

# NWS Houston, Texas August 2022 Regional Climate Summary

**Produced by Jimmy Fowler**

## ***...Widespread Above Normal Precipitation leads to Rapid Drought Improvement...***

*August 2022 was the opposite of July 2022 when it came to precipitation. While July was one of the driest Julys on record, this August was on the wetter side of the record books with most of the region receiving two to eight plus inches of above normal rainfall. The mostly cloudy skies and continued rainfall led to near normal temperatures. This combination of near normal temperatures and above normal rainfall allowed for the drought conditions to rapidly improve across the region. Exceptional Drought (D4) conditions are no longer being seen in SE Texas with some Extreme Drought (D3) persisting across the western portion of the area. Drought conditions are expected to continue to improve during September as the region remains under a wetter and cooler pattern.*

# 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 – 9	Temperature Charts
10 – 14	Daily Record Reports
15	Drought Monitor
16	Next Month Outlook
17	ENSO Review
18	Climate Primary Site History



# By the Numbers: August 2022



Location (records started)	Average Temp	Ranking	Total Rainfall	Ranking
City of Houston, TX (1888)	85.1°F	29 <sup>th</sup> Warmest	8.58"	10 <sup>th</sup> Wettest
Houston Hobby, TX (1930)	85.6°F	14 <sup>th</sup> Warmest	4.52"	31 <sup>st</sup> Wettest
City of Galveston, TX (1871)	86.8°F	5 <sup>th</sup> Warmest	7.40"	22 <sup>nd</sup> Wettest
City of College Station, TX (1882)	87.6°F	6 <sup>th</sup> Warmest	4.54"	22 <sup>nd</sup> Wettest
Palacios, TX (1943)	85.9°F	8 <sup>th</sup> Warmest	5.10"	22 <sup>nd</sup> Wettest
Huntsville, TX (1997)	86.5°F	5 <sup>th</sup> Warmest	3.47"	8 <sup>th</sup> Wettest
Sugar Land, TX (2000)	85.2°F	8 <sup>th</sup> Warmest	5.41"	9 <sup>th</sup> Wettest
Conroe, TX (1997)	83.8°F	10 <sup>th</sup> Warmest	5.66"	5 <sup>th</sup> Wettest
Clover Field (Pearland), TX (1997)	84.6°F	9 <sup>th</sup> Coolest	4.91"	10 <sup>th</sup> Wettest
David Wayne Hooks (Tomball), TX (1998)	85.9°F	3 <sup>rd</sup> Warmest	7.72"	3 <sup>rd</sup> Wettest
Angleton, TX (1998)	84.2°F	8 <sup>th</sup> Warmest	7.23"	4 <sup>th</sup> Wettest
League City, TX (1990)	83.4°F	15 <sup>th</sup> Warmest	11.67"	5 <sup>th</sup> Wettest



# Precipitation

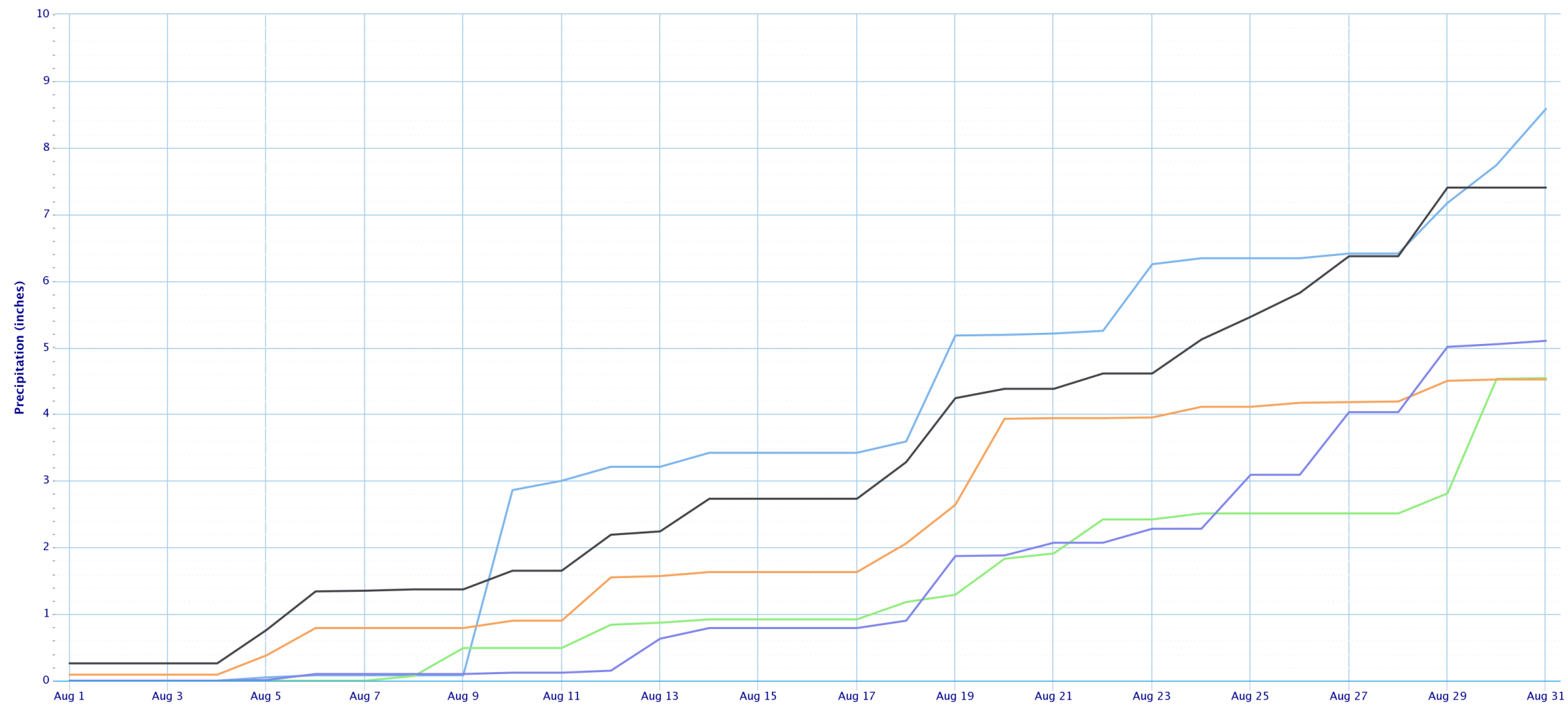
Location	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	7.40	+2.69	10	1.03	29 <sup>th</sup>
Houston Hobby (HOU)	4.52	-0.92	15	1.29	20 <sup>th</sup>
City of Houston (IAH)	8.58	+3.74	15	2.78	10 <sup>th</sup>
College Station (CLL)	4.54	+1.44	13	1.72	30 <sup>th</sup>
Palacios (PSX)	5.10	+1.19	12	0.98	29 <sup>th</sup>



