

# Houston Pilots Forecast Package



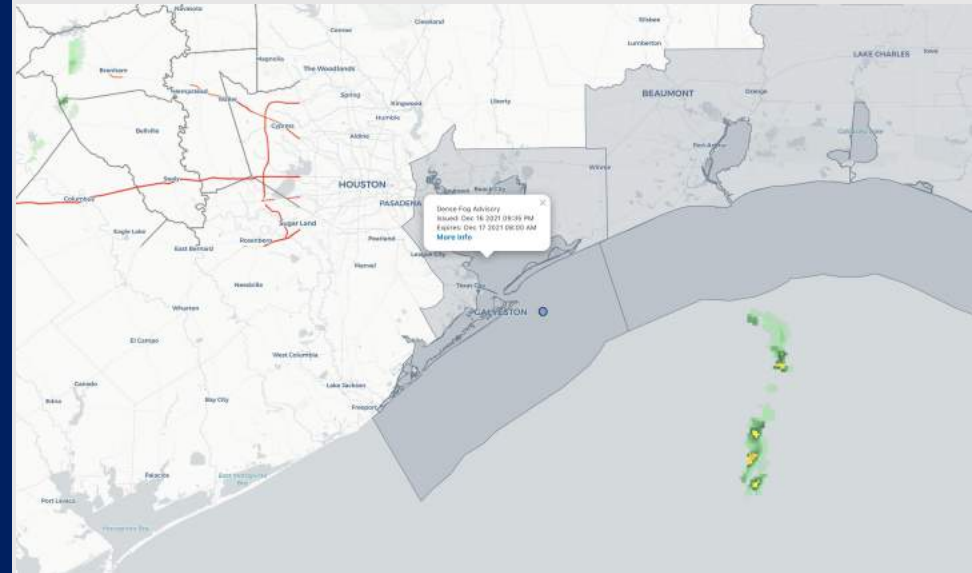
Updated: 5:10 AM CT

Friday, December 17, 2021

Forecaster: Matt Griffin

## Weather Headlines

- Fog potential this AM, overall threat on the weaker side.
- Better threat for fog into tomorrow morning.
- Cold front moves through tomorrow. A few stronger storms are possible with strong-to-severe wind gusts being the greatest threat (heavy rain possible as well).
- Winds pick up from the north Saturday evening into Sunday.



