

# Houston Pilots Forecast Package



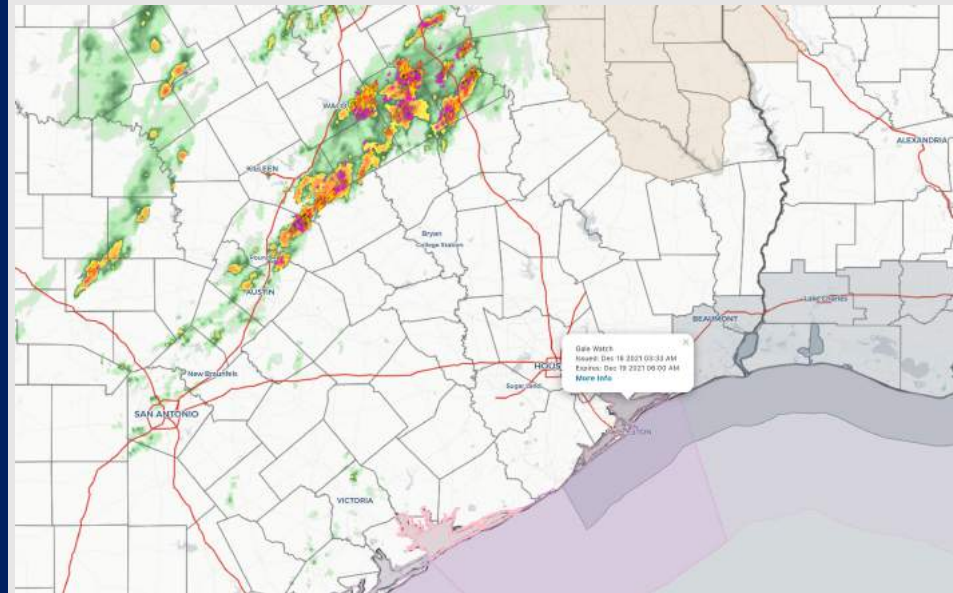
Updated: 5:00 AM CT

Saturday, December 18, 2021

Forecaster: Matt Griffin

## Weather Headlines

- Continued fog threat this morning.
- Strong to severe storms possible today with flooding risks.
- Winds pick up out of the north this evening though tomorrow morning.



