



Austin/San Antonio Weather Forecast Office WEATHER EVENT SUMMARY

January 2021 Snow Event South Central Texas

10 January 2021



Courtesy: @tornadotrackers

South Central Texas Snow Event

January 10, 2021

Event Summary

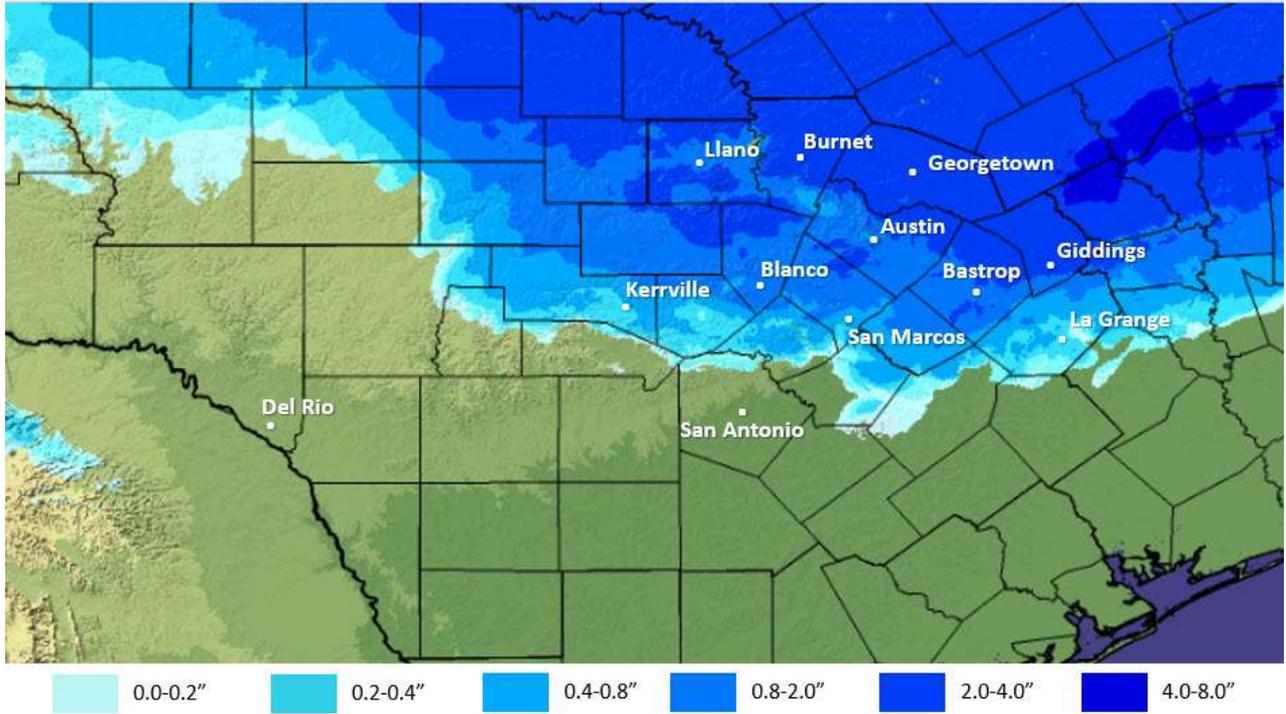
Overview

A strong cold front moved through South-Central Texas during the afternoon hours of Wednesday January 6th. Strong northwest flow in the upper levels of the atmosphere after the 6th persisted for several days allowing the cold air mass to remain in place ahead of the impending snow on January 10th. On January 9th, an upper level low was strengthening over the mountainous west and this system ended up moving through North Texas on the 10th. Ahead of this system, winds just above the surface returned from the south, and led to an increase of lift to support precipitation production.

As the upper level low approached the area during the morning hours of the 10th, it forced colder air around 3-6 kft above the surface to move south. With cold air in place at the surface, once this sub-freezing layer began to move into South-Central Texas, a transition from rain to snow quickly began in the northern Hill Country around 7-8 AM. The rain/snow transition line moved to the southeast throughout the morning and early afternoon hours before stopping as it reached a Leakey to north San Antonio to Schulenburg line. Precipitation ended from southwest to northeast across the area in the early evening hours on the 10th.

Many locations in South-Central Texas saw a decent snowfall for this area, with up to 3 inches of snow was reported in Travis, Lee, Bastrop, and Llano County and up to 4-6 inches reported in Williamson and Llano County. While surface temperatures were cold enough for snow, temperatures actually hovered around 33-34 degrees while the snow was falling. This led to minimal issues on area roadways with only a small number of traffic accidents reported during the event.

