

# WEEKLY DELEK ENERGY WEATHER DISCUSSION

Climate Impact Company, Inc.

Tuesday January 30, 2024

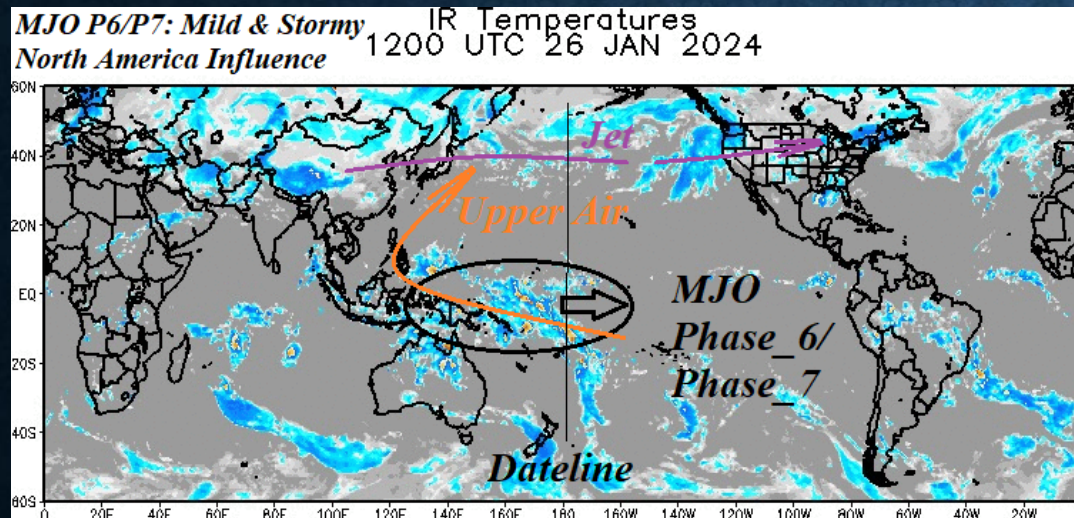
# TODAY'S SUMMARY

- Looking at February temperature.
  - Hot start to the month; climate pattern very supportive.
  - Trouble may be brewing mid-to-late month.
- Atmospheric rivers.
  - West and South U.S. (ERCOT) storm track.
  - U.S. soils getting wetter.
- A look at U.S. spring and summer 2024 climate outlooks.
- Delek Energy Retail: Warmer than normal, wet in Texas.
- International: China cold, Argentina heat, Europe is mild but will turn cold. Panama stays dry.

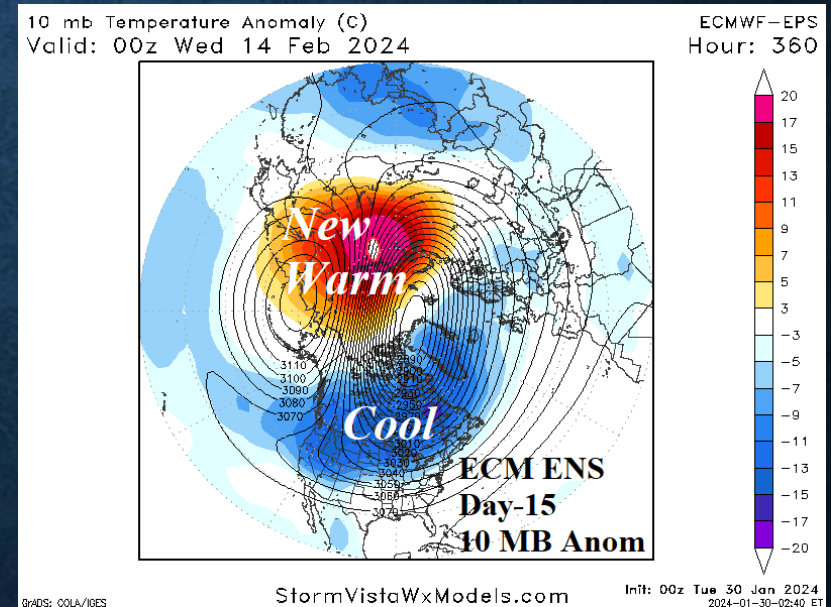


# WARM CLIMATE INFLUENCES AS FEBRUARY ARRIVES

Convection phase of the Madden Julian oscillation stalls near Dateline.

