

Houston Pilots Tropical Update

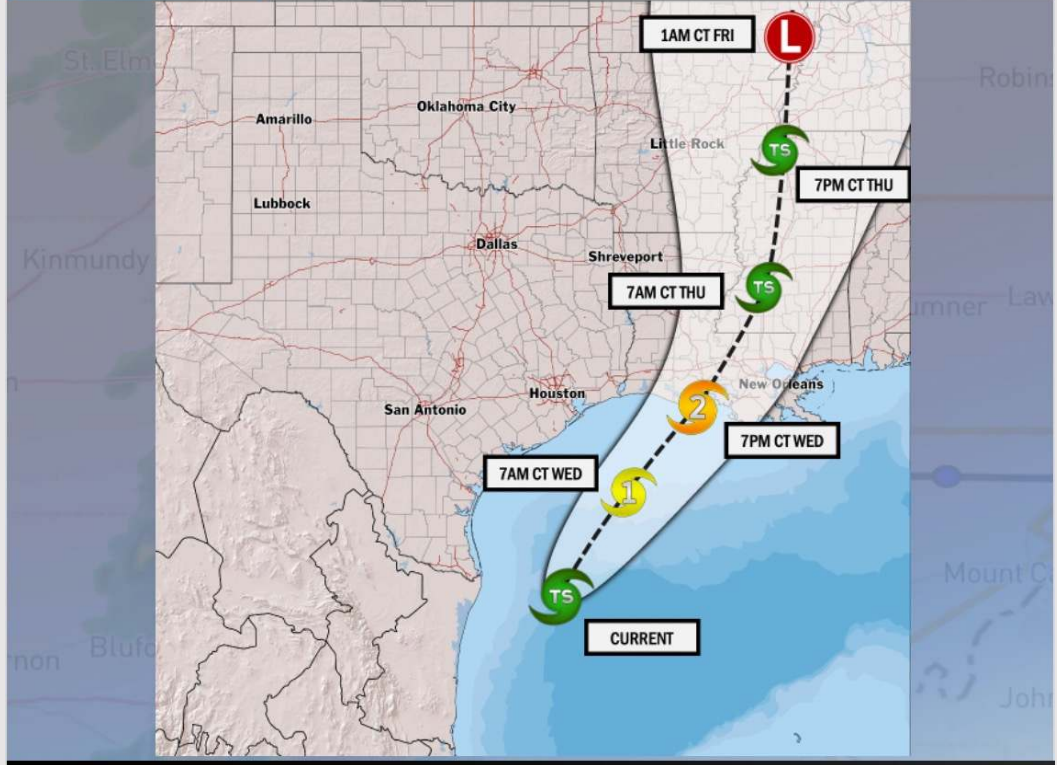


TROPICAL STORM FRANCINE

DAILY INSIGHT

1:00 PM CT Tuesday, September 10, 2024

Forecaster: Elliott



TIMING: NOW – FRIDAY AM

FORECAST NOTES:

- ✓ Latest model runs continue to indicate potential rapid intensification prior to landfall. Recent history would indicate these situations can be under-modeled with wind speed. We continue to see landfall as a category 2 (96-110 MPH)
- ✓ Landfall: Wednesday PM near the Vermilion Bay, LA



Houston Pilots Port Trigger Update

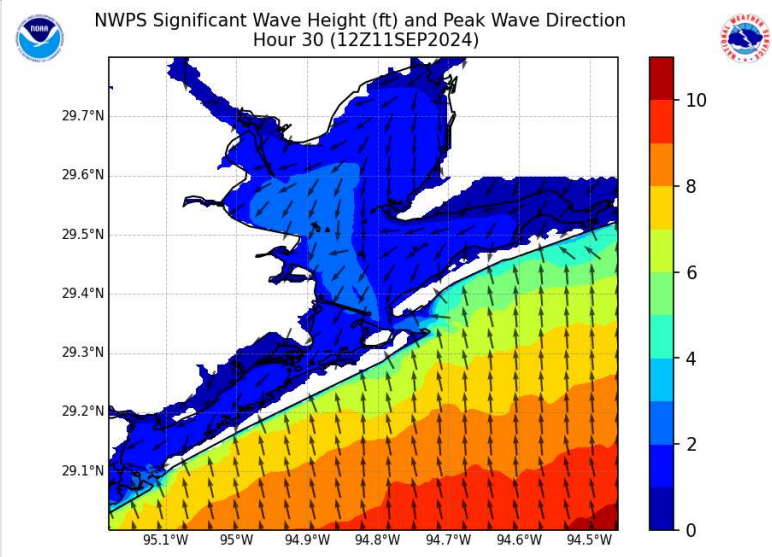


Port Condition	34 KTS+ Sustained Wind Trigger Reached at:	6 Foot Wave Trigger Reached at:	Time Remaining/Trigger Ends At:
Victor	—	—	—
Whiskey	Past This Trigger	—	Ended
X-Ray	Past This Trigger	Past This Trigger	Ended
Yankee	CURRENT	CURRENT	7 PM CT TUE
Zulu	7 PM CT TUE	7 PM CT TUE	12 AM CT THU