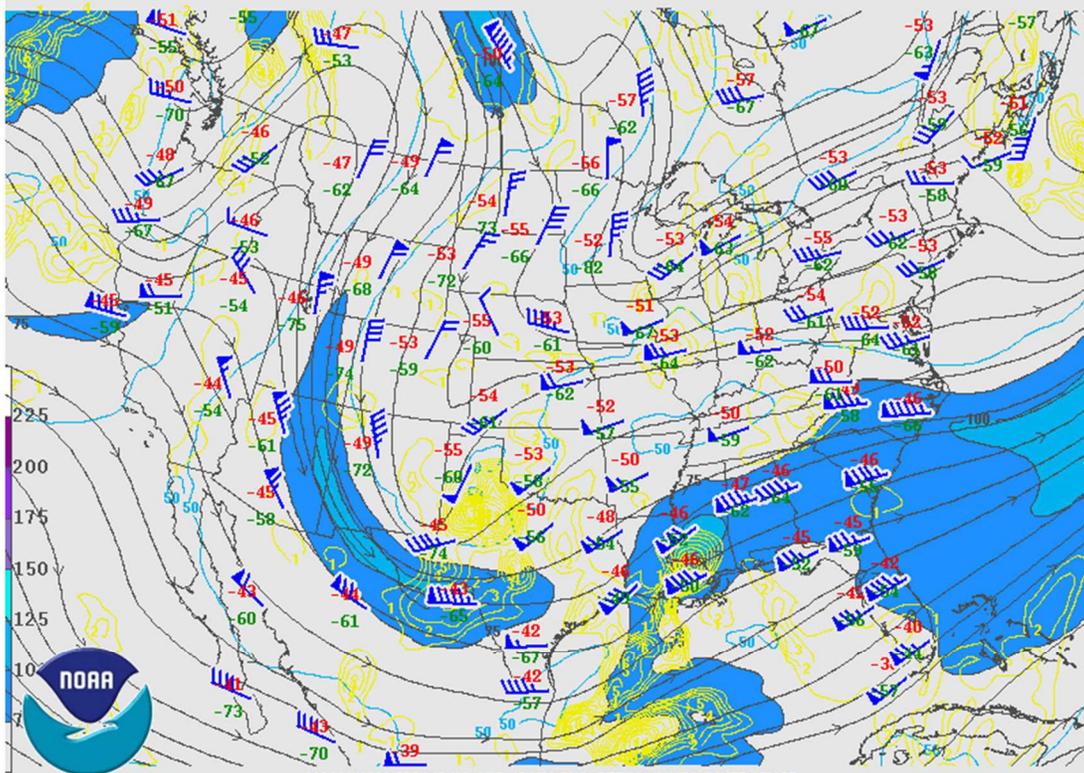
Snowfall Map



Upper Air Analysis

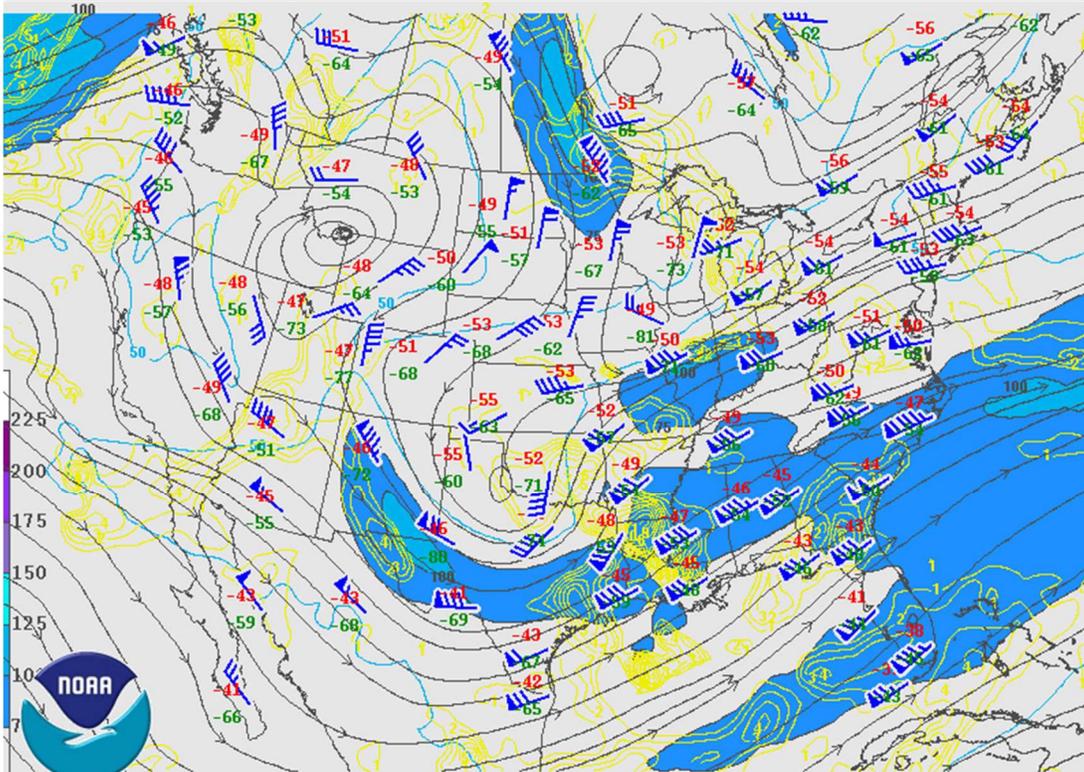
Upper Air Charts for 6AM CST Jan 10th and 6PM CST Dec 11th

300 MB Analysis



National Weather Service
Storm Prediction Center

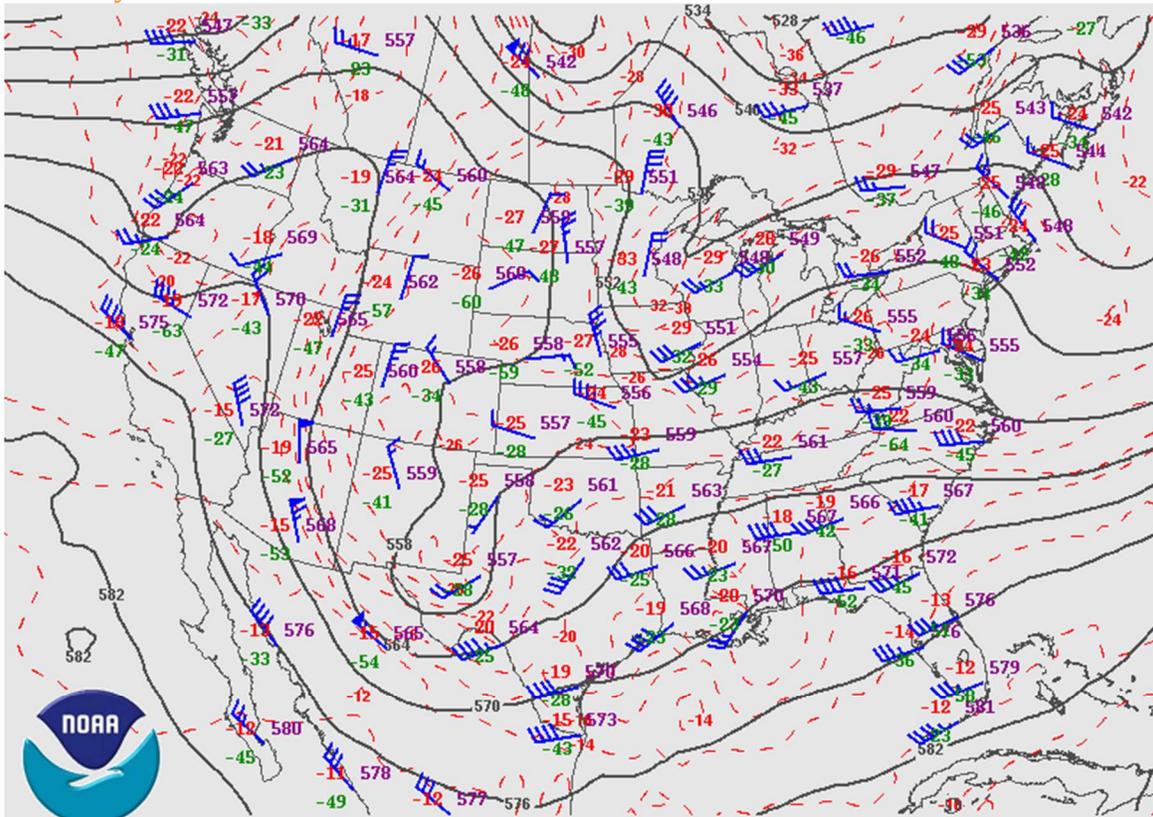
210110/1200 300 MB UA OBS, ISOTACHS, STREAMLINES, DIVERGENCE



National Weather Service
Storm Prediction Center

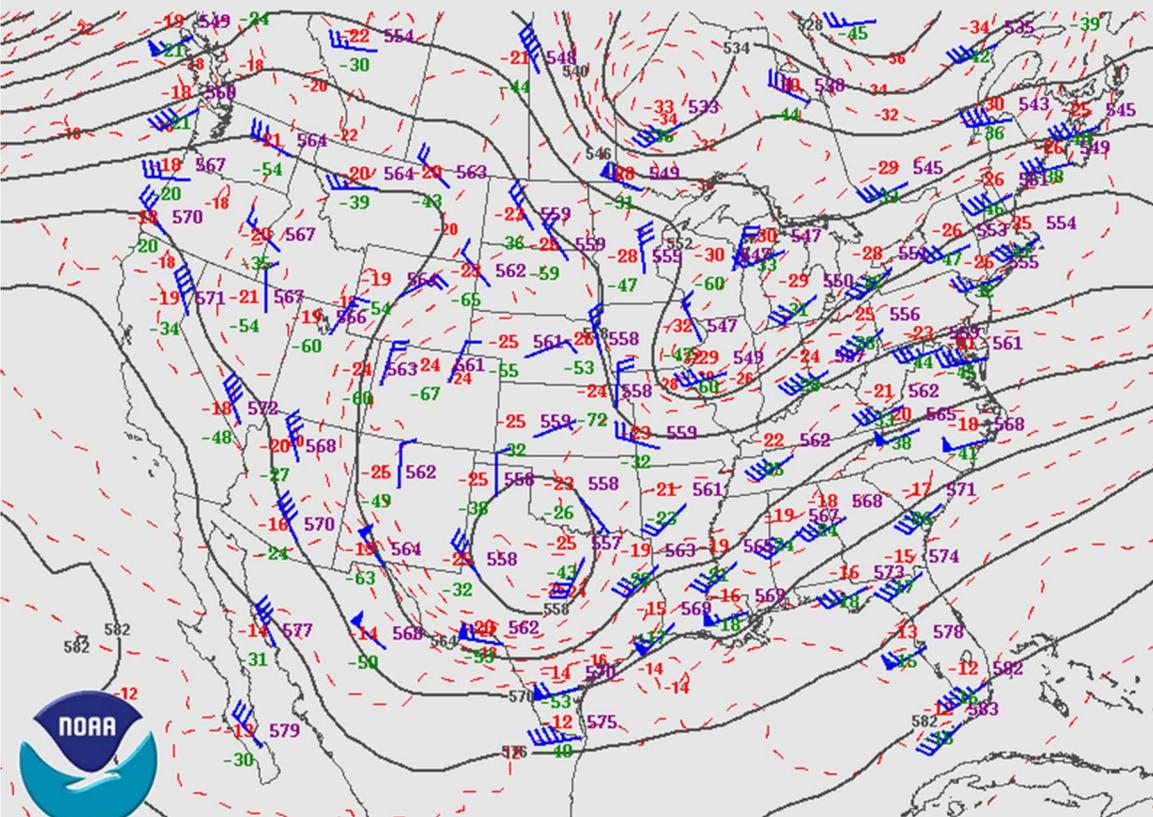
210111/0000 300 MB UA OBS, ISOTACHS, STREAMLINES, DIVERGENCE