**Radar/ NWS Alerts: 4:51 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                                 | 12-18-2021 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 | 12-18-2021 Sat 4pm | 12-18-2021 Sat 6pm | 12-18-2021 Sat 6pm | 12-18-2021 Sat 7pm | 12-18-2021 Sat 8pm | 12-18-2021 Sat 9pm | 12-18-2021 Sat 10pm | 12-18-2021 Sat 11pm | 12-19-2021 Sun 12am | 12-19-2021 Sun 1am | 12-19-2021 Sun 2am | 12-19-2021 Sun 3am | 12-19-2021 Sun 4am | 12-19-2021 Sun 5am | 12-19-2021 Sun 6am | 12-19-2021 Sun 7am | 12-19-2021 Sun 8am | 12-19-2021 Sun 9am | 12-19-2021 Sun 10am | 12-19-2021 Sun 11am | 12-19-2021 Sun 12pm | 12-19-2021 Sun 1pm | 12-19-2021 Sun 2pm |        |        |
|--------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------|--------|
| Houston Pilots N - 610 Bridge        | 6.964              | 6.513              | 6.096              | 5.529              | 6.096              | 5.514              | 6.964              | 6.964               | 6.964               | 5.886               | 4.625              | 3.897              | 3.897              | 4.931              | 4.931              | 6.958              | 6.920              | 6.920              | 5.930              | 6.964               | 9.772               | 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              | 10.000             | 10.000             | 10.000 | 10.000 |
| Houston Pilots M - Kinder 1          | 6.964              | 6.513              | 6.096              | 5.529              | 6.096              | 5.514              | 6.964              | 6.964               | 6.964               | 5.886               | 4.623              | 3.897              | 3.897              | 4.931              | 4.931              | 6.958              | 6.920              | 6.920              | 5.930              | 6.964               | 9.769               | 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              | 10.000             | 10.000             | 10.000 | 10.000 |
| Houston Pilots L - Greens Bayou      | 6.922              | 6.621              | 5.779              | 5.359              | 5.779              | 5.355              | 6.952              | 6.952               | 6.922               | 5.886               | 4.619              | 3.897              | 2.975              | 4.931              | 4.931              | 6.920              | 6.920              | 6.920              | 5.918              | 6.952               | 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              | 10.000              | 10.000             | 10.000             | 10.000 | 10.000 |
| Houston Pilots K - Shell Crude       | 6.922              | 6.397              | 4.996              | 4.937              | 4.996              | 4.964              | 6.922              | 6.948               | 6.922               | 5.886               | 3.897              | 3.897              | 2.945              | 4.931              | 4.931              | 6.920              | 6.920              | 6.999              | 5.888              | 6.922               | 9.761               | 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              | 10.000             | 10.000             | 10.000 | 10.000 |
| Houston Pilots J - Lynchburg Ferriss | 6.920              | 6.758              | 4.931              | 4.902              | 4.931              | 4.931              | 6.920              | 6.920               | 6.920               | 5.886               | 3.897              | 3.897              | 2.501              | 4.931              | 4.931              | 6.920              | 6.920              | 7.152              | 5.886              | 6.920               | 9.788               | 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              | 10.000             | 10.000             | 10.000 | 10.000 |
| Houston Pilots I - Exxon 3           | 6.920              | 5.886              | 4.931              | 4.902              | 4.931              | 4.931              | 6.920              | 6.920               | 6.564               | 5.886               | 3.897              | 3.897              | 2.466              | 4.931              | 4.931              | 6.920              | 6.198              | 8.033              | 5.886              | 6.920               | 8.080               | 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              | 10.000             | 10.000             | 10.000 | 10.000 |
| Houston Pilots H - Morgans Point     | 6.920              | 6.106              | 4.931              | 4.902              | 4.931              | 4.931              | 6.920              | 6.920               | 6.564               | 5.886               | 3.897              | 3.897              | 2.466              | 4.931              | 4.931              | 5.886              | 5.886              | 8.033              | 5.886              | 8.033               | 8.033               | 9.094               | 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             | 10.000             | 10.000 | 10.000 |
