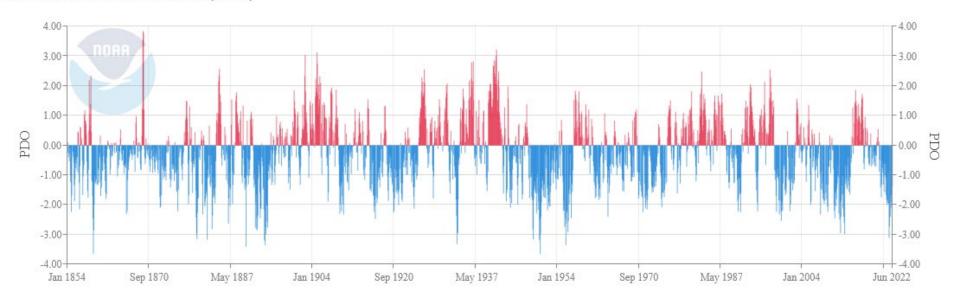
Pacific Decadal Oscillation (PDO) Past 168 Years

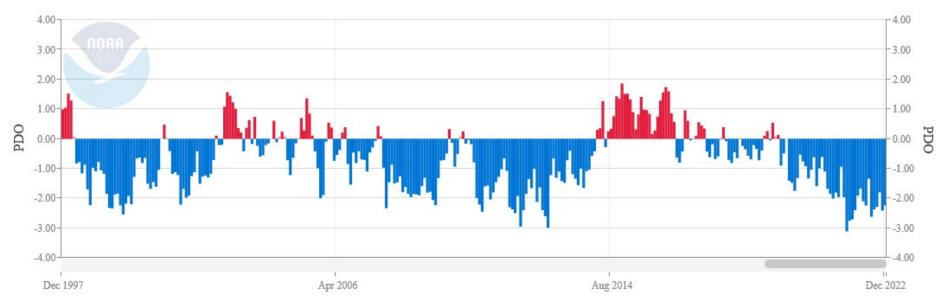
Pacific Decadal Oscillation (PDO)



Source: https://www.ncei.noaa.gov/pub/data/cmb/ersst/v5/index/ersst.v5.pdo.dat

Pacific Decadal Oscillation (PDO) Past 25 Years

Pacific Decadal Oscillation (PDO)



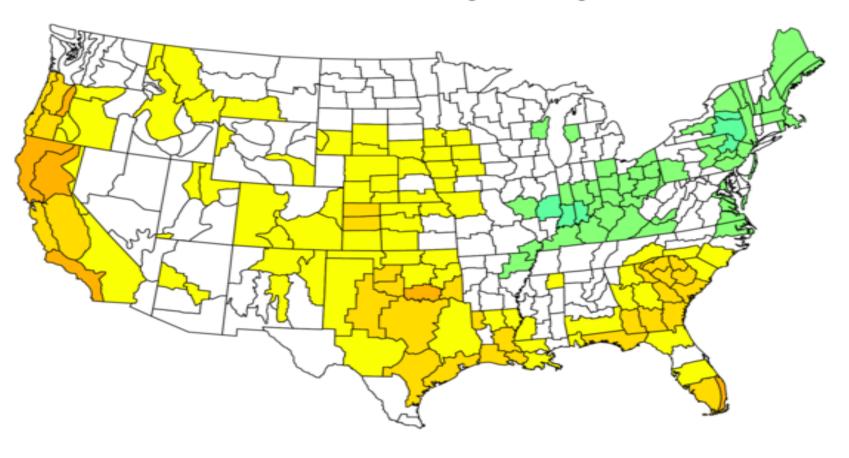
Source: https://www.ncei.noaa.gov/pub/data/cmb/ersst/v5/index/ersst.v5.pdo.dat

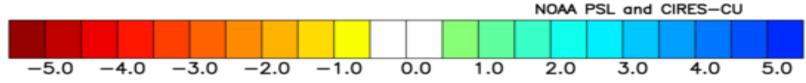
Precipitation Anomalies Past 25 Years

NOAA/NCEI Climate Division Composite Precipitation Anomalies (in)

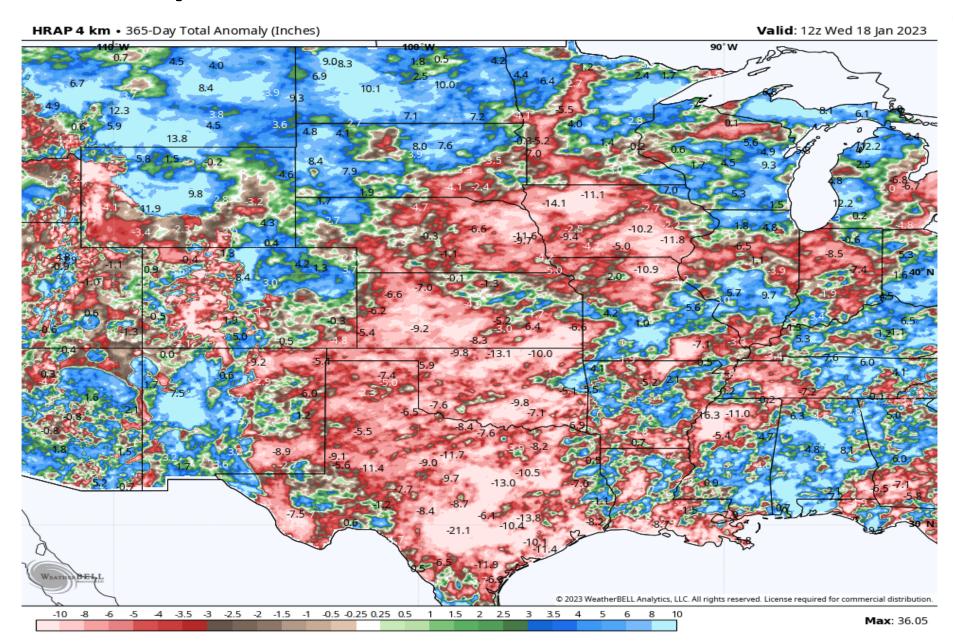
Jan to Dec 1998 to 2022

Versus 1991-2020 Longterm Average

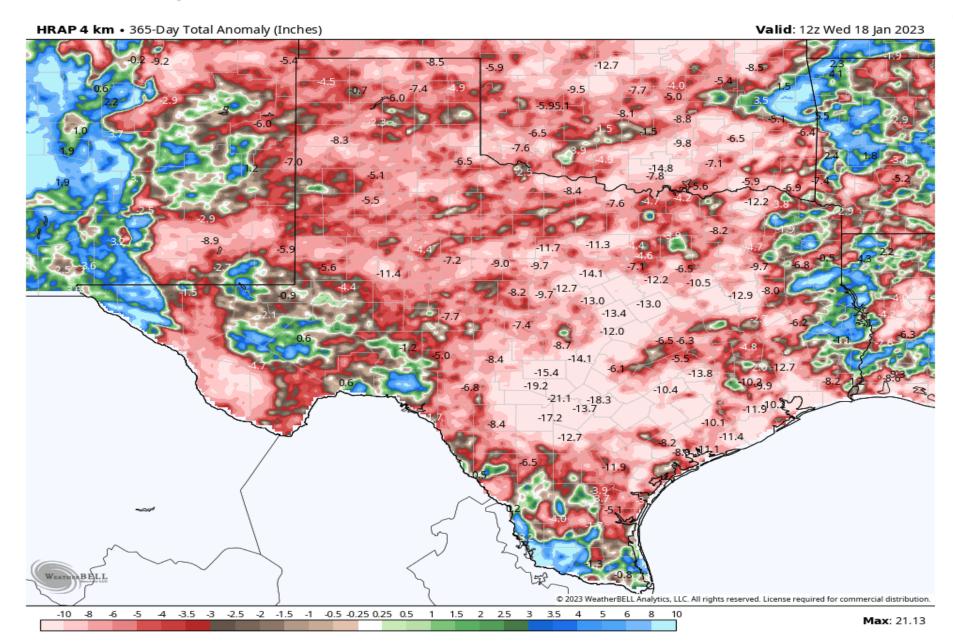




Precipitation Anomalies The Past Year...



