



NWS Houston, Texas October 2021 Regional Climate Summary

Produced by Jimmy Fowler

...Rollercoaster of Temperatures due to Cold Frontal Passage, but Overall Unseasonably Warm...

In general, the month of October was three to four degrees above normal and around one to three inches below normal. There were some strong cold fronts to push through the area the brought temporary cool down, but they did not last long enough to outweigh the exceptionally warm days. Some coastal downpours brought above average precipitation to Galveston Island and the near coastal areas.

The Winter Outlook from the CPC has been issued and a warmer and drier than normal winter is favored for SE Texas.

Table of Contents

Page Number	Page Title
1	Cover
2	Table of Contents
3	By the Numbers
4	Precipitation Summary
5	Precipitation Graph
6	Precipitation Imagery
7	Temperature Summary
8	Temperature Charts
9 – 10	Daily Record Reports
11	Drought Monitor
12	Next Month Outlook
13	Winter Outlook
14	ENSO Review
15	Climate Primary Site History



By the Numbers: October 2021



Location (records started)	Average Temp	Ranking	Total Rainfall	Ranking
City of Houston, TX (1888)	74.8°F	12 th Warmest	3.64"	56 th Wettest
Houston Hobby, TX (1930)	77.0°F	2 nd Warmest	2.75"	40 th Driest
City of Galveston, TX (1871)	78.6°F	2 nd Warmest	6.77"	29 th Wettest
City of College Station, TX (1882)	74.5°F	8 th Warmest	4.22"	41 st Wettest
Conroe, TX (1997)	71.0°F	4 th Warmest	5.23"	10 th Wettest
Huntsville, TX (1997)	74.6°F	2 nd Warmest	4.13"	10 th Wettest
Sugar Land, TX (2000)	76.0°F	2 nd Warmest	3.15"	11 th Wettest
Palacios, TX (1943)	75.2°F	6 th Warmest	5.26"	32 nd Wettest
Clover Field (Pearland), TX (1997)	75.1°F	3 rd Warmest	2.09"	7 th Driest
David Wayne Hooks (Tomball), TX (1998)	73.8°F	3 rd Warmest	4.45"	11 th Wettest
Angleton, TX (1998)	74.8°F	3 rd Warmest	5.99"	9 th Wettest
League City, TX (1990)	74.5°F	3 rd Warmest	4.15"	15 th Wettest



Precipitation

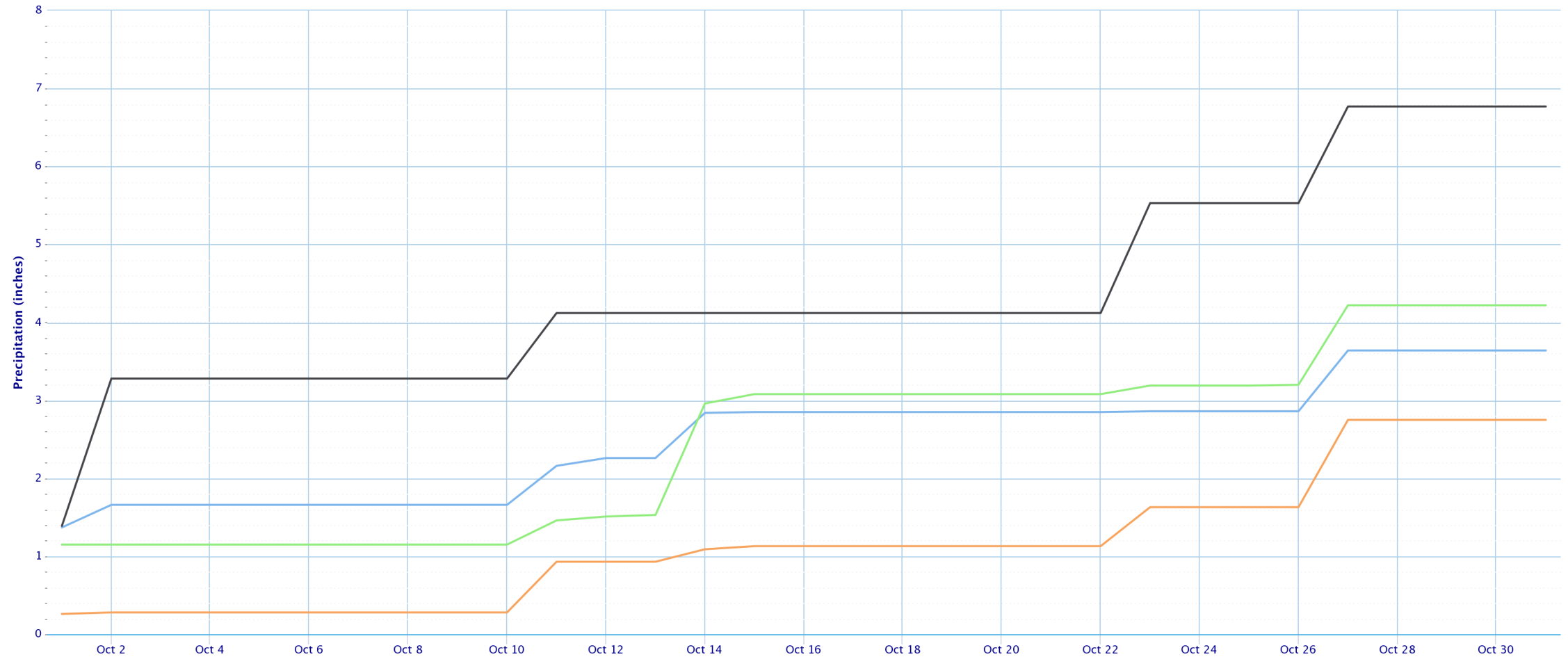
Location	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	6.77	+1.62	6	1.89	2 nd
Houston Hobby (HOU)	2.75	-3.03	6	1.12	27 th
City of Houston (IAH)	3.64	-1.82	6	1.37	1 st
College Station (CLL)	4.22	-0.71	6	1.43	14 th



