

Houston Pilots Forecast Package



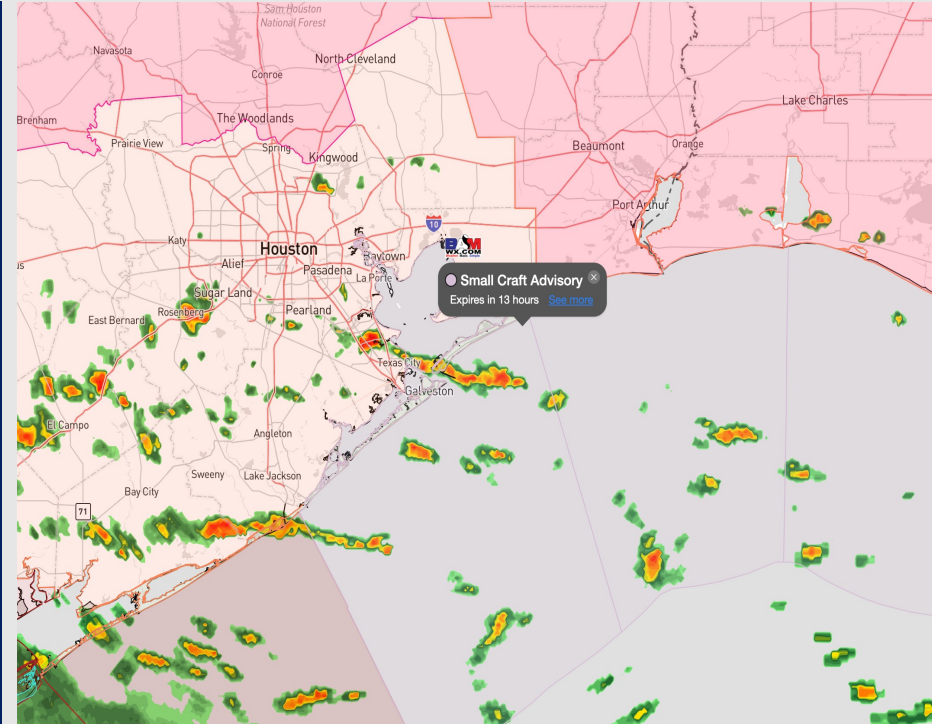
Updated: 1:20 PM CT

Tuesday, August 22, 2023

Forecaster: John Kemper

Weather Headlines

- **Tropical Storm Harold** has made landfall and continues to impact SE Texas coast. Maximum wave heights of up to 6' will continue through about 2 PM.
- Scattered showers and storms will continue to be possible as a result of the outer bands associated with Tropical Storm Harold through this evening.
- A few minor precipitation chances exists later into the week with limited wind issues.



Radar/NWS Alerts: 12:30 PM CT



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

Houston Pilots Tropical Update



Port Condition	34 KTS+ Sustained Winds	6 Foot Waves	Time Remaining/Trigger End
Victor	N/A	N/A	N/A
Whiskey	N/A	N/A	N/A
X-Ray	N/A	N/A	N/A
Yankee	N/A	N/A	N/A
Zulu	NO	IN EFFECT	2 PM CT TUE

