

Houston Pilots Tropical Update

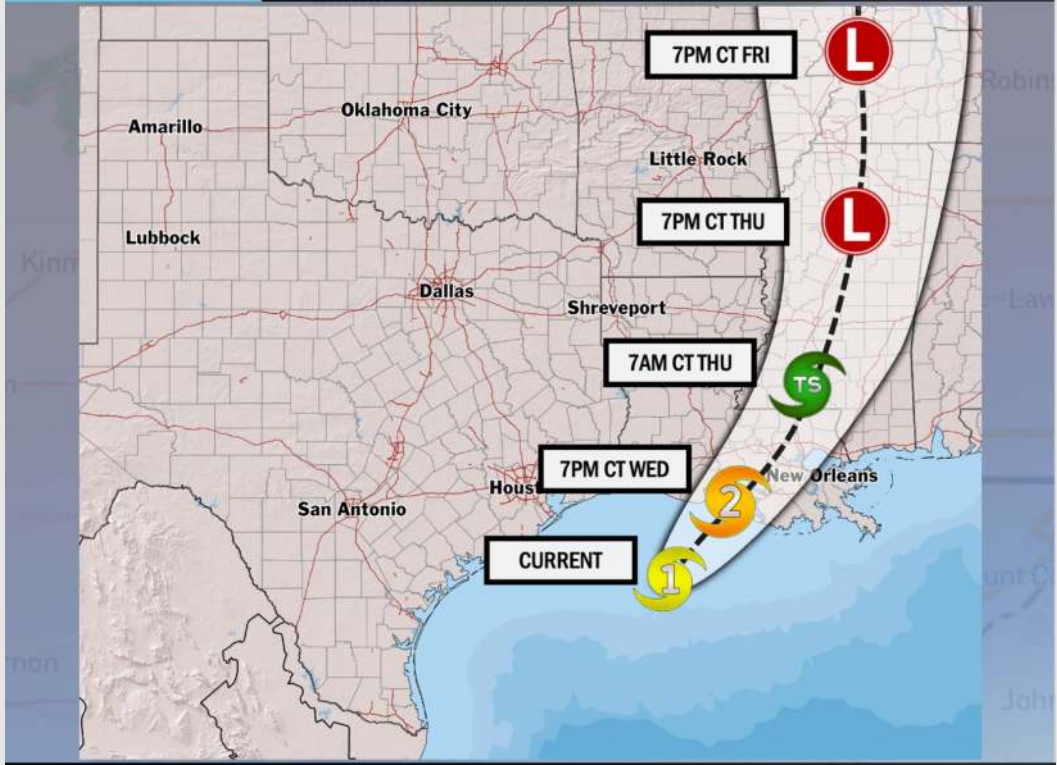


HURRICANE FRANCINE

DAILY INSIGHT

12:30 PM CT Wednesday, September 11, 2024

Forecaster: Elliott



TIMING: NOW – FRIDAY PM

FORECAST NOTES:

- ✓ Francine continues to move NE this PM as a Cat 1 Hurricane
- ✓ We continue to note the risk of potential rapid intensification prior to landfall, resulting in Francine making Landfall as a Category 2 (96-110 MPH)
- ✓ Landfall: Wednesday PM near Vermillion Bay, LA



Houston Pilots Forecast Package



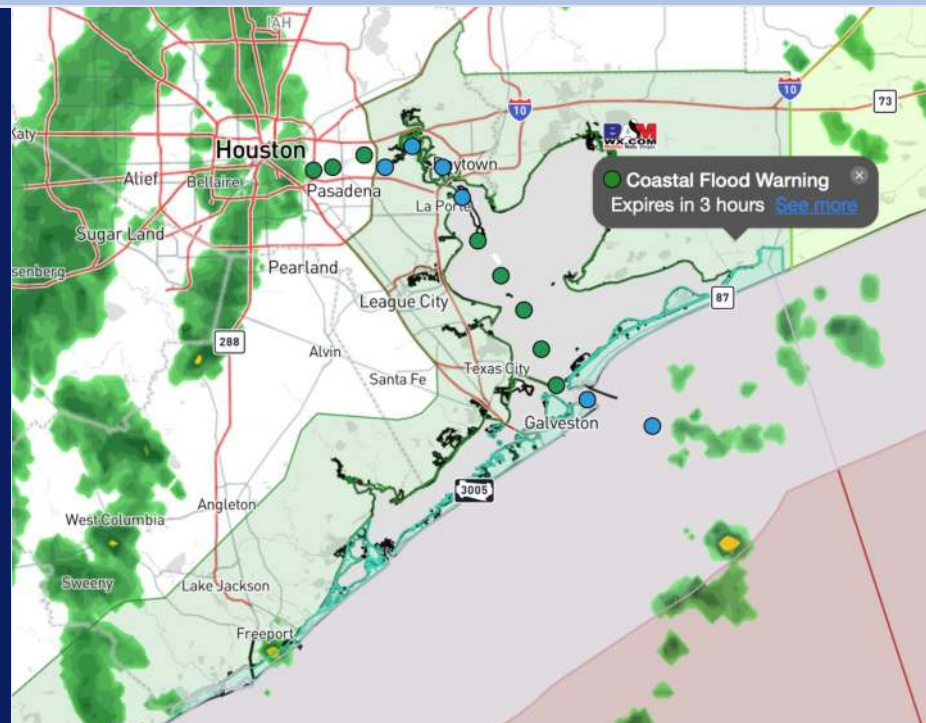
Updated: 12:50 PM CT

Wednesday, September 11, 2024

Forecaster: Hope Kleitsch

Weather Headlines

- **Zulu Port Conditions are in effect (see Trigger Slide below)**
- Anticipating wave heights to drop back below 6 ft by 7 PM today. See wave height slide for more info.
- Peak wind gusts of 22 kts possible until 4 PM today S. of Morgan's Point.
- [Hurricane Video Update \(as of WED AM\)](#)



Current Radar: 12:45 PM CT



As always, please do not hesitate to reach out to us with any forecast questions via the chat option on Clarity or our on-call number, **(317)-560-8122** press **1** for forecast questions.