Precipitation Accumulation Graph

Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



City of Houston

City of Galveston

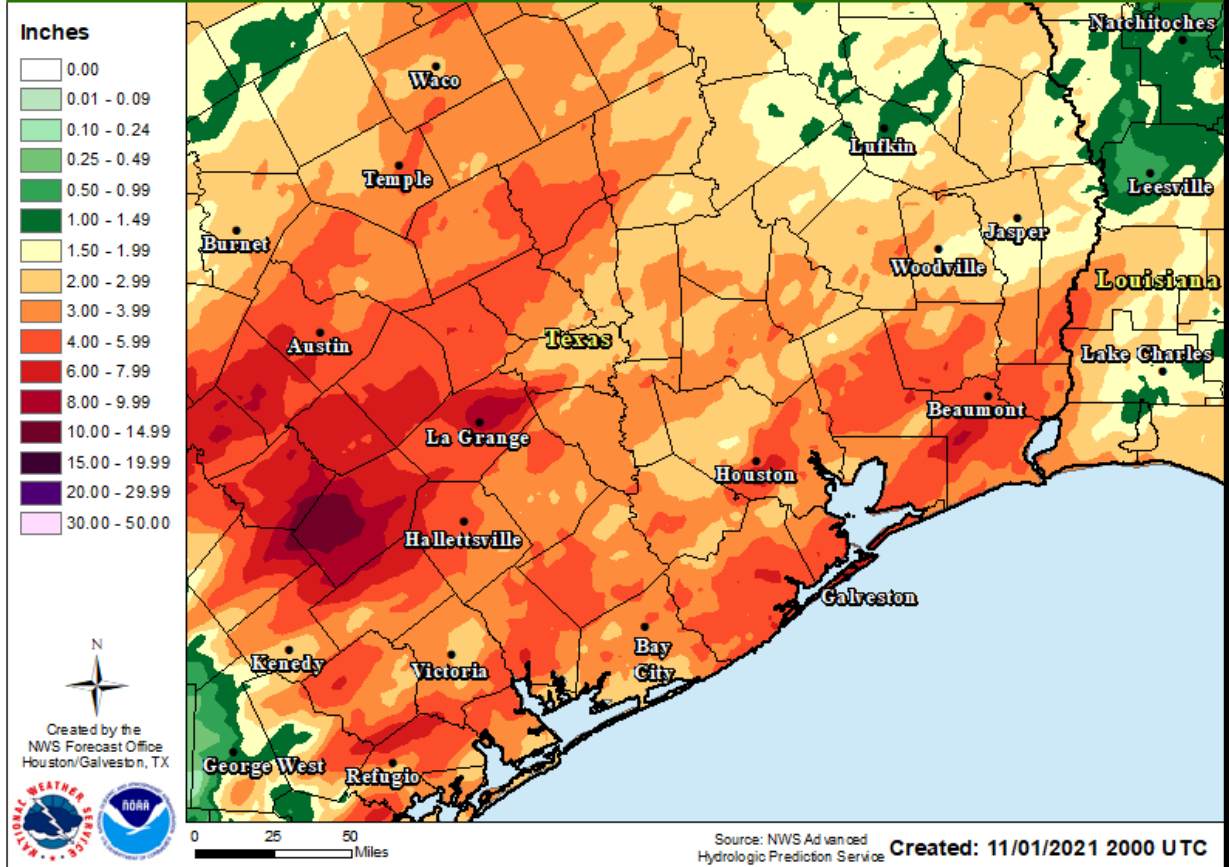
City of College Station

Houston-Hobby

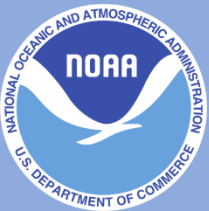
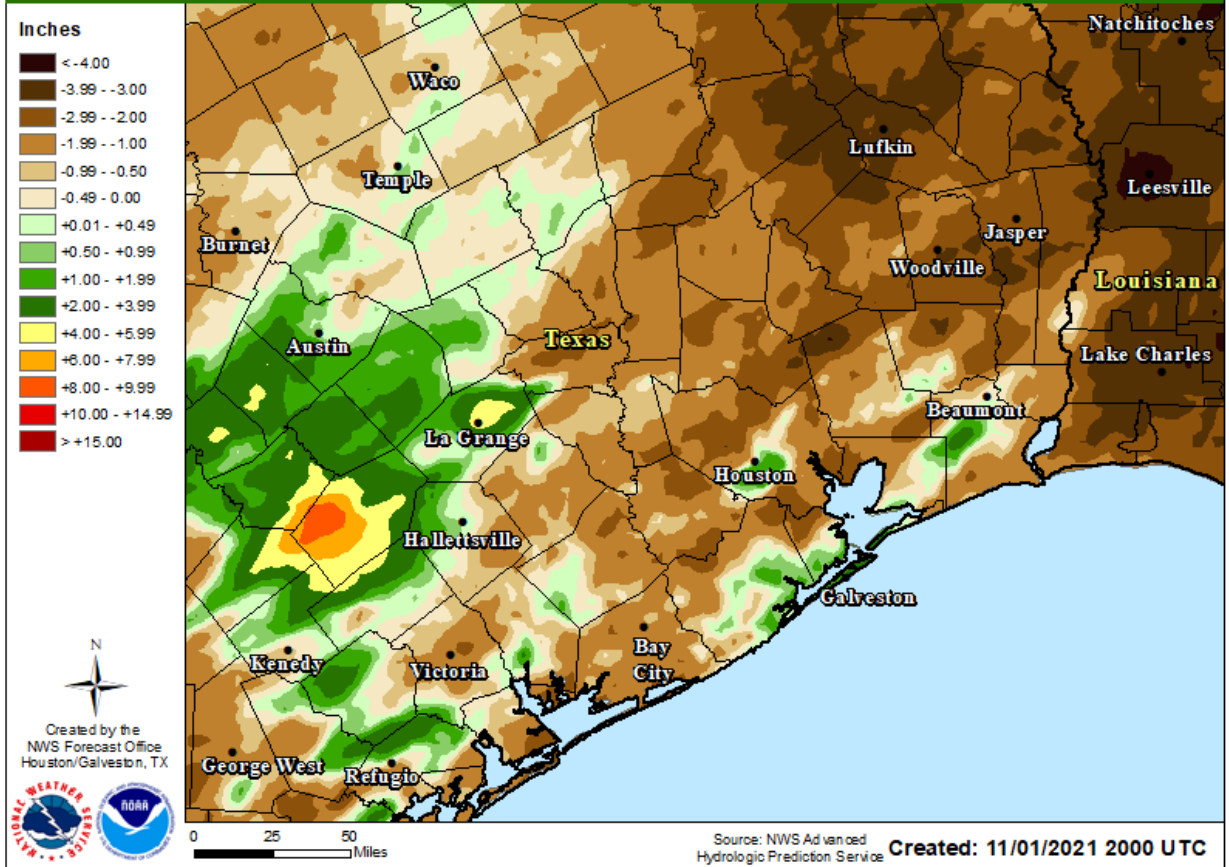