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

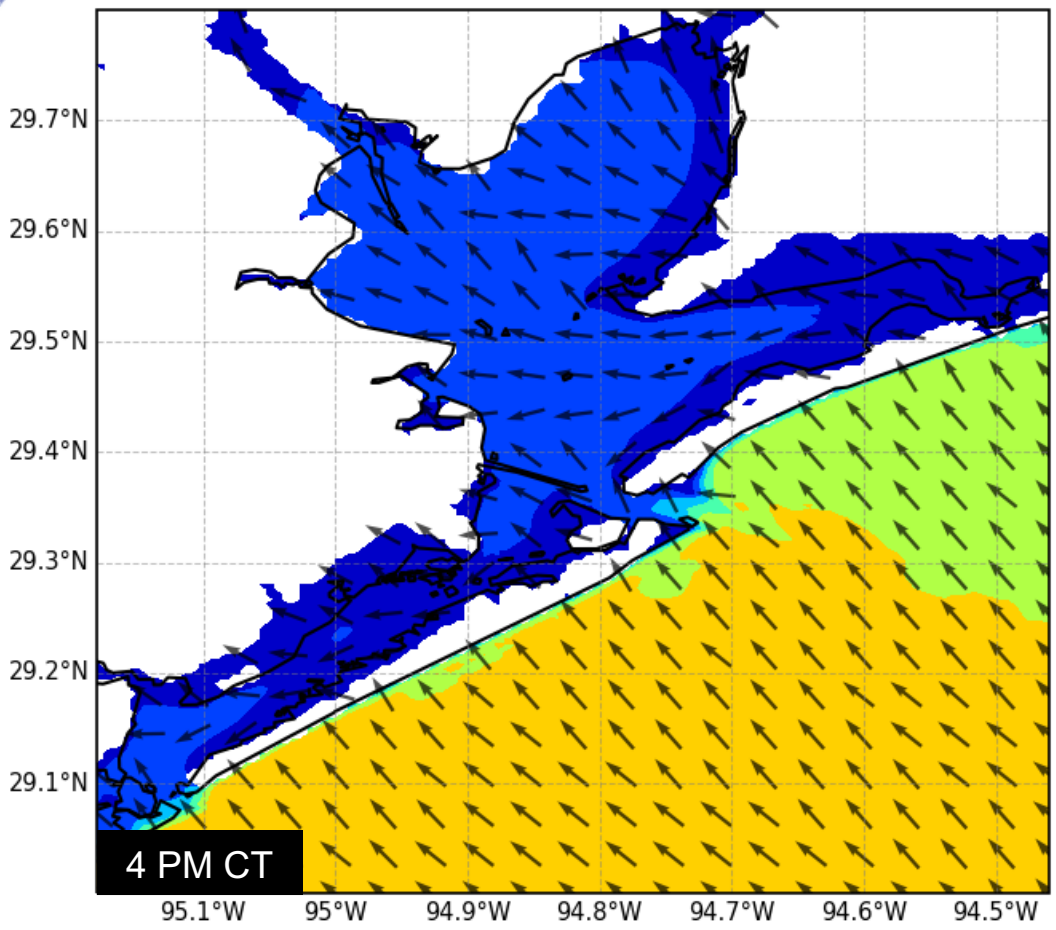
- **Data continues to maintain 6' wave height potential associated with Tropical Storm Harold for the boarding station.** The nearby buoy has already reported some significant wave heights near 6.2 feet in the past couple hours.
- **The timing most at risk to see these increased wave heights would be through 2 PM TUE.** The boarding station is at greatest risk to see these wave heights. **ALL OTHER STATIONS WILL REMAIN WELL BELOW 6' THRESHOLD WITH HIGH CONFIDENCE.**
- **Tropical Storm Harold has made landfall in southern Texas, and will continue to advance westward toward the Rio Grande.**

Houston Pilots Tropical Update

Significant Wave Height 4-Panel



NWPS Significant Wave Height (ft) and Peak Wave Direction
Hour 15 (21Z22AUG2023)



The Images to the left show significant wave heights through the late afternoon today.

Current thinking is the risk of 6' drops off around 2 PM where we will lift the Zulu threshold. As of the latest data, we continue to favor this time range for impacts.

Houston Pilots Visibility Chart (miles)