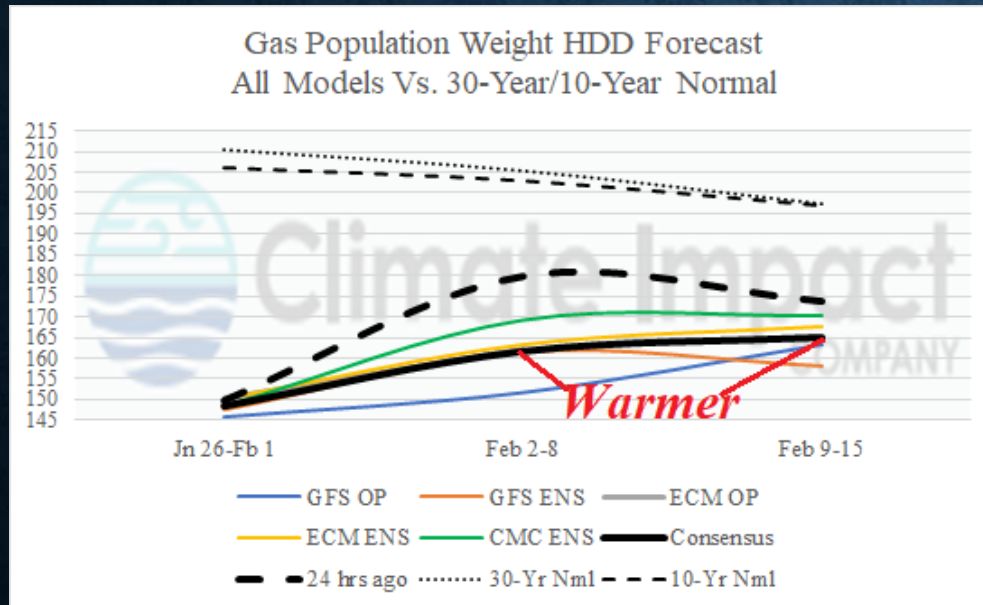


Cold stratosphere causes a warm North America climate (note new warming).

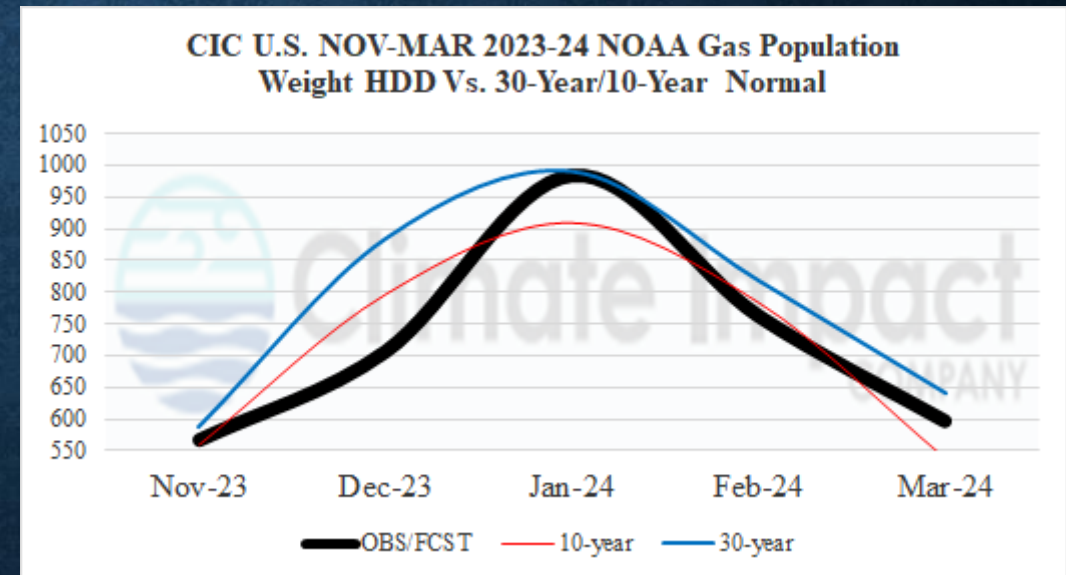


# HEATING DEGREE DAY FORECASTS REFLECT THE WARMTH

Operational models were warm, trend warmer well into February.