**Radar/ NWS Alerts: 5:10 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



Time	12-17-2021 Fri 4am	12-17-2021 Fri 5am	12-17-2021 Fri 6am	12-17-2021 Fri 7am	12-17-2021 Fri 8am	12-17-2021 Fri 9am	12-17-2021 Fri 10am	12-17-2021 Fri 11am	12-17-2021 Fri 12pm	12-17-2021 Fri 1pm	12-17-2021 Fri 2pm	12-17-2021 Fri 3pm	12-17-2021 Fri 4pm	12-17-2021 Fri 5pm	12-17-2021 Fri 6pm	12-17-2021 Fri 7pm	12-17-2021 Fri 8pm	12-17-2021 Fri 9pm	12-17-2021 Fri 10pm	12-17-2021 Fri 11pm	12-18-2021 Sat 12am	12-18-2021 Sat 1am	12-18-2021 Sat 2am	12-18-2021 Sat 3am	12-18-2021 Sat 4am	12-18-2021 Sat 5am	12-18-2021 Sat 6am	12-18-2021 Sat 7am	12-18-2021 Sat 8am	12-18-2021 Sat 9am	12-18-2021 Sat 10am	12-18-2021 Sat 11am	12-18-2021 Sat 12pm	12-18-2021 Sat 1pm	12-18-2021 Sat 2pm	12-18-2021 Sat 3pm	
Houston Pilots N - 610 Bridge	8.231	7.906	7.763	8.115	8.729	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	8.888	7.320	6.223	4.313	1.159	0.477	0.421	0.394	0.443	0.239	0.235	1.511	4.558	4.987	5.895	4.792	2.952	3.036	
Houston Pilots M - Kinder 1	8.151	7.877	7.781	8.095	8.699	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	9.973	10.000	10.000	10.000	8.722	7.235	6.085	4.105	0.959	0.484	0.410	0.394	0.431	0.241	0.234	1.552	4.585	5.011	5.883	4.761	2.990	3.010	
Houston Pilots L - Greens Bayou	7.774	7.194	7.765	7.992	8.552	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	9.611	10.000	10.000	10.000	8.499	7.126	5.878	3.880	0.692	0.520	0.425	0.459	0.420	0.245	0.229	1.484	4.563	5.019	5.820	4.653	3.077	3.066	
Houston Pilots K - Shell Crude	7.527	6.485	7.654	7.876	8.452	9.859	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	9.319	10.000	9.998	9.997	8.283	7.022	5.517	3.399	0.519	0.579	0.454	0.499	0.393	0.243	0.232	1.663	4.665	5.090	5.797	4.717	3.214	3.215	
Houston Pilots J - Lynchburg Ferries	7.240	6.251	7.497	7.785	8.358	9.622	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	9.104	10.000	9.979	9.979	8.315	6.987	5.517	3.631	0.517	0.590	0.475	0.517	0.413	0.243	0.225	1.436	4.543	5.021	5.773	4.621	3.195	3.269	
Houston Pilots I - Exxon 3	6.489	5.037	6.647	7.021	8.239	9.262	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	9.840	8.726	10.000	9.783	9.770	7.943	6.928	4.909	2.967	0.442	0.693	0.624	0.601	0.378	0.238	0.229	1.562	4.631	5.018	5.641	4.776	3.589	3.584
Houston Pilots H - Morgans Point	4.982	3.417	5.215	6.572	8.075	8.789	9.303	9.447	9.736	9.535	10.000	10.000	10.000	9.202	8.343	10.000	9.399	9.378	7.623	6.698	4.169	2.123	0.385	0.816	0.992	0.745	0.388	0.281	0.297	1.666	4.636	4.709	5.262	4.950	4.168	3.704	
Houston Pilots G - 75/76	3.787	2.506	4.504	6.514	7.950	8.451	8.827	8.980	9.115	9.324	9.695	9.819	9.509	8.772	8.072	10.000	8.998	8.868	7.209	6.229	3.306	1.283	0.360	1.041	1.483	0.977	0.597	0.536	0.513	1.718	4.425	4.089	4.765	4.880	4.783	3.526	
Houston Pilots F - 63/64	2.509	2.664	4.510	6.523	7.864	8.198	8.472	8.748	8.695	9.010	9.264	9.398	9.105	8.422	7.855	10.000	8.679	8.336	6.748	5.563	2.825	1.032	0.397	1.252	1.922	1.137	1.167	1.104	0.648	1.778	4.041	3.283	4.097	4.463	5.115	3.160	
Houston Pilots E - 51/52	3.240	4.083	5.633	7.332	7.991	8.312	8.597	8.985	8.992	9.282	9.515	9.539	9.149	8.434	7.821	10.000	8.538	7.871	6.292	4.747	2.563	1.182	0.499	1.303	1.944	1.146	2.140	1.924	0.899	1.877	3.568	2.548	3.471	3.683	4.896	2.735	
Houston Pilots D - 37/38	4.055	4.972	6.948	7.905	8.122	8.437	8.736	9.128	9.103	9.380	9.607	9.552	9.119	8.453	7.838	10.000	8.533	7.521	5.879	4.048	2.570	1.532	0.786	1.230	1.545	1.079	3.269	2.527	0.630	2.097	3.084	2.404	3.112	2.855	4.120	2.645	
Houston Pilots C - 25/26	3.771	5.237	7.551	7.948	8.137	8.364	8.597	8.886	8.832	9.043	9.244	9.161	8.780	8.279	7.795	10.000	8.389	7.296	5.826	3.354	2.213	1.524	1.096	1.270	1.394	1.209	4.844	3.236	0.586	1.907	2.297	1.947	2.330	1.967	3.012	2.497	
Houston Pilots B - 11/12	2.813	5.790	7.763	7.965	8.095	8.157	8.273	8.429	8.312	8.466	8.573	8.510	8.257	7.973	7.683	10.000	8.242	7.206	5.954	2.986	1.648	1.195	1.068	1.065	1.200	1.063	6.000	4.407	0.535	1.332	1.539	1.313	1.490	1.274	2.225	2.303	
Houston Pilots A - 1 & 2 Bravo	3.796	6.535	7.901	8.055	7.988	7.842	7.809	7.839	7.680	7.690	7.666	7.641	7.615	7.597	7.582	10.000	8.071	7.427	6.897	4.382	0.969	0.719	0.739	0.782	1.194	1.181	7.667	6.829	0.541	0.318	0.383	0.381	0.380	0.401	0.768	1.939	

More fog/ reduced visibility details on the slides below.

# Houston Pilots Extended Range Visibility Report



## Sunday, 12/19/21

With elevated winds out of the N/NE, currently not anticipating fog at our stations on Sun.



