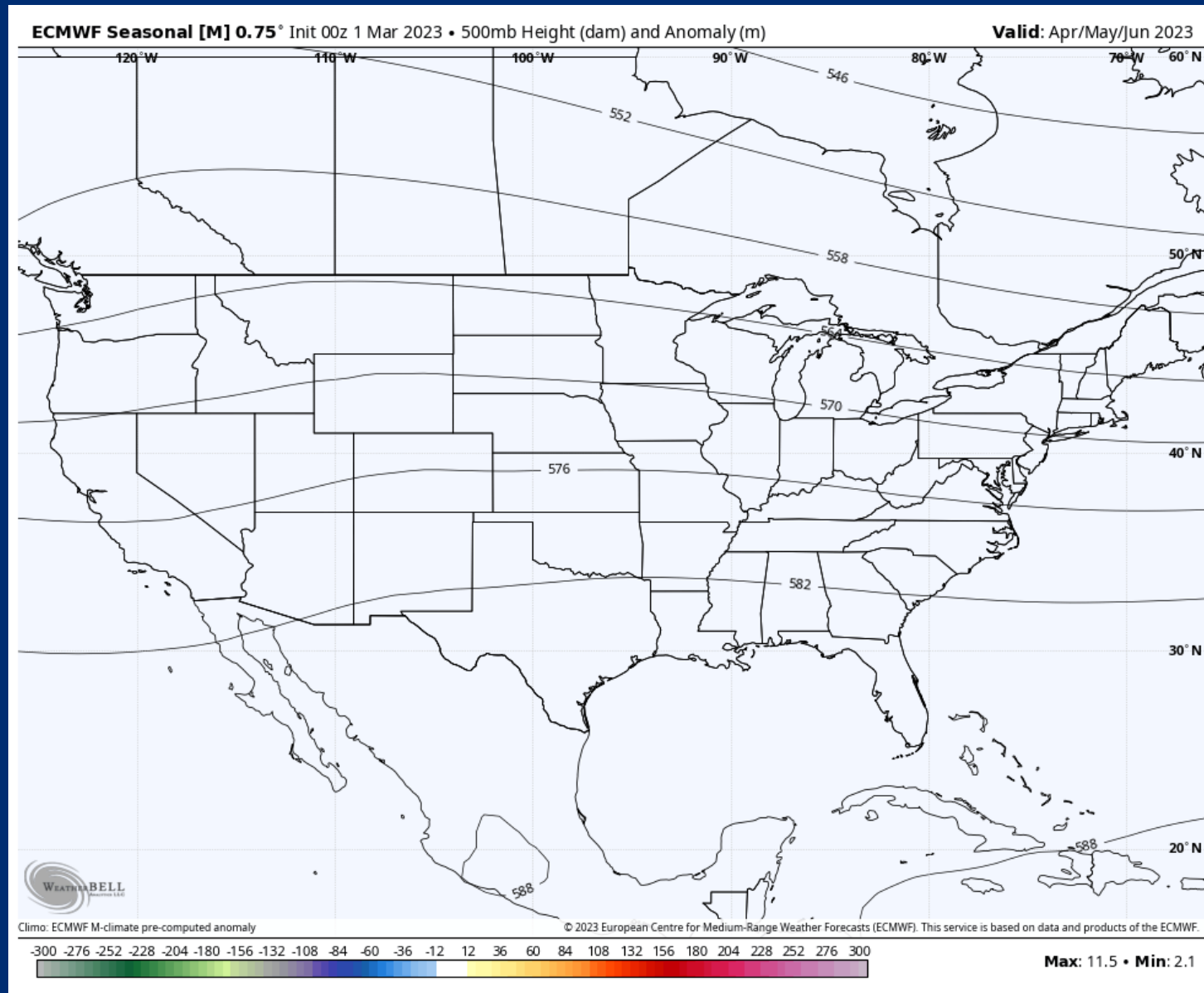


Mean period is 1991–2020.

