

Houston Pilots Forecast Package

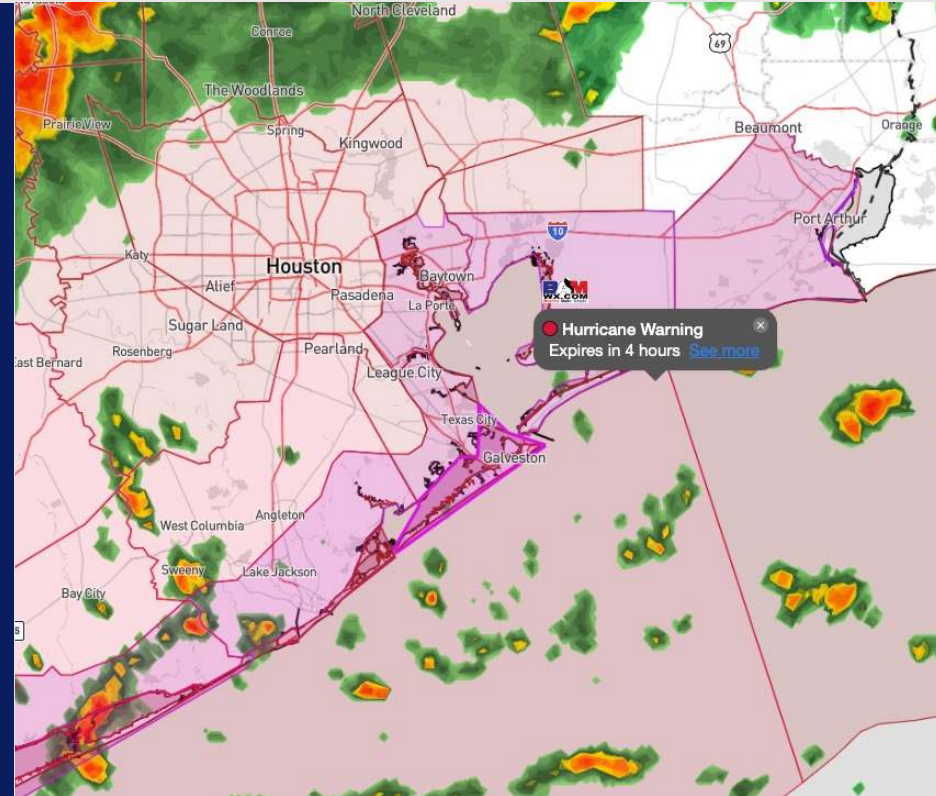


Updated: 1:45 PM CT
Sunday, July 7, 2024

Forecaster: Jonathan Kipper

Weather Headlines

- [Beryl Video \(click here\) PM Sun 7/7/24](#)
- Storm Surge **Warning** of 3-5 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).
- **Winds will continue to be on the increase** this afternoon/evening and into **MON.**
- **The worst conditions (winds and waves) will come 3AM – 3 PM Monday** (more on timing slide below).



Current Radar: 1:45 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 Tropical Update

