

# Houston Pilots Forecast Package

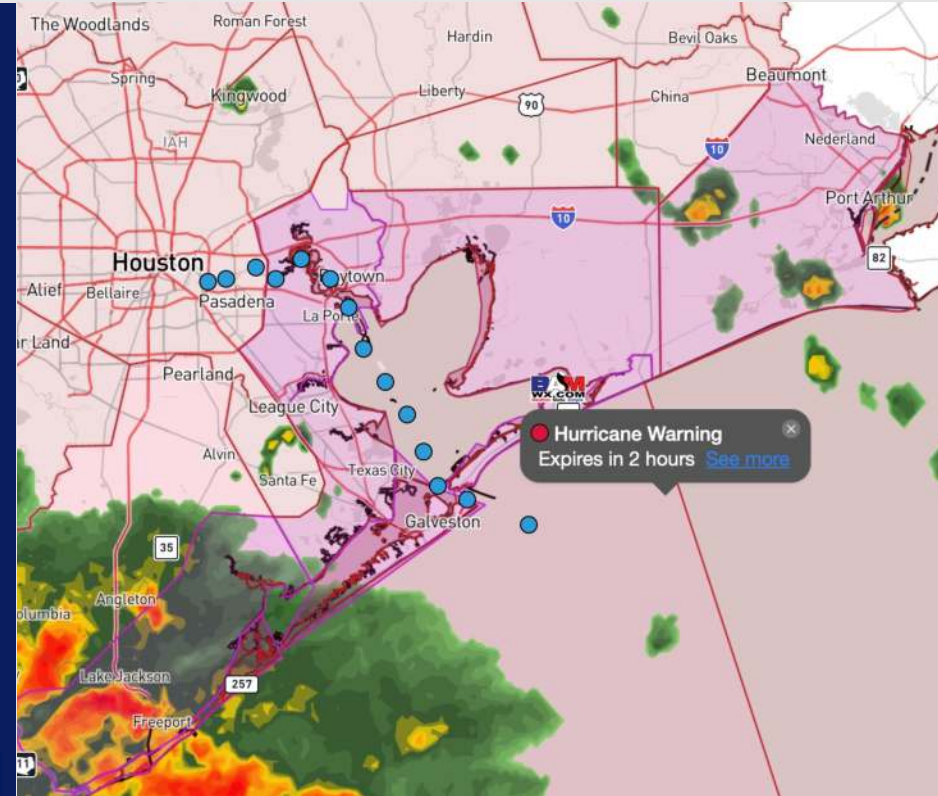


Updated: 10:40 PM CT  
Sunday, July 7, 2024

Forecaster: Tyler Riggles

## Weather Headlines

- [Beryl Video \(click here\) PM Sun 7/7/24](#)
- Storm Surge **Warning** of 4-6 feet is in effect.
- A **Hurricane Warning** is now in effect for the Boarding Station.
- **Zulu Port Conditions** are in effect through **TUE AM** (see Trigger slide below).
- **The worst conditions (winds and waves) will come 3AM – 3 PM today (more on timing slide below).**



Current Radar: 10:39 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 Tropical Update

