Houston Pilots Forecast Package

Updated: 5:45 PM CT

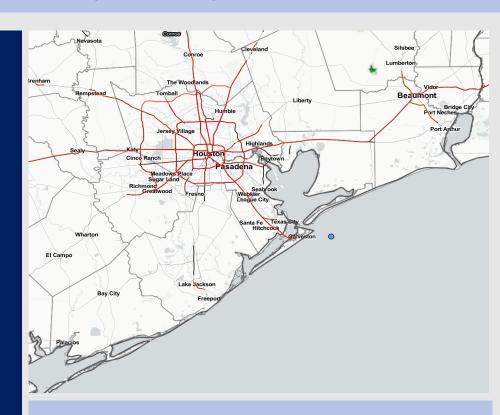
Friday, December 9, 2022

Forecaster: Tyler Hollingsworth



Weather Headlines

- Hit and miss pockets of drizzle will be possible the next few days with better shower / storm chances moving in Saturday PM.
- ➤ Winds will generally stay within the 5 15 kt range over the next two days. Winds will be generally out of the ESE/SE and continue at this direction tomorrow. Sunday PM winds are expected to shift out of the NW.
- Fog chances will be at play over the next 48 hours. Please check out the slides below where we try to nail down timing as best as possible.



Radar/NWS Alerts: 5:45 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 Visibility Report

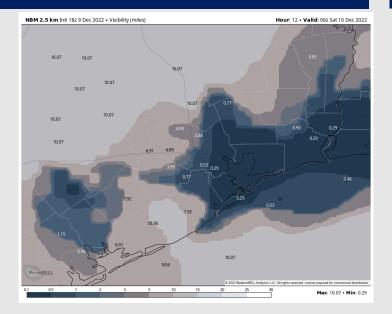




9 PM CT FRI VISIBILITY

NBM 2.5 km Init 182 9 Dec 2022 • Visibility (miles) Hour. 9 • Valid: 0.3z Sat 10 Dec 2022 10.07

12 AM CT SAT VISIBILITY



Confidence



Reduced Visibility Threat

NOW - 12 AM SAT

Medium -High

- After 6 PM, patchy fog will start to become more widespread over the area especially around the Boarding Station. This patchy fog will then gradually expand, moving in towards stations north of Morgan's Point by 9 PM. Widespread dense fog will continue to impact all stations thereafter, with the greatest risk moving in after 12 AM. (View next slide for Saturday fog risk)
- > Reduced visibility below 0.5 mile will be a risk associated with this fog potential.

Houston Pilots Visibility Report

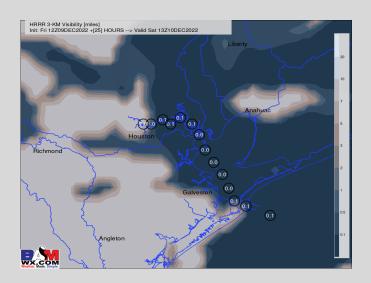




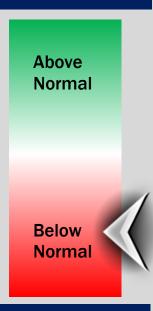
1 AM CT SAT VISIBILITY

HRRR 3-KM Visibility [miles] init: Fri 12209DEC2022 +(19) HOURS --> Valid Sat 07Z10DEC2022 Liberty 20 10 Richmond Anahua Anahua

7 AM CT SAT VISIBILITY



Confidence



Reduced Visibility Threat

12 AM SAT - 10 AM SUN

Medium -High

- Fridays fog will likely carry over into Saturday with the greatest risk for dense fog being between 12 AM and 7 AM.
- Favoring fog to begin to move south of Morgan's Point and become more patchy after 7 AM Saturday, and gradually clearing out of the area around 9/10 AM. The Boarding Station will still be at risk for continue dense fog.
- Anticipate the risk for patchy dense / dense fog to return in the evening and continue into Sunday Morning before winds shift out of the NE around 9/10 AM.
- Visibility could be reduced to 0.5 miles or less with these fog threats.
- Overall, confidence is low for exact timing and coverage for Saturdays evenings fog risk, as well as the timing for winds to shift out of the NE SUN.

Houston Pilots Extended Range Visibility Report





Possible

Unlikely

Monday 12/12/22

Lower confidence on exact details of fog potential into Monday AM as guidance is pretty spread on how far south a weak front can work. As of now, we are going to favor at least the chance for fog.

Confidence **Below Above** Normal Normal

Wednesday 12/14/22

Anticipating winds to shift to out of the NW Wednesday thanks to a passing cold front. This will (finally!) bring an end to fog potential.

