

Houston Pilots Forecast Package



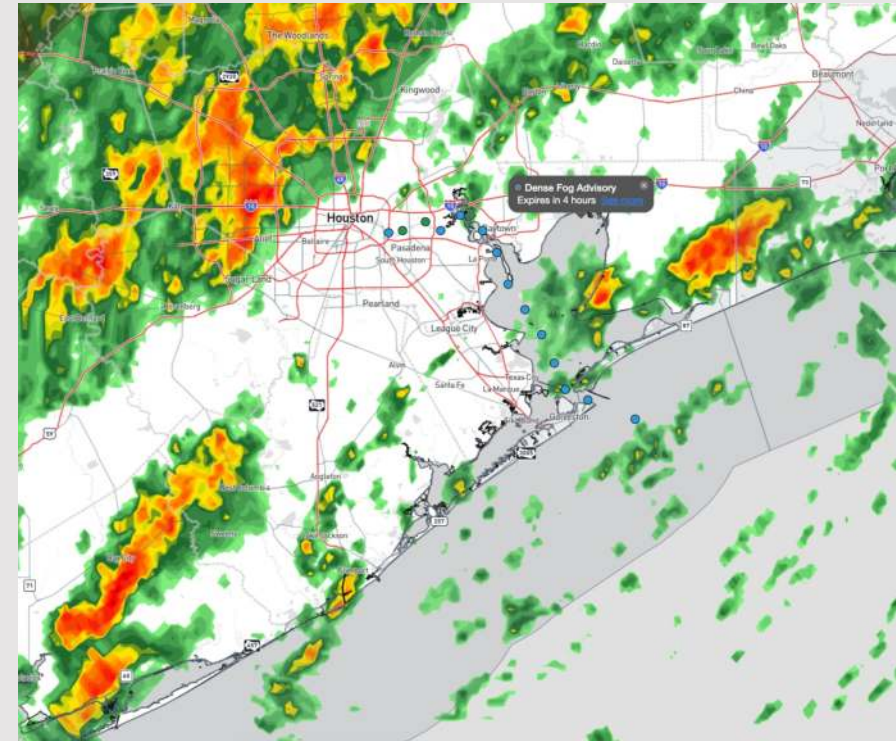
Updated: 2:15 AM CT

Wednesday, January 24, 2024

Forecaster: John Kemper

Weather Headlines

- Thunderstorm coverage will continue to increase, with low end risk for strong to severe storms through 8AM.
- Winds generally stay rather light under 15 knots over the next 72 hours outside of storm induced gusts.
- Sea fog threats continuing into Thursday morning, often times mixing with rain. Lower confidence exists for exact coverage into Thursday. Please see visibility slides for more info.



Radar/NWS Alerts: 2:08 AM CT

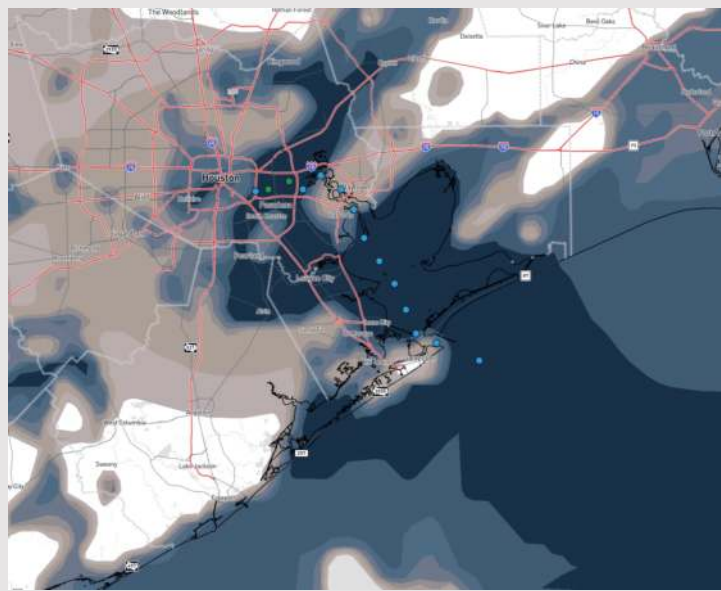


As always, please do not hesitate to reach out to us with any forecast questions via the chat option on the Weather Porthole or our on-call number, **(317)-560-8122** press 1 for forecast questions.

