

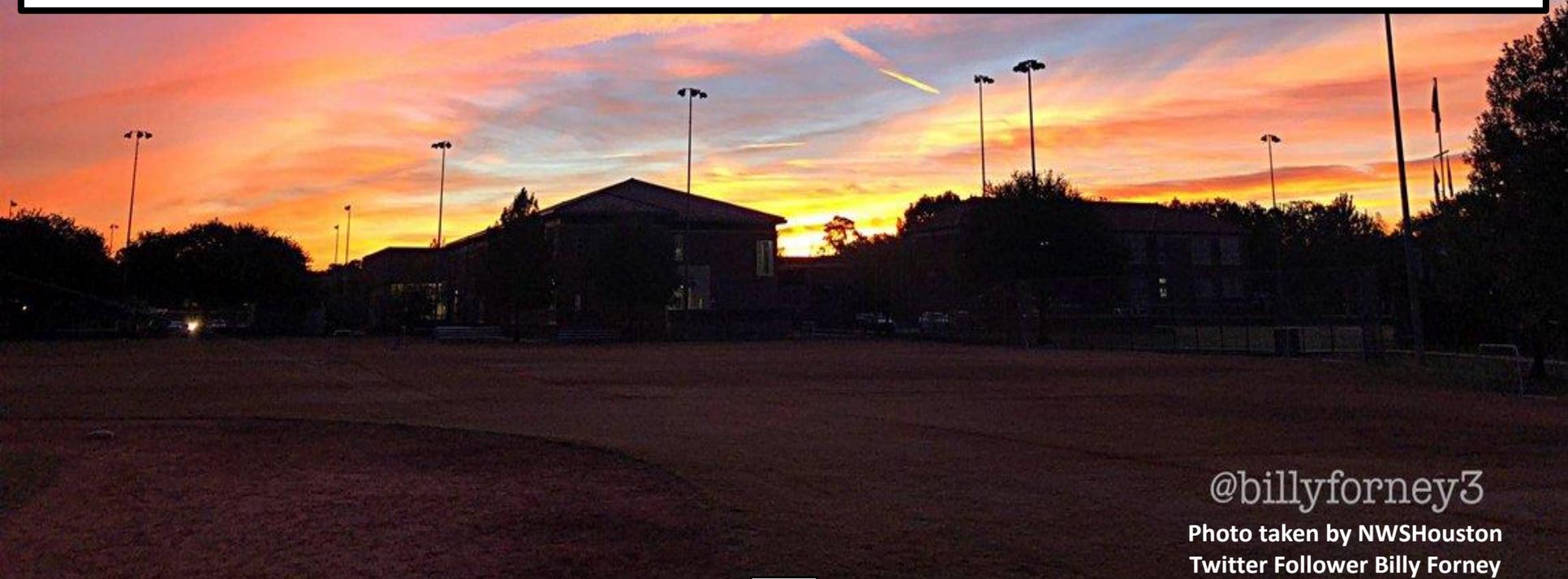


NWS Houston, Texas November 2018 Regional Climate Summary

Produced by Nikki Hathaway

. . . A Chilly November Brought Record Breaking Snowfall . . .

Below normal temperatures kept the month of November on the chilly side, although the first week of the month brought above normal temperatures. Twelve daily temperature records were broken in total, with three daily snowfall records broken specifically at the City of Houston, College Station, and Houston Hobby on November 13th. Below normal rainfall totals also occurred across much of the region with monthly deficits between one to three inches.