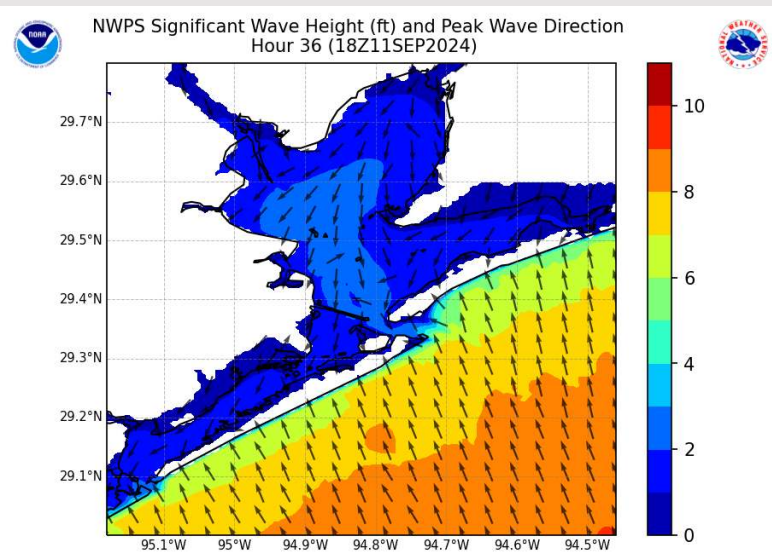
Port Condition	Trigger Definition	Trigger Reached?
Victor	Hurricane entering/developing in Gulf of Mexico that's a threat to the area	Past
Whiskey	72 hours prior to predicted sustained winds of 34+ KTS	Past
X-Ray	48 hours prior to predicted sustained winds of 34+ KTS or 6' wave height	Past
Yankee	24 hours prior to predicted sustained winds of 34+ KTS or 6' wave height	YES
Zulu	12 hours prior to predicted sustained winds of 34+ KTS or 6' wave height	No

NOTES: Tropical Storm Francine has been designated W of the Yucatan Peninsula. 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

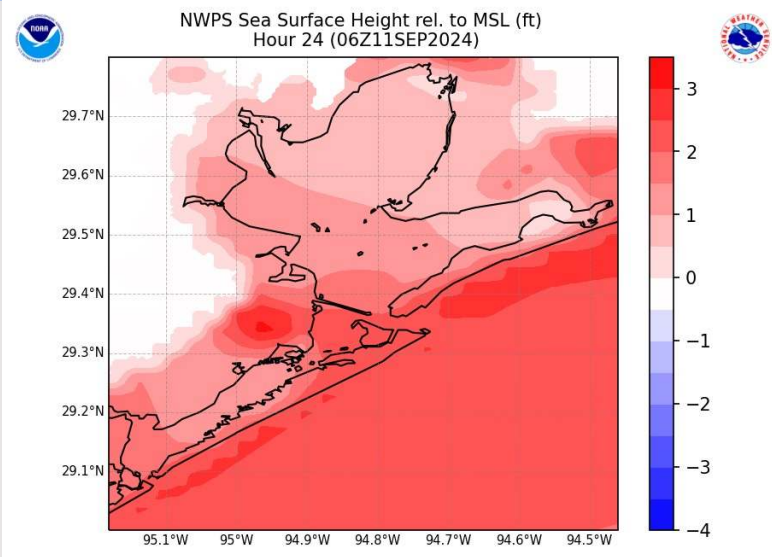


1 PM CT WED

Monitoring for wave heights to increase WED as Tropical Storm Francine works into the area. Expected to be at/above 6 ft ~7 AM CT WED.

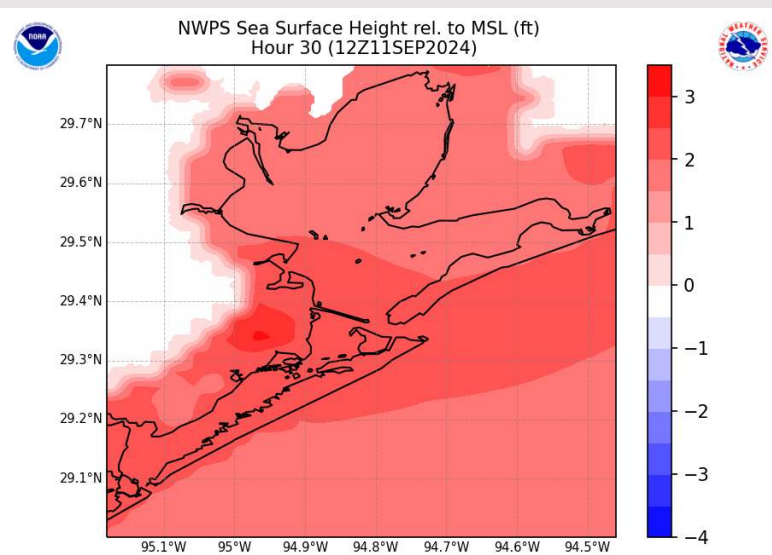
Heights of 6-8 ft will be possible for Stations 11/12 and the Boarding Station by 10 AM CT WED and remain there through 12 AM CT THU.