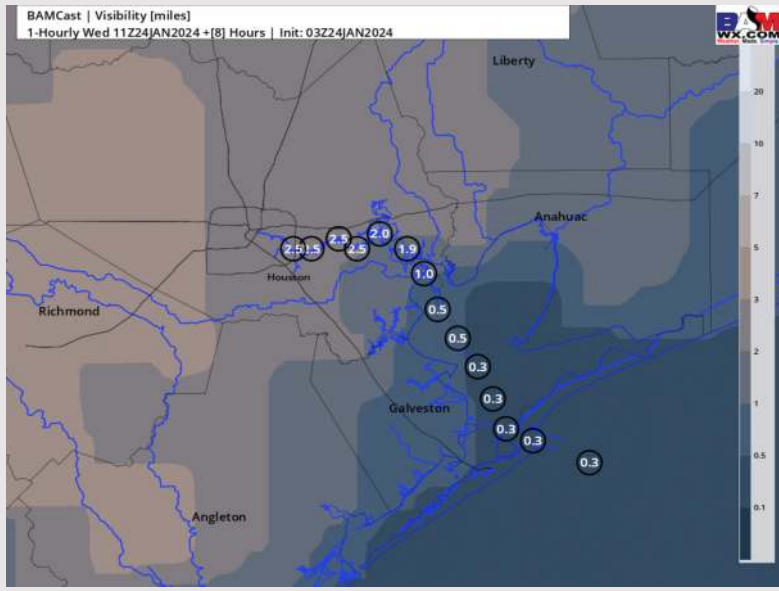
Houston Pilots Visibility Report



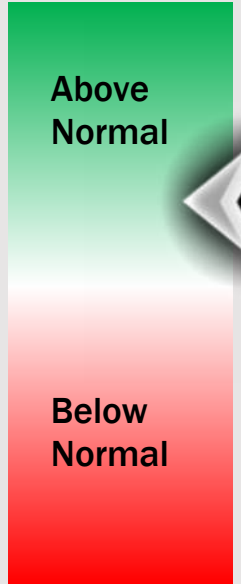
Current Visibility as of 1:15AM-CT



4 AM CT Visibility



Confidence



TIMEFRAME DISCUSSED	THREAT
Now - 12 PM WED	High

- Widespread dense fog of less than 1 mile will continue through 4AM-CT for ALL Stations.
- **North of Morgan's Point:** After 4AM, fog will be patchier in nature with visibility remaining within 1-3 miles as thunderstorms begin to work through the region. Heavier downpours will keep visibility within that range.
- **South of Morgan's Point:** After 4AM, due to consistent flow of winds from the SSE, dense fog of less than 1 miles is favored until arrival of thunderstorms around ~5AM. Reduced visibilities of 1-2 miles will continue to be favored as thunderstorms roll through the area, with boarding station at risk to see visibilities locally less than a mile. Storms are favored to become more scattered after 8AM.
- For the remainder of the AM hours, a weak front is favored to shift winds from the SE to out of the NW, which will eliminate the sea fog threat. Lower confidence on the exact timing but favoring this to occur shortly after 8AM. Given drizzle potential and additional showers and storms, visibilities of 2-4 miles will continue to be favored for this period, but we are likely not looking at additional dense fog for the late morning.

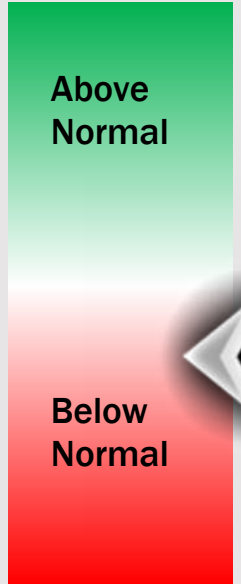
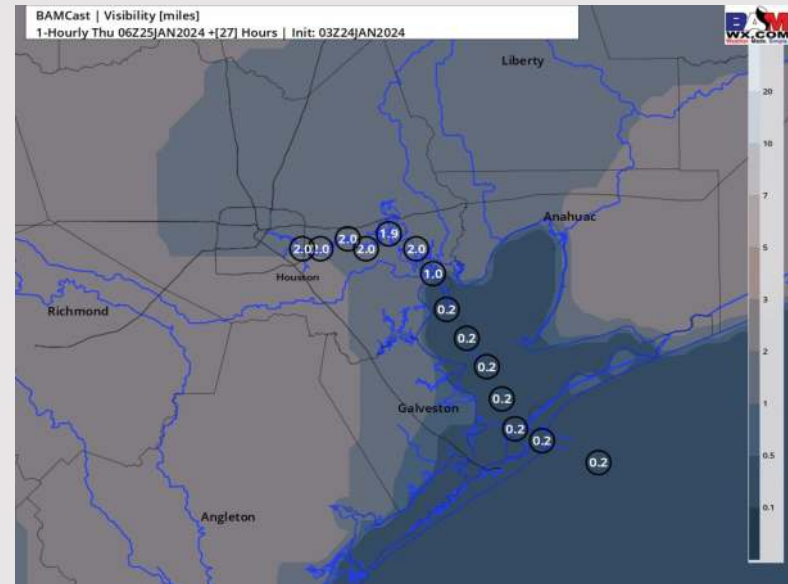
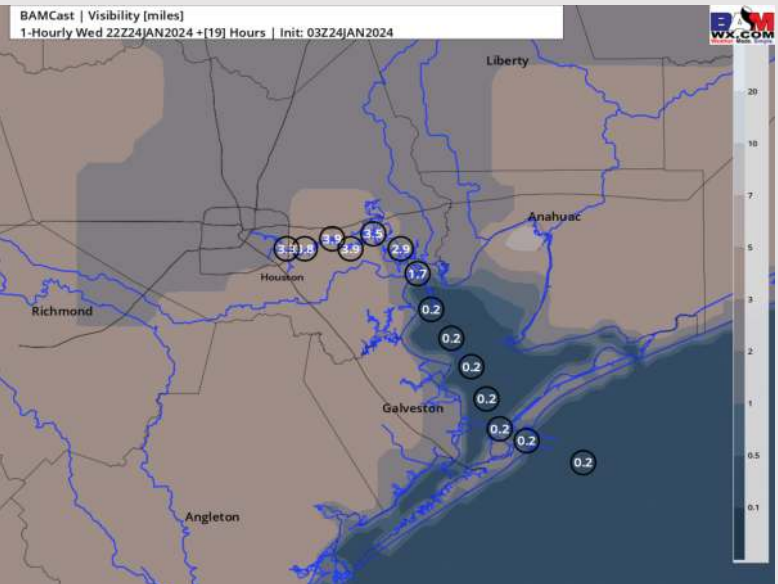
Houston Pilots Visibility Report