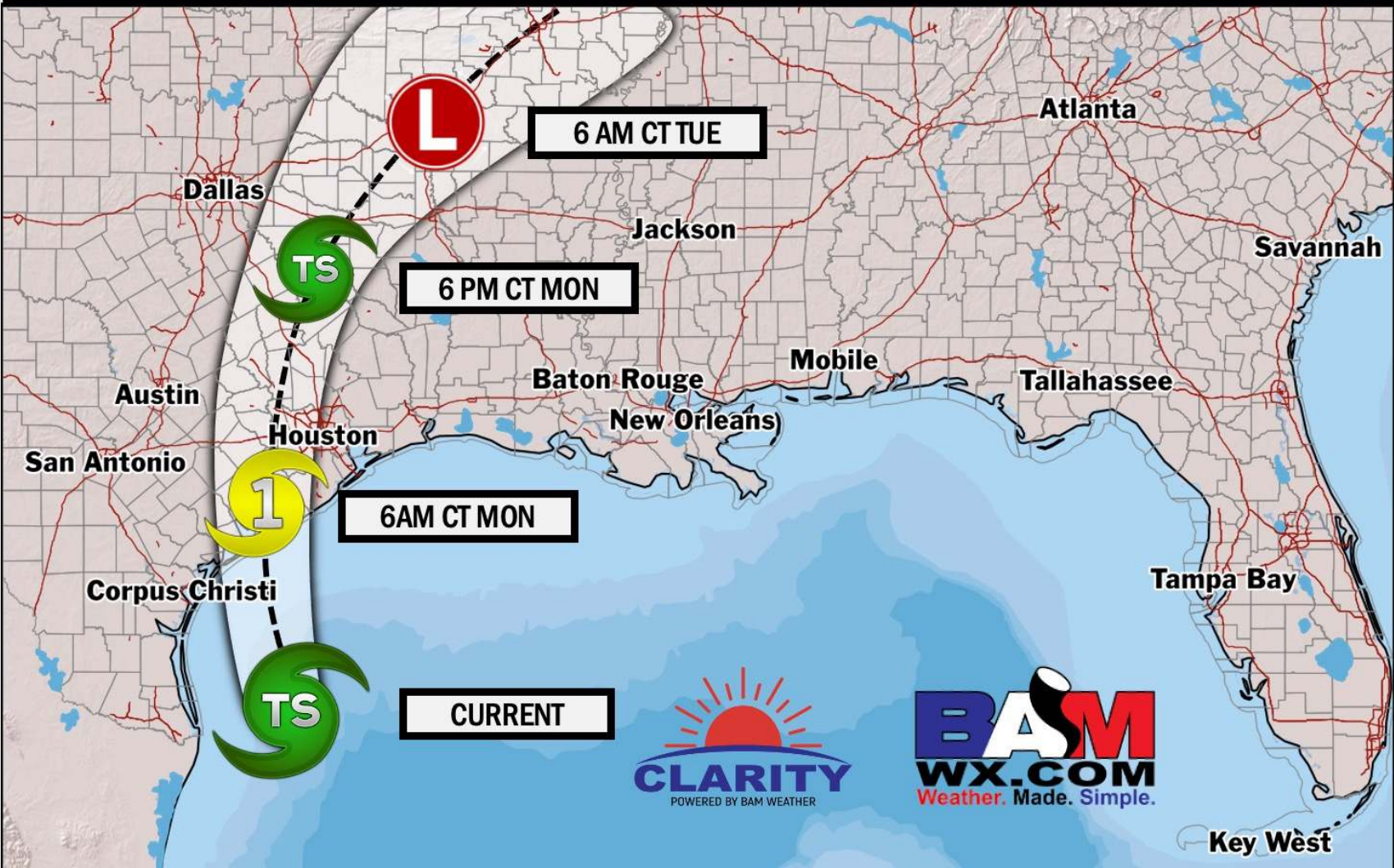


TROPICAL STORM BERYL OUTLOOK

FORECASTER: Kipper

July 7th - July 9th, 2024

UPDATED: 7/7/24 1:15 PM CT



Key West

Houston Pilots Tropical Update



BOARDING STATION MAIN TAKEAWAYS

Wind Direction: Consistently out of the SE SUN through MON AM, before coming out of the S by 2 PM MON, and then out of the SW from 6 PM MON through TUE.

