

# Houston Pilots Forecast Package



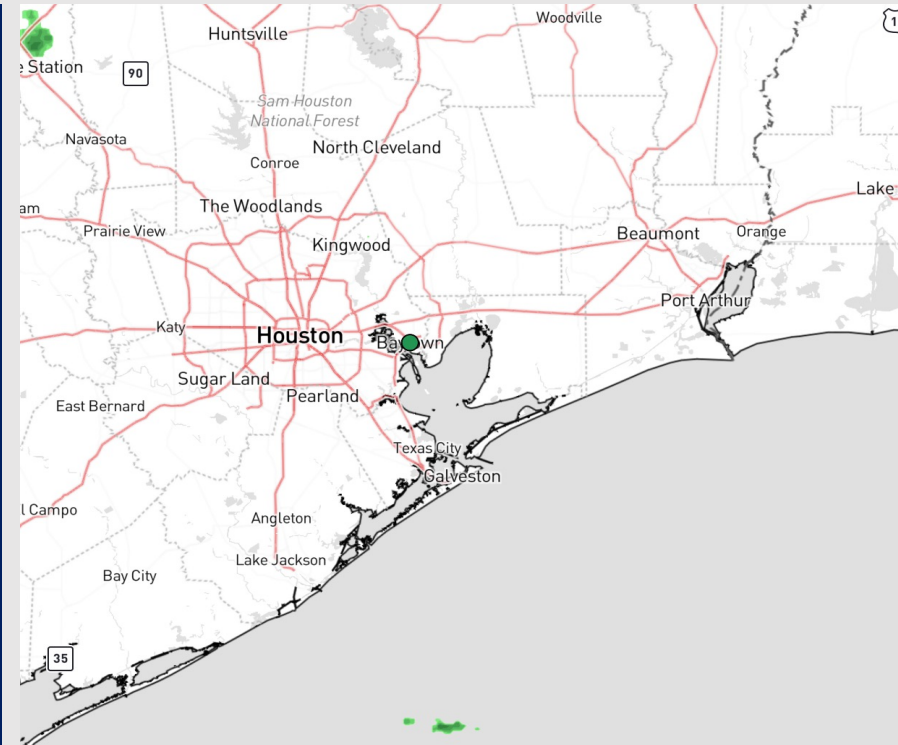
Updated: 9:10 PM CT

Thursday, December 21, 2023

Forecaster: Tyler Riggles

## Weather Headlines

- While confidence is quite low at this time due to lack of sufficient model data displaying “low visibilities”, currently favoring a low-end risk for reduced visibilities due to fog/low-cloud deck. **Check Day 1 slide for more details. No additional visibility report slide due to lack of sufficient model outputs.**
- Winds do not look to be overly problematic the next few days aside from briefly stronger winds late Saturday. Would need to watch SUN for elevated winds as a front approaches the area.
- Active weather is anticipated from SAT PM into SUN PM.



**Radar/NWS Alerts: 9:10 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 Extended Range Visibility Report



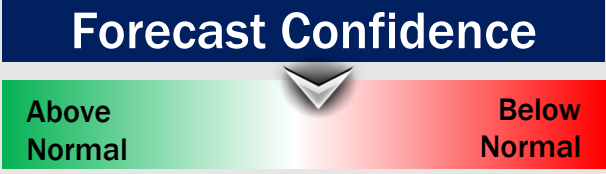
## Sunday 12/24/23

Fog will once again be possible on Sunday but timing of pockets of heavy rain can complicate matters. Regardless, set up is there for potential sea fog. SUN AM holds the best potential.



## Monday 12/25/23

Pending on how much rain falls, some pockets of fog cannot be fully ruled out despite a shift to more northerly winds. Threat on Monday is not as great as SAT/SUN.



## Tues 12/26/23

A shift back to winds from the NW/N will limit fog potential throughout the day Tuesday.