Houston Pilots Port Trigger Update

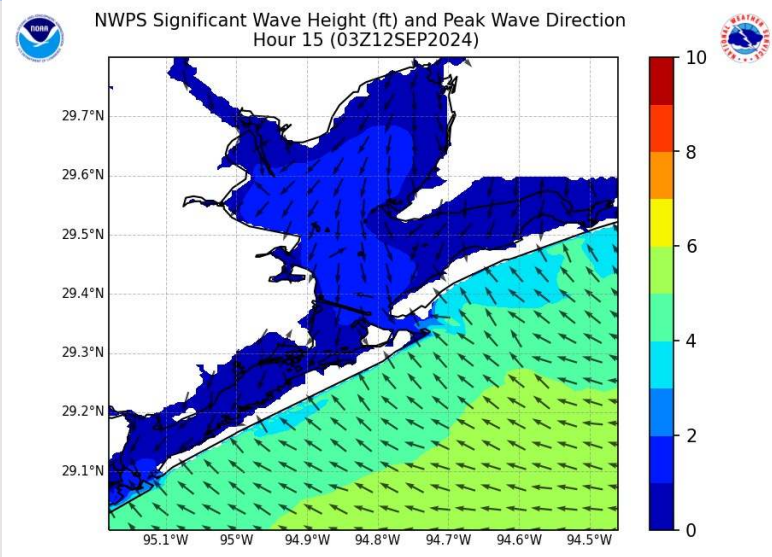


| Port Condition | 34 KTS+ Sustained Wind Trigger Reached at: | 6 Foot Wave Trigger Reached at: | Time Remaining/Trigger Ends At: |
|----------------|--|---------------------------------|---------------------------------|
| Victor | — | — | — |
| Whiskey | Past This Trigger | — | Ended |
| X-Ray | Past This Trigger | Past This Trigger | Ended |
| Yankee | Past This Trigger | Past This Trigger | Past This Trigger |
| Zulu | CURRENT | CURRENT | 7 PM CT WED |

| Port Condition | Trigger Definition | Trigger Reached? |
|----------------|---|------------------|
| Victor | Hurricane entering/developing in Gulf of Mexico that's a threat to the area | Past |
| Whiskey | 72 hours prior to predicted sustained winds of 34+ KTS | Past |
| X-Ray | 48 hours prior to predicted sustained winds of 34+ KTS or 6' wave height | Past |
| Yankee | 24 hours prior to predicted sustained winds of 34+ KTS or 6' wave height | Past |
| Zulu | 12 hours prior to predicted sustained winds of 34+ KTS or 6' wave height | YES |

NOTES: Hurricane Francine has been upgraded to a Category 1 Hurricane east of the Texas/Mexico Border. Currently favoring direct landfall along Louisiana's Gulf Coast, however still expecting winds of 34+ kts and wave heights of 6+ ft for Houston / Galveston Bay through 7 PM.

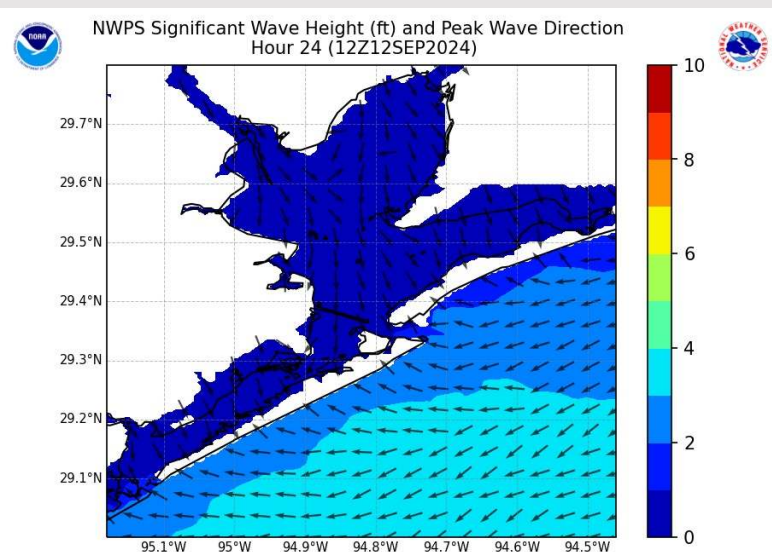
Wave Height Forecast Update



10 PM CT WED

Wave heights will gradually start to decrease throughout the afternoon and into the evening.

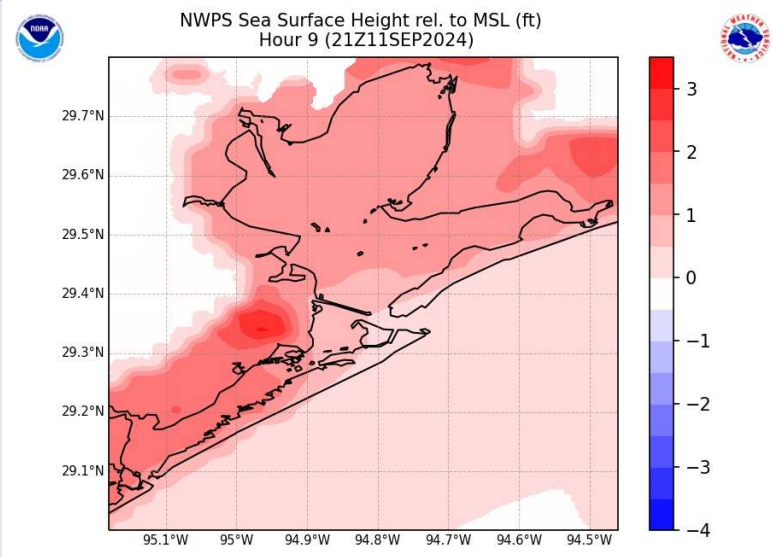
Monitoring for wave heights to be at/above 6 ft until ~10 PM today.



