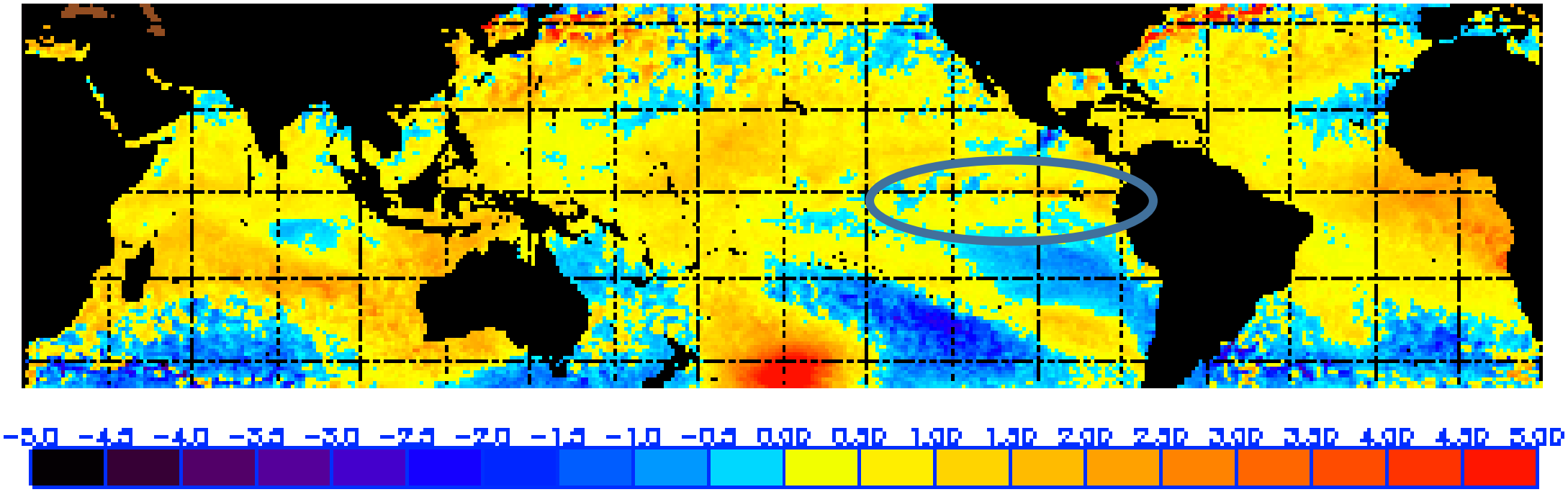
15 Oct 2020 TX

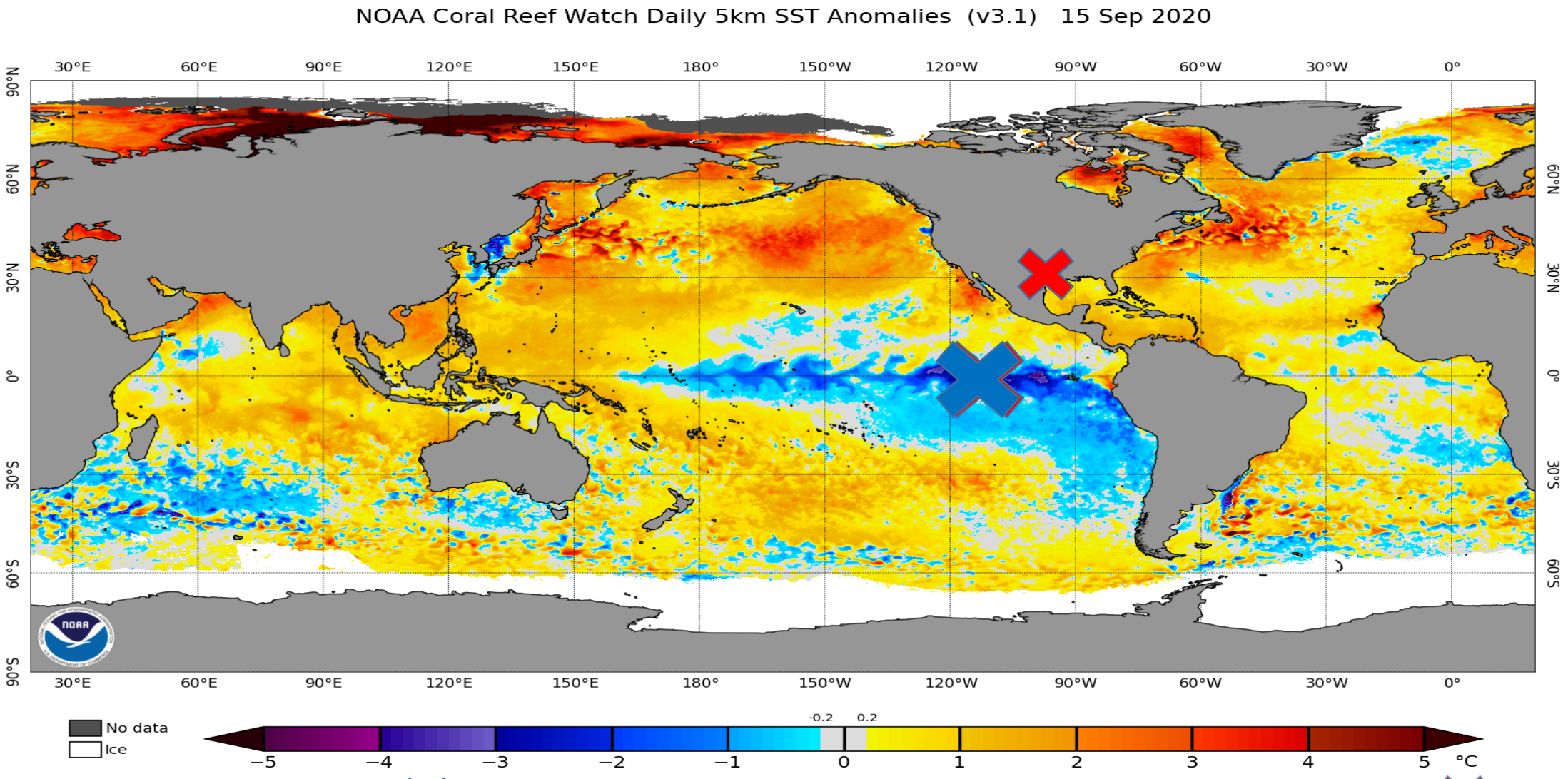
S E Taylor

setaylor@iastate.edu

NOAA/NESDIS SST Anomaly (degrees C), 12/26/2019

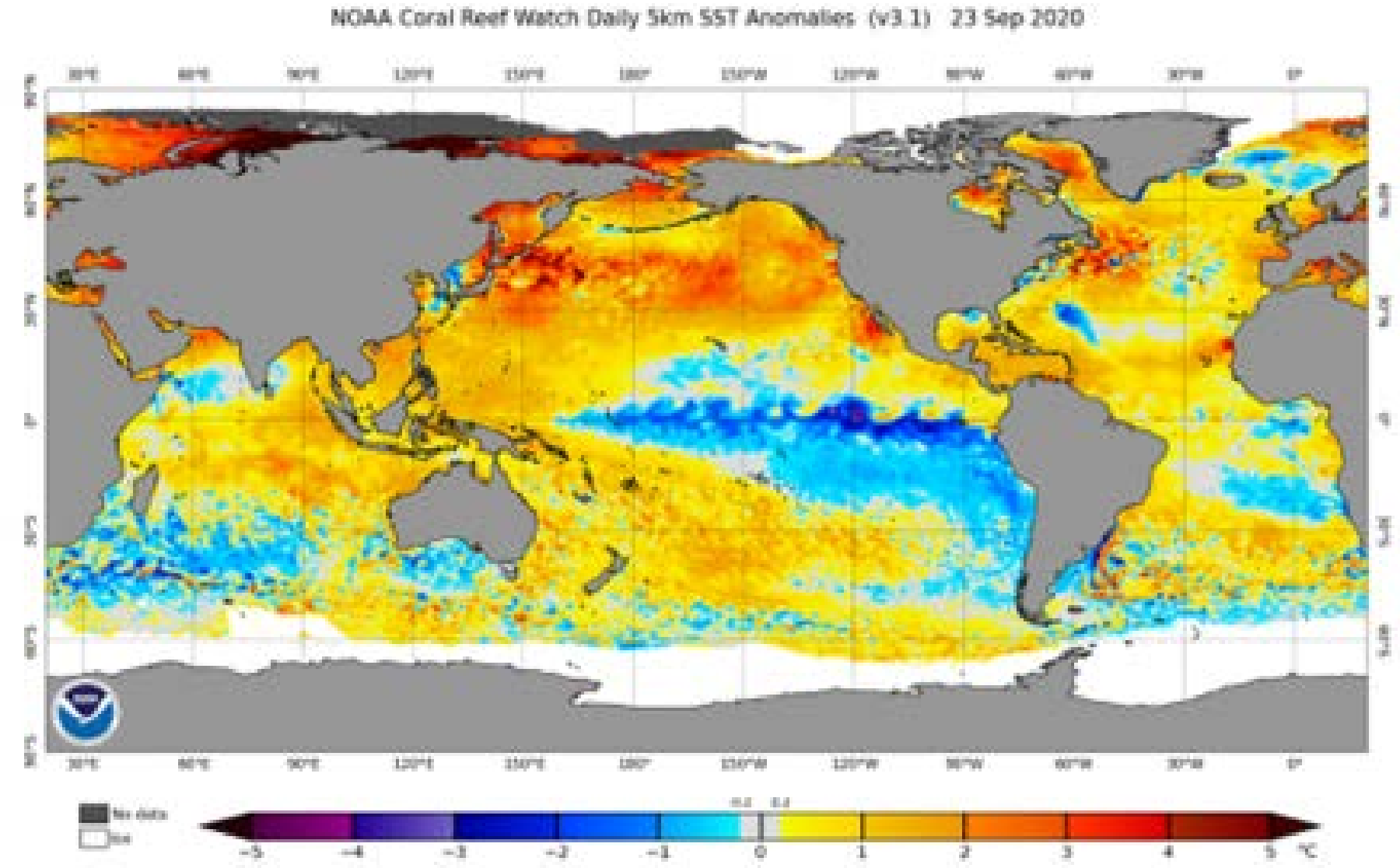


An “annual” (although weak) El Nino showed up for