Tide + Surge Forecast Update



1 AM CT WED

Keeping an eye on increased tide and storm surge heights as Tropical Storm 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

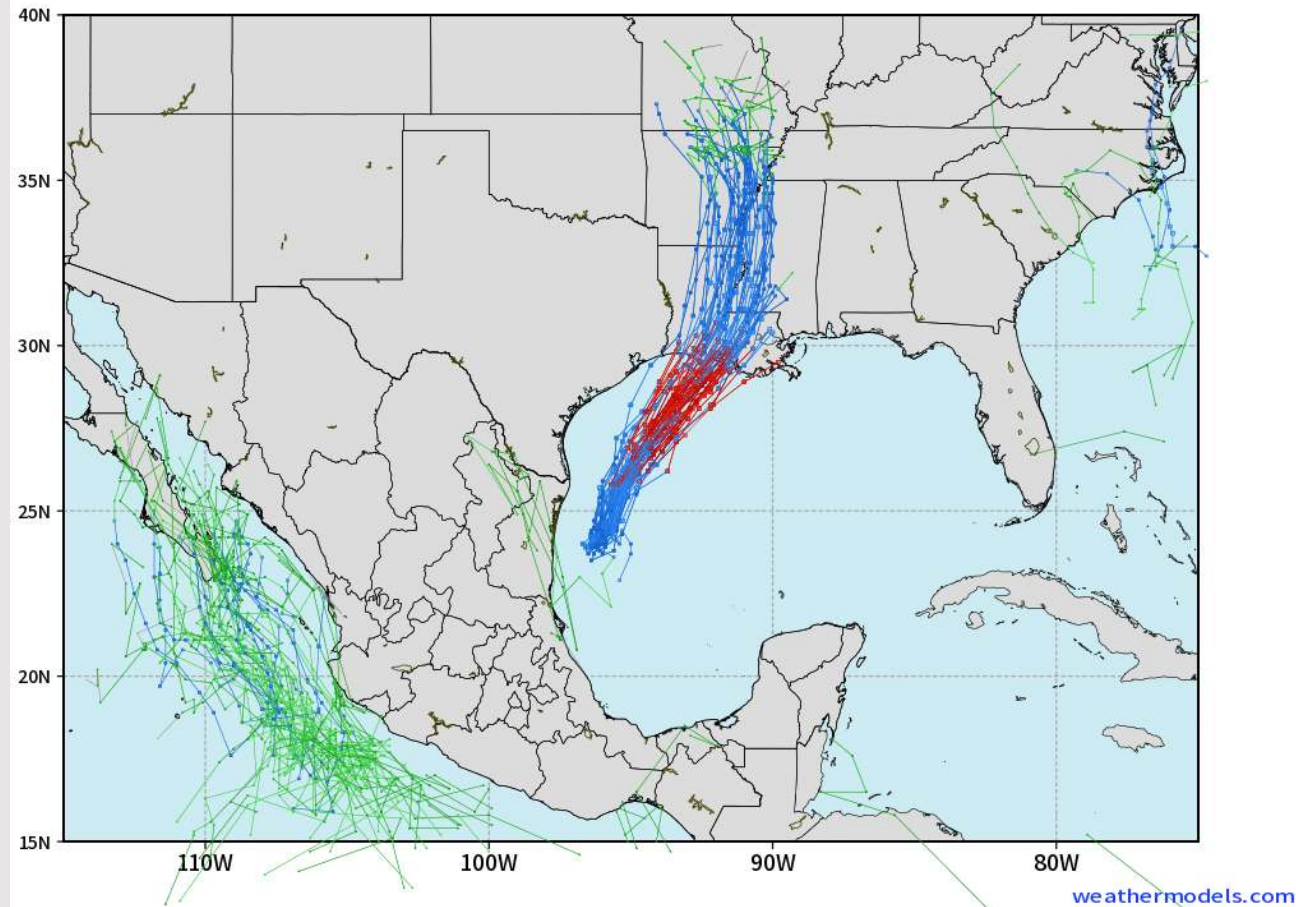
THU evening, sea surface height may be 1 – 2 ft below the mean as the Tropical Storm moves closer to the LA shore.

Houston Pilots Tropical Update

European Model Next 10 Days - Tropical Tracks

ECMWF GULF EPS Cyclone Locations --> Next [10-days]
INIT: 00Z10SEP2024 --> UNTIL 00Z20SEP2024

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 Tropical Storm Francine for impacts this WED (located near the Yucatan now).