Confide	ence
Above	Below
Normal	Normal

Tuesday 12/13/22

Anticipating winds to remain out of the SW pending an approaching front. Wind speeds may have a big factor on fog formation as they will definitely be on the edge of being "too strong" for fog (something that needs fine tuned). The signal for widespread fog both Monday and Tuesday is not nearly as strong as it was over the past several days, thus leading to some lower confidence.

Co	onfidence	
Above Normal		Below Normal

on for Doducad Visibility

Chance for Reduced Vis	Sibility
Monday AM	Possible
Monday PM	Unlikely
Tuesday AM	Possible

Tuesday PM

Wednesday PM

Wednesday AM	Unlikely

Houston Pilots Visibility Report





Above Normal Below Normal

Time	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	Sat 8am	Sat 9am	Sat 10am	Sat 11am	Sat 12pm	Sat 1pm	Sat 2pm	Sat 3pm	Sat 4pm	Sat 5pm	Sat 6pm	Sat 7pm	Sat 8pm	Sat 9pm	Sat 10pm	Sat 11pm
610 Bridge	10	10	10	10	10	10	10	10	10	10	10	10	1	0.53	0.42	0.29	0.24	0.24	0.24	0.24	0.24	3	6	10	10	10	10	9	10	10	10	9	6	5	4	2
Kinder 1	10	10	10	10	10	10	10	10	10	10	10	10	0.95	0.53	0.42	0.29	0.24	0.24	0.24	0.24	0.24	3	6	10	10	10	10	9	10	10	10	9	6	5	4	2
Greens Bayou	10	10	10	10	10	10	10	10	10	10	10	10	0.9	0.53	0.39	0.29	0.24	0.24	0.24	0.24	0.24	2	7	10	10	10	10	9	10	10	10	9	6	6	6	2
Shell Crude	10	10	10	10	10	10	10	10	10	10	10	9	0.78	0.53	0.3	0.29	0.24	0.24	0.24	0.24	0.24	2	7	10	10	10	10	9	10	10	10	9	7	8	8	2
Lynchburg Ferries	10	10	10	10	10	10	10	10	10	10	10	3	0.77	0.53	0.29	0.29	0.24	0.24	0.24	0.24	0.24	2	7	9	10	10	10	8	9	10	10	8	7	8	8	2
Exxon 3	10	10	10	10	10	10	10	10	10	9	5	0.77	0.6	0.32	0.29	0.29	0.24	0.24	0.24	0.24	0.24	2	7	9	10	10	10	8	9	10	10	8	7	8	8	3
Morgans Point	10	10	10	10	10	10	10	10	10	7	4	0.77	0.53	0.35	0.29	0.29	0.24	0.24	0.24	0.87	1	4	8	9	10	10	10	9	10	10	10	9	7	8	8	5
75/76	10	10	10	10	10	10	10	10	10	6	5	3	1	0.53	0.29	0.29	0.24	0.24	0.24	0.56	1	3	7	9	10	10	10	9	10	10	10	9	7	8	8	6
63/64	10	10	10	10	10	10	10	10	9	6	4	3	1	0.64	0.48	0.38	0.33	0.33	0.24	0.33	0.84	3	6	9	10	10	9	9	9	10	10	9	7	8	8	7
51/52	10	10	10	10	10	10	10	10	7	6	4	2	1	0.63	0.63	0.46	0.41	0.41	0.24	0.24	0.24	4	6	8	8	9	9	7	8	9	9	8	7	8	8	7
37/38	9	10	10	10	10	10	10	9	6	5	4	2	0.97	0.29	0.29	0.29	0.24	0.24	0.24	0.24	0.24	2	6	7	7	8	8	7	7	9	9	7	7	8	7	7
25/26	6	9	10	10	10	10	10	8	6	6	3	2	0.96	0.38	0.29	0.53	0.24	0.24	0.24	0.24	0.99	3	7	7	7	7	7	7	7	7	7	7	7	8	8	7
11/12	6	7	10	10	10	10	10	7	6	6	3	3	0.53	0.85	0.29	0.53	0.24	0.24	0.24	0.24	1	4	7	7	7	7	7	7	7	7	7	7	7	8	8	7
1 & 2 Bravo	5	5	2	4	3	7	6	5	4	4	1	1	0.79	0.53	0.29	0.29	0.2	0.18	0.22	0.22	3	6	7	7	7	7	7	7	7	7	7	7	7	8	8	7

Please check slides above for official thinking on fog as the chart is likely not perfect.