7 AM CT THU

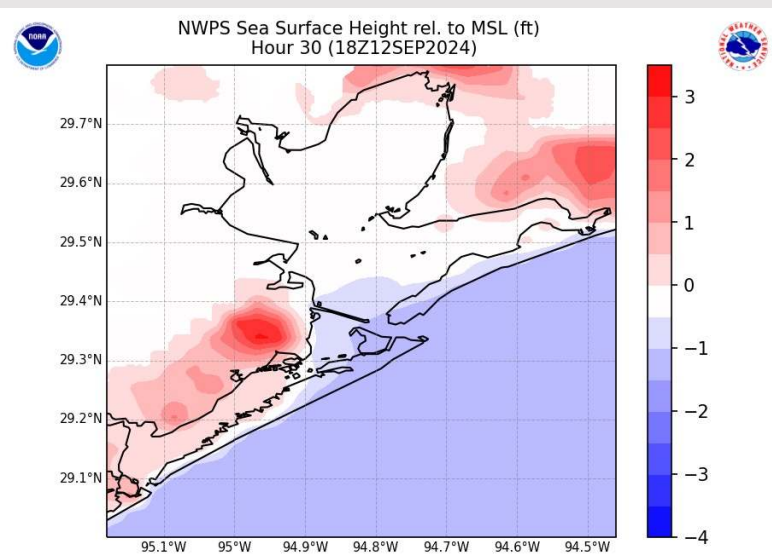
By 7 AM Thursday, wave heights are expected to be near 3 ft.

Tide + Surge Forecast Update



4 PM CT WED

Keeping an eye on increased tide and storm surge heights as Hurricane Francine pushes through the Gulf towards LA. Anticipating sea surface height to be 1 – 3 ft above the mean until 4 PM WED.



1 PM CT THU

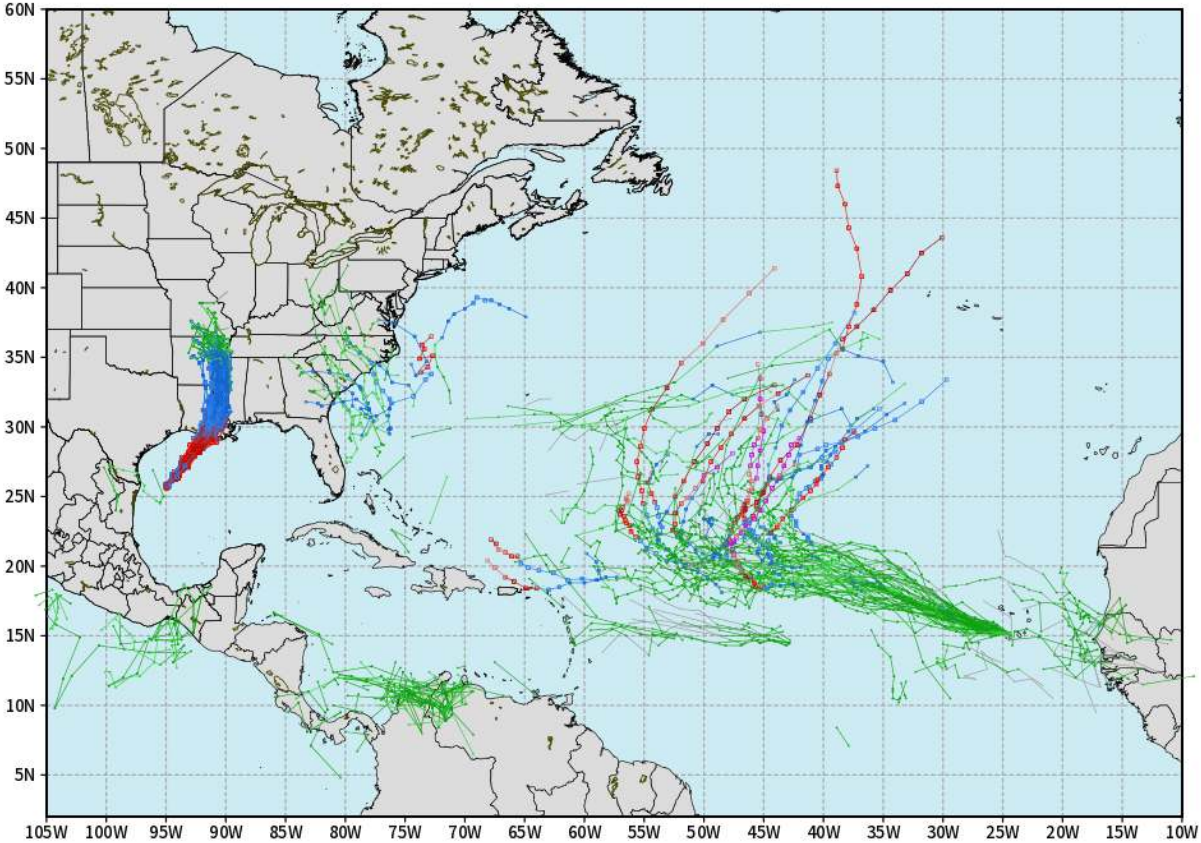
THU afternoon / evening, sea surface height may be 1 – 2 ft below the mean as Hurricane Francine moves further inland and winds shift out of the N.

Houston Pilots Tropical Update

European Model Next 10 Days - Tropical Tracks

ECMWF ATLANTIC EPS Cyclone Locations --> Next [10-days]
INIT: 00Z11SEP2024 --> UNTIL 00Z21SEP2024

o-o ENSEMBLE MEAN
o-o 1000 - 1010 hPa
o-o 980 - 999 hPa
o-o 960 - 979 hPa
o-o 950 - 959 hPa
o-o < 950 hPa



weathermodels.com

Monitoring Hurricane Francine for impacts as it makes landfall in LA today. Increased wave heights, high wind gusts, and heavy rain are all continued risks for stations primarily S of Morgan's Point.

Additional tropical development is anticipated in the Atlantic, though no impacts to HOU are expected at this time.