4 PM CT WED Visibility

12 AM CT THU Visibility

Confidence



TIMEFRAME DISCUSSED	THREAT
12 PM WED – 6 AM THU	High

- Favoring into the 3-5 PM timeframe for fog to work back in to stations S of Exxon Station as southeasterly winds reestablish themselves. Lower confidence exists on when these winds can fully shift to the southeast, which keeps the exact timing and duration of the return of sea fog in question. Visibilities of less than a mile will be likely.
- Fog risks for stations N of Exxon Station will likely not materialize until after 12AM-CT when visibilities of less than 1 mile will gradually begin to be possible, but favoring this to be patchier in nature as another weak front pushes in from the northwest.
- Favoring fog potential for all stations to gradually end by 6AM, especially for locations S of Exxon station as sea fog is "cut off" but northwesterly winds.
- The risks to the forecast is if storms can arrive earlier, this would end fog risks for all location. Current timing of storms is between 5 – 8AM for all stations.

Houston Pilots Extended Range Visibility Report



Saturday 1/27/24

Monitoring potential for patchy to widespread fog, especially during the AM hours on Saturday. If front can push through quicker, this will eliminate the risk.



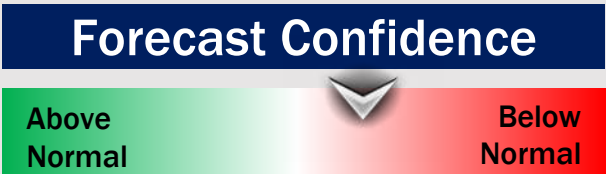
Monday 1/29/24

No visibility concerns favored for Monday.



Sunday 1/28/24

No visibility concerns favored for Sunday.



Chance for Fog

Saturday AM	Possible
Saturday PM	Low-End
Sunday AM	Unlikely
Sunday PM	Unlikely
Monday AM	Unlikely
Monday PM	Unlikely

Houston Pilots Visibility Chart (miles)