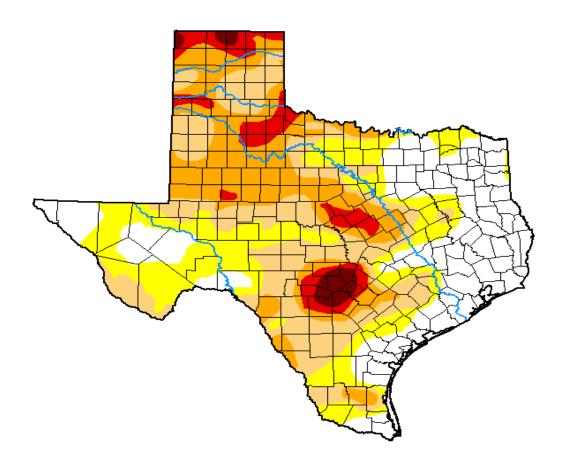
Precipitation Anomalies The Past Year...



Latest Drought Monitor

U.S. Drought Monitor

Texas



January 10, 2023

(Released Thursday, Jan. 12, 2023)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	26.83	73.17	51.66	27.31	7.70	1.80
Last Week 01-03-2023	28.84	71.16	49.90	26.60	7.41	1.60
3 Month's Ago 10-11-2022	5.75	94.25	72.82	43.58	15.25	1.48
Start of Calendar Year 01-03-2023	28.84	71.16	49.90	26.60	7.41	1.60
Start of Water Year 09-27-2022	14.96	85.04	61.36	31.61	8.82	1.06
One Year Ago 01-11-2022	3.21	96.79	82.48	62.44	21.91	0.00

Intensity:

None D2 Severe Drought
D0 Abnormally Dry D3 Extreme Drought
D1 Moderate Drought
D4 Exceptional Drought

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:

Richard Tinker CPC/NOAA/NWS/NCEP





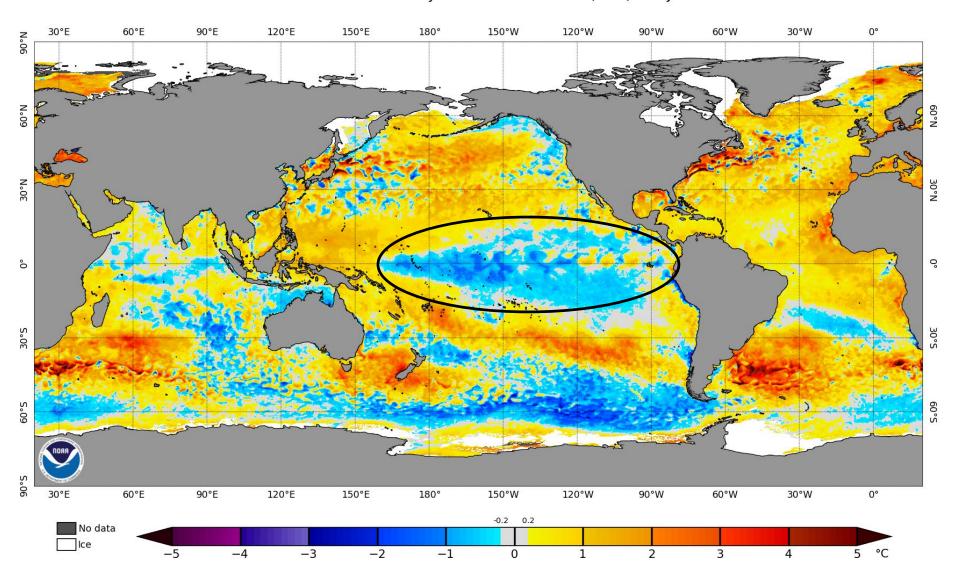




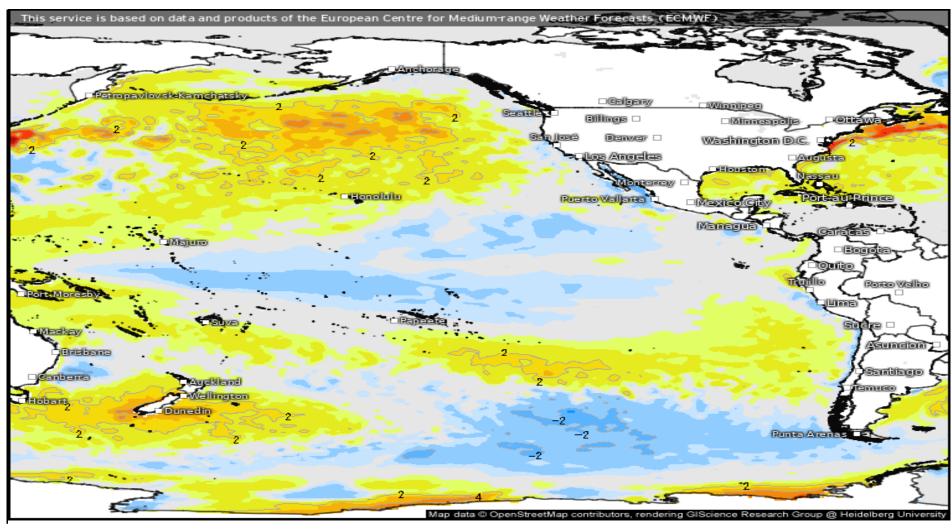
droughtmonitor.unl.edu

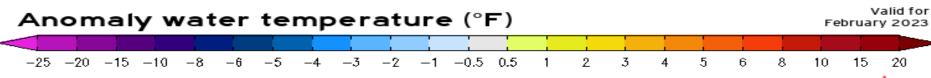
Current Sea Surface Temperature Anomalies

NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 17 Jan 2023



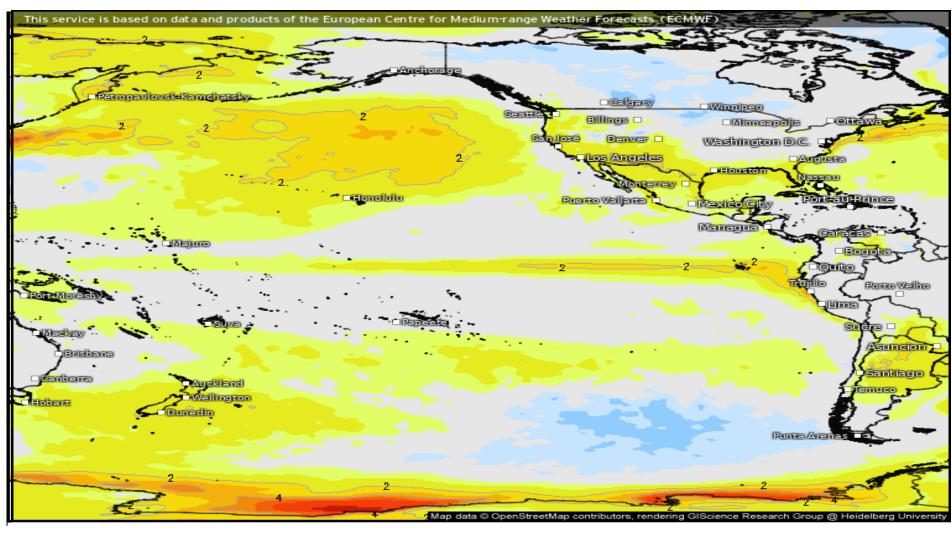
EURO Seasonal February SST Anomaly Forecast