Houston Pilots Wind Report







Sustained wind 13 Knots

Gusts 18 Knots

Wind from the N

Example

WS: 13

G:18

N

Time	Fri	Fri	Fri	Fri	Fri	Fri	Fri	Fri	Fri	Fri	Fri	Fri	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Knots	12pm	1pm	2pm	3pm	4pm	5pm	6pm	7pm	8pm	9pm	10pm	11pm	12am	1am	2am	3am	4am	5am	6am	7am	8am	9am	10am	11am	12pm	1pm	2pm	3pm	4pm	5pm	6pm	7pm	8pm	9pm	10pm	11pm
610 Bridge	5	6	8	6	7	7	6	5	5	5	5	5	5	5	5	4	4	4	4	4	5	6	7	7	7	8	9	9	9	9	7	6	6	6	4	4
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	SSW	SW	SSW	SSW	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SE
Kinder 1	5	6	6	7	7	7	5	5	5	5	5	5	5	5	5	4	4	4	4	4	5	5	7	7	7	7	8	9	9	8	7	6	5	5	4	4
	8	7	7	10	10	12	13	12	13	13	13	13	12	12	10	7	7	7	7	7	8	8	9	10	10	11	11	12	12	13	11	10	9	9	9	9
	SSW	SSW	SSW	SSW	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SE							
Greens Bayou	6 8 SSW	6 8 SSW	7 9 SSW	8 10 SSW	7 11 SSE	7 12 SSE	5 13 SSE	5 13 SSE	6 13 SSE	6 13 SE	6 13 SE	6 13 SE	6 13 SSE	5 12 SSE	4 11 SSE	4 7 SSE	3 6 SSE	4 7 SE	4 6 SE	4 7 SE	5 8 SE	5 8 SE	7 9 SSE	7 10 SSE	7 10 SE	7 11 SE	8 11 SE	9 12 SE	9 13 SE	8 13 SE	7 11 SE	6 10 SE	5 9 SE	5 9 SE	5 8 SE	4 9 SE
Shell Crude	5	7	8	8	7	7	5	6	6	6	6	6	5	5	4	4	4	5	5	5	5	5	7	7	7	8	9	9	9	8	7	7	6	5	5	4
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	SSW	SSW	SSW	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
Lynchburg Ferries	5 8 SSW	7 8 S	8 10 SSE	8 11 SSE	7 11 SSE	6 12 SSE	5 13 SSE	6 13 SSE	6 13 SSE	6 14 SSE	6 14 SSE	6 14 SSE	6 14 SSE	6 13 SSE	5 12 SSE	6 7 SSE	6 7 SSE	7 7 SE	6 7 SE	6 7 SE	6 8 SE	6 8 SE	7 9 SSE	7 9 SSE	8 10 SSE	8 10 SSE	9 11 SSE	10 12 SE	9 13 SE	9 12 SE	8 11 SE	8 10 SE	7 10 SE	7 10 SE	6 9 SE	6 9 SE
Exxon 3	5	7	8	8	8	7	6	7	6	6	6	6	5	6	5	6	6	7	6	6	6	6	7	7	8	8	9	10	9	9	8	8	7	7	6	6
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	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
Morgans Point	6 9 S	7 11 SSE	9 13 SSE	11 15 SSE	10 14 SSE	9 14 SSE	9 12 SSE	9 13 SSE	6 13 SSE	6 12 SE	6 11 SE	5 10 SE	5 10 SSE	5 10 SSE	5 11 SSE	6 8 SSE	6 7 SE	6 8 SE	6 8 SE	6 8 SE	6 9 SE	6 9 SE	7 9 SE	7 10 SSE	7 10 SSE	8 11 SE	8 11 SE	10 12 SE	9 12 SE	8 12 SE	8 11 SE	7 10 SE	7 10 SE	7 11 SE	6 11 SE	6 11 SE
75/76	6	9	10	11	10	10	9	9	8	7	6	5	5	4	3	6	6	7	6	6	7	7	7	7	7	8	8	9	9	8	8	7	7	7	6	7
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	SE	SE	SSE	SSE	SSE	SSE	SE	SSE	SSE	SE	SE	SF	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE						
63/64	7	9	10	11	10	10	9	9	8	8	7	6	6	4	4	7	7	7	7	7	7	7	7	7	7	8	9	9	8	8	8	7	7	7	7	7
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	SE	SSE	SSE	S	SSE	SSE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SE	SE	SF	SF	SF	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	SE	SF	SE
51/52	7	9	10	10	10	9	8	8	8	8	7	6	8	7	6	7	7	7	7	7	7	7	7	7	7	8	9	9	8	8	8	7	7	7	7	7
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	SE	SSE	SSE	S	SSE	SSE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SE	SE	SF	SF	SF	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	SE	SE	SE
37/38	6	9	9	9	10	9	8	7	7	7	6	7	8	7	7	7	7	7	7	7	7	7	7	7	7	8	9	9	8	8	8	8	8	8	7	8
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	SSE	S	S	S	S	SSE	SSE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	SE	SE	ESE	ESE	ESE	ESE	ESE	SE	SE
25/26	6	7	9	8	8	8	7	7	6	6	6	7	8	6	7	7	7	7	8	8	8	8	7	8	7	8	8	9	8	9	8	8	8	8	8	8
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	SSE	S	S	S	S	SSE	SSE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	SE	SE	ESE	ESE	ESE	ESE	ESE	SE	SE
11/12	6	7	7	7	6	6	5	6	6	6	6	6	7	6	6	8	8	8	8	8	8	8	8	8	7	8	8	9	9	9	9	9	9	8	9	8
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	SSE	S	S	S	SSE	SSE	SE	SSE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE						
1 & 2 Bravo	5	5	6	5	4	4	6	6	7	5	6	6	6	5	6	8	8	8	8	8	8	8	8	8	7	8	9	9	9	9	9	9	9	9	9	9
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	SE	SE	SE	SE	SSE	ESE	ESE	ESE	SE	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE

