



Houston, TX

Derecho

May 16, 2024

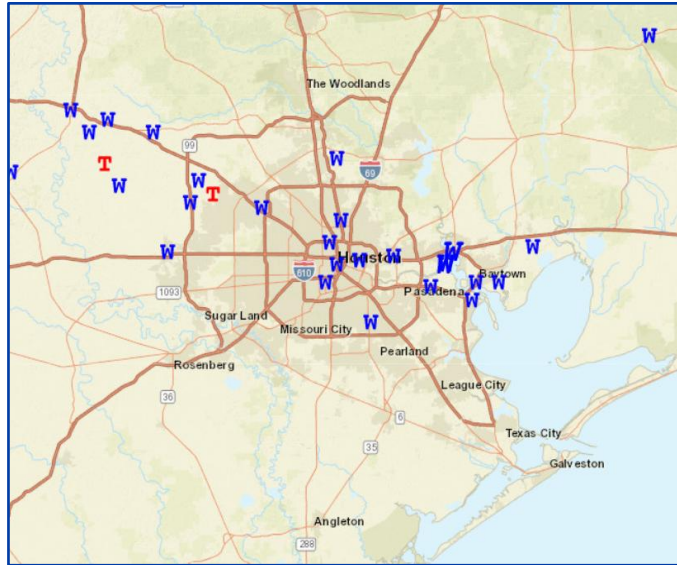
Houston Derecho

A derecho swept through the Greater Houston area during the late afternoon and early evening, producing straight-line wind gusts as high as 100 mph in downtown Houston. Three EF-1 tornadoes were also confirmed. The derecho caused significant tree and building damage, as well as extensive damage to transmission lines. This led to significant power outages across the city, some of which lasted into the following week. Climavision's HIREs model captured the magnitude of the storm 7 hours before it struck.

Note: each SPC wind report is 50+ knots, or 58+ mph, the threshold for a severe thunderstorm.



