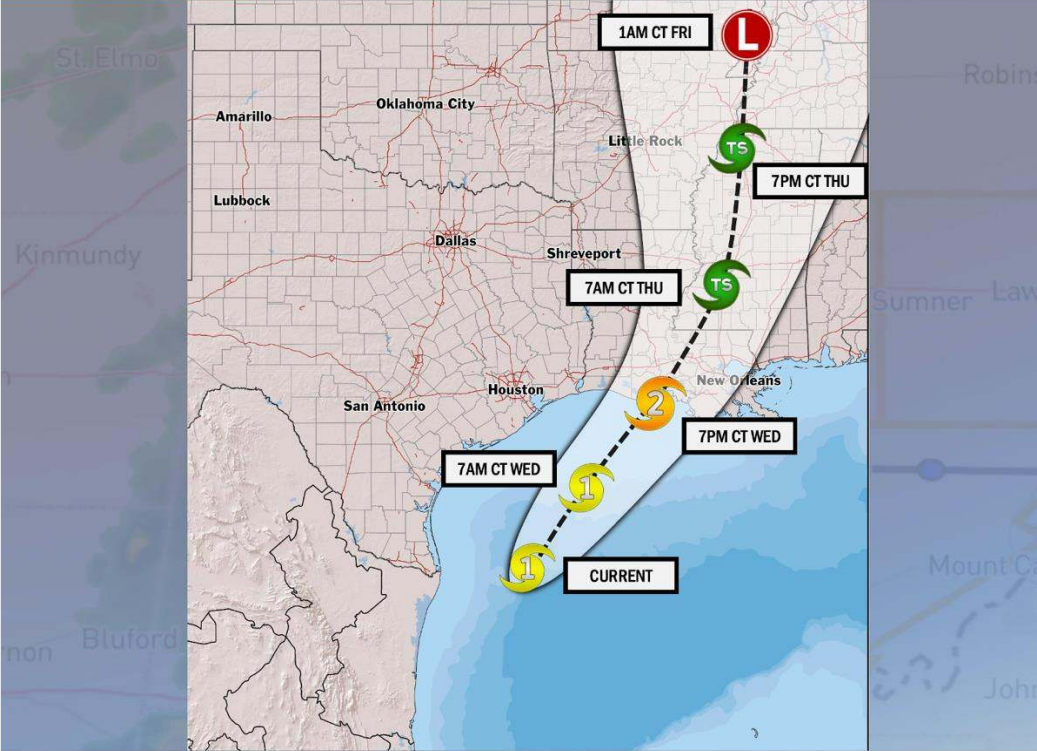




## HURRICANE FRANCINE

**DAILY INSIGHT** 7:00 PM CT Tuesday, September 10, 2024 **Forecaster: Kipper**



**TIMING: NOW – FRIDAY AM**

### FORECAST NOTES:

- ✓ Francine is now a Cat 1 Hurricane as of 7 PM CT TUE
- ✓ 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 near Vermillion Bay, LA

# Houston Pilots Forecast Package



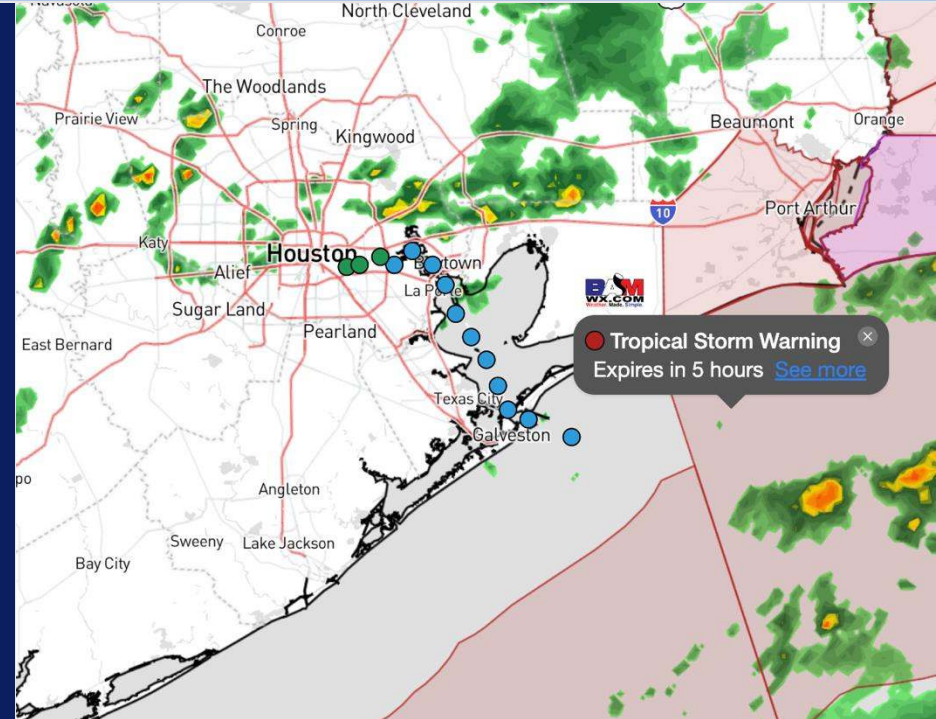
Updated: 7:30 PM CT

Wednesday, September 11, 2024

Forecaster: Jonathan Kipper

## Weather Headlines

- **Zulu Port Conditions are in effect (see Trigger Slide below)**
- Anticipating wave heights to surpass 6 feet WED AM due to Hurricane Francine. See wave height slide for more info.
- Winds gusts of 30-40 kts are possible WED for stations S. of Morgan's Point
- **Hurricane Video Update (as of TUE PM)**