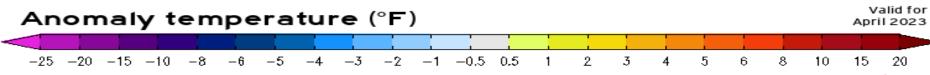




Model: ecmwe weather. us

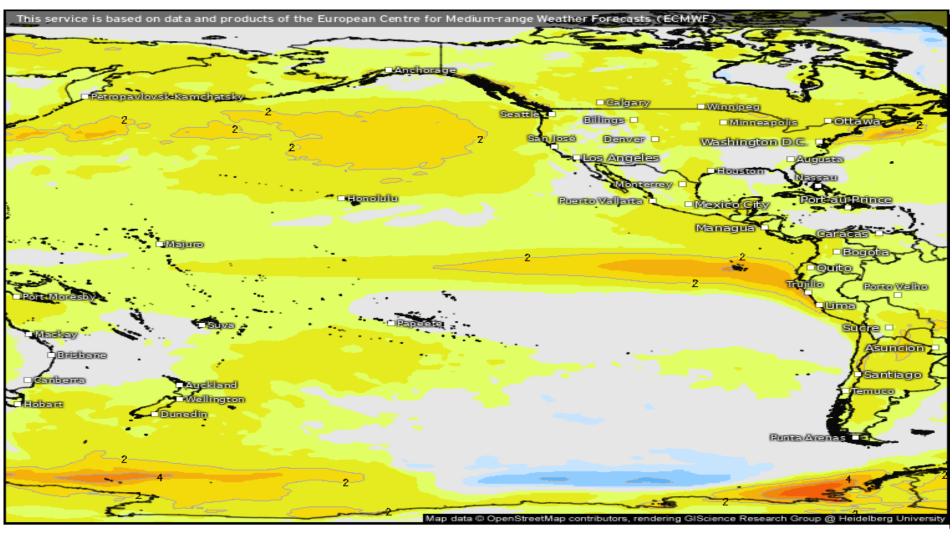
EURO Seasonal April SST Anomaly Forecast

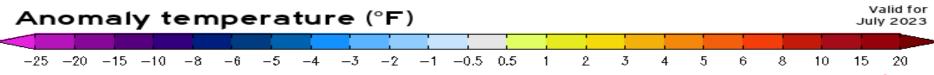




Model: weather. us

EURO Seasonal July SST Anomaly Forecast

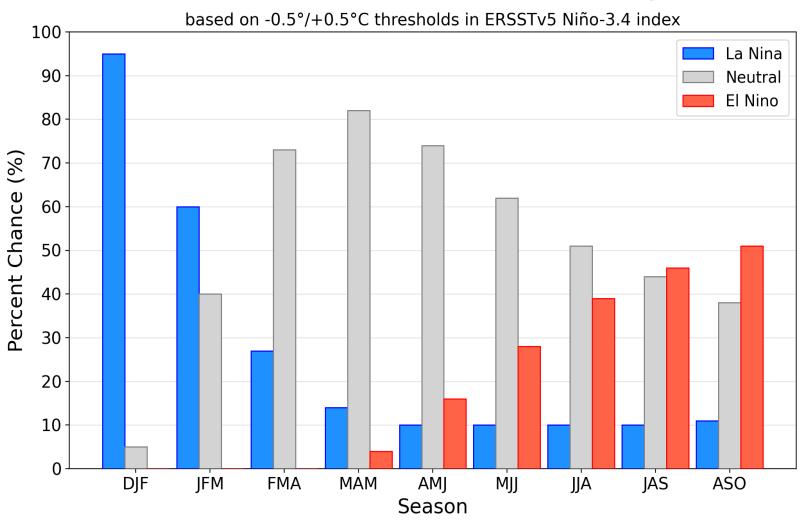




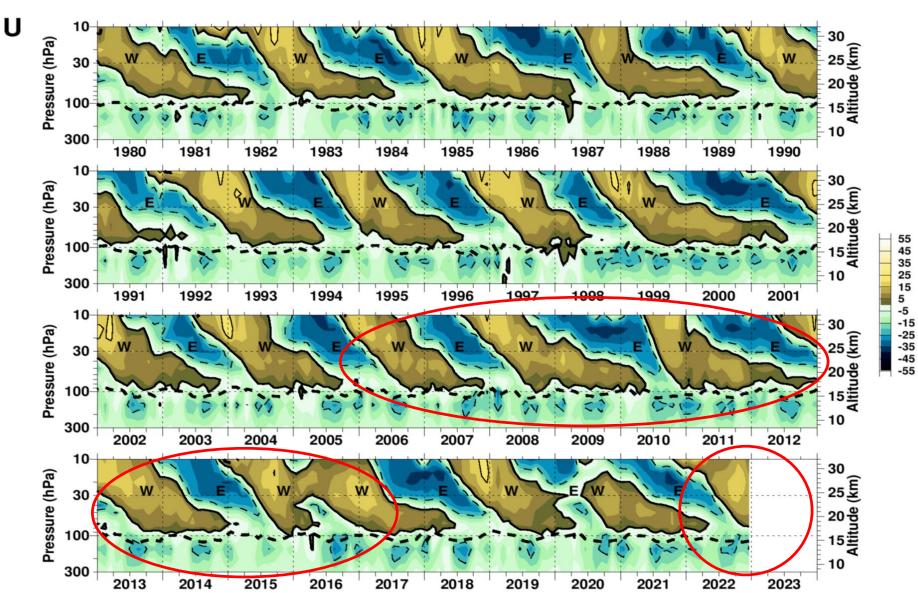
Model: weather. us

La Niña Transitions to El Niño?

Official NOAA CPC ENSO Probabilities (issued Jan. 2023)



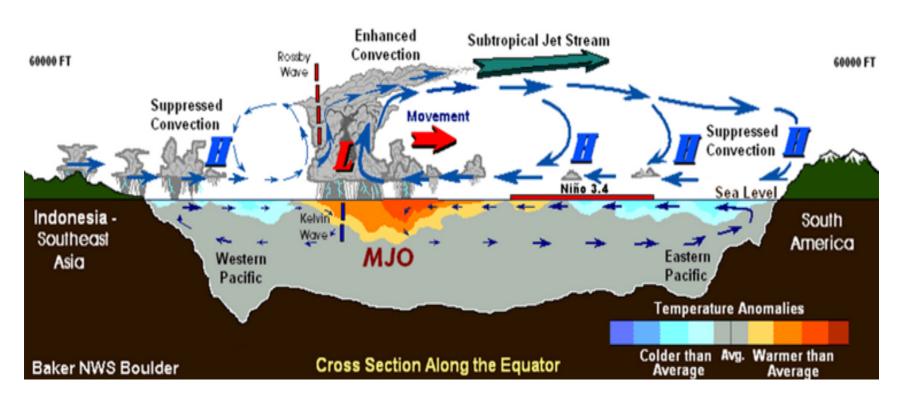
Westerly QBO Favors La Niña Ending ...