Christmas (the name celebrates Christmas). The “Christmas present” is often the only significant precipitation for the year in some areas of Ecuador & Peru.



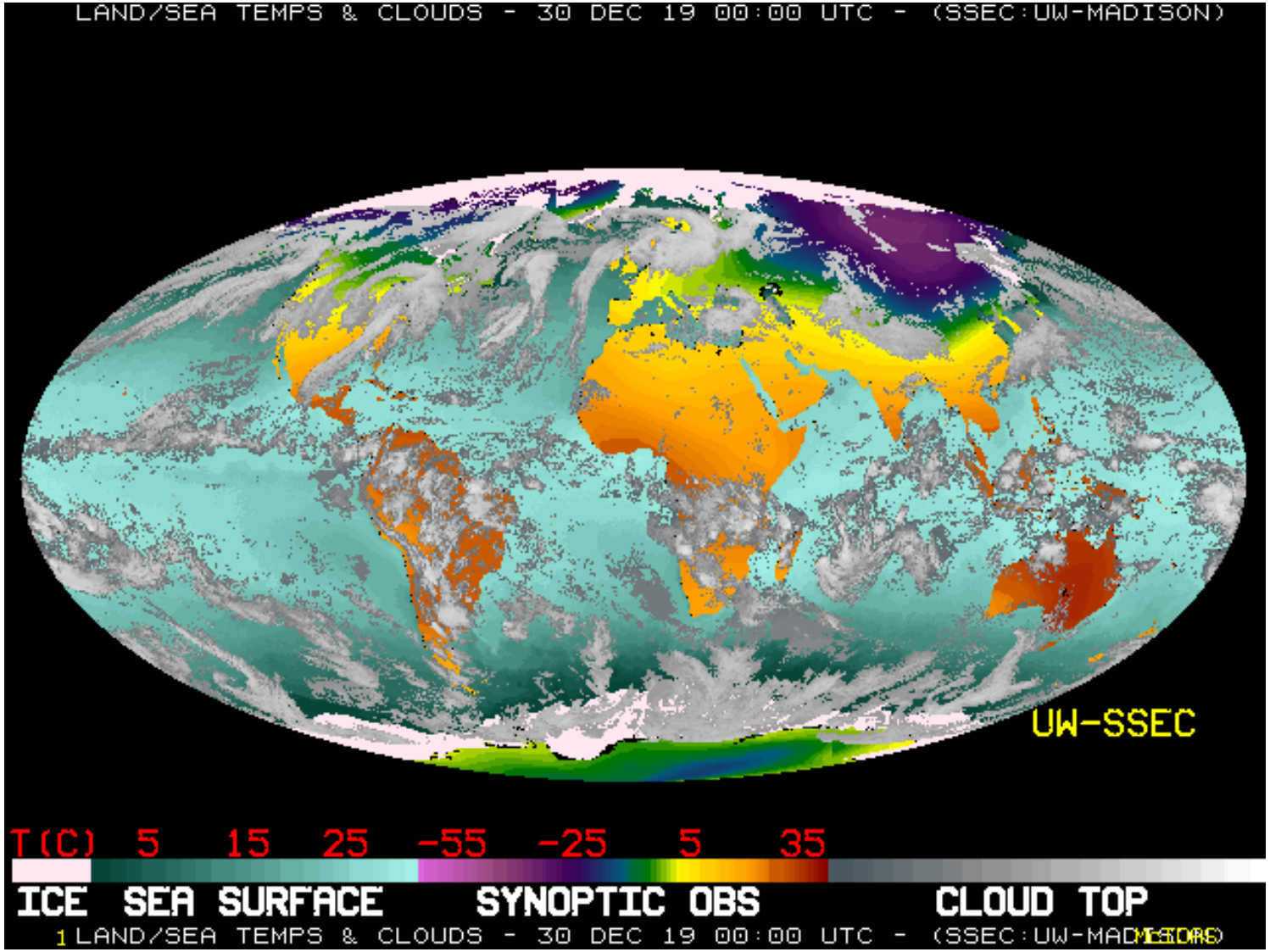
Colder than usual ✖ (La Nina) ➡ threat of extremes on the USA Gulf ✖ Coast.