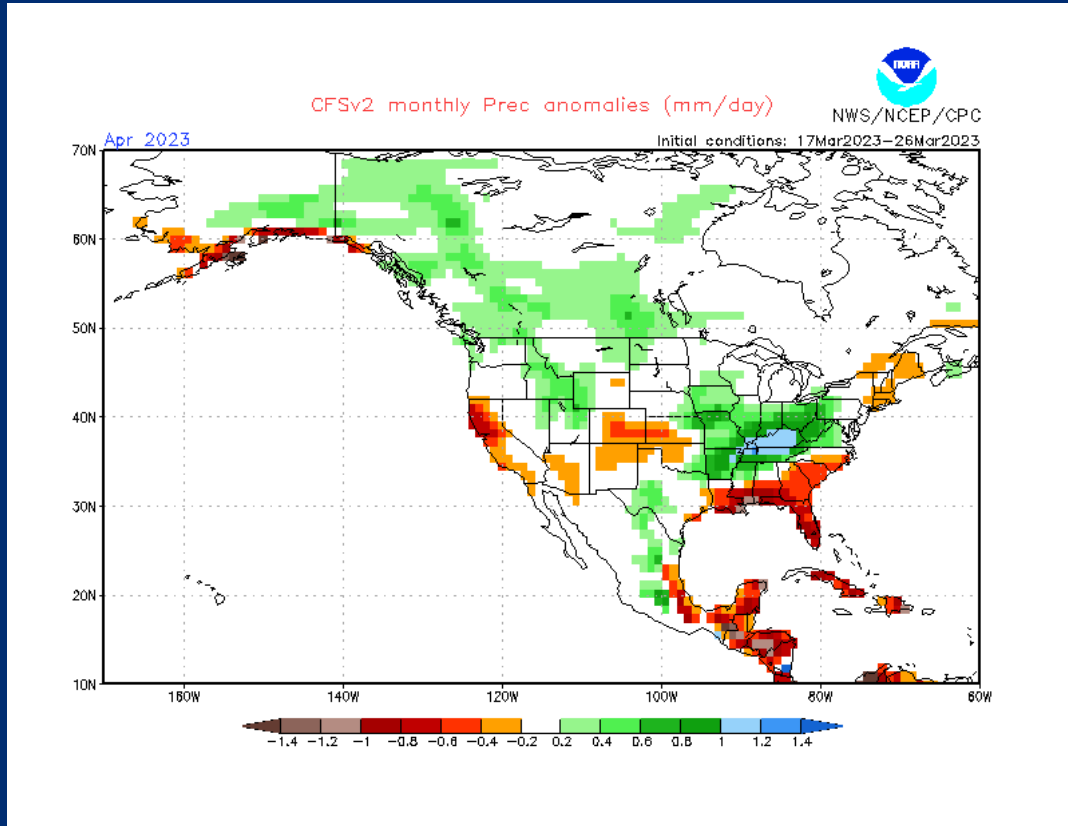


Midwestern Regional Climate Center

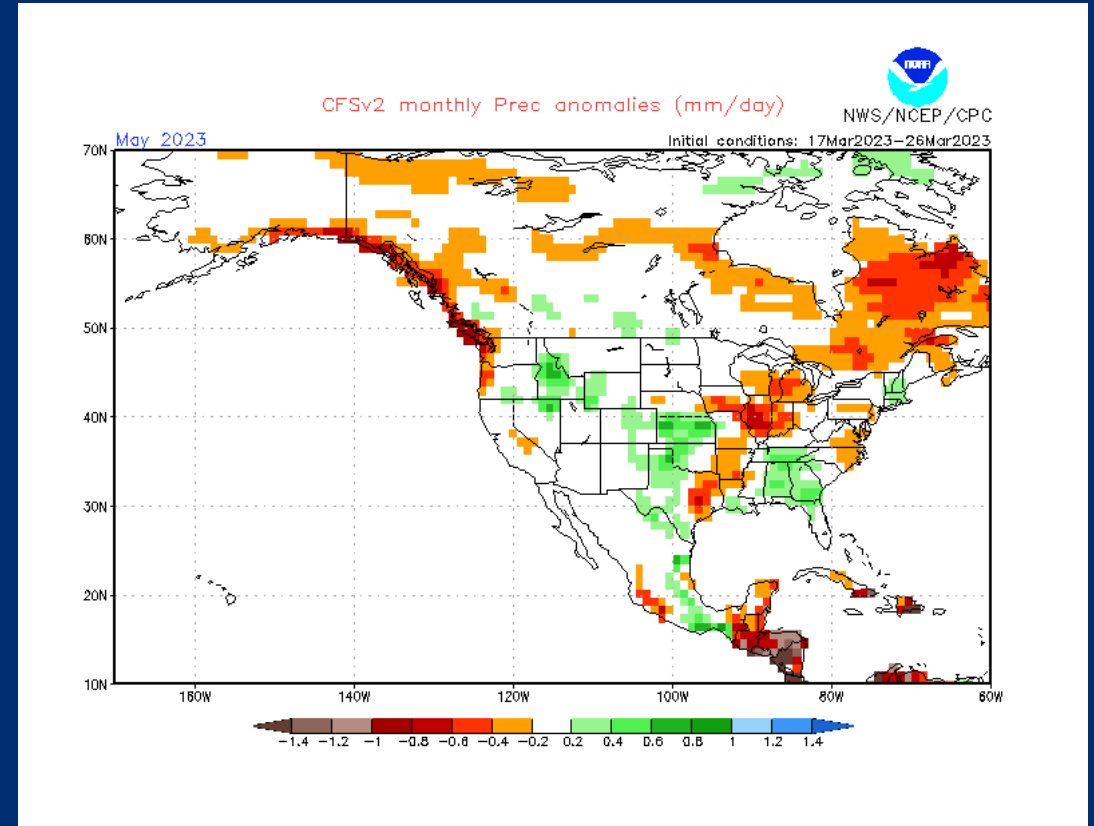
Forecast Model Jet Stream for Spring



