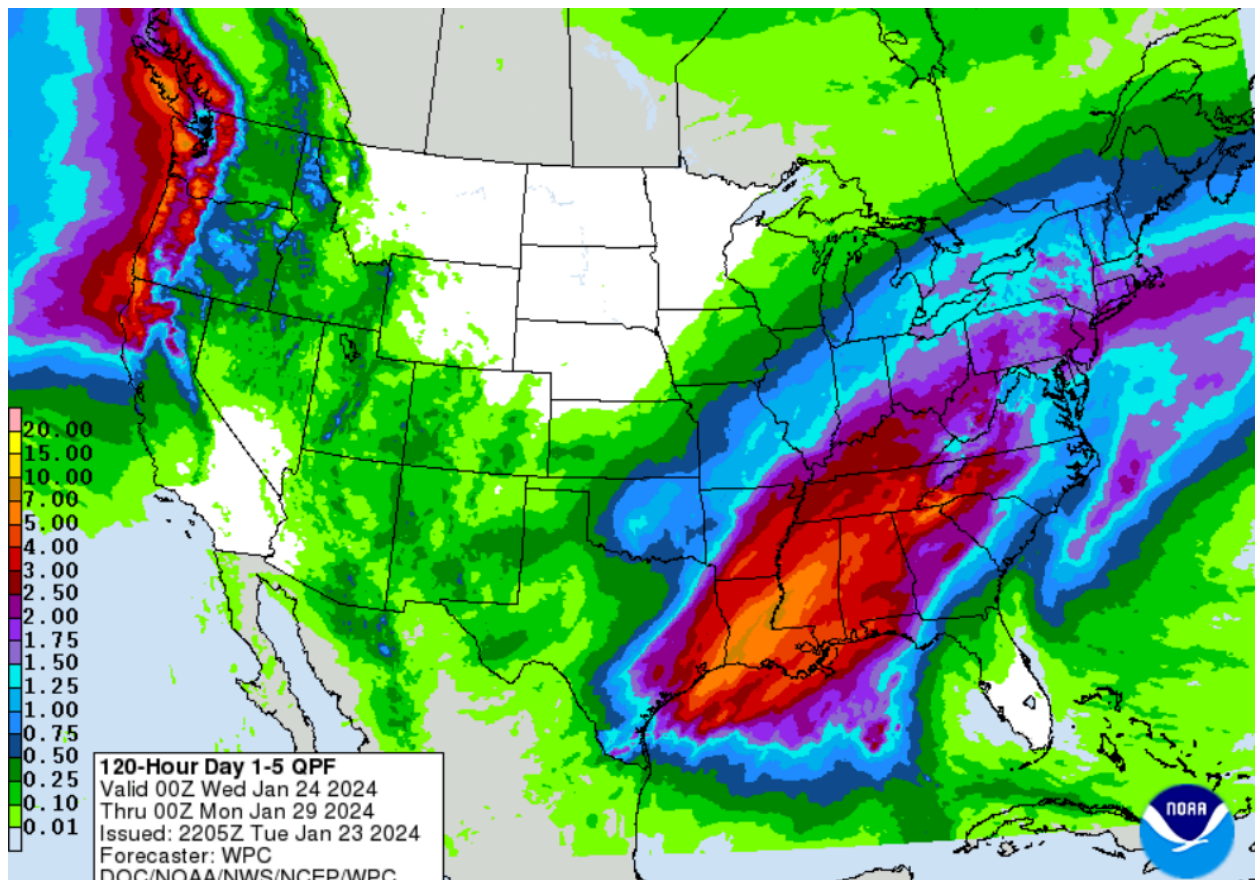


Weekly Climate Summary: 1/13/2024-1/20/2024

Climate in the News:

The cold weather and ice was the main story in the week of January 13-20 for the State of Texas as arctic air surged southward into much of the United States. As we turn our attention to the week of January 21-27, we find a very wet pattern taking place across the State, particularly, the southeast, with multiple rounds of rain on the way. Areas along the red river may experience light icing on the roads due to temperatures hovering near freezing with ongoing precipitation on January 22. This may be the last gasps of significant cold for the foreseeable future as above normal temperatures are expected to take hold along with the rainy pattern up ahead. Looking further ahead to the final days of January, we find that the State is divided so that the northern part is more likely to experience above normal temperatures and the southern part is expected to hover near climatological averages. The seemingly relentless wet period on the week of January 21-26 is expected to cease to close out the month of January as shown in the Climate Prediction Center's 6 to 10 day outlooks.