Forecast Confidence



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

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Houston Pilots Wind Chart



Example

Sustained wind 13 Knots
Gusts 18 Knots
Wind from the N

WS: 13
G:18
N

Time Knots	Tue 12pm	Tue 1pm	Tue 2pm	Tue 3pm	Tue 4pm	Tue 5pm	Tue 6pm	Tue 7pm	Tue 8pm	Tue 9pm	Tue 10pm	Tue 11pm	Wed 12am	Wed 1am	Wed 2am	Wed 3am	Wed 4am	Wed 5am	Wed 6am	Wed 7am	Wed 8am	Wed 9am	Wed 10am	Wed 11am	Wed 12pm	Wed 1pm	Wed 2pm	Wed 3pm	Wed 4pm	Wed 5pm	Wed 6pm	Wed 7pm	Wed 8pm	Wed 9pm	Wed 10pm	Wed 11pm	
610 Bridge	13 19 E	13 20 E	14 21 E	14 21 E	14 22 E	14 22 E	14 21 SE	13 20 SE	12 18 SE	10 15 SE	8 13 SE	7 10 SE	6 9 SE	5 8 SE	5 7 SE	4 6 SE	3 5 SE	2 3 NE	2 3 NNE	2 3 NE	2 3 NE	4 5 ENE	5 7 ENE	5 8 ENE	6 9 E	6 10 E	6 11 E	7 11 E	7 11 E	7 10 SSE	8 9 S	7 8 S	6 7 SSW	5 6 SSW	5 7 SSW		
Kinder 1	13 18 E	13 19 E	14 20 E	14 21 E	14 22 E	14 21 SE	13 20 SE	12 18 SE	10 15 SE	8 12 SE	7 10 SE	6 9 SE	5 8 SE	4 7 SE	4 6 SE	3 5 SE	2 3 NE	2 3 NNE	2 3 NE	2 3 NE	4 5 ENE	5 7 ENE	5 8 ENE	6 9 E	6 10 E	6 11 E	7 11 E	7 10 SSE	8 9 S	7 8 S	6 7 SSW	5 6 SSW	5 7 SSW				
Greens Bayou	13 18 E	13 19 E	14 20 E	14 21 E	14 22 E	14 21 SE	13 20 SE	13 19 SE	11 18 SE	10 15 SE	8 12 SE	7 10 SE	6 9 SE	5 8 SE	4 7 SE	4 6 SE	3 5 SE	2 3 ENE	2 3 NNE	2 3 NNE	3 4 NNE	4 5 NE	5 7 ENE	5 8 ENE	6 9 E	6 10 E	6 11 E	7 11 E	7 10 SSE	8 9 S	7 8 S	6 7 SSW	5 6 SSW	5 7 SSW			
Shell Crude	13 18 E	14 19 E	14 20 E	14 21 E	14 22 E	14 21 SE	13 20 SE	13 19 SE	11 18 SE	10 15 SE	8 12 SE	7 10 SE	6 9 SE	5 8 SE	4 7 SE	4 6 SE	3 5 SE	2 3 ENE	2 3 NNE	2 3 NNE	3 4 NNE	4 5 NE	5 7 ENE	5 8 ENE	6 9 E	6 10 E	6 11 E	7 11 E	7 10 SSE	8 9 S	7 8 S	6 7 SSW	5 6 SSW	5 7 SSW			
Lynchburg Ferries	13 17 E	14 18 E	14 19 E	14 20 E	14 21 E	14 21 SE	13 20 SE	13 19 SE	12 19 SE	10 14 SE	9 12 SE	7 11 SE	6 9 SE	5 8 SE	4 7 SE	4 6 SE	3 5 SE	2 3 ENE	2 3 NNE	2 3 NNE	3 4 NNE	4 5 NE	5 7 ENE	5 8 ENE	6 9 E	6 10 E	6 11 E	7 11 E	7 10 SSE	8 9 S	7 8 S	6 7 SSW	5 6 SSW	5 7 SSW			
Exxon 3	13 17 E	14 18 E	14 19 E	15 20 E	15 21 E	15 21 SE	14 20 SE	14 19 SE	12 19 SE	11 16 SE	9 13 SE	8 11 SE	7 10 SE	6 9 SE	5 8 SE	4 7 SE	3 5 SE	2 3 ENE	2 3 NNE	2 3 NNE	3 4 NNE	4 5 NE	5 7 ENE	5 8 ENE	6 9 E	6 10 E	6 11 E	7 11 E	7 10 SSE	8 9 S	7 8 S	6 7 SSW	5 6 SSW	5 7 SSW			