## Monday, 12/20/21

With winds still out of the north on Mon, currently not anticipating fog at our stations for Mon AM.



## Tuesday, 12/21/21

Tuesday's winds look to be out of the NE, so fog is not favored at this distance.



## Daily Fog Chance

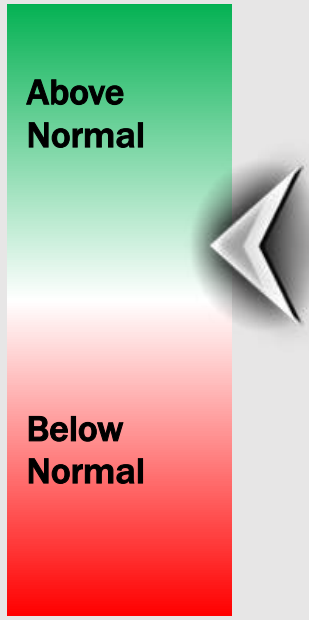
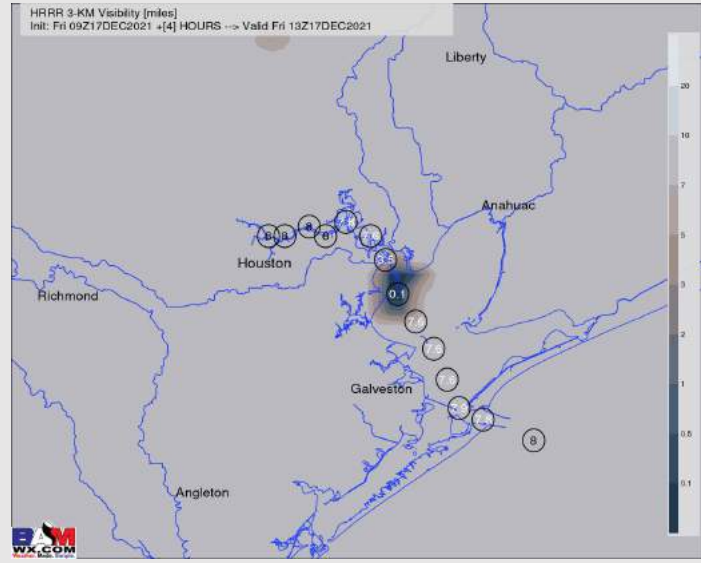
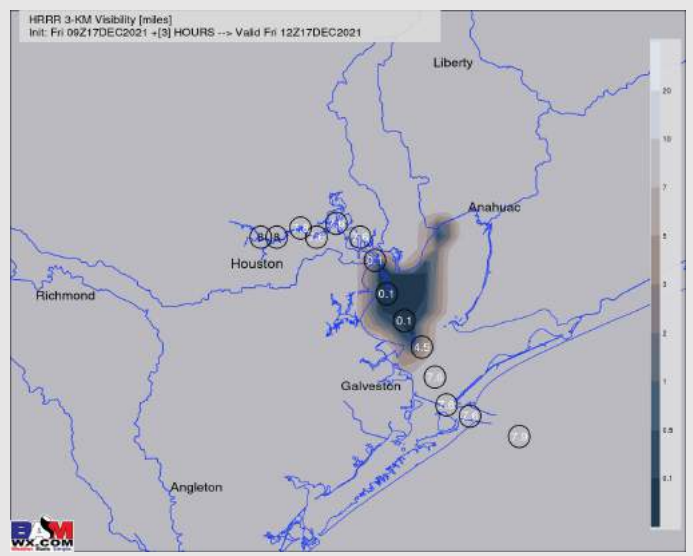
Sunday AM	Unlikely
Monday AM	Unlikely
Monday AM	Unlikely

