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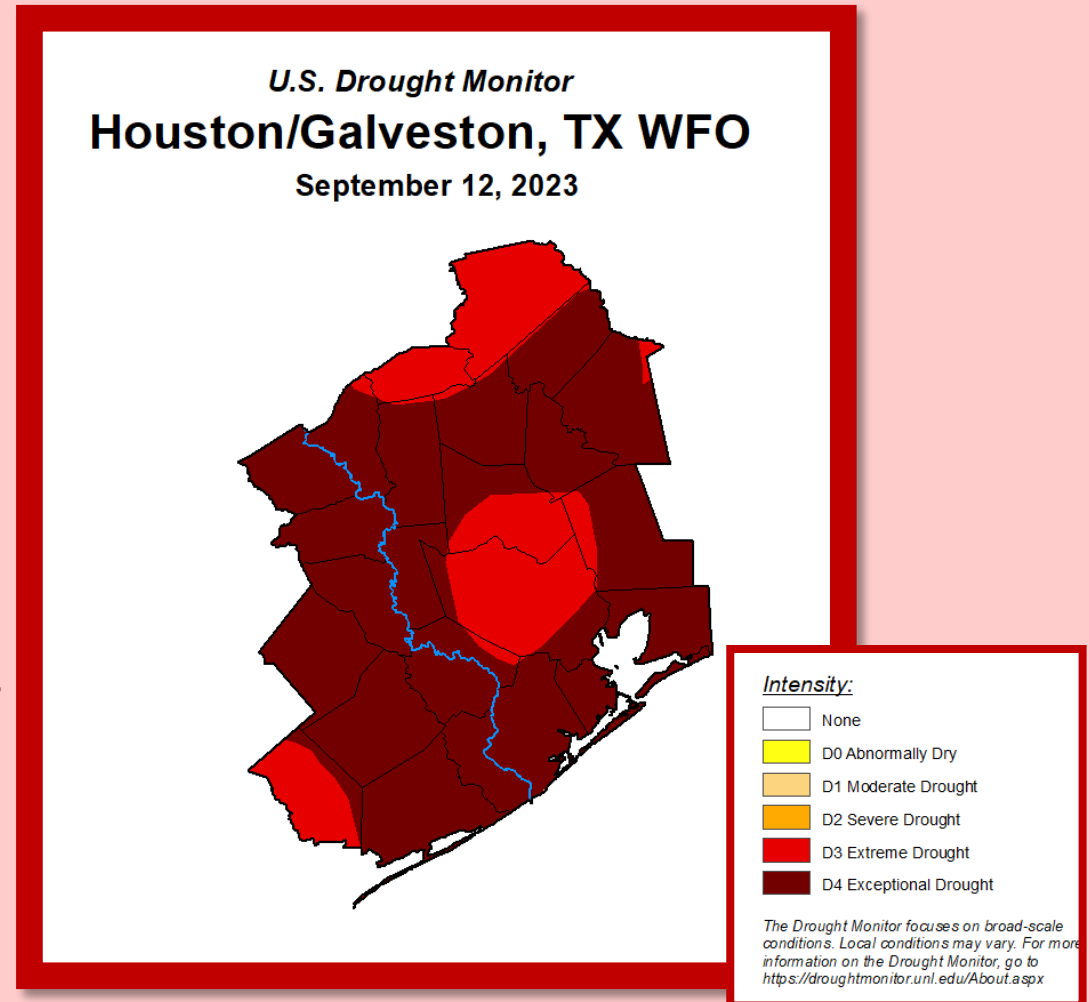
Extreme Summer Heat



NATIONAL WEATHER SERVICE
Houston/Galveston, TX

Summer of 2023 was downright miserable with almost every type of heat record possible broken.