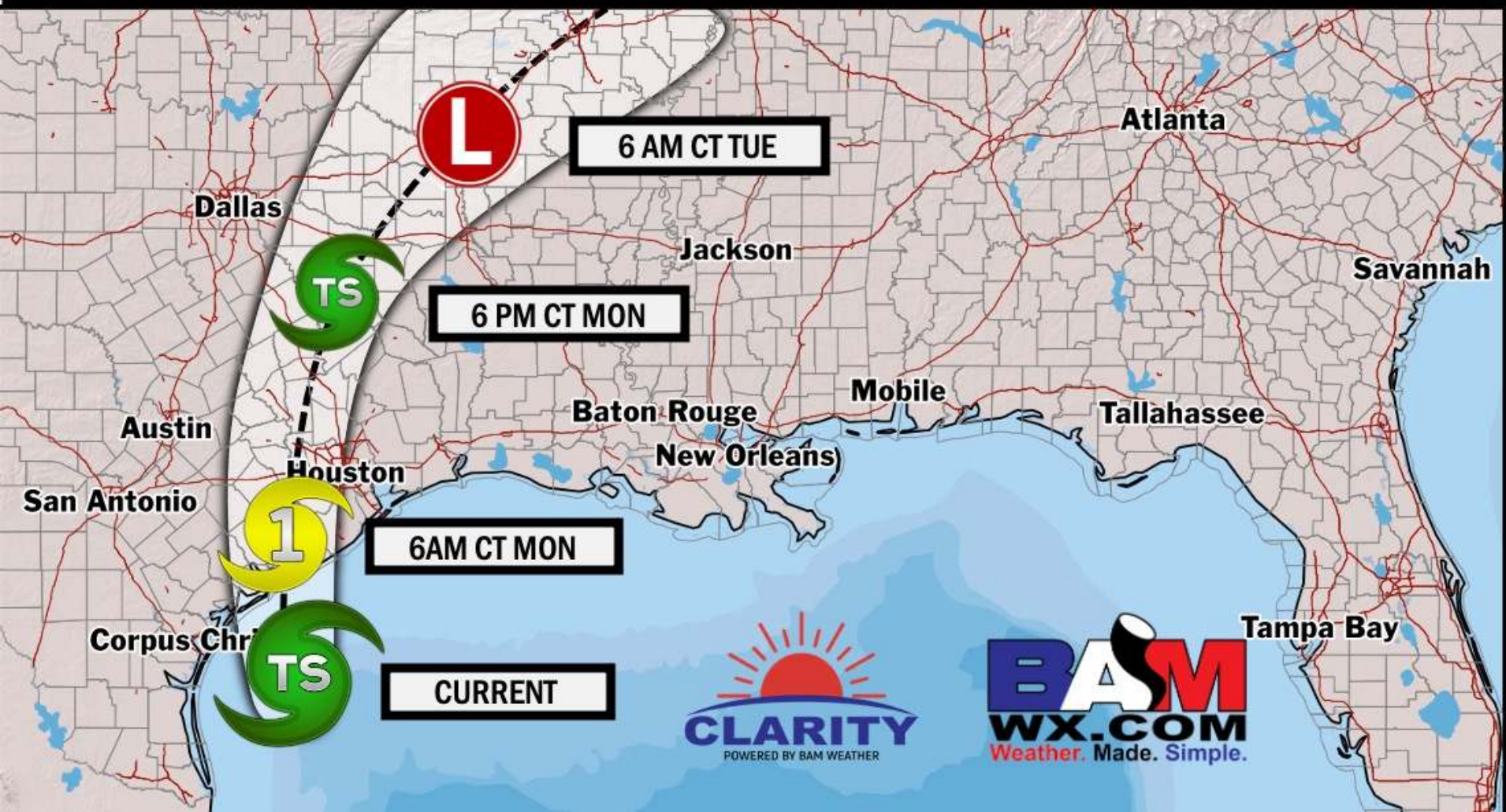


## TROPICAL STORM BERYL OUTLOOK

FORECASTER: Riggles

July 7<sup>th</sup> - July 9<sup>th</sup>, 2024

UPDATED: 7/7/24 9:50 PM CT



# Houston Pilots Tropical Update



## BOARDING STATION MAIN TAKEAWAYS

**Wind Direction:** Consistently out of the SE through this morning, before shifting out of the S by 2 PM, and then out of the SW from 6 PM through TUE.

**Wind Timing:** Highest winds likely come 3 AM to 3 PM today.

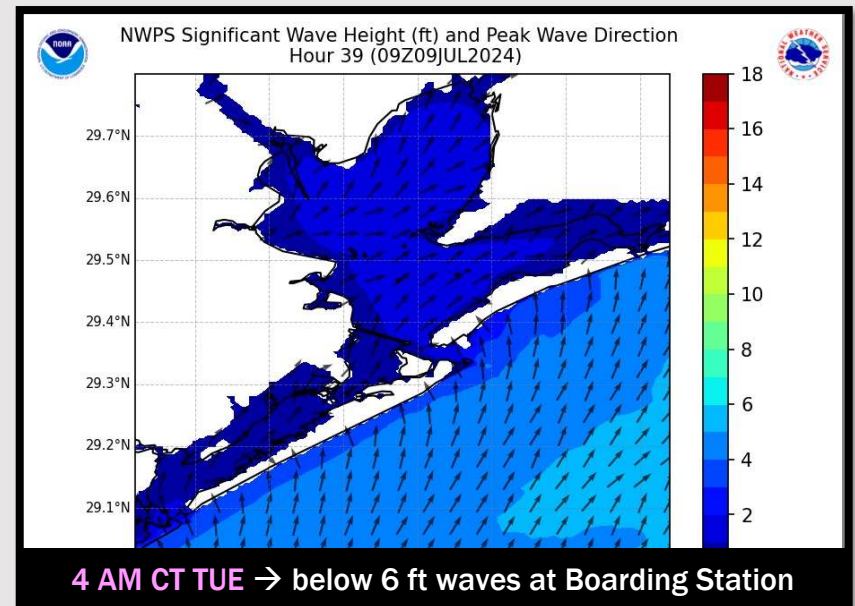
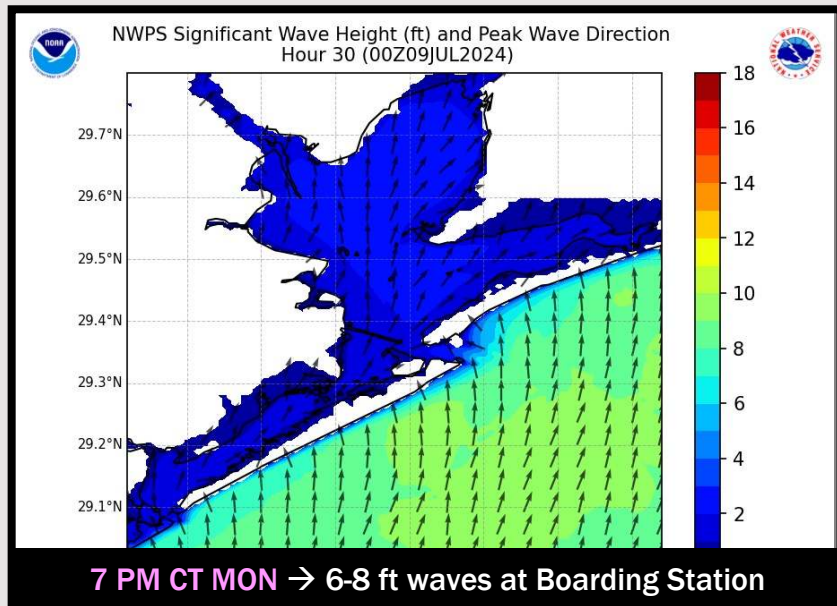
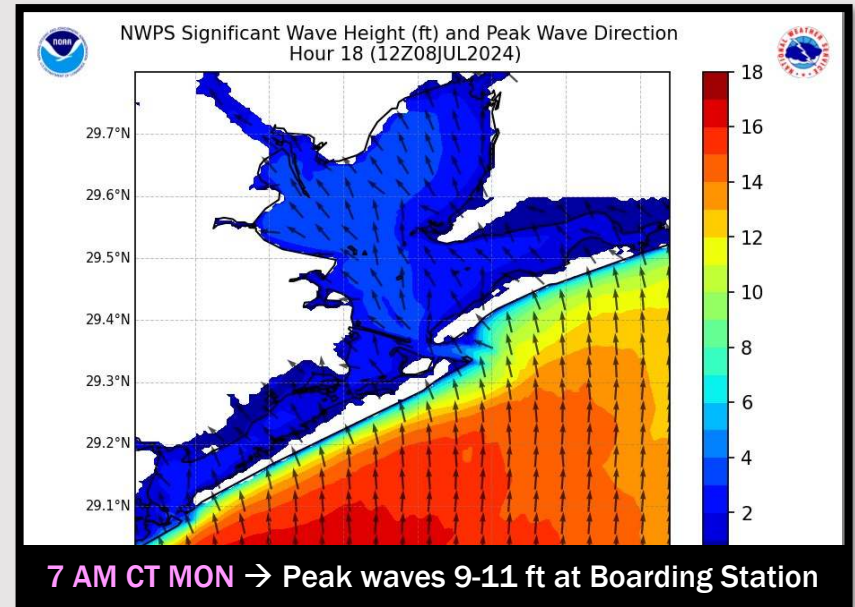
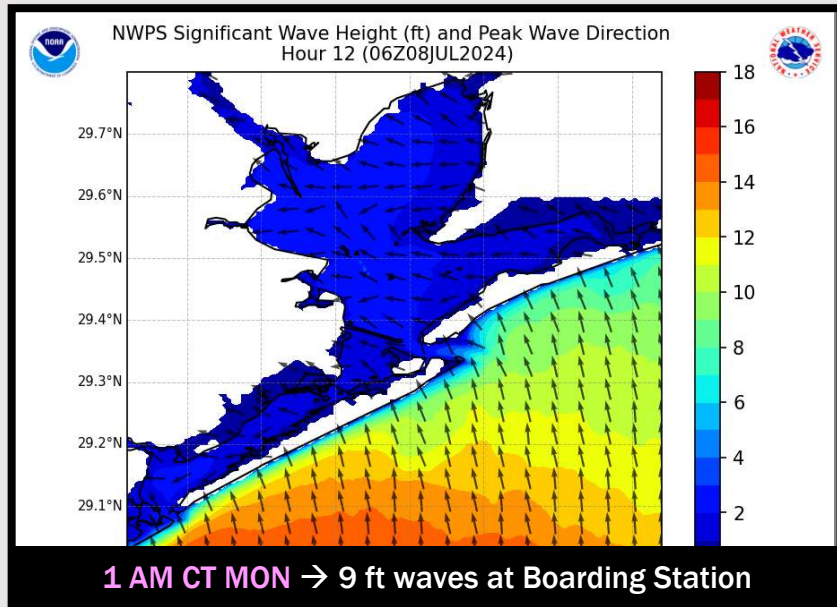
**Wind Speed Max:** 40 - 50 knots possible.