Precipitation Maps

Total Monthly Precipitation - October 2021



Total Monthly Precipitation Departure From Normal - October 2021

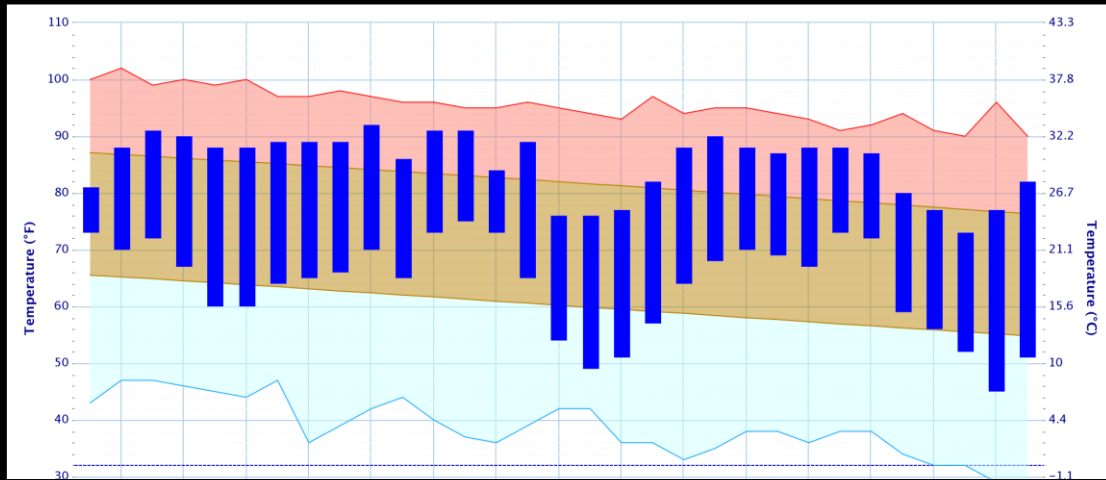


Temperature

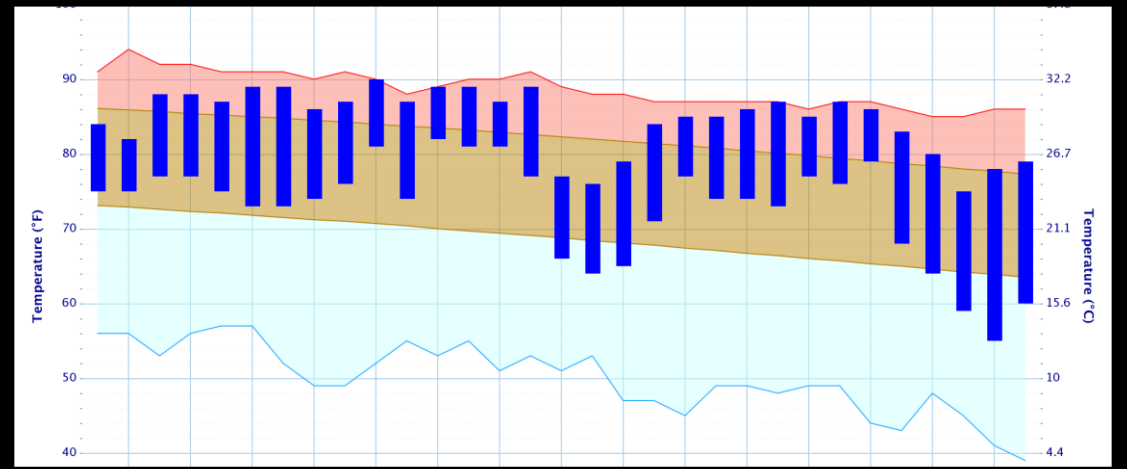
Location	Average High Temp (F)	Average Low Temp (F)	Average Temp (F)	Normal Average Temp (F)	Departure From Normal Average (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	84.6	72.7	78.6	75.3	+3.3	90 on the 10 th	55 on the 30 th
Houston Hobby (HOU)	86.0	68.1	77.0	73.0	+4.0	93 on the 15 th	50 on the 30 th
City of Houston (IAH)	85.0	64.6	74.8	71.8	+3.0	92 on the 13 th	47 on the 30 th
College Station (CLL)	85.2	63.7	74.5	71.1	+3.4	92 on the 10 th	45 on the 30 th