## Chance for Fog

Sunday AM	Possible
Sunday PM	Possible
Monday AM	Possible
Monday PM	Unlikely
Tuesday AM	Unlikely
Tuesday PM	Unlikely

# Houston Pilots Visibility Chart (miles)



## Forecast Confidence



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

**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



## Example

Sustained wind 13 Knots  
Gusts 18 Knots  
Wind from the N

**WS: 13  
G:18  
N**

Time Knots	Thu 8pm	Thu 9pm	Thu 10pm	Thu 11pm	Fri 12am	Fri 1am	Fri 2am	Fri 3am	Fri 4am	Fri 5am	Fri 6am	Fri 7am	Fri 8am	Fri 9am	Fri 10am	Fri 11am	Fri 12pm	Fri 1pm	Fri 2pm	Fri 3pm	Fri 4pm	Fri 5pm	Fri 6pm	Fri 7pm	Fri 8pm	Fri 9pm	Fri 10pm	Fri 11pm	Sat 12am	Sat 1am	Sat 2am	Sat 3am	Sat 4am	Sat 5am	Sat 6am	Sat 7am			
610 Bridge	4	4	3	3	2	2	3	2	3	3	3	3	3	5	5	6	5	5	6	6	6	6	6	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	
Kinder 1	4	4	3	3	2	2	3	2	3	3	3	3	3	5	5	6	5	5	6	6	6	6	6	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	
Greens Bayou	4	3	3	2	2	2	2	3	3	3	3	2	3	5	6	6	6	6	6	6	6	6	6	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	
Shell Crude	4	3	3	2	2	2	2	3	3	4	3	3	3	5	6	6	6	6	6	6	7	6	6	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	
Lynchburg Ferries	4	2	2	2	1	2	3	2	3	4	3	2	3	5	6	6	6	6	6	7	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	
Exxon 3	4	1	3	2	1	2	3	2	3	4	3	3	3	6	6	6	6	6	6	7	7	7	7	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Morgans Point	4	2	3	3	2	3	4	3	4	5	5	4	4	6	5	7	6	7	7	8	8	8	8	7	7	6	6	6	6	6	6	6	5	6	5	6	6	6	
75/76	4	2	4	3	3	4	5	5	5	6	7	6	6	5	4	7	7	7	8	9	9	9	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
63/64	5	3	4	4	4	5	6	7	7	8	7	7	7	6	5	8	7	7	8	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
51/52	7	5	6	5	5	6	8	7	7	8	8	7	7	7	8	8	8	8	8	9	9	9	9	8	8	7	6	7	6	6	7	7	7	7	7	7	8	8	
37/38	7	5	7	6	6	5	6	7	6	7	8	7	7	7	7	9	8	8	8	9	9	9	8	8	7	6	6	6	6	6	6	6	6	6	6	7	7	8	
25/26	6	6	8	7	6	5	6	6	6	7	7	7	6	7	7	9	8	8	8	8	8	8	8	7	7	6	5	6	6	6	6	6	6	6	6	6	7	7	
11/12	6	10	10	8	8	6	7	7	7	8	8	7	6	7	7	9	8	8	8	8	8	8	8	8	7	7	6	6	6	7	7	7	7	7	7	7	7	8	
1 & 2 Bravo	13	13	12	11	10	8	8	10	10	9	10	10	9	8	7	9	9	8	8	8	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	8	8	8	9