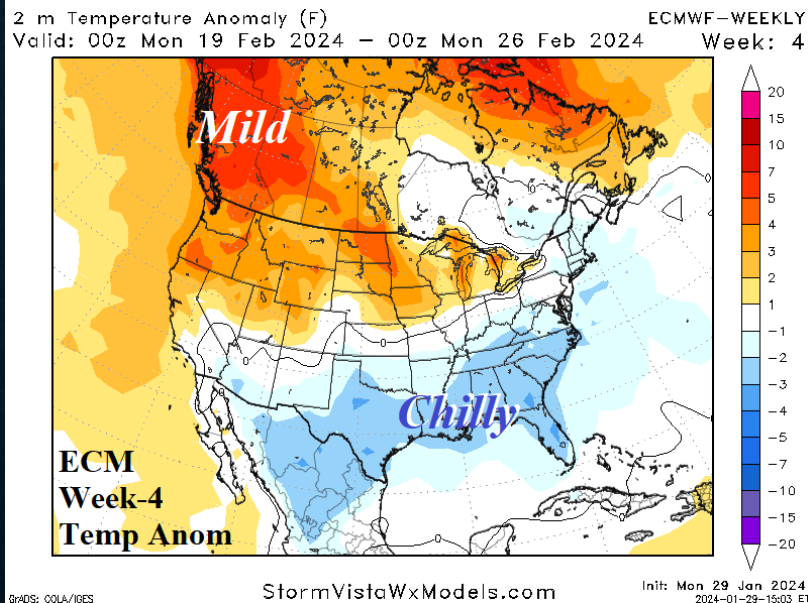
After a moderate cold spike in January, warmer than 10-year in FEB.



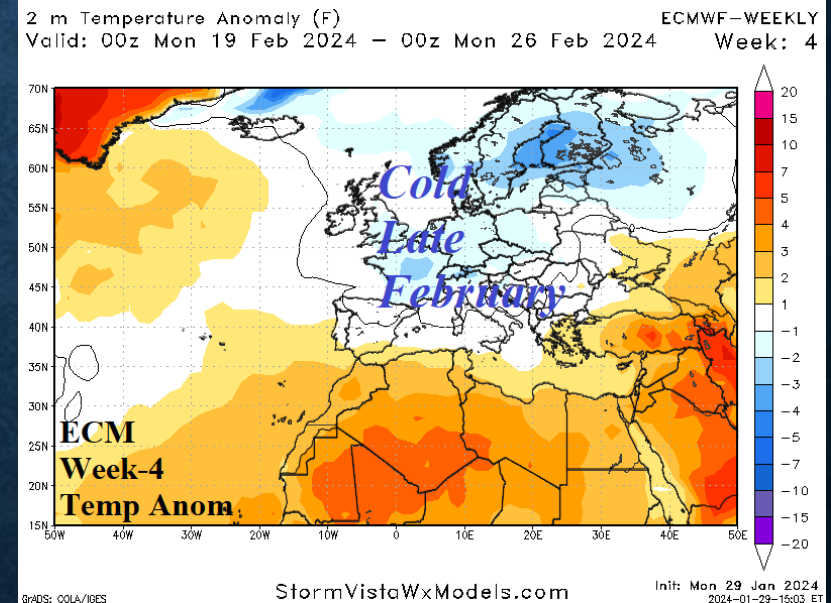


# TROUBLE IS BREWING...COLDER LATER FEBRUARY

General climate wants to go colder  
South and East U.S. 2<sup>nd</sup> half of FEB.

