

NWS Houston, Texas March 2023 Regional Climate Summary

Produced by Jimmy Fowler

...Warm and Dry, Again...

March continued the weather trends of February with continued above normal temperatures and below normal precipitation. Average temperatures across the month were generally around three to five degrees above normal, and there were a total of 37 daily temperature records (all either record high maximum or high minimum temperatures). Precipitation was lacking across the region with averages around one to three inches below normal. Because of these warmer and drier conditions drought conditions expanded across the region with Moderate (D1) to Severe Drought (D2) conditions being reported in parts of the area.

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By the Numbers: March 2023

Location (records started)	Average Temp	Ranking	Total Rainfall	Ranking
City of Houston, TX (1888)	76.8°F	16 th Warmest	1.15"	25 th Driest
Houston Hobby, TX (1930)	77.6°F	4 th Warmest	1.78"	31 st Driest
City of Galveston, TX (1871)	74.8°F	5 th Warmest	2.04"	71 st Wettest
City of College Station, TX (1882)	75.8°F	22 nd Warmest	1.37"	30 th Driest
Palacios, TX (1943)	76.2°	9 th Warmest	0.77"	18 th Driest
Huntsville, TX (1997)	75.8°F	7 th Warmest	2.36"	10 th Driest
Sugar Land, TX (2000)	78.0°F	3 rd Warmest	1.61"	7 th Driest
Conroe, TX (1997)	75.2°F	11 th Warmest	2.46"	12 th Driest
Clover Field (Pearland), TX (1997)	76.4°F	6 th Warmest	1.59"	10 th Driest
David Wayne Hooks (Tomball), TX (1998)	77.4°F	5 th Warmest	1.29"	6 th Driest
Angleton, TX (1998)	76.5°F	5 th Warmest	1.63"	8 th Driest
League City, TX (1990)	75.1°F	7 th Warmest	2.07"	12 th Driest



Precipitation

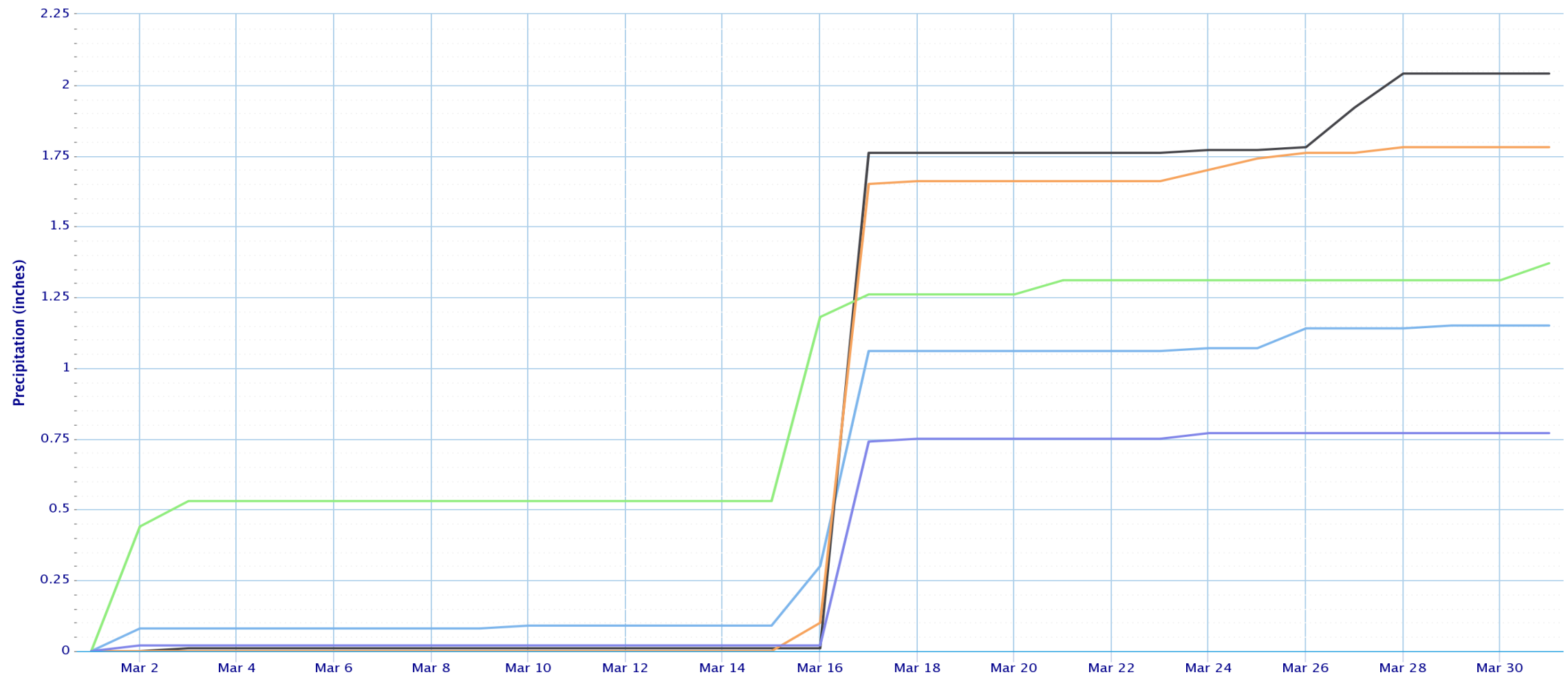
Location	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	2.04	-0.98	3	1.75	17 th
Houston Hobby (HOU)	1.78	-1.50	3	1.55	17 th
City of Houston (IAH)	1.15	-3.32	1	0.76	17 th
College Station (CLL)	1.37	-2.04	5	0.65	17 th
Palacios (PSX)	0.77	-1.94	1	0.72	17 th