# Precipitation Accumulation Graph

Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



City of Houston

City of Galveston

City of College Station

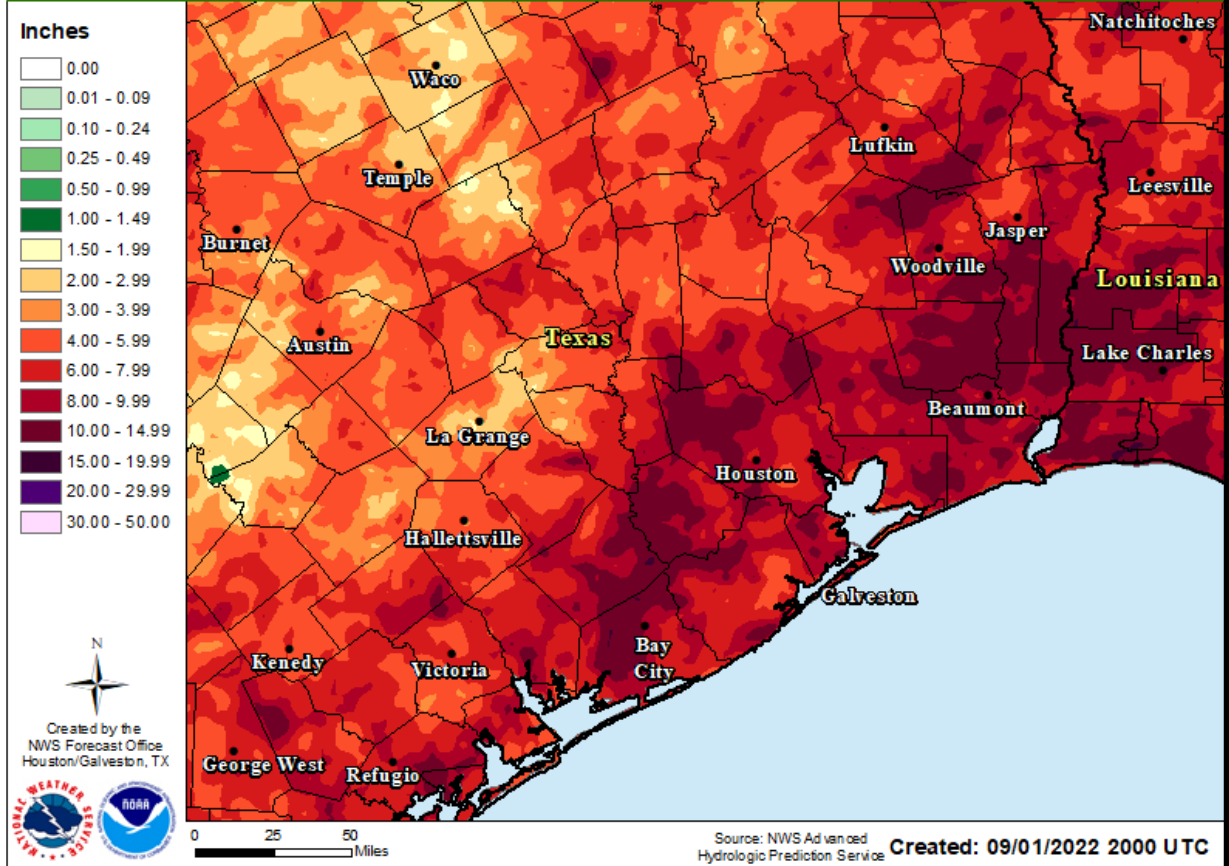
Houston-Hobby

Palacios

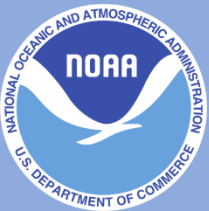
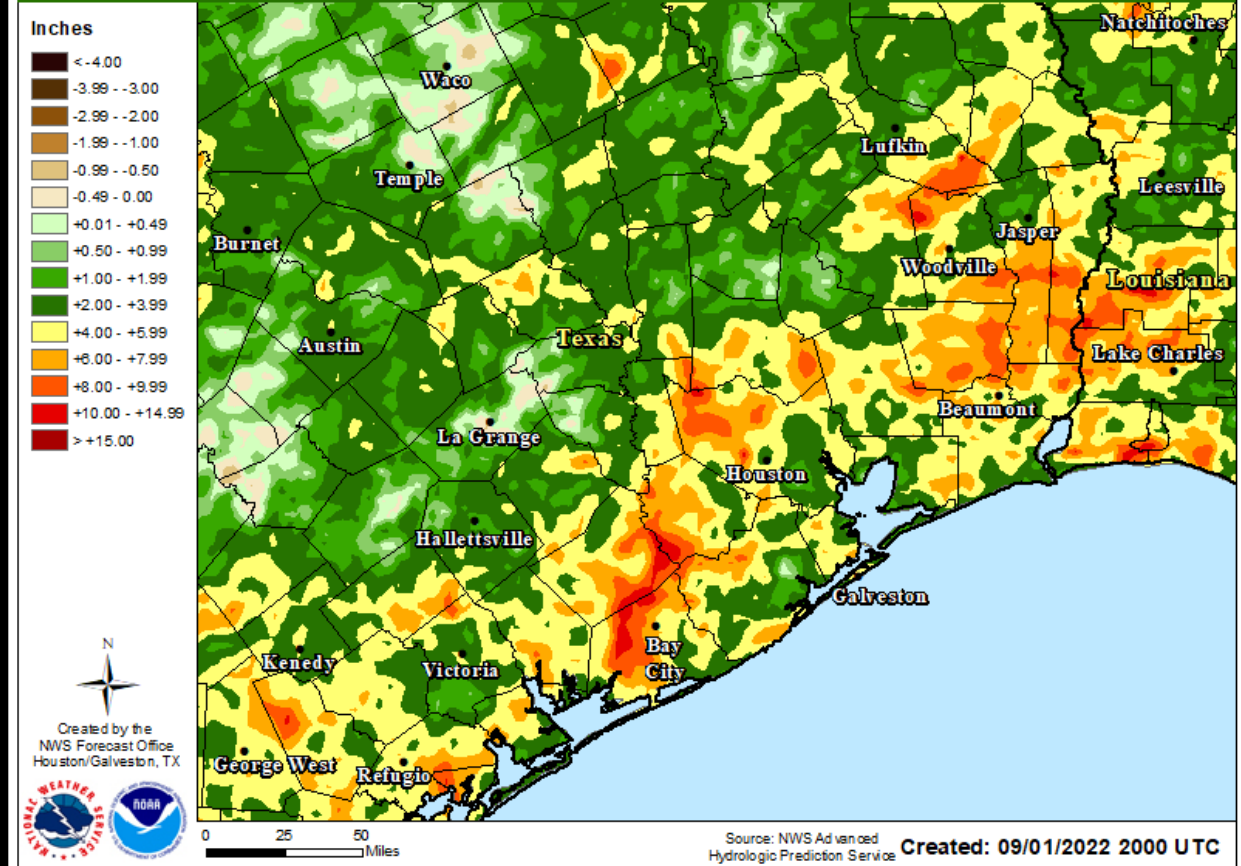