Time	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	Thu 12am	Thu 1am	Thu 2am	Thu 3am	Thu 4am	Thu 5am	Thu 6am	Thu 7am	Thu 8am	Thu 9am	Thu 10am	Thu 11am		
610 Bridge	5	2	2	3	2	3	5	4	3	3	3	2	3	3	3	4	4	3	3	3	3	3	2	2	2	2	1	1	0.84	0.37	0.24	0.24	0.16	0.48	4	7		
Kinder 1	5	2	2	3	2	3	5	4	3	3	3	2	3	3	3	4	4	3	3	3	3	3	2	2	2	4	3	3	1	2	2	2	2	2	2	5	7	
Greens Bayou	5	2	2	3	2	3	5	4	3	3	3	2	3	3	3	4	4	3	3	3	3	3	2	2	2	5	5	5	2	4	4	4	4	4	4	6	8	
Shell Crude	5	1	2	3	2	3	5	4	3	3	3	2	3	3	3	4	4	3	3	3	3	3	2	2	2	6	8	8	3	6	8	7	8	8	8	8	8	
Lynchburg Ferries	4	1	1	3	2	3	5	4	3	3	3	2	3	3	3	4	4	3	3	3	3	3	2	2	2	6	8	8	3	6	8	7	8	8	8	8	8	
Exxon 3	4	1	1	3	2	3	5	4	3	3	3	2	3	3	3	4	4	3	3	3	3	3	2	2	2	6	8	8	3	6	8	7	8	8	8	8	8	
Morgans Point	4	1	1	3	2	3	5	4	3	3	3	2	3	4	3	4	4	3	3	3	3	3	2	2	2	6	8	8	5	7	8	7	8	8	8	8	8	
75/76	4	1	1	3	1	3	5	4	3	3	3	2	3	4	3	4	4	3	3	3	3	3	2	2	2	6	8	8	6	7	8	7	8	8	8	8	8	
63/64	4	1	0.77	2	1	3	5	4	3	3	3	2	3	4	4	4	4	3	3	3	3	3	2	2	2	6	8	8	6	8	8	7	8	8	8	8	8	
51/52	0.81	0.51	0.46	0.46	0.89	1	2	3	2	2	3	2	3	4	4	4	4	3	3	3	3	3	2	2	2	5	8	8	6	8	8	6	8	7	7	7	8	
37/38	0.53	0.25	0.29	0.29	0.29	0.72	2	2	1	2	2	2	3	4	4	4	3	3	2	2	2	2	2	2	2	4	6	8	7	8	8	7	7	6	6	6	8	
25/26	0.39	0.25	0.29	0.29	0.29	0.53	1	1	1	2	2	2	3	4	4	4	3	2	2	2	2	2	2	2	2	5	8	8	8	8	8	8	8	8	7	6	8	
11/12	0.29	0.25	0.29	0.29	0.29	0.53	0.77	1	1	2	2	3	3	4	4	4	3	2	2	2	2	2	2	2	0.76	0.48	1	3	6	8	8	8	8	8	8	7	6	6
1 & 2 Bravo	0.29	0.25	0.29	0.29	0.29	0.53	0.77	1	1	2	2	3	3	4	4	4	3	2	2	2	2	2	2	1	0.4	0.4	0.58	0.58	3	7	8	8	8	8	7	6	5	4

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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	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	Thu 12am	Thu 1am	Thu 2am	Thu 3am	Thu 4am	Thu 5am	Thu 6am	Thu 7am	Thu 8am	Thu 9am	Thu 10am	Thu 11am	
610 Bridge	3	2	2	4	4	5	4	4	4	5	4	4	5	5	6	5	5	5	4	4	4	4	4	4	4	5	5	5	5	6	5	5	4	5	5	6	6
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Kinder 1	3	3	2	4	4	5	4	4	4	5	4	4	5	5	6	5	5	4	4	4	4	3	4	4	5	5	5	5	6	5	5	5	5	5	5	6	6
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Greens Bayou	3	3	2	4	4	5	4	4	4	5	4	4	5	5	5	5	5	4	4	4	4	3	4	4	5	5	5	5	5	5	5	5	5	5	5	6	6
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Shell Crude	3	3	2	3	4	5	4	4	4	5	4	4	5	5	5	5	5	4	4	3	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	6	6
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Lynchburg Ferries	4	3	3	4	5	5	5	4	5	5	5	5	5	5	5	5	5	5	4	5	4	5	3	4	4	5	5	5	5	5	5	5	5	5	5	6	6
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Exxon 3	4	3	3	4	5	5	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	5	5	5	6	6	6	6	5	5	6	6	7	
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Morgans Point	5	4	4	4	5	6	6	5	6	6	5	5	5	5	5	6	6	6	6	5	5	4	5	5	5	5	5	6	6	6	6	6	6	6	6	7	
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75/76	6	5	5	6	7	8	8	7	8	7	7	7	7	8	8	9	9	9	8	8	7	7	6	7	6	7	7	8	8	8	8	8	8	8	8	9	
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11/12	6	6	5	6	6	7	7	7	7	7	7	6	7	7	6	6	6	6	6	5	5	6	6	6	6	5	6	6	7	6	6	6	6	6	7		
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1 & 2 Bravo	8	8	8	9	9	10	9	8	9	7	8	7	8	7	7	6	7	7	8	7	7	7	7	8	8	8	7	8	8	8	8	8	8	8	8	8	
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Forecast Discussion