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)



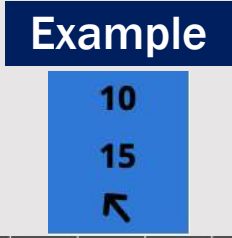
Forecast Confidence



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

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 3 pm	Tue 4 pm	Tue 5 pm	Tue 6 pm	Tue 7 pm	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
Houston Pilots N - 610 Bridge	12 24 ←	13 25 ←	13 25 ←	13 25 ←	13 24 ←	12 23 ←	12 23 ←	12 23 ←	12 22 ←	12 23 ←	12 22 ←	12 22 ←	12 22 ←	12 22 ←	12 22 ←	13 23 ←	13 23 ←	13 22 ←	13 23 ←	13 24 ←	13 24 ←	13 25 ←	13 25 ←	13 24 ←
Houston Pilots M - Kinder 1	13 25 ←	13 25 ←	13 25 ←	13 25 ←	13 24 ←	12 23 ←	12 23 ←	12 24 ←	12 23 ←	12 23 ←	12 22 ←	12 22 ←	12 23 ←	12 22 ←	12 23 ←	13 23 ←	13 23 ←	13 23 ←	13 24 ←	13 24 ←	13 24 ←	13 24 ←	13 25 ←	13 25 ←
Houston Pilots L - Greens Bayou	12 24 ←	13 25 ←	13 25 ←	13 25 ←	13 24 ←	10 22 ←	10 23 ←	10 23 ←	10 22 ←	12 23 ←	10 23 ←	10 22 ←	10 23 ←	12 23 ←	12 23 ←	12 23 ←	13 24 ←	13 23 ←	13 24 ←	13 24 ←	13 24 ←	13 24 ←	13 25 ←	13 25 ←
Houston Pilots K - Shell Crude	12 24 ←	13 25 ←	13 25 ←	13 24 ←	12 23 ←	12 22 ←	12 23 ←	12 24 ←	12 23 ←	12 23 ←	10 23 ←	10 23 ←	10 23 ←	12 24 ←	12 24 ←	12 24 ←	13 24 ←	13 24 ←	13 25 ←	13 25 ←	13 25 ←	13 25 ←	13 25 ←	13 25 ←
Houston Pilots J - Lynchburg Ferries	13 24 ←	13 25 ←	12 24 ←	13 24 ←	13 23 ←	10 22 ←	10 22 ←	10 23 ←	10 23 ←	10 23 ←	10 23 ←	10 22 ←	10 23 ←	10 24 ←	10 23 ←	12 24 ←	12 25 ←	13 24 ←	13 25 ←	13 25 ←	13 24 ←	13 24 ←	13 25 ←	13 25 ←
Houston Pilots I - Exxon 3	15 24 ←	16 25 ←	15 25 ←	16 25 ←	16 24 ←	16 23 ←	17 24 ←	17 24 ←	18 25 ←	18 25 ←	18 25 ←	18 26 ←	20 26 ←	20 26 ←	20 26 ←	20 28 ←	20 28 ←	20 26 ←	20 26 ←	20 26 ←	18 25 ←	18 25 ←	17 25 ←	17 26 ←
Houston Pilots H - Morgans Point	16 25 ←	16 25 ←	15 25 ←	16 25 ←	16 24 ←	16 24 ←	17 24 ←	17 25 ←	18 25 ←	20 26 ←	20 26 ←	18 25 ←	20 26 ←	20 26 ←	20 26 ←	20 28 ←	20 28 ←	20 26 ←	20 28 ←	20 26 ←	18 26 ←	18 26 ←	17 26 ←	17 26 ←
Houston Pilots G - 75/76	17 26 ←	17 26 ←	17 26 ←	17 26 ←	18 26 ←	18 26 ←	20 28 ←	20 28 ←	20 29 ←	21 29 ←	21 28 ←	20 28 ←	21 29 ←	22 29 ←	22 29 ←	22 31 ←	22 31 ←	22 31 ←	22 31 ←	22 31 ←	22 31 ←	21 30 ←	20 30 ←	20 29 ←
Houston Pilots F - 63/64	17 26 ←	17 26 ←	17 26 ←	18 28 ←	18 28 ←	18 26 ←	20 28 ←	20 28 ←	20 29 ←	21 29 ←	21 29 ←	20 28 ←	21 29 ←	22 30 ←	22 30 ←	22 31 ←	22 31 ←	22 31 ←	22 31 ←	22 32 ←	22 31 ←	21 31 ←	21 31 ←	20 30 ←
Houston Pilots E - 51/52	17 28 ←	18 28 ←	18 28 ←	20 29 ←	20 28 ←	20 28 ←	20 29 ←	21 29 ←	21 30 ←	22 29 ←	22 29 ←	21 28 ←	22 29 ←	22 30 ←	22 30 ←	23 32 ←	23 32 ←	22 32 ←	23 32 ←	23 32 ←	23 33 ←	22 33 ←	22 33 ←	21 32 ←
Houston Pilots D - 37/38	18 28 ←	20 28 ←	18 29 ←	20 29 ←	20 29 ←	20 29 ←	21 29 ←	21 30 ←	21 30 ←	22 30 ←	22 30 ←	21 29 ←	22 30 ←	22 31 ←	22 31 ←	23 32 ←	23 32 ←	22 32 ←	23 33 ←	23 33 ←	23 33 ←	22 35 ←	22 35 ←	22 32 ←
Houston Pilots C - 25/26	18 28 ←	20 28 ←	20 29 ←	20 29 ←	20 29 ←	20 29 ←	20 30 ←	21 31 ←	21 31 ←	21 30 ←	20 30 ←	20 29 ←	21 30 ←	22 31 ←	22 31 ←	22 33 ←	22 33 ←	22 33 ←	22 35 ←	23 35 ←	23 35 ←	22 35 ←	22 35 ←	22 33 ←
Houston Pilots B - 11/12	17 28 ←	18 28 ←	18 28 ←	17 28 ←	17 29 ←	17 29 ←	18 30 ←	18 30 ←	18 30 ←	18 30 ←	18 30 ←	17 29 ←	18 31 ←	20 32 ←	20 32 ←	21 33 ←	21 33 ←	21 35 ←	21 35 ←	22 35 ←	22 35 ←	22 35 ←	22 35 ←	21 33 ←
Houston Pilots A - 1 & 2 Bravo	20 30 ←	20 30 ←	20 31 ←	21 31 ←	21 32 ←	21 31 ←	22 32 ←	22 33 ←	22 32 ←	23 33 ←	22 33 ←	22 32 ←	23 35 ←	24 36 ←	24 36 ←	24 36 ←	25 39 ←	25 39 ←	25 39 ←	26 39 ←	26 39 ←	25 38 ←	25 38 ←	24 38 ←