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## Forecast Discussion

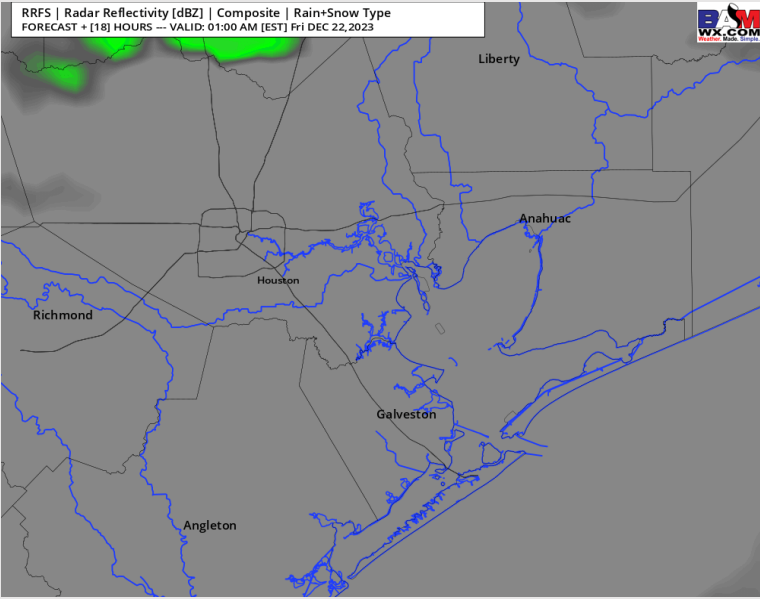
**Precip:** Currently favoring a dry day today. We will need to watch near midnight for minor chances of drizzle, but any rain should hold off until FRI.

**Wind:** ESE winds continue for the remainder of the day. **N of Morgan's Point:** Winds are favored to remain at 3 – 8 kts for duration of the day. **S of Morgan's Point:** Winds will weaken slowly into late afternoon becoming sustained around 8 – 13 knots by 7 PM. Gusts near 15 – 20 knots will be possible in the afternoon for furthest most S Stations and the Boarding station.

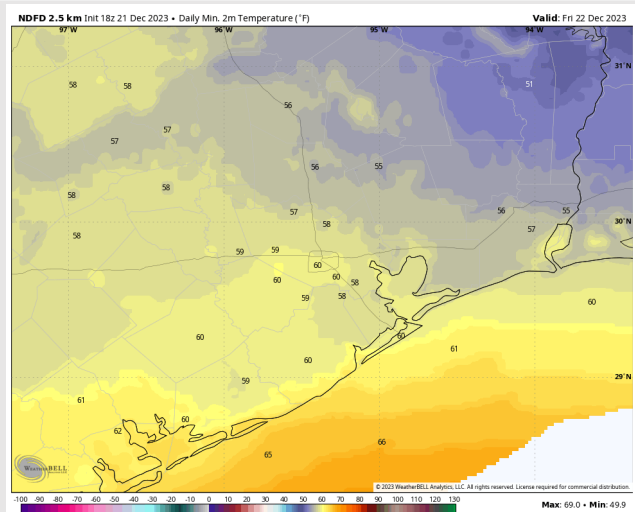
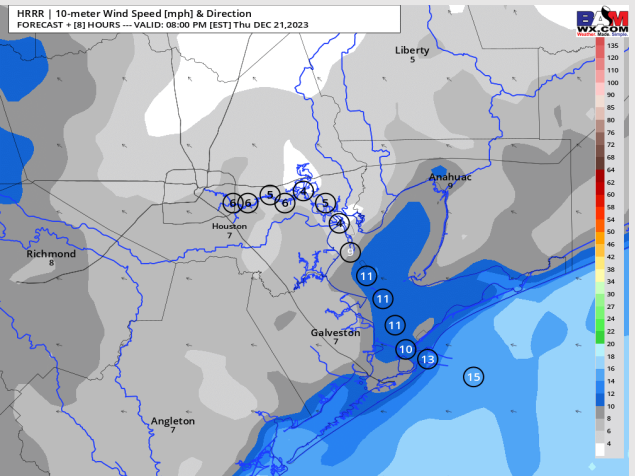
**High Temps:** **N of Morgan's Point:** Upper 50's F. **S of Morgan's Point:** 55 – 60 F

**Visibility:** Confidence remains quite low on any potential sea fog for tomorrow AM. Most data continues to not show the "low visibilities". Differences between air and sea surface temperatures and veering vertical wind profiles will likely be limiting factors for fog. However, data values continue to show a borderline setup. With a somewhat similar set up to yesterday and with available data as of writing this special report, would currently favor a low-end risk for reduced visibilities of 4-6 miles due to fog/low cloud deck between 3-9 AM FRI for Stations N of 51/52.