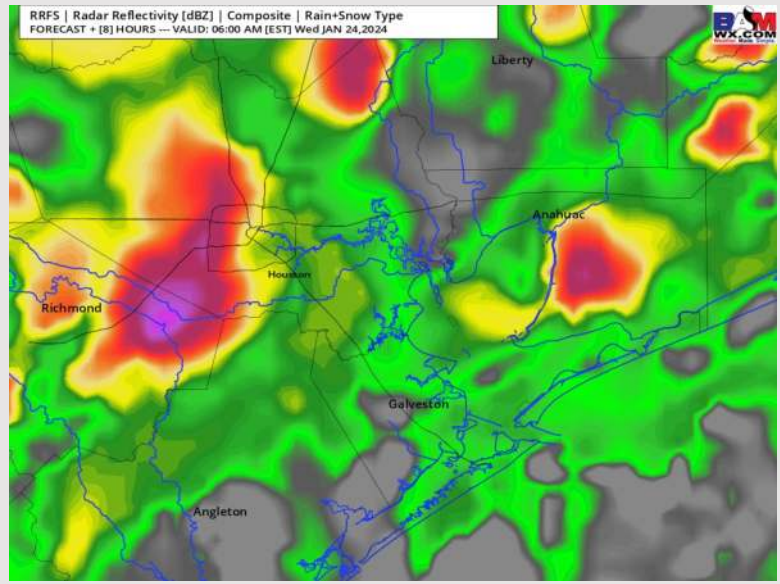
Precip: Scattered showers will continue across the area, with scattered storms to move in just after 4AM, with greatest widespread coverage (90% chance) after 5AM through at least 8AM. All storms during this period will have a **low-end risk for strong to severe risks, with large hail and gusty winds of up 40 - 50 kts.** After 8 AM coverage will become more hit/miss to scattered (40 -60%) for the remaining AM hours. 30% chance of scattered storms and showers for the remainder of afternoon.

Wind: Winds will variable in direction throughout the day. Outside of thunderstorm gust potential, **N Morgan's Point:** Winds will be 2-7 kts throughout the day. **S of Morgan's Point:** Winds at 7-12 kts in the early AM will decrease to 4-9 kts by 12 PM. Winds will increase back to 7 - 12 kts after 8PM. Winds at the Boarding Station will remain slightly higher at 5-10 kts for the entire day.

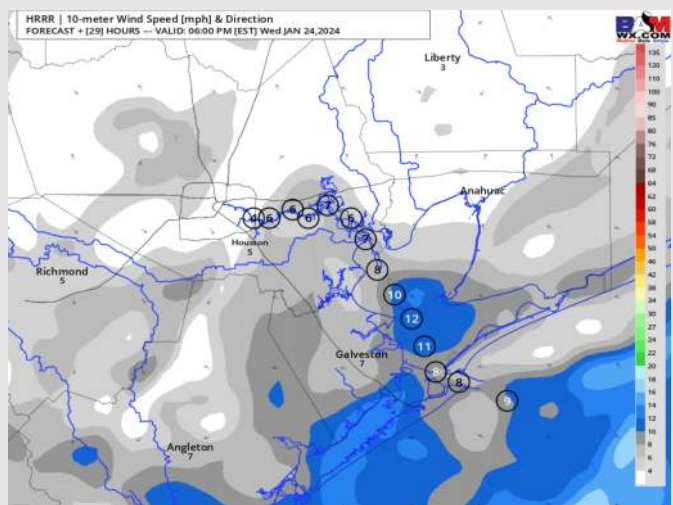
High Temps: **N of Morgan's Point:** Upper 60s F. **S of Morgan's Point:** Lower 60s F

Visibility: Due to the continued moisture tap from the south with a lack of low-level winds, dense fog will likely be at play, especially south of Morgan's Point into the mid AM hours of Wednesday. Visibility likely continues to remain less than 3 mi.