# Houston Pilots Visibility Report



## 6 AM CT FRI Visibility (miles)      7 AM CT FRI Visibility (miles)

## Confidence



### Fog Threat

CURRENT - 8 AM FRI      **Medium**

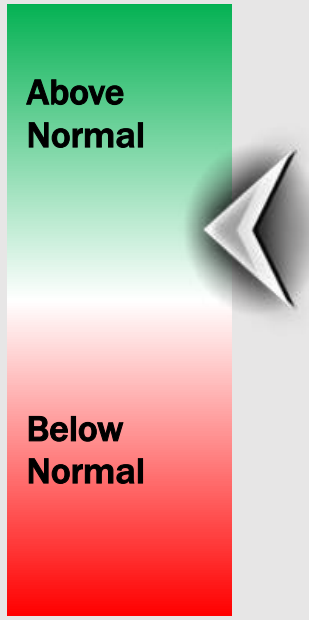
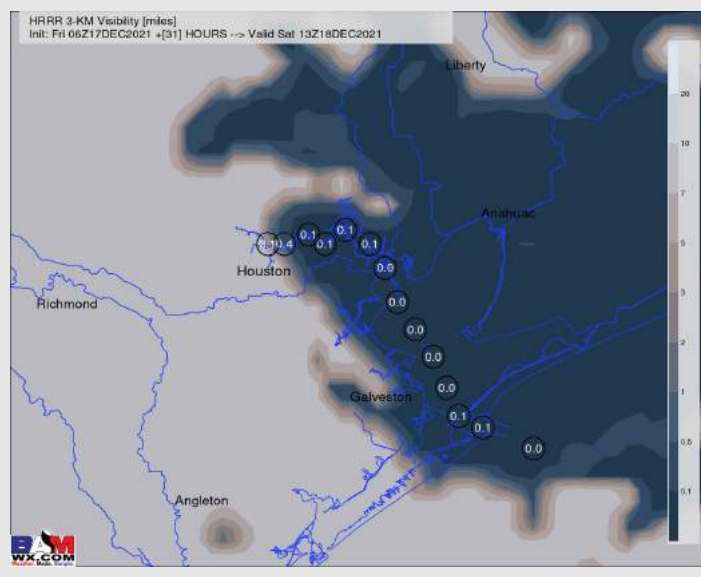
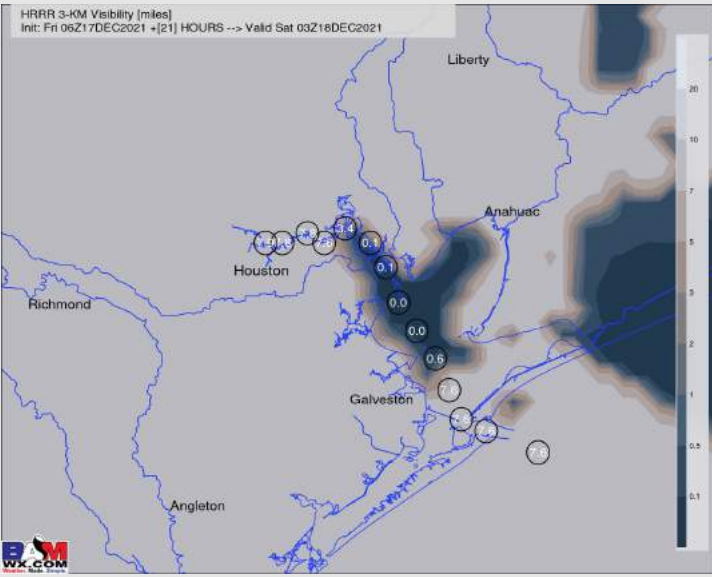
- Current visibilities around the Galveston station show visibilities already lifting to 8 miles of visibility. Taking a look at specialized satellite products, some lower clouds/ patchy fog continue to be possible for stations 75/76 and points north.
- Latest guidance suggest this can continue to be possible out through about the 8 AM timeframe this morning. Guidance above shows patchy nature.
- As the sunrises fog should start to lift pretty quickly.