Current Radar: 7:30 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

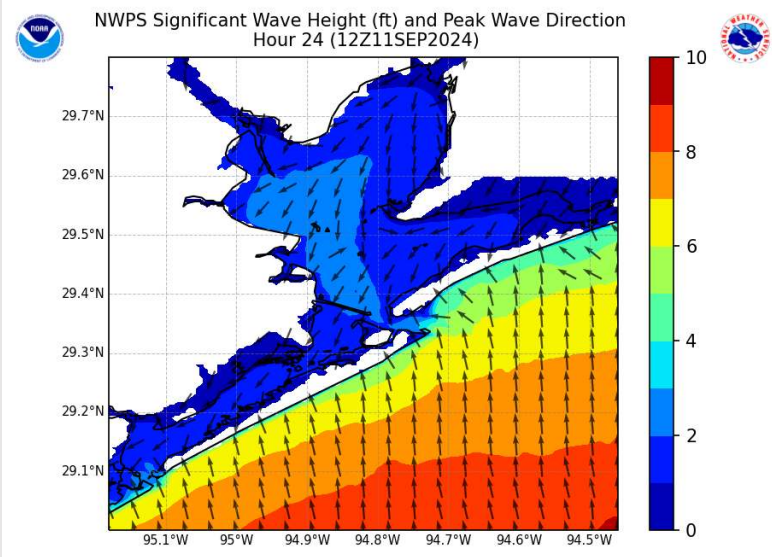


Port Condition	34 KTS+ Sustained Wind Trigger Reached at:	6 Foot Wave Trigger Reached at:	Time Remaining/Trigger Ends At:
Victor	---	---	---
Whiskey	Past This Trigger	---	Ended
X-Ray	Past This Trigger	Past This Trigger	Ended
Yankee	Past This Trigger	Past This Trigger	Past This Trigger
Zulu	CURRENT	CURRENT	10 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

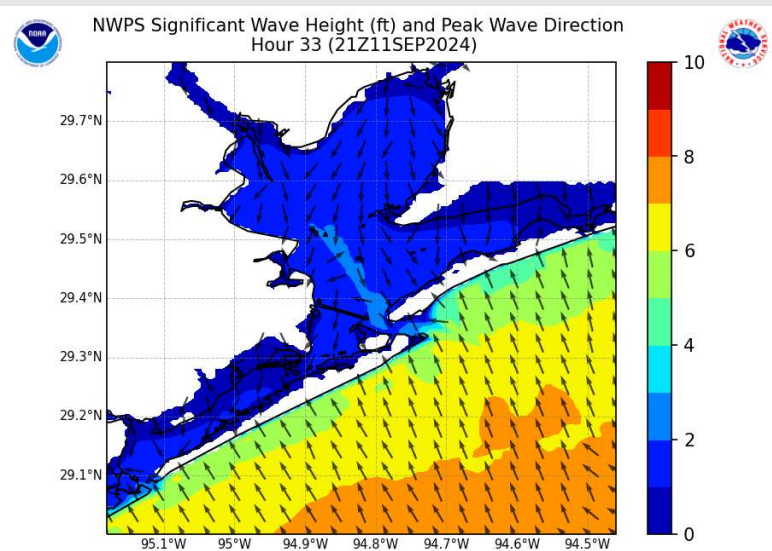
**NOTES:** Hurricane Francine has been upgraded to a Category 1 Hurricane east of the Texas/Mexico Border. Currently favoring direct landfall along Louisiana's Gulf Coast, however still expecting winds of 34+ kts and wave heights of 6+ ft for Houston / Galveston Bay on WED (tomorrow).

# Wave Height Forecast Update



7 AM CT WED

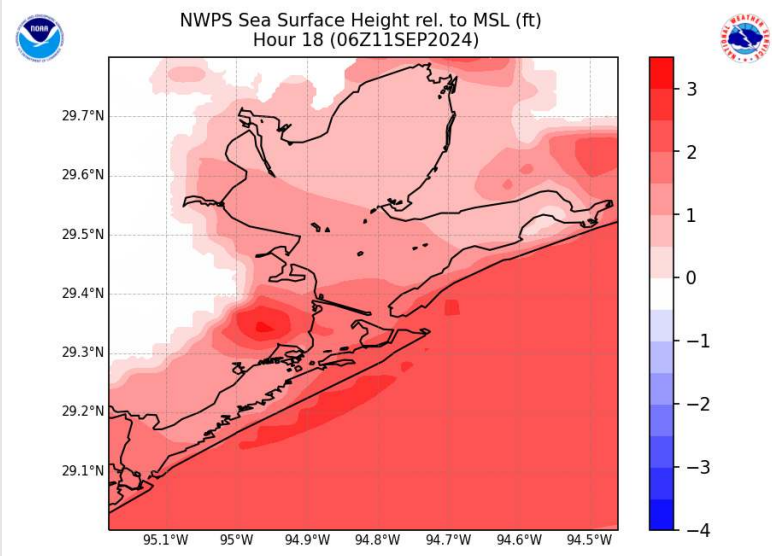
Monitoring for wave heights to increase WED as Hurricane Francine works northward. Expected to be at/above 6 ft ~7 AM CT WED.



4 PM CT WED

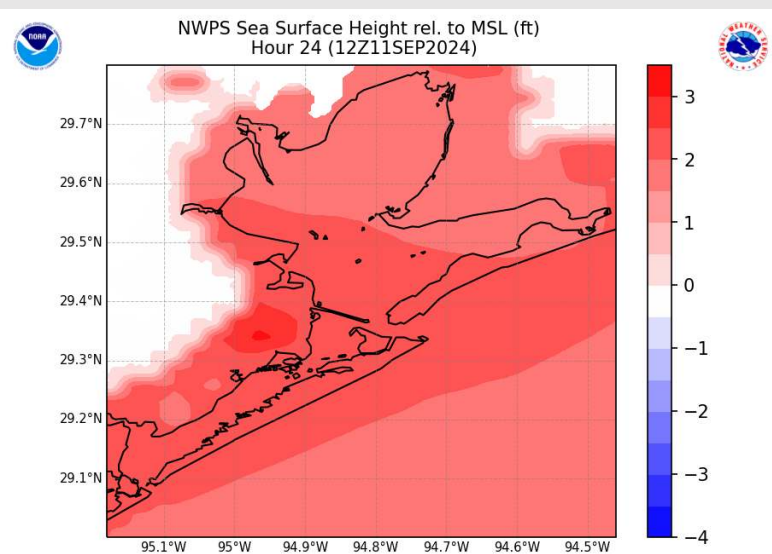
Heights of 6-8 ft will be possible for Stations 11/12 and the Boarding Station by 10 AM CT WED and remain there through 10 PM CT WED.