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Houston Pilots: TUE. 9/10/2024



Forecast Discussion

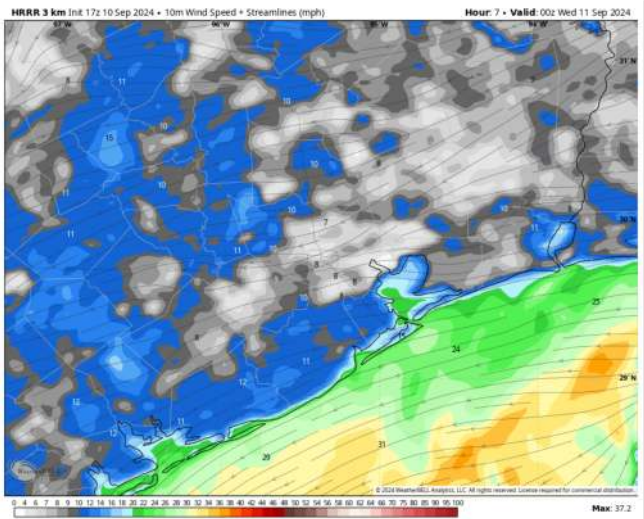
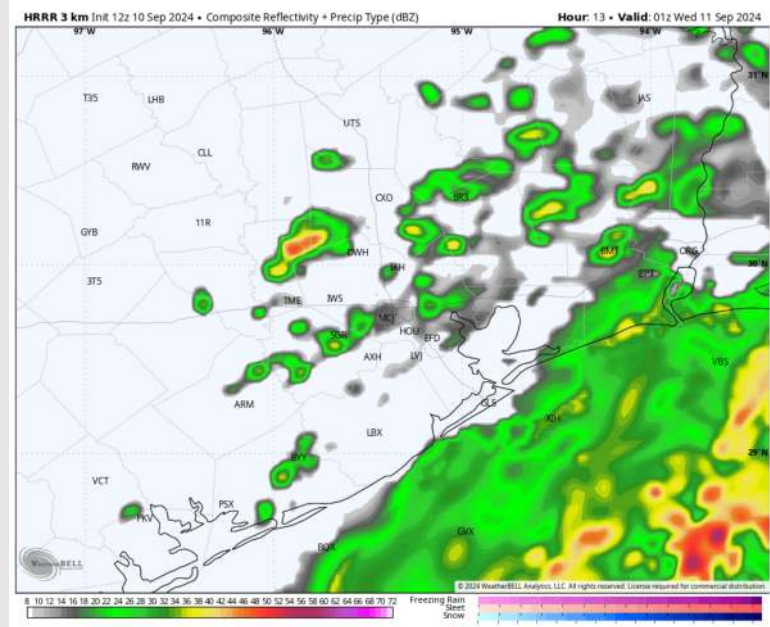
Precip: Favoring scattered showers and storms to continue throughout the afternoon. Anticipating coverage becoming more widespread after 5 PM, primarily for stations S of 51/52.