# Houston Pilots Visibility Report



## 9 PM CT FRI Visibility (miles)      7 AM CT SAT Visibility (miles)

## Confidence



## Fog Threat

7 PM FRI - 11 AM SAT      **Medium - High**

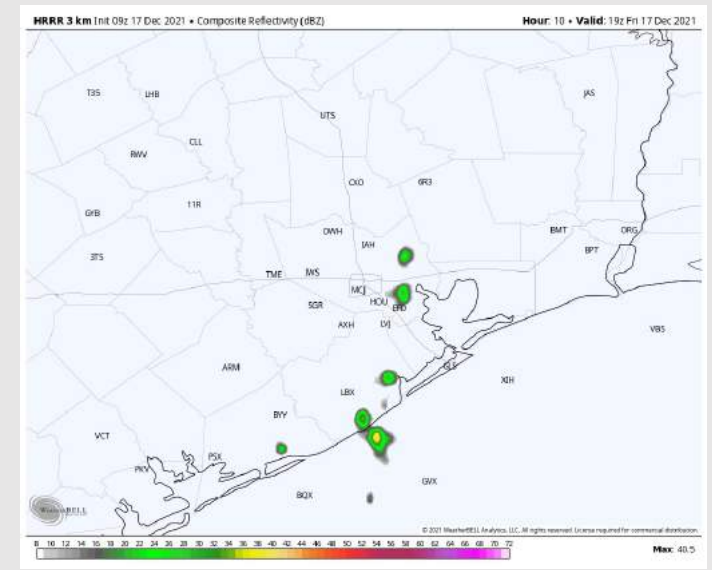
- We still have above normal confidence on a more widespread dense fog threat heading into Saturday morning.
- As it stands now, will need to watch the 7 - 10 PM timeframe, especially from stations J to station D, for patchy fog development.
- The potential for fog continues to expand throughout the overnight into the evening as winds weaken and shift more out of the east (both more favorable for fog production). Best window looks to be in the 2 AM to 9 AM window with patchy fog perhaps lingering through about 10 - 11 AM. At times fog can reduce visibilities less than 0.5 miles (especially in the window). All stations at risk to see the fog.

# Houston Pilots: *Fri. 12/17/2021*

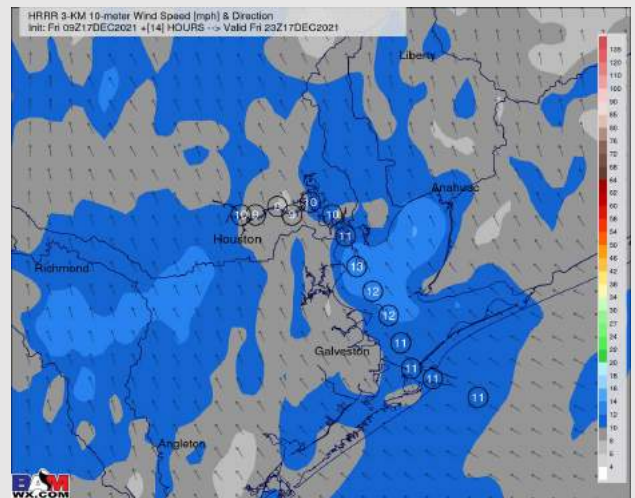
## Forecast Discussion

- Precip:** About 10% chance for a very light streaming shower/drizzle through about 5 PM today. Beyond 5 PM, a very isolated pocket of light drizzle cannot be ruled out but would favor mainly dry.
- Wind:** Sustained winds look to be 8-13 MPH out of the SE out through about 3 PM. Winds calm down just a bit thereafter closer to 5 – 10 MPH. Gusts 14-20 MPH will be possible as well.
- Temps:** High temps look to be in the upper 70s to low 80s F on Thu.
- Visibility:** Check slides above for more details on fog potential.