## Precip Image: 12 AM CT



Wind Speed:  
7 PM CT



Low Temps  
Thursday



## Forecast Discussion

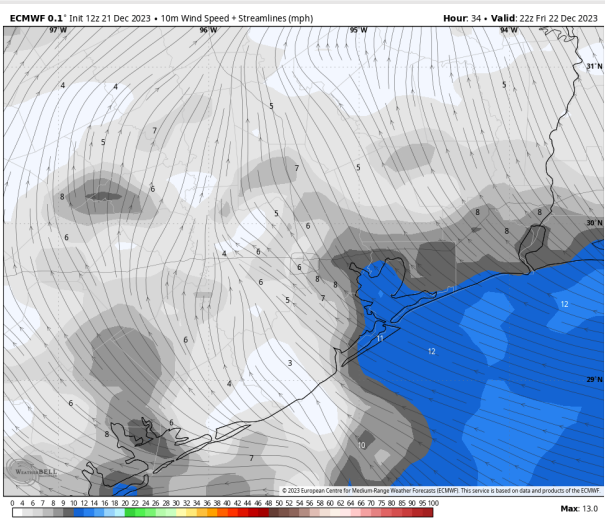
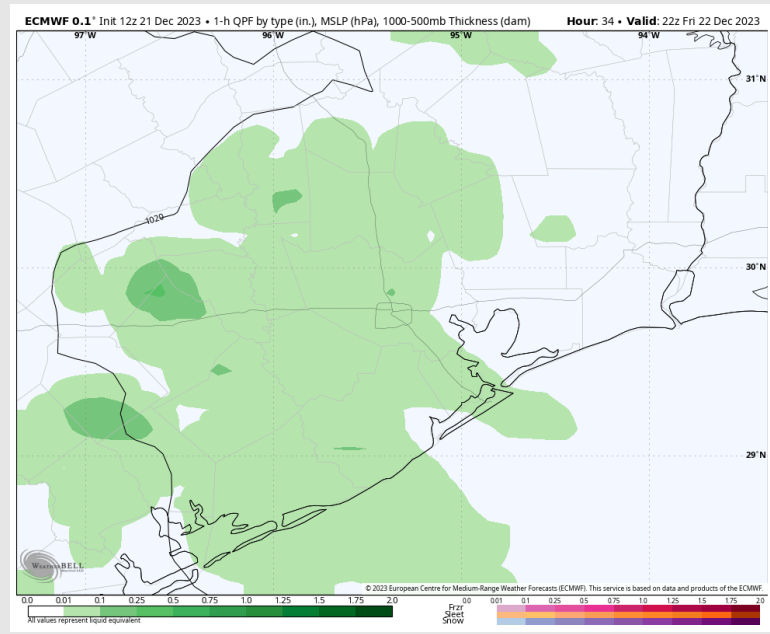
**Precip:** Spotty rain chances will be possible in the AM (20%). Better threats come after 2 – 3 PM for showers with a few moderate bursts (40%). In a scattered fashion, chances will linger through the evening, although some details on precise timing remain uncertain.

**Wind:** Sustained winds will be out of the SE throughout the day Friday. **N Morgan's Point:** 4 - 8 kts throughout much of the day Friday. **S of Morgan's Point:** Winds will generally be around 8 – 13 knots for much of the day. A few wind gusts of 14 – 17 knots will be possible in the afternoon hours.