Houston Pilots: Fri. 12/9/2022





Forecast Discussion

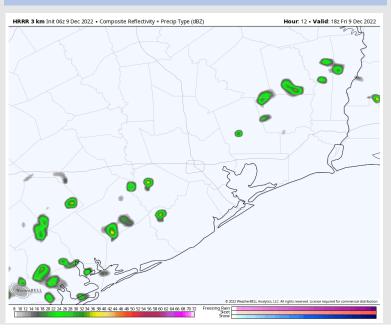
Precip: A 20% chance for scattered showers will continue until 4 PM timeframe Friday. Pockets of rain expected to be hit and miss and rather light in terms on intensity, with higher intensity rains staying north and west of HOU.

Wind: Winds will be out of the SE for almost the entire day. Winds will be at 3-8 kts until 12 PM. After 12 PM, winds will increase to 6-11 kts and remain here throughout the PM hours on Friday.

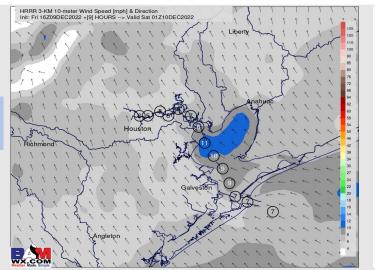
Temps: Low temps Saturday AM in the mid to upper 60s F for all stations.

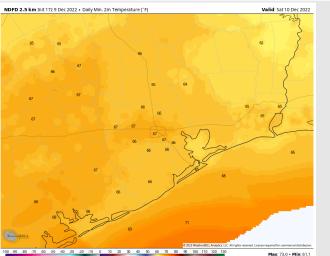
Visibility: Patchy / patchy dense fog will be possible this evening and will likely continue into Saturday. More details in the fog slide above.

Precip Forecast: 12 PM CT



Wind Speed 7 PM CT





High Temps Friday

Houston Pilots: Sat. 12/10/2022





Forecast Discussion

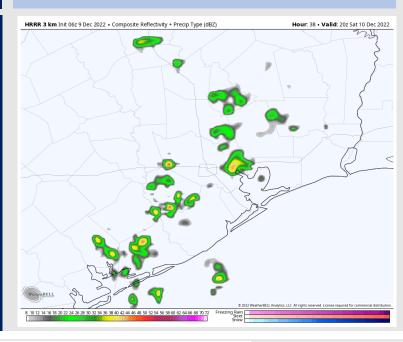
Precip: Dry conditions until 12 PM on Saturday. From 12 - 2 PM, 20-30% chance of scattered showers/storms around the area, with coverage increasing to 70-80% after 2 - 6 PM and continuing throughout the rest of the evening.

Wind: Sustained winds out of the S/SE throughout the day. Winds at 5-10 kts until 11 AM. From 11 AM – 5 PM, winds will increase to 8-13kts. After 6 PM, winds will calm down to 2-7 kts throughout the rest of the evening.

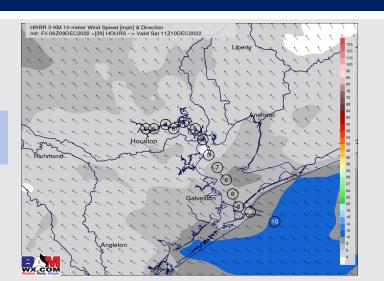
Temps: High temperatures for Saturday will be near 80 F/high 70's north of the boarding station and low 70's near the boarding station.