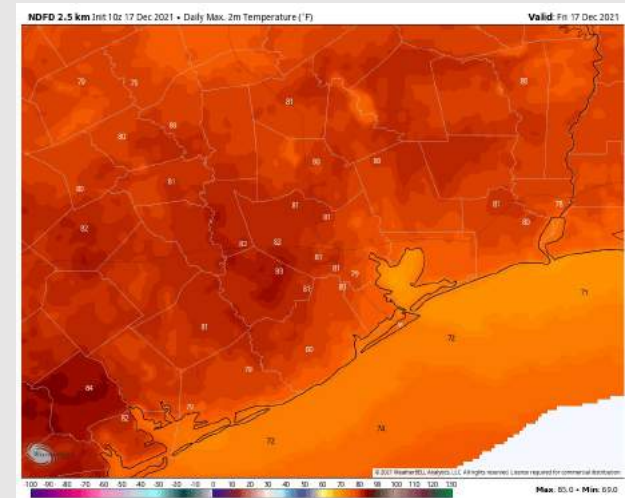
## Precip Forecast: 1 PM CT



Wind Speed:  
5 PM CT



High Temps  
Friday



# Houston Pilots: Sat. 12/18/2021



## Forecast Discussion

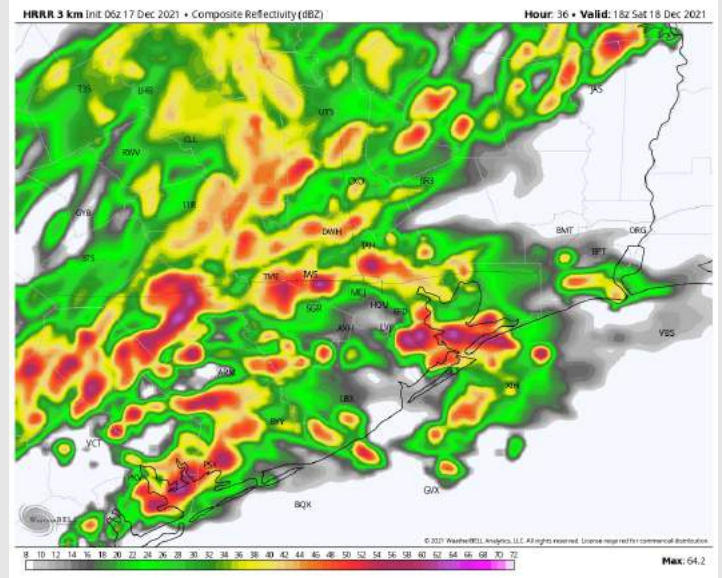
**Precip:** An approaching cold front will be the catalyst for widespread showers/ storms on Saturday. While exact timing will need fine tuned, the overall thinking is that precipitation chances start to ramp up after 9 AM for some scattered showers/ storms. Better potential exists around 12 PM – 4 PM for storms, some which could be strong to severe in nature (strong wind gusts the main threat, secondary threat for hail). Beyond this period rain showers continue to be possible into the evening. Chances drop off after 9 PM with only isolated light showers towards midnight.

**Wind:** Light SE winds will be the theme throughout the morning / early afternoon sustained around 5 – 10 MPH. From about 2 – 4 PM, the cold front passes and winds begin to sharply shift out of the north. Sustained winds look pick up to 20 – 25 MPH sustained with gusts of 35 – 40 MPH late into the afternoon/ evening.

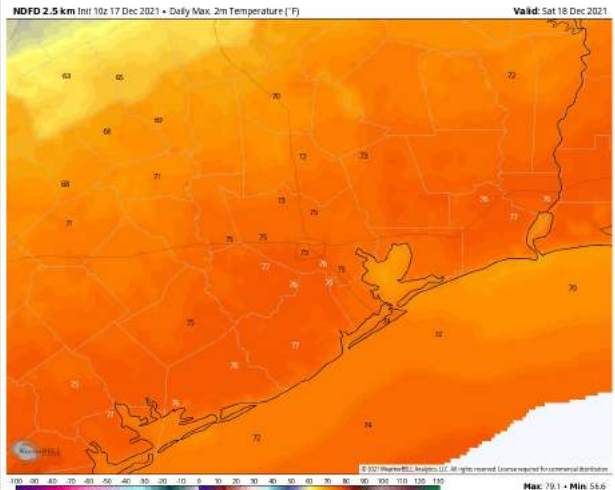
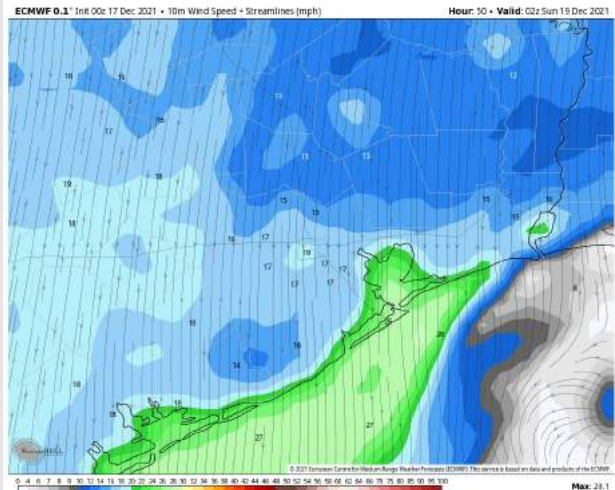
**Temps:** High Temperatures look to get into the mid 70's F.

**Visibility:** More information on fog potential Saturday morning in slides above. In addition, heavier rain will certainly hold the potential to reduce visibilities as well.