Morgans Point	14 17 E	14 18 E	15 19 E	16 20 E	16 21 E	16 21 SE	15 20 SE	15 19 SE	13 19 SE	12 16 SE	11 15 SE	10 14 SE	9 13 SE	8 11 SE	7 10 SE	6 9 SE	5 8 SE	4 6 SE	3 5 ENE	3 4 ENE	3 4 ENE	4 5 NE	5 7 ENE	5 8 ENE	6 9 E	6 10 E	6 11 E	7 11 E	7 10 SSE	8 9 S	7 8 S	6 7 SSW	5 6 SSW	5 7 SSW			
75/76	16 18 E	16 19 E	17 20 E	17 21 E	18 22 E	18 21 SE	18 20 SE	17 19 SE	16 18 SE	15 16 SE	13 14 SE	12 13 SE	12 11 SE	11 10 SE	10 9 SE	9 8 SE	8 7 SE	7 6 SE	5 4 ENE	5 4 ENE	5 4 ENE	6 7 NE	6 7 ENE	6 7 ENE	7 8 E	7 8 E	7 8 E	8 9 E	8 9 E	9 10 E	9 10 E	10 11 E	10 11 E	11 12 E	11 12 E	12 13 E	
63/64	18 20 E	18 19 E	18 21 E	18 21 E	18 20 E	18 20 SE	18 19 SE	17 18 SE	16 16 SE	15 15 SE	13 14 SE	13 12 SE	12 11 SE	11 10 SE	10 9 SE	9 8 SE	8 7 SE	7 6 SE	6 5 ENE	6 5 ENE	6 5 ENE	7 8 NE	7 8 ENE	7 8 ENE	8 9 E	8 9 E	8 9 E	9 10 E	9 10 E	10 11 E	10 11 E	11 12 E	11 12 E	12 13 E	12 13 E	13 14 E	
51/52	18 20 E	18 20 E	18 21 E	18 20 E	17 20 E	17 19 SE	17 18 SE	16 17 SE	15 15 SE	14 14 SE	13 13 SE	12 12 SE	11 11 SE	10 9 SE	9 8 SE	8 7 SE	7 6 SE	6 5 ENE	5 4 ENE	5 4 ENE	6 7 NE	6 7 ENE	6 7 ENE	7 8 E	7 8 E	7 8 E	8 9 E	8 9 E	9 10 E	9 10 E	10 11 E	10 11 E	11 12 E	11 12 E	12 13 E	12 13 E	13 14 E
37/38	19 21 E	18 20 E	18 20 E	18 19 E	17 18 E	16 17 SE	16 15 SE	15 14 SE	14 13 SE	13 13 SE	12 12 SE	11 11 SE	10 9 SE	9 8 SE	8 7 SE	7 6 SE	6 5 ENE	5 4 ENE	5 4 ENE	6 7 NE	6 7 ENE	6 7 ENE	7 8 E	7 8 E	7 8 E	8 9 E	8 9 E	9 10 E	9 10 E	10 11 E	10 11 E	11 12 E	11 12 E	12 13 E	12 13 E	13 14 E	
25/26	18 20 E	18 20 E	17 19 E	16 19 E	15 18 E	15 14 SE	14 13 SE	13 13 SE	12 12 SE	11 11 SE	10 10 SE	9 9 SE	8 8 SE	7 7 SE	6 5 SE	5 4 SE	4 3 ENE	3 2 ENE	3 2 ENE	4 5 NE	4 5 ENE	4 5 ENE	5 6 E	5 6 E	5 6 E	6 7 E	6 7 E	6 7 E	7 8 E	7 8 E	8 9 E	8 9 E	9 10 E	9 10 E	10 11 E	10 11 E	11 12 E
11/12	18 20 E	17 20 E	16 19 E	15 18 E	14 17 E	14 15 SE	13 13 SE	13 12 SE	11 11 SE	10 10 SE	9 9 SE	8 8 SE	7 7 SE	6 6 SE	5 5 SE	4 4 SE	3 3 ENE	2 2 ENE	2 2 ENE	3 4 NE	3 4 ENE	3 4 ENE	4 5 E	4 5 E	4 5 E	5 6 E	5 6 E	5 6 E	6 7 E	6 7 E	7 8 E	7 8 E	8 9 E	8 9 E	9 10 E	9 10 E	10 11 E
1 & 2 Bravo	20 22 E	20 21 E	19 21 E	18 20 E	17 18 E	16 17 SE	15 16 SE	14 15 SE	13 14 SE	12 13 SE	11 12 SE	10 11 SE	9 10 SE	8 9 SE	7 8 SE	6 7 SE	5 6 SE	4 5 ENE	3 4 ENE	3 4 ENE	4 5 NE	4 5 ENE	4 5 ENE	5 6 E	5 6 E	5 6 E	6 7 E	6 7 E	7 8 E	7 8 E	8 9 E	8 9 E	9 10 E	9 10 E	10 11 E	10 11 E	11 12 E