Houston Pilots Visibility Chart (miles)



Forecast Confidence



| Visibility | Wed 2 pm | Wed 3 pm | Wed 4 pm | Wed 5 pm | Wed 6 pm | Wed 7 pm | Wed 8 pm | Wed 9 pm | Wed 10 pm | Wed 11 pm | Thu 12 am | Thu 1 am | Thu 2 am | Thu 3 am | Thu 4 am | Thu 5 am | Thu 6 am | Thu 7 am | Thu 8 am | Thu 9 am | Thu 10 am | Thu 11 am | Thu 12 pm | Thu 1 pm |
|--------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|----------|
| Houston Pilots N - 610 Bridge | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 7.9 | 7.9 | 6.9 | 6.9 | 10 | 10 | 10 | 10 |
| Houston Pilots M - Kinder 1 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 7.9 | 6.9 | 6.9 | 10 | 10 | 10 | 10 |
| Houston Pilots L - Greens Bayou | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 7.9 | 6.9 | 6.9 | 10 | 10 | 10 | 10 |
| Houston Pilots K - Shell Crude | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 7.9 | 6.9 | 6.9 | 10 | 10 | 10 | 10 |
| Houston Pilots J - Lynchburg Ferries | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 7.9 | 6.9 | 6.9 | 10 | 10 | 10 | 10 |
| Houston Pilots I - Exxon 3 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 7.9 | 6.9 | 6.9 | 10 | 10 | 10 | 10 |
| Houston Pilots H - Morgans Point | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 6.9 | 6.9 | 10 | 10 | 10 | 10 |
| Houston Pilots G - 75/76 | 10 | 10 | 10 | 10 | 10 | 7.9 | 10 | 10 | 10 | 10 | 10 | 9 | 7.9 | 7.9 | 10 | 10 | 10 | 9 | 9 | 7.9 | 10 | 10 | 10 | 9 |
| Houston Pilots F - 63/64 | 10 | 10 | 10 | 10 | 10 | 7.9 | 10 | 10 | 10 | 10 | 10 | 9 | 7.9 | 7.9 | 10 | 10 | 10 | 10 | 9 | 7.9 | 10 | 10 | 10 | 9 |
| Houston Pilots E - 51/52 | 9 | 7.9 | 10 | 10 | 10 | 7.9 | 9 | 10 | 10 | 10 | 10 | 9 | 7.9 | 7.9 | 10 | 10 | 10 | 10 | 9 | 6.9 | 10 | 10 | 10 | 9 |
| Houston Pilots D - 37/38 | 9 | 7.9 | 10 | 10 | 10 | 7.9 | 9 | 10 | 10 | 10 | 10 | 9 | 7.9 | 7.9 | 10 | 10 | 10 | 10 | 9 | 6.9 | 10 | 10 | 10 | 10 |
| Houston Pilots C - 25/26 | 9 | 9 | 10 | 10 | 10 | 7.9 | 9 | 10 | 10 | 10 | 10 | 10 | 7.9 | 9 | 10 | 10 | 10 | 10 | 9 | 6.9 | 10 | 10 | 10 | 10 |
| Houston Pilots B - 11/12 | 7.9 | 9 | 10 | 10 | 10 | 7.9 | 9 | 10 | 10 | 10 | 10 | 9 | 7.9 | 9 | 10 | 10 | 10 | 10 | 9 | 6.9 | 10 | 10 | 10 | 10 |
| Houston Pilots A - 1 & 2 Bravo | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 6.9 | 6.9 | 7.9 | 9 | 10 | 10 | 10 | 9 | 6.9 | 9 | 10 | 10 | 10 |

NOTE: This is automated data that may/may not agree with the official BAM thinking that's found on the daily slides or special visibility report slides. This data should be used as a guide only