Spring Rain Outlook – Climate Forecast System Model

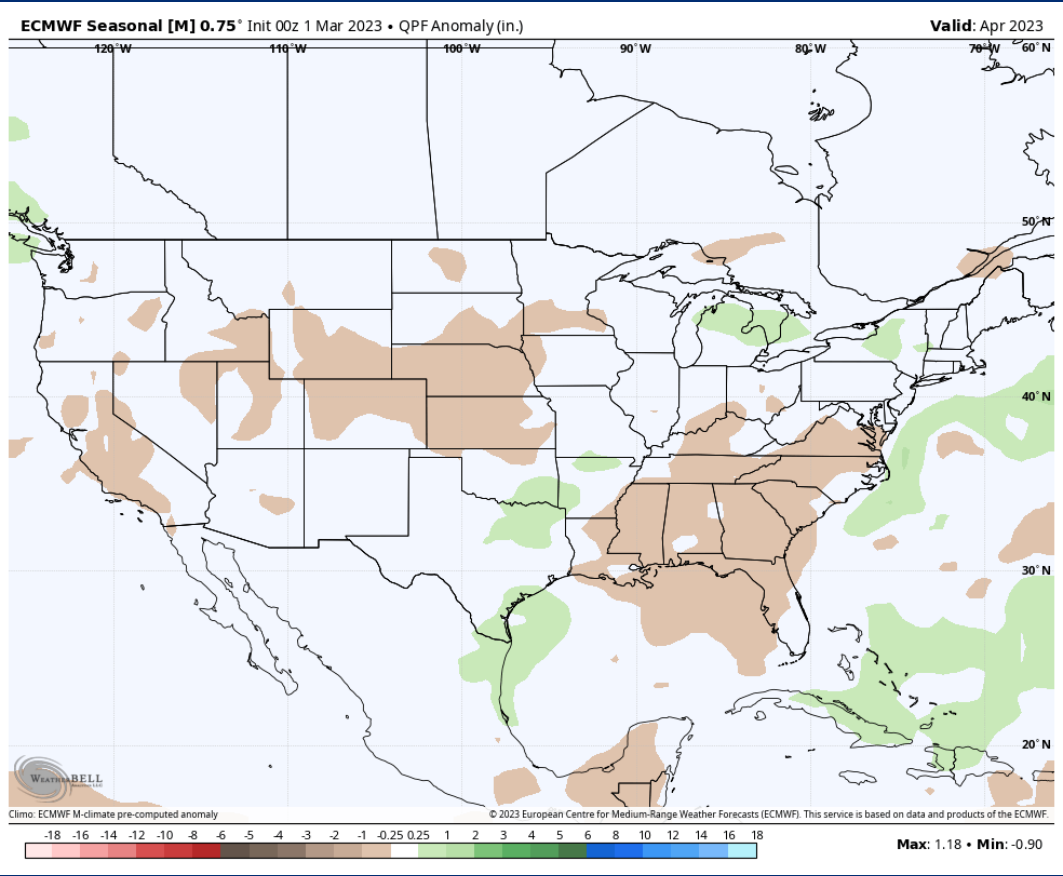


April

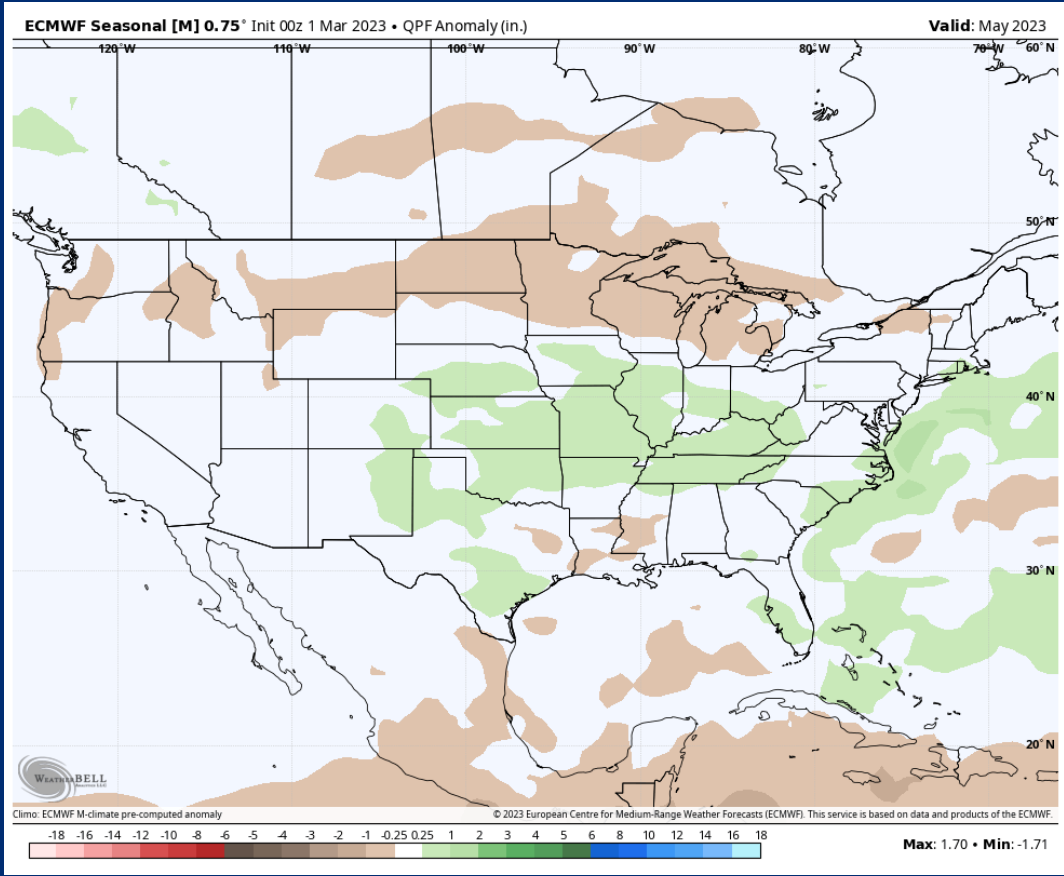