**Wind Gust Max:** 50 - 65 knots possible.

**Wave Heights:** Wave heights of 9-11 feet will be possible at the boarding station between **1 AM - 4 PM today** .

**Tides:** MON: High: 8:25 AM Low: 11:35 PM

# Wave Height Forecast Update



# Houston Pilots Wave Height Update



Port Condition	34 KTS+ Sustained Wind Trigger Reached at:	6 Foot Wave Trigger Reached at:	Time Remaining/Trigger Ends At:
Victor	—	—	Ended
Whiskey	Past This Trigger	—	Ended
X-Ray	Past This Trigger	Past This Trigger	Ended
Yankee	Past This Trigger	Past This Trigger	Ended
Zulu	Current	Current	4 AM CT TUE

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

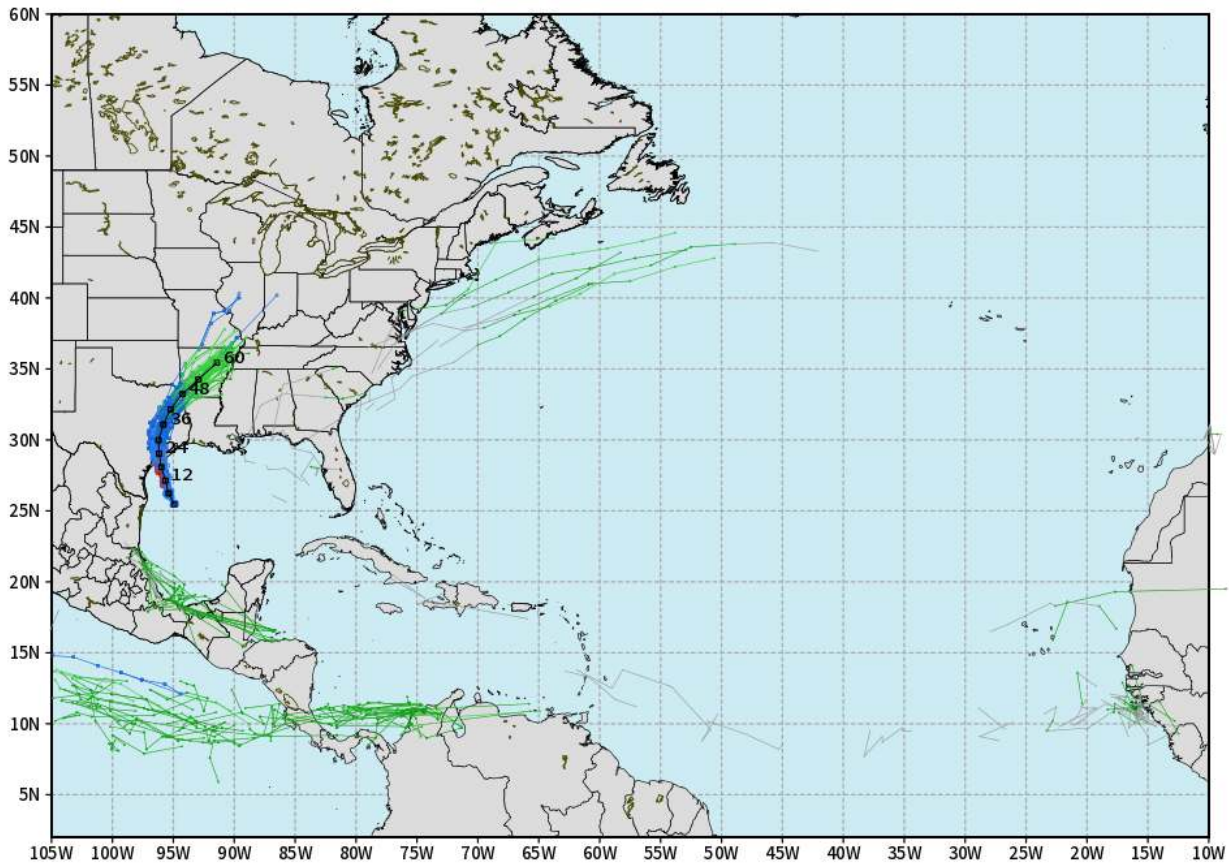
**NOTES:** As of Sunday Evening, Zulu port conditions are in effect as 6 feet waves will be possible throughout the day Monday, with the worst of conditions present early morning through mid afternoon.