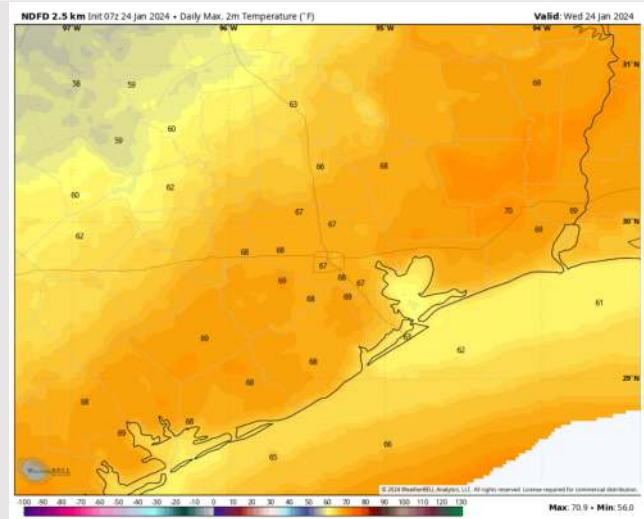
Precip Image: ~5:30 AM CT



Wind Speed:
5 PM CT



High Temps
Today



Forecast Discussion

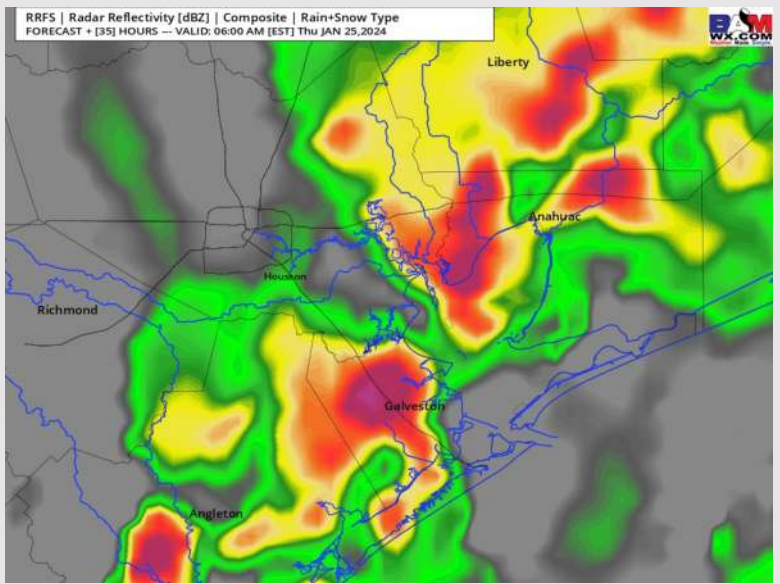
Precip: Monitoring potential for a line of strong storms to work in between 5AM and 7AM CT. Lower confidence on intensity, but favoring a low end risk for wind gusts of 35 – 45 kts to be possible.

Wind: Winds settle out of the NNW by 7 AM behind the front, then will begin to rotate clockwise from the NE in the late PM (post 10 PM) **N Morgan's Point:** 5 - 10 kts sustained. In the early PM winds lighten to 3- 8 kts. **S of Morgan's Point:** 7 -12 kts through 2 PM, decreasing to 3-8 kts after that time. **Non Thunderstorm wind gusts of 25 – 28. kts will be possible for all stations between 2AM – 5AM prior to storms arrival.**

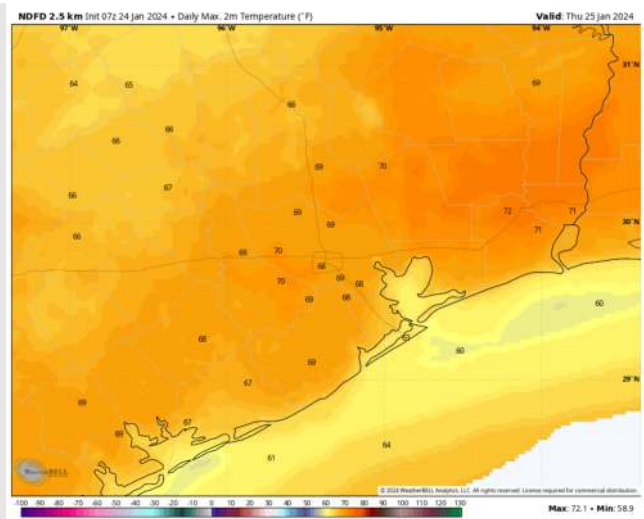
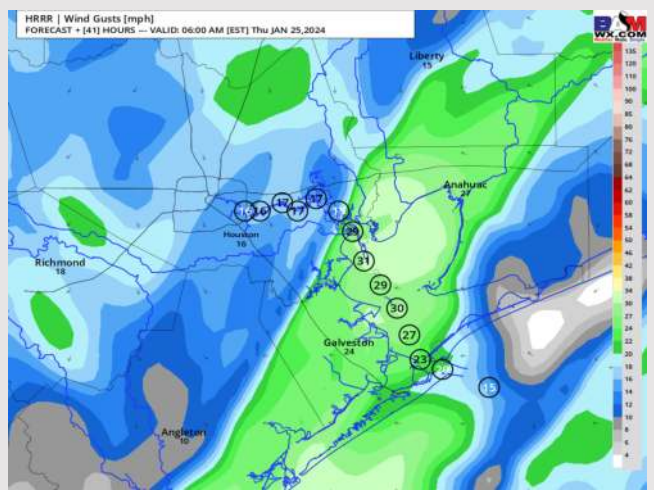
High Temps: **N of Morgan's Point:** Upper 60s F. **S of Morgan's Point:** Low 60s F.