https://www.ospo.noaa.gov/Products/ocean/sst/anomaly/index.html



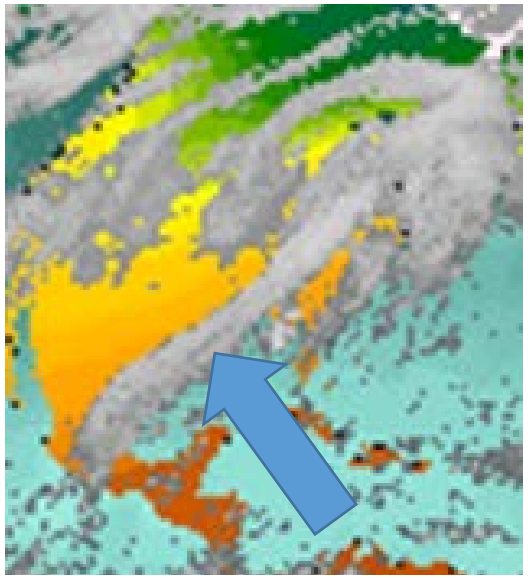
www.ospo.noaa.gov/Products/ocean/sst/anomaly/

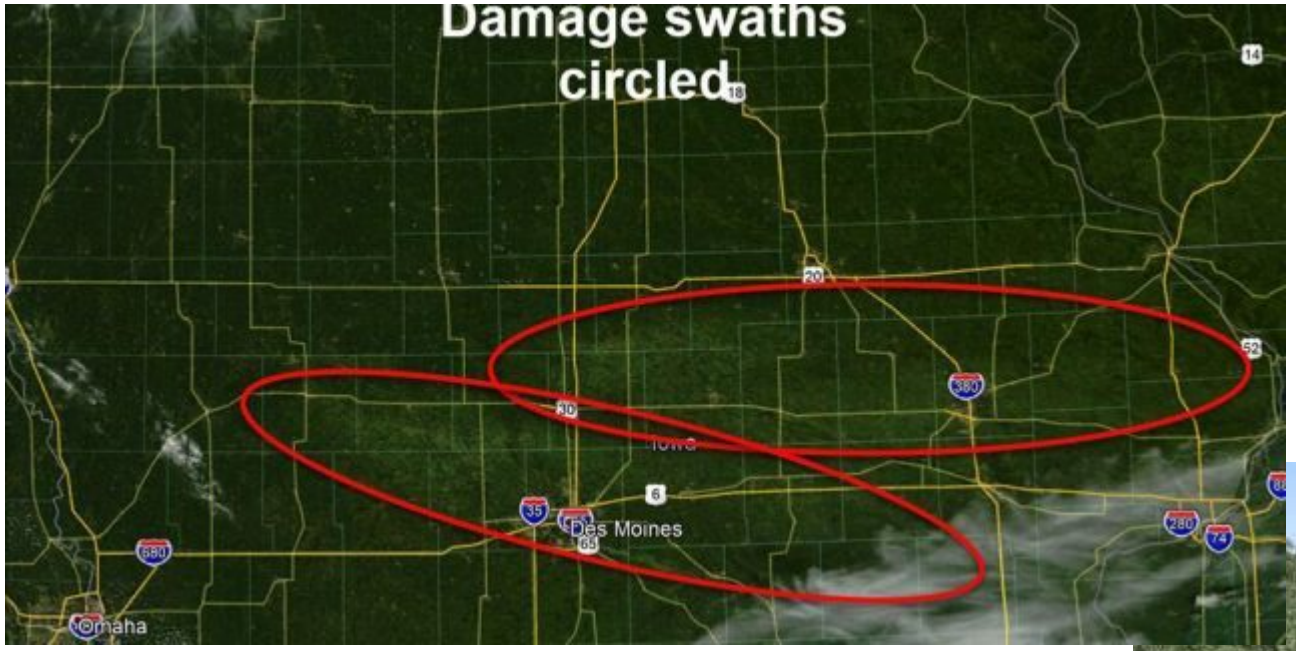
Occasionally use the “url” above to note major changes in sea temperature (that may impact Midwest weather).