@billyforney3

Photo taken by NWSHouston
Twitter Follower Billy Forney

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Precipitation

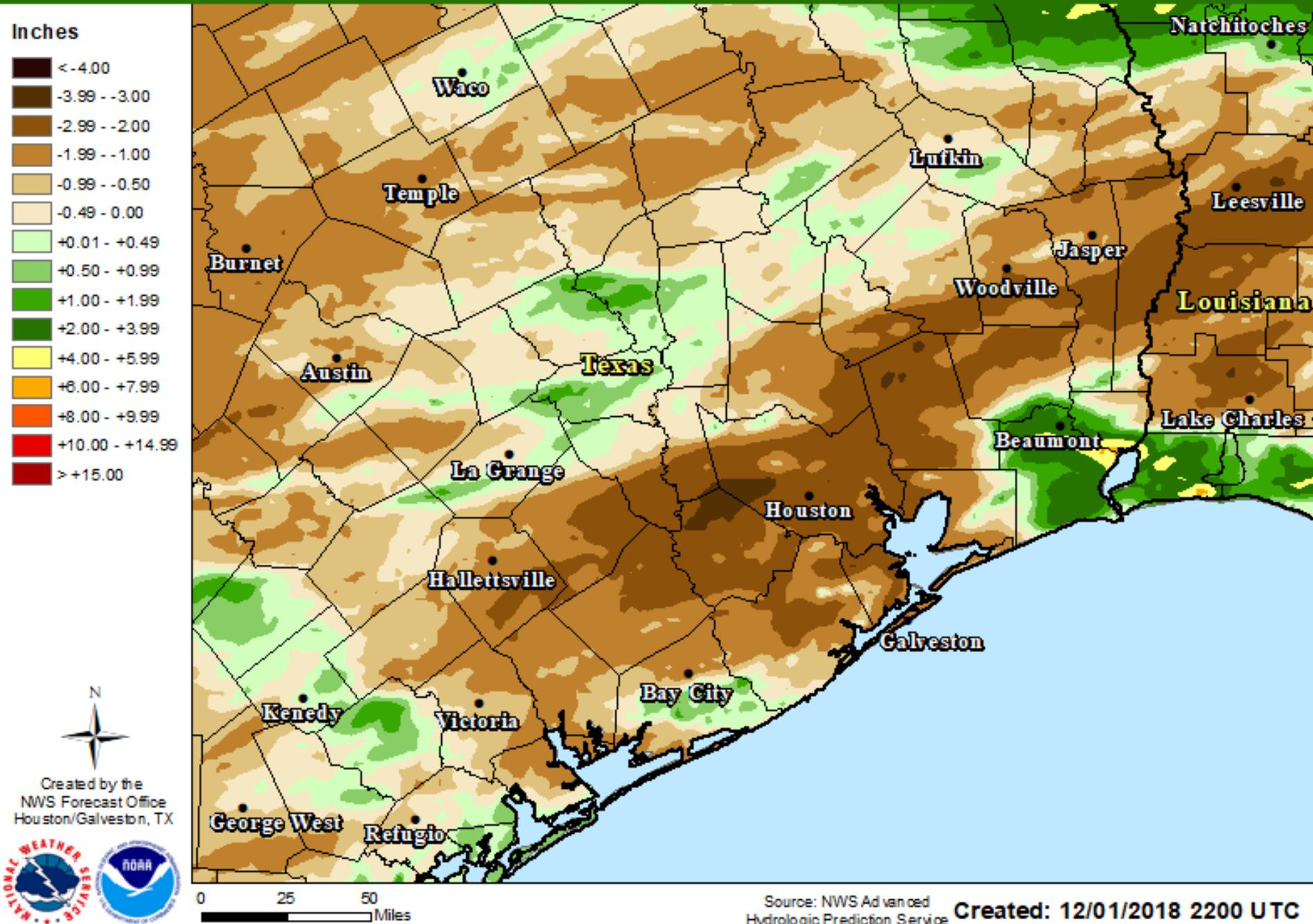
The first few days of November brought dry weather as an area of high pressure sat overhead. By November 4th, rainfall returned to the forecast as a cold front passed through the area. The second week of the month brought the most rain associated with a few coastal low pressure systems which pushed warm fronts north along the coast and at times further inland. This also helped to bring precipitation in small quantities across the region. Multiple cold fronts continued to push through SE TX and wintry precipitation was even seen on November 13th as the freezing line dipped southward across the state of Texas, Louisiana and even southern portions of Mississippi. Behind most of these cold fronts were regions of high pressure which helped to keep conditions drier than normal. The second half of the month was definitely drier than the first, with mostly high pressure overhead and the progression of a few dry cold fronts. Overall, most of the climate sites ended the month of November with a rainfall deficit between one to three inches.

Site	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days	Maximum Daily Precipitation (in./date)
Galveston (GLS)	2.19	-2.32	5	2.12 Oct 31 into Nov 1st
Houston Hobby (HOU)	1.84	-2.48	5	2.60 Oct 31 into Nov 1st
City of Houston (IAH)	1.76	-2.58	3	2.26 Oct 31 into Nov 1st
College Station (CLL)	3.97	0.75	4	2.47 Nov 4th