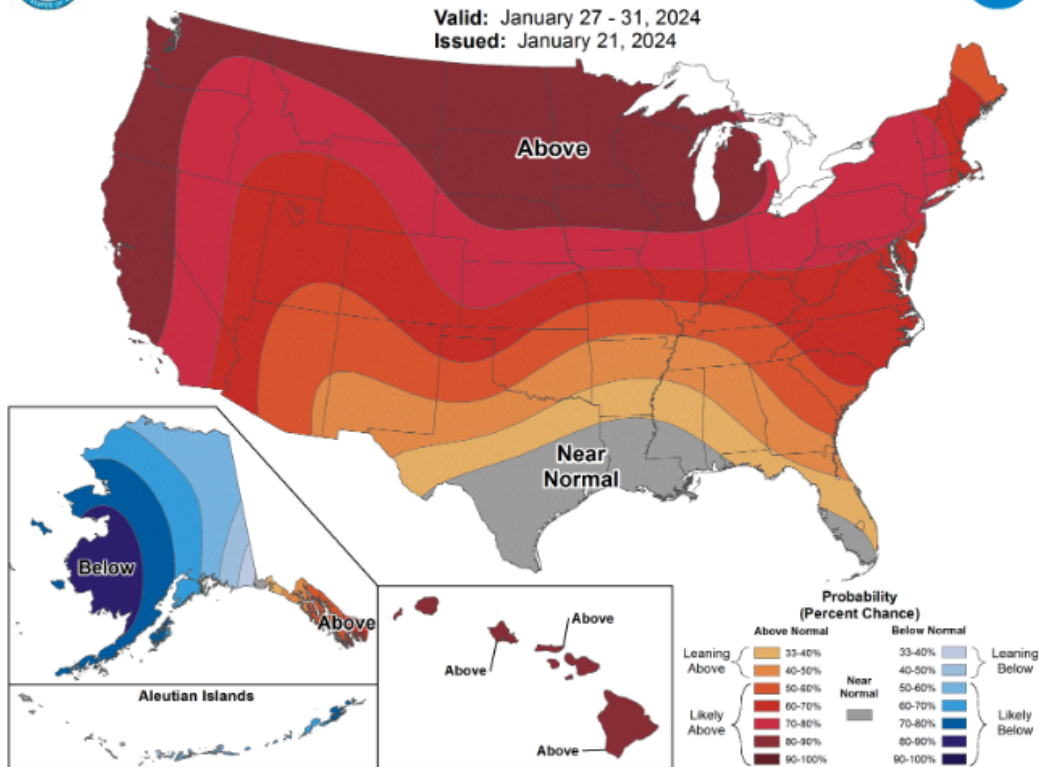
Temperature Probability



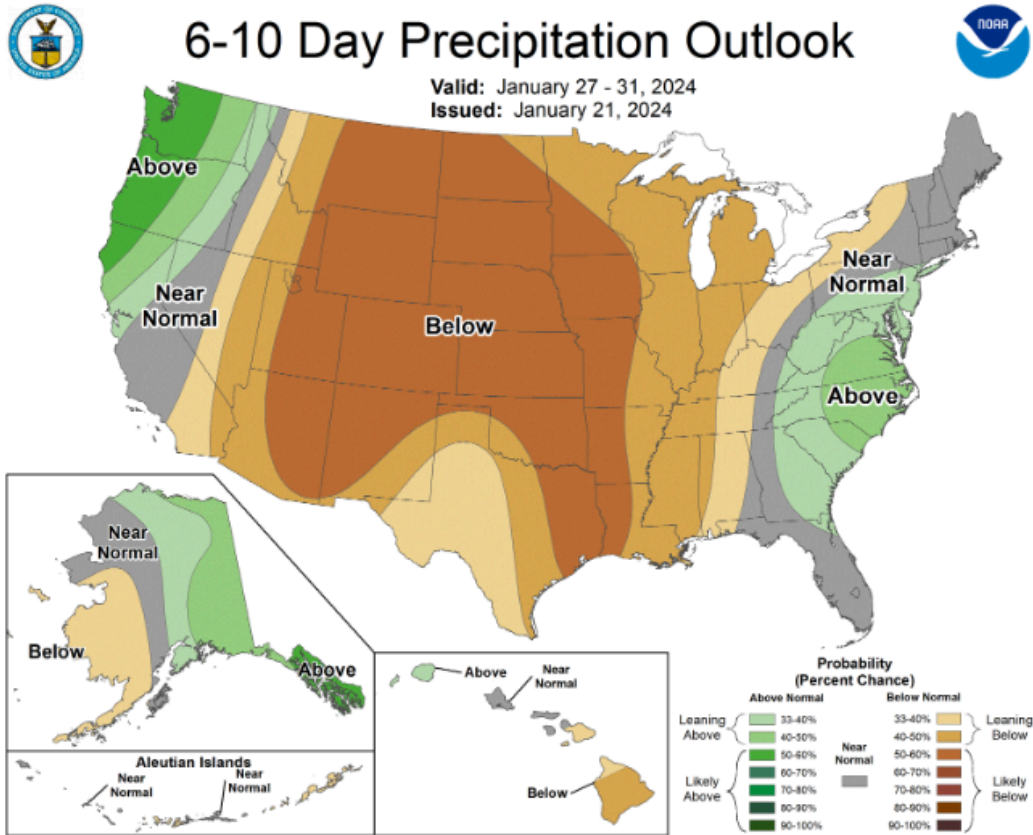
6-10 Day Temperature Outlook



Valid: January 27 - 31, 2024
Issued: January 21, 2024



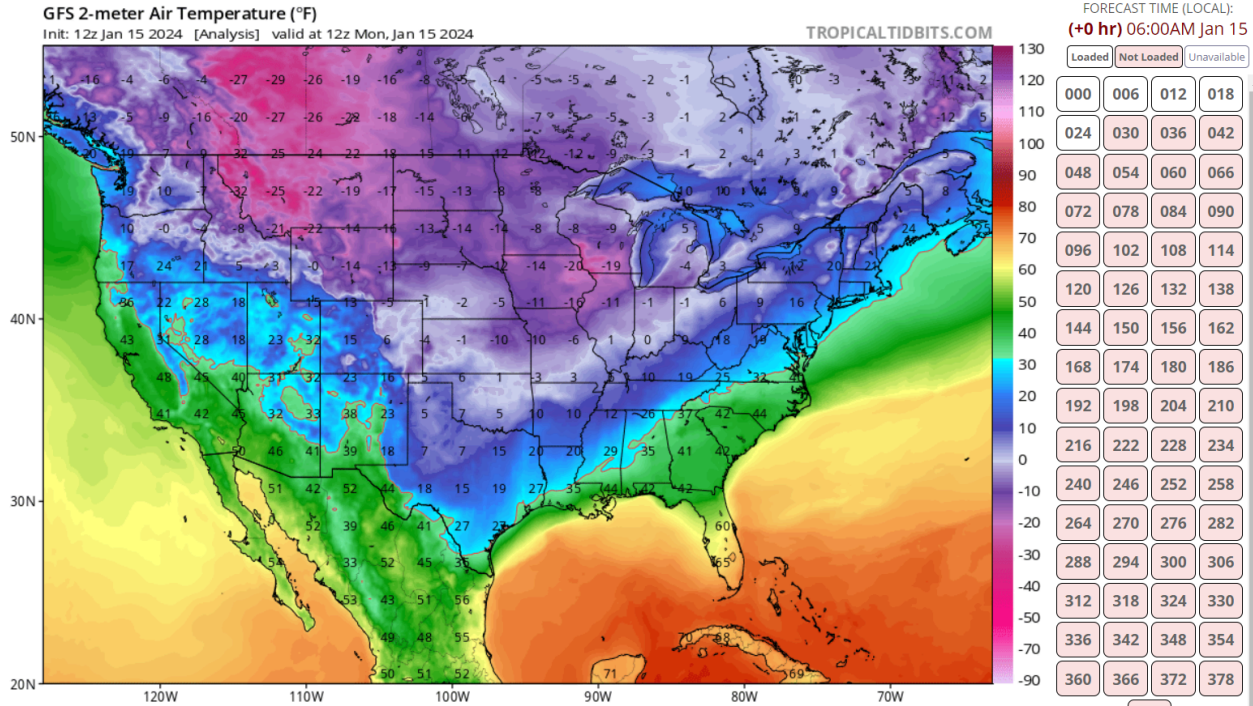
Precipitation Probability



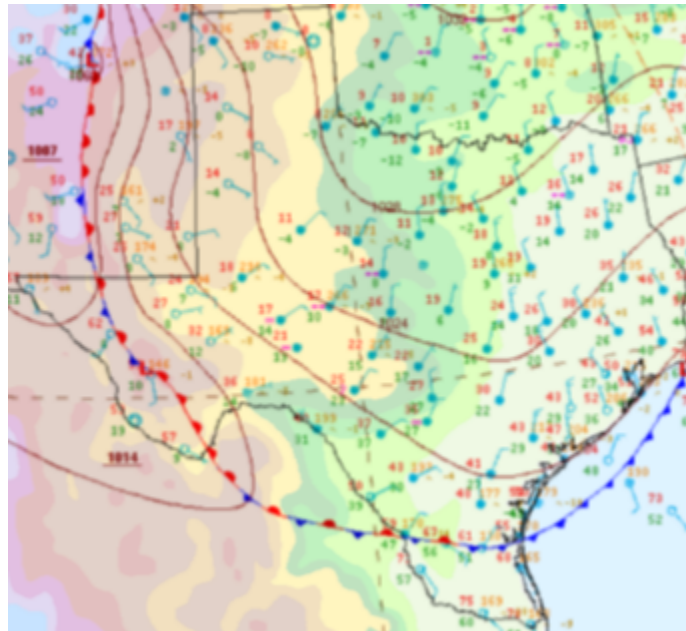
Source: Climate Prediction Center

Weather Synopsis:

The coldest air was seen at the beginning of the week, later moderating with the return of gusty southerly winds, only to resurge at the end of the week following the passage of a secondary cold front. Disturbances in the atmosphere coincided with the abnormally cold air mass to produce wintry precipitation across a significant portion of Texas, with areas as far south as Austin to College Station seeing significant impacts from the wintry precipitation. Even Houston Intercontinental airport saw a trace of snow on the 15th. Disruptions to daily living were seen across Texas as many independent school districts and businesses closed their doors on Tuesday, January 16 due to hazardous cold and road conditions. The remnants of wintry precipitation cleared the roads for much of the State as sunshine broke out on Tuesday despite temperatures remaining below freezing for most of, if not the whole day for a large part of Texas. Wednesday and Thursday saw southerly winds develop and raise temperatures across the state with some areas soaring into the 70's, only for a powerful cold front on Friday, January 19, to slam through allowing abnormally cold temperatures to seep into the State once more.



*A forecast model's representation of surface temperatures on 6:00 am Central Standard Time on Monday, January 15. Most of Texas is experiencing exceptionally cold temperatures at this time.
 Source: Tropical Tidbits, GFS model 2 meter temperature*



*Weather Prediction Center's surface analysis showing the cold front responsible for the frigid start to the week at 12 pm CST on Sunday, January 14. Most of Texas is engulfed in the arctic air mass at this time.
 Source: Weather Prediction Center*