500 MB Analysis



National Weather Service
Storm Prediction Center

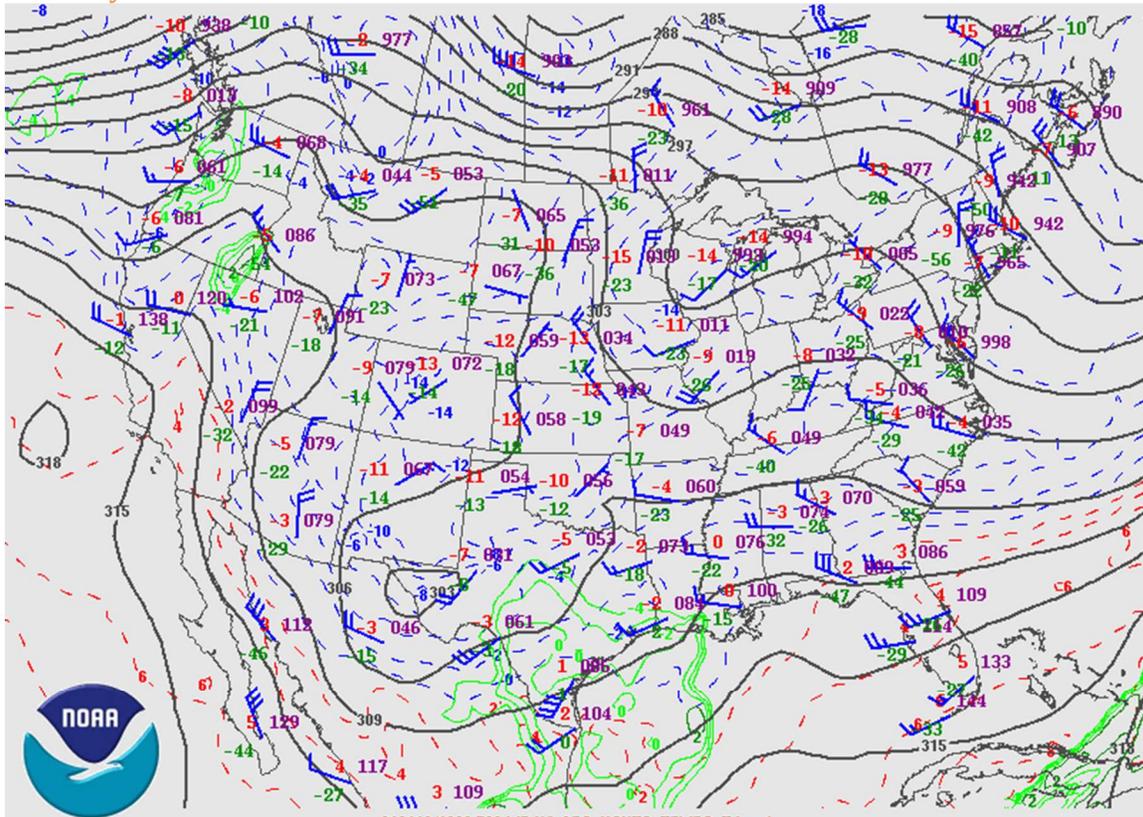
210110/1200 500 MB UA OBS, HGHTS, and TEMPS



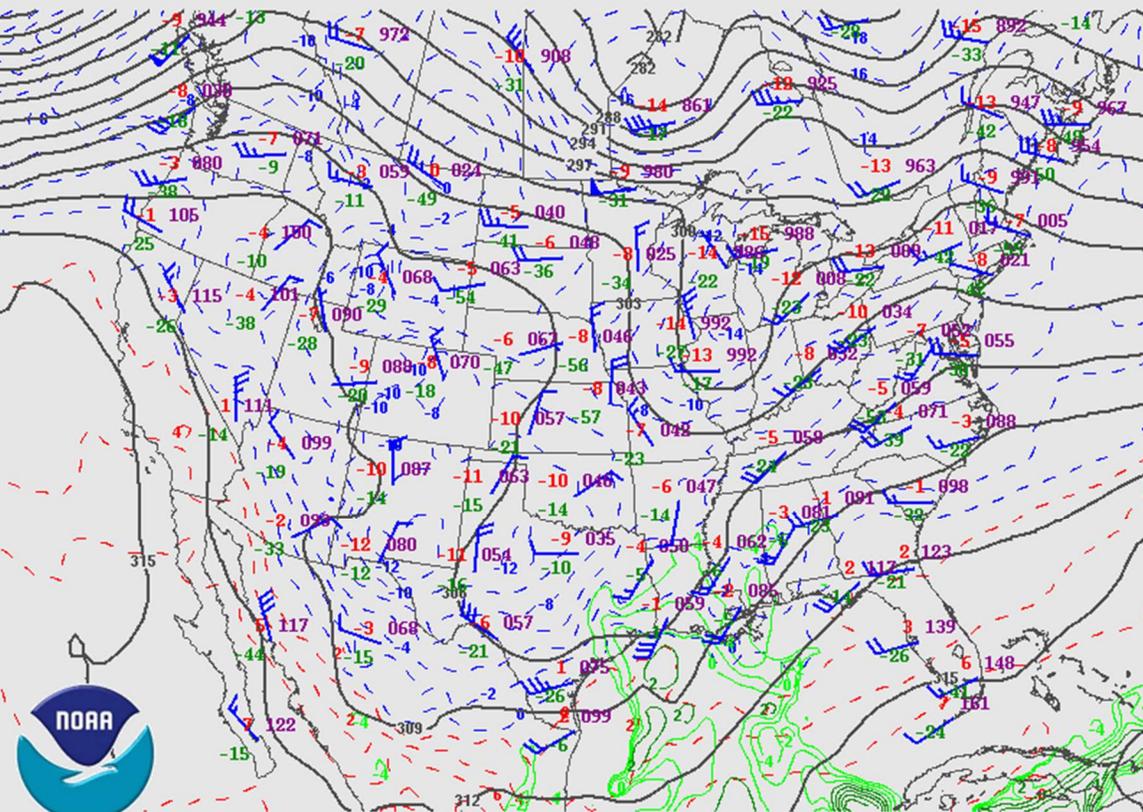
National Weather Service
Storm Prediction Center