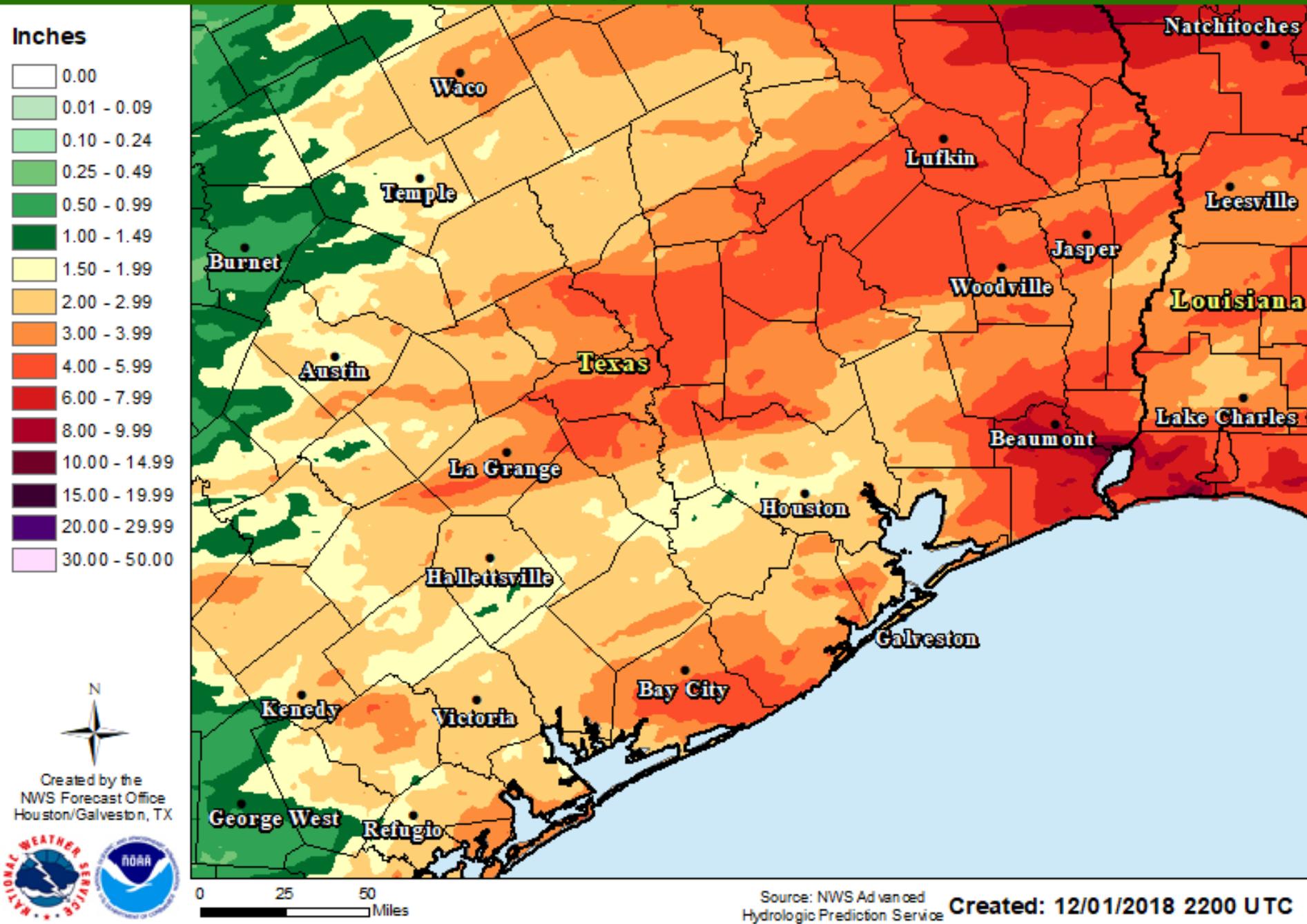
Precipitation (Continued)

Total Monthly Precipitation Departure From Normal - November 2018



Precipitation (Continued)

Total Monthly Precipitation - November 2018



Wintery Precipitation: November 13th

Site	Snowfall	Wintery Precipitation Recorded
IAH	T	Light Snow & Ice Pellets
GLS	0.00	None
CLL	T	Light Snow
HOU	T	Graupel
CXO	T	Light Snow
HGX	T	Light Snow
UTS	0.00	None
DWH	0.00	None
SGR	0.00	None
LBX	0.00	None
PSX	0.00	None
LVJ	0.00	None

Snowfall records were recorded at the City of Houston (IAH), Houston Hobby (HOU), and the City of College Station (CLL).



Temperatures

Temperatures fluctuated drastically throughout the month of November with daily departures from normal swinging from fifteen to twenty degrees below normal to ten to fifteen degrees above normal at times. Overall, monthly average temperatures were below normal by three to five degrees. Multiple strong cold fronts helped to bring in these colder than seasonal normal temperatures.