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

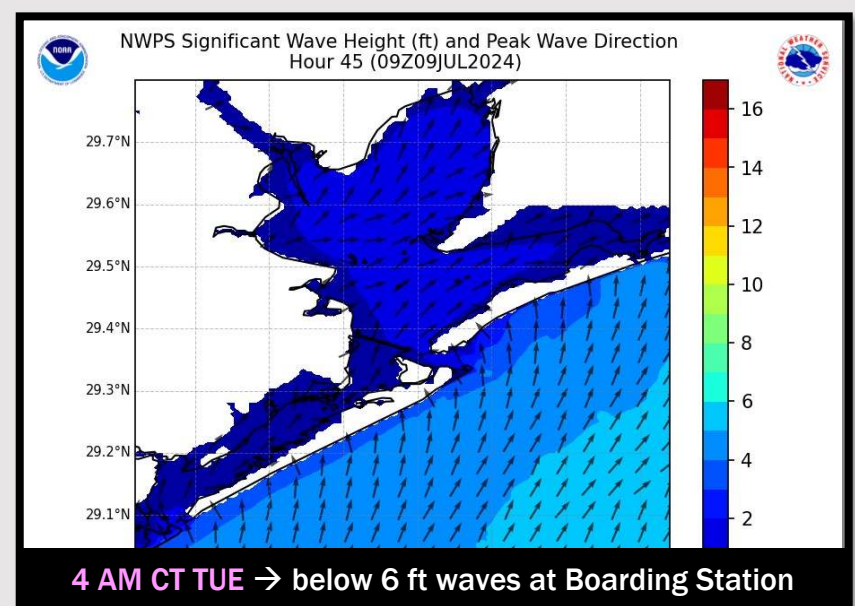
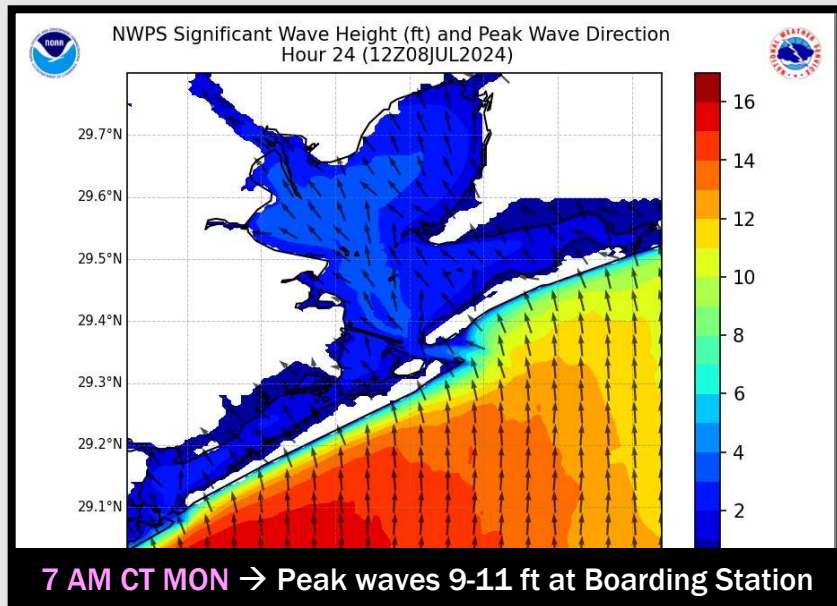
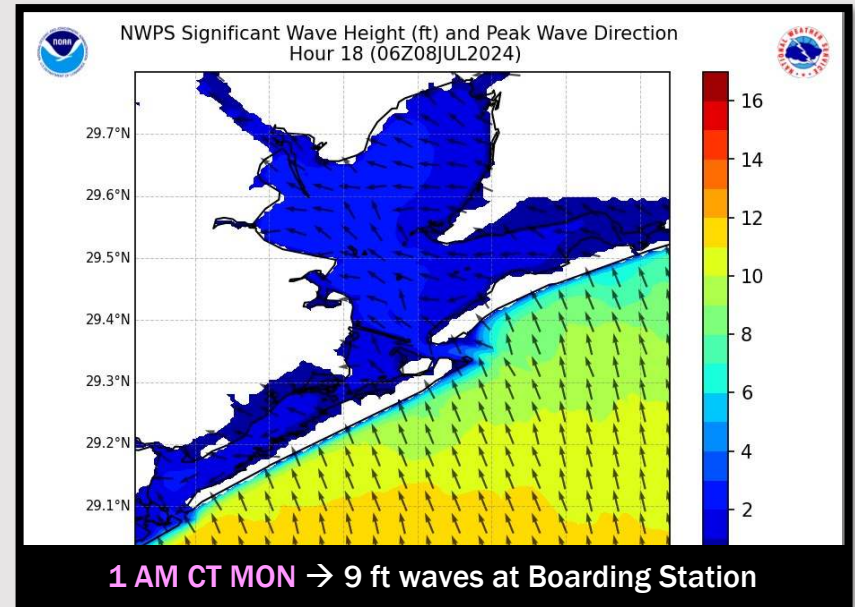
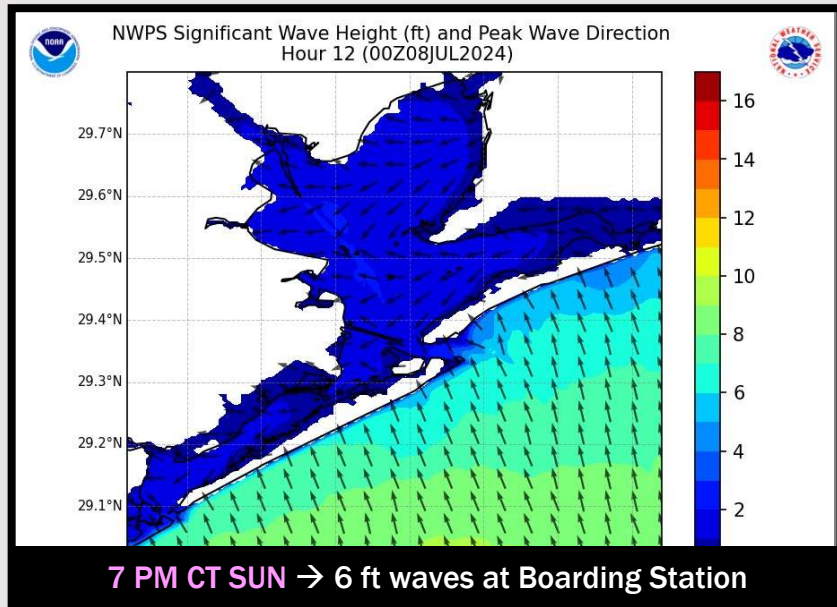
Wind Speed Max: 40 - 50 knots possible.