Wind: Winds will be out of the E/NE for the rest of the day. **N of Morgan's Point:** Winds at 8 – 13 kts throughout the PM. **S of Morgan's Point:** Winds will be sustained at 15 – 20 kts throughout the day, increasing near the Boarding Station to 22-27 kts after 5 PM. **Gusts of 25 – 30 kts are in play throughout the PM for Stations S of Morgan's Point.**

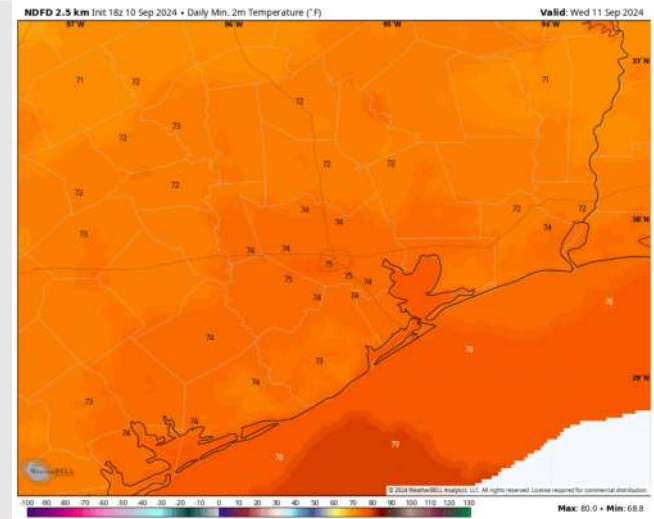
Low Temps: **N of Morgan's Point:** Mid 70s F. **S of Morgan's Point:** Upper 70s F.

Visibility: Not favoring any fog concerns for this PM, however visibilities can be reduced under heavy downpours.

Precip Image: 8 PM CT



Wind Speed
7 PM CT



Low Temps
Wed AM

Houston Pilots: WED. 9/11/2024



Forecast Discussion

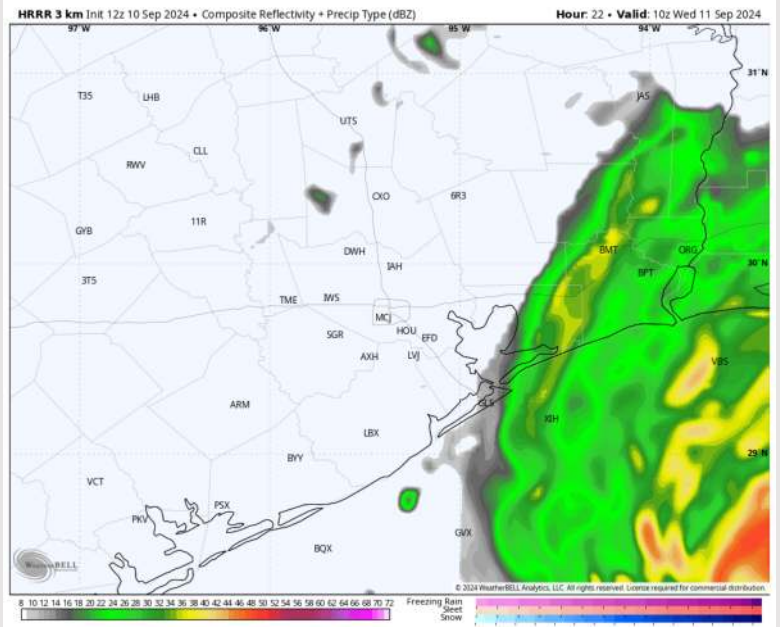
Precip: Widespread rainfall expected for stations S of Morgan's Point through 6 AM, becoming more scattered in nature thereafter. Scattered showers/storms will continue through 10 PM before clearing out for the rest of the night.

Wind: Winds will be out of the E/NE throughout the AM hours before becoming out of the North after 12 PM. **N of Morgan's Point:** Winds will be at 10-15 kts throughout the day. **S of Morgan's Point:** Sustained winds will be 20-25 kts throughout the day. **S. of 51/52:** Sustained winds elevated to 25-30 kts, with gusts 30-40 kts, are possible from 7 AM - 4 PM before decreasing to 20-25 kts for the remainder of the day.

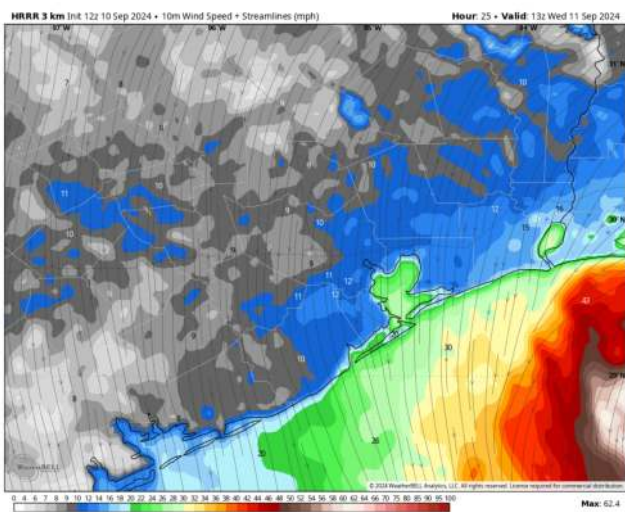
High Temps: **N of Morgan's Point:** Lower 80s F. **S of Morgan's Point:** Lower 80s F.