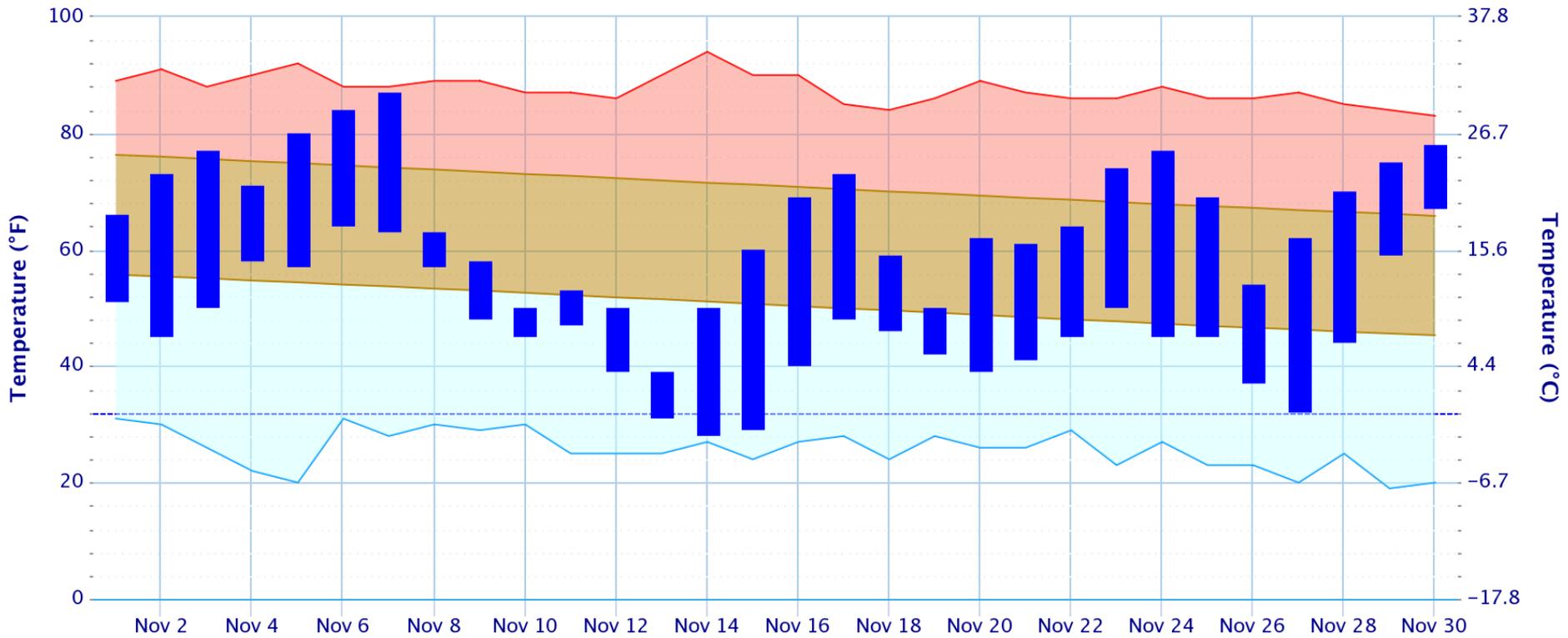
Site	Average Temp (F)	Average High Temp (F)	Average Low Temp (F)	Normal Average Temp (F)	Departure From Normal (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	61.7	68.1	55.3	65.1	-3.4	84 on November 7th and 6th	37 on November 14th
Houston Hobby (HOU)	59.5	68.2	50.8	63.2	-3.7	88 on November 7th and 6th	32 on November 15th
City of Houston (IAH)	58.7	68.2	49.1	62.3	-3.6	89 on November 7th	30 on November 15th
College Station (CLL)	55.8	65.3	46.4	60.8	-5.0	87 on November 7th	28 on November 14th