Visibility: Monitoring potential for patchy to widespread fog, especially during the AM hours with start time dependent on exit of storm chances across the area

Precip Image: ~6 AM CT



Wind Gusts:
5 AM CT



High Temps
Thursday

Houston Pilots: Fri. 01/26/2024



Forecast Discussion

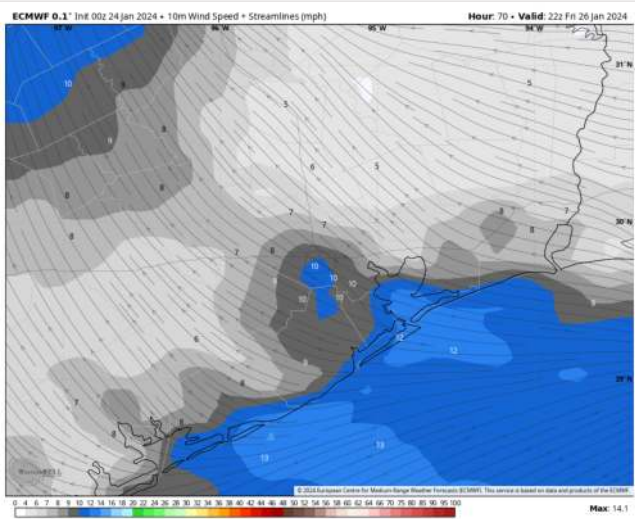
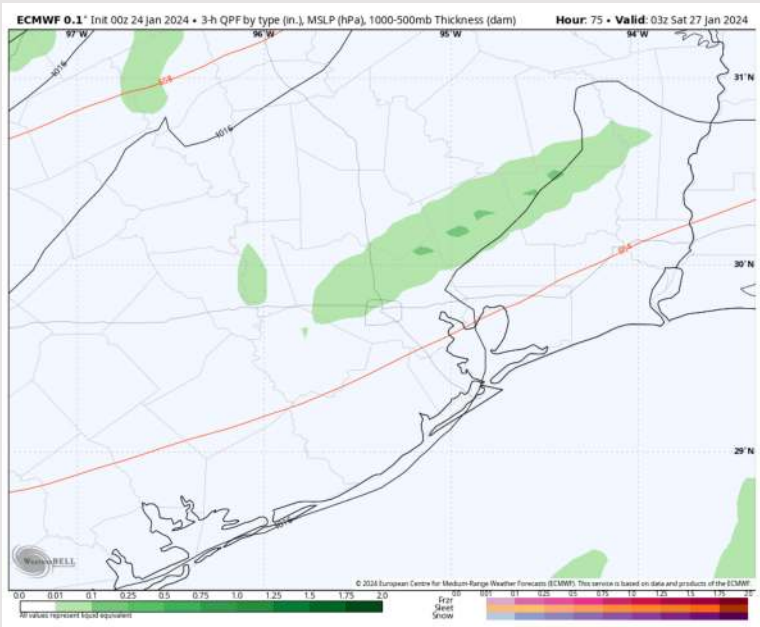
Precip: Lower confidence of exact timing of rain shower chances, but favoring 6 – 11PM to be the best potential for light showers to work into the area, impacting all stations. Not favoring additional thunderstorm risks at this time.

Wind: Winds will start out of the Northeast and become fully out of the Southeast by 10PM. **N of Morgan's Point:** 4-9 kts favored for the entire day. **S of Morgan's Point:** 8 - 12 kts sustained for the entire day.

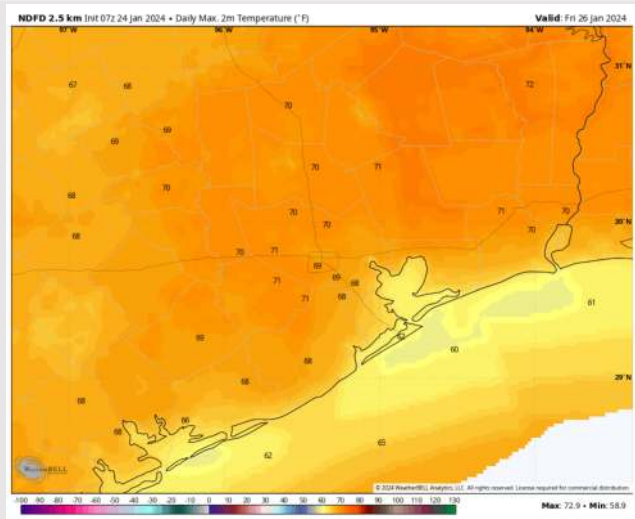
High Temps: **N of Morgan's Point:** Upper 60s F / Near 70 **S of Morgan's Point:** Lower 60s F to upper 50s F.

Visibility: Patchy to widespread fog remains possible for late Friday evening, but will be highly dependent on timing of another weak front.