Credit: National Weather Service



SPC Storm Reports



Credit: National Weather Service

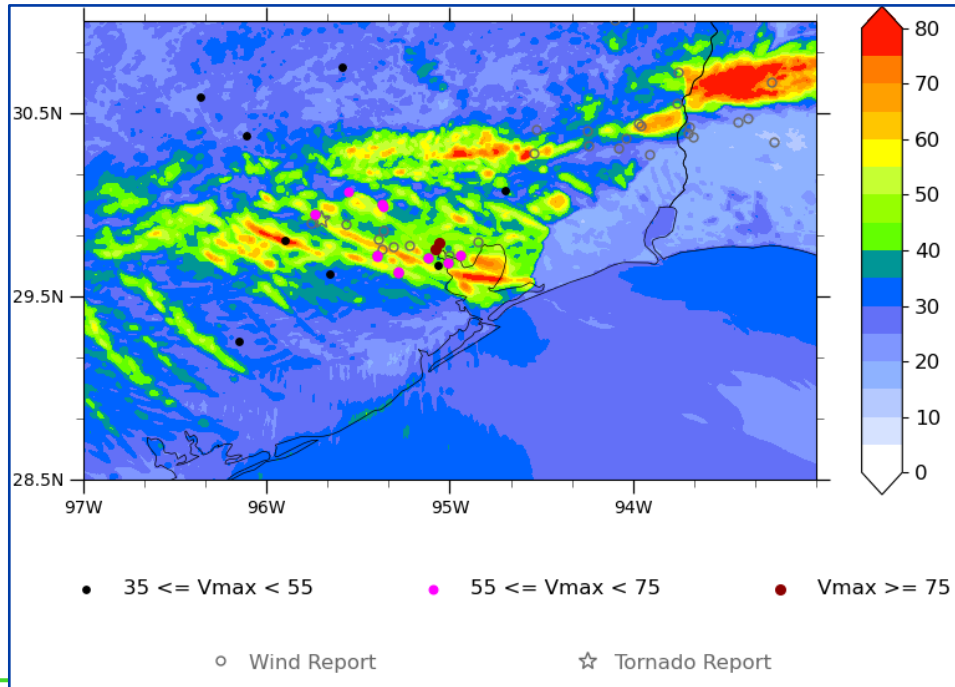
May 16, 2024

Houston Derecho

23 UTC 16 May 2024 – 02 UTC 17 May 2024

Initial time: 16 UTC 16 May 2024

HORIZON AI - HIRES

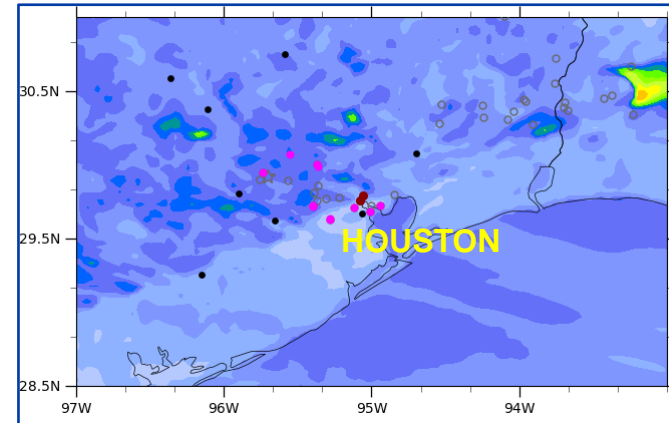


Model recorded 10-m maximum wind speed (shaded)

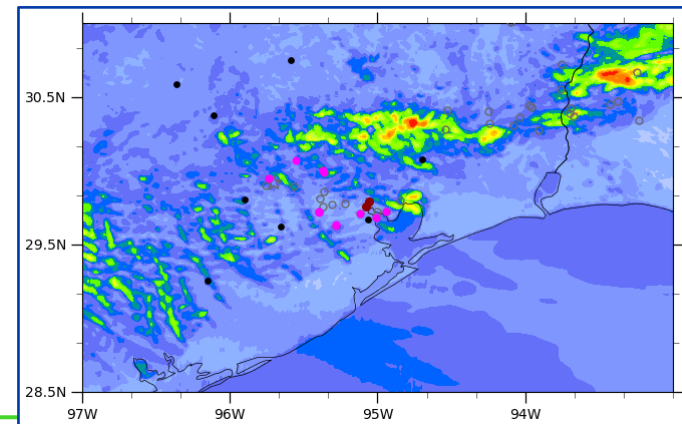
vs

Observations from NWS & ASOS (markers)

HRRR



HIRES but with MYNN



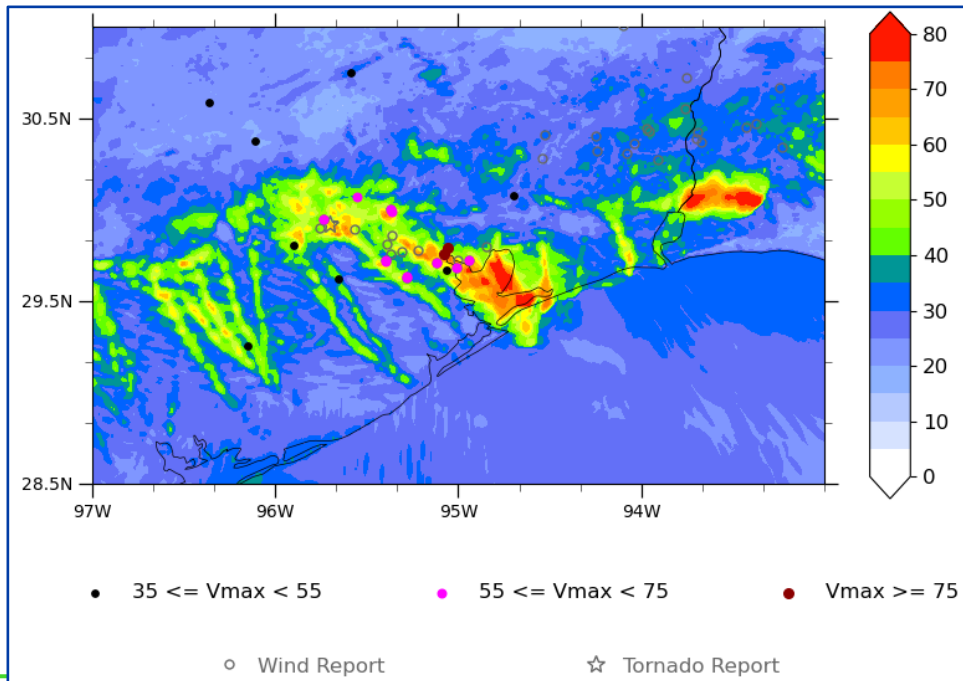
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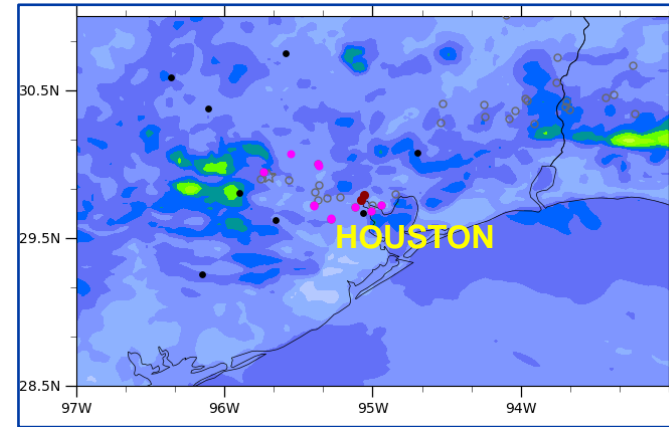