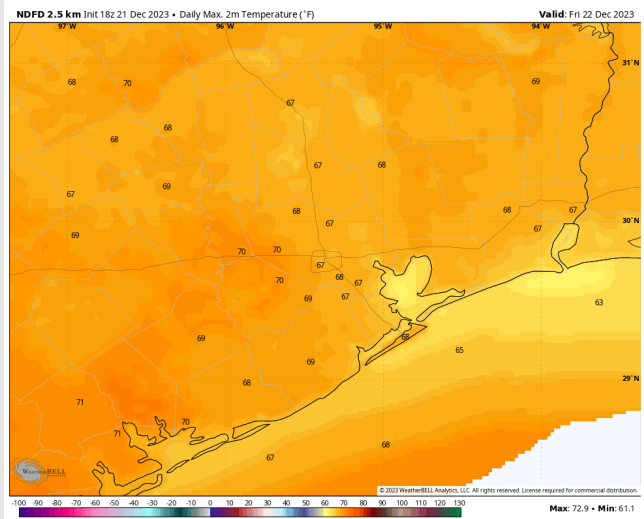
**High Temps:** **N of Morgan's Point:** High 60s to 70s F **S of Morgan's Point:** Mid 60s F

**Visibility:** More discussion about fog FRI night into SAT AM on the following slide. It is worth noting that timing of showers complicate any potential fog as it can help to allow for rain vs straight fog.

## Precip Image: 4 PM CT



**Wind Speed:  
4 PM CT**



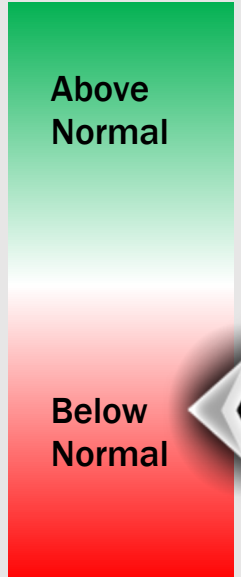
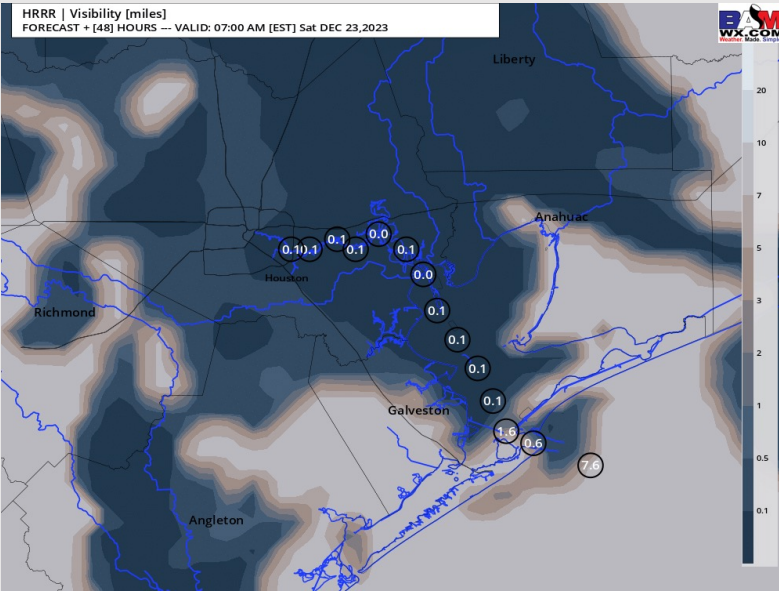
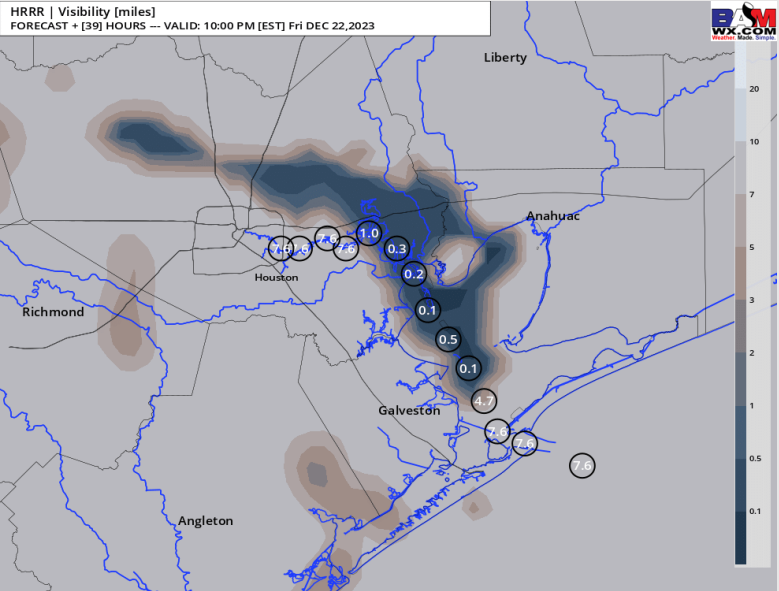
**High Temps  
Friday**