4 fronts + Arctic flow

The year 2019 ended with a cold front from Texas to New England



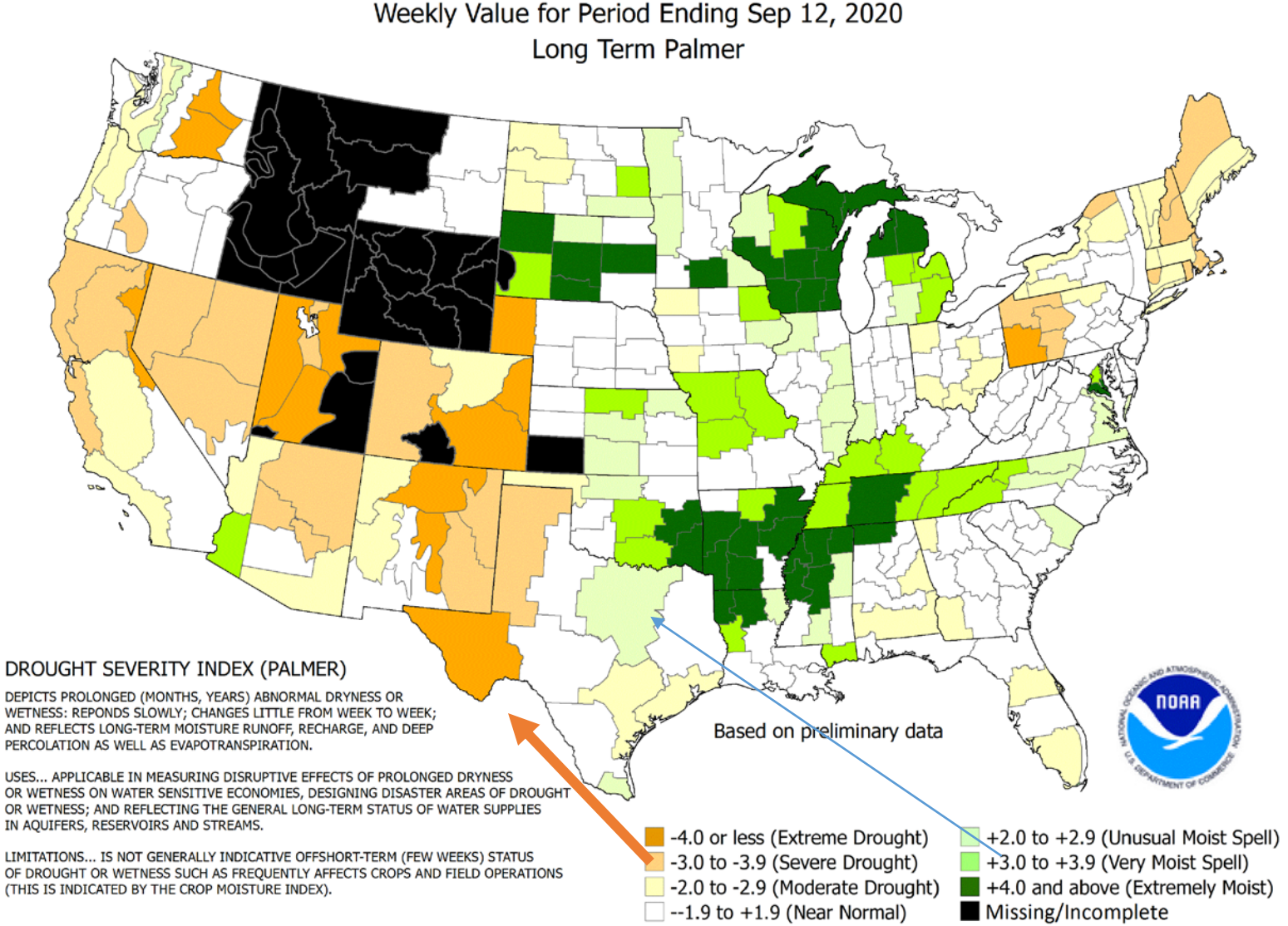


Derecho, 10 Aug 2020

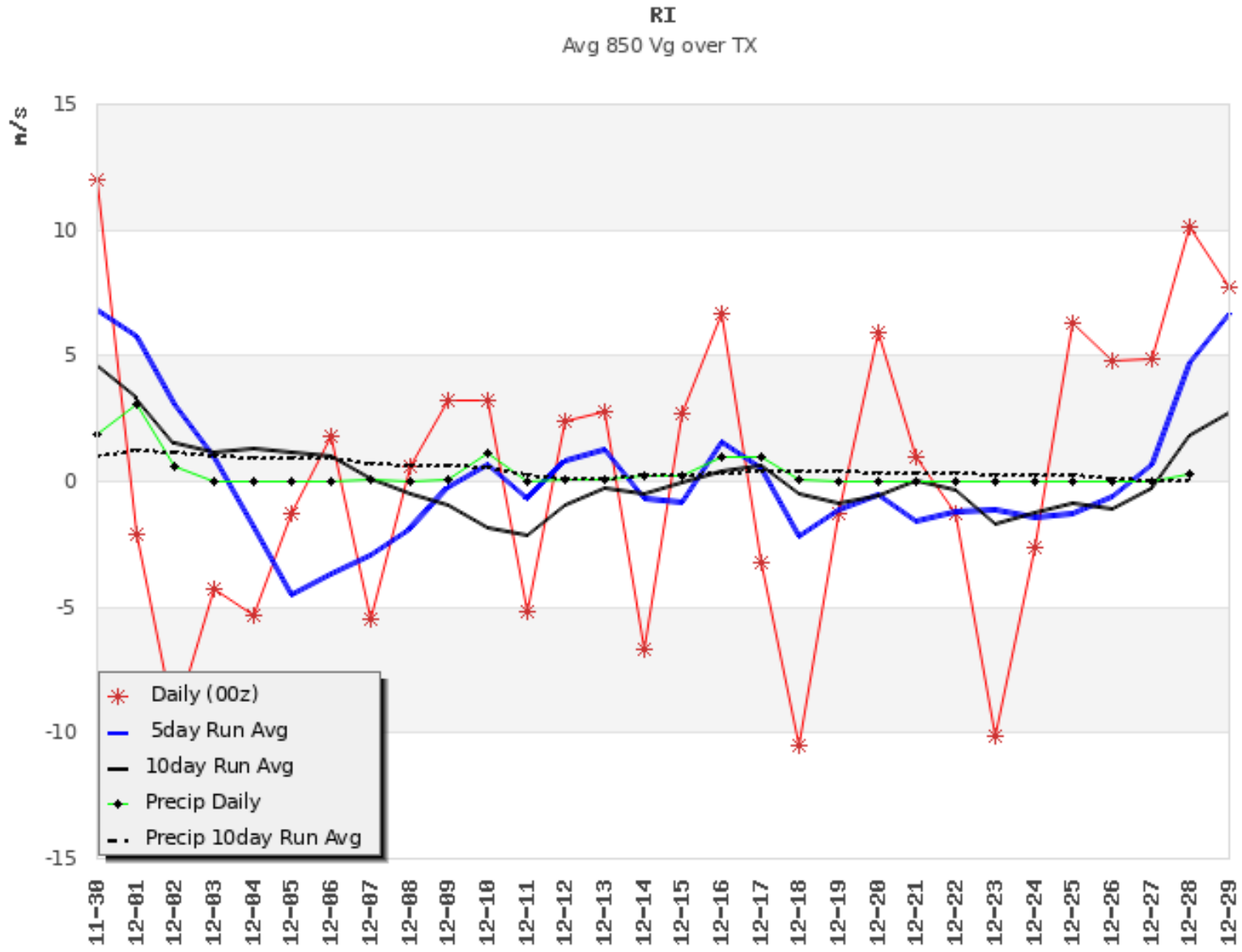
Numerous fields “0” yield

The highest official wind gust measured was 99 mph at the Marshalltown Airport with an unofficial wind gust of 106 mph.