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

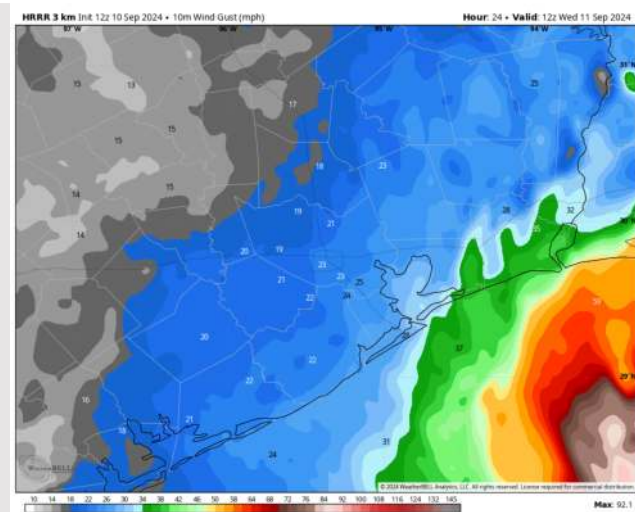
Precip Image: 5 AM CT



Wind Speed:
8 AM CT



Wind Gusts:
7 AM CT



Houston Pilots: THU. 9/12/2024



Forecast Discussion

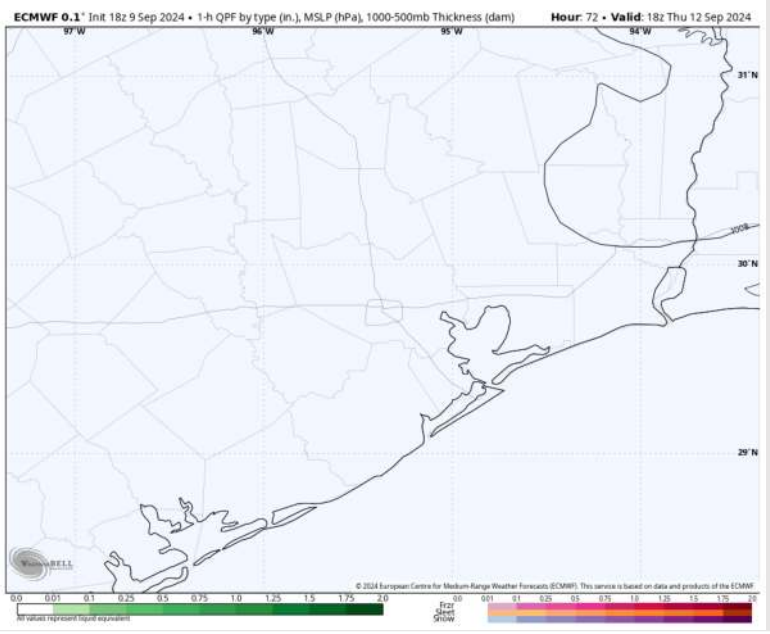
Precip: Favoring dry conditions for Thursday.

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.

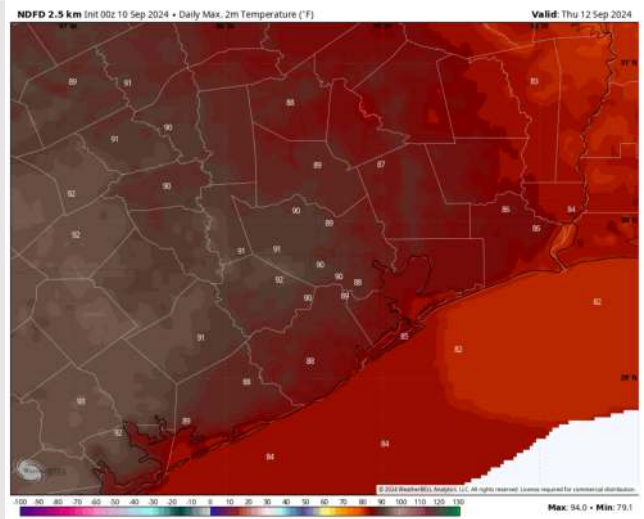
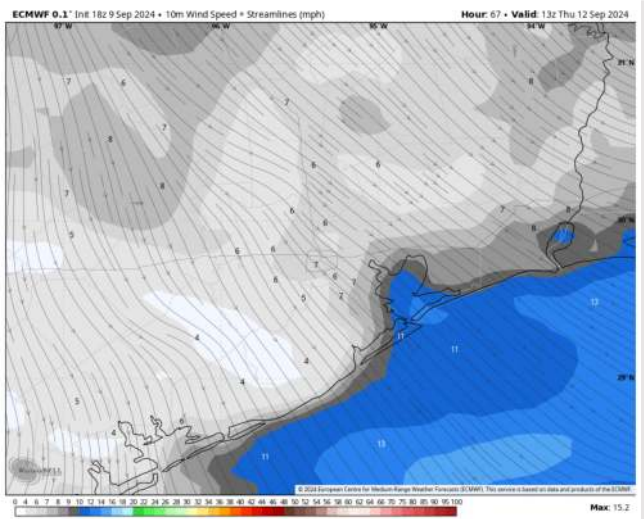
High Temps: **N of Morgan's Point:** Near 90 F. **S of Morgan's Point:** Mid 80s F

Visibility: Not anticipating any fog concerns for THU.