Precipitation Accumulation Graph

Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



City of Houston

City of Galveston

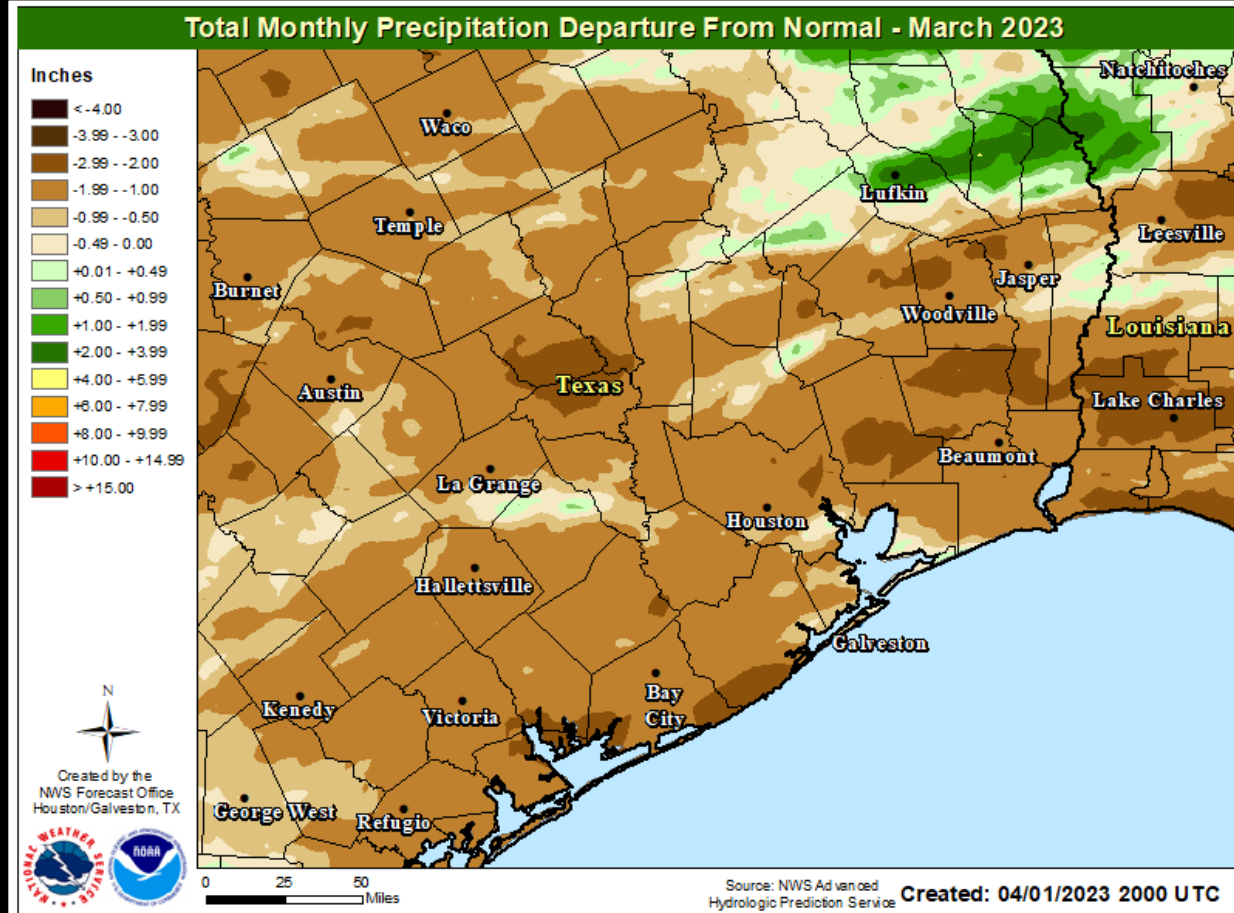
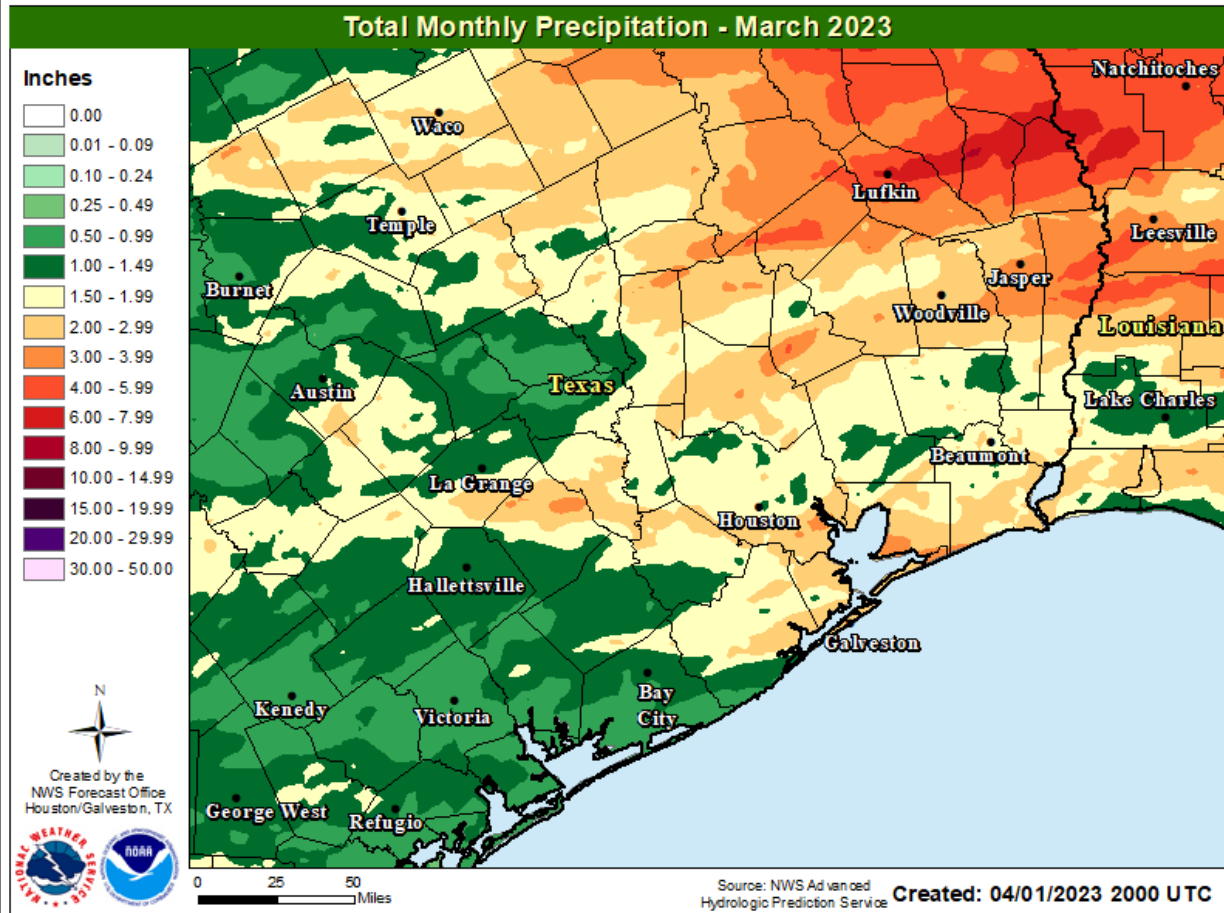
City of College Station