# Precipitation Maps

### Total Monthly Precipitation - August 2022



### Total Monthly Precipitation Departure From Normal - August 2022

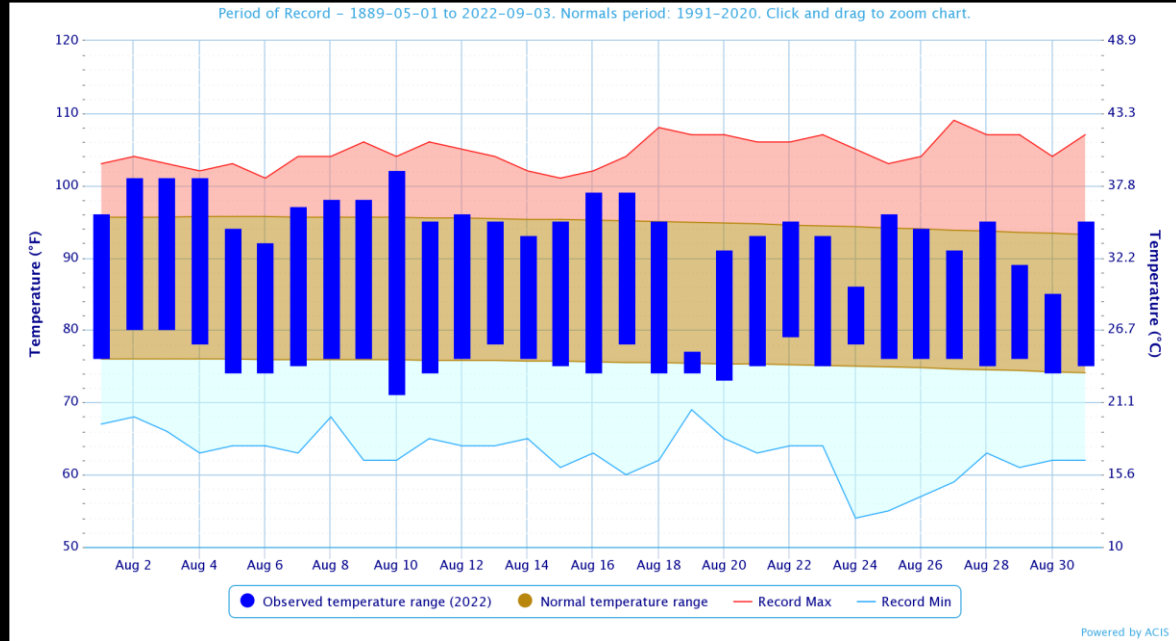


# Temperature

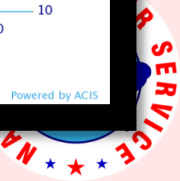
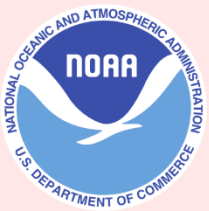
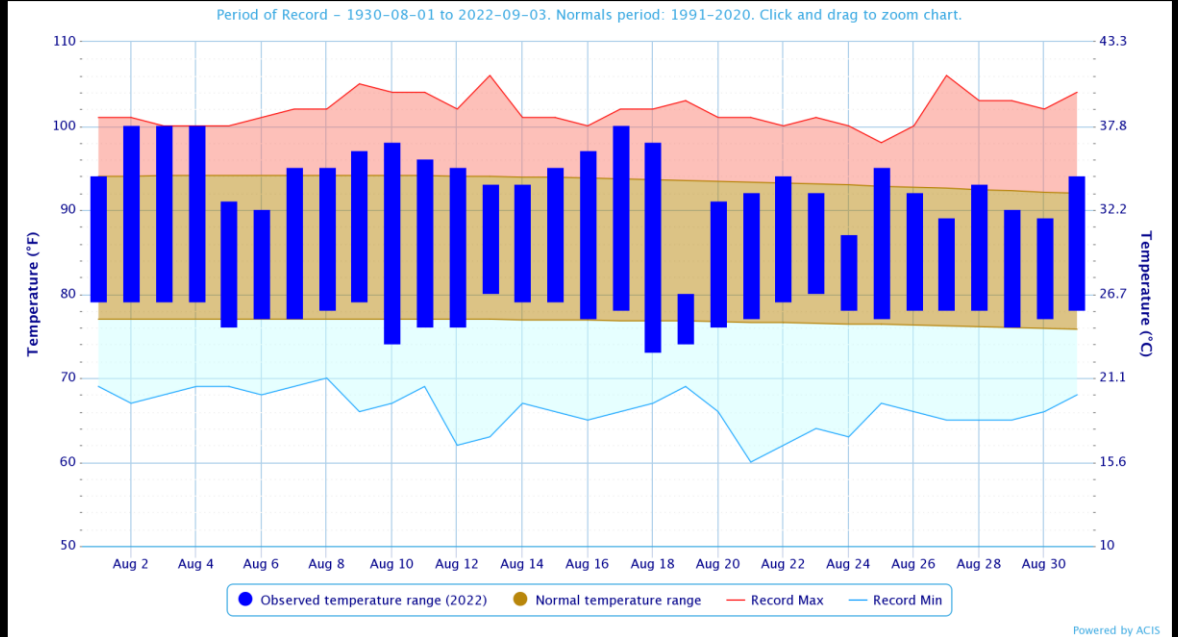
Location	Average High Temp (F)	Average Low Temp (F)	Average Temp (F)	Departure From Normal Average (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	91.9	81.6	86.8	<b>+0.9</b>	95 on the 3 <sup>rd</sup> , 10 <sup>th</sup> & 18 <sup>th</sup>	77 on the 18 <sup>th</sup> & 24 <sup>th</sup>
Houston Hobby (HOU)	93.7	77.5	85.6	<b>+0.5</b>	100 on the 3 <sup>rd</sup> , 4 <sup>th</sup> & 17 <sup>th</sup>	73 on the 18 <sup>th</sup>
City of Houston (IAH)	94.4	75.7	85.1	<b>-0.1</b>	102 on the 10 <sup>th</sup>	71 on the 10 <sup>th</sup>
College Station (CLL)	98.5	76.8	87.6	<b>+1.9</b>	105 on the 3 <sup>rd</sup>	74 on the 25 <sup>th</sup>
Palacios (PSX)	92.2	79.6	85.9	<b>+0.3</b>	97 on the 11 <sup>th</sup>	75 on the 31 <sup>st</sup>