May

Spring Rain Outlook – European Model

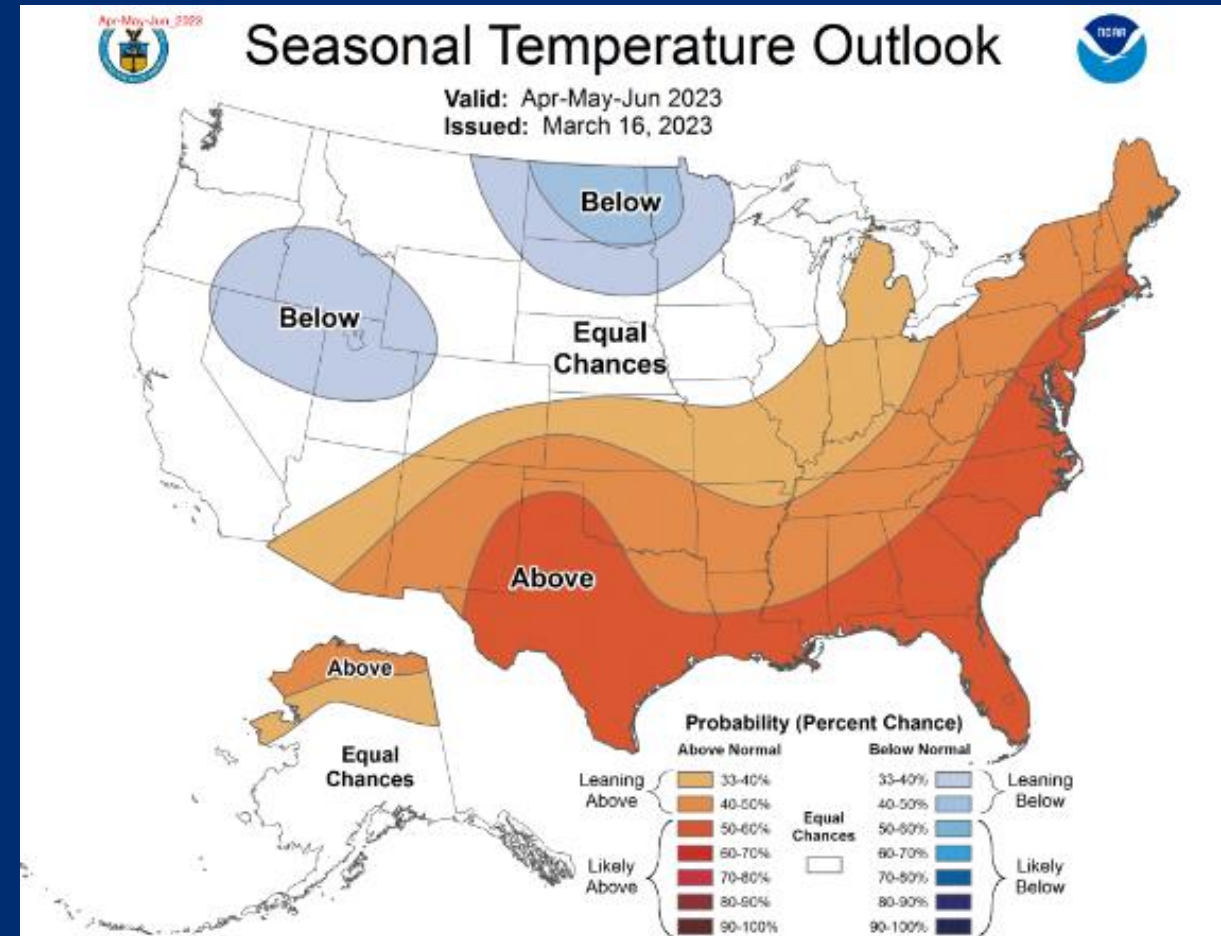
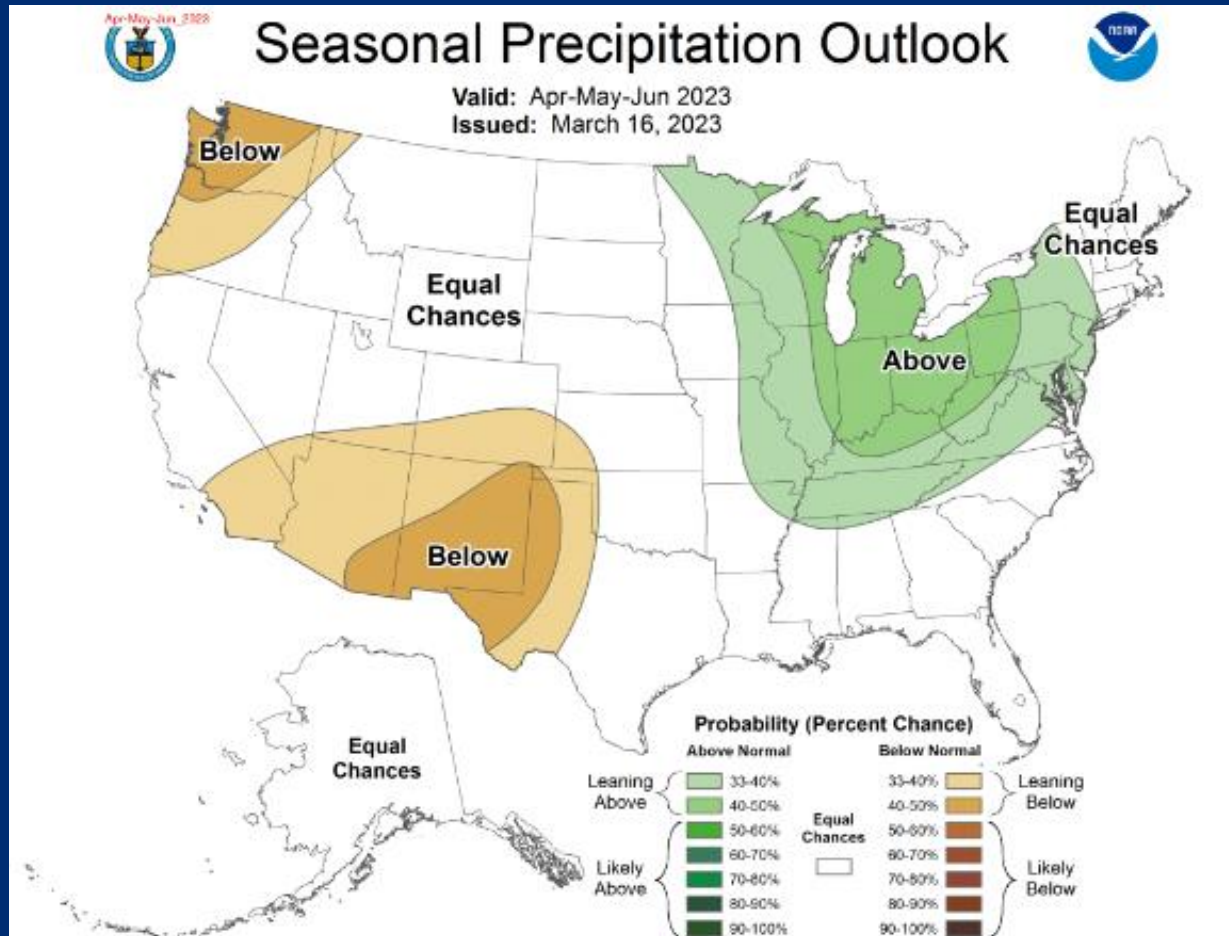