# Tide + Surge Forecast Update



**1 AM 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 between 10 PM TUE – 4 PM WED.



**7 AM CT WED**

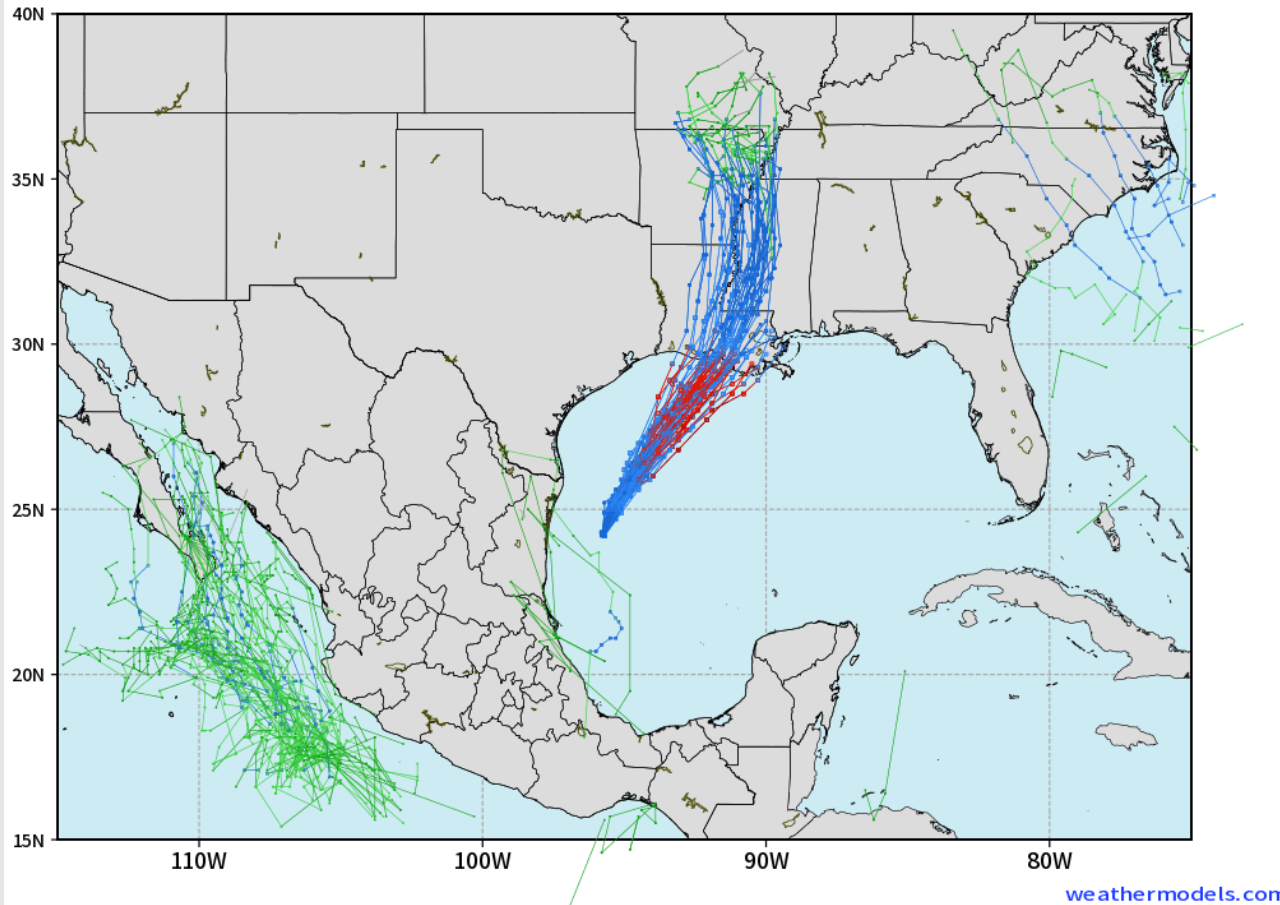
THU evening, sea surface height may be 1 – 2 ft below the mean as Hurricane Francine moves further inland.

# Houston Pilots Tropical Update

## European Model Next 10 Days - Tropical Tracks

ECMWF GULF EPS Cyclone Locations --> Next [10-days]  
INIT: 12Z10SEP2024 --> UNTIL 12Z20SEP2024

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



**Monitoring Hurricane Francine for impacts WED as it makes landfall in LA.**

**Currently favoring this storm to track east of Houston, though increased wave heights, high wind gusts, and heavy rain will still be likely.**