Precip Image: 9 PM CT



Wind Speed:
12 PM CT

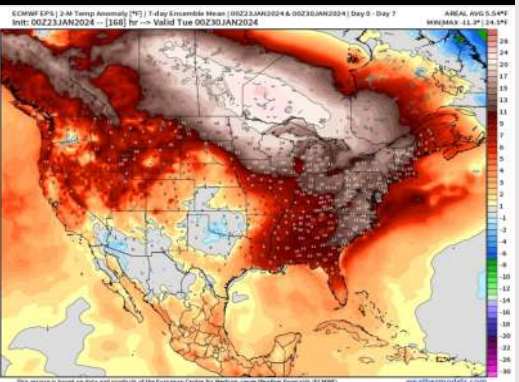


High Temps
Friday

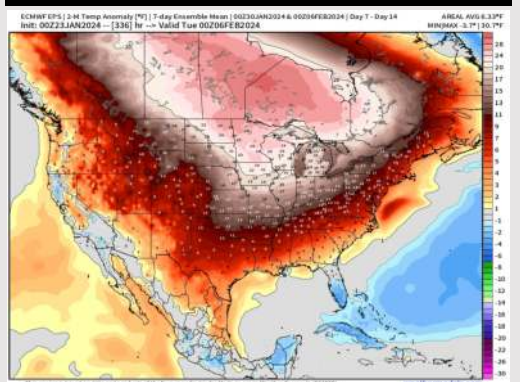
Houston Pilots: 1/24/24



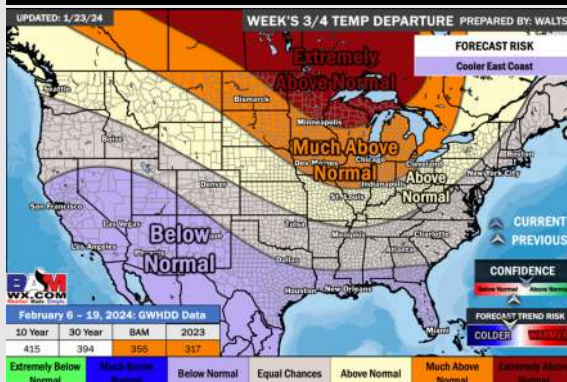
Next 7 Day Temperature Departure



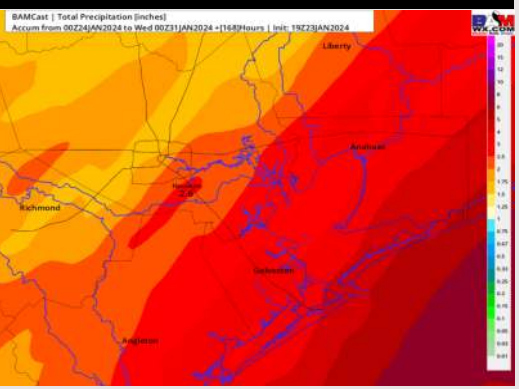
8-14 Day Temperature Departure



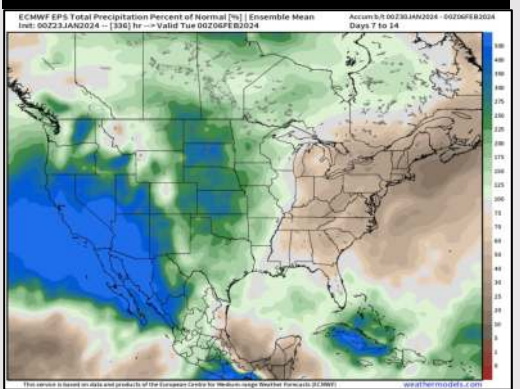
15-30 Day Temperature Departure



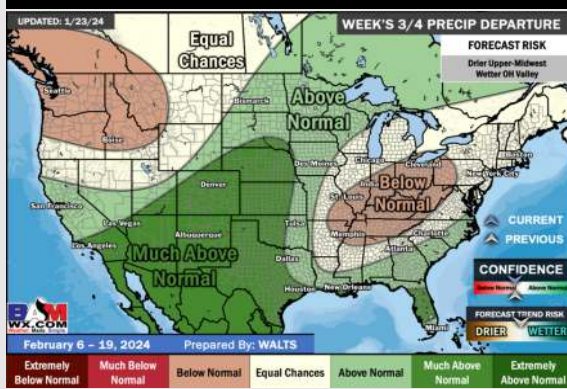
Next 7 Day Total Precipitation



8-14 Day % of Average Precip.



15-30 Day % of Average Precip.



- Additional rainfall this week through Thursday can produce 2-3” of rain with locally higher amounts. Above normal temperatures favored for the week ahead.
- Slightly above normal precipitation chances are at play during the week 2 timeframe. Temps expected to be above normal.
- Below normal temperatures and much above normal chances for precipitation are favored in the weeks ¾ timeframe.