- Houston, College Station, Houston-Hobby, and Palacios all experienced their hottest summers on record.
- City of College Station (112°F), City of Houston (109°F), and Houston-Hobby (109°F) either tied or set new all-time daily high temperatures.
- City of College Station (50 days) and Houston-Hobby (18 days) shattered the previous number of consecutive triple digit heat days.
- A combination of the extreme heat and lack of rainfall led to the expansion of Extreme Drought across SE Texas that we are still recovering from at the end of 2023.
- Increased wildfire activity due to the drought was experienced across the area, especially in the Piney Woods area.



2.

SE Harris EF-3 Tornado



NATIONAL WEATHER SERVICE
Houston/Galveston, TX

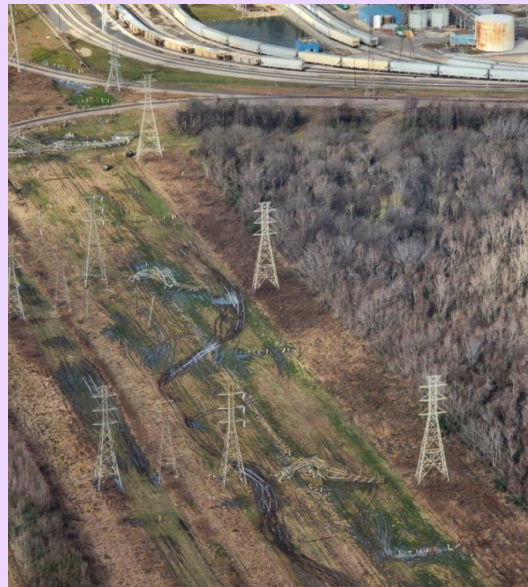
On January 24, 2023, multiple tornadoes touched down in Southeast Texas with one of them prompting our office's first Tornado Emergency.

A severe line of thunderstorms moved across southeast Texas on Tuesday, January 24th, producing damaging winds and multiple tornadoes across the region during the day.

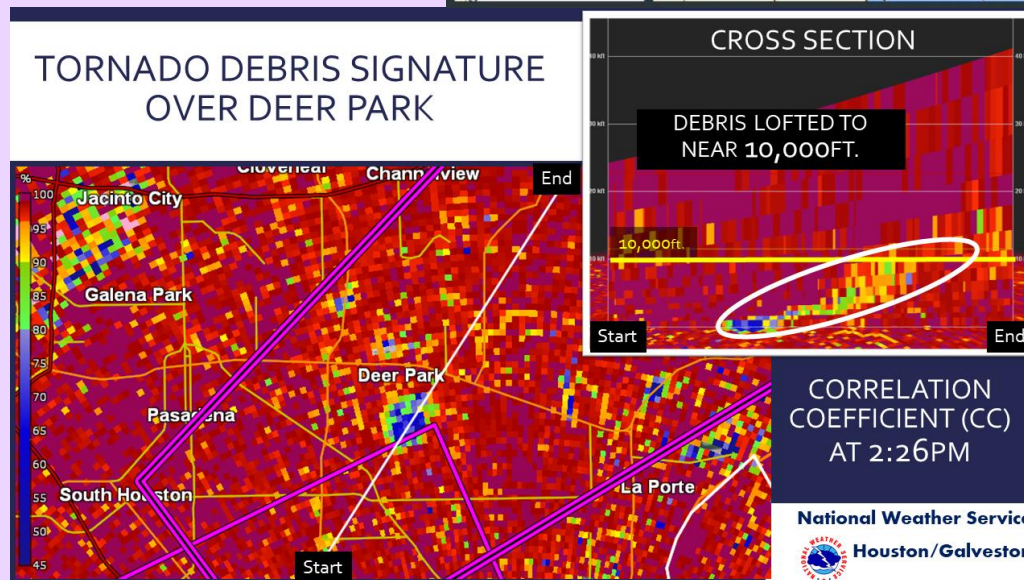
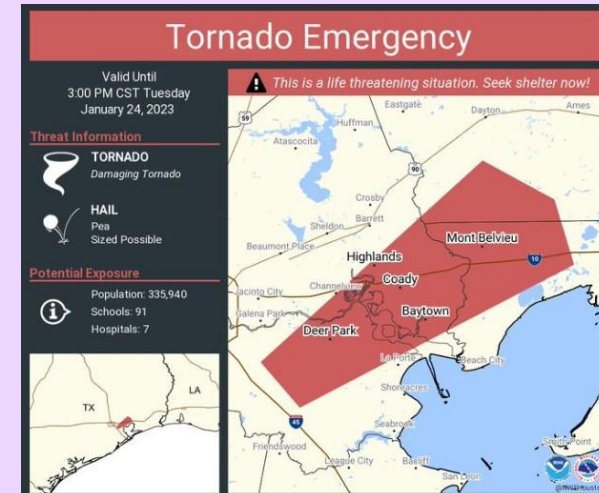
The biggest tornado of the day caused substantial damage within the cities of Pasadena, Deer Park, and Baytown. This tornado resulted in our office's first ever Tornado Emergency issuance. At 2:24pm CST, the Tornado Emergency was issued for Southeastern Harris County as the tornado moved through Pasadena and Deer Park and continued northeastward towards Baytown. There was a clear Tornado Debris Signature with a wide swath of low Correlation Coefficient values moving right into Deer Park.