Derecho results in extensive lodging in the center of the Corn Belt.



https://www.cpc.ncep.noaa.gov/products/analysis_monitoring/regional_monitoring/palmer.gif

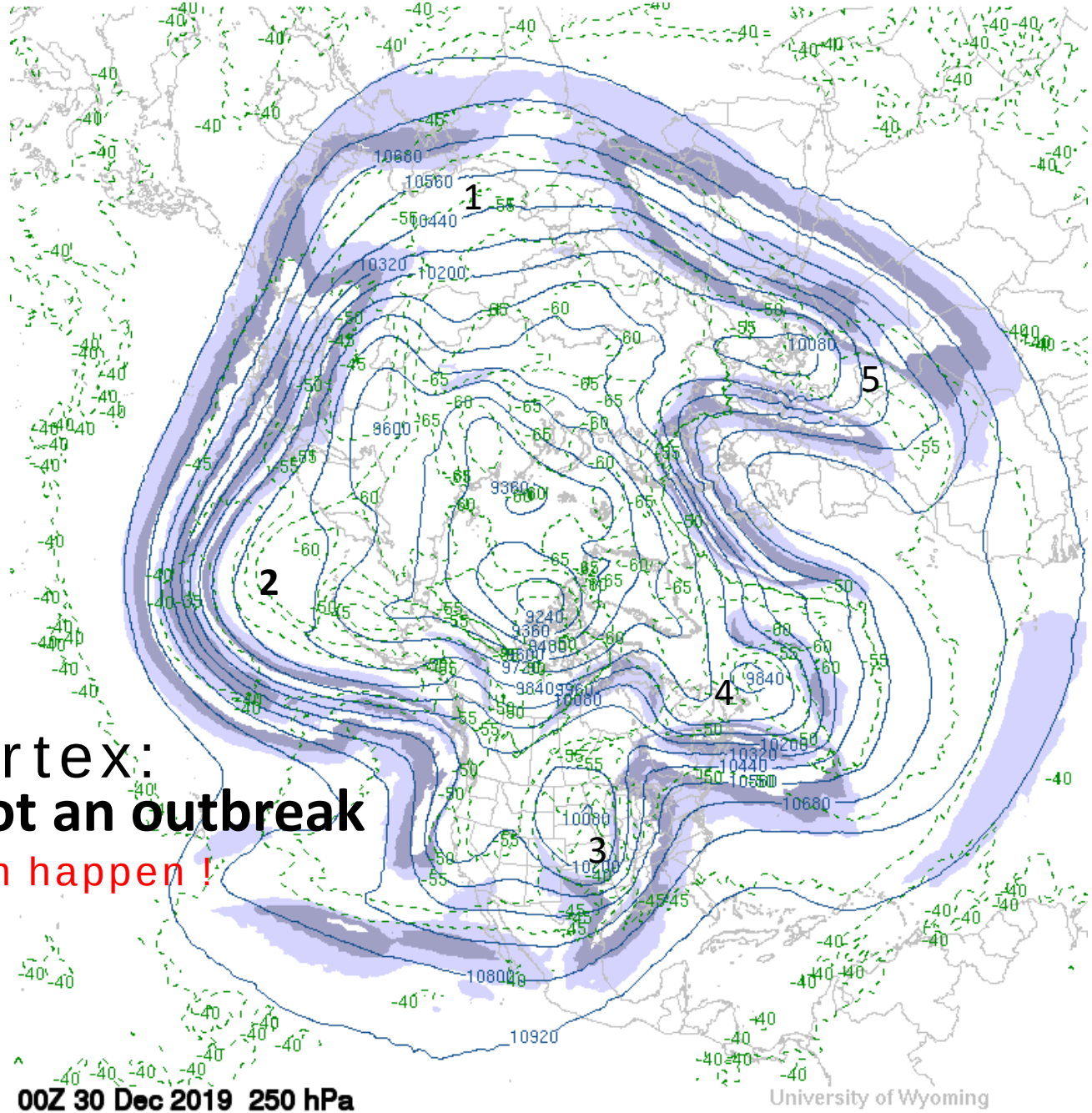


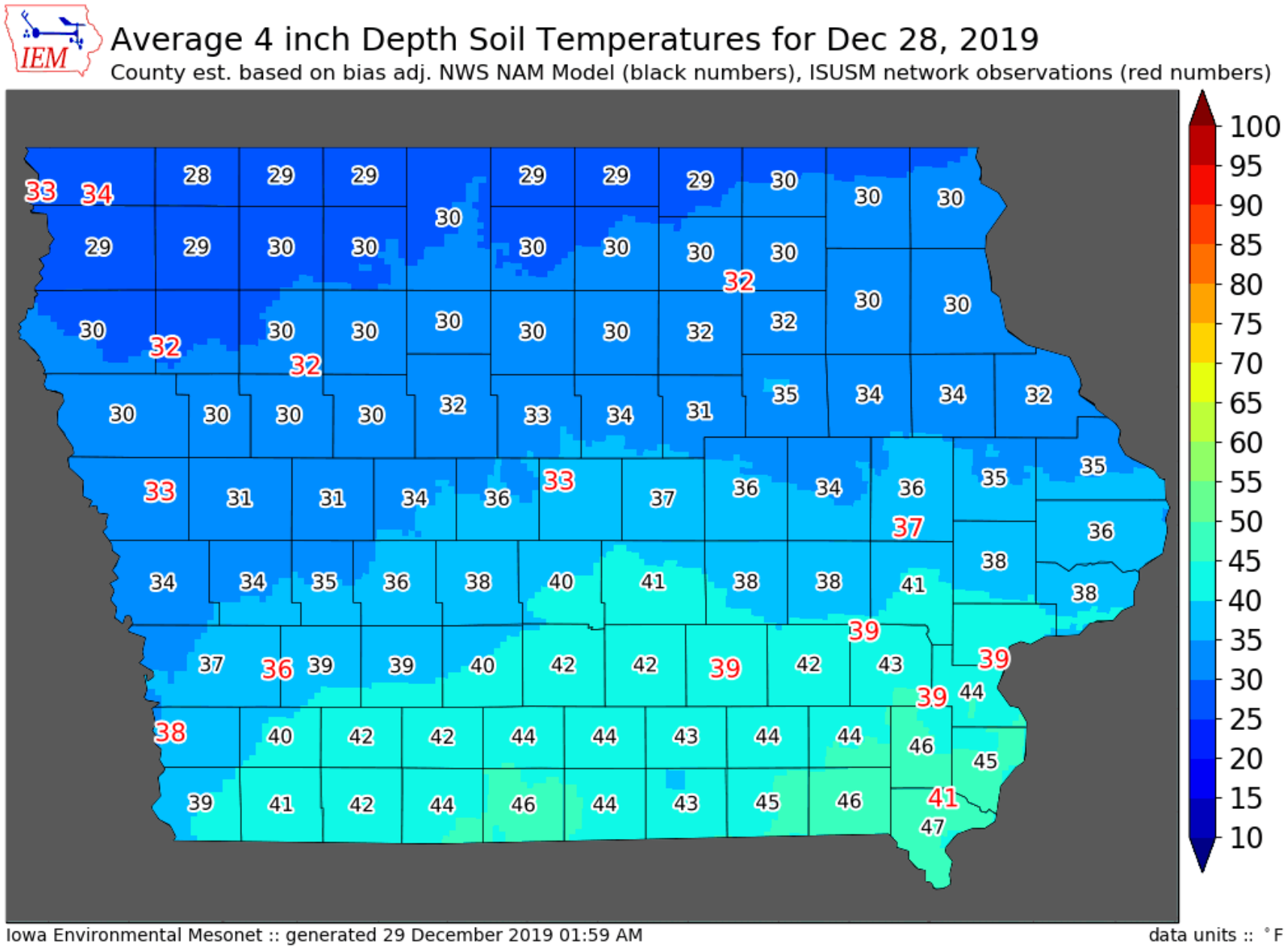
The “RI” indicates moisture flow from the “Gulf” … when RI is + for consecutive days.