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 MON**.

Tides: SUN: High: 7:30 AM Low: 10:55 PM
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

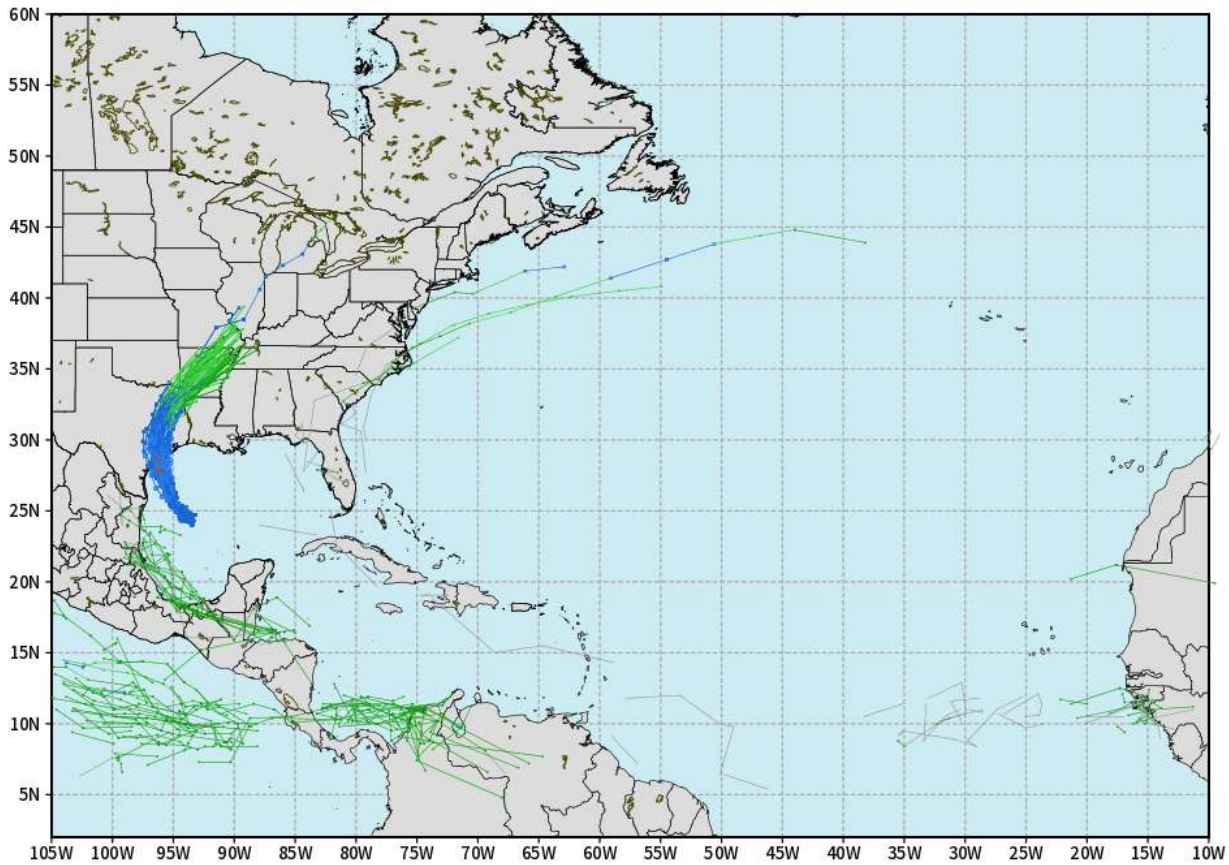
NOTES: As of Sunday Afternoon, Zulu port conditions are in effect as 6 feet waves will be possible at the boarding station starting at 7 PM CT SUN. The worst of conditions will be present early Monday morning through mid afternoon Monday.