# Temperature Charts

## City of Houston



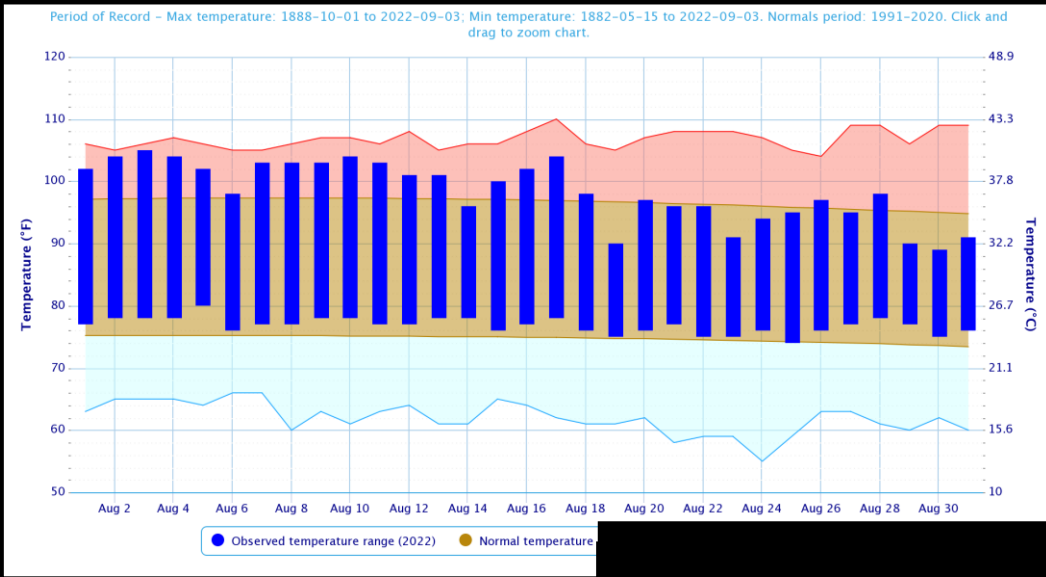
## Houston-Hobby



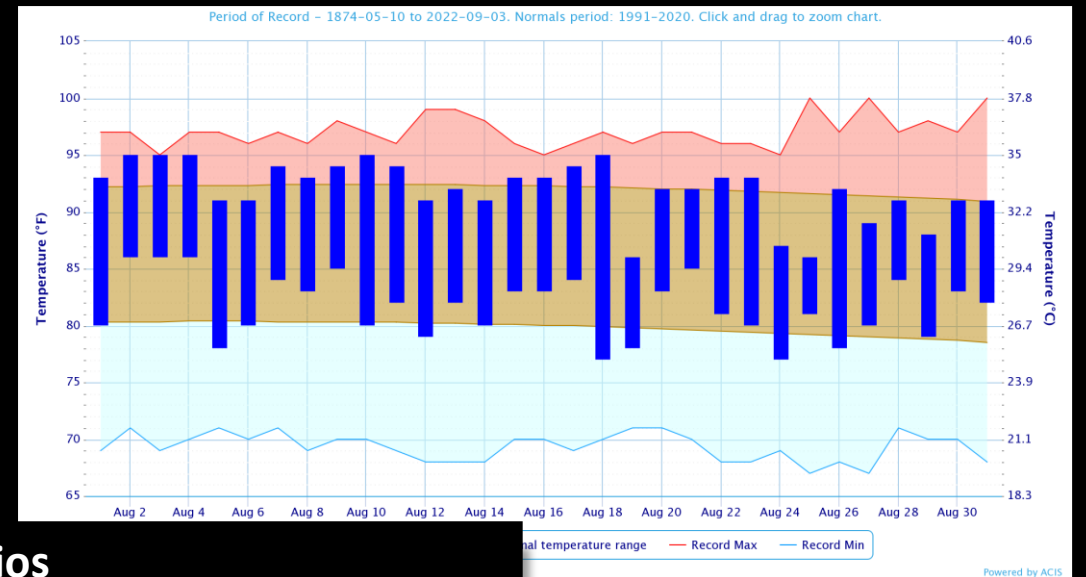


# Temperature Charts

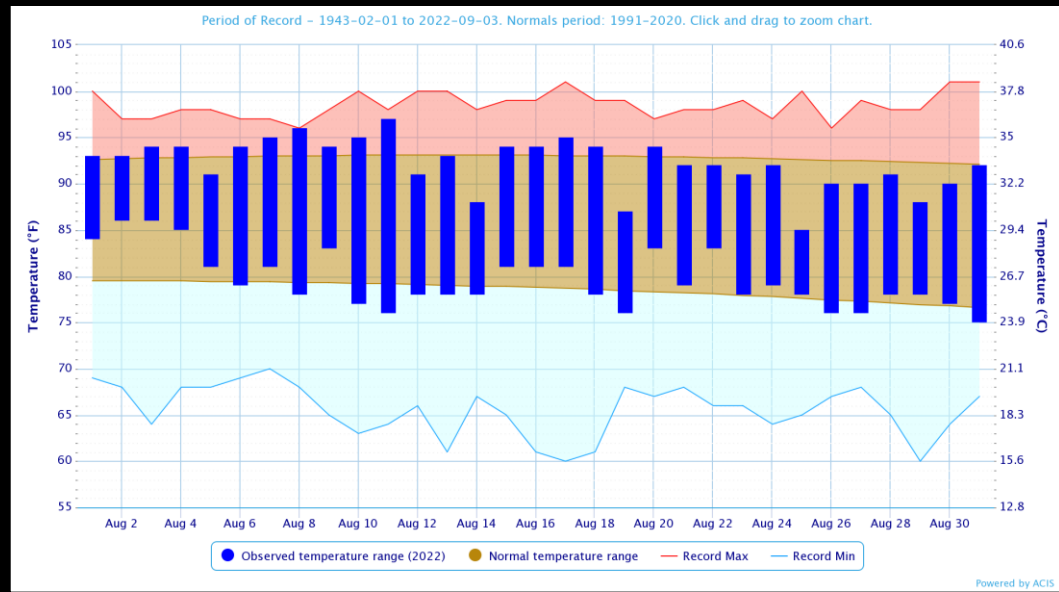
### City of College Station



### City of Galveston



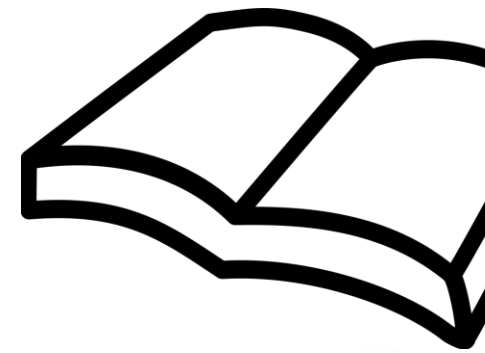
### Palacios



# Daily Record Reports – City of College Station

Date	Record Type	New Record	Previous Record
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**No Daily Records.**



**High Max**

**Low Max**

**Precip**

Key