210111/0000 500 MB UA OBS, HGHTS, and TEMPS

700 MB Analysis

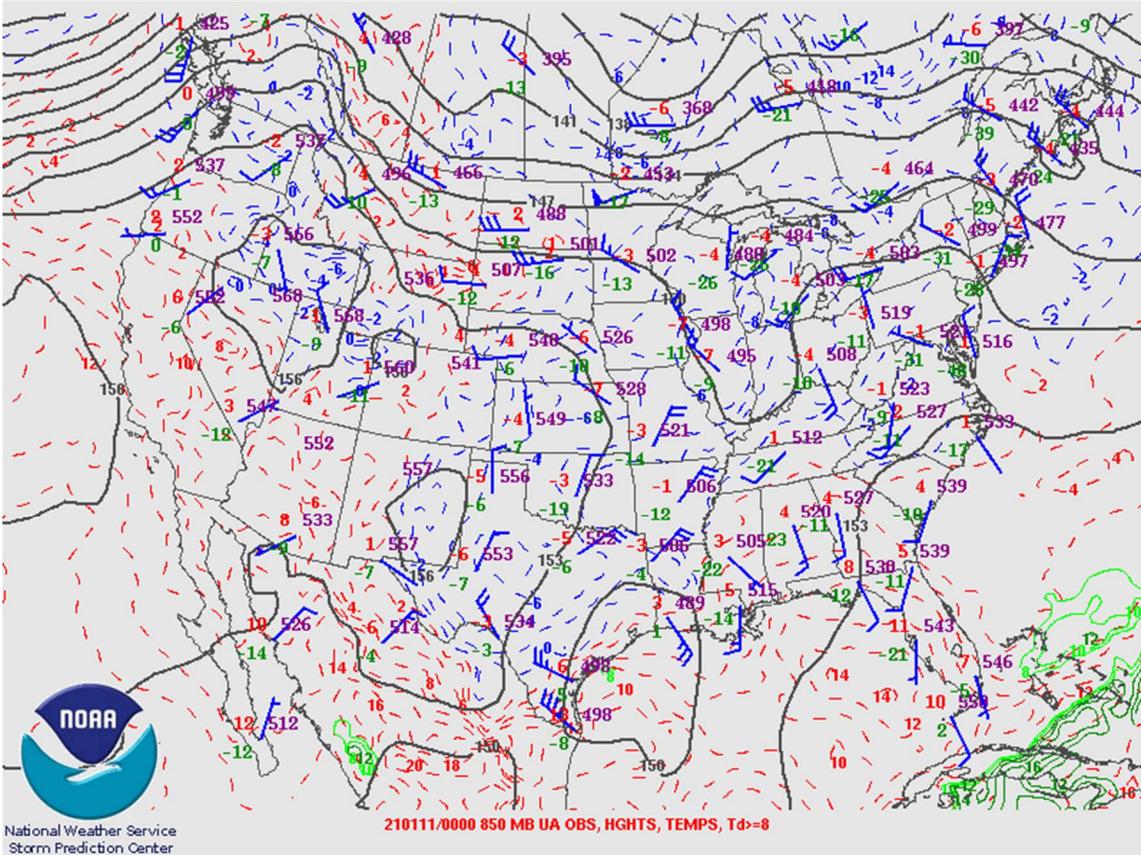
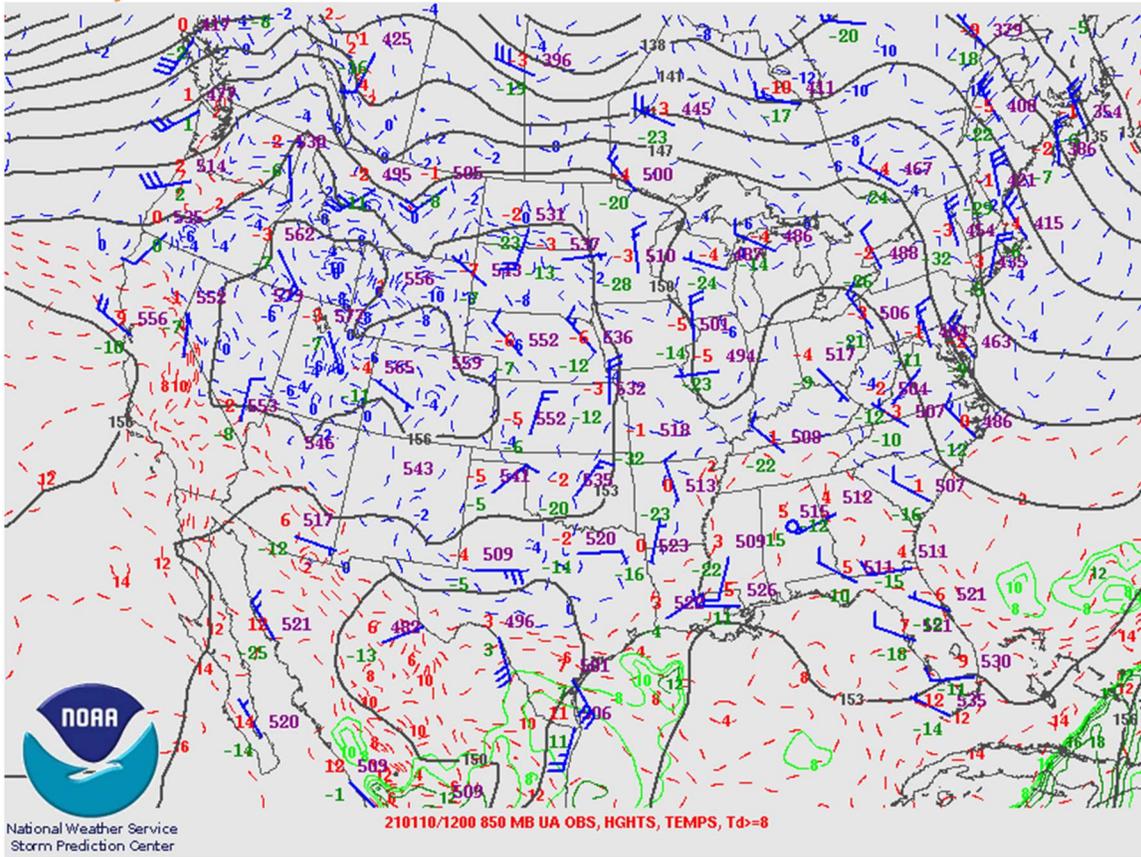


National Weather Service Storm Prediction Center
210110/1200 700 MB UA OBS, HGHTS, TEMPS, Td=-4