Polar Vortex:

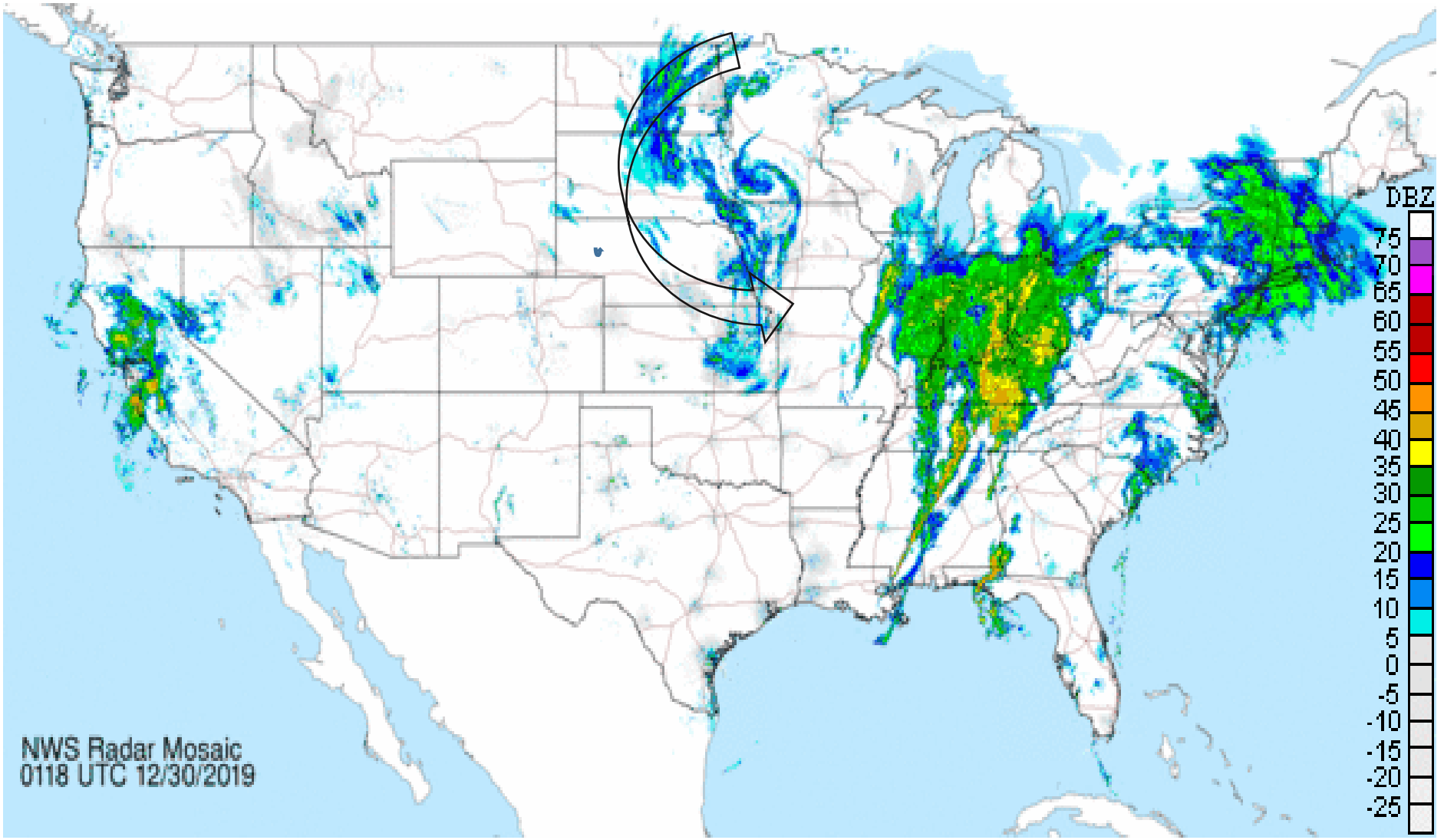
5 Lobe… Not an outbreak

Any thing can happen !