| Houston Pilots G - 75/76             | 6.920              | 6.106              | 4.931              | 4.902              | 4.931              | 4.931              | 6.920              | 6.920               | 6.356               | 5.886               | 3.897              | 3.897              | 2.466              | 3.897              | 4.931              | 4.931              | 5.011              | 8.033              | 5.365              | 8.033               | 8.033               | 8.988               | 8.988              | 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             | 10.000 | 10.000 |
| Houston Pilots F - 83/64             | 6.920              | 5.886              | 4.931              | 4.902              | 4.931              | 4.931              | 6.920              | 7.954               | 6.488               | 5.886               | 4.931              | 2.943              | 2.259              | 3.897              | 4.931              | 4.931              | 5.604              | 8.033              | 4.931              | 8.033               | 8.033               | 8.988               | 8.988              | 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             | 10.000 | 10.000 |
| Houston Pilots E - 51/52             | 6.630              | 5.619              | 4.931              | 4.902              | 4.642              | 4.931              | 6.920              | 8.988               | 6.920               | 5.886               | 4.931              | 4.931              | 3.263              | 3.897              | 4.931              | 4.931              | 5.604              | 8.033              | 4.931              | 8.033               | 8.033               | 8.988               | 8.988              | 9.081              | 9.949              | 10.000             | 9.790              | 10.000             | 10.000             | 10.000             | 10.000             | 10.000              | 10.000              | 10.000              | 10.000             | 10.000             | 10.000 |        |
| Houston Pilots D - 37/38             | 5.886              | 4.931              | 4.775              | 4.902              | 3.897              | 4.709              | 6.920              | 8.988               | 6.920               | 5.886               | 4.931              | 4.931              | 4.931              | 2.840              | 4.931              | 4.931              | 5.313              | 7.389              | 4.931              | 7.644               | 8.033               | 8.947               | 8.988              | 8.988              | 8.988              | 8.988              | 8.988              | 8.988              | 8.988              | 10.000             | 10.000             | 10.000              | 10.000              | 10.000              | 10.000             | 10.000             | 10.000 |        |
| Houston Pilots C - 25/26             | 4.931              | 4.931              | 4.611              | 3.859              | 3.897              | 4.611              | 6.920              | 8.988               | 6.967               | 6.920               | 6.598              | 4.931              | 6.920              | 4.587              | 4.843              | 4.931              | 4.931              | 8.033              | 4.931              | 6.999               | 8.033               | 8.033               | 8.988              | 8.988              | 8.988              | 8.988              | 8.988              | 8.988              | 8.988              | 10.000             | 10.000             | 10.000              | 10.000              | 10.000              | 10.000             | 10.000             | 10.000 |        |
| Houston Pilots B - 11/12             | 4.931              | 4.931              | 4.611              | 2.914              | 4.622              | 4.931              | 6.920              | 8.988               | 7.645               | 6.920               | 6.920              | 4.931              | 6.920              | 4.931              | 3.897              | 4.931              | 4.931              | 8.033              | 4.931              | 6.999               | 8.033               | 8.033               | 8.033              | 8.988              | 8.988              | 8.988              | 8.988              | 8.988              | 8.988              | 10.000             | 10.000             | 10.000              | 10.000              | 10.000              | 10.000             | 10.000             | 10.000 |        |
| Houston Pilots A - 1 & 2 Bravo       | 4.931              | 4.931              | 4.711              | 4.902              | 4.617              | 4.931              | 6.619              | 8.988               | 8.403               | 6.920               | 6.920              | 4.931              | 6.920              | 4.931              | 2.943              | 3.897              | 6.986              | 8.033              | 3.071              | 5.965               | 7.471               | 8.461               | 8.988              | 8.033              | 8.988              | 8.988              | 8.988              | 8.988              | 8.988              | 10.000             | 10.000             | 10.000              | 10.000              | 10.000              | 9.537              | 8.845              | 9.760  | 9.808  |