# Houston Pilots Visibility Chart (miles)



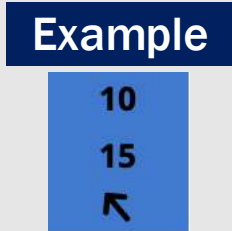
## Forecast Confidence



Visibility	Tue 8 pm	Tue 9 pm	Tue 10 pm	Tue 11 pm	Wed 12 am	Wed 1 am	Wed 2 am	Wed 3 am	Wed 4 am	Wed 5 am	Wed 6 am	Wed 7 am	Wed 8 am	Wed 9 am	Wed 10 am	Wed 11 am	Wed 12 pm	Wed 1 pm	Wed 2 pm	Wed 3 pm	Wed 4 pm	Wed 5 pm	Wed 6 pm	Wed 7 pm
Houston Pilots N - 610 Bridge	6.9	7.9	7.9	7.9	9	9	9	10	10	10	10	10	7.9	5.9	4.9	3.9	4.9	5.9	6.9	6.9	7.9	9	9	10
Houston Pilots M - Kinder 1	6.9	7.9	7.9	7.9	9	9	10	10	10	10	10	10	7.9	5.9	4.9	3.9	4.9	5.9	6.9	6.9	7.9	9	9	10
Houston Pilots L - Greens Bayou	6.9	7.9	7.9	7.9	9	10	10	10	10	10	10	10	7.9	5.9	4.9	3.9	4.9	5.9	6.9	6.9	7.9	7.9	7.9	9
Houston Pilots K - Shell Crude	7.9	7.9	7.9	7.9	9	10	10	10	10	10	10	10	7.9	5.9	4.9	3.9	4.9	5.9	6.9	6.9	7.9	7.9	7.9	9
Houston Pilots J - Lynchburg Ferries	7.9	7.9	7.9	7.9	9	10	10	10	10	10	10	10	7.9	5.9	4.9	3.9	4.9	5.9	6.9	6.9	7.9	7.9	7.9	9
Houston Pilots I - Exxon 3	7.9	7.9	7.9	7.9	9	10	10	10	10	10	10	10	7.9	5.9	4.9	2.9	4.9	5.9	5.9	6.9	6.9	6.9	7.9	9
Houston Pilots H - Morgans Point	7.9	7.9	7.9	7.9	9	10	10	10	10	10	10	10	7.9	5.9	4.9	2.9	4.9	4.9	5.9	6.9	6.9	6.9	6.9	9
Houston Pilots G - 75/76	6.9	6.9	6.9	6.9	6.9	6.9	7.9	10	7.9	7.9	10	10	10	6.9	5.9	2.9	3.9	2.9	3.9	4.9	4.9	4.9	6.9	9
Houston Pilots F - 63/64	6.9	6.9	6.9	6.9	6.9	6.9	6.9	10	7.9	7.9	10	10	10	6.9	5.9	3.9	3.9	2.9	3.9	4.9	4.9	4.9	6.9	9
Houston Pilots E - 51/52	5.9	5.9	6.9	6.9	6.9	5.9	6.9	7.9	9	7.9	10	10	10	6.9	5.9	3.9	3.9	2.9	3.9	3.9	4.9	4.9	5.9	9
Houston Pilots D - 37/38	5.9	5.9	6.9	6.9	6.9	5.9	6.9	7.9	9	7.9	10	10	10	6.9	4.9	3.9	3.9	2.9	3.9	3.9	4.9	4.9	5.9	9
Houston Pilots C - 25/26	5.9	5.9	6.9	6.9	6.9	5.9	6.9	9	6.9	7.9	10	10	10	6.9	4.9	3.9	3.9	2.9	3.9	3.9	4.9	4.9	5.9	9
Houston Pilots B - 11/12	5.9	5.9	6.9	6.9	6.9	6.9	5.9	6.9	6.9	7.9	10	10	10	4.9	4.9	2.9	3.9	2.9	3.9	3.9	3.9	4.9	5.9	9
Houston Pilots A - 1 & 2 Bravo	4.9	4.9	5.9	6.9	5.9	6.9	5.9	6.9	6.9	7.9	10	10	10	6.9	6.9	4.9	4.9	3.9	3.9	3.9	3.9	3.9	4.9	7