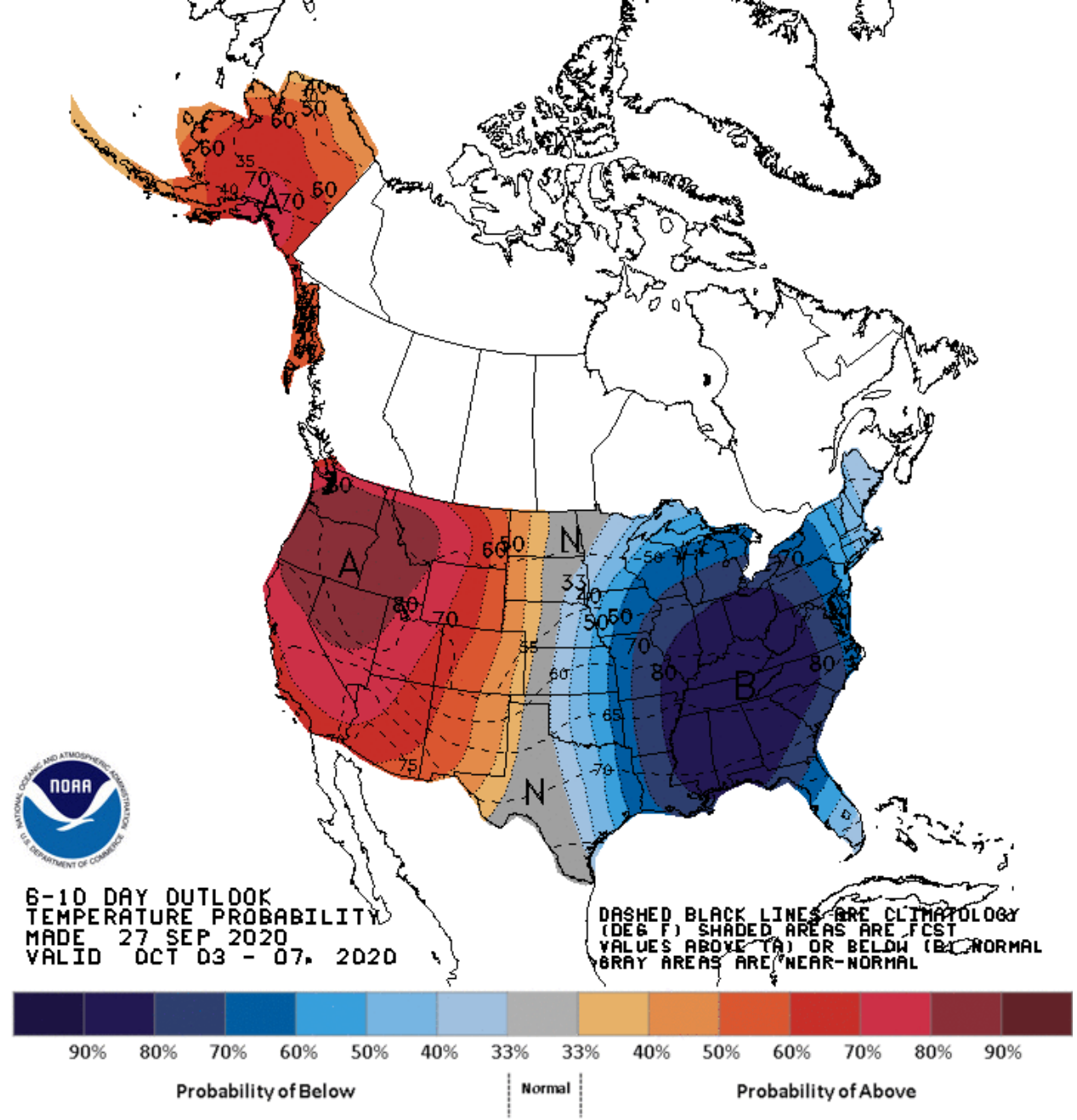


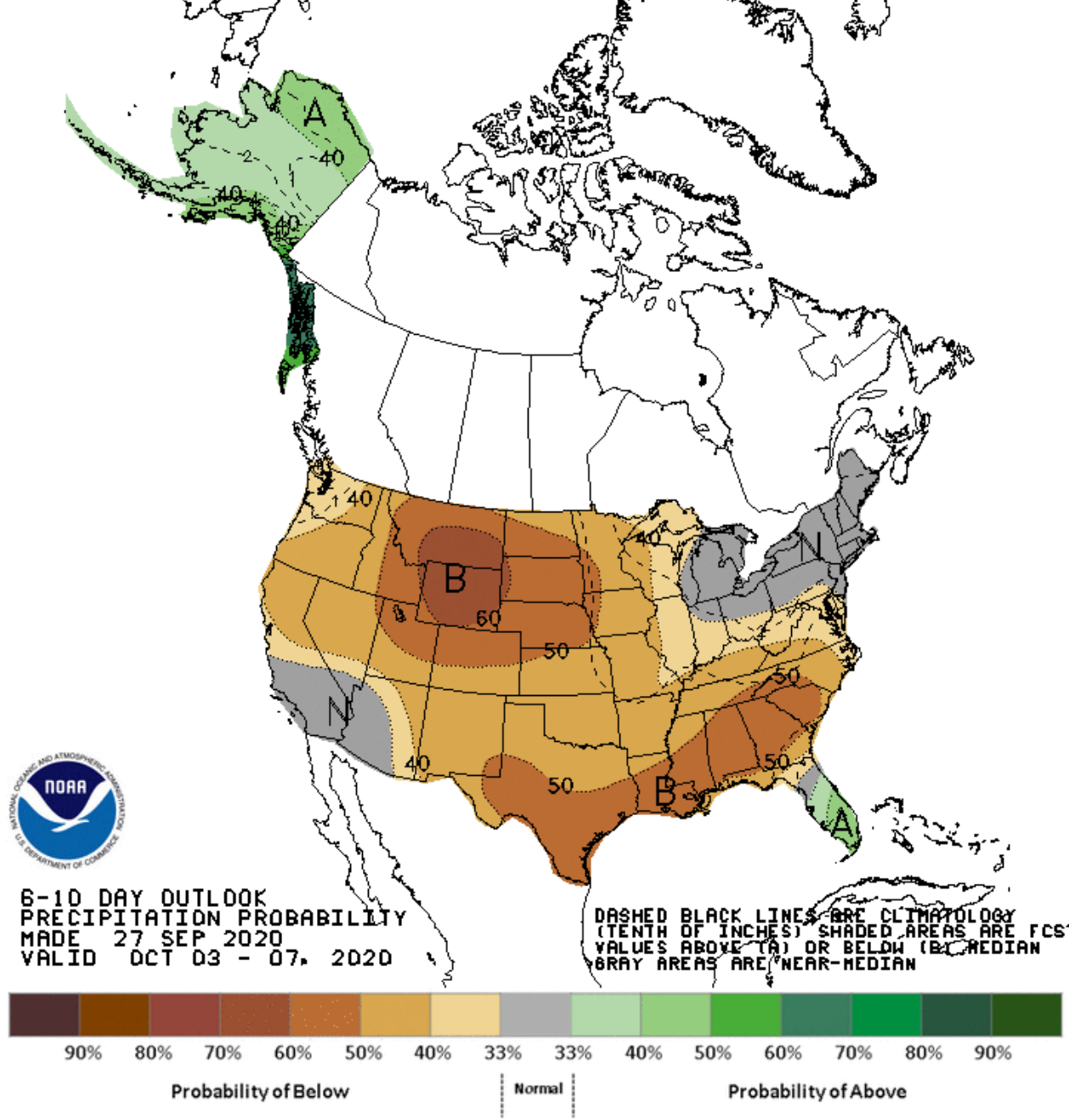
Soil temperature was down several degrees since previous week.



Moisture from the Gulf brought precipitation to the Eastern Corn Belt.