More fog/ reduced visibility details on the slides below.

# Houston Pilots Extended Range Visibility Report



## Tuesday, 12/21/21

Not anticipating fog at this distance on TUE with northerly winds, keeping the sea fog threat away.



## Wednesday, 12/22/21

The fog threat on Wednesday will depend on how quickly winds can shift back to out of the SE into WED morning. Confidence this far out is below normal on the potential



## Thursday, 12/23/21

The potential for fog development looks possible for Thu AM as winds are not as elevated, and winds are out of the south. Confidence is below normal on the potential.



## Daily Fog Chance

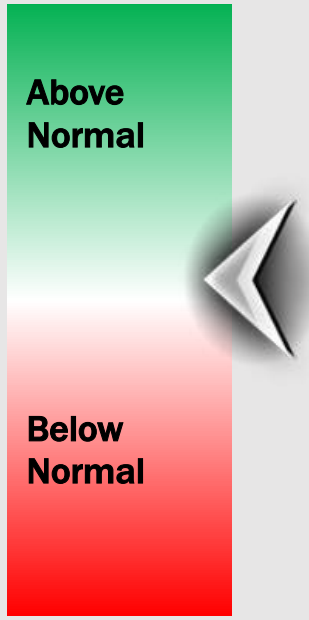
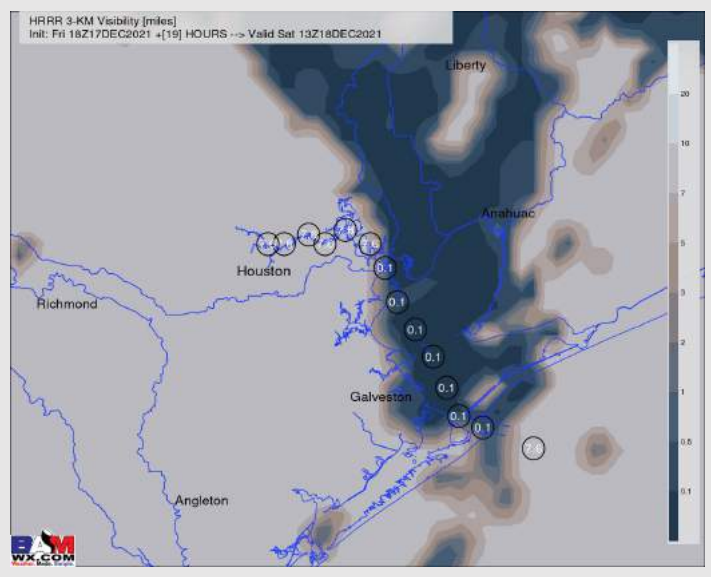
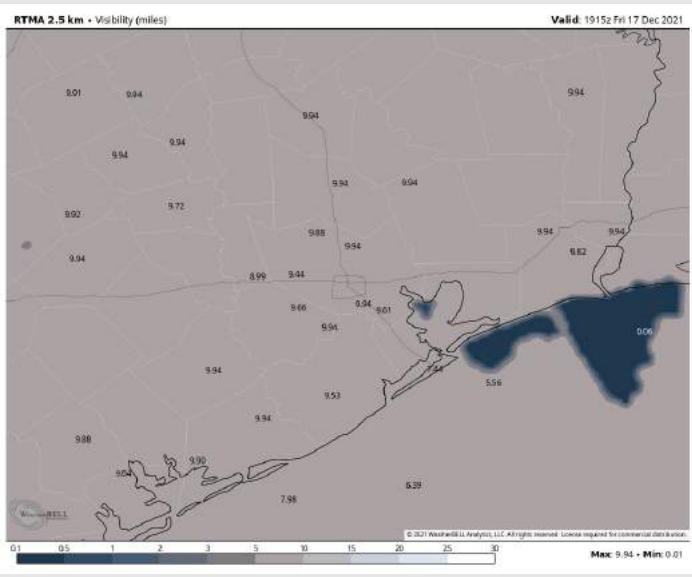
|              |          |
|--------------|----------|
| Tuesday AM   | Unlikely |
| Wednesday AM | Possible |
| Thursday AM  | Possible |

# Houston Pilots Visibility Report



## Current Visibility (miles)      7 AM CT SAT Visibility (miles)

## Confidence



## Fog Threat

Current- 7 AM SAT      **Medium - High**

- Data has backed off a little from widespread fog coverage from this morning, however, patchy dense fog will still be possible for all stations through Sat AM.
- Current visibilities of 3-6 miles from haze/fog continues to be possible through the afternoon from the boarding station to around the 75/76 station. Around 4-5 PM, patchy sea fog looks to develop more over the boarding station and advect further north to the 610 Bridge as we go into the evening/nighttime.
- Patchy dense fog with visibilities less than 2 miles will be likely around the boarding station through at least the 2-3 AM timeframe, where breaks in fog look to be possible, however, the threat for fog not completely gone.
- Patchy dense fog (visibility less than 2 miles) from the 25/26 station to downtown Hou is likely through at least the 6-7 AM timeframe.