April

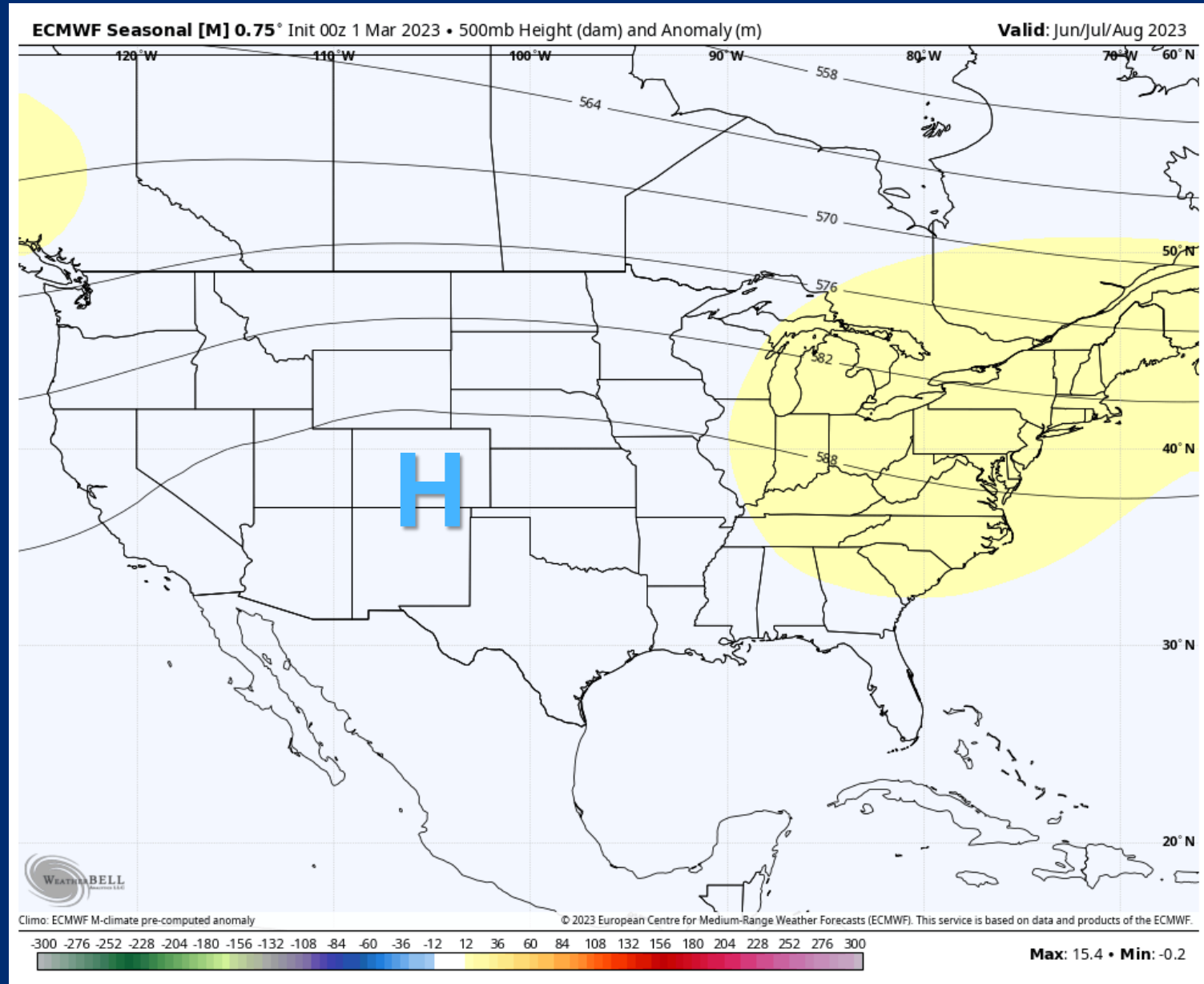


May

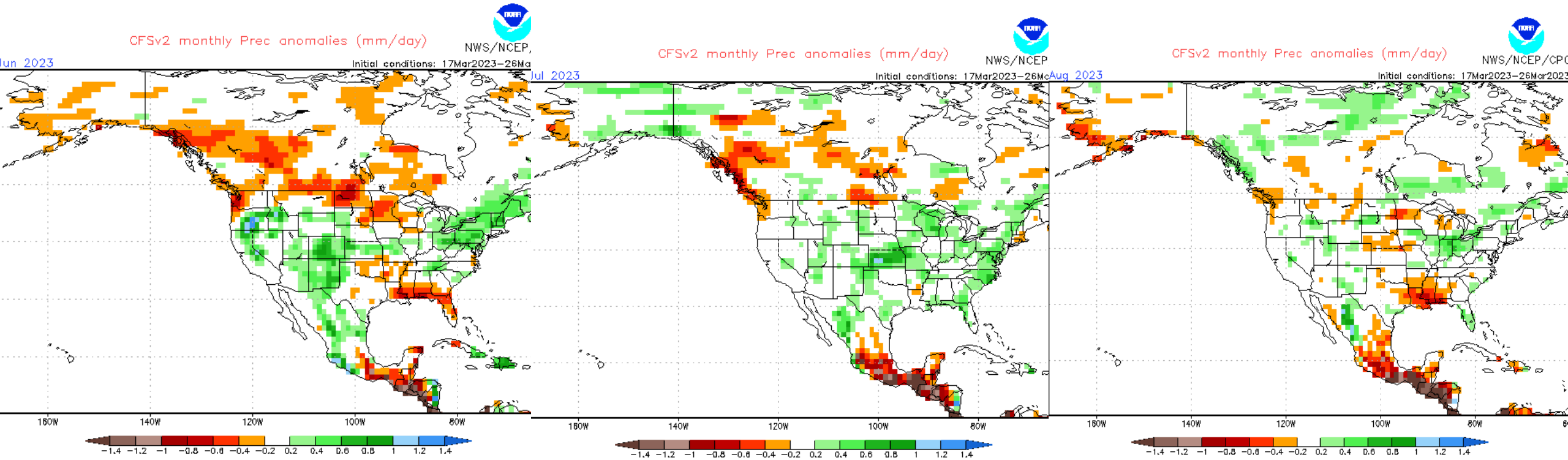
National Oceanic and Atmospheric Administration's Spring Outlook