Temperature Charts

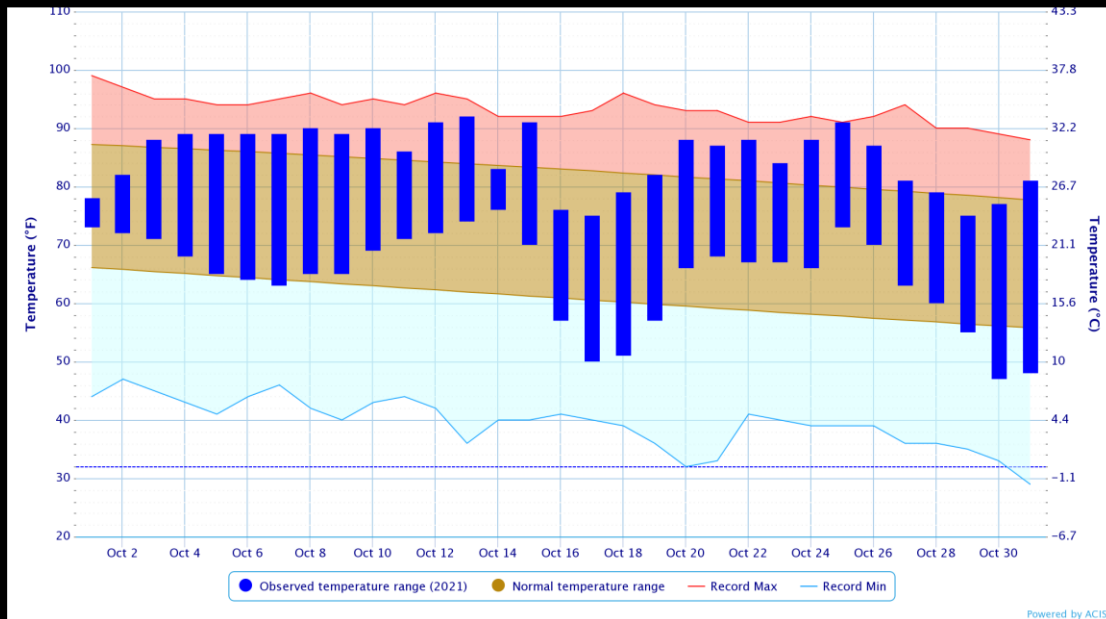
City of College Station



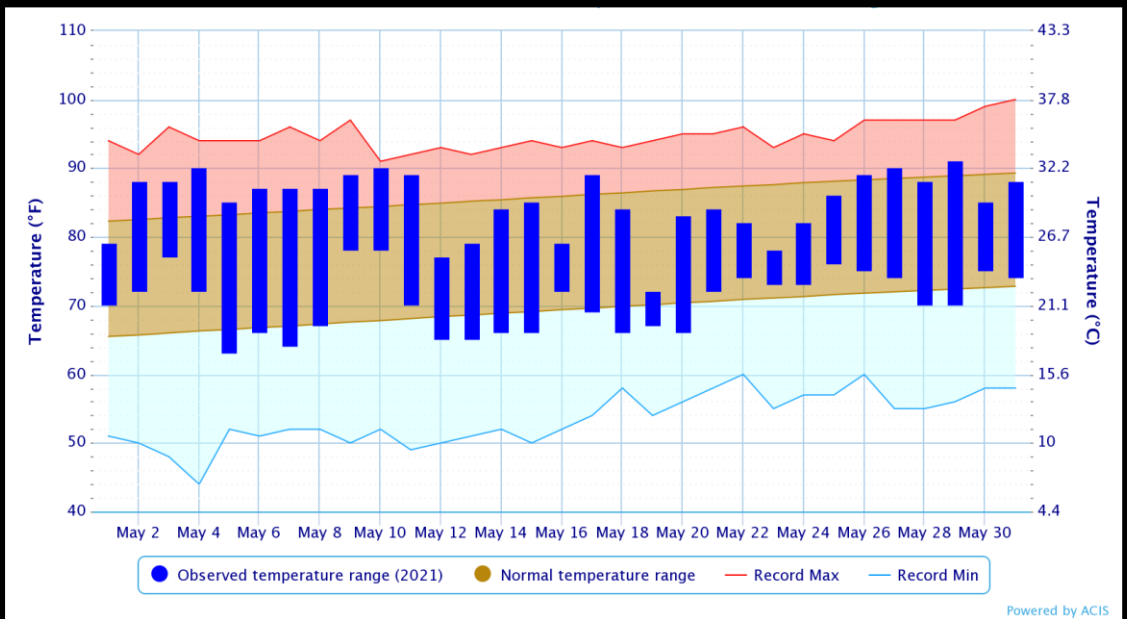
City of Galveston



City of Houston



Houston-Hobby



Daily Record Reports

Site	Date	Record Type	New Record	Previous Record
City of College Station	October 25 th	High Minimum Temp	73° - T	73° in 1991
City of Houston	October 25 th	High Maximum Temp	91° - T	91° in 1950
Houston-Hobby	October 12 th	High Minimum Temp	78°	76° in 1997
Houston-Hobby	October 13 th	High Minimum Temp	77°	76° in 1981
Houston-Hobby	October 14 th	High Minimum Temp	78°	76° in 2018
Houston-Hobby	October 15 th	High Maximum Temp	93° - T	93° in 2020
Houston-Hobby	October 25 th	High Minimum Temp	74° - T	72° in 2004
Houston-Hobby	October 25 th	High Maximum Temp	92° - T	92° in 1942
City of Galveston	October 10 th	High Maximum Temp	90° - T	90° in 2019
City of Galveston	October 12 th	High Maximum Temp	89° - T	89° in 2020

There were 8 daily records set during the month of October.



Key

High Max

Low Max

Precip

Snow

High Min

Low Min

Daily Record Reports

Site	Date	Record Type	New Record	Previous Record
City of Galveston	October 12 th	High Minimum Temp	82°	80° in 1981
City of Galveston	October 13 th	High Minimum Temp	81°	79° in 2018
City of Galveston	October 14 th	High Minimum Temp	81° - T	81° in 2018
City of Galveston	October 23 rd	High Maximum Temp	87°	86° in 2020
City of Galveston	October 25 th	High Maximum Temp	87°	86° in 2004
City of Galveston	October 26 th	High Minimum Temp	79° - T	79° in 2019

There were 8 daily records set during the month of October.