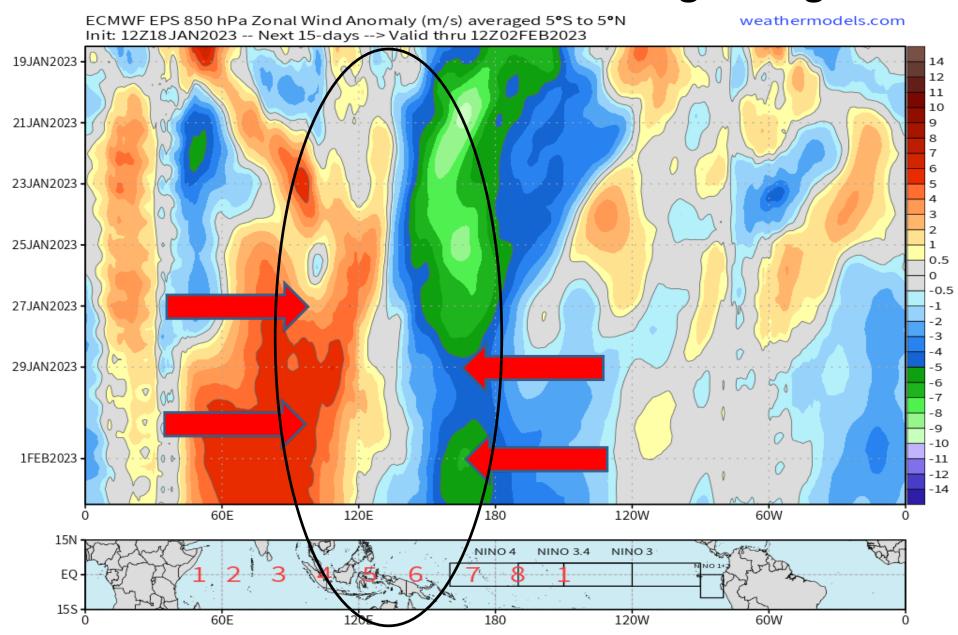
Wind Speed (m/s)

One of The Most Important Oscillations...

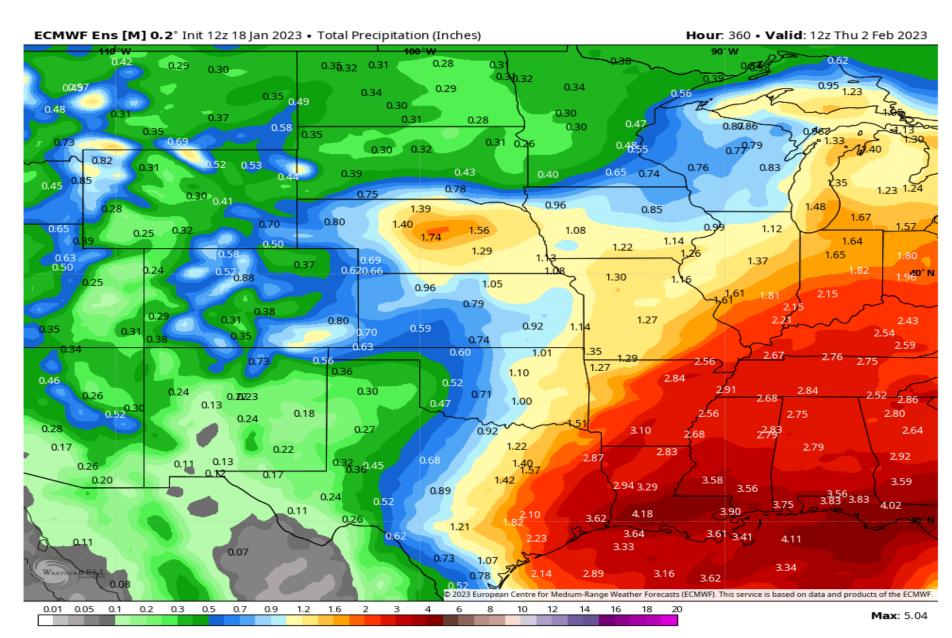
Madden-Julian Oscillation (MJO) in the Tropical Pacific Ocean



Easterlies Fade...Westerlies Getting Stronger!

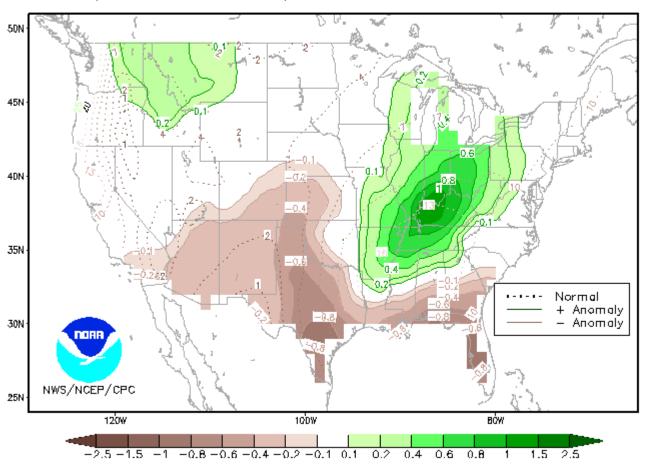


The Next Two Weeks...



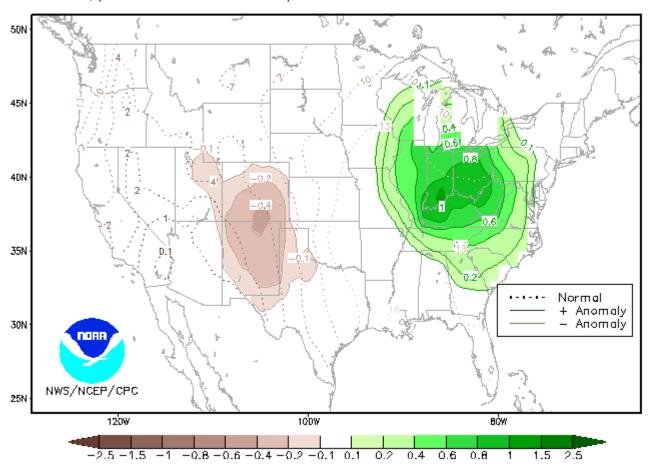
Climate Prediction Center Precipitation Anomaly Forecast

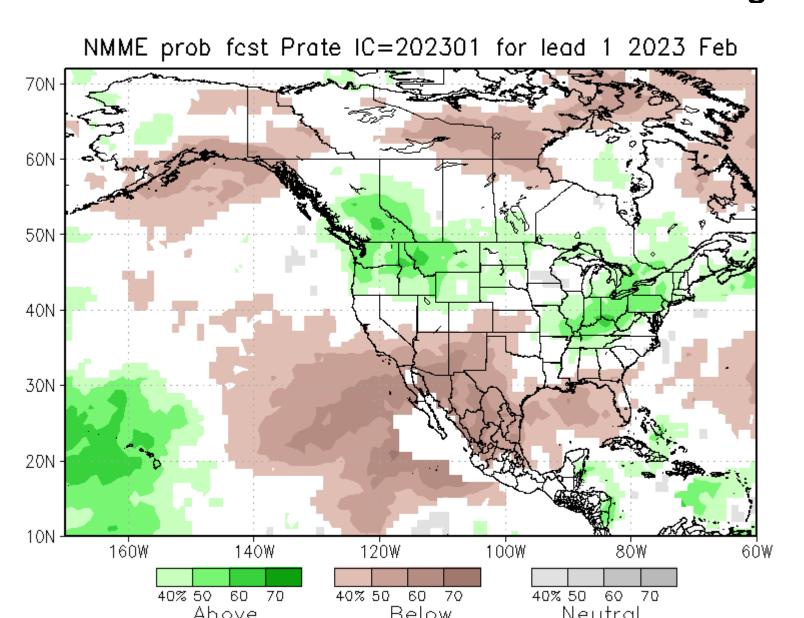
Anomaly (inches) of the Mid-value of the 3-Month Precipitation Outlook Distribution for FMA 2023 Dashed lines are the median 3-month precipitation (inches) based an observations from 1991-2020. Shaded areas indicate whether the anomaly of the mid-value is positive (green) or negative (brown) compared to the 1991-2020 average. Non-shaded regions indicate that the absolute value of the anomaly of the mid-value is less than 0.1. For a given location, the mid-value of the outlook may be found by adding the anomaly value to the 1991-2020 average. There is an equal 50-50 chance that actual conditions will be above or below the mid-value. Please note that this product is a limited representation of the official forecast, showing the anomaly of the mid-value, but not the width of the range of possibilities. For more comprehensive forecast information, please see our additional forecast products.