# Houston Pilots: Sat. 12/18/2021



## Forecast Discussion

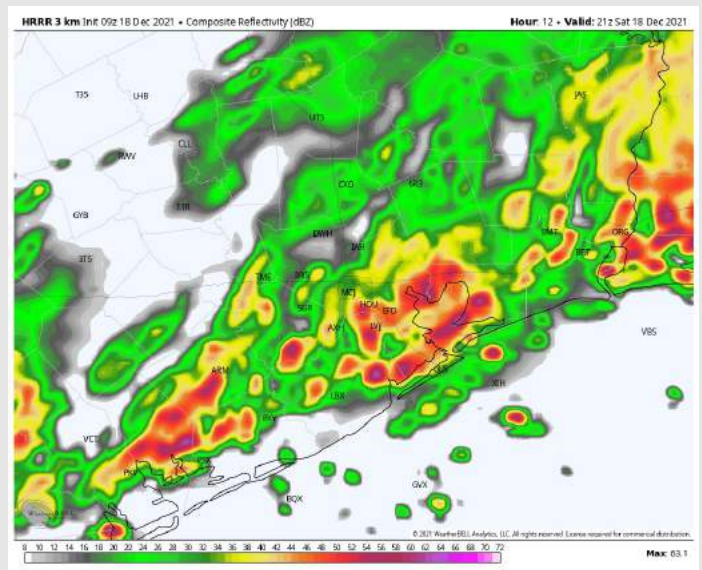
**Precip:** An active first half of the day is expected as a cold front approaches the area. In particular, the 10 – 11 AM timeframe is when scattered storm chances start to pick up with increasing chances into the afternoon. The 1 – 4 PM timeframe will be that of the greatest risk for storms, some which may become severe in nature. Strong to severe wind gusts will be the primary threat. A tornado cannot be ruled out as well. Beyond 4 PM, the cold front is expected to continue to push SE with some stratiform precipitation in behind. Bulk of moisture is out by 7 – 8 PM with some very light/ scattered-to-isolated moisture lingering through the overnight. In addition to the stronger storm risk, heavy rain could induce some flooding issues as well.

**Wind:** SE winds continue throughout the morning sustained around 5 – 10 MPH. Its not until the 2 – 4 PM timeframe until the cold front passes with winds shifting more out of the north upon passage. Winds will start picking up after this passage with winds into this evening, especially after 7 – 8 PM, sustained around 15 – 25 MPH and gusts around 30 – 35 MPH.

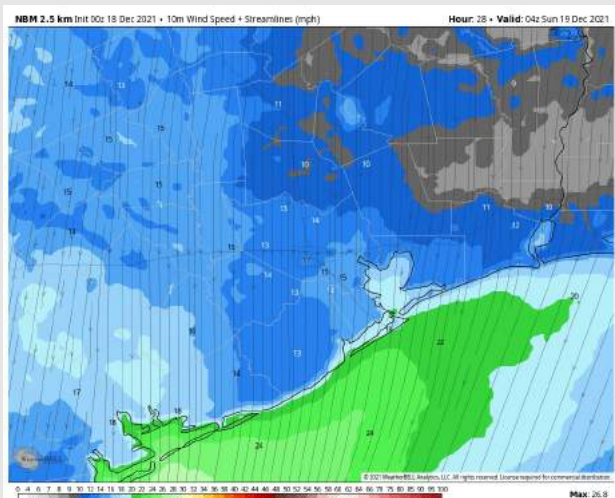
**Temps:** High Temperatures on Sat sit in the low to mid 70s F.

**Visibility:** See slide above for more details on fog Sat AM. Visibilities will be reduced in heavier rain.

## Precip Forecast: 3 PM CT



Wind Speed  
10 PM CT



Severe  
Risk

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



## Forecast Discussion

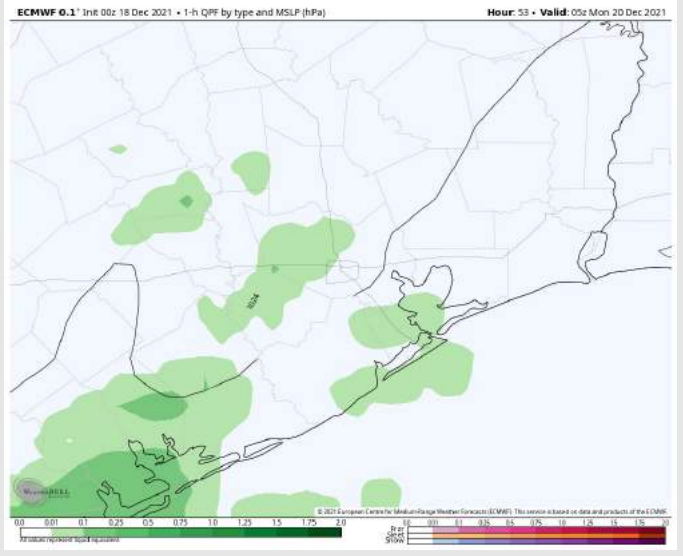
**Precip:** For the most part, Sunday is expected to be a dry day with a few spotty pockets of drizzle/ sprinkles in the early AM hours. Will also need to watch around the 11 PM – Midnight timeframe for precipitation chances to come back into the picture.