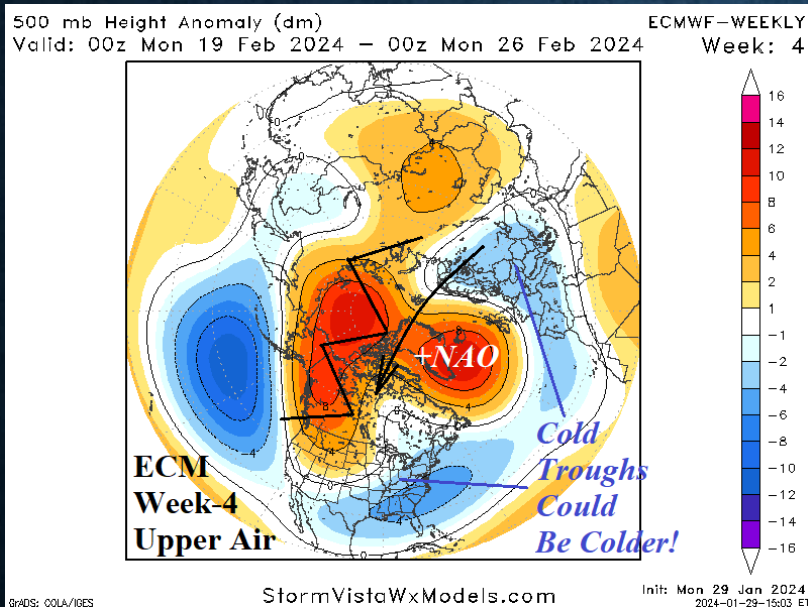


Same in Europe...Shifting colder.

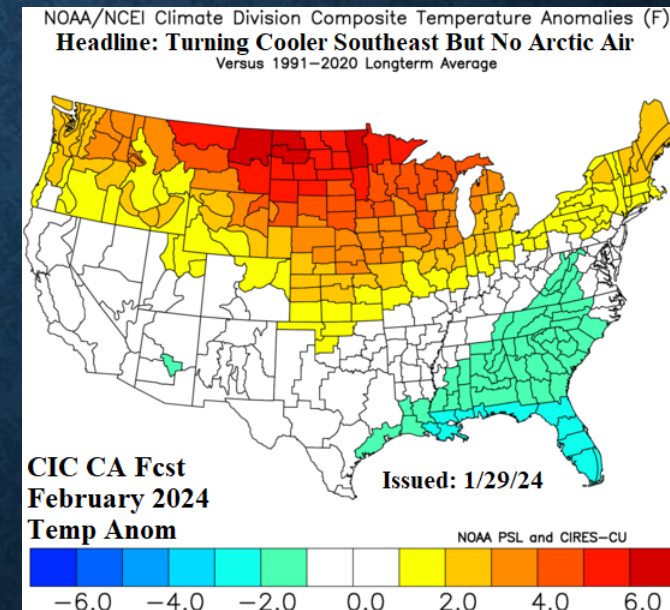


# UPPER AIR PATTERN IN 4 WEEKS

“Ridge bridge” almost there; -NAO pattern developing.



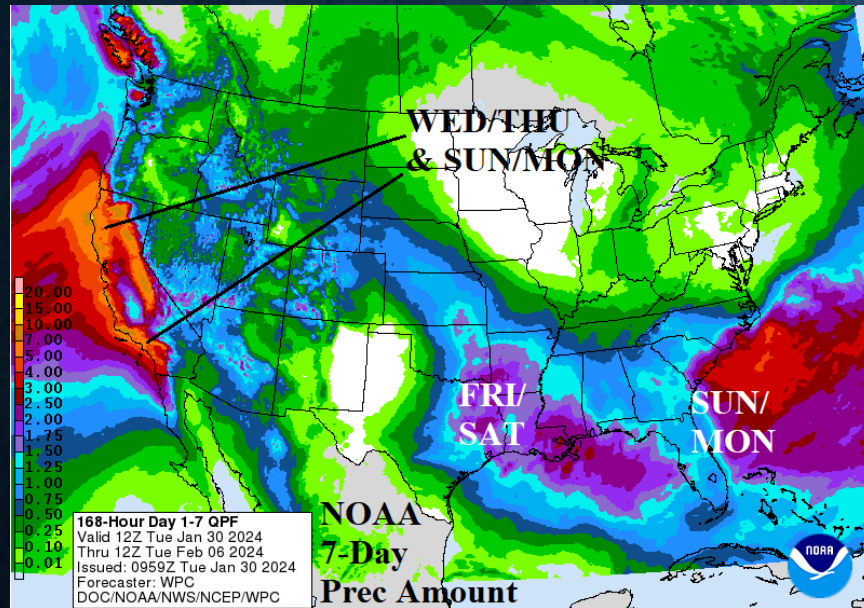
Hot start to FEB biases the monthly forecast warmer than normal.