Forecast Model Jet Stream for Summer



Summer Rain Outlook – CFS Model

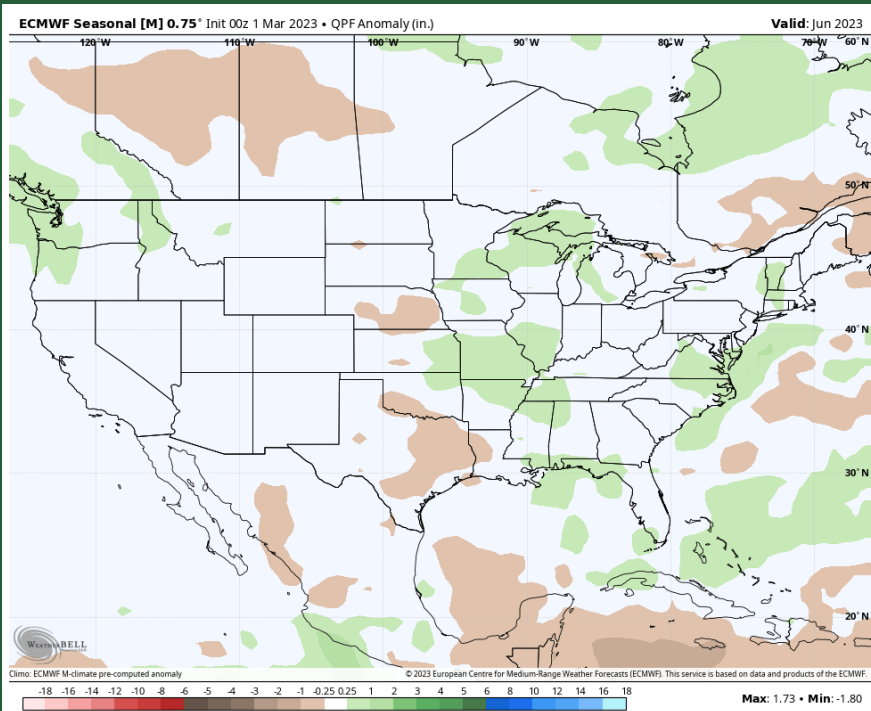


June

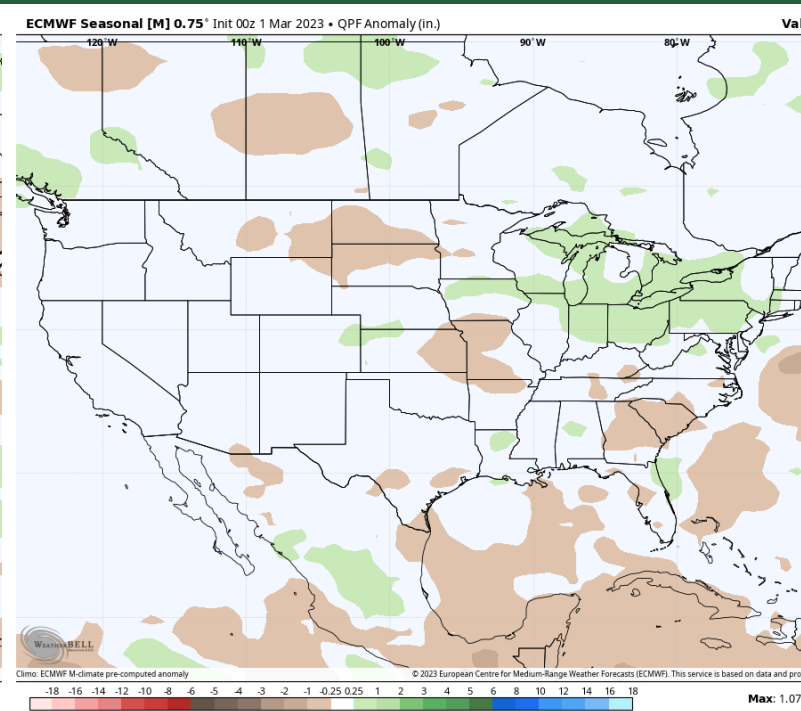
July

August