Houston Pilots Tropical Update

European Model Next 10 Days - Tropical Tracks

ECMWF ATLANTIC EPS Cyclone Locations --> Next [10-days]
INIT: 00Z07JUL2024 --> UNTIL 00Z17JUL2024

- 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

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)



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



Forecast Confidence



Sustained wind 13 Knots
Gusts 18 Knots
Wind from the N

Example

WS: 13
G:18
N

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

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Houston Pilots: Sun. 7/7/2024



Forecast Discussion

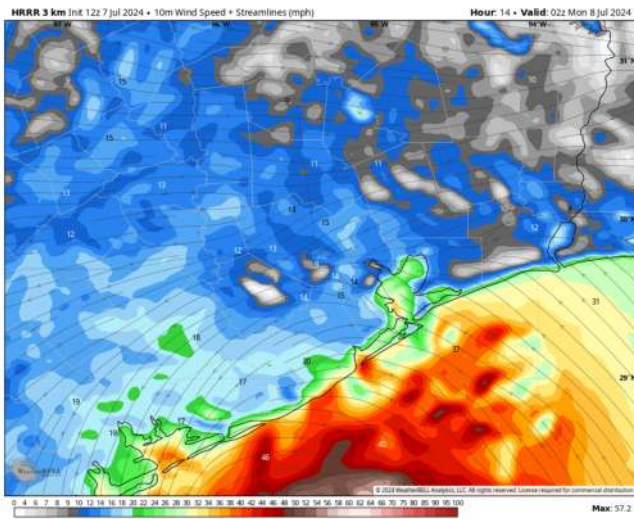
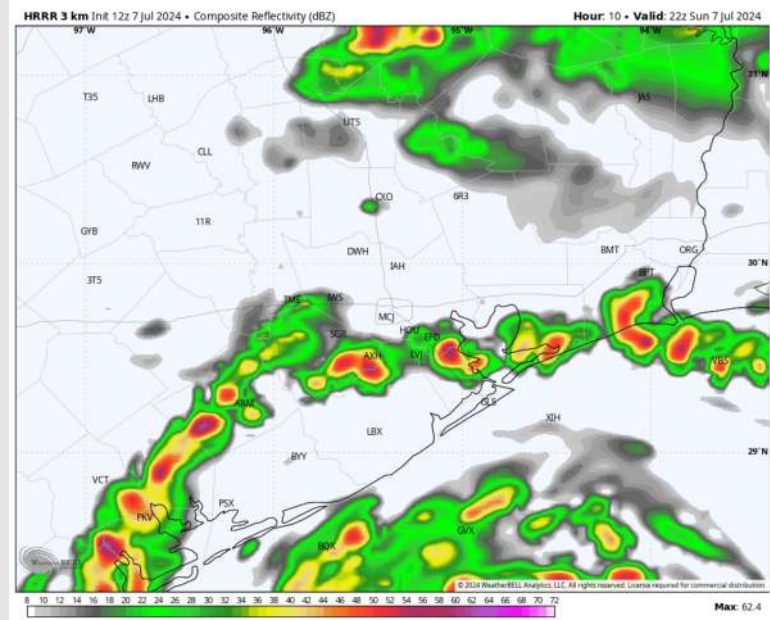
Precip: Scattered storms associated with Beryl's outer bands will continue to move across the area this afternoon/evening with coverage becoming more widespread after ~6 PM. **Tornadoes will be possible with any strong storms!**

Wind: Winds will be out SE throughout the PM hours. **N of Morgan's Point:** Winds 8- 13 kts for the rest of the day. **S of Morgan's Point:** Winds continue at 20-25 kts through ~8 PM CT before increasing to 28-33 kts the rest of the evening. Wind gusts of 35-45 kts S of Morgan's Point will be possible after 7 PM CT