Monthly Temperature Charts

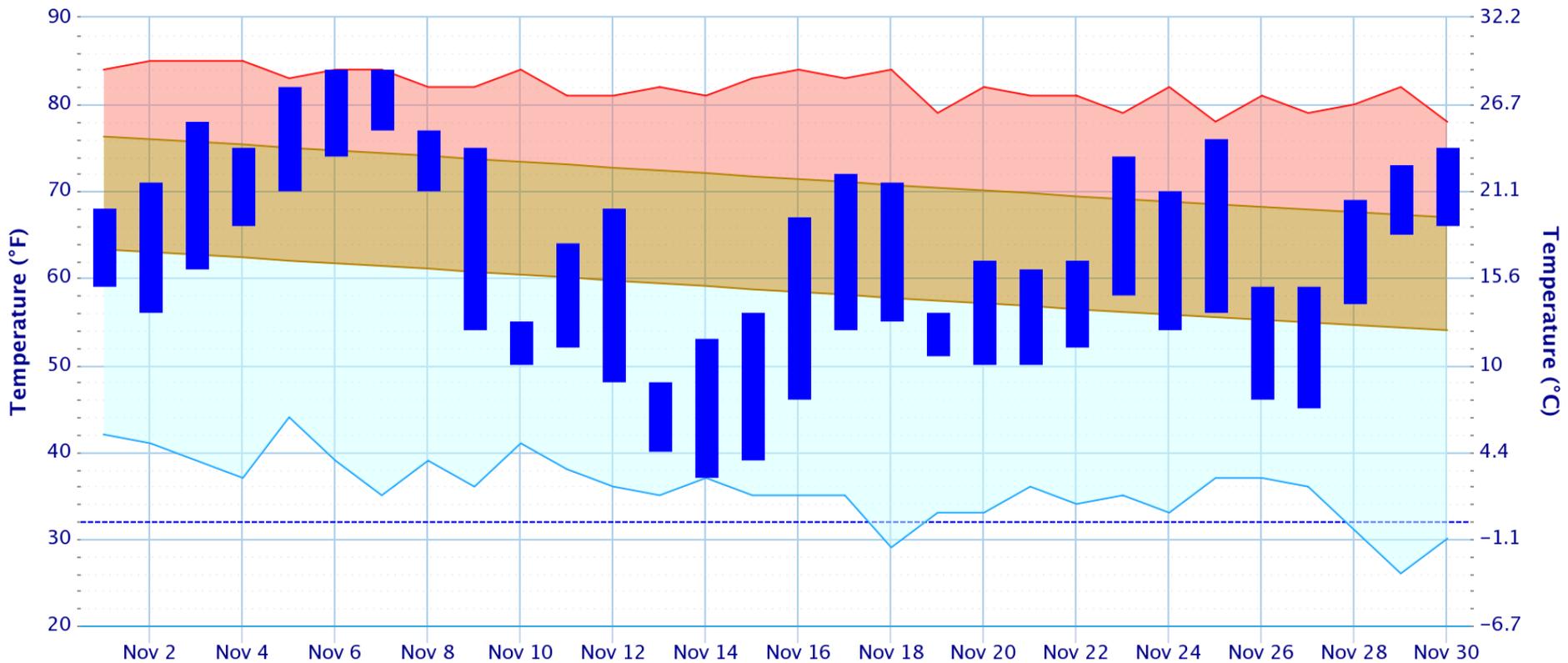
Daily Temperature Data – College Station Area, TX (ThreadEx)

Period of Record – Max temperature: 1888-10-01 to 2018-11-30; Min temperature: 1882-05-15 to 2018-11-30. Normals period: 1981-2010. Click and drag to zoom chart.



Daily Temperature Data – Galveston Area, TX (ThreadEx)

Period of Record – 1874-05-10 to 2018-11-30. Normals period: 1981-2010. Click and drag to zoom chart.



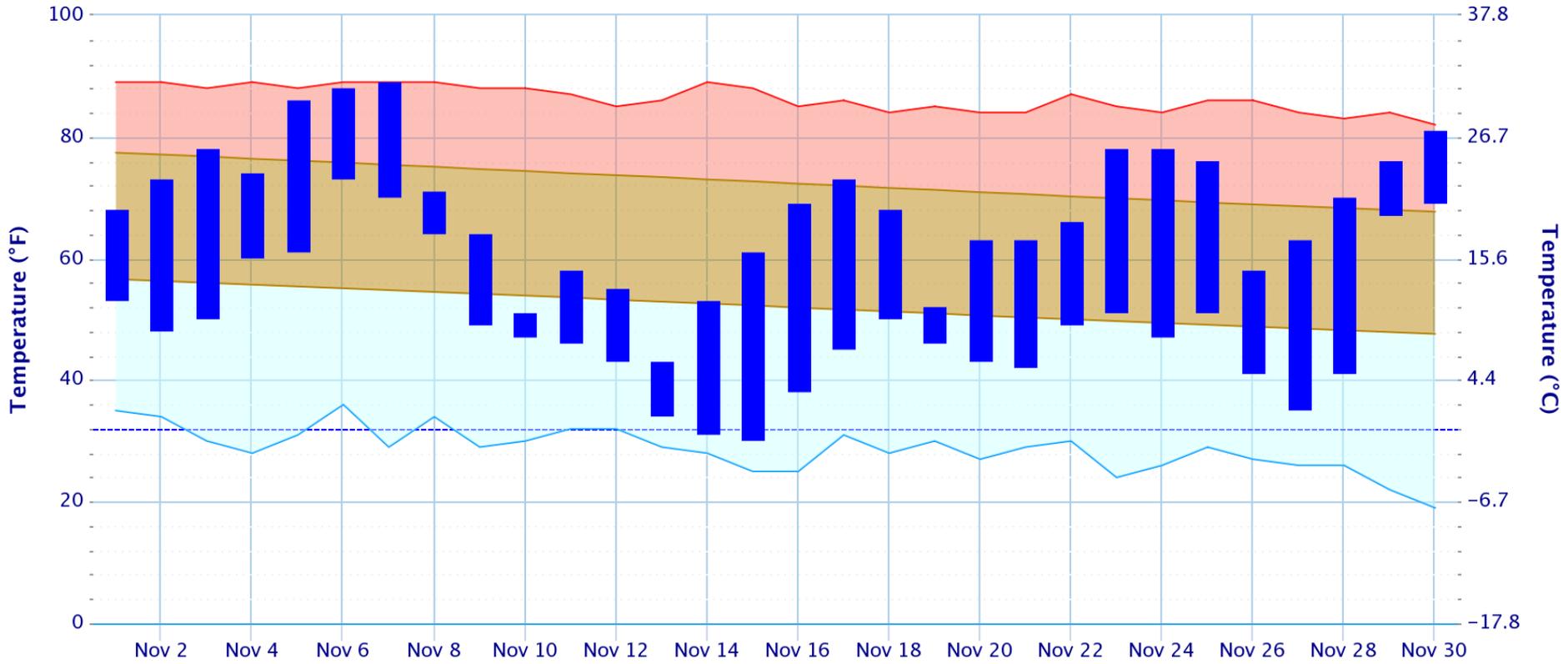
● Observed temperature range (2018) ● Normal temperature range — Record Max — Record Min