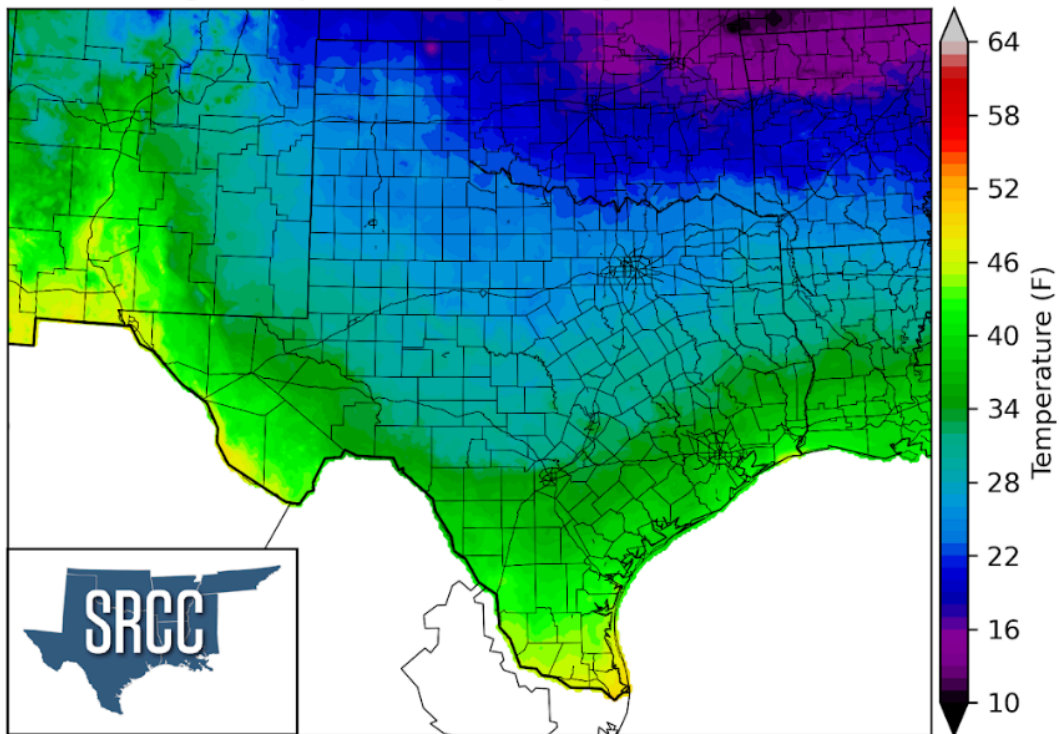
Temperature:

The powerful cold front that rolled through the State on Sunday/Monday made its effects clear as 7-day departures were well below climatological averages. Numerous cold records were established, and combined with light precipitation, these abnormally cold conditions allowed for light ice and snow accumulations for a good portion of the State of Texas. Statewide, the average weekly temperatures typically ranged from 20°F to 50°F Statewide extremes creeping outside this range.

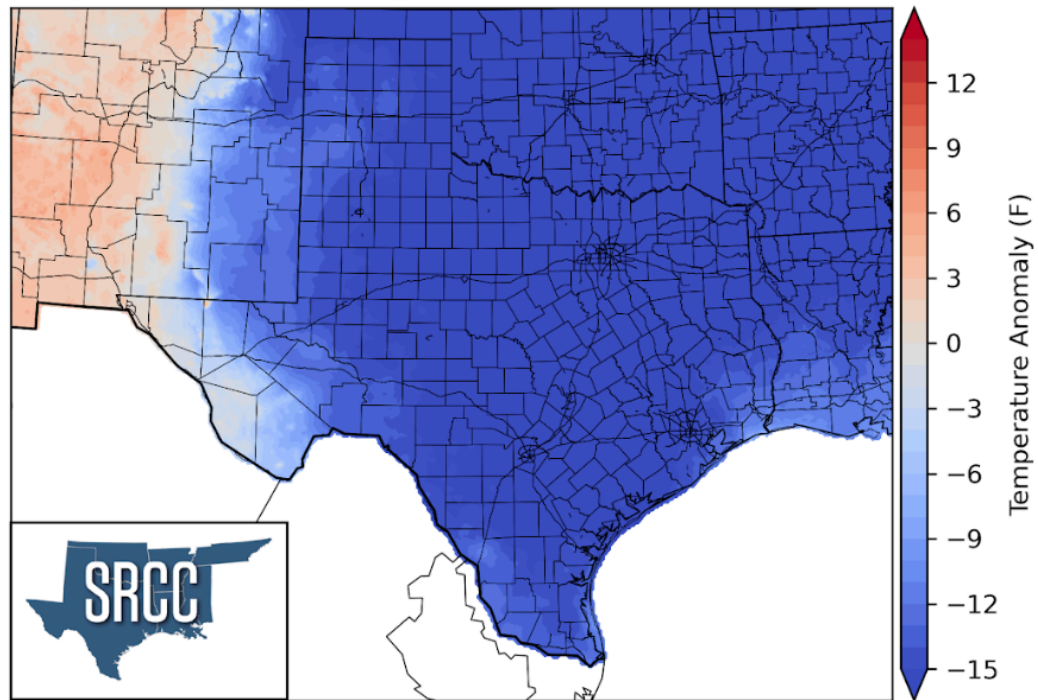
In Texas:

- The Follet Co-op site in Lipscomb County saw the coldest weekly average at 18.0°F
- The Port Isabel Co-op site in Cameron County saw the warmest weekly average at 54.3°F

Average Temperature (F) January 13 - 20, 2024



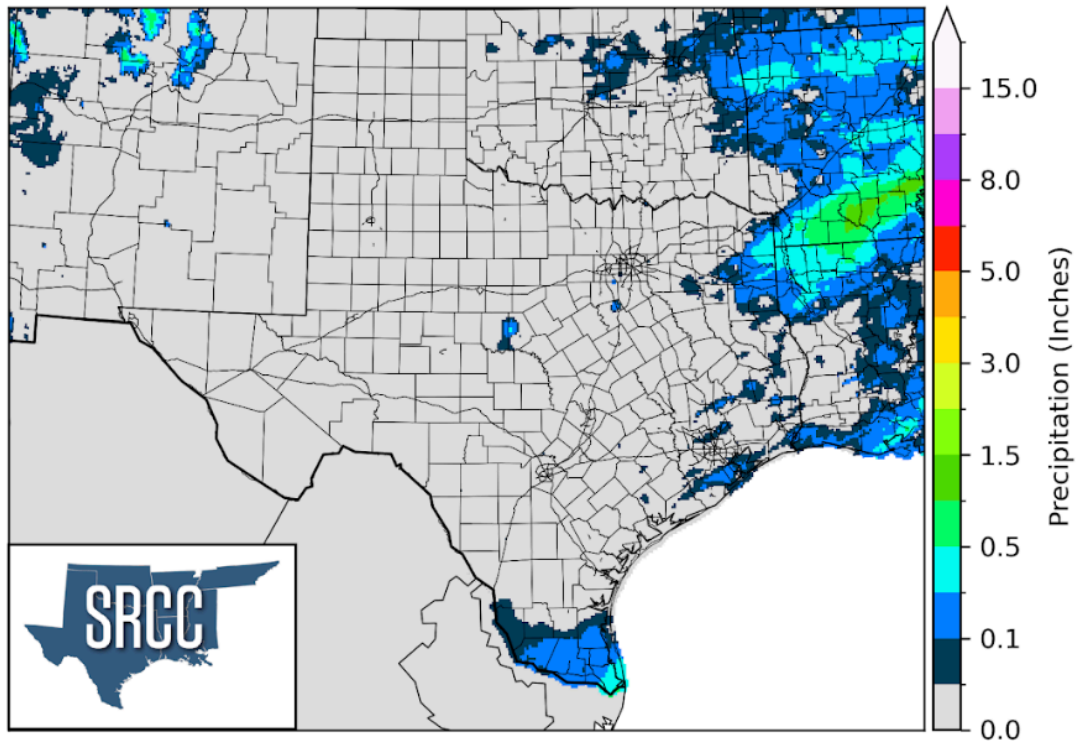
Mean Temp Anomaly (F) January 13 - 20, 2024 vs 1991-2020 Normals



Precipitation:

Rainfall was scant for the week of January 14-20. The entire state failed to see even an inch of precipitation. Though precipitation totals were not significant, the cold temperatures made these light accumulations problematic as precipitation was in the form of snow, sleet and freezing rain. Moving forward into the week of January 21-27, precipitation is expected to be impactful due to the sheer quantity of liquid falling from the sky.

Accumulated Precipitation (Inches) January 13 - 20, 2024



Statewide extremes:

-The hottest recorded temperature of the week was 84°F at Rio Grande Village in Brewster County on January 19, 2024.

-The coldest recorded temperature of the week was -3°F in the Follet Co-op station in Lipscomb County on January 14, 2024.

-The most precipitation recorded on January 13, 2024-January 20, 2024 was 0.68” at a Co-op site near Itasca, Tx in Hill County.

-1 station a broke record high in the week of January 13-20, 2024.

-152 stations broke record lows for the same week.