This tornado had a near-continuous path of EF-1, EF-2 and EF-3 damage across portions of Pasadena, Deer Park, and Baytown (Southeast Harris County). This strong tornado had a path length of 18.7 miles, an estimated maximum peak wind of 140 mph and remained on the ground for about 35 minutes (2:50 PM). The width of the tornado was estimated to be 1000 yards, which is just over half a mile wide.

Nearly 700 homes received damage in Harris County as a result of this tornado with just over 400 of these homes suffering at least major damage. So far, the estimated damages to public property within the county stands at ~\$6.5 million.



Collapsed electrical transmission lines spotted from an aerial survey northeast of Deer Park were the reasoning behind this tornado being rated an EF-3.



3.

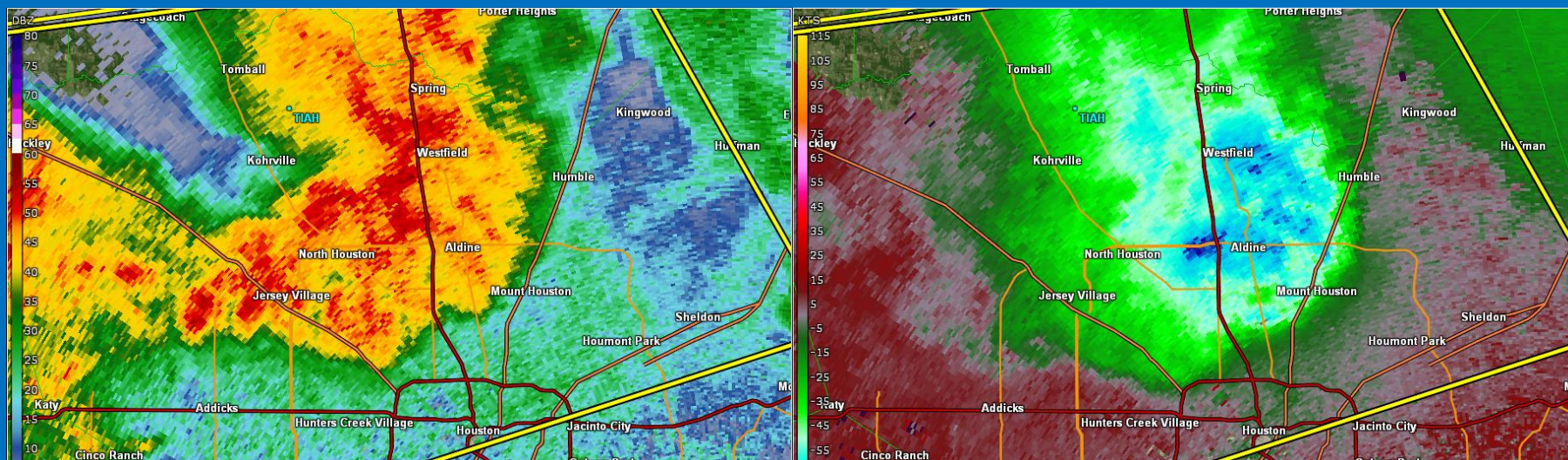
June 21st Harris County Severe Thunderstorm