Monthly Temperature Charts (continued)

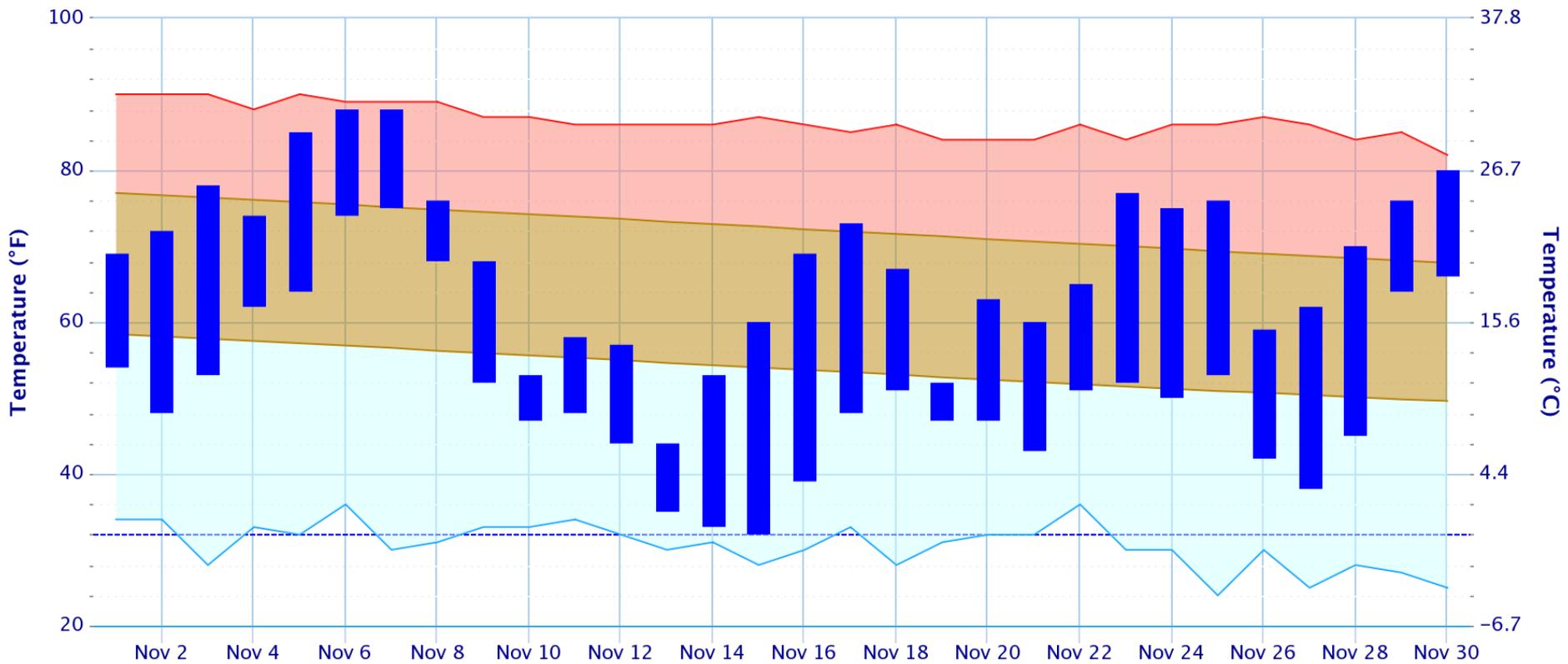
Daily Temperature Data – Houston Area, TX (ThreadEx)

Period of Record – 1889-05-01 to 2018-11-30. Normals period: 1981-2010. Click and drag to zoom chart.



Daily Temperature Data – HOUSTON WILLIAM P HOBBY AP, TX

Period of Record – 1930-08-01 to 2018-11-30. Normals period: 1981-2010. Click and drag to zoom chart.