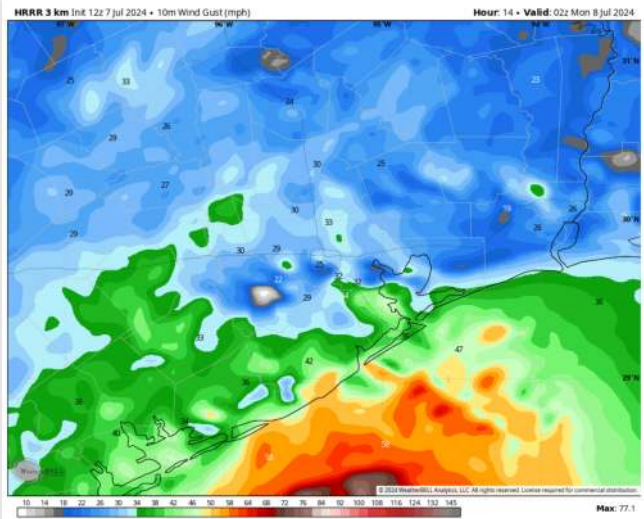
Low Temps: **N of Morgan's Point:** High 70s F. **S of Morgan's Point:** Low 80s F.

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

Precip Image: 5 PM CT



Wind Speed
9 PM CT



Wind Gusts
9 PM CT

Houston Pilots: Mon. 7/8/2024



Forecast Discussion

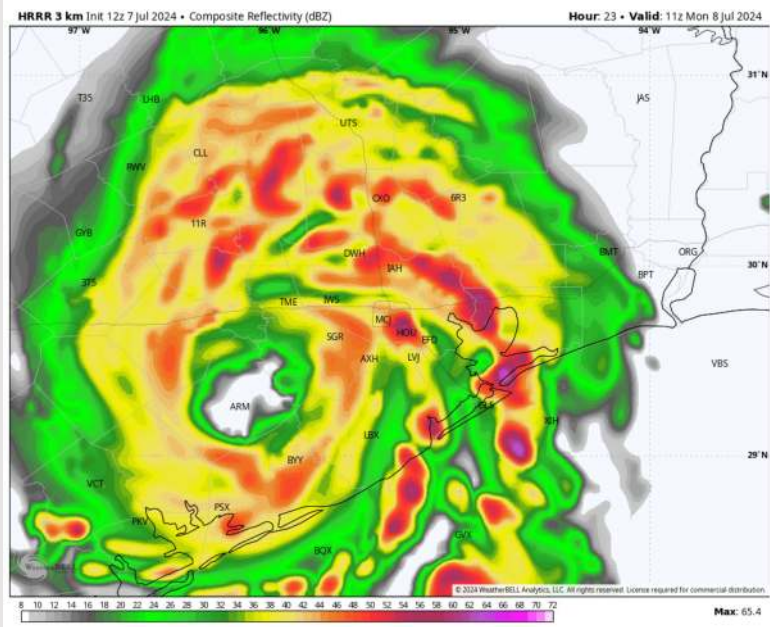
Precip: Anticipating widespread moderate/heavy rain associated with Tropical Storm Beryl to work through the area throughout MON. See tropical slide(s) above for more in on exact timing/impacts related to Beryl. Risk is coverage can start to taper off towards 6-7 PM CT

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.

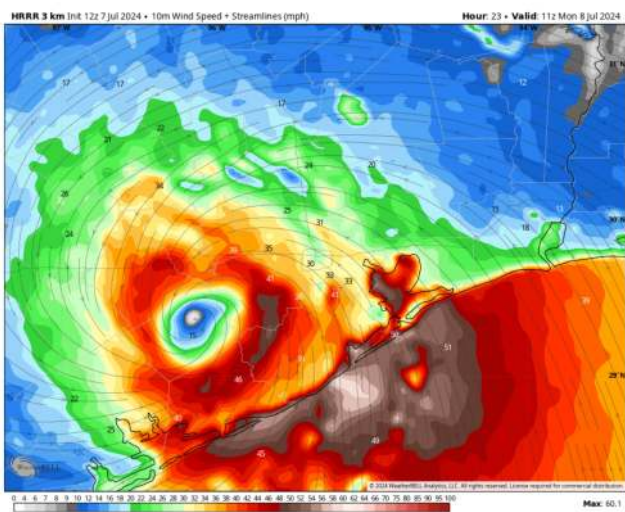
High Temps: N of Morgan's Point: Mid 80s F. S of Morgan's Point: High 80s F.