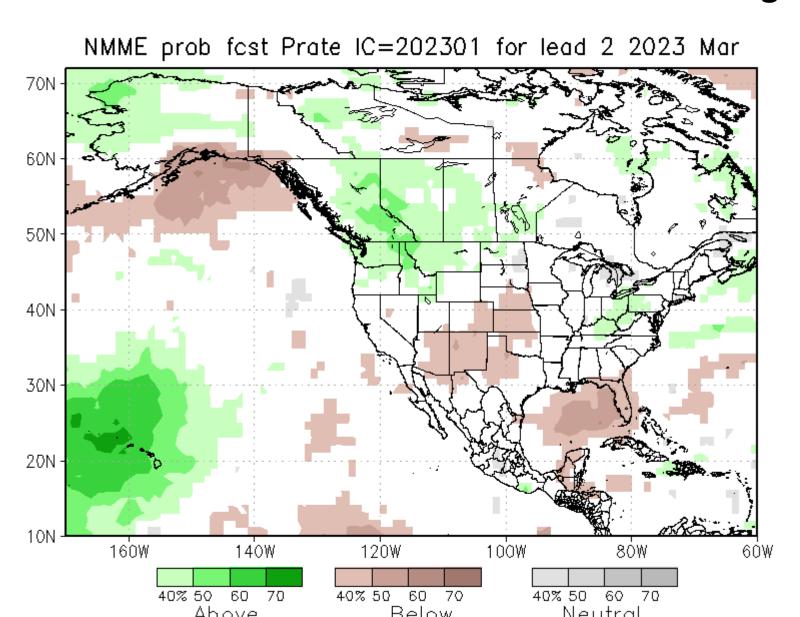


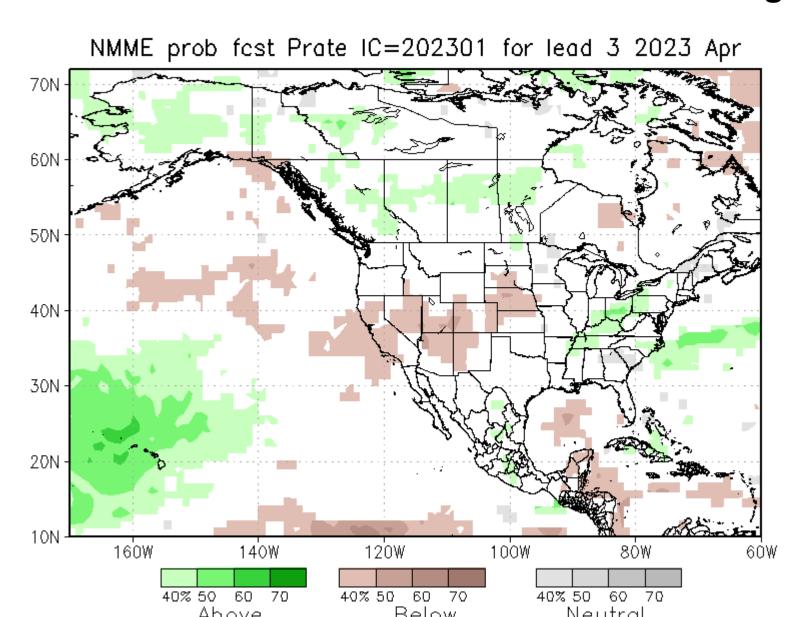
Climate Prediction Center Precipitation Anomaly Forecast

Anomaly (inches) of the Mid-value of the 3-Manth Precipitation Outlook Distribution for AMJ 2023 Dashed lines are the median 3-month precipitation (inches) based an observations from 1991-2020. Shaded areas indicate whether the anomaly of the mid-value is positive (green) or negative (brown) compared to the 1991-2020 average. Non-shaded regions indicate that the absolute value of the anomaly of the mid-value is less than 0.1. For a given location, the mid-value of the outlook may be found by adding the anomaly value to the 1991-2020 average. There is an equal 50-50 chance that actual conditions will be above or below the mid-value. Please note that this product is a limited representation of the official forecast, showing the anomaly of the mid-value, but not the width of the range of possibilities. For more comprehensive forecast information, please see our additional forecast products.

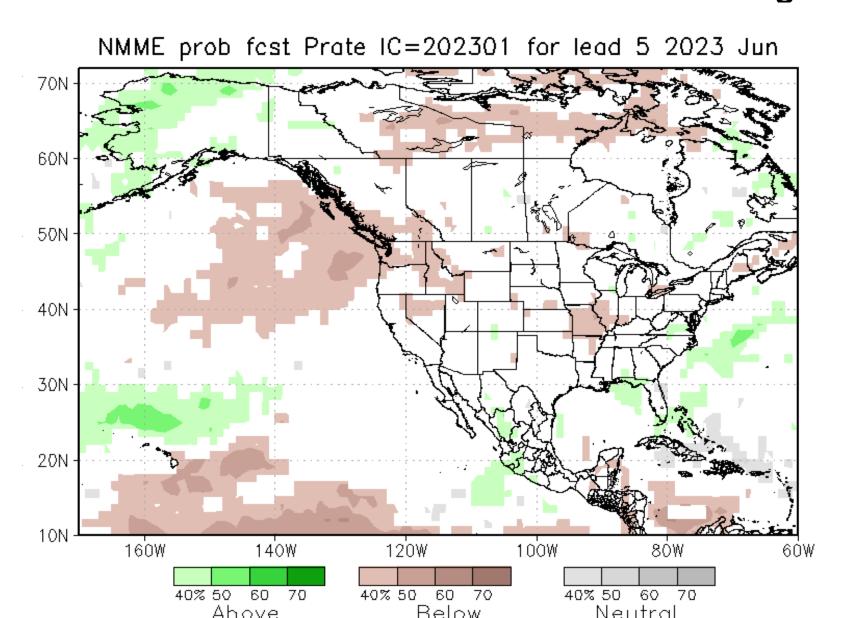




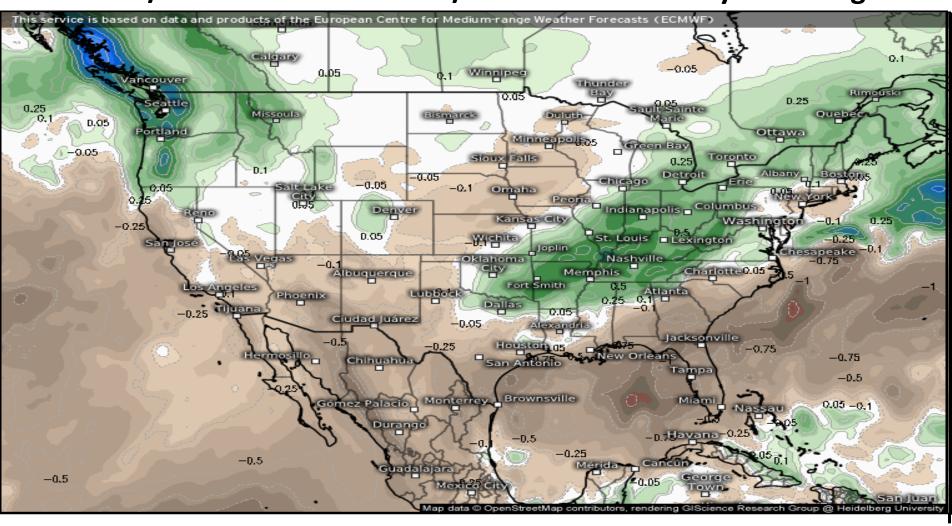




NMME prob fcst Prate IC=202301 for lead 4 2023 May 70N 60N 50N 40N 30N 20N 10N 160W 100W 8ÓW 140W 120W 60W 60 70 40% 50 60 40% 50 60 70 40% 50 70 Above Below Neutral