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Forecast Discussion

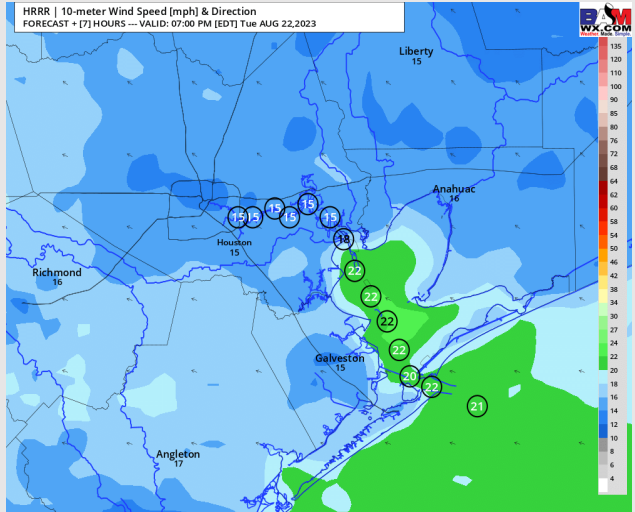
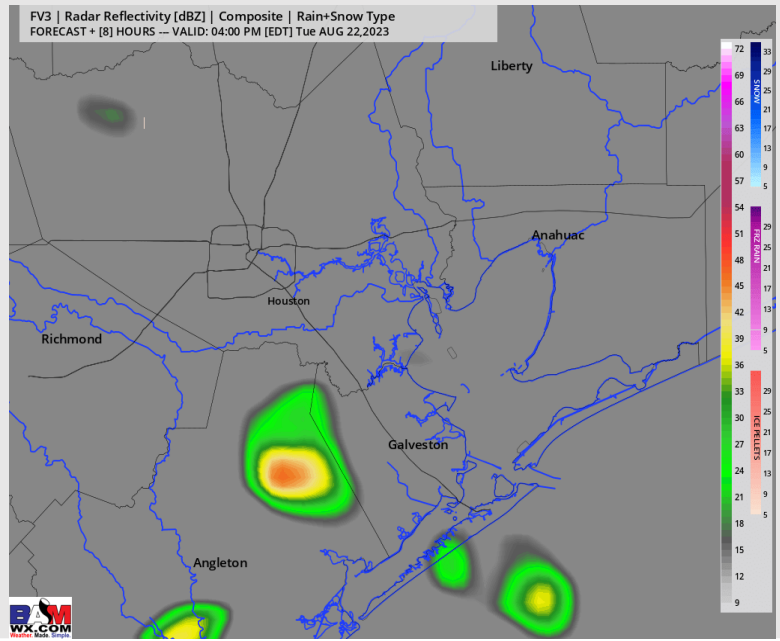
Precip: Scattered Storm Chances of 40% will continue through 5PM, before majority of activity slides more to the south / chances becoming 20% after 5PM for all stations.

Wind: ESE winds continue through the PM hours with sustained winds around 20 – 24 knots for the boarding station with gusts near 25 – 30 knots. For stations between Morgan’s Point and the boarding Station, sustained winds of 15 – 20 knots with gusts up to 25 knots. For locations north of Morgan’s Point, winds will maintain at 9 – 12 knots through 9PM. Winds will steadily weaken to 4-8 knots into the late evening as we lose influence from Harold. By 4 PM, winds south of Morgan’s Point are expected to be sustained around 15 – 18 knots with gusts near 20 knots. By 9 PM, sustained winds at the boarding station are expected to be sustained around 12 – 15 knots with gusts to 18 knots with weaker winds expected north of the boarding station.

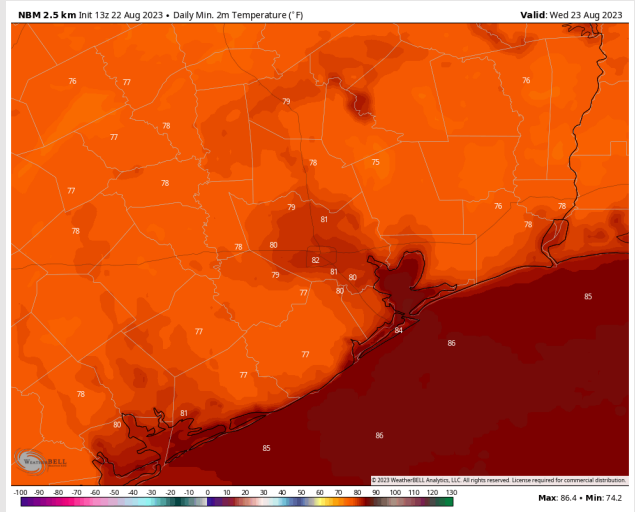
High Temps: Low Temps expected to be in the mid 80’s F over open waters with low temperatures in the lower 80’s / upper 70’s for Wednesday AM.

Visibility: Brief Periods of reduced visibility near the Boarding Station associated with heaviest downpours.