Houston-Hobby

Palacios



Precipitation Maps

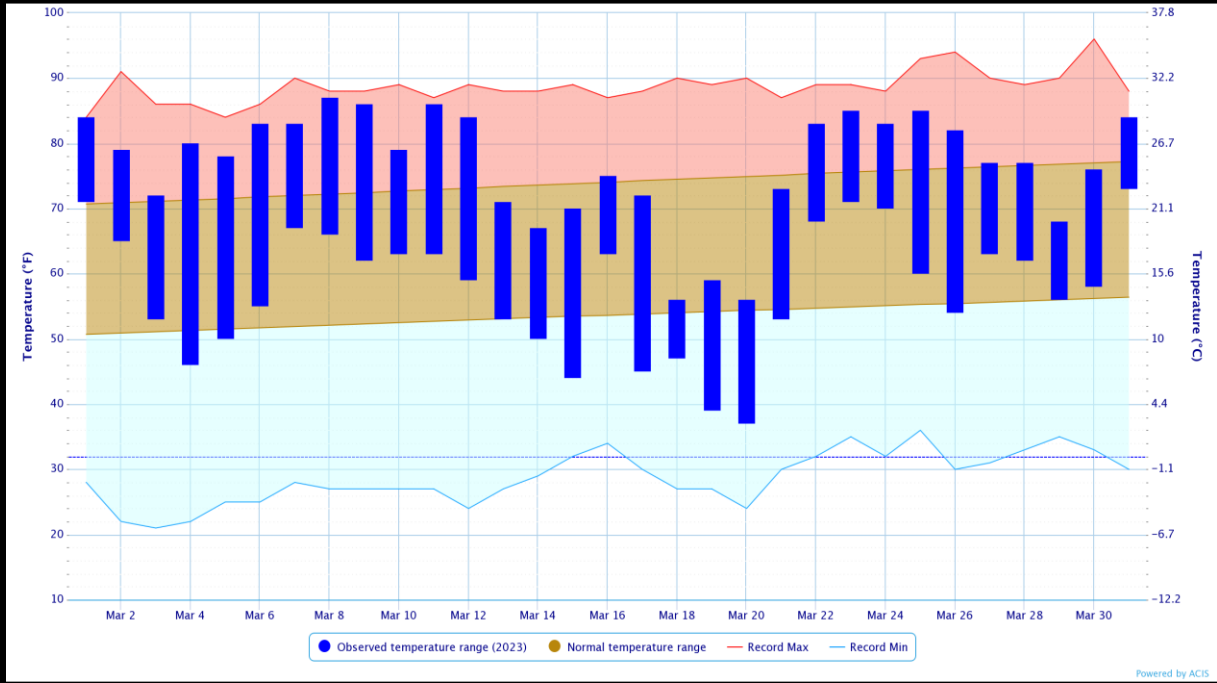


Temperature

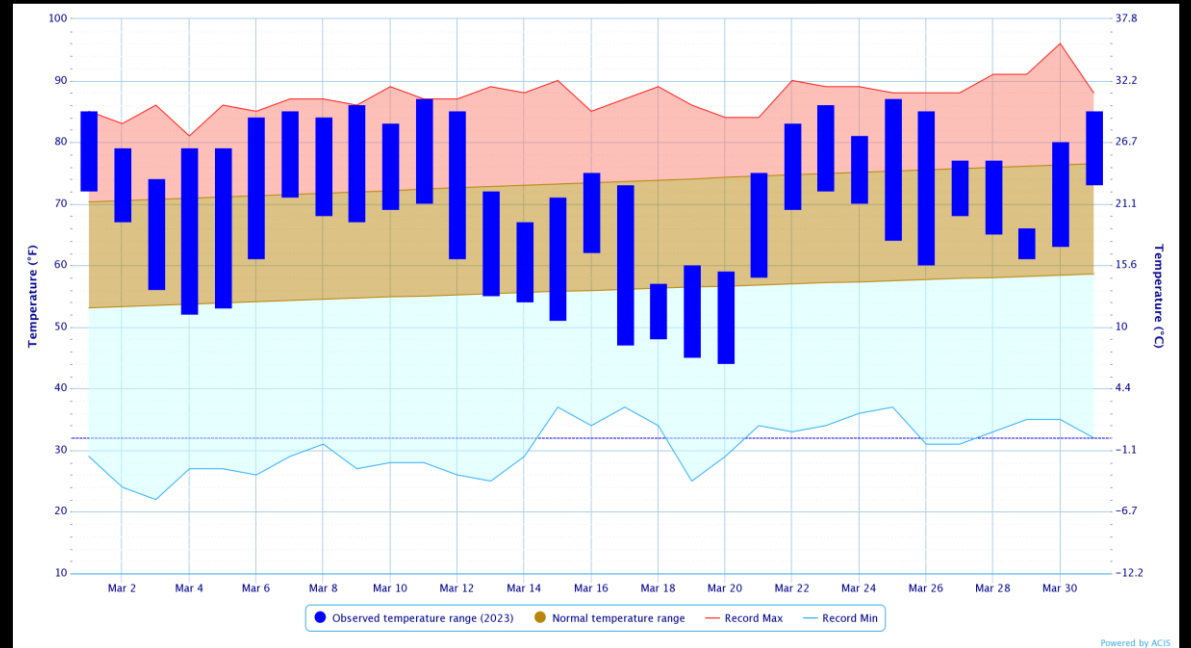
Location	Average High Temp (F)	Average Low Temp (F)	Average Temp (F)	Departure From Normal Average (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	74.8	63.5	69.1	+3.9	88 on the 12 th	46 on the 19 th
Houston Hobby (HOU)	77.6	61.2	69.4	+4.7	87 on the 11 th & 25 th	44 on the 20 th
City of Houston (IAH)	76.8	57.6	67.2	+3.4	87 on the 8 th	37 on the 20 th
College Station (CLL)	75.8	55.5	65.7	+3.6	88 on the 31 st	36 on the 20 th
Palacios (PSX)	76.2	61.0	68.6	+3.6	87 on the 12 th	44 on the 19 th