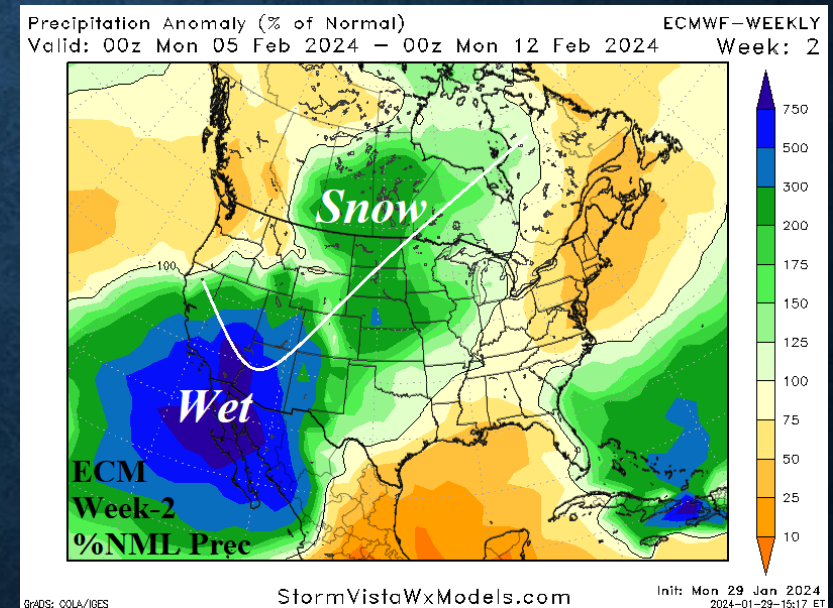


# ATMOSPHERIC RIVER

NOAA 7-Day Outlook: Storms slam West and Gulf States.

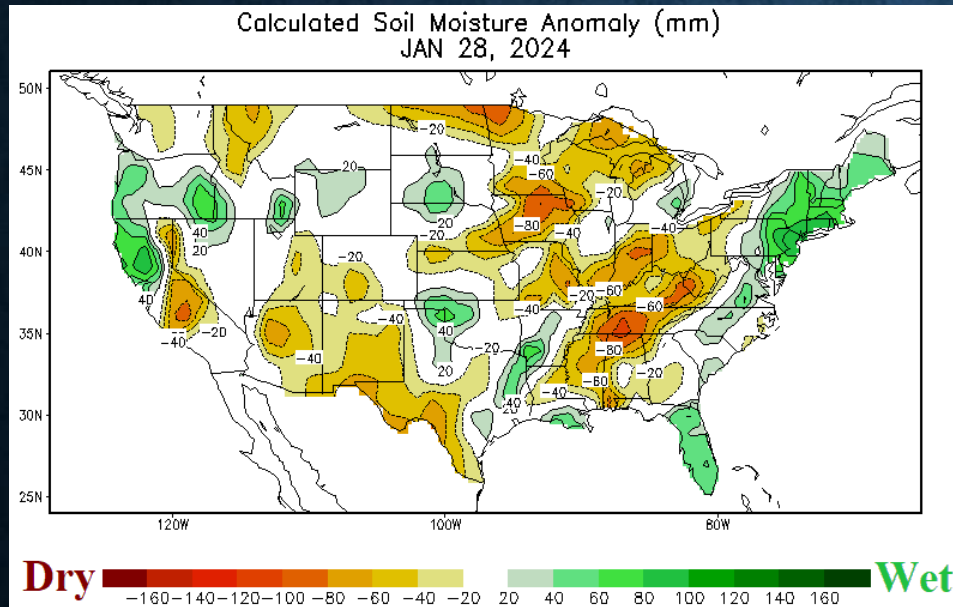


ECM Week-2 Ahead: Plenty of rain (ans snow) West to North-central U.S.