# Houston Pilots Visibility Report



## 9 PM CT FRI VISIBILITY      6 AM CT SAT VISIBILITY

## Confidence



TIMEFRAME DISCUSSED	THREAT
3 PM FRI - 12 PM SAT	<b>MED</b>

- We need to watch FRI evening into SAT AM for Sea Fog Potential.
- A spotty, nonzero risk after 3 PM FRI for fog for stations between Morgan's Point and the Boarding Station (very low confidence)
- The threat will be on the increase into the evening, especially after 7 PM FRI. After 12 AM SAT through 10 AM will hold the highest threat/risk for all stations. Patchy Sea Fog can linger thereafter but approaching rain/ storms greatly complicate matters/ reduce sea fog threat.
- The set up into SAT AM is certainly better vs last night and tonight. Confidence is lower on precise details at this distance however.

# Houston Pilots: Sat. 12/23/2023



## Forecast Discussion

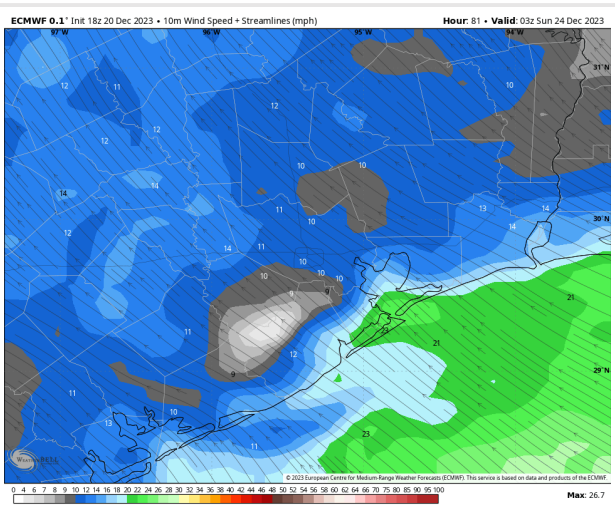
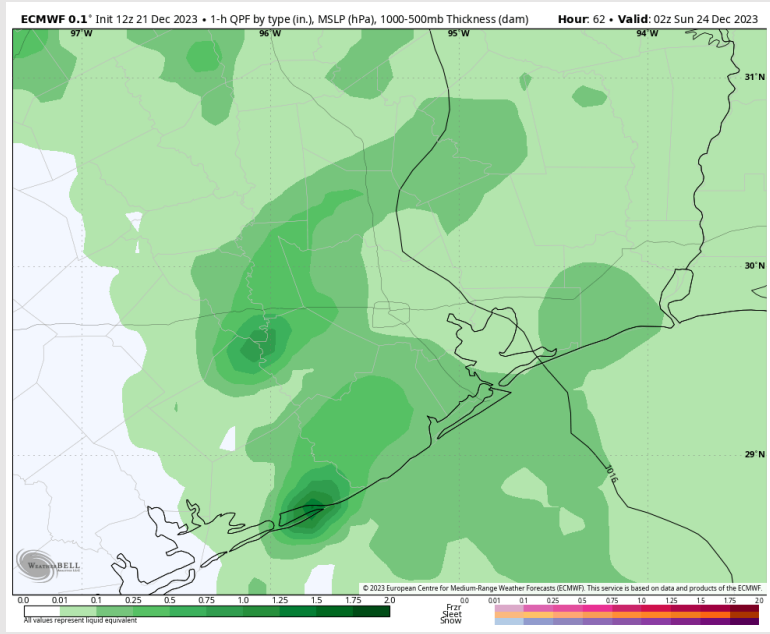
**Precip:** Scattered showers will continue to be possible in the AM. However, it is into the afternoon, especially after 5 PM where storms and heavier pockets of rain come into the picture. Once again, confidence is lower than desired on precise details