# Houston Pilots Tropical Update

## European Model Next 10 Days - Tropical Tracks

ECMWF ATLANTIC EPS Cyclone Locations --> Next [10-days]  
INIT: 12Z07JUL2024 --> UNTIL 12Z17JUL2024

- 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](http://weathermodels.com)

After Tropical Storm Beryl moves out of the area Monday (more on Beryl in previous slides), we are not in favor of additional tropical threats over the next 10-15 days.

# Houston Pilots Visibility Chart (miles)



## Forecast Confidence



Time	Sun 11pm	Mon 12am	Mon 1am	Mon 2am	Mon 3am	Mon 4am	Mon 5am	Mon 6am	Mon 7am	Mon 8am	Mon 9am	Mon 10am	Mon 11am	Mon 12pm	Mon 1pm	Mon 2pm	Mon 3pm	Mon 4pm	Mon 5pm	Mon 6pm	Mon 7pm	Mon 8pm	Mon 9pm	Mon 10pm
610 Bridge	9	9	10	9	9	6	6	6	4	2	2	2	2	2	3	3	3	4	4	6	6	6	6	6
Kinder 1	9	9	10	9	9	6	6	6	4	2	2	2	2	2	3	3	3	4	4	6	6	6	6	6
Greens Bayou	6	9	10	10	9	6	6	6	4	2	2	2	2	2	3	3	3	4	4	6	6	6	6	6
Shell Crude	9	9	10	10	9	6	6	6	4	2	2	2	2	2	3	3	3	4	4	6	6	6	6	6
Lynchburg Ferries	6	9	10	10	7	7	6	6	4	2	2	2	2	2	3	3	3	4	4	6	6	6	6	6
Exxon 3	10	9	10	10	7	9	6	6	4	2	2	2	2	2	3	3	3	4	5	6	6	6	6	6
Morgans Point	10	10	10	10	7	9	6	6	4	2	2	2	2	2	3	4	4	4	5	6	7	6	8	6
75/76	10	10	10	10	7	7	6	6	4	2	2	2	3	4	4	4	5	5	6	6	7	6	9	10
63/64	10	10	10	7	6	7	6	6	4	2	2	2	4	5	4	4	5	5	6	6	7	6	9	10
51/52	10	10	10	6	5	6	5	6	4	1	2	1	4	5	4	4	5	5	5	6	6	6	9	9
37/38	10	10	10	6	5	6	5	6	4	1	2	1	4	4	4	4	5	5	5	6	6	6	9	9
25/26	10	10	10	6	5	6	5	5	4	2	2	1	4	4	4	4	5	6	6	6	6	6	9	9
11/12	7	9	9	6	5	5	5	5	4	1	2	1	2	3	4	4	5	5	5	6	6	6	9	9
1 & 2 Bravo	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	9	9

**NOTE: This is automated data that may/may not agree with the official B.A.M. 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