**Snow**

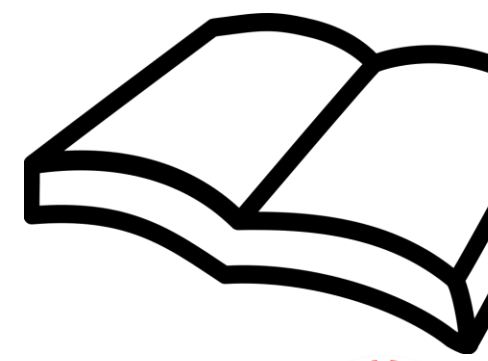
**High Min**

**Low Min**



# Daily Record Reports – City of Houston

Date	Record Type	New Record	Previous Record
19 <sup>th</sup>	Low Maximum	77° - T	77° in 1967



Key

High Max

Low Max

Precip

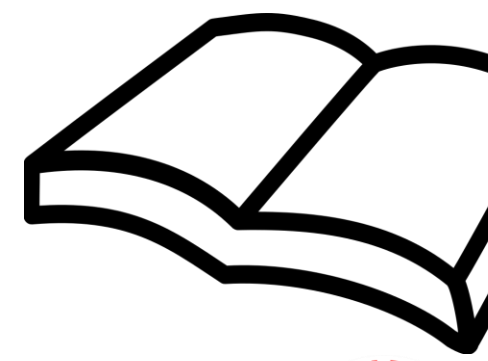
Snow

High Min

Low Min

# Daily Record Reports – Houston-Hobby

Date	Record Type	New Record	Previous Record
3 <sup>rd</sup>	High Maximum	100° - T	100° in 2011
4 <sup>th</sup>	High Maximum	100° - T	100° in 1956