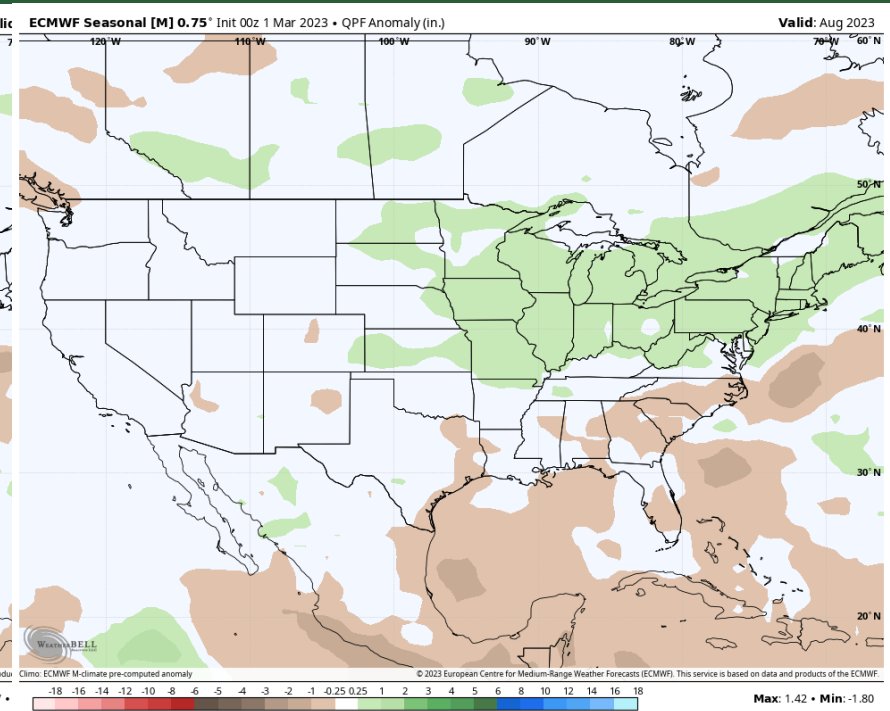
Summer Rain Outlook – European Model



June

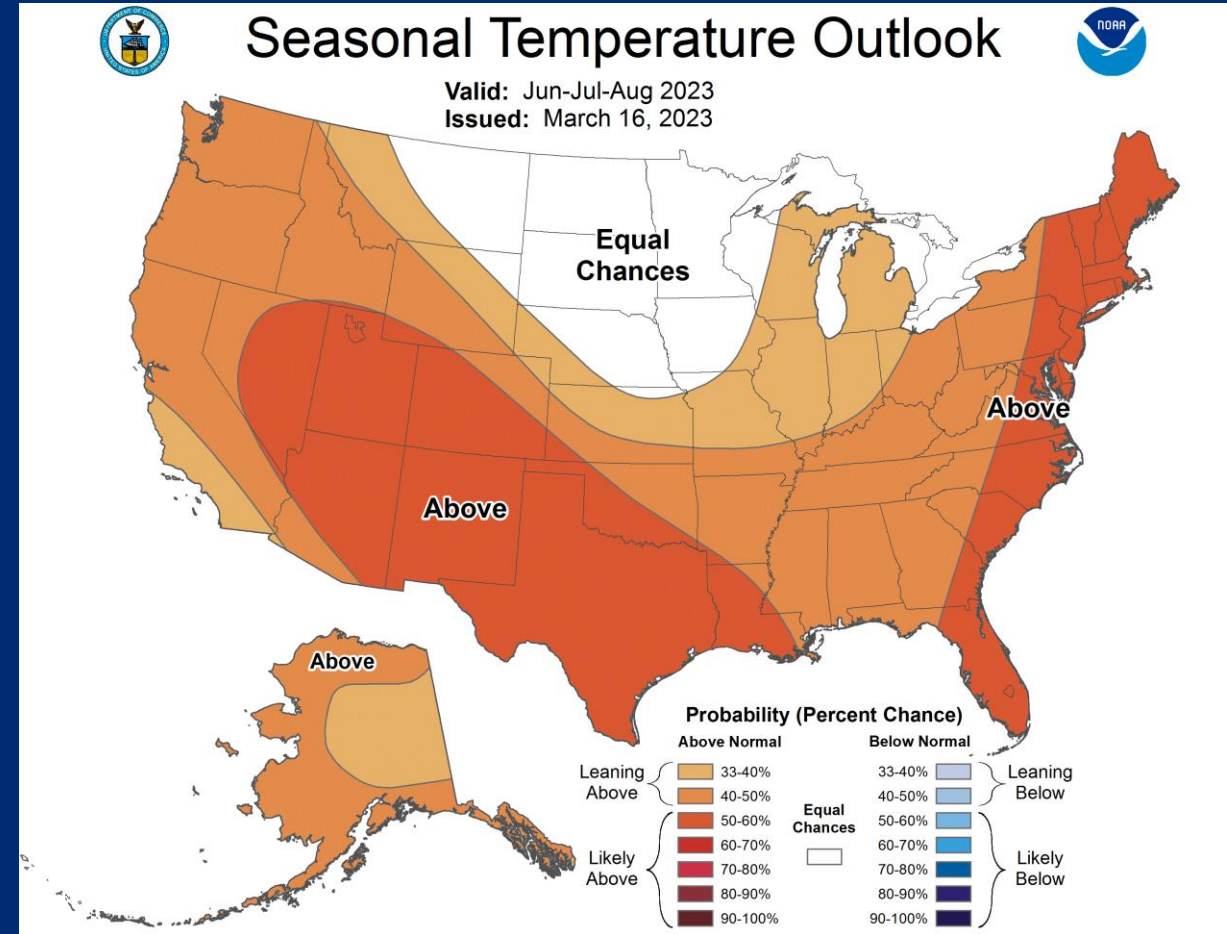
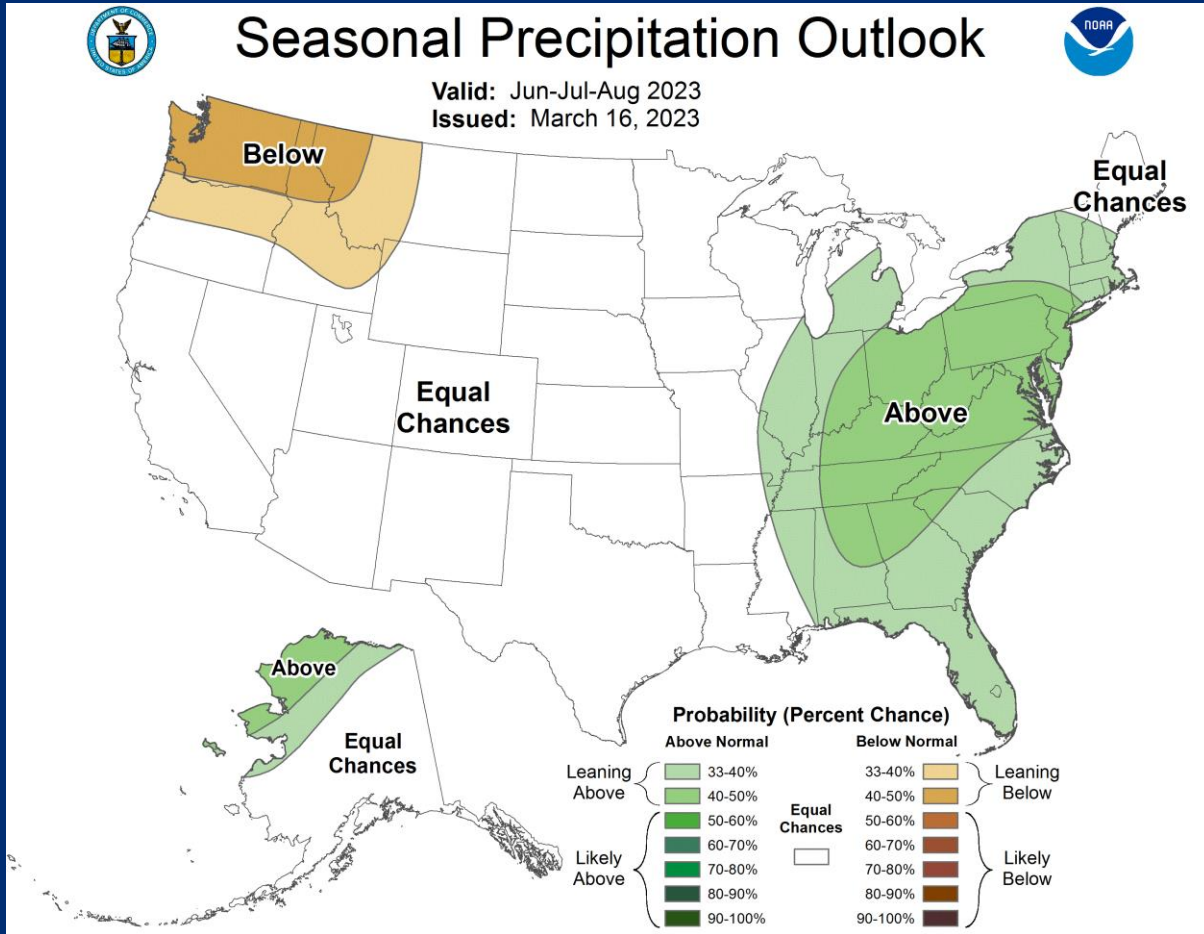