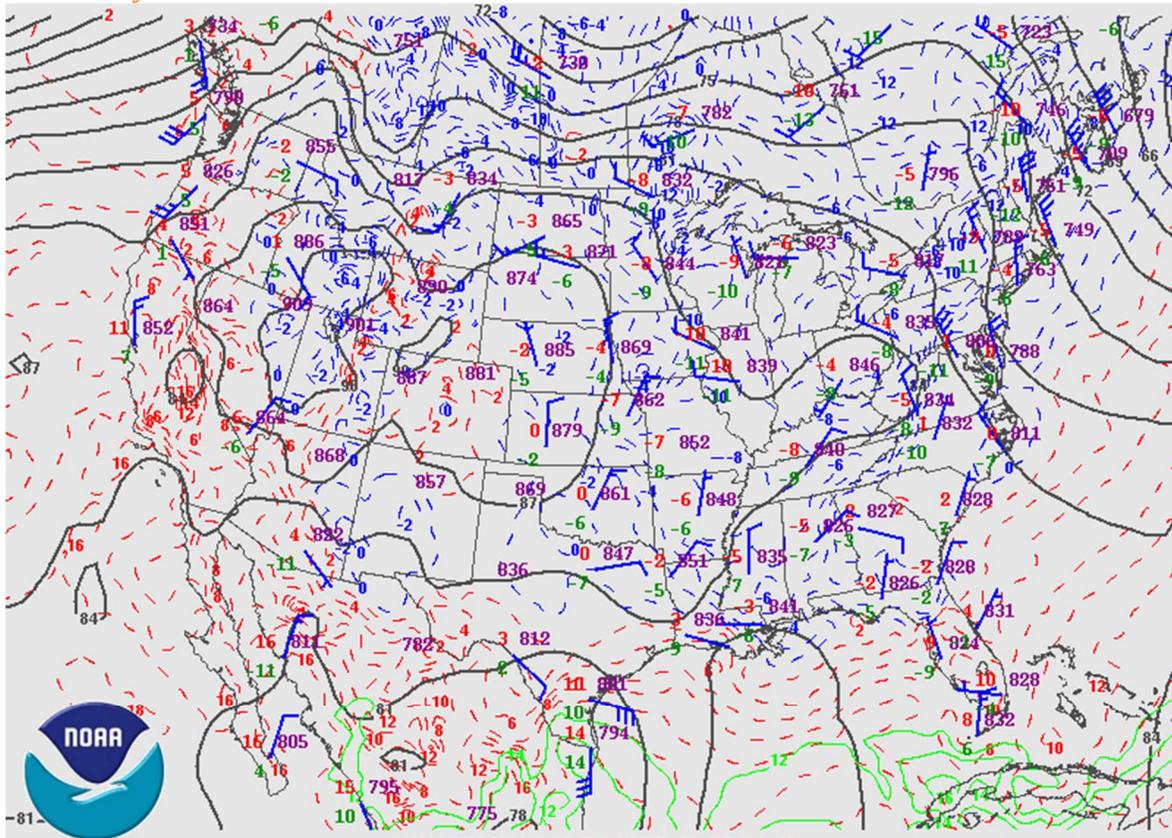


National Weather Service Storm Prediction Center
210111/0000 700 MB UA OBS, HGHTS, TEMPS, Td=-4

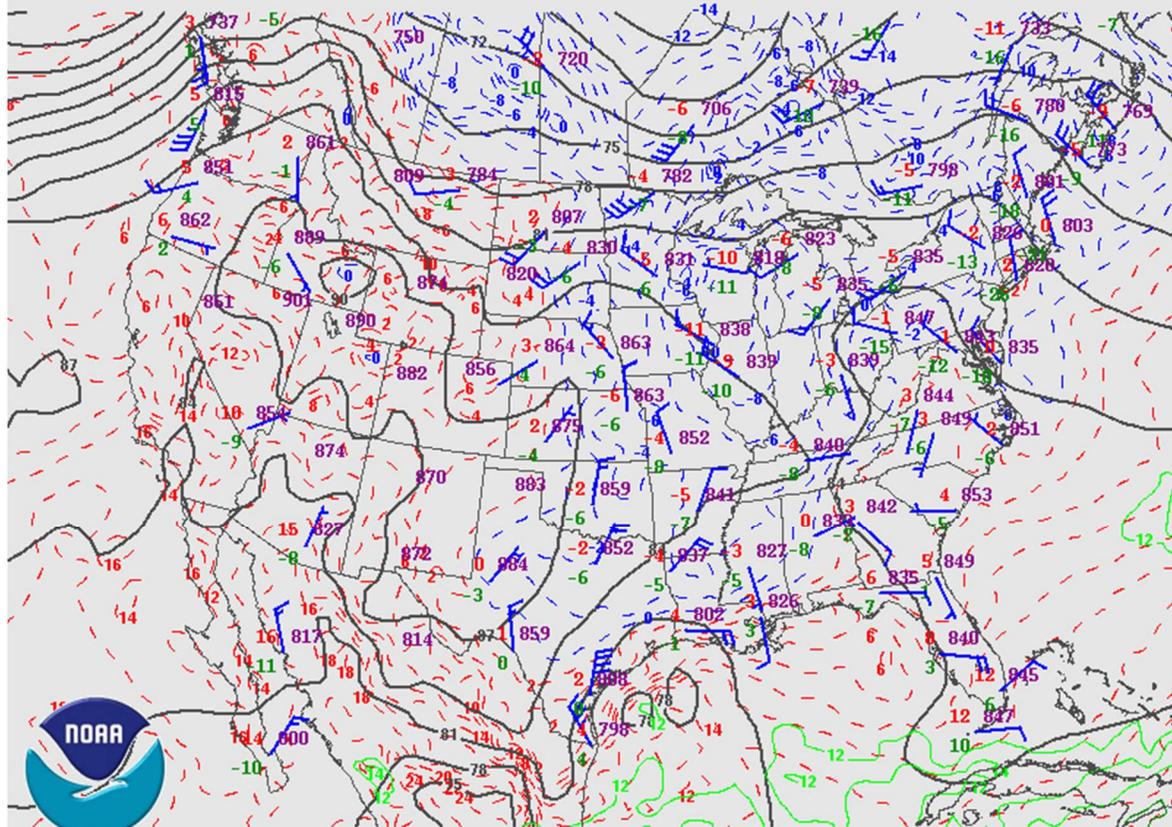
850 MB Analysis



925 MB Analysis



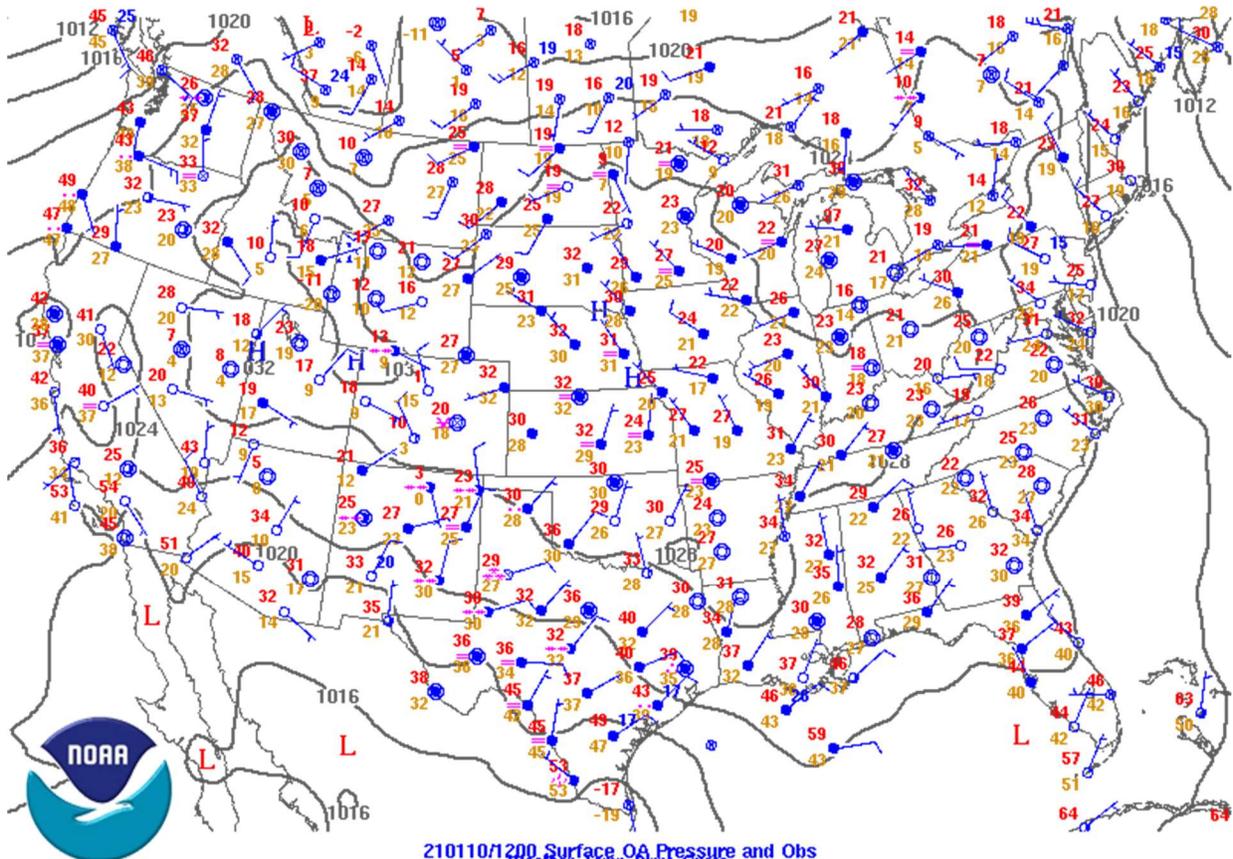
210110/1200 925 MB UA OBS, HGHTS, TEMPS, Td-12