**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



Wind	Tue 8 pm	Tue 9 pm	Tue 10 pm	Tue 11 pm	Wed 12 am	Wed 1 am	Wed 2 am	Wed 3 am	Wed 4 am	Wed 5 am	Wed 6 am	Wed 7 am	Wed 8 am	Wed 9 am	Wed 10 am	Wed 11 am	Wed 12 pm	Wed 1 pm	Wed 2 pm	Wed 3 pm	Wed 4 pm	Wed 5 pm	Wed 6 pm	Wed 7 pm	
Houston Pilots N - 610 Bridge	12 23 ↙	12 24 ↙	12 24 ↙	12 23 ↙	13 23 ↙	12 23 ↙	12 22 ↙	12 22 ↙	12 22 ↙	12 22 ↙	12 22 ↙	13 22 ↙	13 22 ↙	13 23 ↙	13 24 ↙	13 24 ↙	13 24 ↙	13 24 ↙	13 24 ↙	13 25 ↙	13 24 ↙	12 24 ↙	12 23 ↙	12 21 ↙	10 21 ↙
Houston Pilots M - Kinder 1	12 23 ↙	12 24 ↙	12 24 ↙	12 23 ↙	13 23 ↙	12 23 ↙	12 22 ↙	12 22 ↙	12 22 ↙	12 22 ↙	12 22 ↙	13 22 ↙	13 22 ↙	13 23 ↙	13 24 ↙	13 24 ↙	13 24 ↙	13 24 ↙	13 25 ↙	13 25 ↙	13 25 ↙	12 24 ↙	12 23 ↙	12 21 ↙	10 21 ↙
Houston Pilots L - Greens Bayou	12 23 ↙	12 23 ↙	12 24 ↙	12 23 ↙	12 24 ↙	12 23 ↙	10 22 ↙	10 23 ↙	10 23 ↙	12 22 ↙	12 23 ↙	12 23 ↙	12 23 ↙	13 24 ↙	13 24 ↙	13 24 ↙	13 24 ↙	13 24 ↙	13 25 ↙	13 25 ↙	13 24 ↙	13 24 ↙	13 23 ↙	12 23 ↙	10 21 ↙
Houston Pilots K - Shell Crude	12 23 ↙	12 24 ↙	12 24 ↙	12 24 ↙	12 24 ↙	12 24 ↙	10 23 ↙	10 23 ↙	12 24 ↙	12 23 ↙	12 24 ↙	12 24 ↙	13 23 ↙	13 25 ↙	13 24 ↙	13 24 ↙	13 24 ↙	13 24 ↙	13 25 ↙	13 25 ↙	13 25 ↙	13 24 ↙	13 23 ↙	12 23 ↙	10 21 ↙
Houston Pilots J - Lynchburg Ferries	12 23 ↙	12 23 ↙	10 24 ↙	12 24 ↙	12 24 ↙	10 23 ↙	10 22 ↙	10 23 ↙	10 23 ↙	10 23 ↙	10 24 ↙	12 24 ↙	12 23 ↙	13 24 ↙	13 24 ↙	13 24 ↙	13 24 ↙	13 24 ↙	13 25 ↙	13 25 ↙	13 25 ↙	13 24 ↙	13 23 ↙	12 23 ↙	10 21 ↙
Houston Pilots I - Exxon 3	17 24 ↙	17 25 ↙	18 25 ↙	20 26 ↙	20 26 ↙	20 26 ↙	18 25 ↙	20 26 ↙	20 26 ↙	20 26 ↙	20 26 ↙	20 26 ↙	20 26 ↙	20 26 ↙	18 25 ↙	17 25 ↙	17 25 ↙	17 25 ↙	17 26 ↙	17 26 ↙	17 26 ↙	16 25 ↙	15 25 ↙	15 24 ↙	15 22 ↙
Houston Pilots H - Morgans Point	17 24 ↙	17 25 ↙	18 25 ↙	20 26 ↙	20 26 ↙	20 26 ↙	18 25 ↙	20 26 ↙	20 26 ↙	20 26 ↙	20 26 ↙	20 26 ↙	20 26 ↙	18 26 ↙	18 25 ↙	17 25 ↙	17 25 ↙	17 25 ↙	17 26 ↙	17 26 ↙	17 26 ↙	17 25 ↙	15 24 ↙	15 24 ↙	15 22 ↙
Houston Pilots G - 75/76	20 28 ↙	20 29 ↙	21 29 ↙	21 29 ↙	22 29 ↙	21 29 ↙	20 28 ↙	21 28 ↙	21 29 ↙	21 29 ↙	22 30 ↙	22 30 ↙	21 30 ↙	21 30 ↙	21 30 ↙	20 29 ↙	20 30 ↙	20 29 ↙	18 28 ↙	18 29 ↙	18 29 ↙	17 26 ↙	17 26 ↙	17 24 ↙	16 23 ↙
Houston Pilots F - 63/64	20 28 ↙	20 29 ↙	21 29 ↙	21 30 ↙	21 29 ↙	21 29 ↙	20 28 ↙	21 28 ↙	21 29 ↙	21 29 ↙	22 30 ↙	22 30 ↙	21 31 ↙	22 31 ↙	21 31 ↙	20 30 ↙	21 30 ↙	20 29 ↙	18 28 ↙	18 29 ↙	18 29 ↙	18 28 ↙	17 26 ↙	17 25 ↙	16 24 ↙
Houston Pilots E - 51/52	20 29 ↙	21 29 ↙	22 30 ↙	22 31 ↙	22 30 ↙	22 29 ↙	20 28 ↙	22 29 ↙	22 30 ↙	22 30 ↙	22 31 ↙	22 31 ↙	22 31 ↙	22 32 ↙	22 32 ↙	22 32 ↙	22 32 ↙	21 31 ↙	20 29 ↙	20 29 ↙	20 29 ↙	20 29 ↙	17 26 ↙	17 25 ↙	16 24 ↙
Houston Pilots D - 37/38	21 29 ↙	22 29 ↙	22 31 ↙	22 31 ↙	22 30 ↙	22 30 ↙	20 29 ↙	22 30 ↙	22 30 ↙	22 30 ↙	22 31 ↙	22 31 ↙	22 32 ↙	22 32 ↙	22 33 ↙	22 33 ↙	22 33 ↙	21 31 ↙	20 29 ↙	20 29 ↙	20 29 ↙	20 28 ↙	18 26 ↙	17 26 ↙	17 24 ↙
Houston Pilots C - 25/26	20 29 ↙	21 30 ↙	21 31 ↙	21 31 ↙	21 30 ↙	20 30 ↙	20 29 ↙	20 30 ↙	21 31 ↙	21 30 ↙	22 32 ↙	22 32 ↙	22 33 ↙	22 33 ↙	22 35 ↙	22 33 ↙	22 33 ↙	22 32 ↙	20 30 ↙	20 29 ↙	20 29 ↙	20 28 ↙	18 26 ↙	17 25 ↙	16 25 ↙
Houston Pilots B - 11/12	18 29 ↙	18 30 ↙	20 31 ↙	20 31 ↙	18 30 ↙	18 30 ↙	17 29 ↙	18 30 ↙	18 31 ↙	18 30 ↙	20 32 ↙	20 32 ↙	20 32 ↙	21 33 ↙	22 33 ↙	21 33 ↙	21 33 ↙	20 32 ↙	18 30 ↙	18 30 ↙	20 29 ↙	20 28 ↙	17 25 ↙	16 25 ↙	15 24 ↙
Houston Pilots A - 1 & 2 Bravo	22 32 ↙	22 32 ↙	23 35 ↙	23 33 ↙	23 33 ↙	22 33 ↙	22 32 ↙	23 33 ↙	23 35 ↙	23 35 ↙	24 37 ↙	24 37 ↙	24 36 ↙	25 38 ↙	25 38 ↙	24 37 ↙	24 37 ↙	24 36 ↙	23 35 ↙	22 35 ↙	22 35 ↙	22 35 ↙	21 32 ↙	20 31 ↙	18 29 ↙