Key

High Max

Low Max

Precip

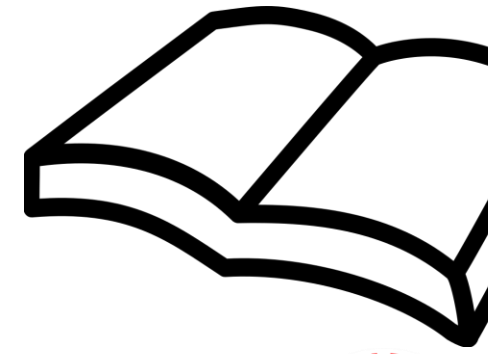
Snow

High Min

Low Min

# Daily Record Reports – City of Galveston

Date	Record Type	New Record	Previous Record
2 <sup>nd</sup>	High Minimum	86°	84° in 1996
3 <sup>rd</sup>	High Minimum	86°	84° in 2012
3 <sup>rd</sup>	High Maximum	95° - T	95° in 2004
4 <sup>th</sup>	High Minimum	86°	84° in 2012
9 <sup>th</sup>	High Minimum	85° - T	85° in 2020
17 <sup>th</sup>	High Minimum	84° - T	84° in 2017
21 <sup>st</sup>	High Minimum	85° - T	85° in 2021



Key

High Max

Low Max

Precip

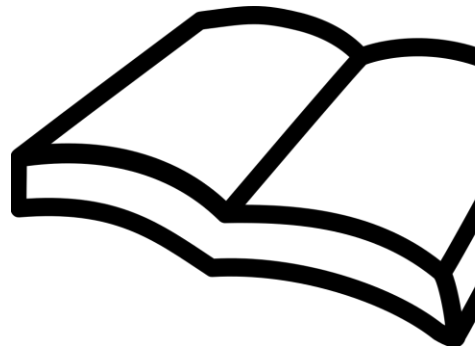
Snow

High Min

Low Min

# Daily Record Reports – Palacios

Date	Record Type	New Record	Previous Record
1 <sup>st</sup>	High Minimum	84° - T	84° in 2021
2 <sup>nd</sup>	High Minimum	86°	83° in 2021
3 <sup>rd</sup>	High Minimum	86°	84° in 2011
4 <sup>th</sup>	High Minimum	85°	84° in 2015
8 <sup>th</sup>	High Maximum	96° - T	96° in 1981



Key

High Max

Low Max

Precip

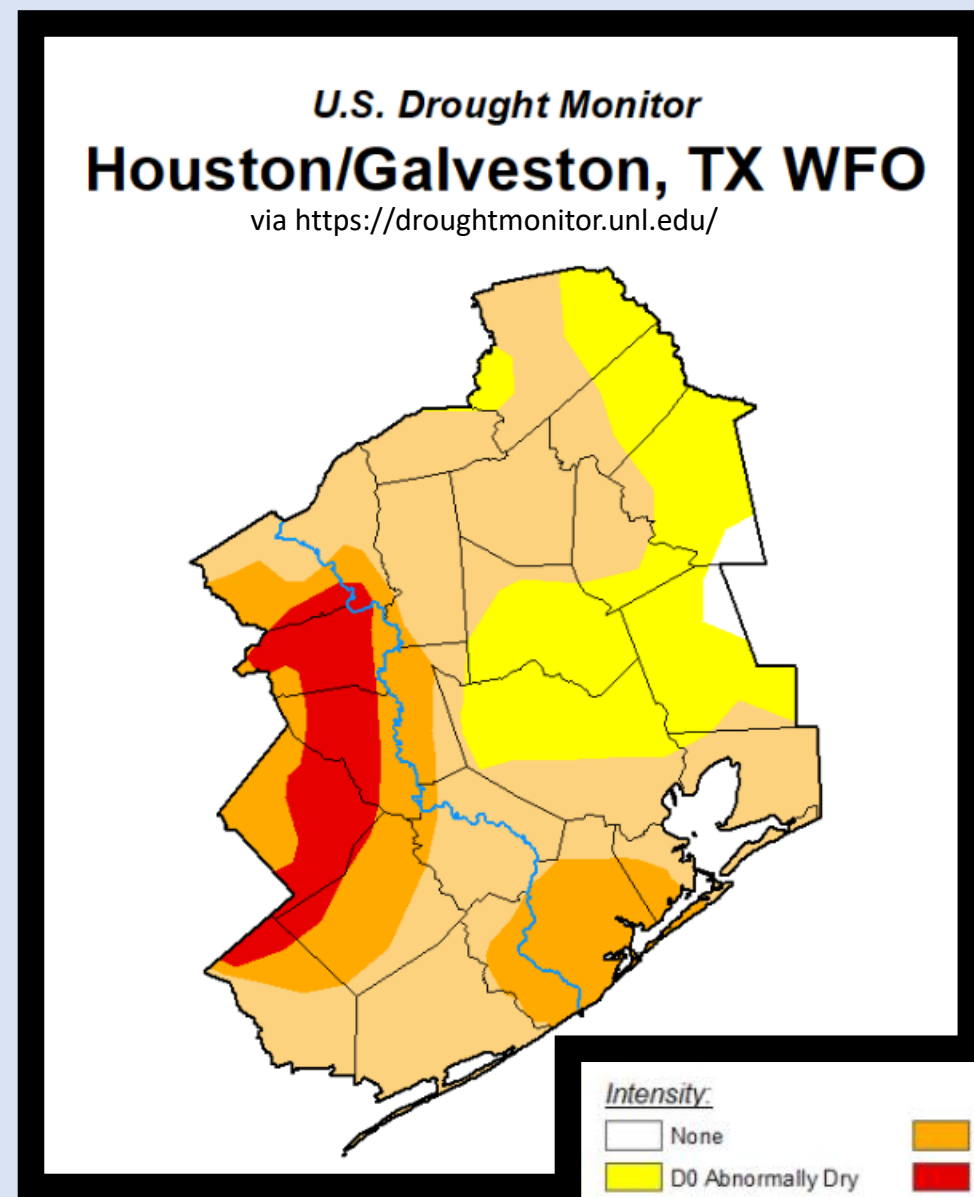
Snow

High Min

Low Min

# Drought Monitor

## As of August 30<sup>th</sup>



*Near normal temperatures and widespread above normal precipitation led to rapid drought improvement across the area. There are no areas of Exceptional Drought (D4) remaining in the area with just one segment of Extreme Drought (D3) left spreading from northern Jackson County up through southern Burleson County. Moderate (D1) to Severe (D2) drought remains for most of the remaining region, but continued drought improvements are expected in the coming weeks – especially along the coast.*