Precip Image: 1 PM CT



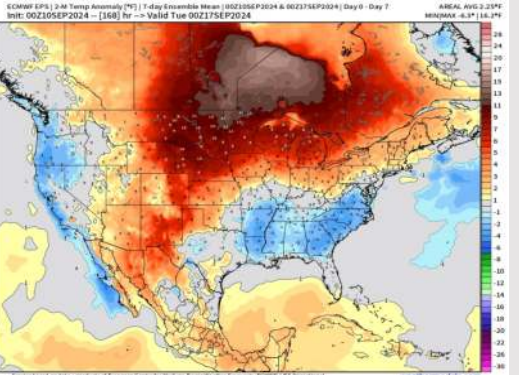
Wind Speed: 8 AM CT



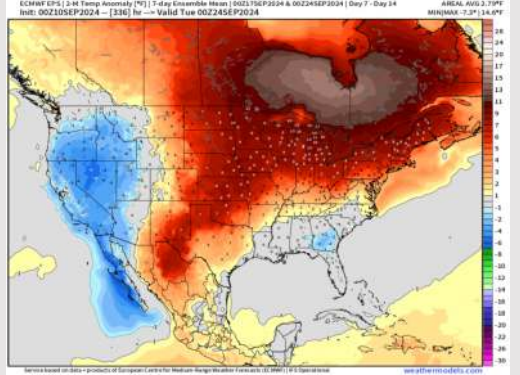
High Temps Thursday

Houston Pilots: 9/10/24

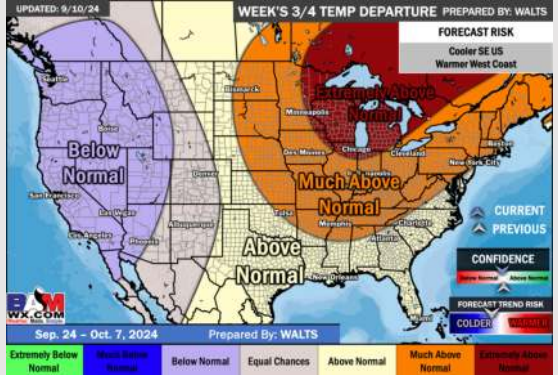
Next 7 Day Temperature Departure



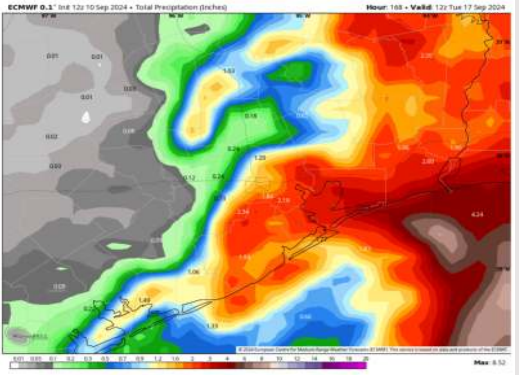
8-14 Day Temperature Departure



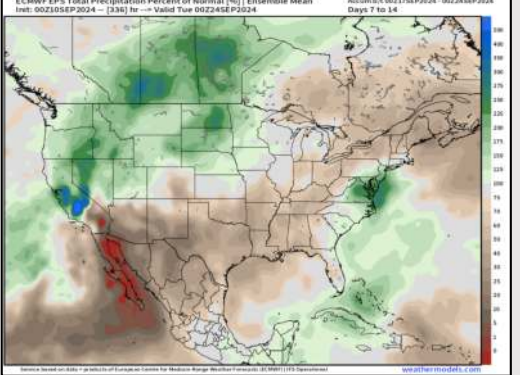
15-30 Day Temperature Departure



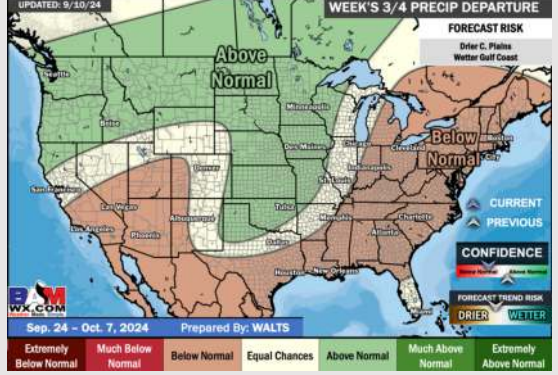
Next 7 Day Total Precipitation



8-14 Day % of Average Precip.



15-30 Day % of Average Precip.



- Temps are expected to be near normal for the week 1 timeframe. 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.