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



# Houston Pilots: WED. 9/11/2024



## Forecast Discussion

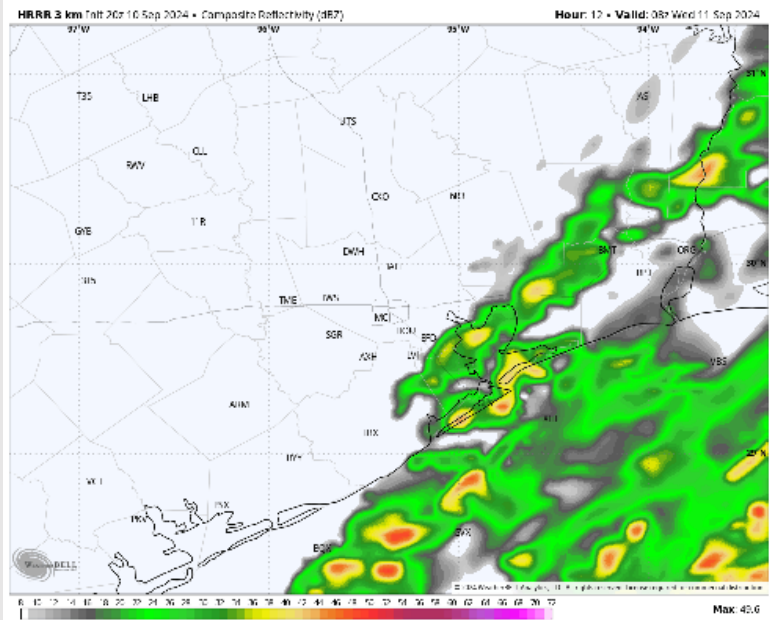
**Precip:** Widespread rainfall expected for stations S of Morgan's Point through 6 AM, becoming more scattered in nature thereafter. Scattered showers/storms will continue through 10 PM for all stations before clearing out for the rest of the night.

**Wind:** Winds will be out of the E/NE through 4 PM before shifting to out of the North. **N of Morgan's Point:** Winds will be at 8-13 kts throughout the day. **S of Morgan's Point:** Sustained winds will be 20-25 kts through 1 PM before decreasing to 10-15 kts the rest of the day. **S. of 51/52:** Sustained winds elevated to 25-30 kts, with gusts 30-40 kts, are possible from 3 AM - 2 PM before decreasing to 13-18 kts for the remainder of the day.

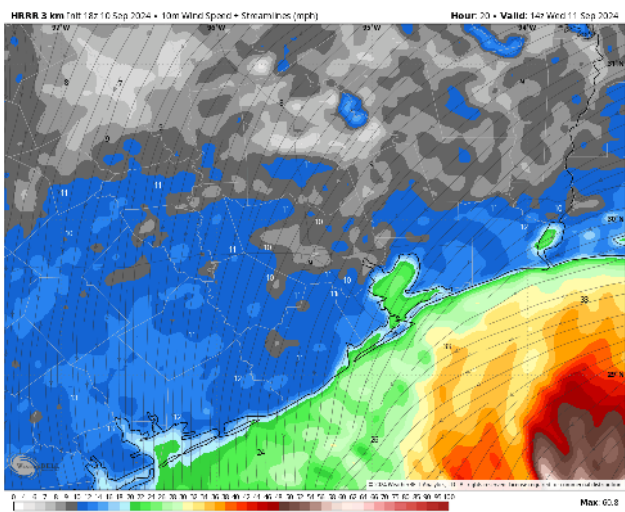
**High Temps:** N of Morgan's Point: Mid 80s F. S of Morgan's Point: Low 80s F.