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

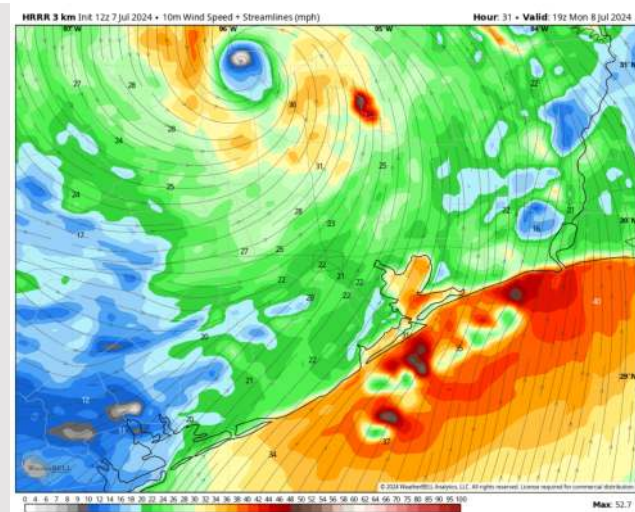
Precip Image: 6 AM CT



Wind Speed:
6 AM CT



Wind Speed:
2 PM CT



Houston Pilots: Tue. 7/9/2024



Forecast Discussion

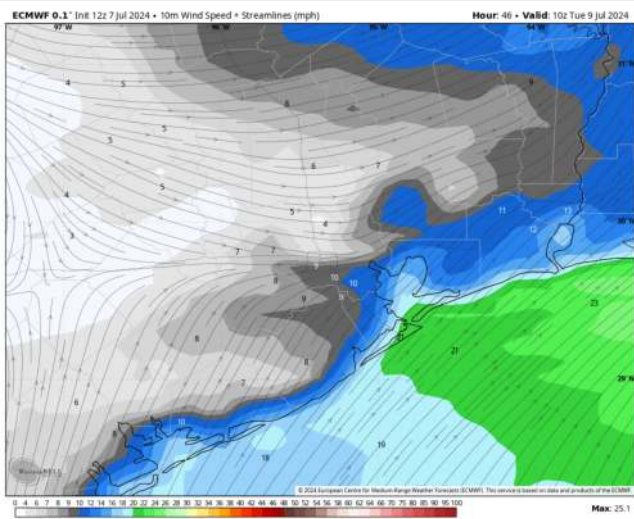
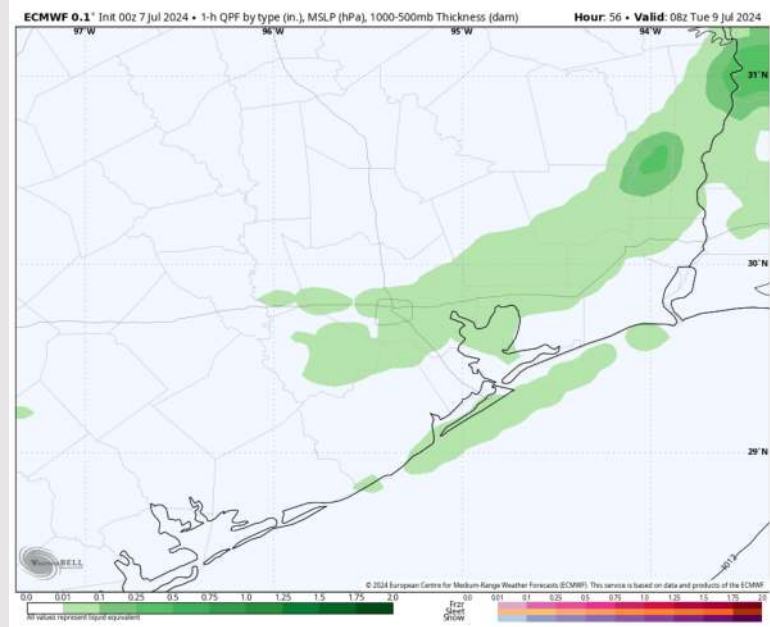
Precip: A few bands of scattered showers/storms will linger behind Tropical Storm Beryl throughout the day on Tuesday. Main risks with thunderstorms will be lightning and **20-25 kt gusts**.