210111/0000 925 MB UA OBS, HGHTS, TEMPS, Td-12

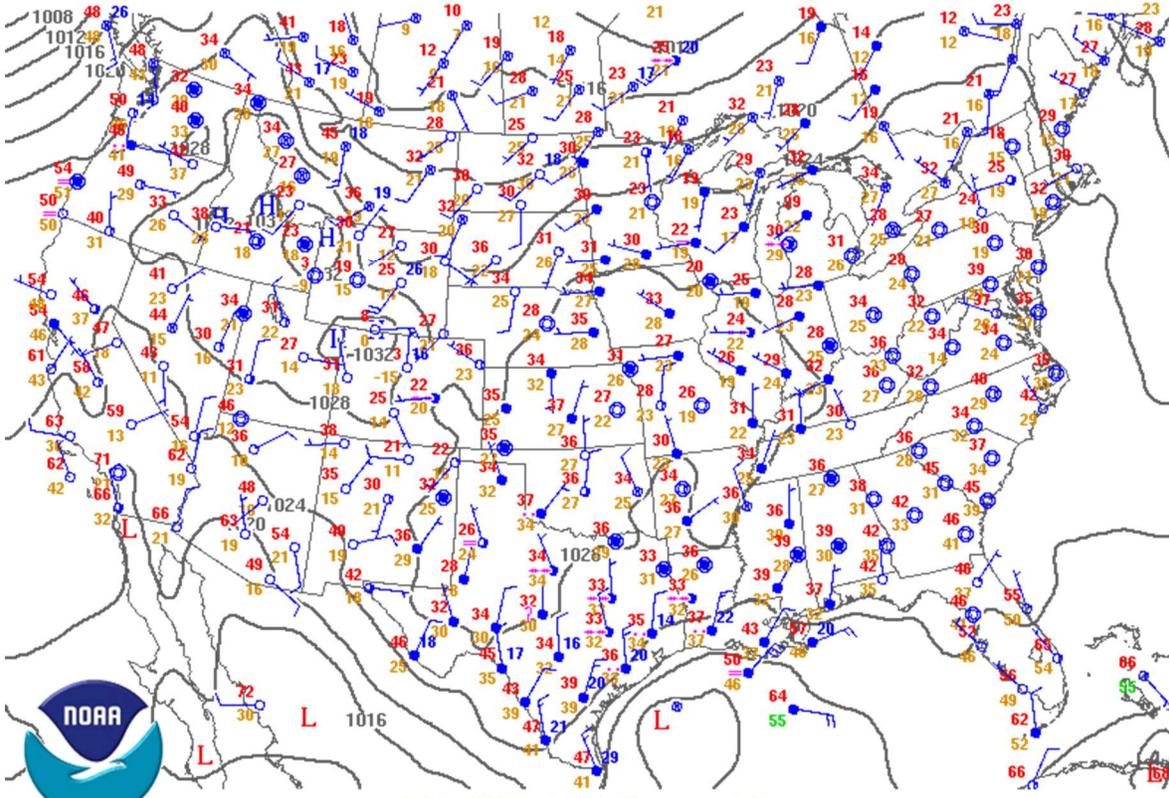


Surface Analysis



210110/1200 Surface OA Pressure and Obs
Weather, Temp, Dwp, Gusts

National Weather Service
Storm Prediction Center



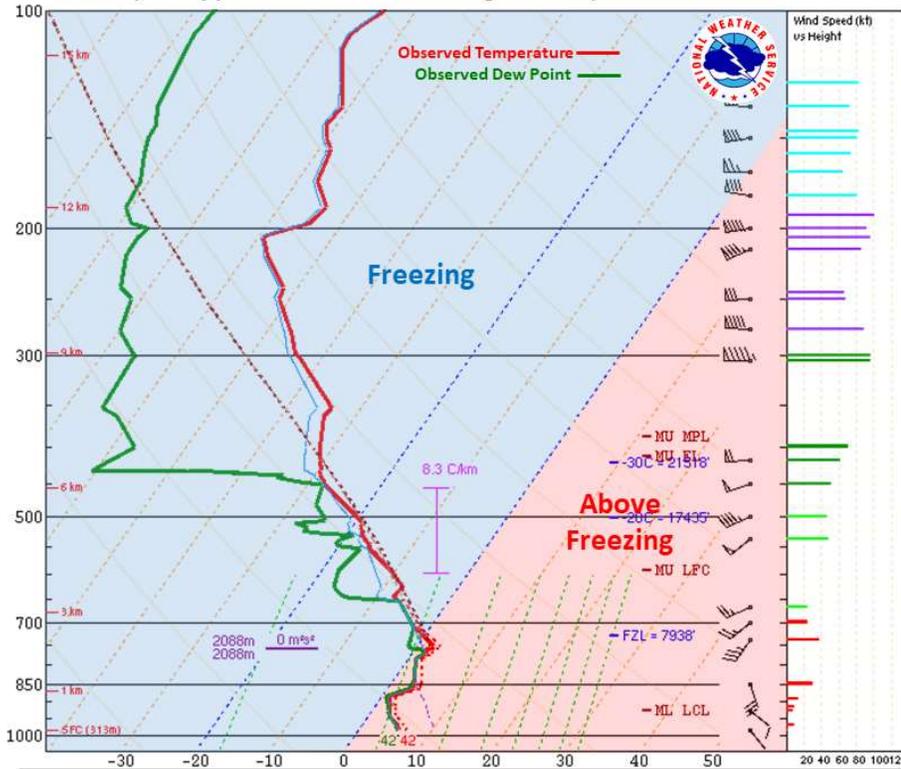
210111/0000 Surface OA Pressure and Obs
Weather, Temp, Dwp, Gusts

National Weather Service
Storm Prediction Center

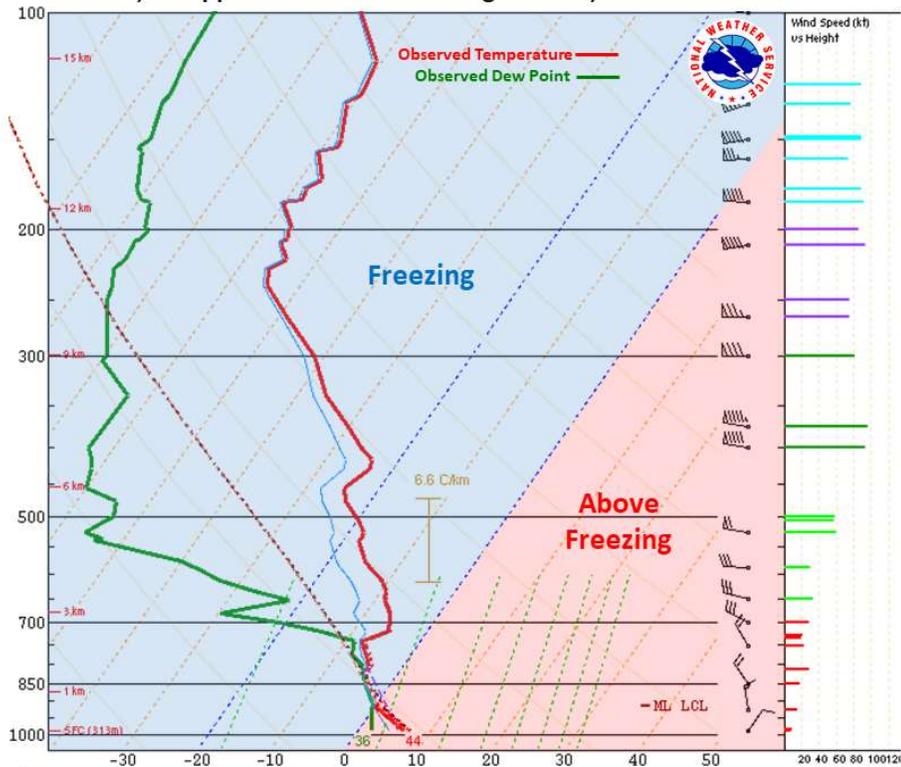
Soundings for 6PM CST Dec 7th and 6AM CST Dec 8th