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

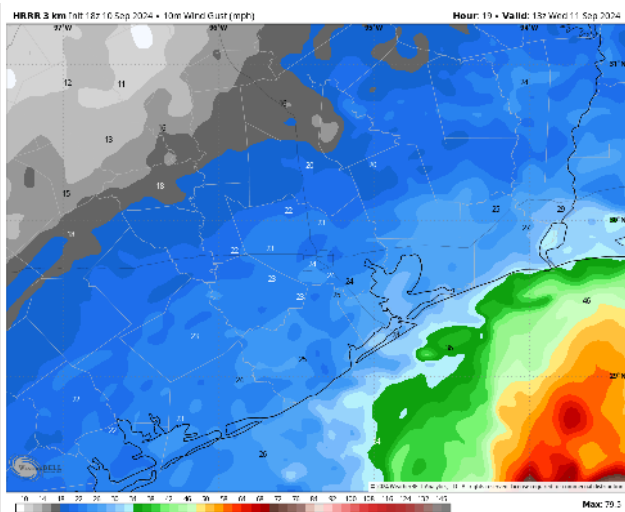
## Precip Image: 3 AM CT



Wind Speed:  
9 AM CT



Wind Gusts:  
8 AM CT



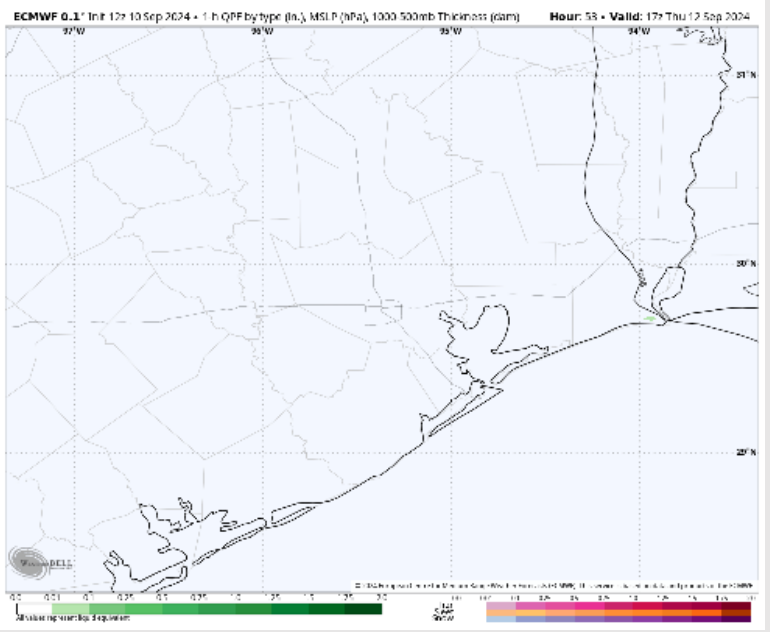
# Houston Pilots: THU. 9/12/2024



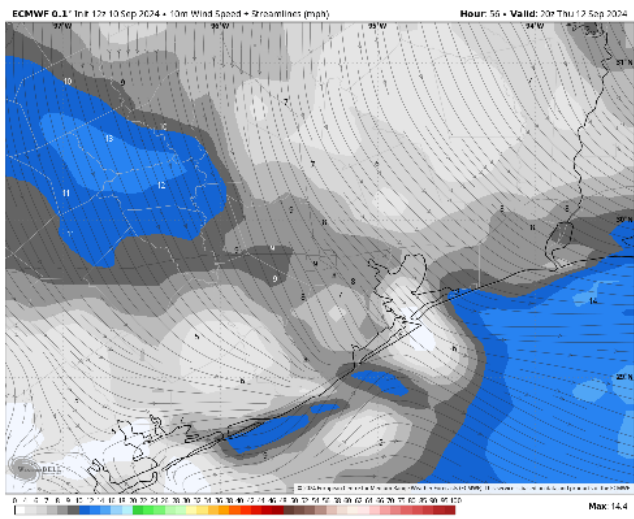
## Forecast Discussion

- Precip:** Favoring dry conditions for 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 3-8 kts throughout the day. **S of Morgan's Point:** Winds will be sustained at 10-15 kts throughout 12 PM before decreasing to 7-12 kts.
- High Temps:** **N of Morgan's Point:** Low 90s F. **S of Morgan's Point:** Mid 80s F
- Visibility:** Not anticipating any fog concerns for THU.

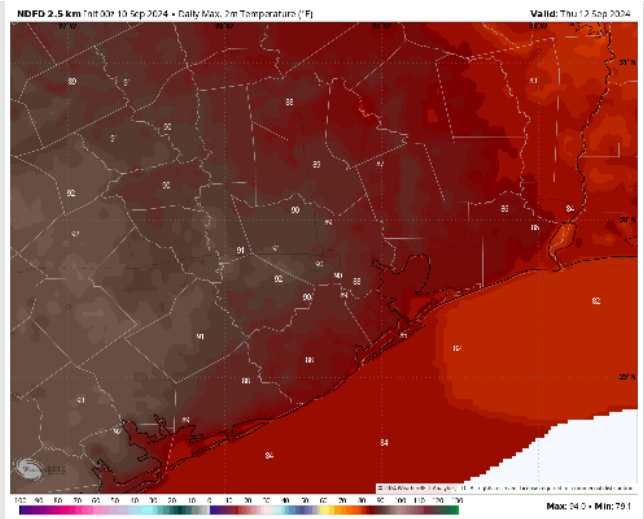
## Precip Image: 1 PM CT



Wind Speed:  
3 PM CT



High Temps  
Thursday



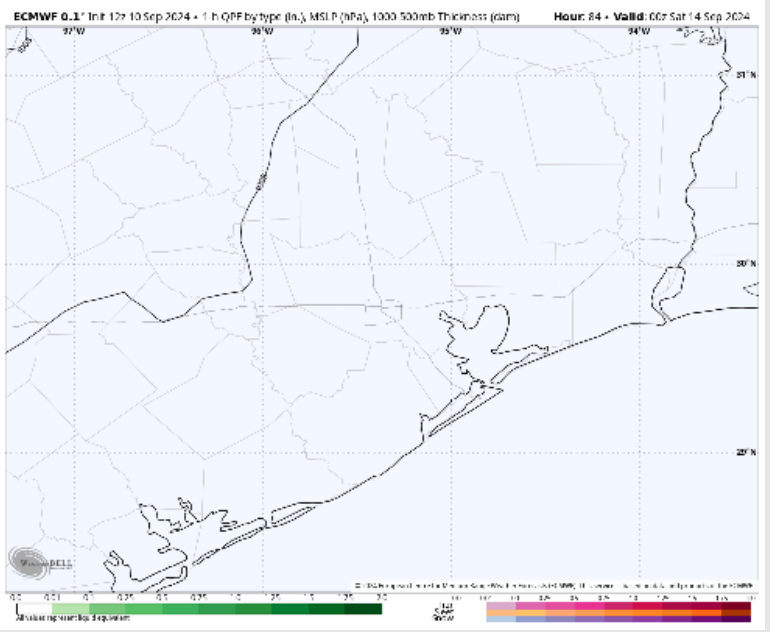
# Houston Pilots: FRI. 9/13/2024



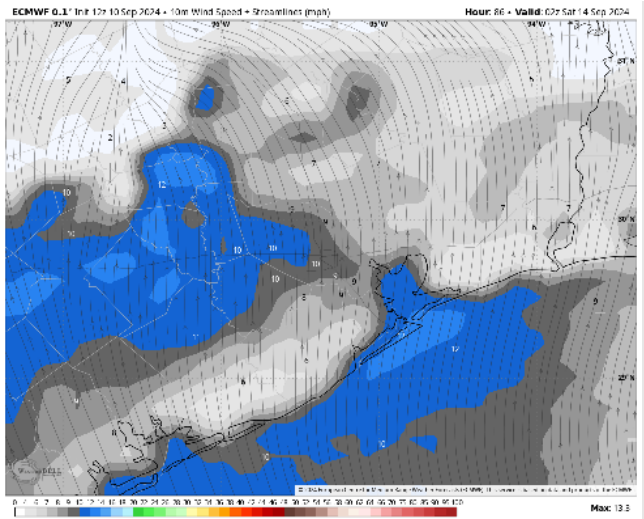
## Forecast Discussion

- Precip:** Favoring dry conditions for Friday.
- Wind:** Winds will begin the day variable before shifting to out of the S/SW after 2 PM and for the rest of Friday. **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 80s F.
- Visibility:** Not favoring any fog concerns for Friday.