● Observed temperature range (2018) ● Normal temperature range — Record Max — Record Min



Drought Conditions

The month of November ended with no locations in drought across SE TX.

Most Recent Drought Map
Posted: November 27th



Intensity:

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

Drought Conditions
(Percent Area)

Source:
<http://droughtmonitor.unl.edu>

None	D0-D4	D1-D4	D2-D4	D3-D4	D4
100.00	0.00	0.00	0.00	0.00	0.00



November Daily Record Reports

A total of 15 daily records were set across the four primary climate sites.

Site	Date	Record Type	New Record	Previous Record
Houston Hobby	Nov. 6 th	High Min Temp	74°	73° in 2017
City of Houston	Nov. 6 th	High Min Temp	73°	73° in 2017
City of Galveston	Nov. 6 th	High Max Temp	84°	83° in 2017
City of Galveston	Nov. 7 th	High Max Temp	84°	83° in 2017
City of Galveston	Nov. 7 th	High Min Temp	77°	75° in 2017
Houston Hobby	Nov. 7 th	High Min Temp	75°	72° in 1989
City of Houston	Nov. 7 th	High Min Temp	74°	72° in 1989
City of Houston	Nov. 7 th	High Max Temp	89°	88° in 2017
Houston Hobby	Nov. 13 th	Snowfall	T	0.00 in 2017
City of Houston	Nov. 13 th	Snowfall	T	0.00 in 2017
City of College Station	Nov. 13 th	Low Max Temp	39°	Tied in 1976
City of College Station	Nov. 13 th	Snowfall	T	0.00 in 2017
City of Galveston	Nov. 14 th	Low Min Temp	37°	37° in 1940
City of College Station	Nov. 30 th	High Min Temp	67°	65° in 2014
City of Houston	Nov. 30 th	High Min Temp	69°	69° in 1991



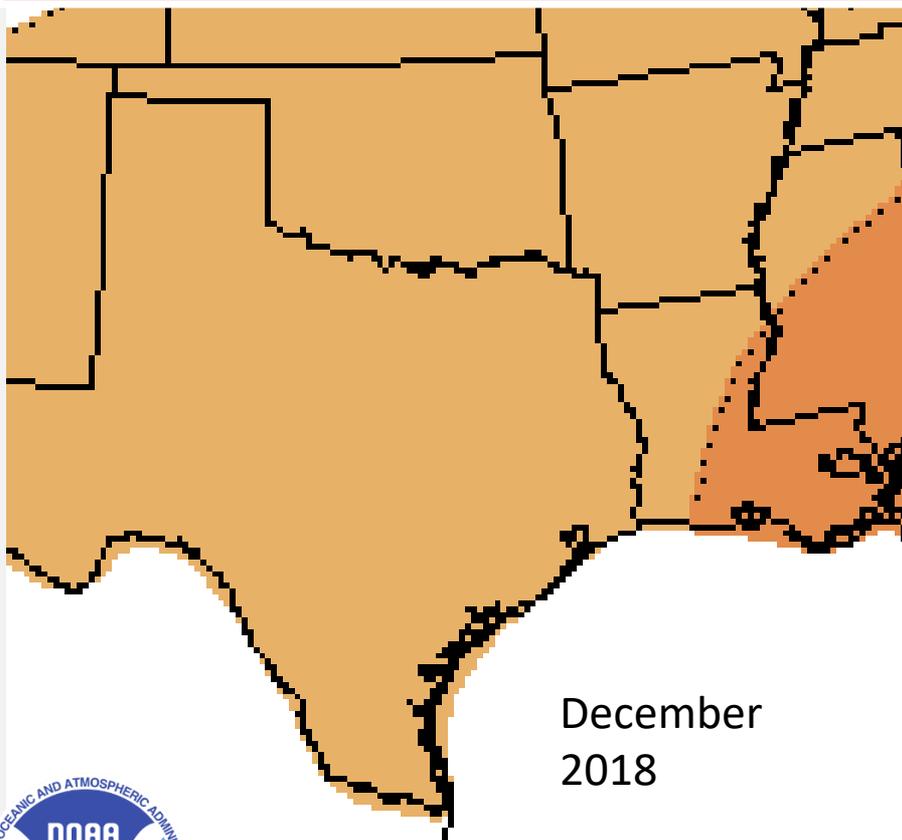
December Outlook

For December, the latest outlook from the Climate Prediction Center (CPC) calls for a 33.3% chance of above normal temperatures, a 33.3% chance of near normal temperatures and a 33.3% chance of below normal temperatures across Southeast Texas. The precipitation outlook has roughly a 40% probability of above normal rainfall, a 33.3% chance of near normal rainfall and a 26.7% chance of below normal rainfall.