Houston Pilots Wind Chart



Forecast Confidence

Above Normal Below Normal

Sustained wind 10 Knots

Gusts 15 Knots

Wind from the SE

Example

10

15

↖

| Wind | Wed 2 pm | Wed 3 pm | Wed 4 pm | Wed 5 pm | Wed 6 pm | Wed 7 pm | Wed 8 pm | Wed 9 pm | Wed 10 pm | Wed 11 pm | Thu 12 am | Thu 1 am | Thu 2 am | Thu 3 am | Thu 4 am | Thu 5 am | Thu 6 am | Thu 7 am | Thu 8 am | Thu 9 am | Thu 10 am | Thu 11 am | Thu 12 pm | Thu 1 pm | |
|--------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|
| Houston Pilots N - 610 Bridge | 10 22 ↓ | 10 22 ↓ | 10 22 ↓ | 10 22 ↓ | 10 20 ↓ | 10 20 ↓ | 8 17 ↓ | 8 16 ↓ | 7 15 ↓ | 6 14 ↓ | 6 13 ↓ | 6 12 ↓ | 6 12 ↓ | 5 10 ↓ | 5 10 ↓ | 5 10 ↓ | 5 10 ↓ | 5 10 ↓ | 5 9 ↓ | 5 9 ↓ | 6 10 ↓ | 6 12 ↓ | 6 12 ↓ | 6 13 ↓ | |
| Houston Pilots M - Kinder 1 | 10 22 ↓ | 12 23 ↓ | 10 22 ↓ | 10 22 ↓ | 10 20 ↓ | 10 20 ↓ | 8 17 ↓ | 8 16 ↓ | 7 15 ↓ | 6 14 ↓ | 6 13 ↓ | 6 12 ↓ | 6 12 ↓ | 5 10 ↓ | 5 10 ↓ | 5 10 ↓ | 5 10 ↓ | 5 10 ↓ | 5 9 ↓ | 5 9 ↓ | 6 10 ↓ | 6 12 ↓ | 6 12 ↓ | 6 13 ↓ | |
| Houston Pilots L - Greens Bayou | 10 22 ↓ | 12 22 ↓ | 12 22 ↓ | 10 22 ↓ | 10 20 ↓ | 10 20 ↓ | 8 17 ↓ | 8 16 ↓ | 7 15 ↓ | 6 14 ↓ | 6 13 ↓ | 6 13 ↓ | 6 12 ↓ | 5 10 ↓ | 5 10 ↓ | 5 10 ↓ | 5 10 ↓ | 5 10 ↓ | 5 10 ↓ | 5 10 ↓ | 6 10 ↓ | 6 12 ↓ | 6 13 ↓ | 6 13 ↓ | |
| Houston Pilots K - Shell Crude | 10 22 ↓ | 12 22 ↓ | 12 22 ↓ | 10 22 ↓ | 10 20 ↓ | 10 20 ↓ | 8 17 ↓ | 8 16 ↓ | 7 15 ↓ | 6 14 ↓ | 6 13 ↓ | 6 13 ↓ | 6 12 ↓ | 5 10 ↓ | 5 12 ↓ | 5 12 ↓ | 5 10 ↓ | 5 10 ↓ | 5 10 ↓ | 5 10 ↓ | 6 10 ↓ | 6 12 ↓ | 6 13 ↓ | 6 13 ↓ | |
| Houston Pilots J - Lynchburg Ferries | 12 22 ↓ | 12 22 ↓ | 12 22 ↓ | 10 22 ↓ | 10 20 ↓ | 10 20 ↓ | 8 17 ↓ | 8 16 ↓ | 7 15 ↓ | 6 14 ↓ | 6 13 ↓ | 6 13 ↓ | 5 12 ↓ | 5 12 ↓ | 5 12 ↓ | 5 12 ↓ | 5 10 ↓ | 5 10 ↓ | 5 10 ↓ | 5 10 ↓ | 5 10 ↓ | 6 10 ↓ | 6 12 ↓ | 6 13 ↓ | 6 13 ↓ |
| Houston Pilots I - Exxon 3 | 15 23 ↓ | 15 23 ↓ | 15 23 ↓ | 15 22 ↓ | 14 21 ↓ | 14 20 ↓ | 13 18 ↓ | 13 18 ↓ | 13 17 ↓ | 12 17 ↓ | 10 16 ↓ | 10 15 ↓ | 10 15 ↓ | 10 14 ↓ | 9 14 ↓ | 9 14 ↓ | 9 14 ↓ | 8 13 ↓ | 8 13 ↓ | 8 13 ↓ | 8 12 ↓ | 8 13 ↓ | 8 13 ↓ | 8 14 ↓ | 8 14 ↓ |
| Houston Pilots H - Morgans Point | 15 23 ↓ | 15 23 ↓ | 15 23 ↓ | 15 22 ↓ | 14 21 ↓ | 14 20 ↓ | 13 18 ↓ | 13 18 ↓ | 13 17 ↓ | 12 17 ↓ | 10 16 ↓ | 10 15 ↓ | 10 15 ↓ | 9 14 ↓ | 9 14 ↓ | 9 14 ↓ | 9 14 ↓ | 8 13 ↓ | 8 13 ↓ | 8 13 ↓ | 8 12 ↓ | 8 13 ↓ | 8 13 ↓ | 8 14 ↓ | 8 14 ↓ |
| Houston Pilots G - 75/76 | 16 24 ↓ | 16 25 ↓ | 16 24 ↓ | 15 23 ↓ | 15 23 ↓ | 15 22 ↓ | 14 21 ↓ | 14 20 ↓ | 13 18 ↓ | 13 17 ↓ | 13 17 ↓ | 12 16 ↓ | 12 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 9 14 ↓ | 9 14 ↓ | 8 14 ↓ | 8 14 ↓ | 8 14 ↓ | 8 14 ↓ |
| Houston Pilots F - 63/64 | 16 24 ↓ | 16 25 ↓ | 16 24 ↓ | 15 23 ↓ | 15 23 ↓ | 15 22 ↓ | 14 21 ↓ | 14 20 ↓ | 13 18 ↓ | 13 18 ↓ | 13 17 ↓ | 12 16 ↓ | 12 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 9 14 ↓ | 9 14 ↓ | 8 14 ↓ | 8 14 ↓ | 8 14 ↓ | 8 13 ↓ |
| Houston Pilots E - 51/52 | 17 25 ↓ | 17 26 ↓ | 17 25 ↓ | 16 24 ↓ | 15 24 ↓ | 15 22 ↓ | 15 21 ↓ | 14 20 ↓ | 14 20 ↓ | 14 18 ↓ | 13 17 ↓ | 13 16 ↓ | 12 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 9 14 ↓ | 9 14 ↓ | 8 14 ↓ | 8 14 ↓ | 8 14 ↓ | 8 13 ↓ |
| Houston Pilots D - 37/38 | 17 25 ↓ | 17 26 ↓ | 17 25 ↓ | 16 24 ↓ | 16 24 ↓ | 15 22 ↓ | 15 22 ↓ | 15 20 ↓ | 14 20 ↓ | 14 18 ↓ | 13 17 ↓ | 13 16 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 9 14 ↓ | 9 14 ↓ | 8 14 ↓ | 8 14 ↓ | 8 14 ↓ | 8 13 ↓ |
| Houston Pilots C - 25/26 | 17 25 ↓ | 17 26 ↓ | 17 26 ↓ | 16 24 ↓ | 15 24 ↓ | 15 22 ↓ | 15 22 ↓ | 14 21 ↓ | 14 20 ↓ | 13 18 ↓ | 13 17 ↓ | 12 16 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 10 15 ↓ | 9 14 ↓ | 9 14 ↓ | 8 14 ↓ | 8 14 ↓ | 8 14 ↓ | 8 13 ↓ |
| Houston Pilots B - 11/12 | 17 26 ↓ | 17 26 ↓ | 17 26 ↓ | 16 24 ↓ | 15 23 ↓ | 14 22 ↓ | 13 21 ↓ | 13 20 ↓ | 13 20 ↓ | 12 18 ↓ | 10 17 ↓ | 10 16 ↓ | 9 15 ↓ | 9 15 ↓ | 9 15 ↓ | 9 15 ↓ | 9 15 ↓ | 9 15 ↓ | 8 15 ↓ | 8 15 ↓ | 8 14 ↓ | 8 14 ↓ | 8 14 ↓ | 8 14 ↓ | 8 13 ↓ |
| Houston Pilots A - 1 & 2 Bravo | 21 31 ↓ | 20 31 ↓ | 20 29 ↓ | 18 29 ↓ | 17 28 ↓ | 17 26 ↓ | 16 24 ↓ | 16 23 ↓ | 15 23 ↓ | 15 22 ↓ | 14 21 ↓ | 13 20 ↓ | 13 17 ↓ | 13 17 ↓ | 12 16 ↓ | 12 16 ↓ | 12 16 ↓ | 12 16 ↓ | 12 16 ↓ | 10 16 ↓ | 10 16 ↓ | 10 15 ↓ | 9 15 ↓ | 8 15 ↓ | |