Key

High Max

Low Max

Precip

Snow

High Min

Low Min

Drought Monitor

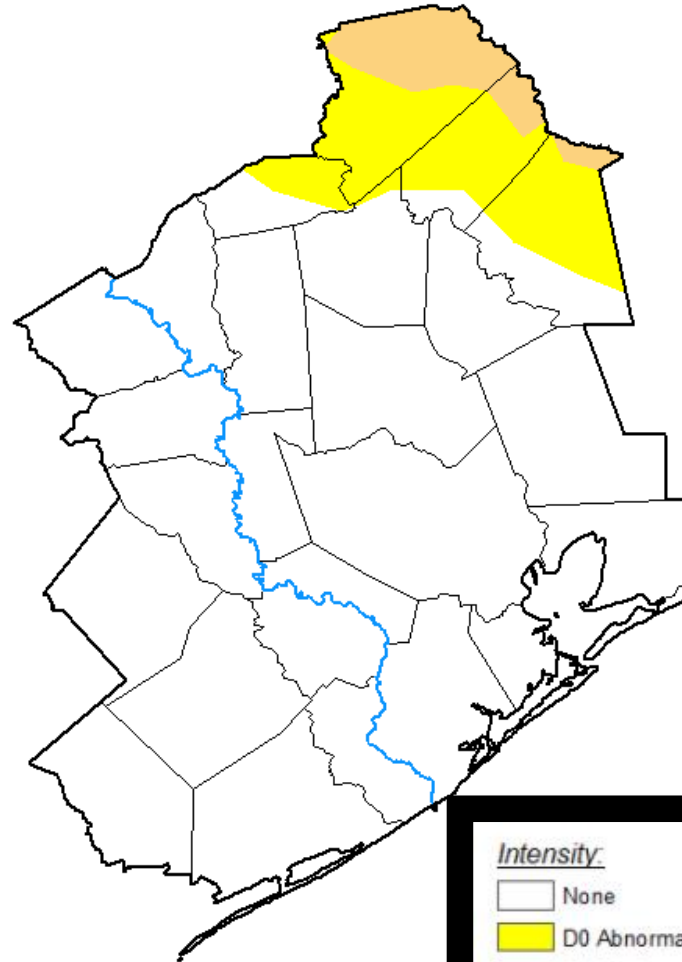
As of October 26th

A lack of rainfall brought the addition of D1-Moderate Drought to the northern portions of Houston, Trinity, and Polk counties.

U.S. Drought Monitor

Houston/Galveston, TX WFO

via <https://droughtmonitor.unl.edu/>



Intensity:

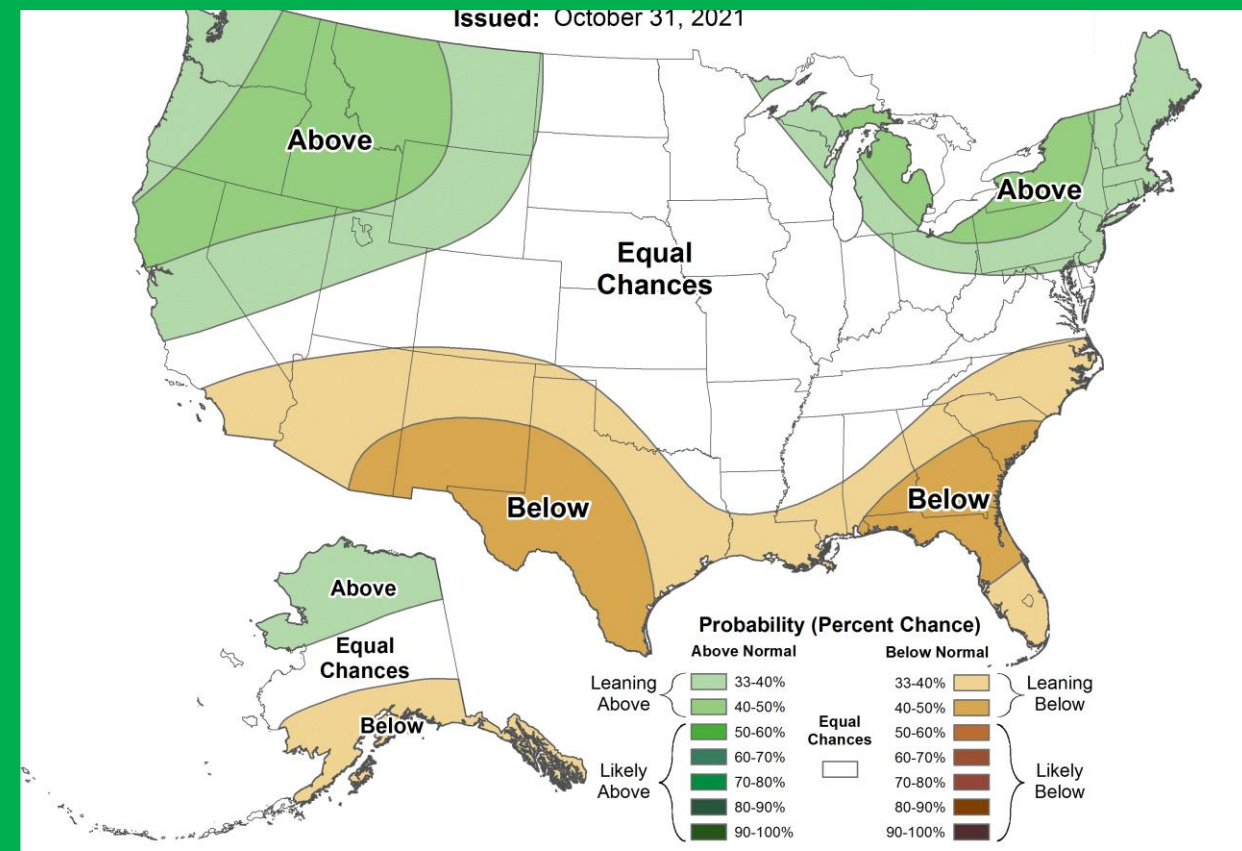
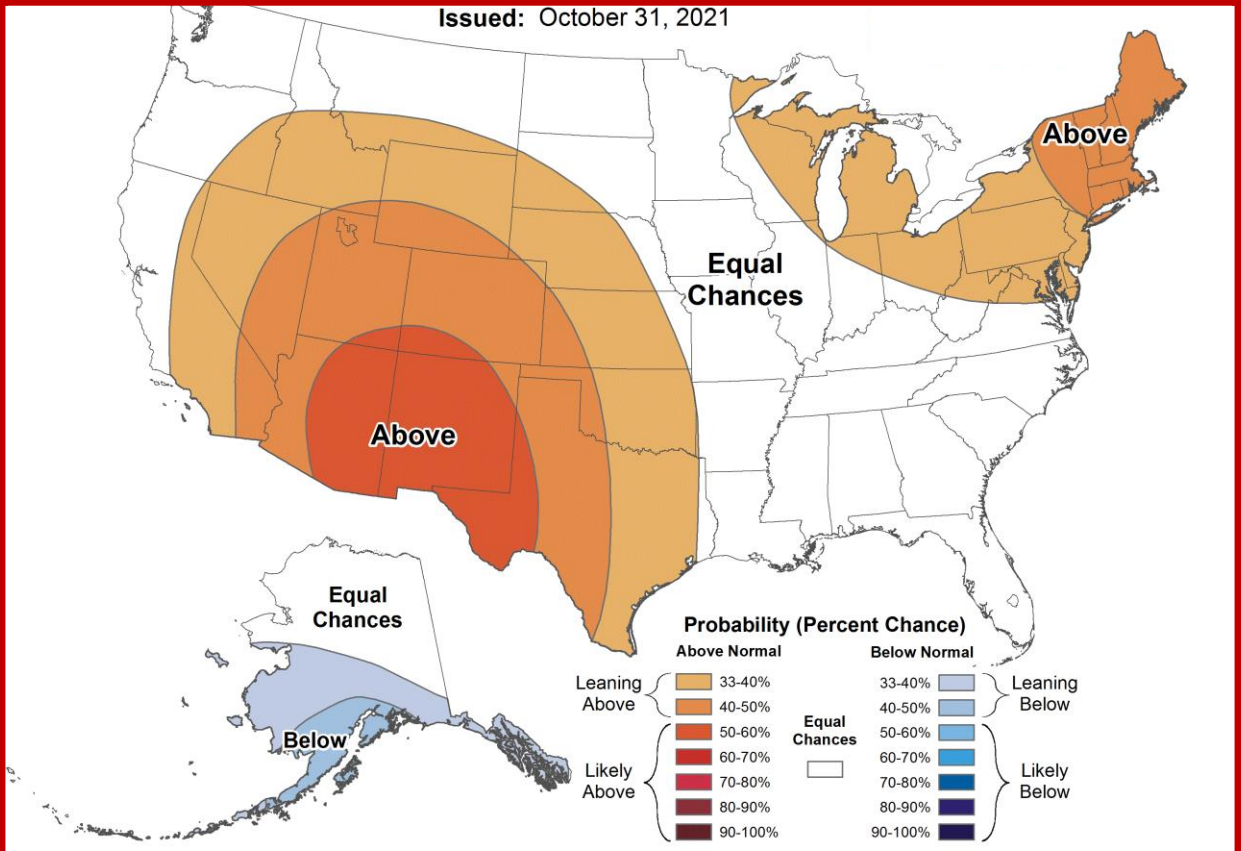
None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