## Precip Forecast: 12 PM CT



Wind Speed  
8 PM CT



High Temps  
Friday

# Houston Pilots: *Sun. 12/19/2021*



## Forecast Discussion

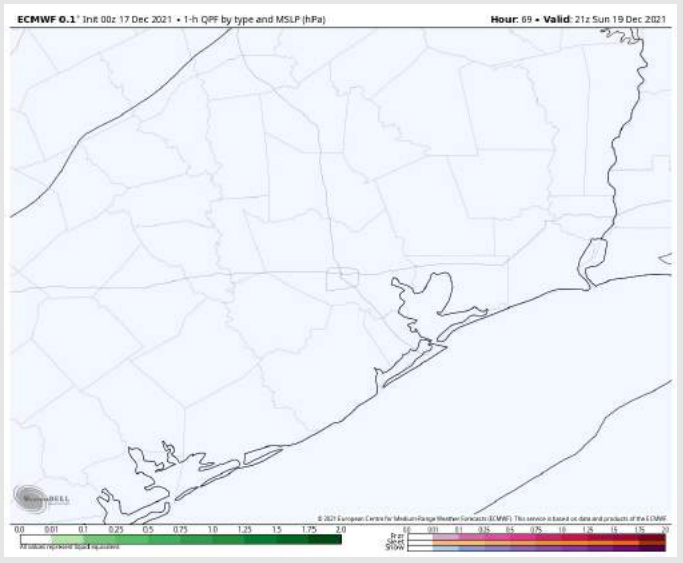
**Precip:** Sunday is expected to be a dry day, but will need to watch getting into the early morning hours of Monday for precipitation chances to return.

**Wind:** Winds will continue to be from the north throughout the day. Winds look to be sustained around 15 – 25 MPH in the morning before weakening slightly to 10 – 20 MPH into the evening. Gusts of 30 – 35 MPH will be possible in the AM with gusts of 25 – 30 MPH in the PM.

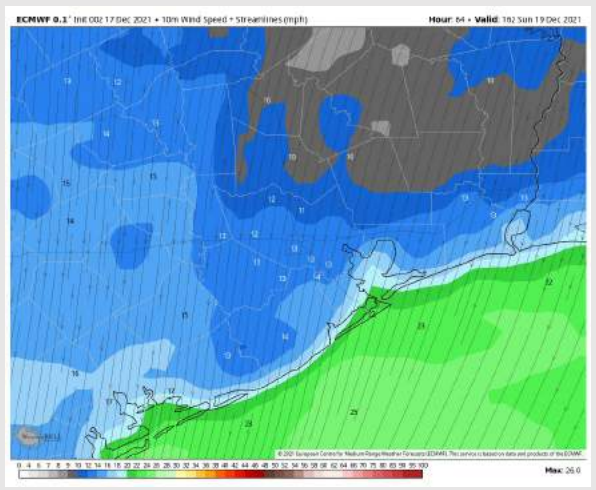
**Temps:** High temps look to get into the upper 50's F