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 20-25 kts will be possible for all stations with scattered thunderstorms**

High Temps: **N of Morgan's Point:** Near 80s 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: 3 AM CT



Wind Speed:
5 AM CT

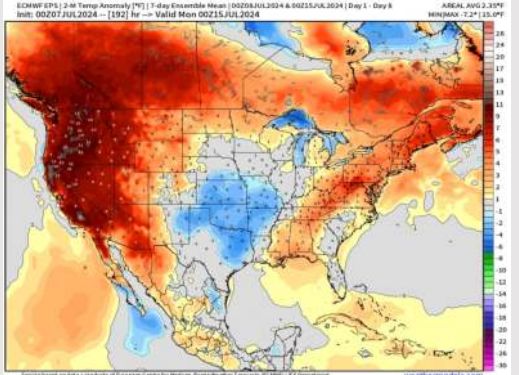


High Temps
Tuesday

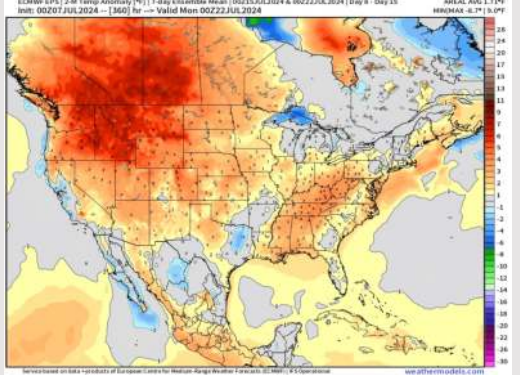
Houston Pilots: 7/7/24



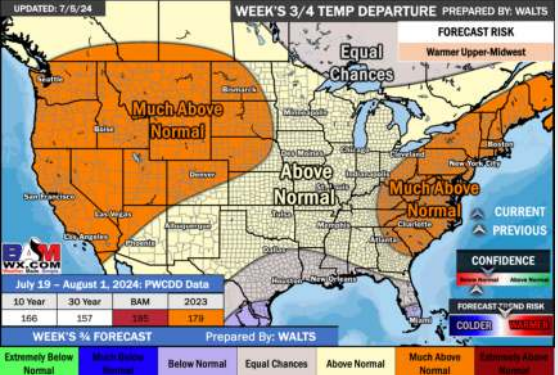
Next 7 Day Temperature Departure



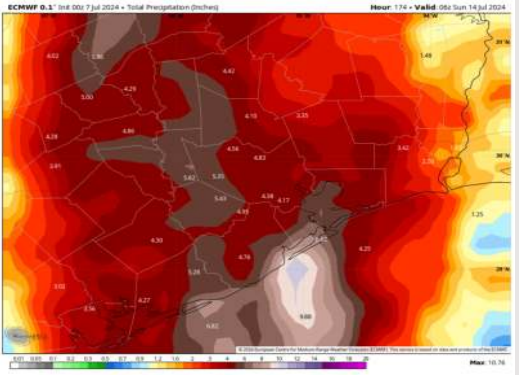
8-14 Day Temperature Departure



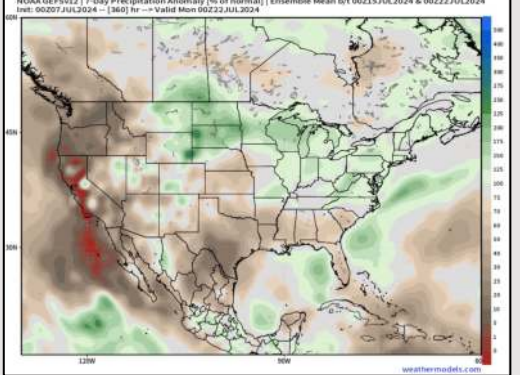
15-30 Day Temperature Departure



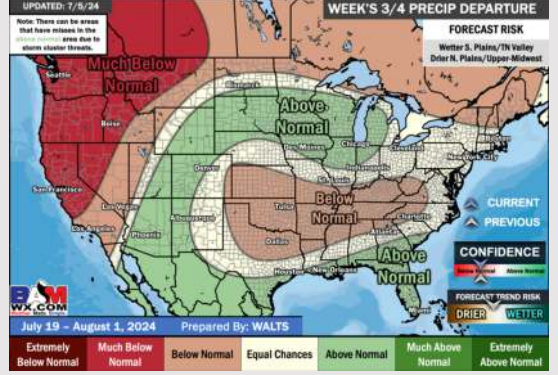
Next 7 Day Total Precipitation



8-14 Day % of Average Precip.



15-30 Day % of Average Precip.



- Temps are expected to be 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.