November Outlook

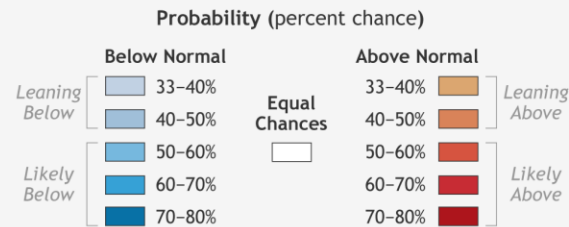
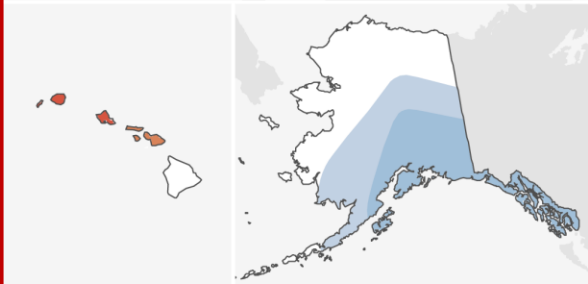
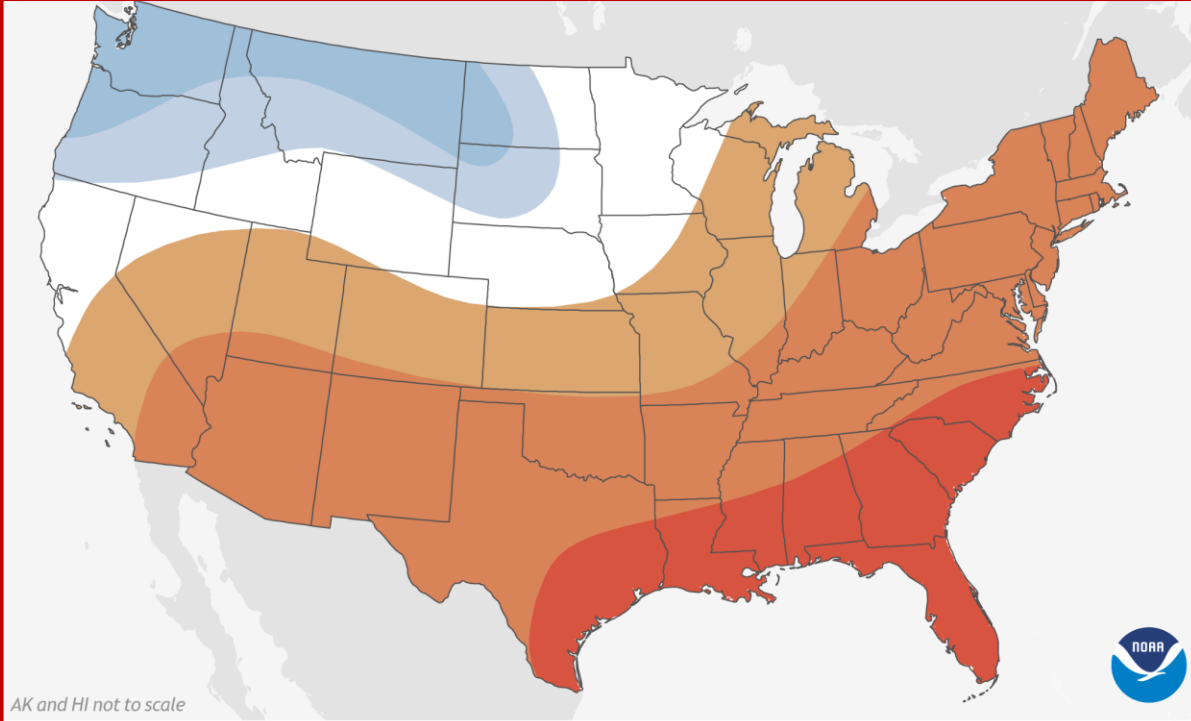
Location	Average Temp(°F)	Normal High (°F)	Normal Low (°F)
Galveston	65.5	72.4	58.7
Houston Hobby	63.3	72.6	54.0
City of Houston	62.0	72.6	51.5
College Station	60.4	71.1	49.8