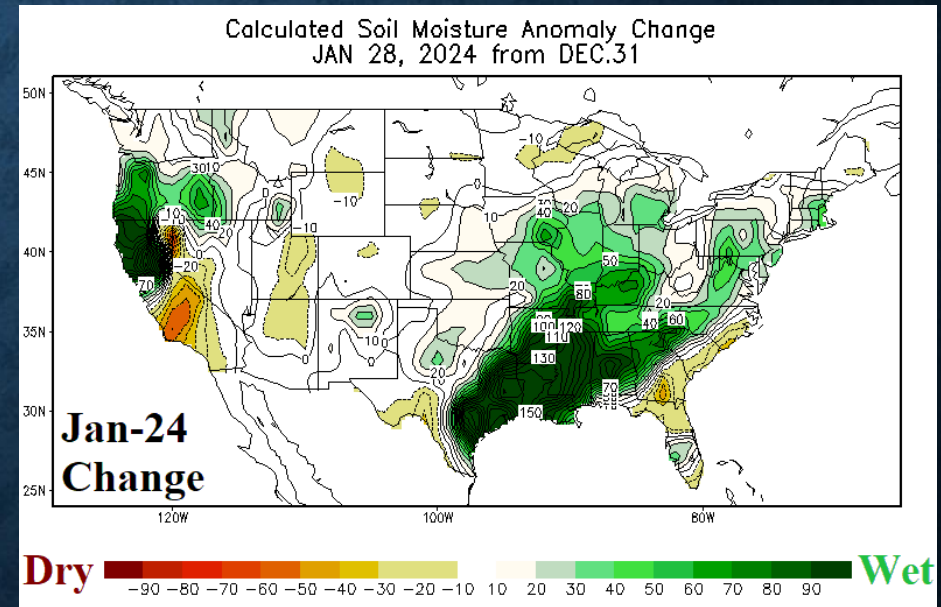


# EXISTING DROUGHT FADING IN EL NINO RAINS

**Excessive rains/flooding tomorrow.**



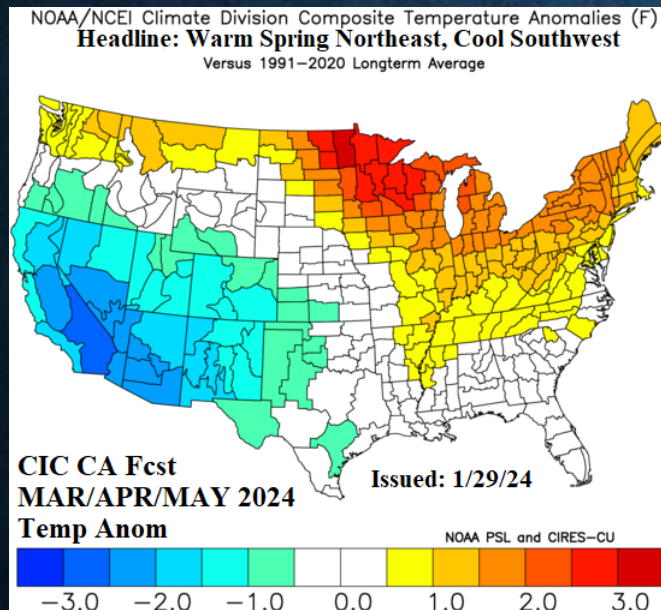
**The TUE-THU 72-hour  
precipitation amount forecast.**