NMME prob fcst Prate IC=202301 for lead 6 2023 Jul 70N 60N 50N 40N 30N 20N 10N 100W 160W 140W 120W 80W 60W 40% 50 60 40% 50 60 70 40% 50 60 70 Above Below Neutral



0.05

0.4

0.8



-0.6

-0.3

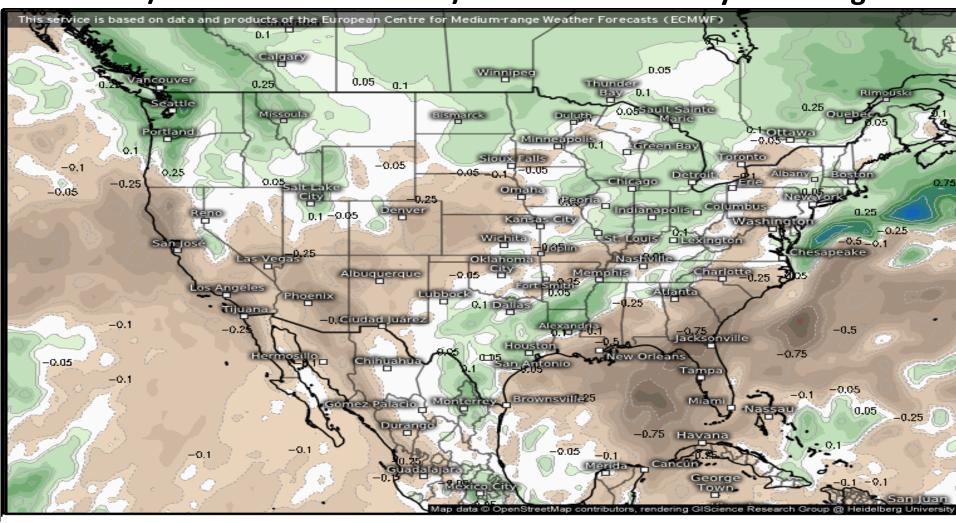
Valid for February 2023 2.4 3.2

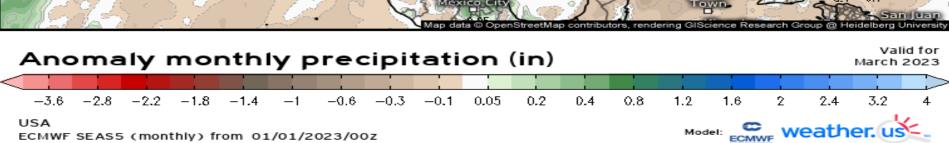
-1.8

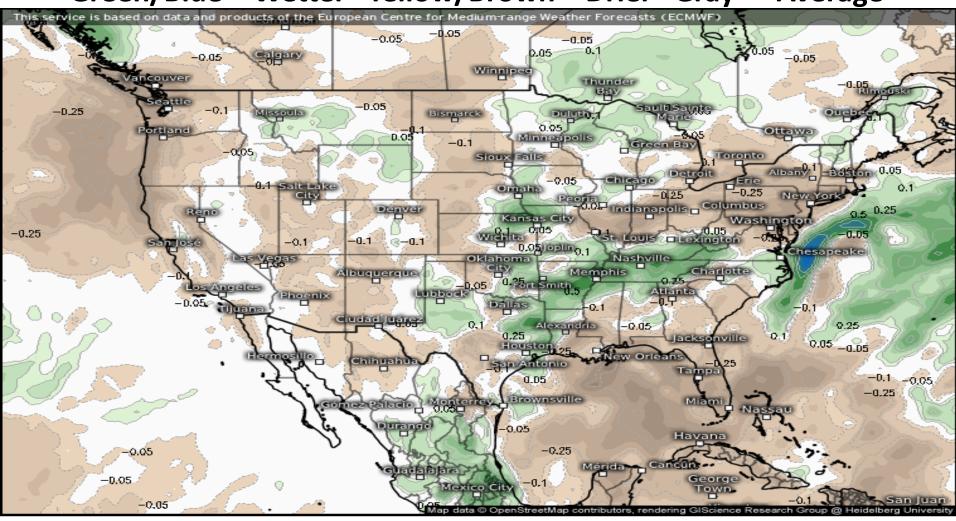
-1.4

-2.2

-2.8









-0.6

-0.3

-0.1

Valid for April 2023 2.4 3.2

0.2

0.4

0.05

1.6

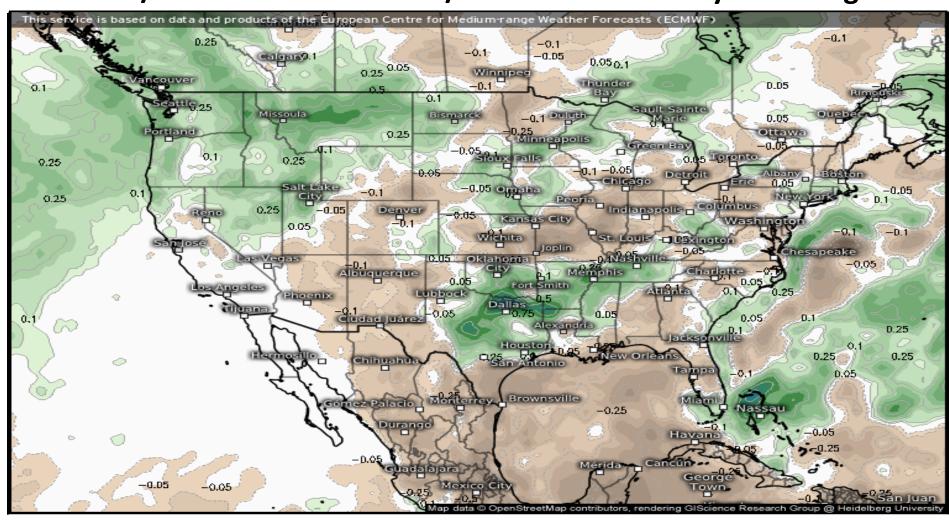
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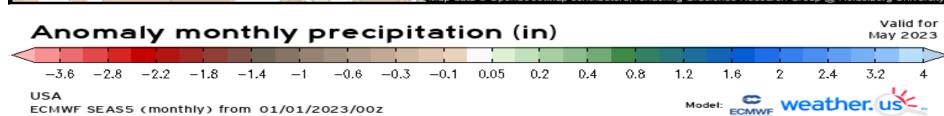
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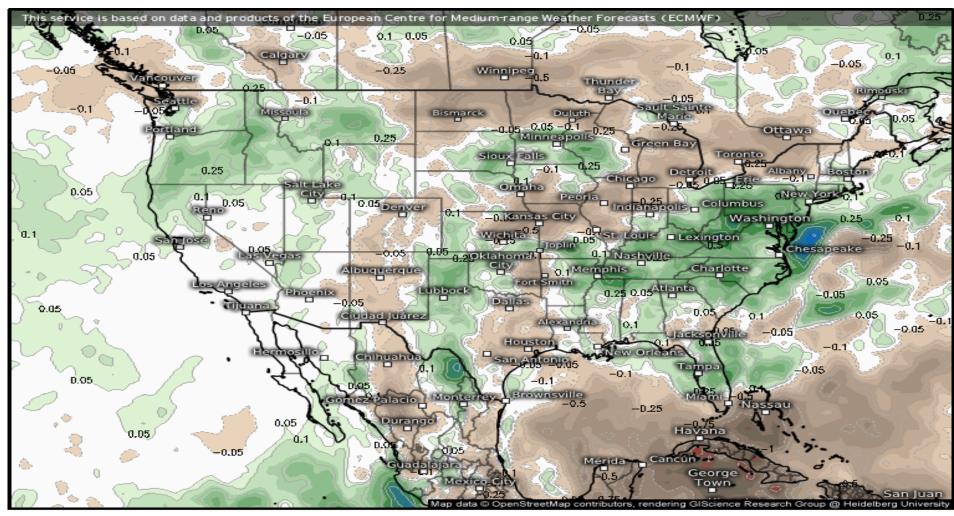
-1.8