Intensity:

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

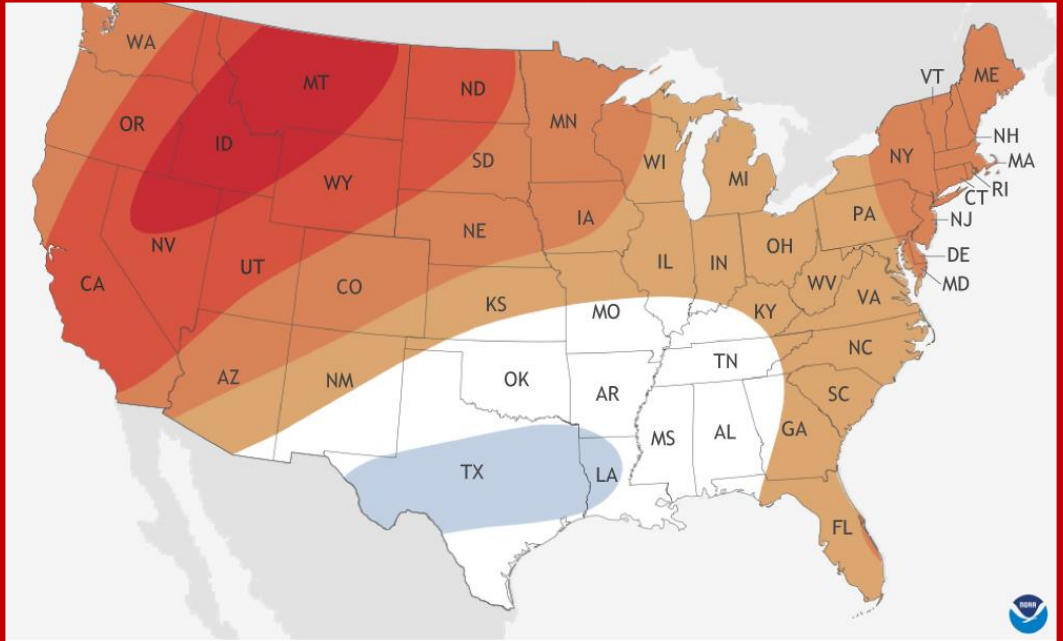
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>



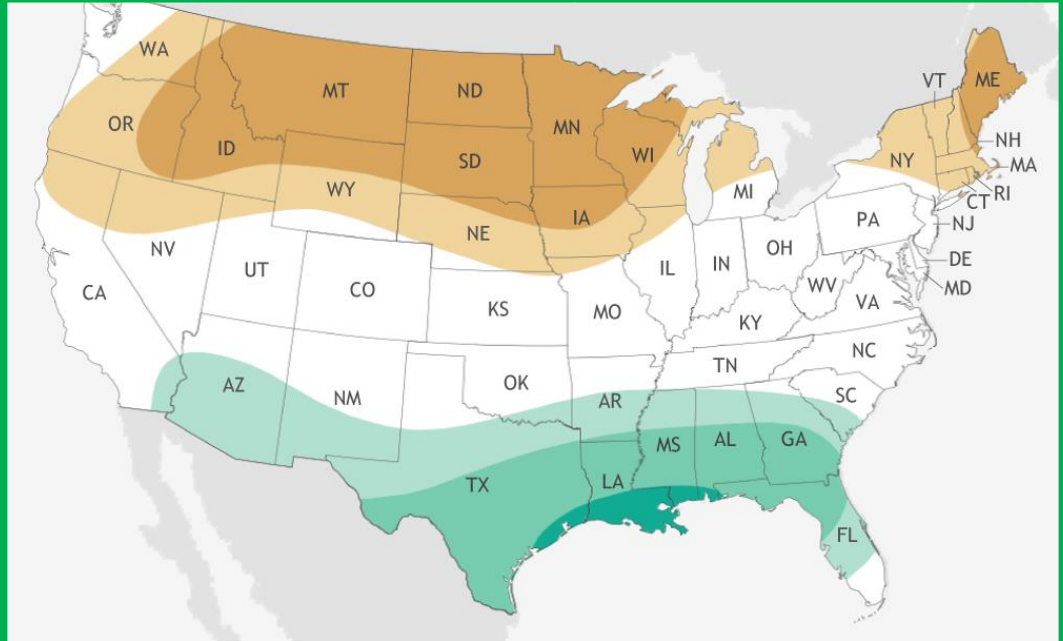
# September Outlook

Location	Average Temp(°F)	Normal High (°F)	Normal Low (°F)
Galveston	82.4	88.7	76.1
Houston Hobby	81.1	89.3	72.9
City of Houston	80.5	90.4	70.6
College Station	80.6	91.2	70.0
Palacios	81.5	90.0	73.0

Location	Normal Monthly Precipitation (in.)
Galveston	6.65
Houston Hobby	5.76
City of Houston	4.71
College Station	3.50
Palacios	5.88



Temperature Outlook for September 2022 Issued 31 Aug 2022  
 Probability (percent chance)  
 cooler than normal equal chances warmer than normal  
 NOAA Climate.gov Data: CPC



Precipitation Outlook for September 2022 Issued 31 Aug 2022  
 Probability (percent chance)  
 drier than normal equal chances wetter than normal  
 NOAA Climate.gov Data: CPC