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Houston Pilots: WED. 9/11/2024



Forecast Discussion

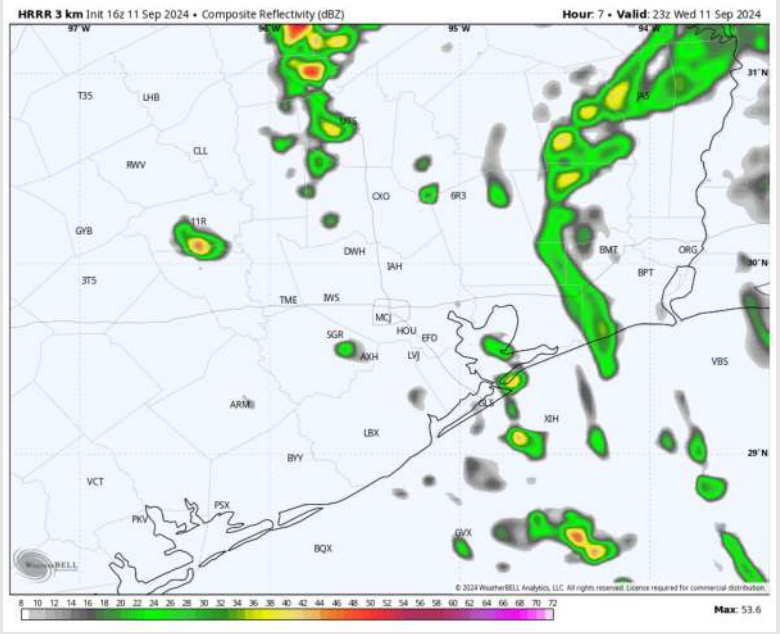
Precip: Scattered showers and storms expected for all stations through 10 PM before clearing out for the rest of the night.

Wind: Winds will be out of the NE through the rest of the day. **N of Morgan's Point:** Winds will be at 8-13 kts, decreasing to 3-8 kts after 7 PM and for the remainder of the night. **S of Morgan's Point:** Sustained winds will be 15-20 kts the rest of the day. **Peak wind gusts up to 22 kts possible through 4 PM.**

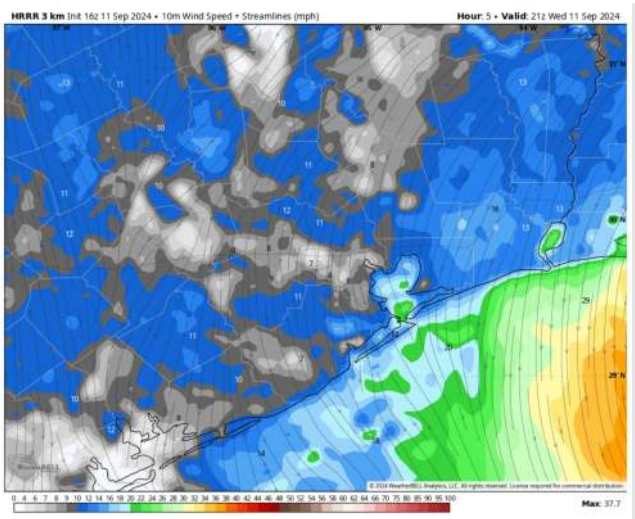
Low Temps: **N of Morgan's Point:** Lower 70s F. **S of Morgan's Point:** Low to mid 70s.

Visibility: Not anticipating any fog concerns for Wednesday, however visibilities will be reduced under heavy downpours.

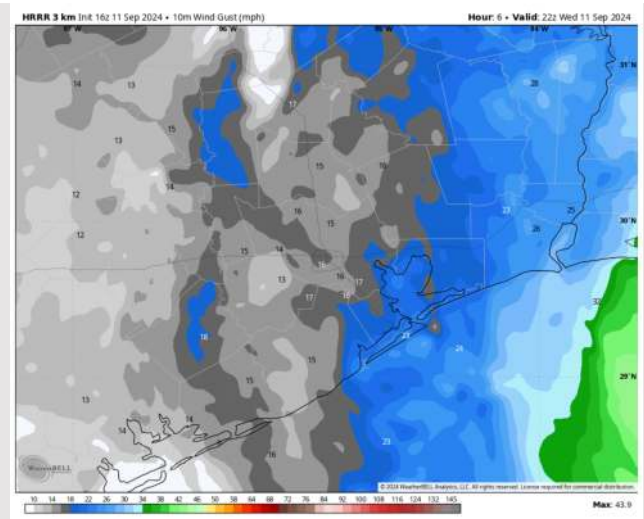
Precip Image: 6 PM CT



Wind Speed:
4 PM CT



Wind Gusts:
3 PM CT



Houston Pilots: THU. 9/12/2024



Forecast Discussion

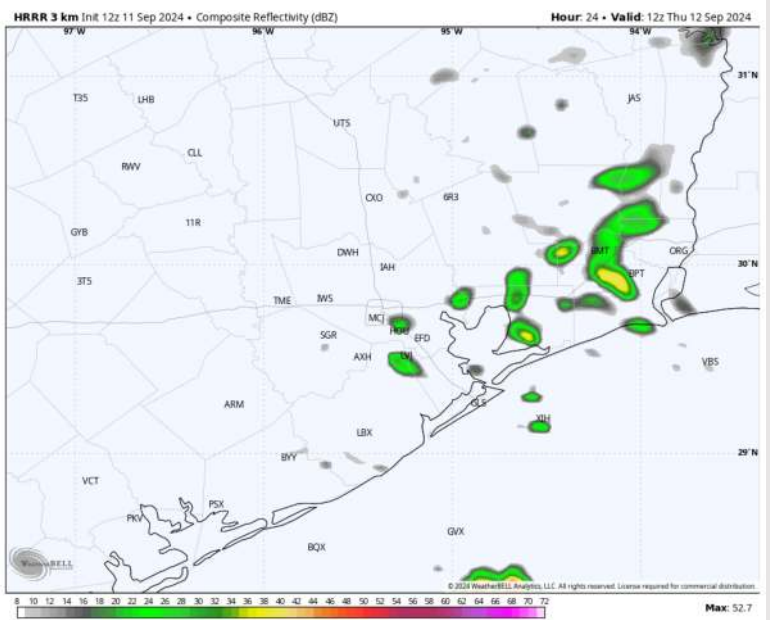
Precip: Isolated light showers will be possible from 6 AM – 9 AM. Favoring dry conditions for the remainder of Thursday.