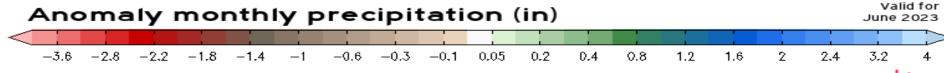
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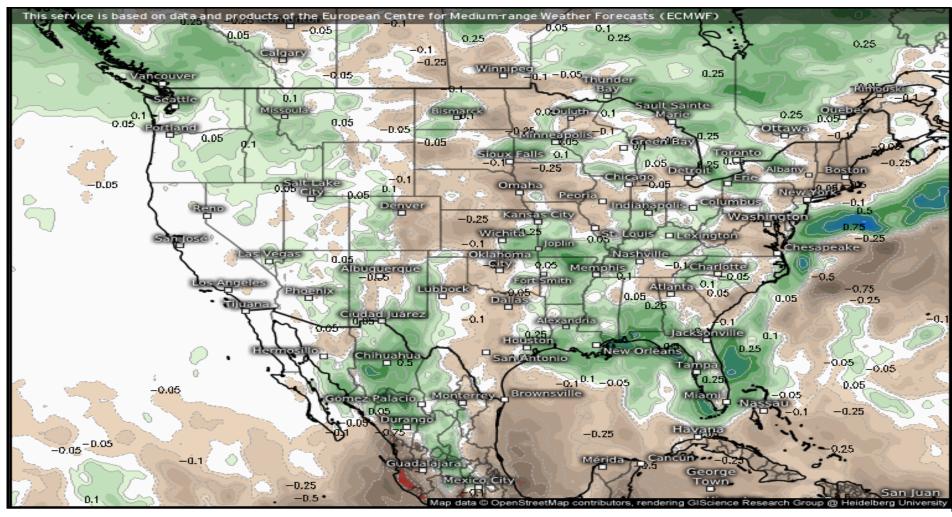
-2.2

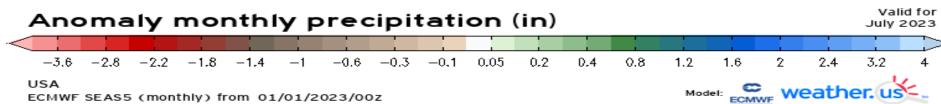






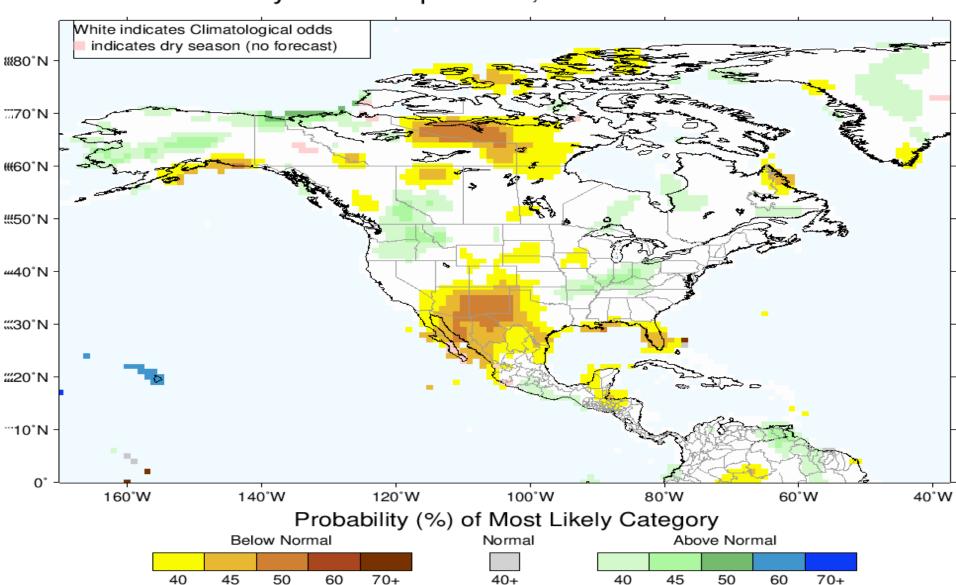






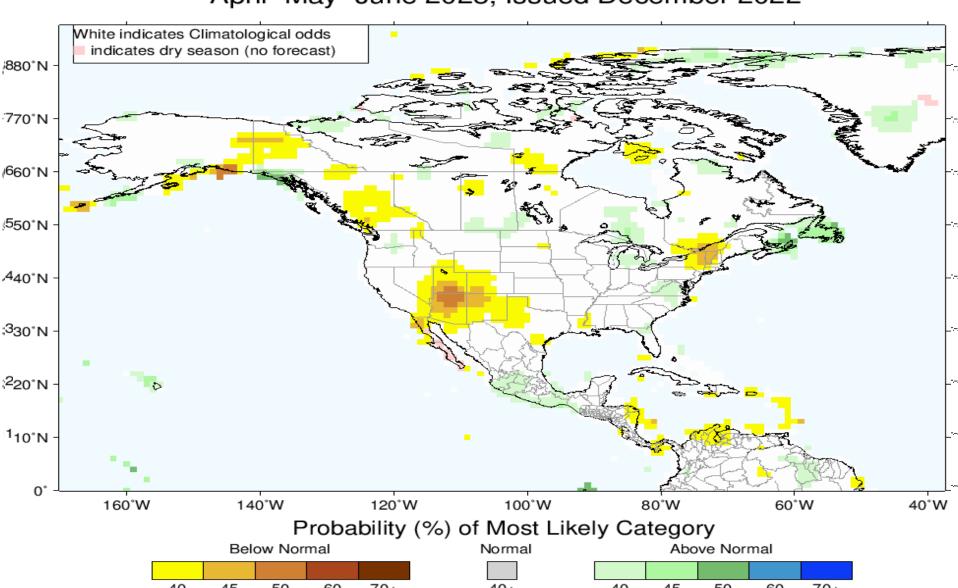
Green/Blue = Wetter Yellow/Brown = Drier White = "Average"

IRI Multi-Model Probability Forecast for Precipitation for February-March-April 2023, Issued December 2022



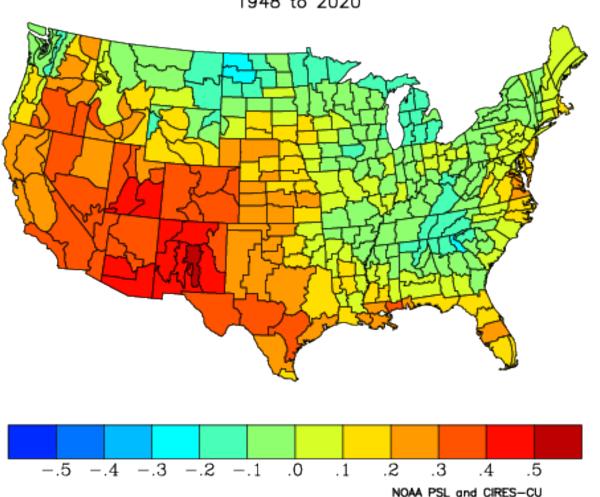
Green/Blue = Wetter Yellow/Brown = Drier White = "Average"