Temperature Charts

City of Houston

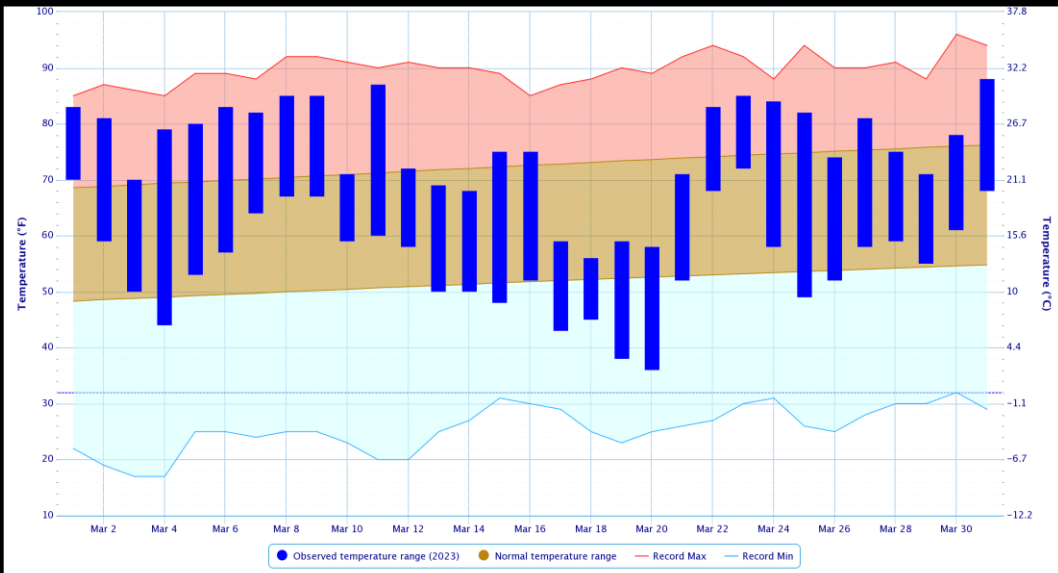


Houston-Hobby

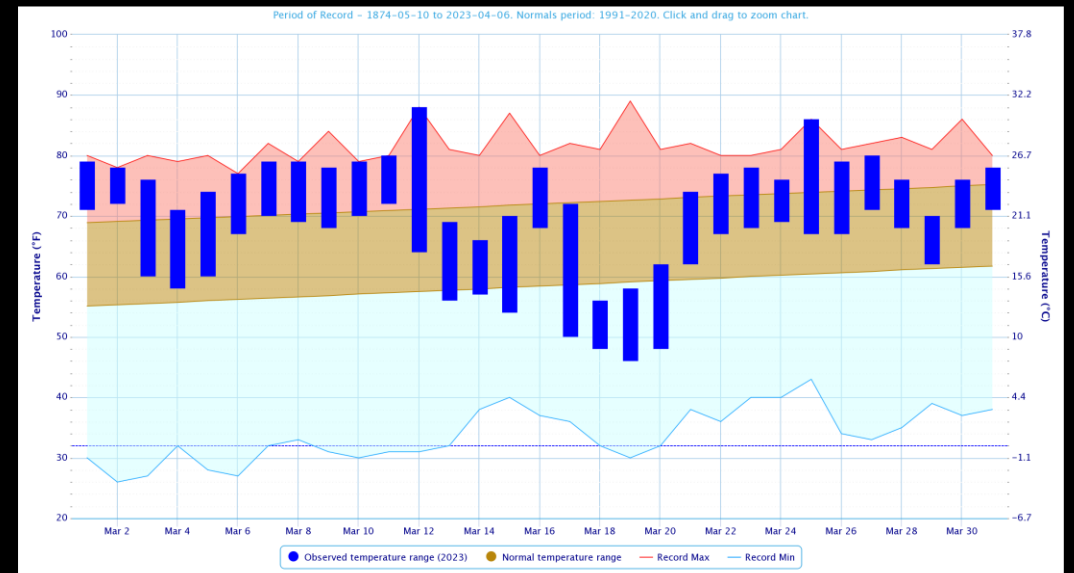


Temperature Charts

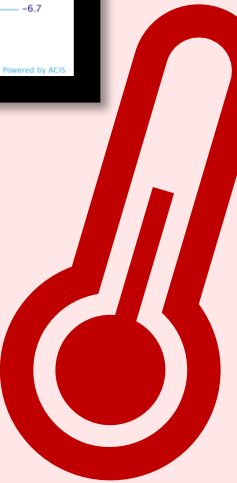
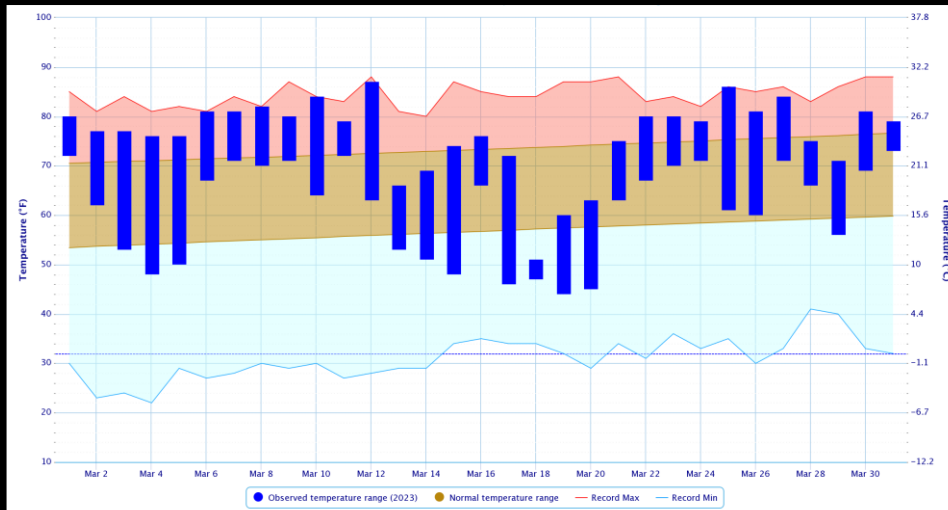
City of College Station



City of Galveston



Palacios



Daily Record Reports – City of College Station

Date	Record Type	New Record	Previous Record
1 st	High Minimum	70°F	67°F in 1997
23 rd	High Minimum	72°F – T	72°F in 1933

There were 2 daily records set at College Station this month.



Key

High Max

Low Max

Precip

Snow

High Min

Low Min

Daily Record Reports – City of Houston

Date	Record Type	New Record	Previous Record
1 st	High Minimum	71°F	70°F in 2012
1 st	High Maximum	84°F – T	84°F in 2017
23 rd	High Minimum	71°F	70°F in 1995
31 st	High Minimum	73°F	71°F in 2006

There were 4 daily records set at Houston this month.



High Max

Low Max

Precip

Key

Snow

High Min

Low Min



Daily Record Reports – Houston-Hobby

Date	Record Type	New Record	Previous Record
1 st	High Maximum	85°F – T	85°F in 2017
1 st	High Minimum	72°F	70°F in 2012
7 th	High Minimum	71°F	69°F in 1990
9 th	High Maximum	86°F – T	86°F in 2000
11 th	High Maximum	87°F – T	87°F in 1974
22 nd	High Minimum	69°F – T	69°F in 1975
23 rd	High Minimum	72°F	70°F in 2020
31 st	High Minimum	73°F – T	73°F in 1938

There were 8 daily records set at Houston-Hobby this month.