July

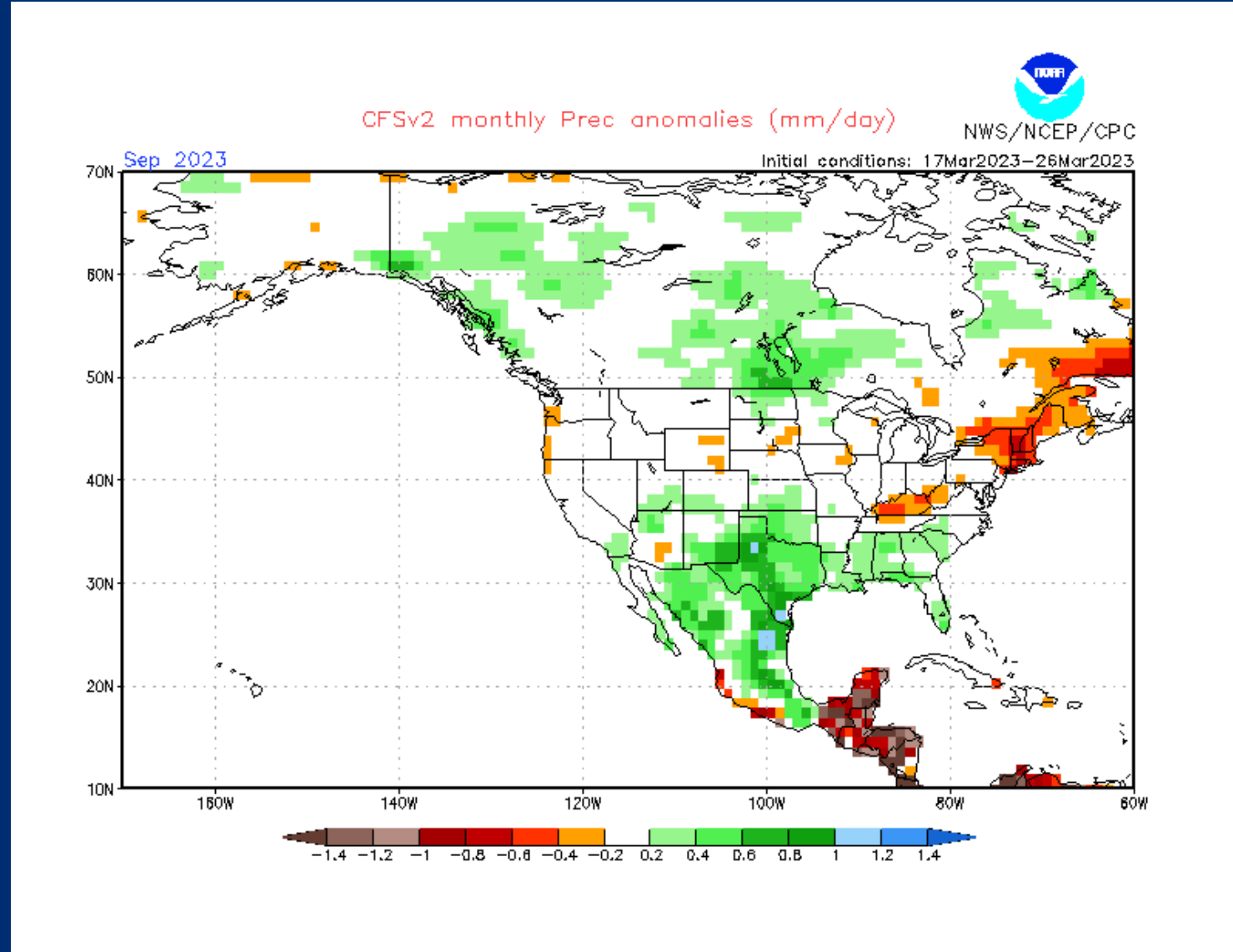


August

NOAA's Summer Outlook



CFS Rain Outlook for September



Spring Into Summer Outlook

- A neutral Pacific will be in place through spring and early summer
- It's not exactly clear when the atmosphere and jet stream will respond to the end of La Niña
- Slightly below-normal rain forecast for March
- Near-normal rainfall forecast April through June
- Summer 2023 is not expected to be as hot or as dry as last summer
- Strong odds for the development of El Niño by fall



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