## Example

Sustained wind 13 Knots  
Gusts 18 Knots  
Wind from the N

WS: 13  
G:18  
N

Time Knots	Sun 11pm	Mon 12am	Mon 1am	Mon 2am	Mon 3am	Mon 4am	Mon 5am	Mon 6am	Mon 7am	Mon 8am	Mon 9am	Mon 10am	Mon 11am	Mon 12pm	Mon 1pm	Mon 2pm	Mon 3pm	Mon 4pm	Mon 5pm	Mon 6pm	Mon 7pm	Mon 8pm	Mon 9pm	Mon 10pm
610 Bridge	15	15	16	17	19	20	21	23	23	24	23	23	23	23	21	21	19	18	17	15	13	13	12	11
	30	30	30	34	36	38	41	43	45	46	46	46	45	44	43	42	40	37	34	31	27	26	24	23
Kinder 1	15	15	15	17	18	19	21	22	23	24	23	23	23	22	21	20	19	18	17	15	13	12	11	11
	30	30	30	34	36	38	41	43	45	47	46	45	45	43	42	41	39	36	34	31	28	26	24	23
Greens Bayou	15	15	15	17	18	19	21	22	23	23	23	23	22	22	21	20	19	17	17	15	13	13	12	11
	29	30	30	33	36	38	40	43	44	46	45	45	43	42	41	40	38	35	34	31	28	26	25	23
Shell Crude	15	15	15	17	18	19	21	22	23	23	23	23	23	21	20	20	19	17	17	15	13	13	12	11
	30	30	30	34	37	38	41	43	45	46	45	45	43	42	40	40	38	35	33	30	27	26	25	23
Lynchburg Ferries	14	14	15	16	17	19	20	21	23	23	23	23	23	23	22	21	20	19	18	16	14	13	12	11
	29	30	30	32	35	37	40	42	44	45	44	44	43	42	41	40	39	36	34	31	28	27	25	24
Exxon 3	22	23	23	26	27	29	30	31	32	32	30	30	28	27	25	25	23	22	21	20	19	19	18	17
	30	31	32	36	38	40	43	45	46	46	45	44	43	42	40	39	36	34	33	31	28	28	27	25
Morgans Point	23	23	24	26	28	29	31	32	32	32	30	30	28	27	26	25	23	22	21	20	19	19	18	17
	31	32	33	37	39	41	44	46	47	47	46	45	44	43	40	40	37	35	33	31	28	28	26	25
75/76	24	25	26	28	30	31	33	34	34	34	33	32	32	30	29	27	26	24	23	22	20	19	19	18
	33	35	36	39	42	45	47	50	51	51	50	49	47	46	43	41	39	37	35	33	30	28	28	26
63/64	25	25	26	28	30	31	33	34	34	34	34	33	33	32	30	29	27	26	25	23	21	20	19	18
	34	36	37	40	43	46	48	50	51	52	51	50	49	47	44	43	41	38	36	34	31	29	28	26
51/52	25	27	27	30	32	32	34	35	35	35	34	34	32	32	30	30	29	26	25	23	21	20	19	18
	36	38	38	41	45	47	50	51	52	53	52	51	49	48	44	43	42	39	36	33	30	29	28	26
37/38	25	27	27	30	31	32	34	34	34	34	34	34	32	31	30	30	29	25	24	23	21	20	19	18
	36	38	38	42	45	47	50	51	52	53	52	51	50	48	44	43	42	40	37	34	31	29	28	26
25/26	24	25	26	28	30	31	32	33	34	34	33	32	32	30	28	28	27	25	23	21	20	19	19	17
	36	38	38	42	45	47	49	51	51	52	51	51	49	48	44	44	42	40	36	33	31	29	28	25
11/12	23	23	24	26	27	28	30	31	31	32	32	31	30	29	27	27	27	25	22	20	19	18	17	16
	36	38	38	42	44	46	48	50	50	51	50	49	48	47	44	42	40	38	35	33	30	28	28	25
1 & 2 Bravo	26	27	28	30	31	32	33	34	34	34	34	34	34	33	32	30	30	27	26	24	22	21	21	19
	38	39	40	44	46	47	50	51	51	52	52	51	49	49	48	47	44	40	39	35	32	31	29	28

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: Mon. 7/8/2024



## Forecast Discussion

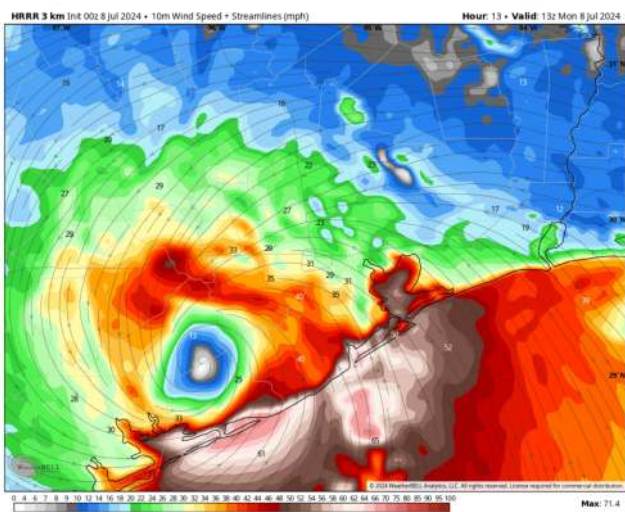
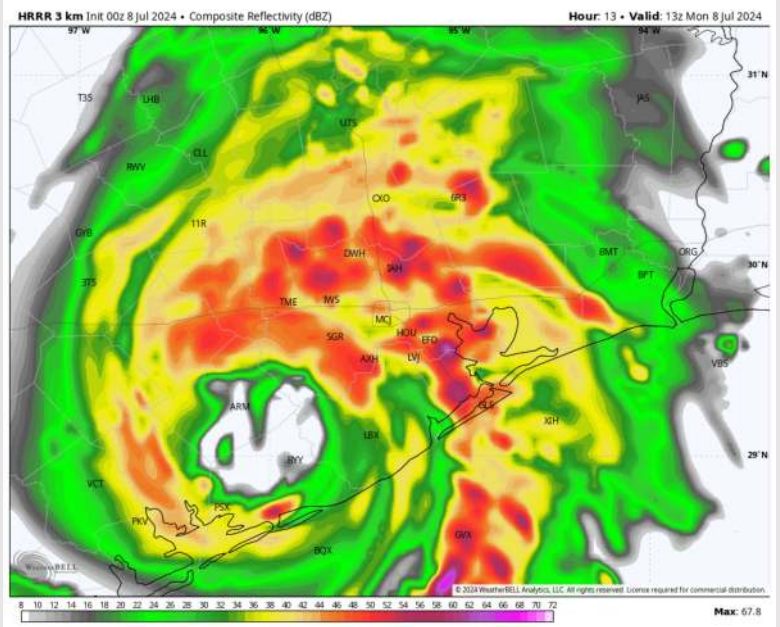
**Precip:** Anticipating widespread moderate/heavy rain associated with Tropical Storm Beryl to work through the area throughout MON. See tropical slide(s) above for more on exact timing/impacts related to Beryl. Risk is coverage can start to taper off towards 6-7 PM CT