**Wind:** Winds will be out of the SE/ESE throughout the day. **N of Morgan's Point:** Winds will start out at 5 - 10 kts before increasing to 9 - 14 kts by after 7 PM. Stronger winds possible under storms. **S of Morgan's Point:** Winds will start out around 8 - 13 knots before sustained winds increase to around 13 - 17 knots after 4 PM. **Winds gusts of 20 - 25 kts will be possible after 6PM for stations S of Morgan's Point. Stronger wind gusts cannot be ruled out under storms**

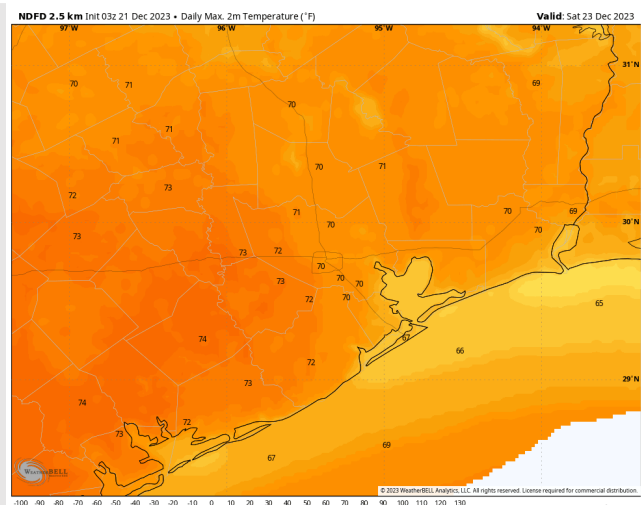
**High Temps:** **N of Morgan's Point:** Low 70's F. **S of Morgan's Point:** mid 60's F.

**Visibility:** The set up for sea fog will continue into Saturday, especially in the AM (info on previous slide) and heading into the evening. The large complicating factor to sea fog will be storms around the area. However, where there are breaks in storm, instances of sea fog cannot be ruled out.