Wind: Winds will be out of the N/NW throughout the day on THU. **N of Morgan's Point:** Winds will be sustained at 4-9 kts throughout the day. **S of Morgan's Point:** Winds will be sustained at 9-15 kts throughout the day.

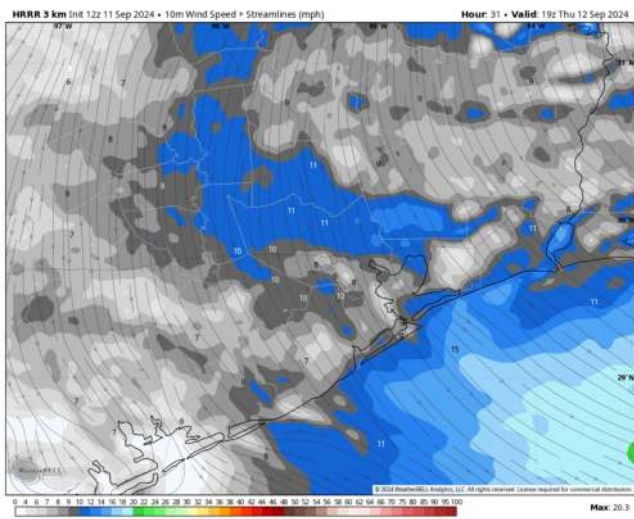
High Temps: **N of Morgan's Point:** Upper 80s to low 90s F. **S of Morgan's Point:** Mid 80s F

Visibility: Not anticipating any fog concerns for THU.

Precip Image: 7 AM CT

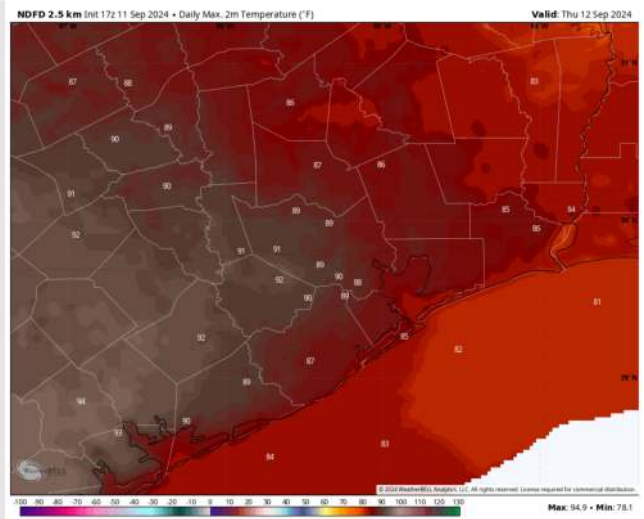


Wind Speed: 2 PM CT



Wind Speed:
2 PM CT

High Temps Thursday



High Temps
Thursday

Houston Pilots: FRI. 9/13/2024



Forecast Discussion

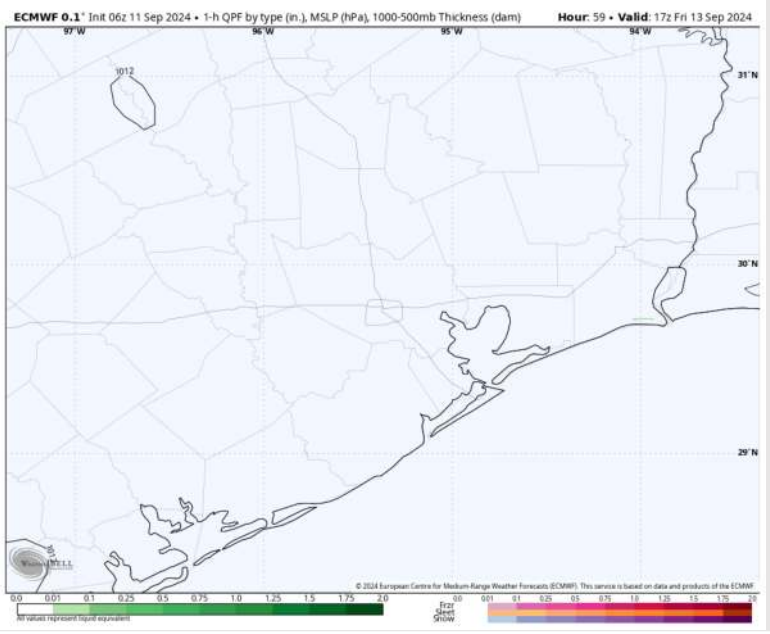
Precip: Favoring dry conditions for Friday.

Wind: Winds will be generally out of the W/SW through most of the day, becoming variable at times. **N of Morgan's Point:** Winds at 3-8 kts throughout the day. **S of Morgan's Point:** Winds will be 4-9 kts through 4 PM before slightly increasing to 7-12 kts the rest of the day Friday.

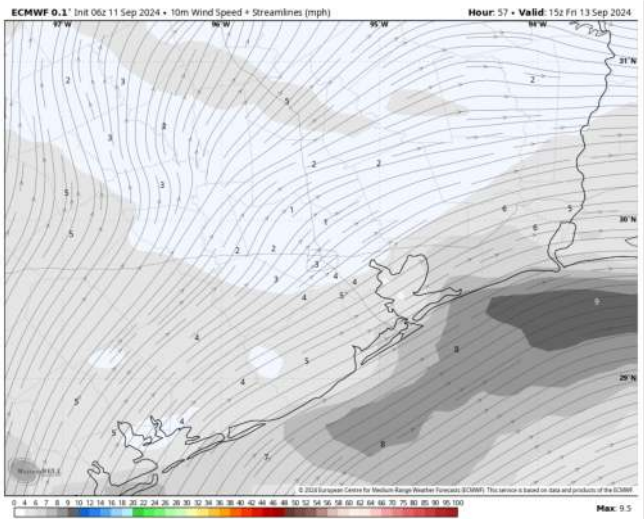
High Temps: **N of Morgan's Point:** Low 90s F. **S of Morgan's Point:** Mid to upper 80s F.