**Wind:** Winds will continue to be from the north throughout the day on Sun. Sustained winds continue 15-25 MPH with gusts 30-35 MPH possible at the boarding station through around noon. After noon, winds look to start calming, sustained around 10 -20 MPH with gusts around 25 MPH possible.

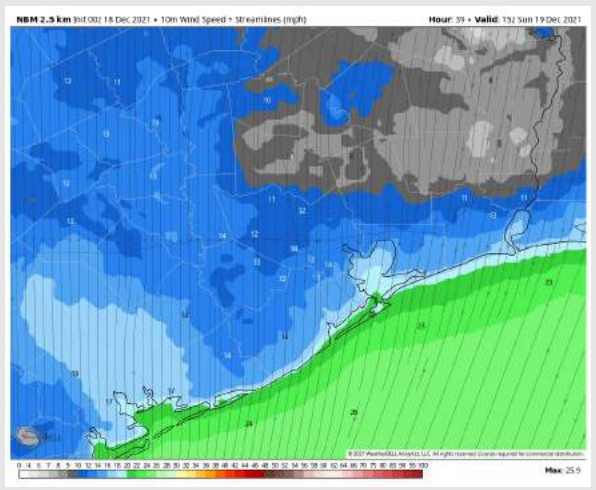
**Temps:** High temps on Sun look to only get into the mid to upper 50s F.

**Visibility:** Currently not favoring fog Sun AM as winds remain elevated out of the north.

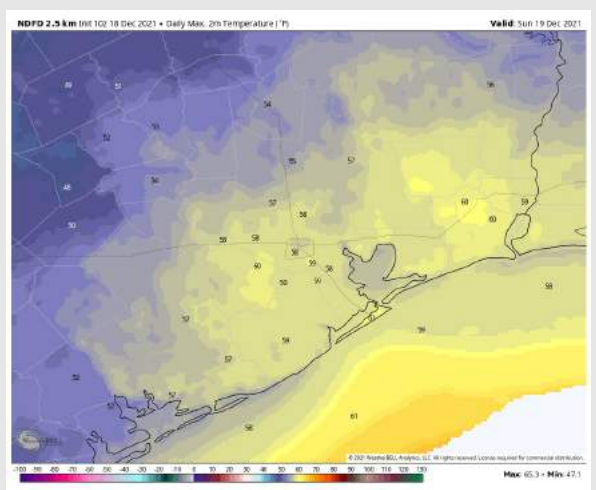
## Precip Forecast: 11 PM CT



Wind Speed  
9 AM CT



High Temps  
Sun





# Houston Pilots: Mon. 12/20/2021



## Forecast Discussion

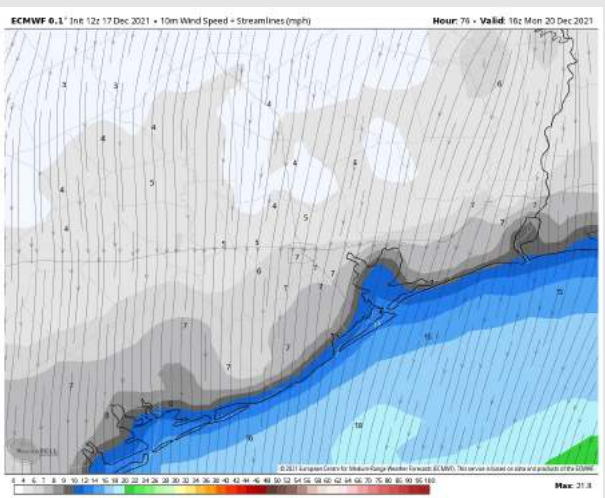
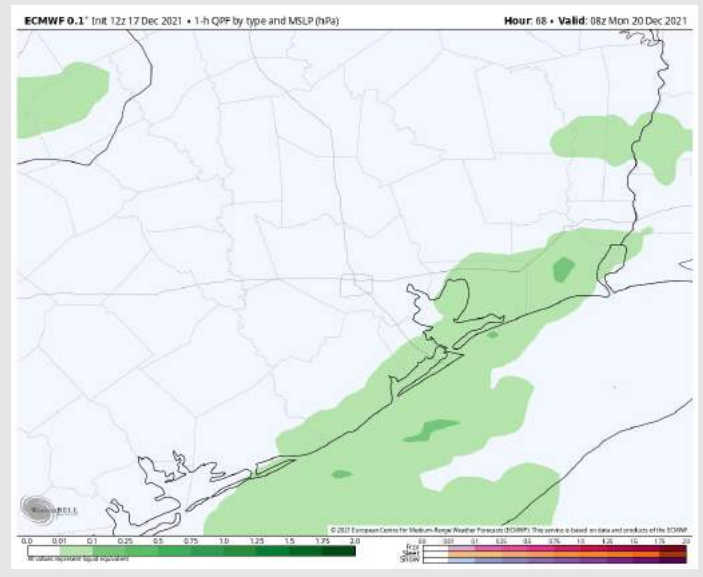
**Precip:** A ~20% chance of a light shower in the early morning hours of Mon. Anticipating much more dry time than not for our stations on Mon.