Precip Image: 3 PM CT



Wind Speed:
6 PM CT



Low Temps
Wednesday AM

Houston Pilots: Wed. 8/23/2023



Forecast Discussion

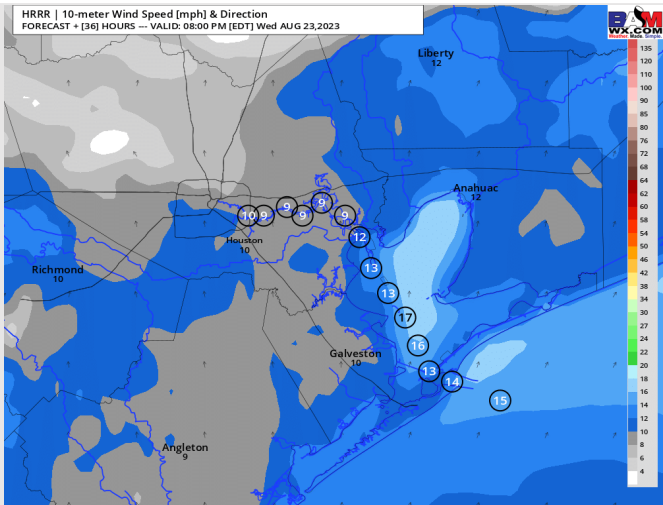
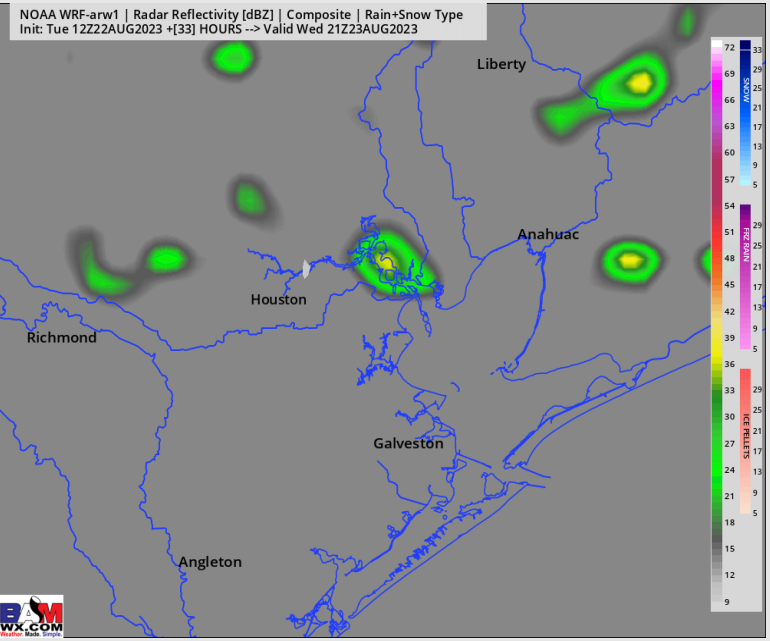
Precip: Mostly dry conditions with isolated (20%) chances during the afternoon and evening from 3 PM – 10 PM.

Wind: For the boarding station, winds will be out of the SE WED before shifting to out of the NE by 8 - 9 AM. After 9AM, winds will gradually veer until out of the S/SW for the rest of the day. Winds N of Morgan’s Point will be 2-7kts through 4 PM before increasing to 5-10kts the rest of the day. S of Morgan’s Point, winds will decrease from 8-13 kts to 2-7kts by 6 AM and remain there until 4 PM. After 4 PM, winds increase to 9-14 knots for the rest of the day.

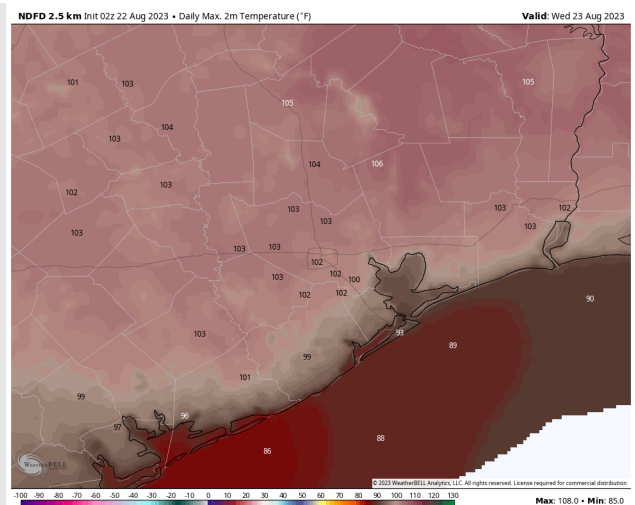
High Temps: S of Morgan’s Point: Low 90s F. N of Morgan’s Point: Upper 90s/Near 100 F.

Visibility: Not anticipating any fog issues at this time.