NATIONAL WEATHER SERVICE
Houston/Galveston, TX

A line of severe thunderstorms moved through Southeast Texas in the late evening hours of June 21st. This line of storms resulted in the highest wind gust ever reported at Bush Intercontinental Airport (City of Houston) – **97 MPH**. There were reports of damaged buildings and trees throughout Montgomery and Harris counties.

This beat the old record of 82 MPH set during Hurricane Ike in 2008. Wind observations at Bush Intercontinental Airport started in 1969.



KHGX Radar Imagery – 8:58pm CDT 5/23/23

Other Notable Gusts

Spring - 80 MPH

The Woodlands - 70 MPH

Tomball - 62 MPH

Texas A&M Kyle Field - 61 MPH

Madisonville - 60 MPH

Pearland - 58 MPH

Houston Hobby - 51 MPH

4.

Deadly May 23rd Huntsville Downburst



NATIONAL WEATHER SERVICE
Houston/Galveston, TX

An isolated severe thunderstorm moved through Walker and Montgomery counties on May 23rd. This storm produced a strong downburst of wind that resulted in damage across multiple locations between Huntsville and Conroe.

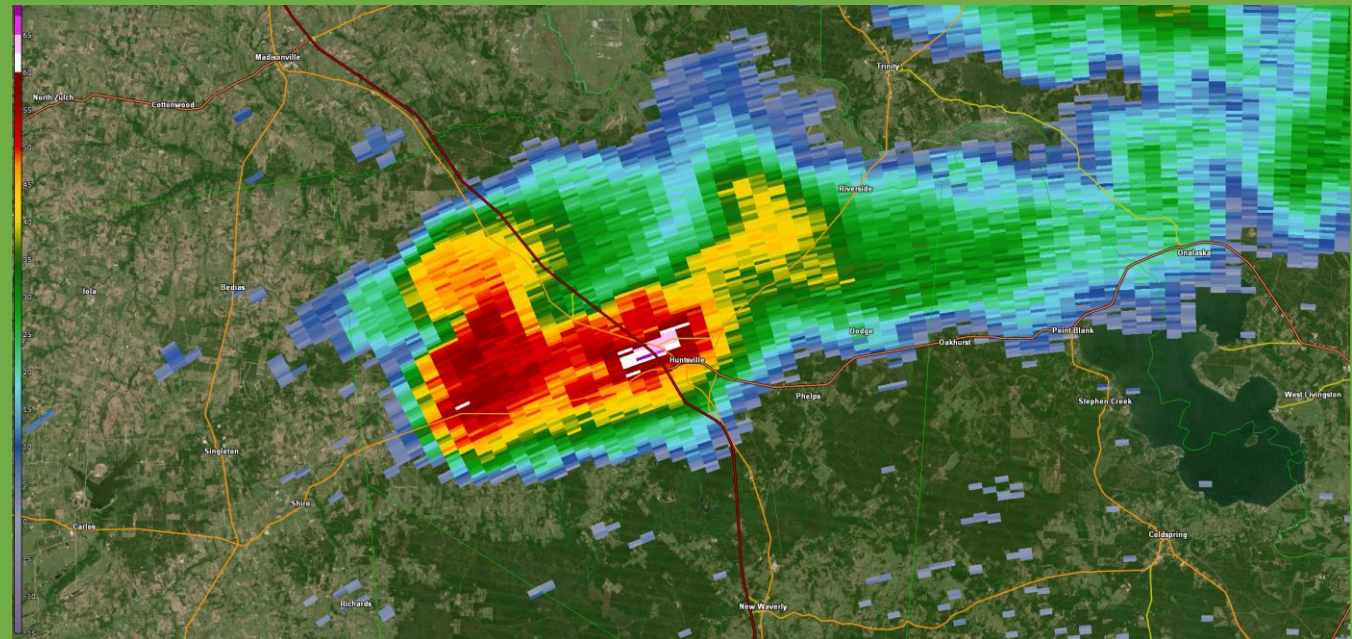
One of the reports came from a home construction site which resulted in two fatalities and an additional seven injuries when the home under construction collapsed.