High Max

Low Max

Precip

Snow

High Min

Low Min



Key

Daily Record Reports – City of Galveston

Date	Record Type	New Record	Previous Record
1 st	High Minimum	71°F	68°F in 2018
2 nd	High Minimum	72°F	68°F in 2012
2 nd	High Maximum	78°F	77°F in 1940
6 th	High Maximum	77°F – T	77°F in 2022
7 th	High Minimum	70°F – T	70°F in 1880
8 th	High Minimum	69°F – T	69°F in 2012
8 th	High Maximum	79°F	78°F in 2000
10 th	High Maximum	79°F	78°F in 2000
10 th	High Minimum	70°F – T	70°F in 1907
11 th	High Minimum	72°F	70°F in 1907

Date	Record Type	New Record	Previous Record
11 th	High Maximum	80°F	78°F in 2019
12 th	High Maximum	88°F	79°F in 1923
25 th	High Maximum	86°F	81°F in 2017

There were 13 daily records set at Galveston this month.



Key

High Max

Low Max

Precip

Snow

High Min

Low Min

Daily Record Reports – Palacios

Date	Record Type	New Record	Previous Record
1 st	High Minimum	72°F	68°F in 2012
6 th	High Maximum	81°F – T	81°F in 1999
7 th	High Minimum	71°F	69°F in 2006
8 th	High Maximum	81°F	80°F in 1951
8 th	High Minimum	70°F – T	70°F in 2016
9 th	High Minimum	71°F – T	71°F in 2009
10 th	High Maximum	84°F	81°F in 2000
11 th	High Minimum	72°F	71°F in 2006
25 th	High Maximum	86°F	84°F in 1992
31 st	High Minimum	73°F – T	73°F in 2012

There were 10 daily records set at Palacios this month.



Key

High Max

Low Max

Precip

Snow

High Min

Low Min

Drought Monitor

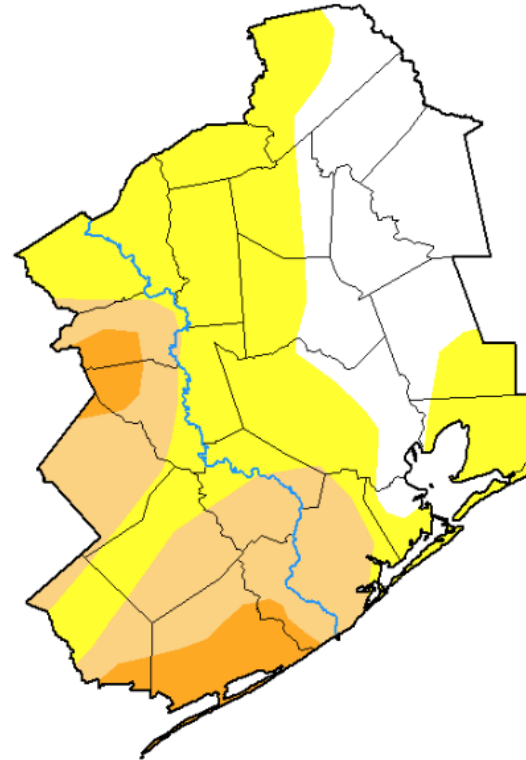
As of April 4th

Continued dryness led to the expansion of drought conditions across the region. Severe Drought (D2) has been introduced in parts of Washington, Austin, Colorado, Jackson, Matagorda, and Brazoria counties. Moderate Drought (D1) is also found in those counties, but also in Burleson, Wharton, and Fort Bend 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 |