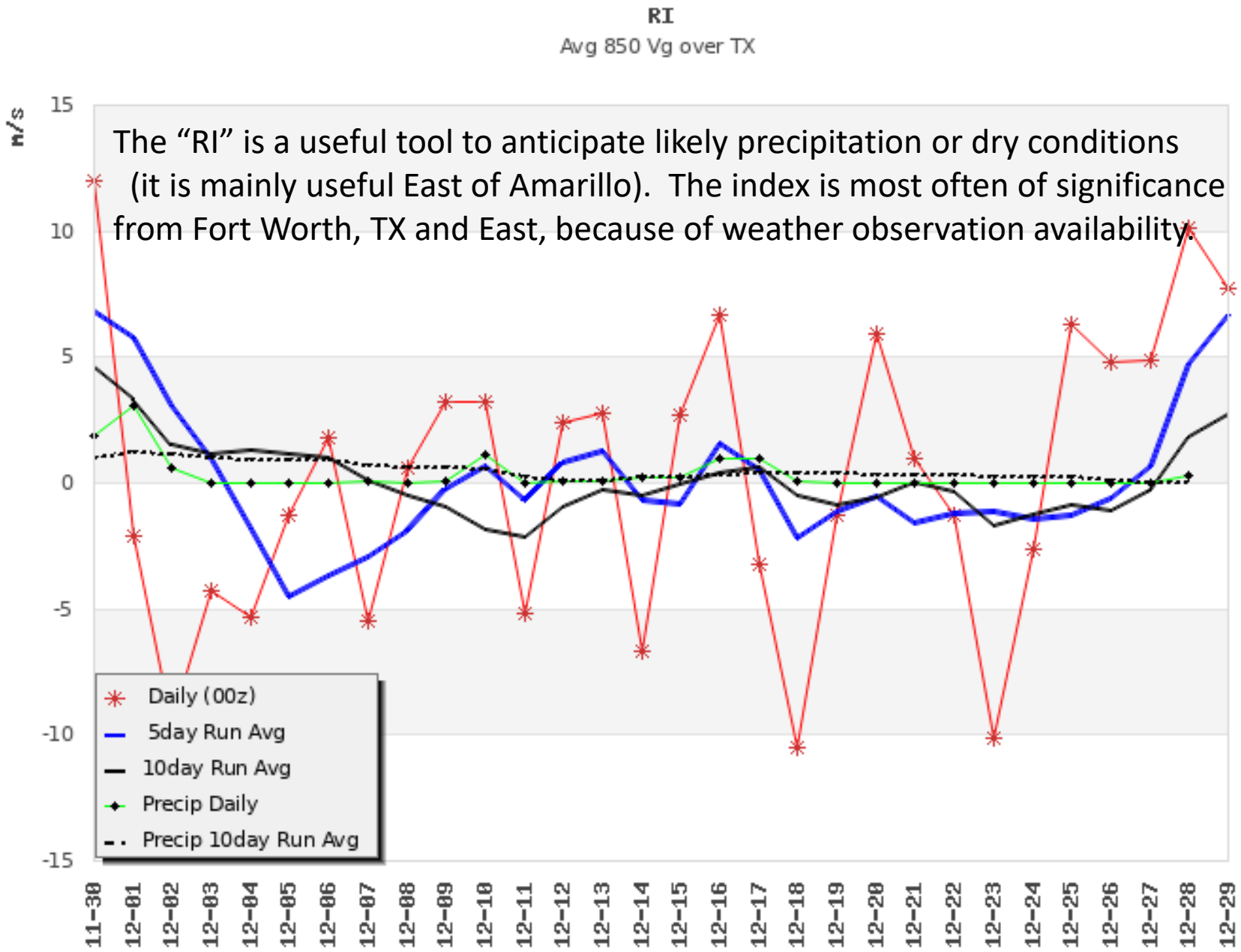
Cold air entered the U. S. through N & S Dakota





www.cpc.ncep.noaa.gov/products/predictions/610day/

RI

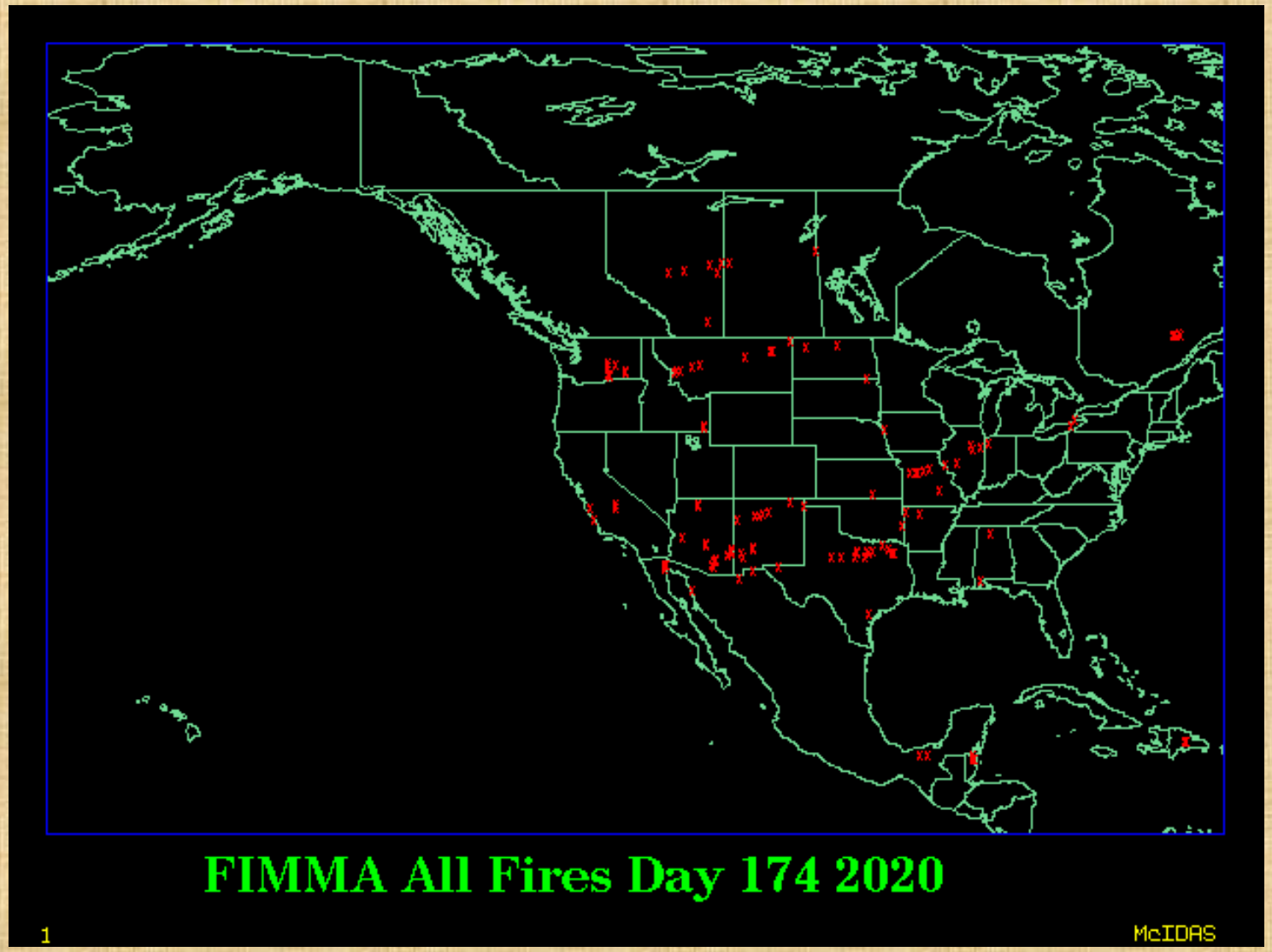


The "RI" is a useful tool to anticipate likely precipitation or dry conditions (it is mainly useful East of Amarillo). The index is most often of significance from Fort Worth, TX and East, because of weather observation availability.

Rieman Index: Mesonet.agron.iastate.edu/~windmill/RIpage.html

Gulf Storms Impact More than the Coast !

Most Corn Belt moisture
is a result of
Gulf Coast conditions.



https://www.ssd.noaa.gov/PS/FIRE/Layers/FIMMA/fimma.html

17th of April 2020 brings numerous range fires.

END .