Precip Image: 4 PM CT



Wind Speed:
7 PM CT



High Temps
Wednesday

Forecast Discussion

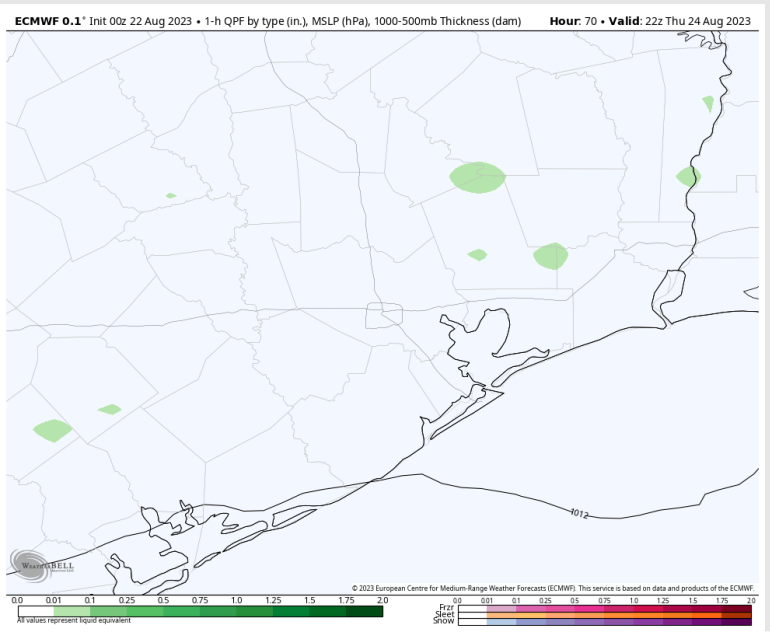
Precip: Dry conditions anticipated on Thursday with only a mention of something isolated in the afternoon (10%)

Wind: Winds will start out of the W/SW in the early morning before veering to out of the NW by 6-7 AM. After 1 PM, winds will gradually shift to being out of the SW by 5 PM and continue there the rest of the evening. Winds North of Morgan's Point will be 3-8 kts the entire day. Winds South of Morgan's Point will be 7-12 kts throughout the entire day outside of a slight decrease to 4-9kts from 11 AM – 3 PM.

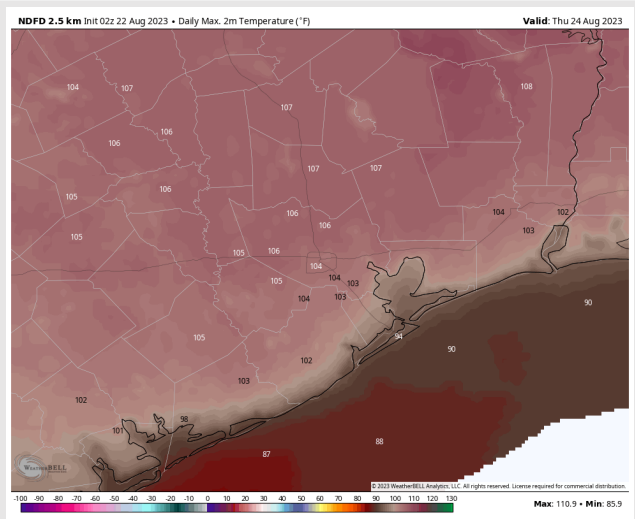
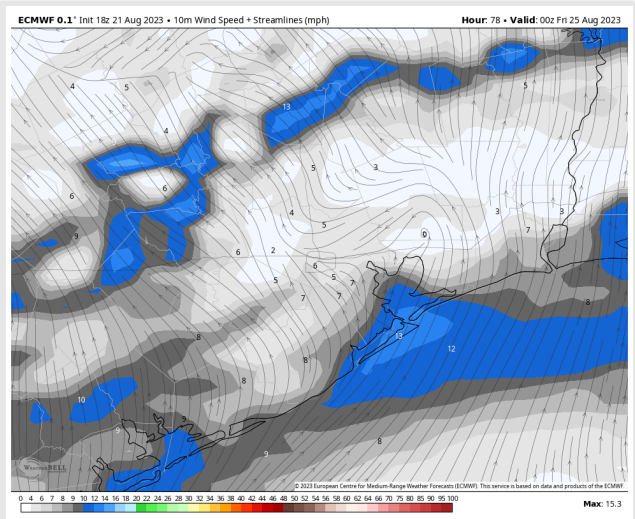
Low Temps: S of Morgan's Point: Low 90's F. N of Morgan's Point: Low 100s F.

Visibility: No visibility issues expected on Thursday.