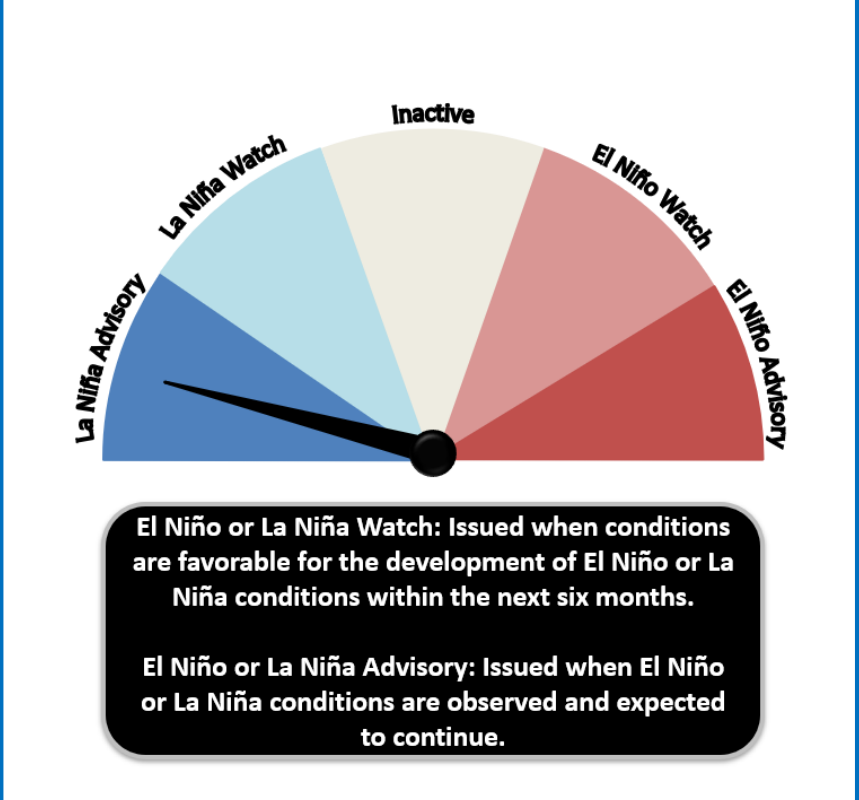
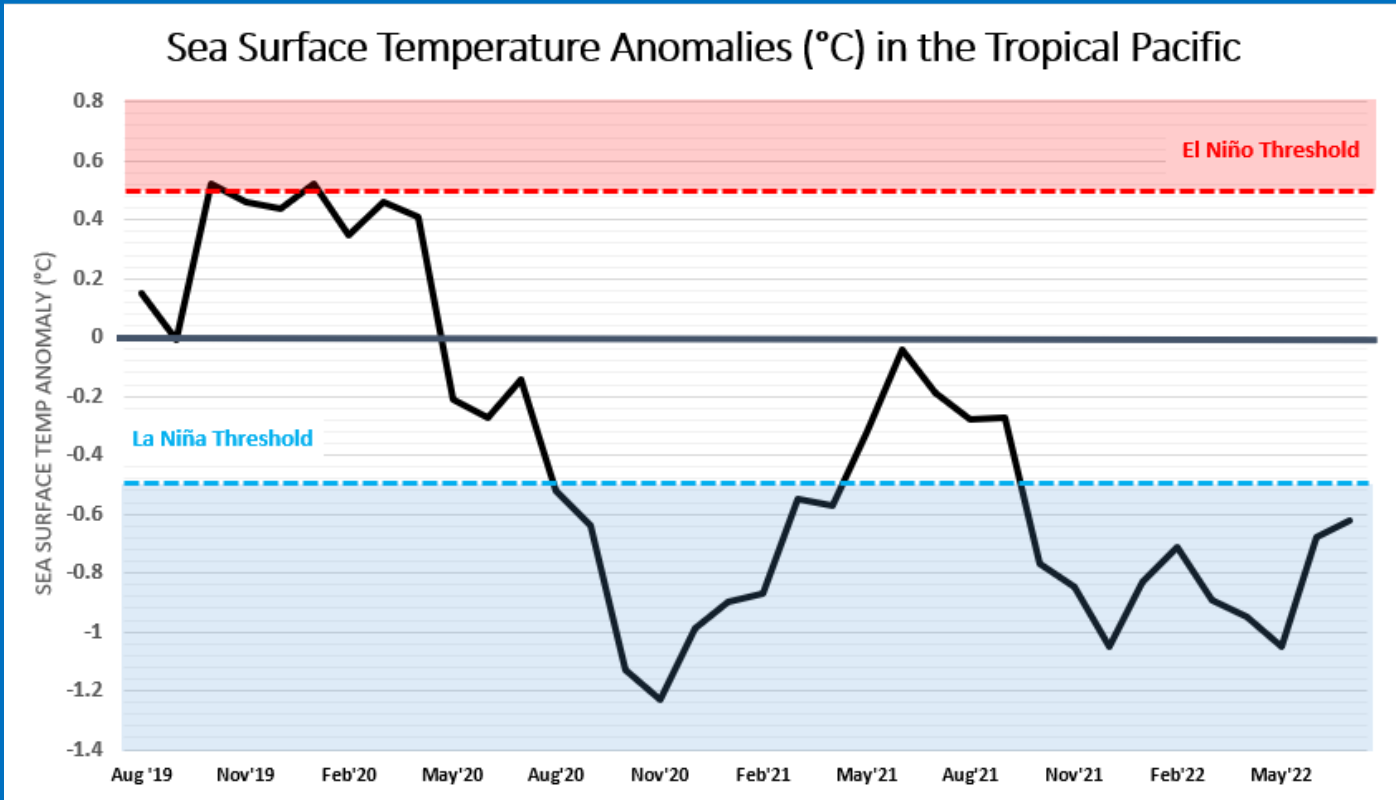




## Current ENSO Phase: **La Niña**

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

- La Niña conditions are expected to continue through the Winter.



# 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.*