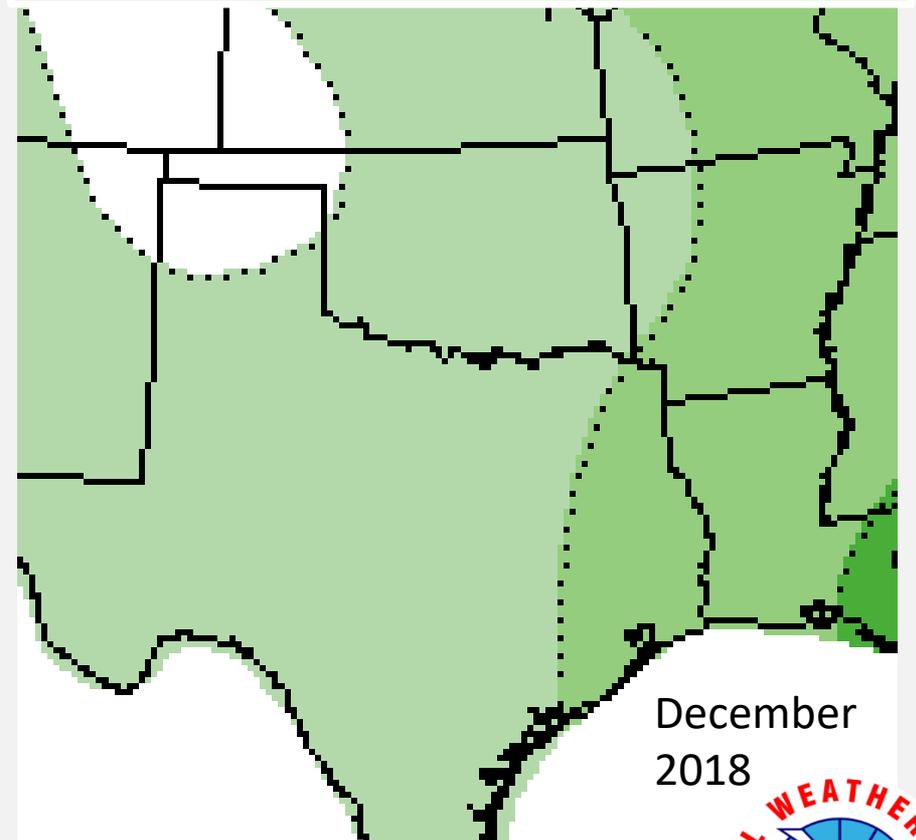
Site	Average Temp(°F)	Normal High (°F)	Normal Low (°F)
Galveston	57.3	63.9	50.7
Houston Hobby	55.6	64.5	46.7
City of Houston	54.4	64.3	44.6
College Station	52.2	62.3	42.2

Site	Normal Monthly Precipitation (in.)
Galveston (GLS)	3.52
Houston Hobby (HOU)	4.03
City of Houston (IAH)	3.74
College Station (CLL)	3.23

Temperature Outlook



Precipitation Outlook



Climate Primary Site History

Galveston (GLS)

Records for Galveston are from observations at the following locations: 67-69 Strand (April 1, 1871 - Aug 31, 1874); 23rd and the Strand (Sep 1, 1874 - July 29, 1878), 1.75 miles WSW of the previous location; the Custom House at Bath Street and the Strand (July 30, 1878 - May 8, 1882); Colorado and Sante Fe Railroad Building at 25th and the Strand (May 9, 1882 - March 14, 1883); back to the Custom House which later became the Cotton Exchange Building (March 15, 1883 - June 24, 1898), about a 1/3 of a mile E of the previous Custom House location; The Levy Building at 2223 Market Street (June 25, 1898 - Nov 26, 1900); the Trust Building at Tremont and Post Office Streets (Nov 27, 1900 - June 24, 1946), one-quarter mile south of the Levy Building; the U.S. Post Office Building at 601 Rosenberg (June 25, 1946 - 1994); Scholes Field (January 1995 to present).

Houston Hobby (HOU)

Records are based upon observations beginning in August 1931.

City of Houston (IAH)

Records for the City of Houston are from observations at the following locations: Cotton Station from July 1881 through September 1909, Stewart Building at Preston and Fannin from September 1909 through February 1926, Shell Building at Texas and Fannin from March 1926 through August 1938, Federal Building at Franklin and Fannin from August 1938 through May 1969, Intercontinental Airport from June 1969 to the present .

College Station (CLL)

Records from 1893 through July 1951 are based on observations taken at the Texas Agriculture Experiment COOP Station main farm located 6 miles southwest of College Station. Records from August 1951 through the present are based on observations taken at Easterwood field. Normal temperatures are calculated from 1981 to 2000 period.