**Wind:** Winds will be out of the SE through ~2 PM before shifting to being out of the S/SW. **N of Morgan's Point:** Winds start at 13-18 kts and gradually increasing throughout the day. **Wind peak at 25-35 kts from 5 AM to 3 PM CT, gradually calming afterwards.** **S of Morgan's Point:** Winds begin at 25-35 kts, gradually increasing to 40-50 kts by 3 AM. Winds continue at this rate through ~3 PM CT before gradually decreasing. Wind gusts of 45-50+ kts will be prevalent at all stations, although more localized N of Morgan's Point. Peak gusts of 55-65 knots will be possible at the Boarding Station.

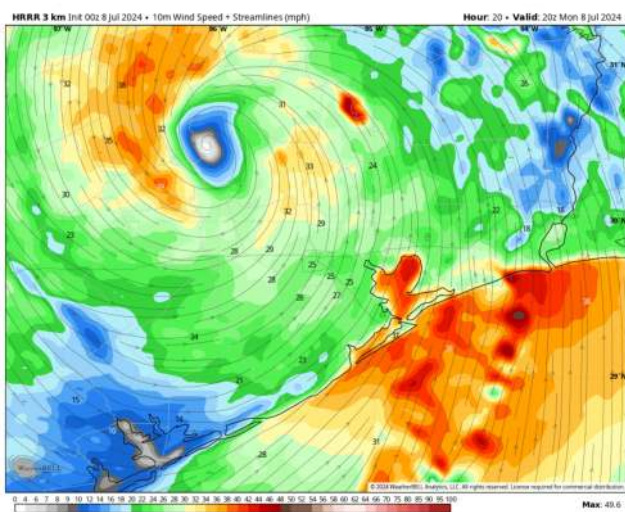
**High Temps:** **N of Morgan's Point:** Mid 80s F. **S of Morgan's Point:** High 80s F.

**Visibility:** Reduced visibilities will be present MON associated with heavy rainfall.

## Precip Image: 8 AM CT



Wind Speed:  
8 AM CT



Wind Speed:  
3 PM CT

# Houston Pilots: Tue. 7/9/2024



## Forecast Discussion

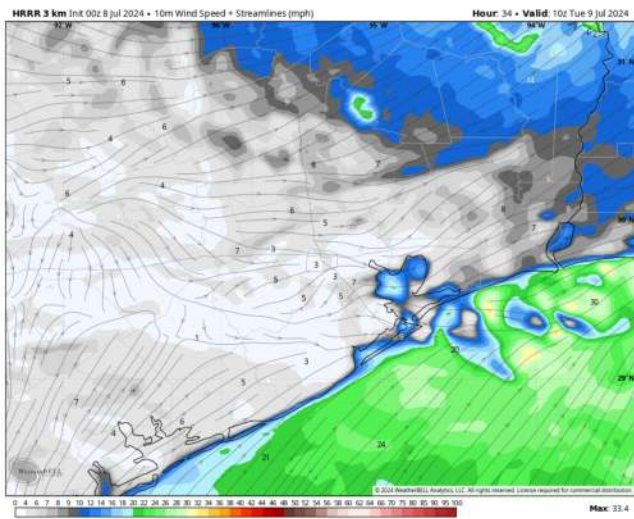
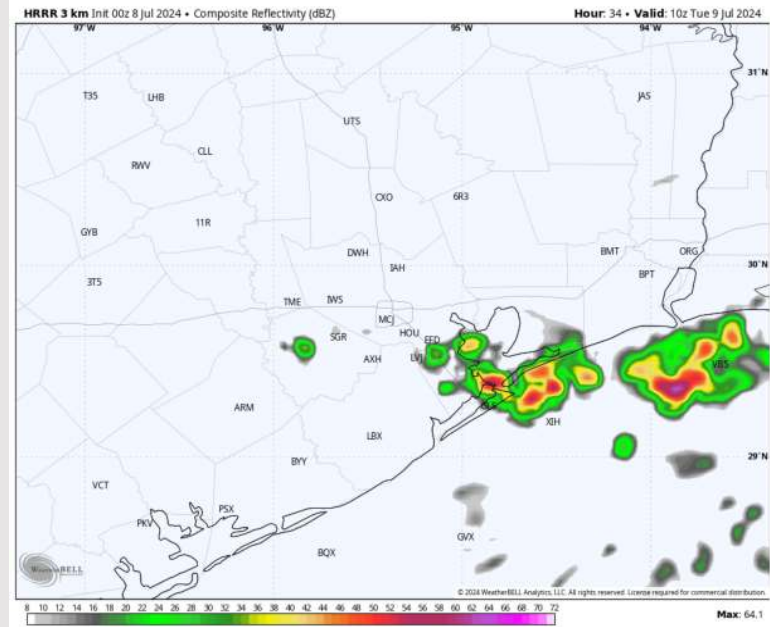
**Precip:** A few bands of scattered showers/storms will linger behind Tropical Storm Beryl throughout the day on Tuesday. Main risks with thunderstorms will be lightning and **25-30 kt gusts**.