Del Rio

Del Rio, TX Upper Air Balloon Sounding – Jan 10, 2021 – 6 AM CST

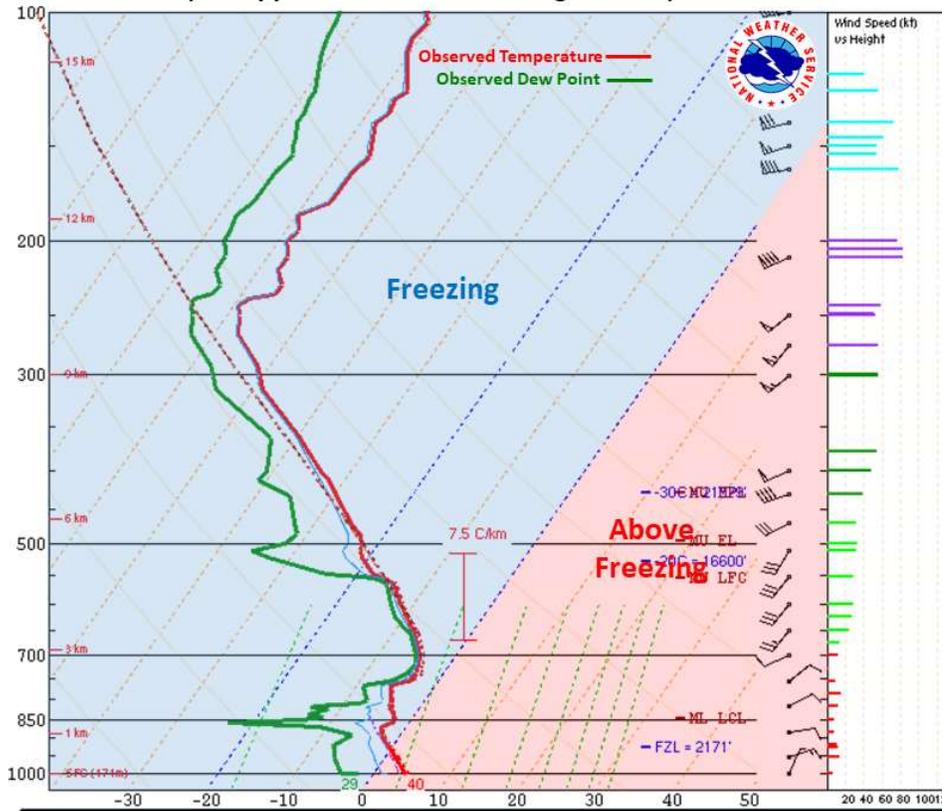


Del Rio, TX Upper Air Balloon Sounding – Jan 10, 2021 – 6 PM CST

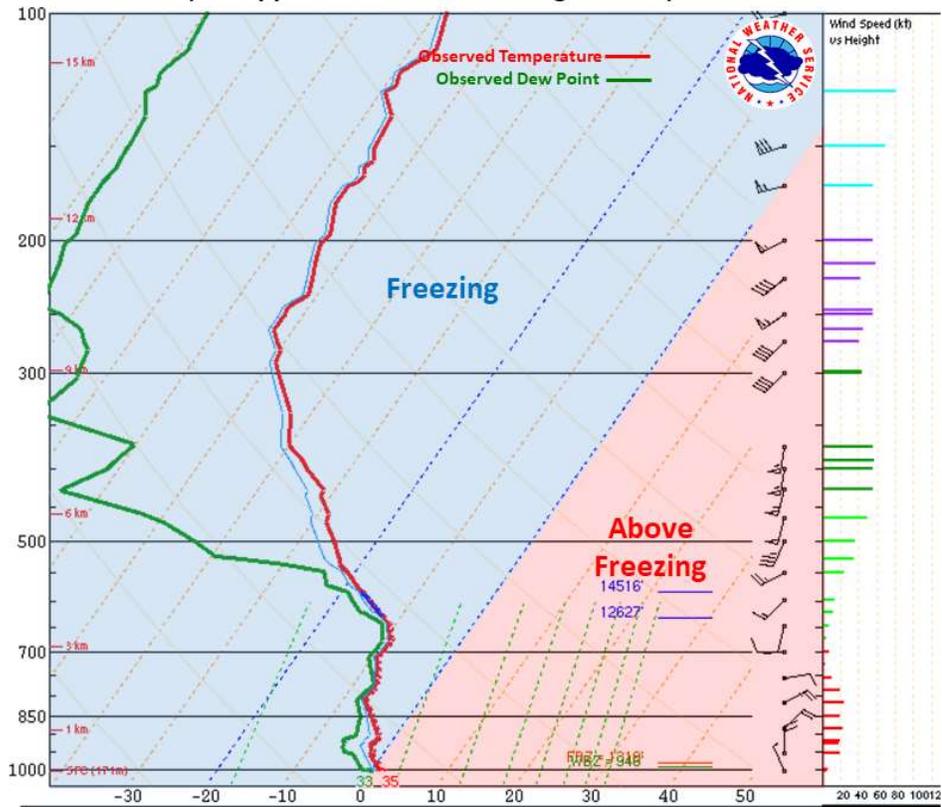


Fort Worth

Fort Worth, TX Upper Air Balloon Sounding – Jan 10, 2021 – 6 AM CST



Fort Worth, TX Upper Air Balloon Sounding – Jan 10, 2021 – 6 PM CST





Snowfall Reports

Public Information Statement

NATIONAL WEATHER SERVICE AUSTIN/SAN ANTONIO TX
941 AM CST MON JAN 11 2021

...SNOWFALL REPORTS...

LOCATION	AMOUNT	TIME/DATE	PROVIDER
...TEXAS...			
...BASTROP COUNTY...			
PAIGE 7.5 NNW	3.0 IN	0700 AM 01/11	COCORAHS
ELGIN 3.8 ENE	2.8 IN	0700 AM 01/11	COCORAHS
BASTROP 2.2 WNW	2.3 IN	0600 AM 01/11	COCORAHS
PAIGE 3.2 SW	2.1 IN	0800 AM 01/11	COCORAHS
BASTROP 6.5 W	2.0 IN	0700 AM 01/11	COCORAHS
DALE 7.6 N	1.8 IN	0700 AM 01/11	COCORAHS
BASTROP 5.8 NE	1.8 IN	0800 AM 01/11	COCORAHS
WYLDWOOD 8.3 SSW	1.6 IN	0730 AM 01/11	COCORAHS
BASTROP 0.8 WSW	1.0 IN	0700 AM 01/11	COCORAHS
...BEXAR COUNTY...			
LIVE OAK 4.6 WNW	0.3 IN	0700 AM 01/11	COCORAHS
...BLANCO COUNTY...			
SPICEWOOD 3.2 S	2.5 IN	0700 AM 01/11	COCORAHS
CYPRESS MILLS 3.1 SE	1.5 IN	0800 AM 01/11	COCORAHS
...BURNET COUNTY...			
BURNET 5.0 NNW	4.0 IN	0700 AM 01/11	COCORAHS
BERTRAM 9.4 NE	3.0 IN	0700 AM 01/11	COCORAHS
BURNET	2.0 IN	0800 AM 01/11	COOP
SPICEWOOD 4.4 NW	1.5 IN	0730 AM 01/11	COCORAHS
...CALDWELL COUNTY...			
MARTINDALE 1.7 NNW	0.2 IN	0700 AM 01/11	COCORAHS
LOCKHART 8.4 ESE	0.2 IN	0700 AM 01/11	COCORAHS
...COMAL COUNTY...			
BULVERDE 1.3 NNE	0.5 IN	0700 AM 01/11	COCORAHS
NEW BRAUNFELS 5.9 NW	0.5 IN	0700 AM 01/11	COCORAHS
NEW BRAUNFELS 2.3 NE	0.4 IN	0800 AM 01/11	COCORAHS
NEW BRAUNFELS 5.6 WNW	0.3 IN	0700 AM 01/11	COCORAHS
NEW BRAUNFELS 3.1 WNW	0.2 IN	0600 AM 01/11	COCORAHS
...GILLESPIE COUNTY...			
FREDERICKSBURG 11.4 NE	2.5 IN	0600 AM 01/11	COCORAHS
...GUADALUPE COUNTY...			
NEW BRAUNFELS 3.3 S	0.1 IN	0800 AM 01/11	COCORAHS



...HAYS COUNTY...