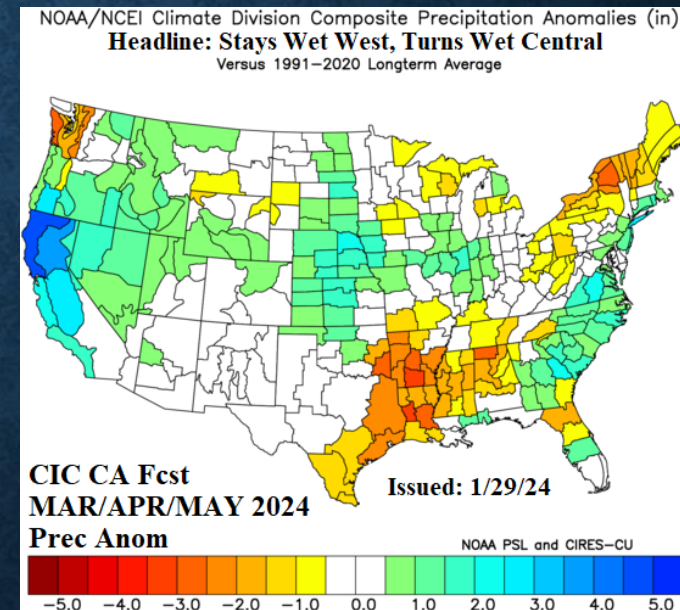


# UNITED STATES SPRING 2024 OUTLOOK

Cool bias Southwest; Warm bias Northeast.

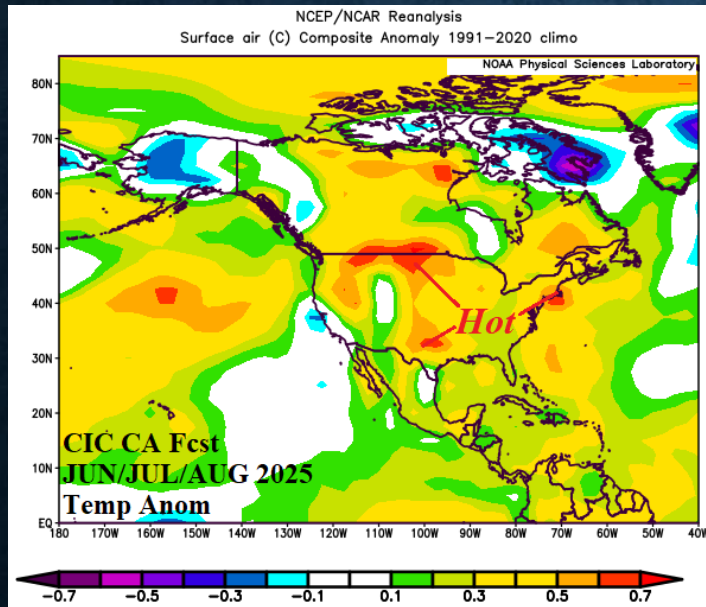


Could be stormier than indicated  
(as El Nino weakens).

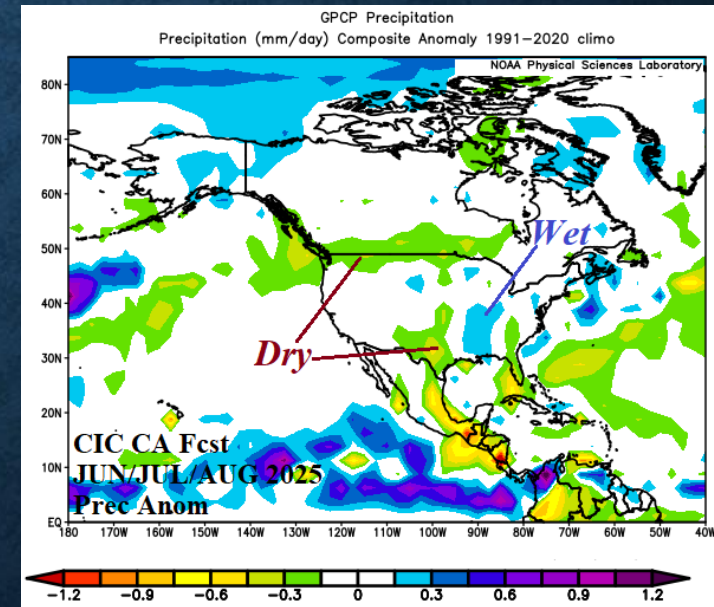


# UNITED STATES SUMMER 2024 CLIMATE

Hot again! CDD forecasts coming soon.