**Wind:** Winds remain out of the SW throughout Tuesday. **N of Morgan's Point:** Winds begin the day at 8-13 kts and will be on a decline through 6 AM, settling at 4-9 kts. **S of Morgan's Point:** Winds begin the day at **20-25 kts** and will be on a gradual decline through 11 AM, settling at 6-11 kts. **Gusts of 25-30 kts will be possible for all stations with scattered thunderstorms**

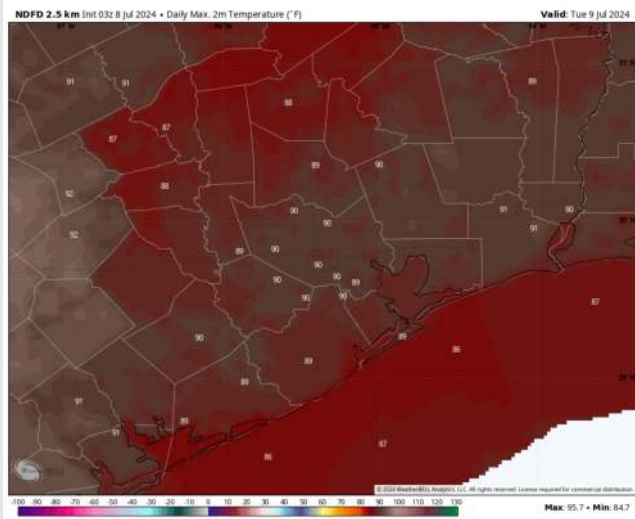
**High Temps:** **N of Morgan's Point:** Near 90s F. **S of Morgan's Point:** Upper 80s F.

**Visibility:** Fog is not favored for Tuesday however heavier downpours can result in reduced visibilities.

## Precip Image: 5 AM CT



Wind Speed:  
5 AM CT



High Temps  
Tuesday

## Forecast Discussion

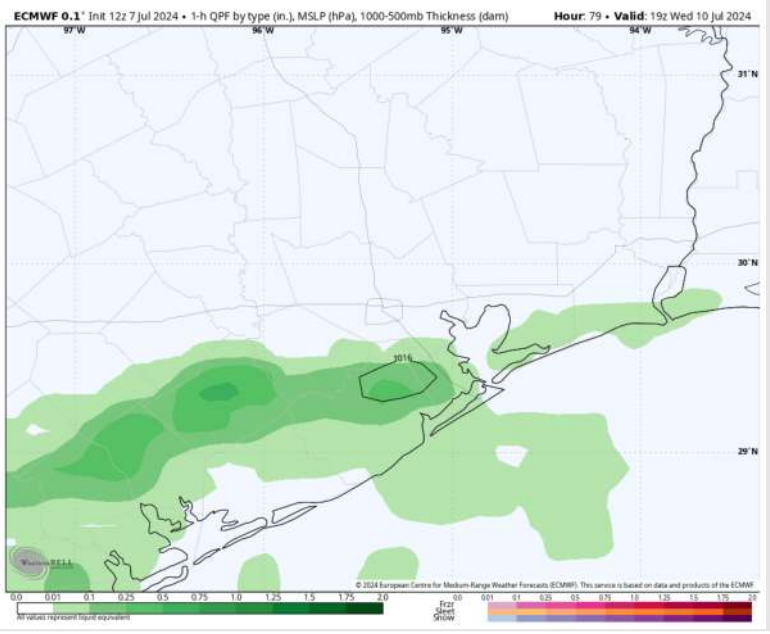
**Precip:** Scattered showers possible at the Boarding Station through 1 PM before rain chances encroach into the bay and affect Stations S of Morgan's Point through 5 PM.

**Wind:** Winds out of the SW gradually rotate clockwise through 9 AM and settle out of the NW. Winds then become variable in direction after 12 PM and settle back out of the SW by 7 PM. **N of Morgan's Point:** Winds 3-8 kts throughout Wednesday. **S of Morgan's Point:** Winds at 5-10 kts throughout the day.

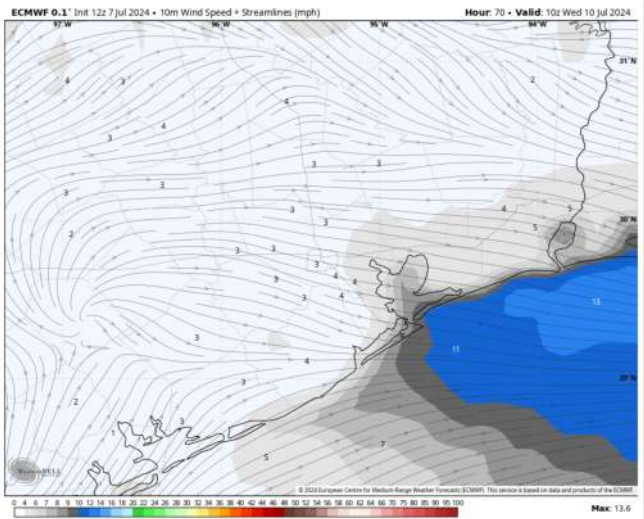
**High Temps:** **N of Morgan's Point:** Low 90s F. **S of Morgan's Point:** Upper 80s F.