## Precip Image: 8 PM CT



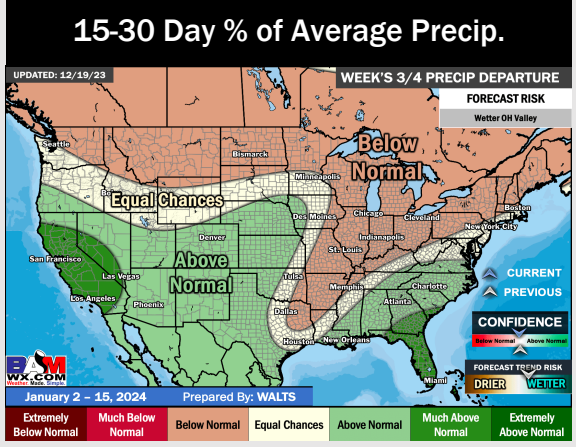
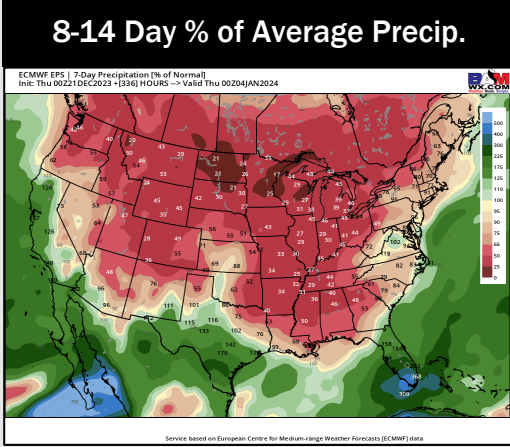
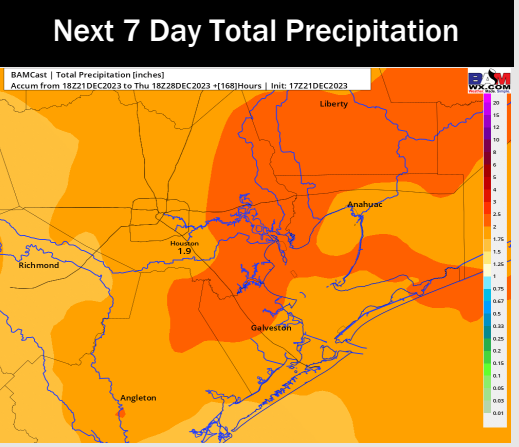
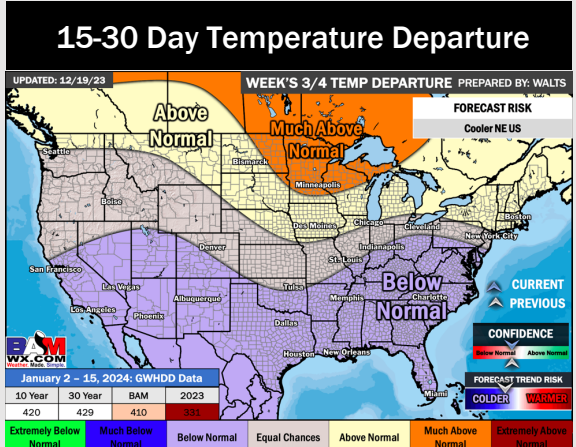
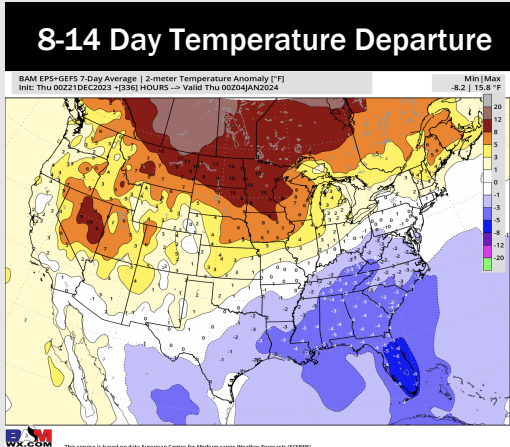
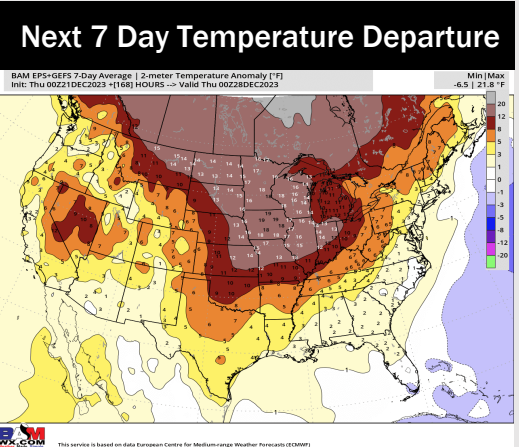
Wind Speed:  
9 PM CT



High Temps  
Saturday



# Houston Pilots: 12/21/23



- SAT evening through SUN PM will offer up widespread, and at times heavy, rainfall opportunities. Above normal temperatures are expected until colder air fill behind a cold front after Monday.
- Cooler temperatures and above normal moisture chances are at play for the week 2 timeframe.
- Below normal temperatures and near normal chances for precipitation are favored in the weeks 3/4 timeframe. There is a risk this can trend wetter given an active subtropical jet.