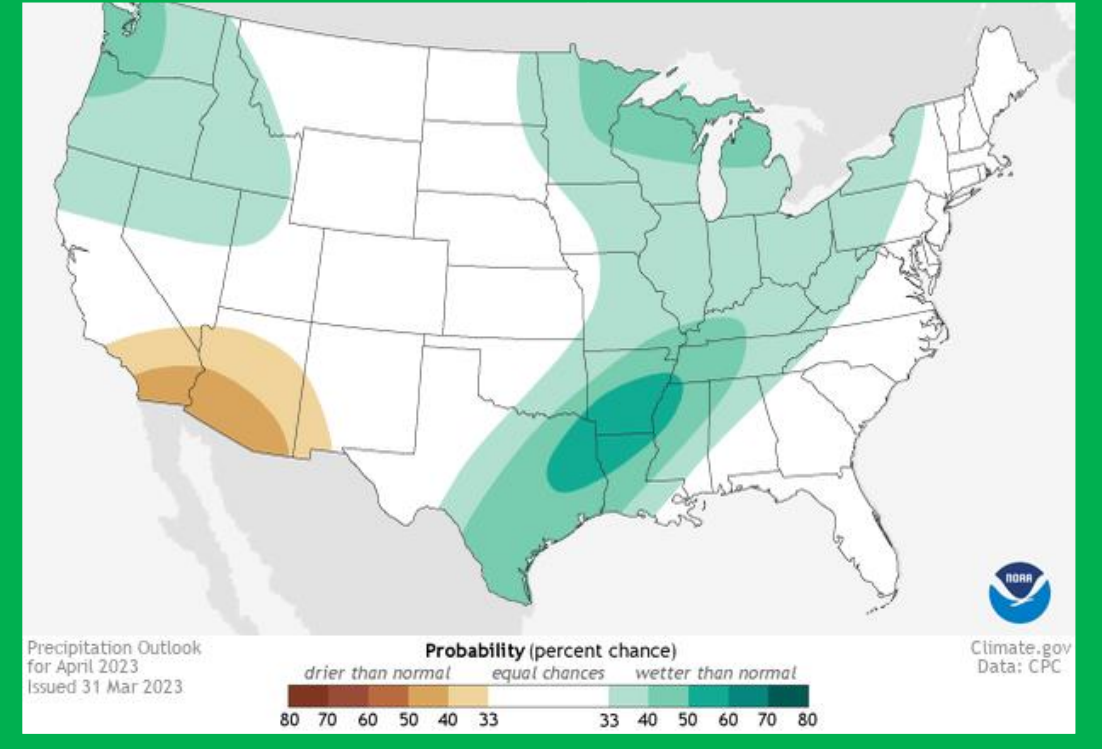
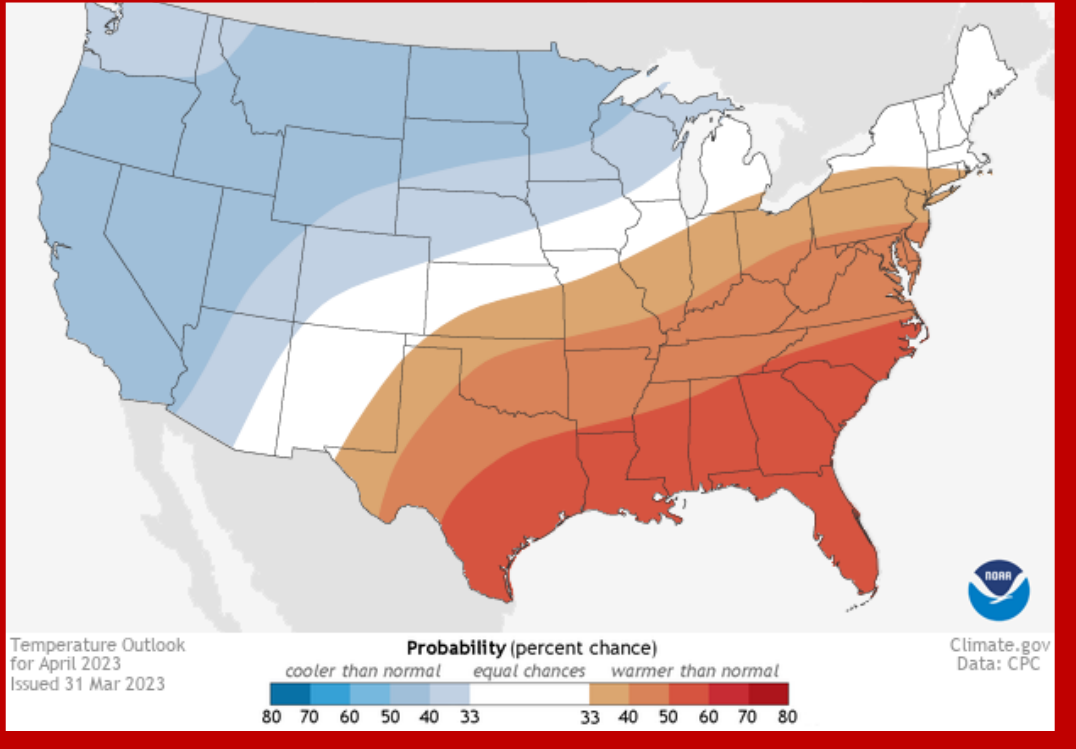
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>



April Outlook

Location	Average Temp(°F)	Normal High (°F)	Normal Low (°F)
Galveston	71.5	78.0	65.0
Houston Hobby	70.5	79.3	61.8
City of Houston	70.0	80.1	53.6
College Station	68.7	79.2	58.1
Palacios	74.1	79.5	63.3