**Wind:** Sustained winds for Mon AM look to be 13-18 MPH with gusts 18-23 MPH possible at the boarding station though noon. After noon and beyond, sustained winds are closer to 8-13 MPH at the boarding station with gusts 13-18 MPH. Winds remain out of the north on Mon.

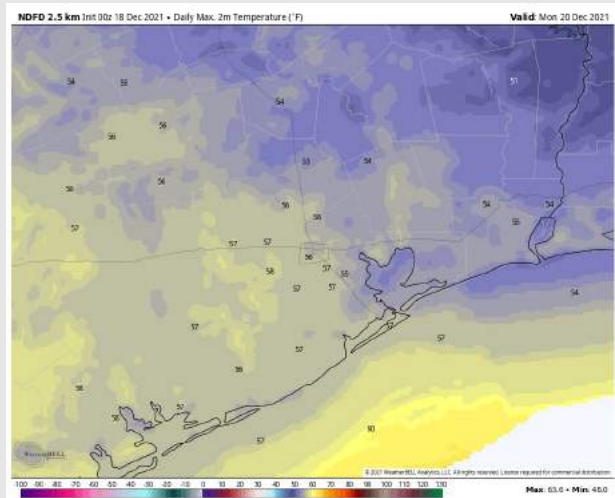
**Temps:** High temperatures on Mon look to sit in the mid 60s F.