Precip Image: 5 PM CT

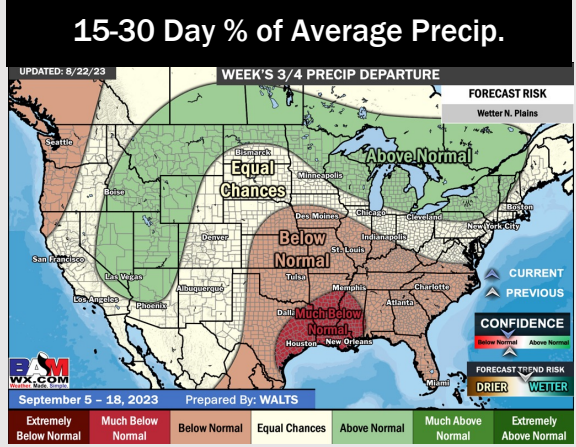
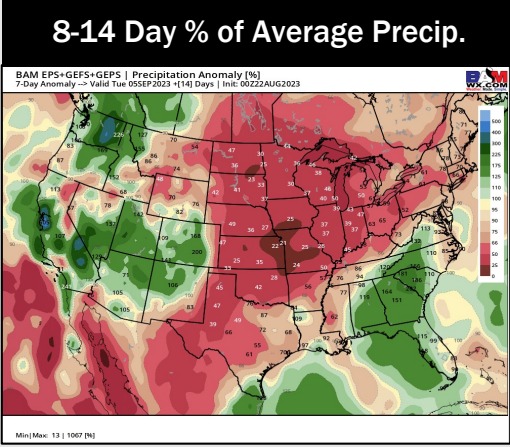
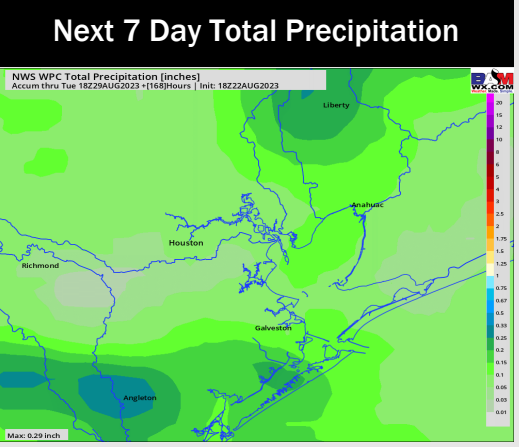
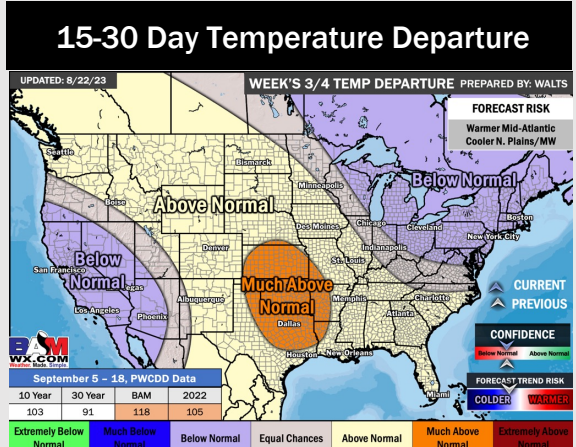
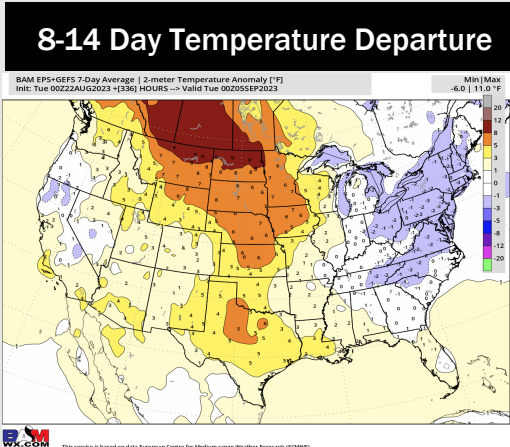
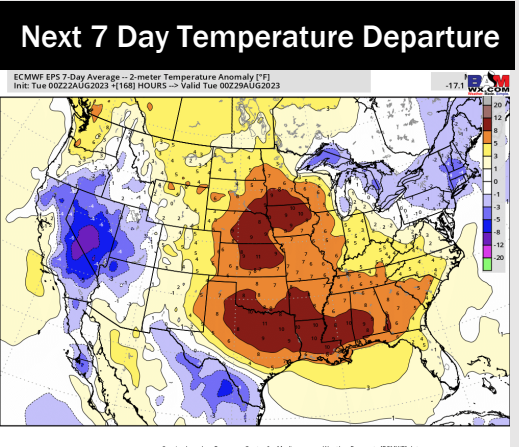


Wind Speed:
7 PM CT



High Temps
Thursday

Houston Pilots: 8/22/23



- Today will be the best day for precipitation upcoming with some additional minor chances later this week. Expect temperatures to continue to remain above normal.
- Expecting below normal precipitation chances and above normal temperatures for the week 2 timeframe.
- Above normal temperatures and below normal chances for precipitation are favored in the weeks 3/4 timeframe.