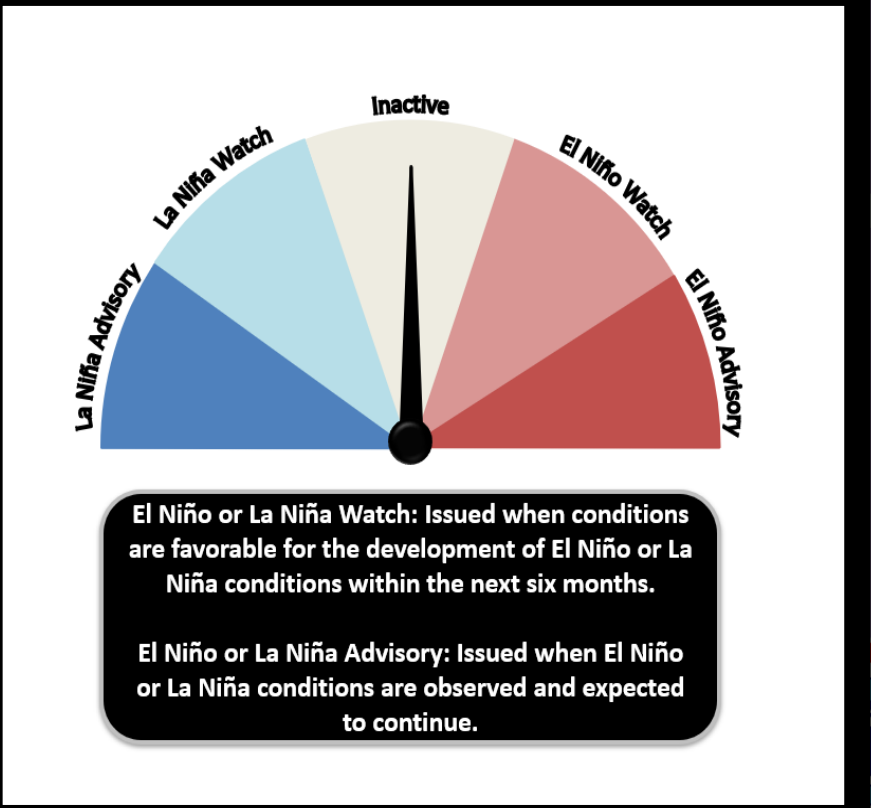
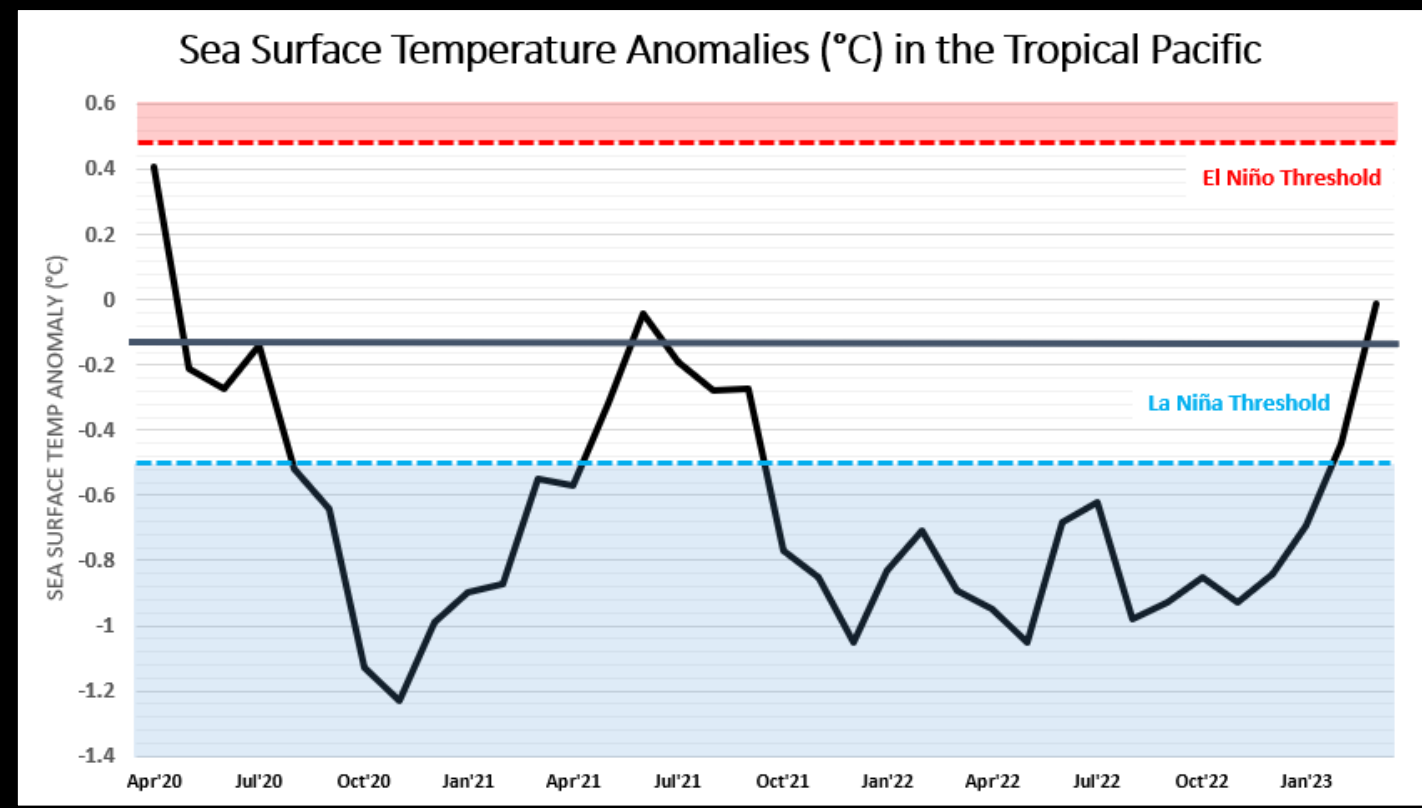
Location	Normal Monthly Precipitation (in.)
Galveston	2.06
Houston Hobby	4.08
City of Houston	3.95
College Station	2.87
Palacios	2.67



Current ENSO Phase: Neutral

The Climate Prediction Center's ENSO Forecast: Inactive

- ENSO-neutral is anticipated through the Spring with El Niño conditions developing in the summer.



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).

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.

Houston Hobby (HOU)

Records are based upon observations beginning in August 1931.

Palacios (PSX)

Records are based upon observations beginning in February 1943.