The estimated wind speeds that the downburst produced was between 60 and 80mph.



Photo of a large tree uprooted that fell into a home near Huntsville, TX.

KHGX Radar Imagery – 2:38pm CDT 5/23/23

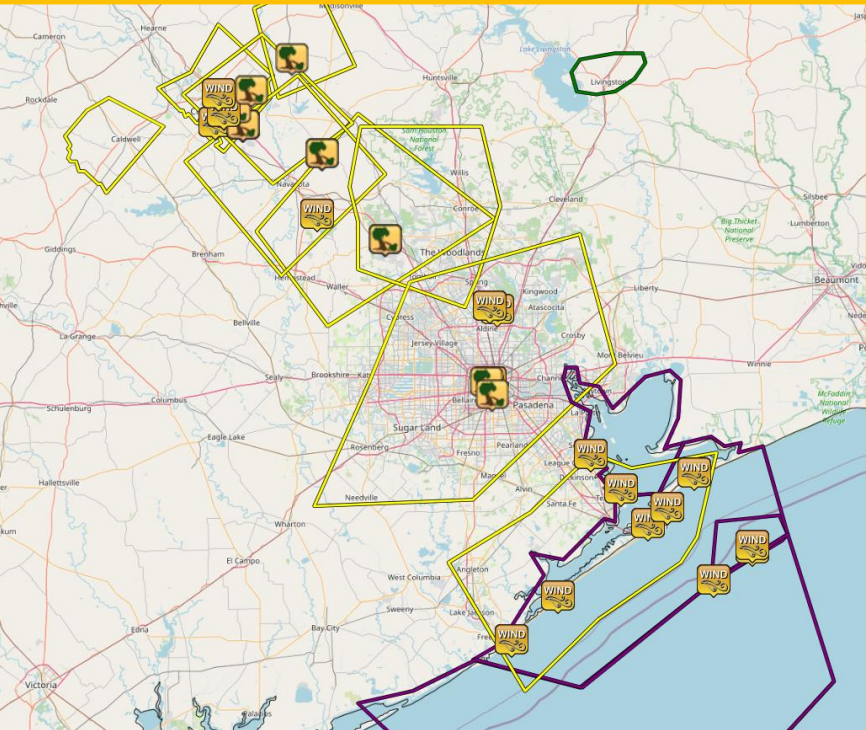


June 3rd Brazos Destructive Thunderstorm

June started out with a bang as severe thunderstorms moved through the area starting in the evening of the 3rd and continuing into the early morning hours of the 4th. These storms first passed through the northern Brazos Valley area, then continued southeasterly through the area passing through the City of Houston and Galveston Island. Multiple reports of severe wind gusts and damage were reported through the night.

Map of all Severe Thunderstorm Warnings (yellow polygons) and Wind Damage/Gusts Storm Reports (icons).

Map courtesy of Iowa State University IEM.



When the storms moved through the College Station area, a weather station located at Kyle Field reported a wind gust of 85 MPH. This resulted in the Severe Thunderstorm Warning to be upgraded to include Destructive impacts, which was the first Destructive Severe Thunderstorm Warning issued by our office.