## Precip Image: 7 PM CT

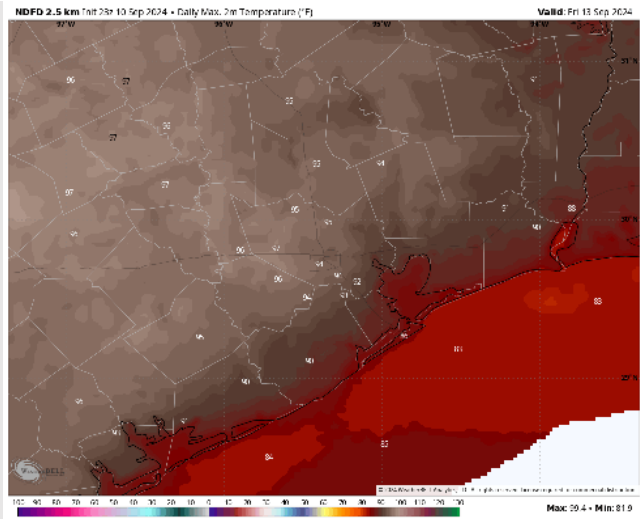


## Wind Speed 9 PM CT



Wind Speed  
9 PM CT

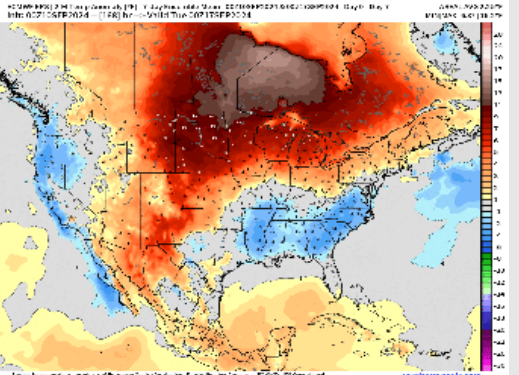
## High Temps Friday



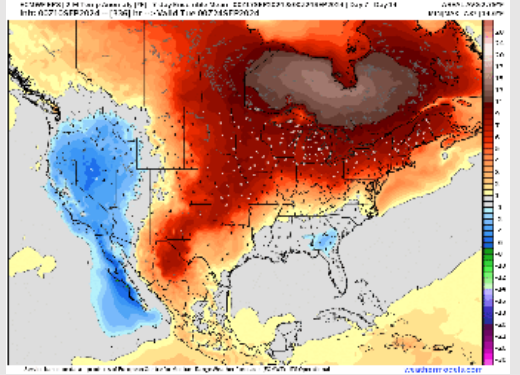
High Temps  
Friday

# Houston Pilots: 9/11/2024

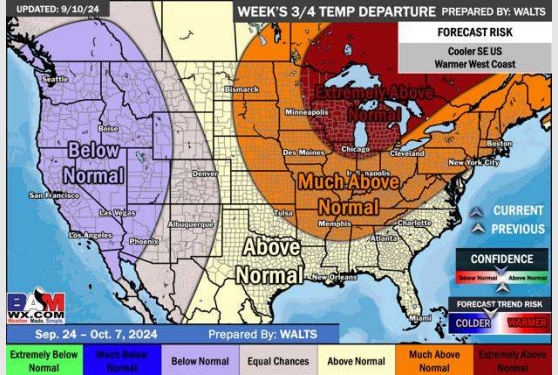
**Next 7 Day Temperature Departure**



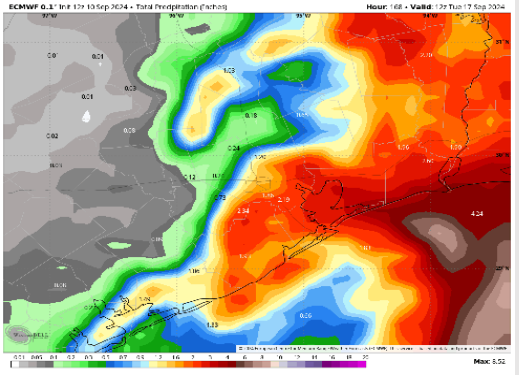
**8-14 Day Temperature Departure**



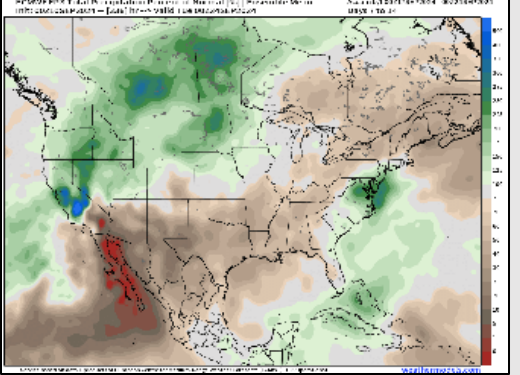
**15-30 Day Temperature Departure**



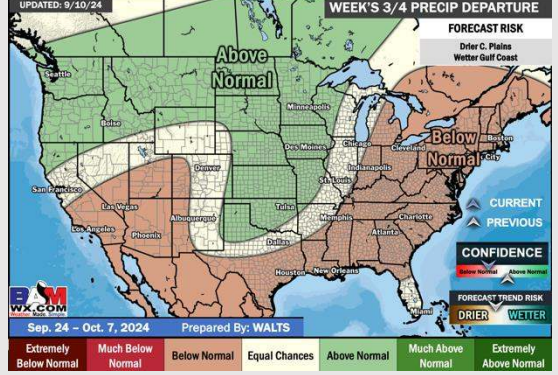
**Next 7 Day Total Precipitation**



**8-14 Day % of Average Precip.**



**15-30 Day % of Average Precip.**



- Temps are expected to be near normal for the week 1 timeframe. Tropical Storm Francine is expected to bring widespread rain showers/storms for all Stations.
- 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.