Location	Normal Monthly Precipitation (in.)
Galveston	4.28
Houston Hobby	3.90
City of Houston	3.87
College Station	3.31



Winter Outlook (December – February)

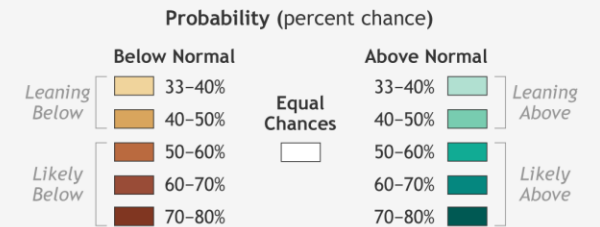
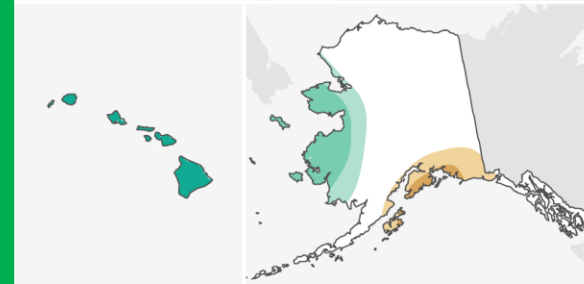
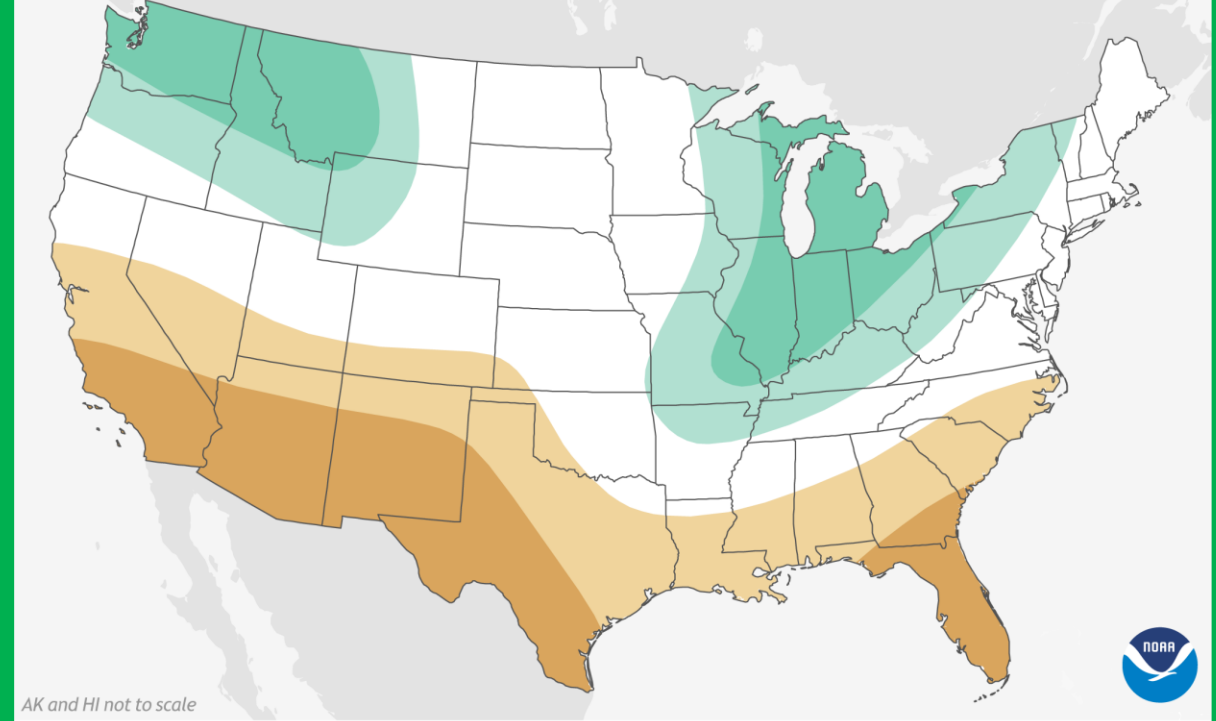
Temperature Outlook