**Visibility:** Not favoring fog for Sunday with northerly / elevated winds.

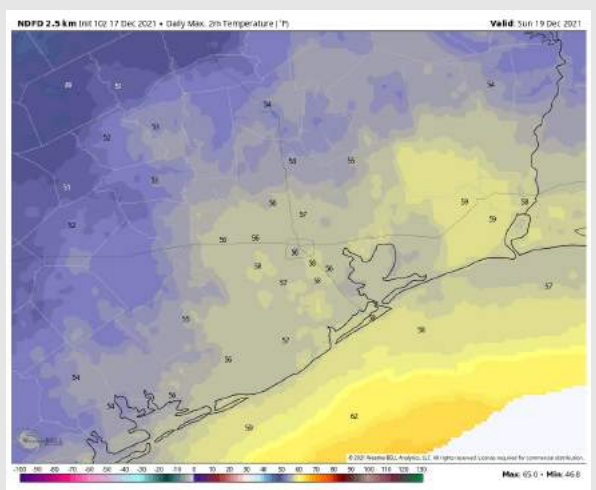
## Precip Forecast: 11 PM CT



Wind Speed  
10 AM CT

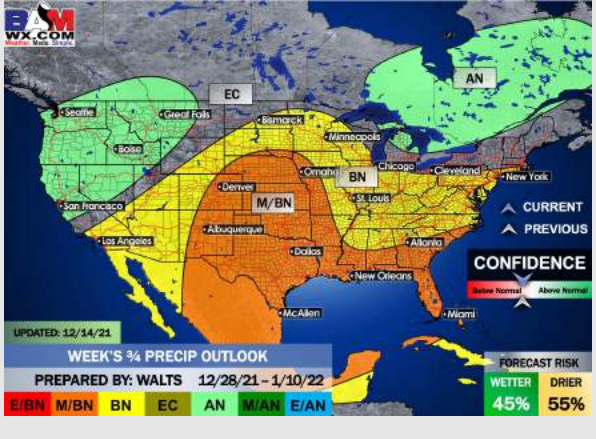
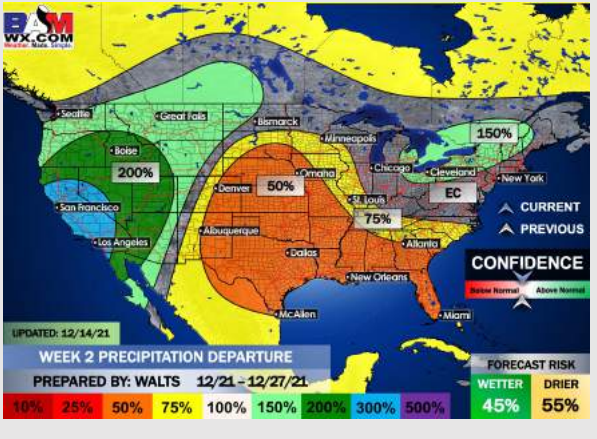
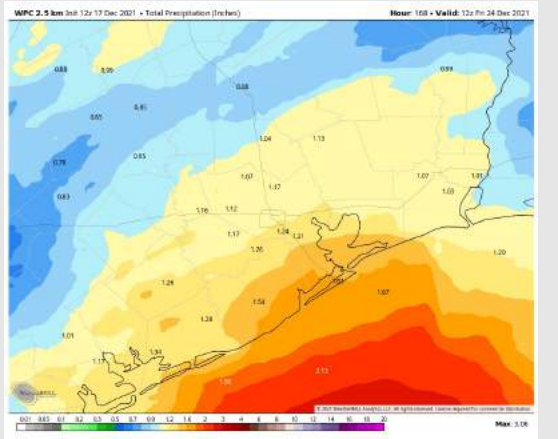
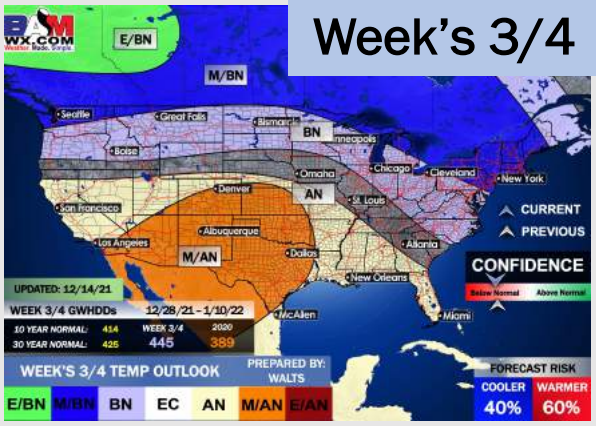
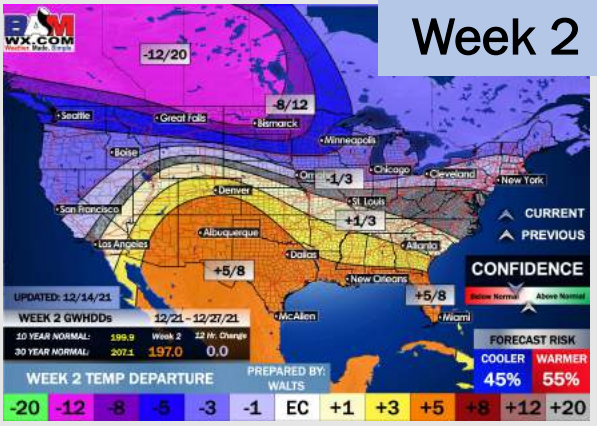
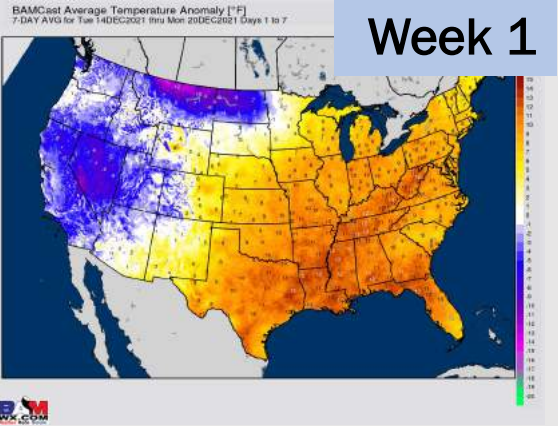


High Temps  
Sun





# Houston Pilots: 12/17/21



- Cold front moving through tomorrow certainly will hold the potential for heavier rain. Aside from this, a generally less active week.
- The week 2 timeframe is expected to have above normal temperatures and below normal risks for precipitation.
- Right now, we are favoring above normal risks for temperatures and near normal to below normal risks for precip for the end of December and the first week of Jan.