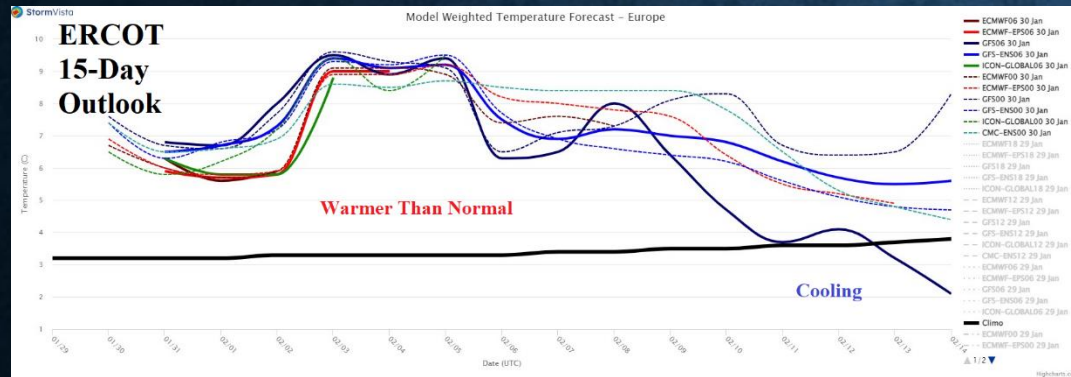
Texas dryness to return during summer!



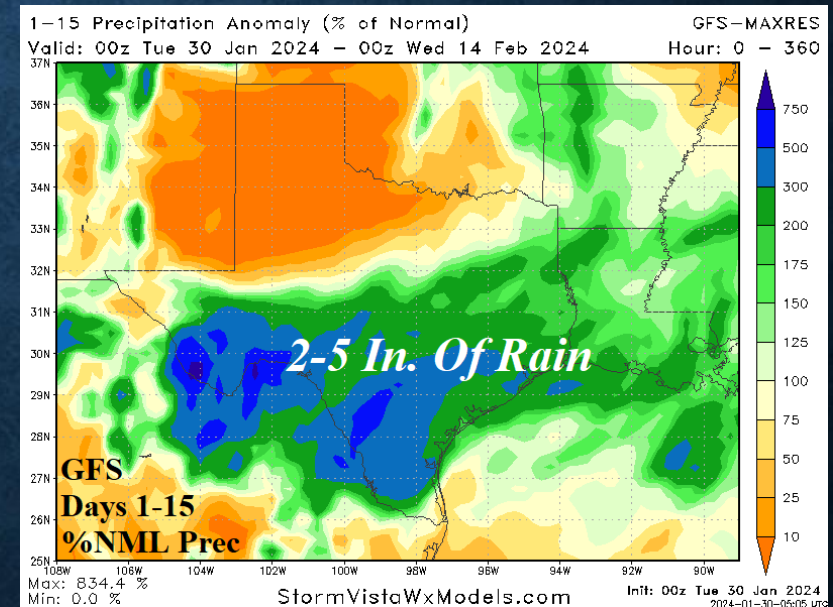


# DELEK ENERGY RETAIL FORECAST

We're looking at a warmer than normal 2-week forecast.

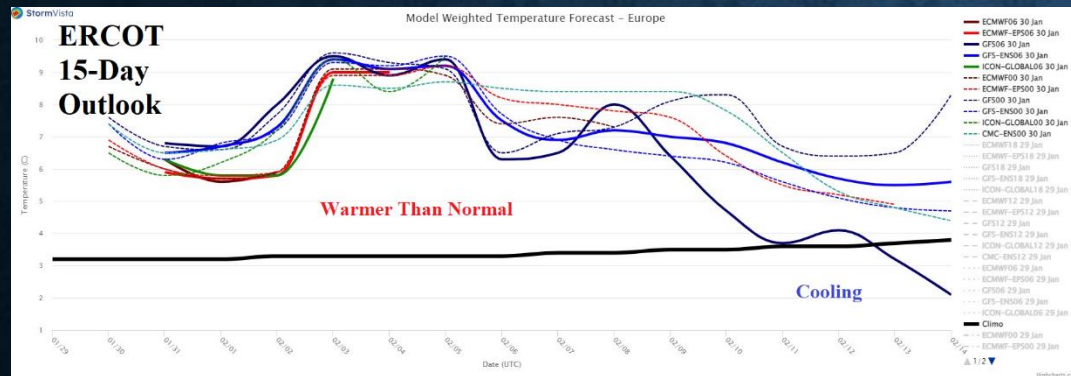


More rain in the forecast!



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