IRI Multi-Model Probability Forecast for Precipitation for April-May-June 2023, Issued December 2022



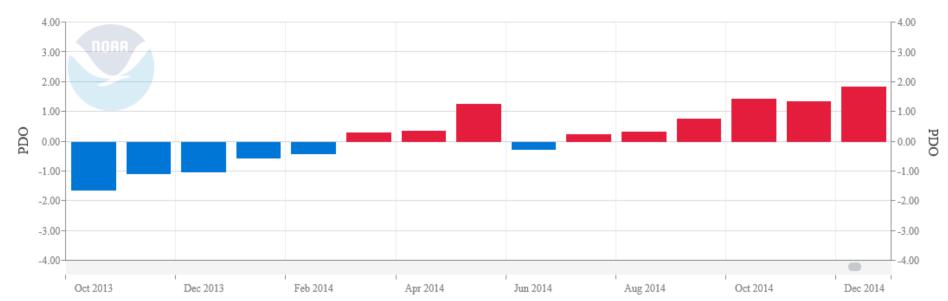
Historic Negative PDO Precipitation Anomalies... Yellow/Brown=Drier Green/Blue=Wetter

Correlation Precipitation Feb to Jun With Feb to Jun PDO 1948 to 2020



Pacific Decadal Oscillation (PDO) Oct 2013 – Dec 2014

Pacific Decadal Oscillation (PDO)



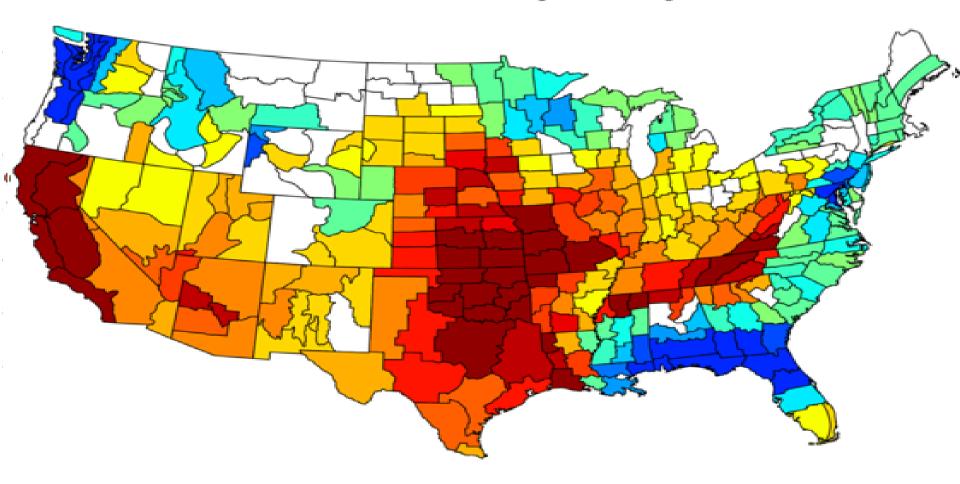
Source: https://www.ncei.noaa.gov/pub/data/cmb/ersst/v5/index/ersst.v5.pdo.dat

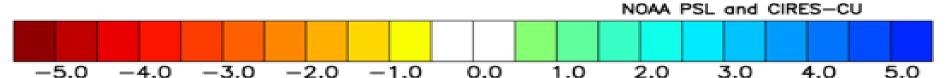
Potential Analog Year for The PDO Transition...

NOAA/NCEI Climate Division Precipitation Anomalies (in)

Jan to May 2014

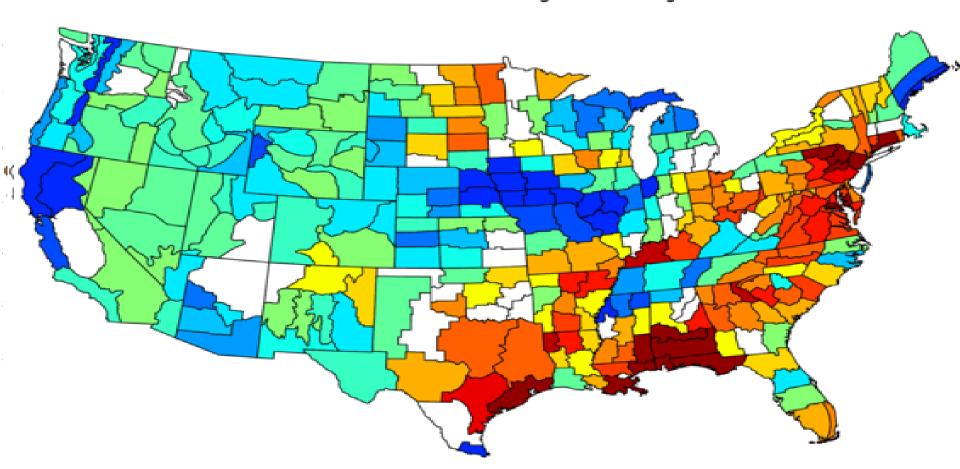
Versus 1991-2020 Longterm Average





Potential Analog Year for The PDO Transition...

NOAA/NCEI Climate Division Precipitation Anomalies (in)
Jun to Dec 2014
Versus 1991-2020 Longterm Average



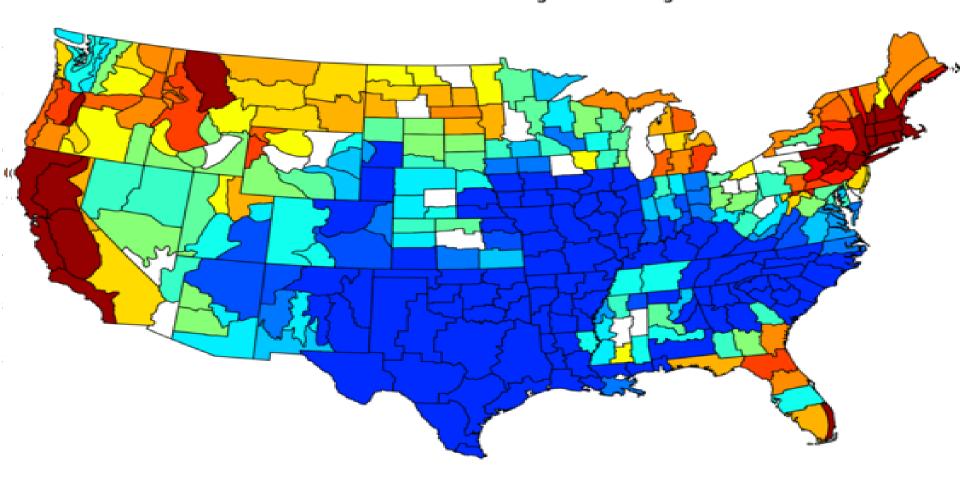
NOAA PSL and CIRES-CU

Last El Niño Followed Prolonged La Niña...

NOAA/NCEI Climate Division Precipitation Anomalies (in)

Jan to Dec 2015

Versus 1991-2020 Longterm Average



NOAA PSL and CIRES-CU

In Summary...

- 1) La Niña going away is a GOOD thing!!!
- 2) PDO still quite negative, but should become less negative in time. Possible phase shift is important in facilitating long term pattern change.
- 3) El Niño development later this year is not a certainty, but certainly seems likely. Doesn't necessarily imply immediate relief...see PDO
- 4) If nothing else, the pattern that has continuously caused and reinforced drought will loosen its grip on us. As always, it is VERY important to capitalize on the moisture we receive.
- 5) CAUTIOUS OPTIMISM!

BrianBledsoeWx, LLC

Making The Weather Work for You



Brian Bledsoe

Chief Meteorologist / Climatologist

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