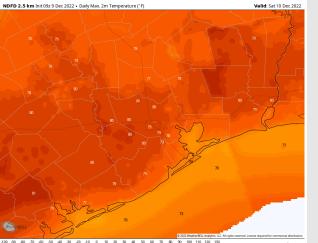
Visibility: Patchy fog is possible during the AM hours, with lower confidence on fog risks through the evening Saturday into Sunday. More details found on fog slide above.

Precip Forecast: 8 PM CT



Wind Speed 5 AM CT





High Temps Saturday

Houston Pilots: Sun. 12/11/2022





Forecast Discussion

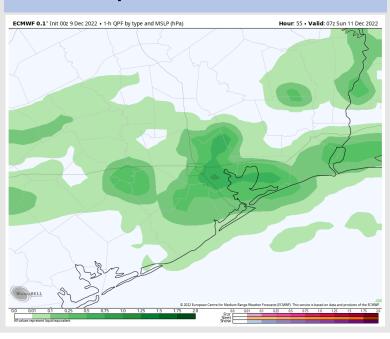
Precip: Anticipating Saturdays scattered showers/storms to continue into Sunday lasting until 7 AM CT at ~70% coverage. After 7 AM favoring chances for scattered showers/storms to decrease to 20-40% until 9 AM CT. After 9 AM CT anticipating dry conditions until around 3 PM CT. After 3 PM CT favoring a 10-20% chance for an isolated shower/storm until around 4 PM CT. After 4 PM CT, favoring dry conditions for the rest of the day.

Wind: Anticipating winds to be out of the S early Sunday AM at 4-10 kts. As the morning progresses, winds will become more variable at 1-6 kts. Expecting winds to shift out of the N/NW around 10 AM and continue at 1-6 kts for the rest of the day.

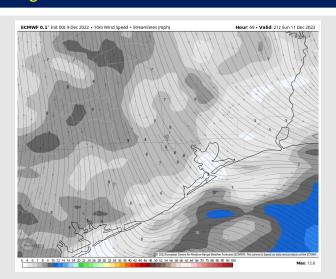
Temps: High temps Sunday will be in the low 70s F near the boarding station and in the mid 70s F at all other locations

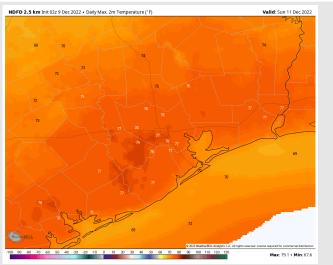
Visibility: Patchy dense / widespread dense fog will again be possible this evening and through the overnight.

Precip Forecast: 1 AM CT



Wind Speed 3 PM CT



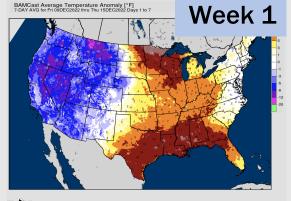


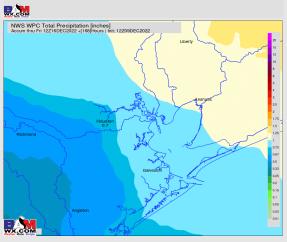
High Temps Sunday

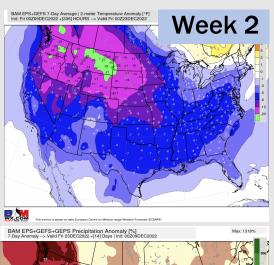
Houston Pilots: 12/9/22

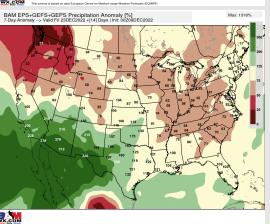


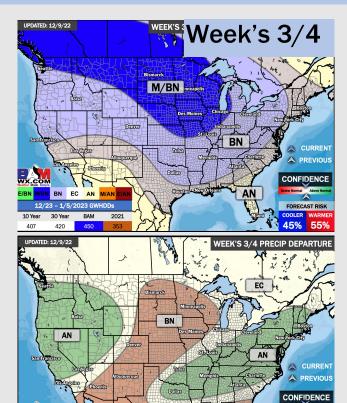












- Minor, hit and miss light rain chances will be possible over the weekend with better rain chances moving in towards the end of next week. Anticipating temps staying above average.
- Week 2 is expected to be below normal for temperatures and near normal for rain chances for mid December.
- > The weeks 3/4 timeframe looks to feature below normal temperatures and equal chances to below normal for precipitation.