Visibility: Not favoring any fog concerns for Friday.

Precip Image: 12 PM CT

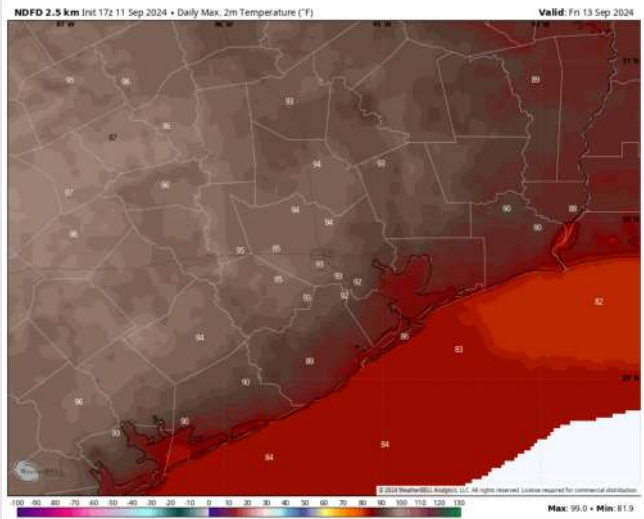


Wind Speed 10 AM CT



Wind Speed
10 AM CT

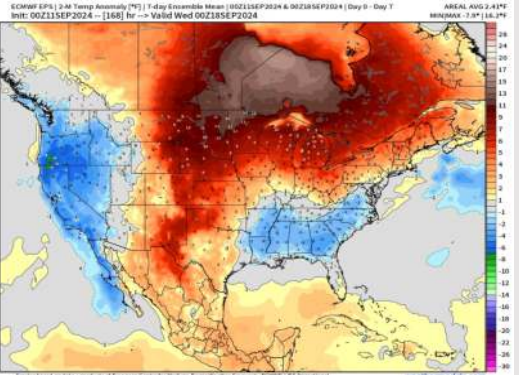
High Temps Friday



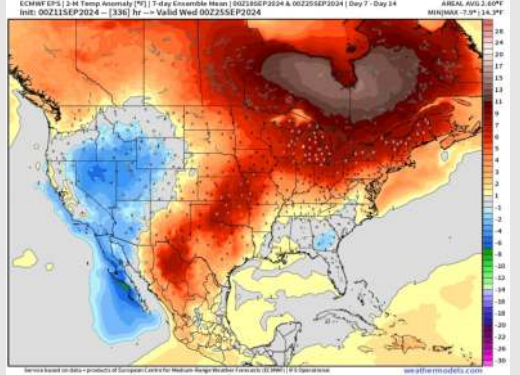
High Temps
Friday

Houston Pilots: 9/11/24

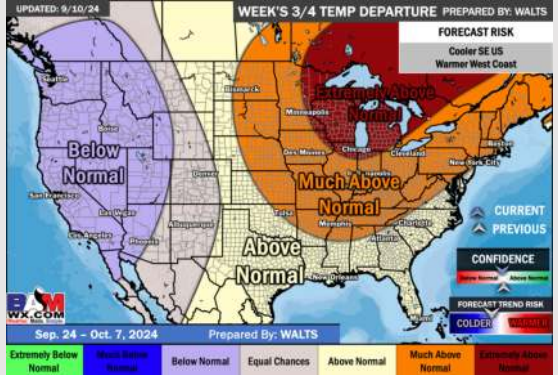
Next 7 Day Temperature Departure



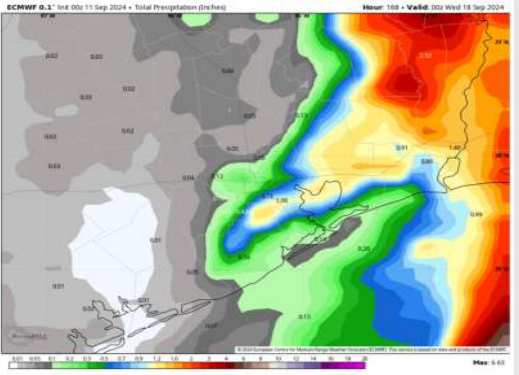
8-14 Day Temperature Departure



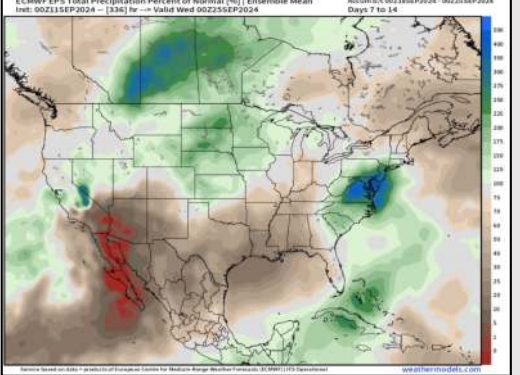
15-30 Day Temperature Departure



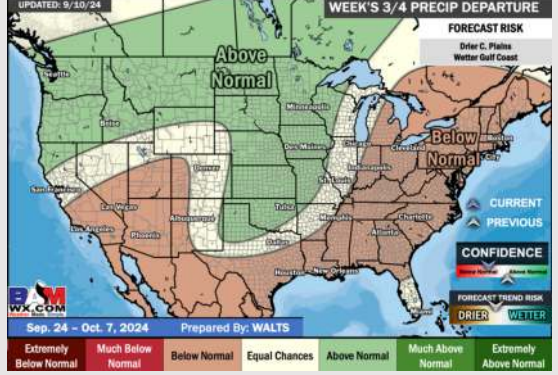
Next 7 Day Total Precipitation



8-14 Day % of Average Precip.



15-30 Day % of Average Precip.



- Temps are expected to be near normal for the week 1 timeframe. Hurricane Francine is expected to bring scattered showers/storms for all Stations through today.
- Near to slightly above normal temperatures are favored for week 2 with below normal rain chances. Tropical activity threats for late Week 1 / early Week 2 and beyond will continue to be monitored.
- Above normal temperatures and below normal precipitation chances are expected for the weeks 3/4 timeframe.