**Visibility:** Monitoring a low-end risk for patchy fog N of Morgan's Point WED AM.

## Precip Image: 2 PM CT

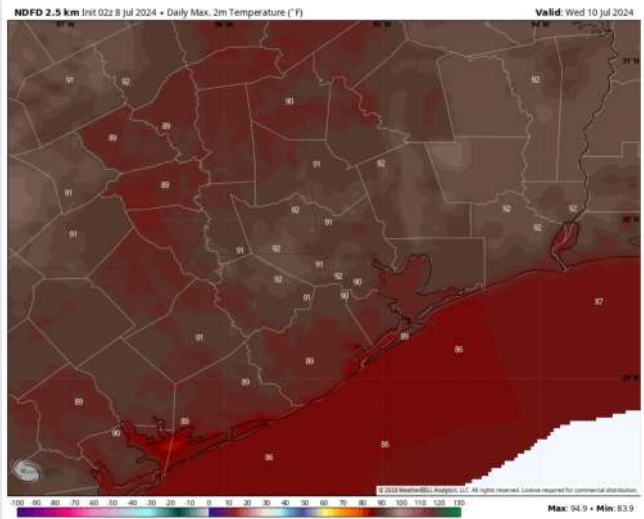


## Wind Speed 5 AM CT



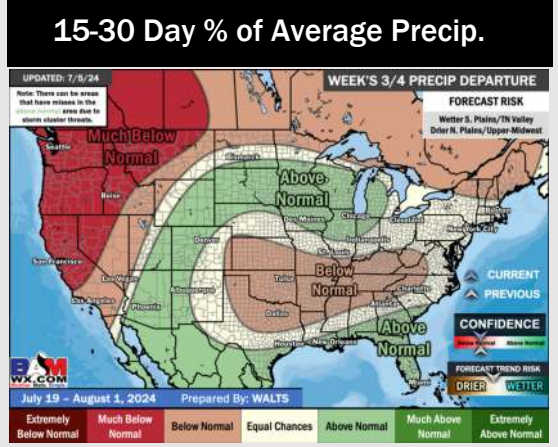
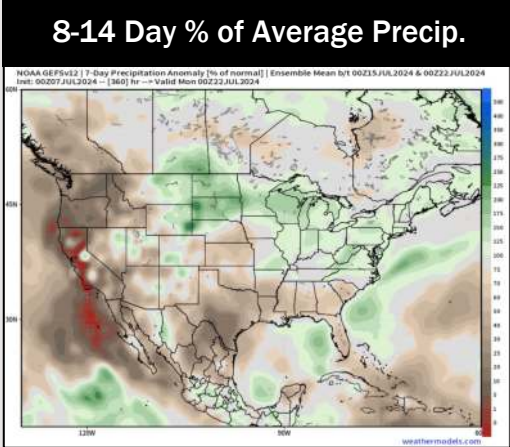
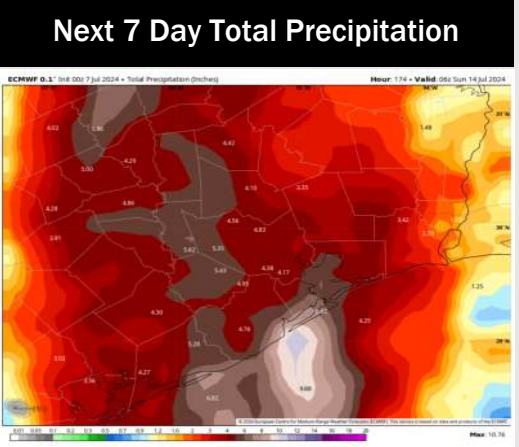
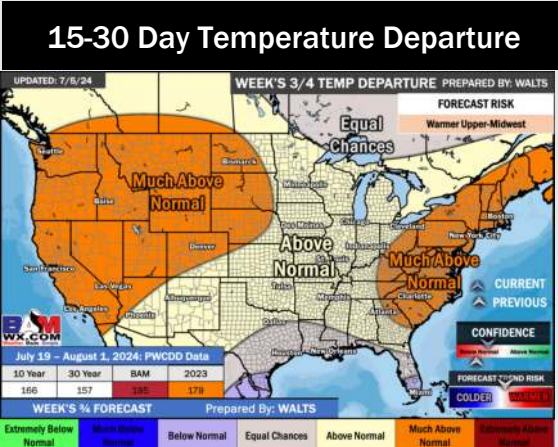
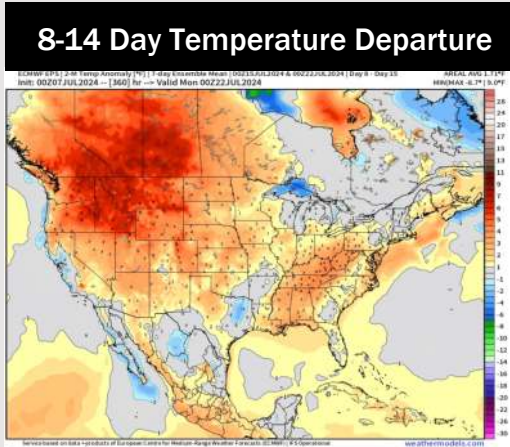
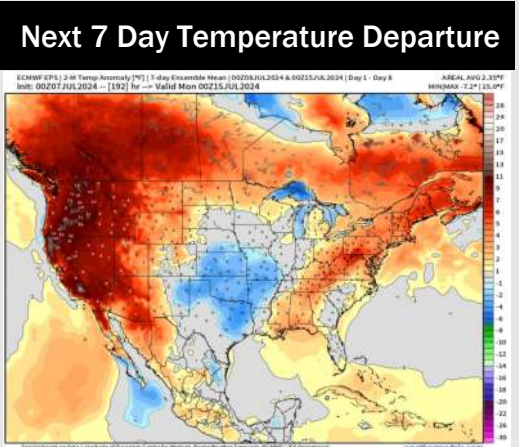
Wind Speed  
5 AM CT

## High Temps Wednesday



High Temps  
Wednesday

# Houston Pilots: 7/8/24



- Temps are expected to be seasonable/slightly below normal for Week 1 timeframe. Heavy Rainfall associated with Tropical Storm Beryl will work through now through early TUE.
- Below normal precipitation are favored for the week 2 timeframe. Near normal temperatures are favored for week 2.
- Above normal chances for precipitation and near normal temperatures are favored in the weeks 3/4 timeframe.