Temperature Outlook
for December 2021 – February 2022
Issued 21 October 2021

NWS Climate Prediction Center
Map by NOAA Climate.gov

Precipitation Outlook



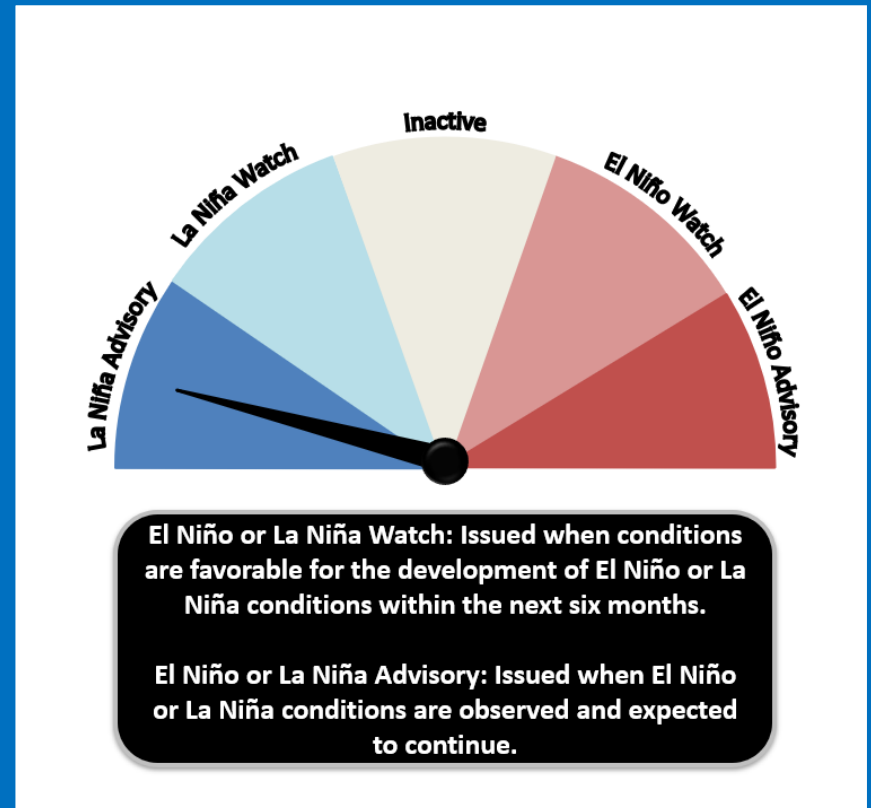
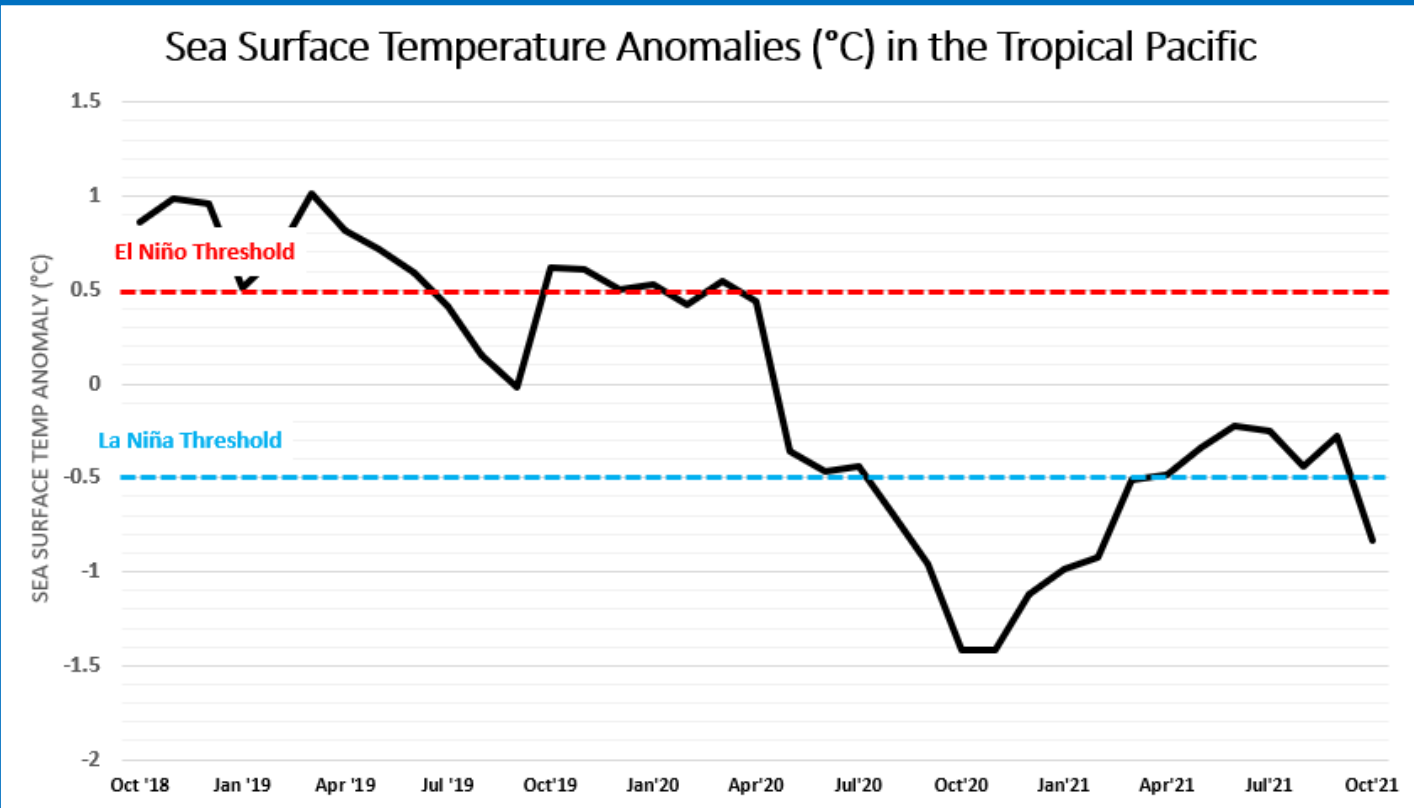
Precipitation Outlook
for December 2021 – February 2022
Issued 21 October 2021

NWS Climate Prediction Center
Map by NOAA Climate.gov

Current ENSO Phase: **La Niña**

The Climate Prediction Center's ENSO Forecast: **La Niña Advisory**

- La Niña conditions have developed and are expected to continue with an **87% chance of La Niña in December 2021- February 2022.**



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 Santa 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).

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.

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 .

Houston Hobby (HOU)

Records are based upon observations beginning in August 1931.