**Visibility:** With elevated winds out of the north, currently not anticipating fog for our stations on Mon.

## Precip Forecast: 2 AM CT

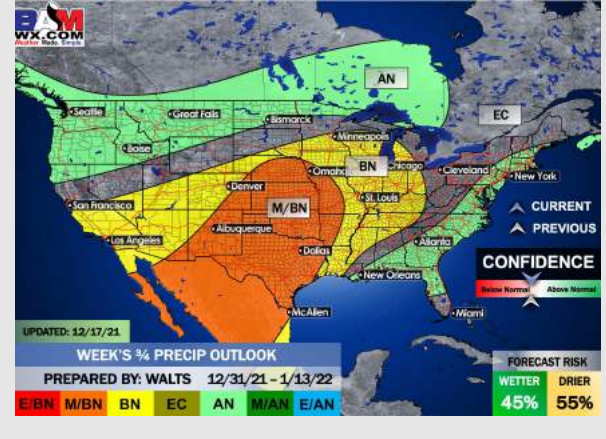
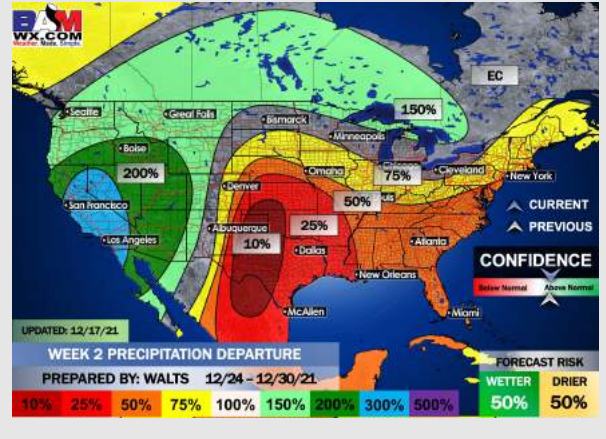
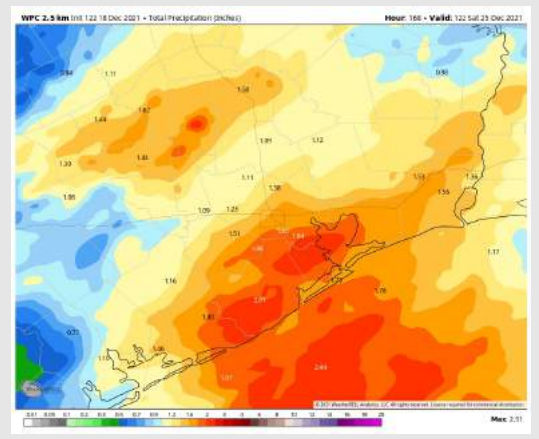
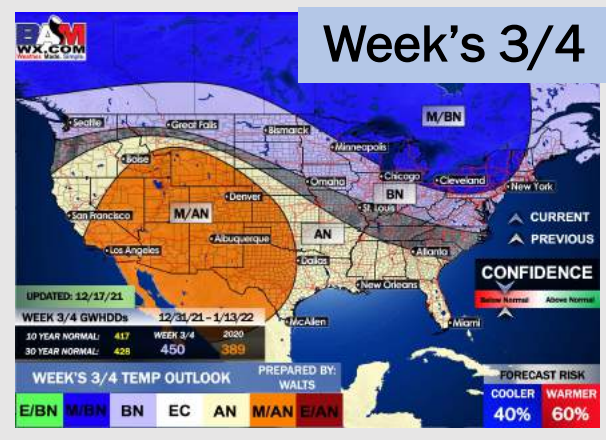
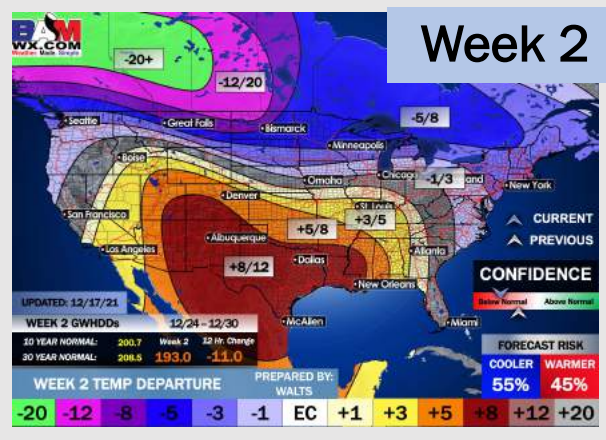
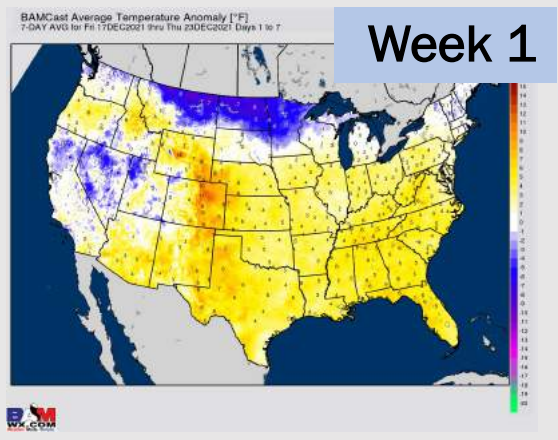


Wind Speed:  
10 AM CT



High Temps  
Monday

# Houston Pilots: 12/18/21



- Cold front moving through today certainly will hold the potential for heavier rain. Aside from this, a generally less active week. Temps are anticipated to remain above normal this 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 below normal risks for precip for the weeks 3 and 4 timeframe.