DRIPPING SPRINGS 8.4 W	2.0 IN	0700 AM	01/11	COCORAHS
DRIPPING SPRINGS 6.1 WNW	1.5 IN	0700 AM	01/11	COCORAHS
BUDA 1.9 WNW	1.5 IN	0530 PM	01/10	COCORAHS
WIMBERLEY 3.6 ENE	1.0 IN	0700 AM	01/11	COCORAHS
WIMBERLEY 2.1 SSE	1.0 IN	0750 AM	01/11	COCORAHS
SAN MARCOS 3.7 N	1.0 IN	0700 AM	01/11	COCORAHS
DRIFTWOOD 1.8 NNE	1.0 IN	0230 PM	01/10	COCORAHS
SAN MARCOS 5.5 NNW	0.5 IN	0800 AM	01/11	COCORAHS
WOODCREEK 0.5 SSW	0.3 IN	0800 AM	01/11	COCORAHS

...KENDALL COUNTY...

BOERNE 15.2 N	1.0 IN	1200 PM	01/10	COCORAHS
BOERNE 4.1 NNE	1.0 IN	0800 AM	01/11	COCORAHS
BOERNE 1.2 E	1.0 IN	0700 AM	01/11	COCORAHS
BOERNE 6.5 N	1.0 IN	0700 AM	01/11	COCORAHS
BOERNE 6.3 NW	0.8 IN	0700 AM	01/11	COCORAHS

...KERR COUNTY...

KERRVILLE 1.1 SSW	1.5 IN	0700 AM	01/11	COCORAHS
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...LLANO COUNTY...

BUCHANAN DAM 3.6 SSW	2.0 IN	0600 AM	01/11	COCORAHS
TOW	1.5 IN	0800 AM	01/11	COOP
LLANO 11.6 S	0.7 IN	0700 AM	01/11	COCORAHS

...TRAVIS COUNTY...

PFLUGERVILLE 2.5 NNE	4.0 IN	0430 AM	01/11	COCORAHS
JONESTOWN 2.6 E	4.0 IN	0700 AM	01/11	COCORAHS
LEANDER 4.5 WNW	3.8 IN	0800 AM	01/11	COCORAHS
PFLUGERVILLE 3.1 ENE	2.5 IN	0700 AM	01/11	COCORAHS
PFLUGERVILLE 0.5 N	2.5 IN	0700 AM	01/11	COCORAHS
2.6 SW JOLLYVILLE	2.4 IN	0700 AM	01/11	COOP
LEANDER 1.9 WSW	2.0 IN	0700 AM	01/11	COCORAHS
ANDERSON MILL 2.2 S	2.0 IN	0900 AM	01/11	COCORAHS
TANGLEWOOD FOREST 0.6 NE	1.9 IN	0600 AM	01/11	COCORAHS
AUSTIN 7.0 N	1.8 IN	0800 AM	01/11	COCORAHS
TANGLEWOOD FOREST 2.9 E	1.8 IN	0700 AM	01/11	COCORAHS
AUSTIN 5.6 WSW	1.7 IN	0700 AM	01/11	COCORAHS
AUSTIN 1.7 NNW(45TH&LP1)	1.5 IN	0830 AM	01/11	COCORAHS
AUSTIN 2.8 N(ALLANDALE)	1.5 IN	0230 PM	01/10	COCORAHS
AUSTIN 3.8 N	1.5 IN	0700 AM	01/11	COCORAHS
SUNSET VALLEY 0.7 SE	1.0 IN	0700 AM	01/11	COCORAHS

...WILLIAMSON COUNTY...

ROUND ROCK 1.6 WSW	4.5 IN	0700 AM	01/11	COCORAHS
LEANDER 1.7 NNW	4.0 IN	0700 AM	01/11	COCORAHS
COUPLAND 6.5 ESE	3.5 IN	0600 AM	01/11	COCORAHS
ANDICE 1.6 SW	3.5 IN	0725 AM	01/11	COCORAHS
GEORGETOWN 5.9 NNW	3.2 IN	0700 AM	01/11	COCORAHS
GEORGETOWN 5.3 NNW	3.0 IN	0700 AM	01/11	COCORAHS
GEORGETOWN 6.7 NNW	2.9 IN	0420 PM	01/10	COCORAHS
GEORGETOWN 6.7 NNW	2.9 IN	0900 AM	01/11	COCORAHS
GEORGETOWN 6.5 NNW	2.7 IN	0700 AM	01/11	COCORAHS
ROUND ROCK 3.7 E	2.1 IN	0800 AM	01/11	COCORAHS
LIBERTY HILL 1.2 N	1.2 IN	0700 AM	01/11	COCORAHS

Snow Photos

Photos from the Austin/San Antonio Weather Forecast Office on the morning of December 8, 2017:



Kenny Pailles – Anderson Mills



JuanAlanis Jr. – Leander



@tornadotrackers – Georgetown



Sean T. – Austin



John Buckley – Cypress Mill



@tornadotrackers – Georgetown



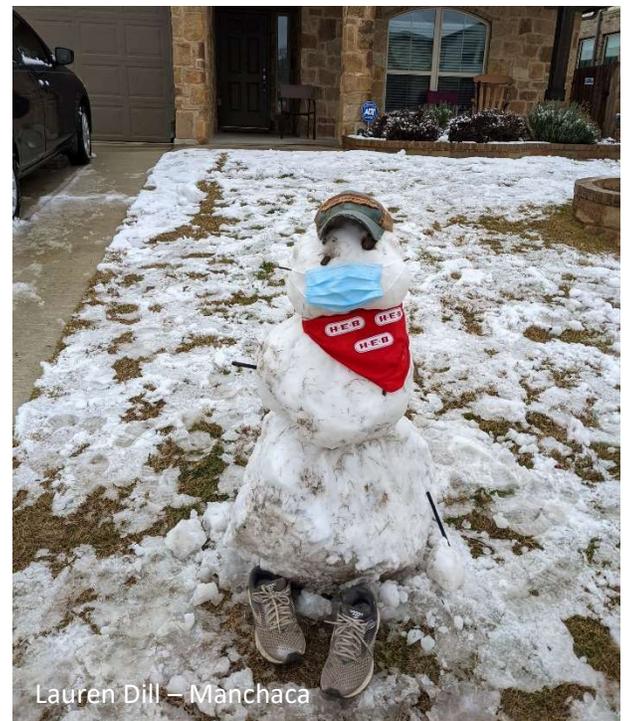
Will Leverett – Riley Mountain (Southern Llano County)



Robert A. – Northeast Austin



Tom Gunter – Lake Pflugerville



Lauren Dill – Manchaca



Braniff Davis – North Austin



Heather – Austin Well Branch



Al – Austin