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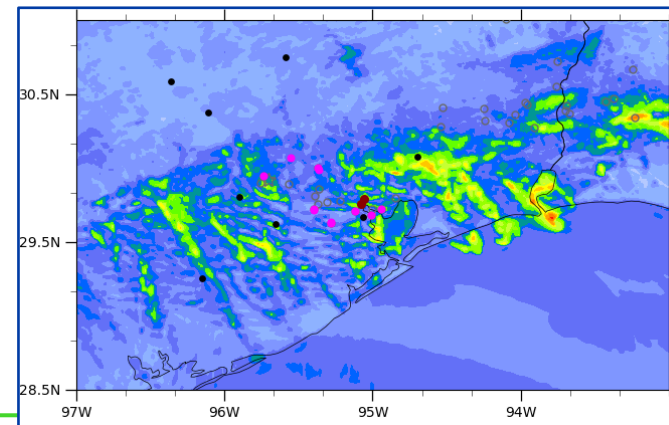
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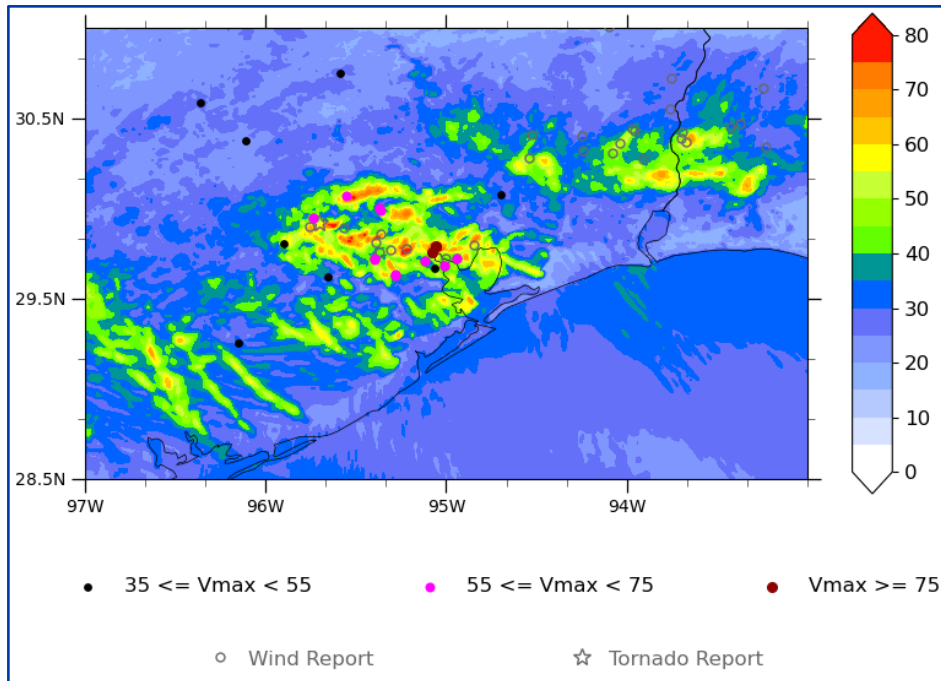
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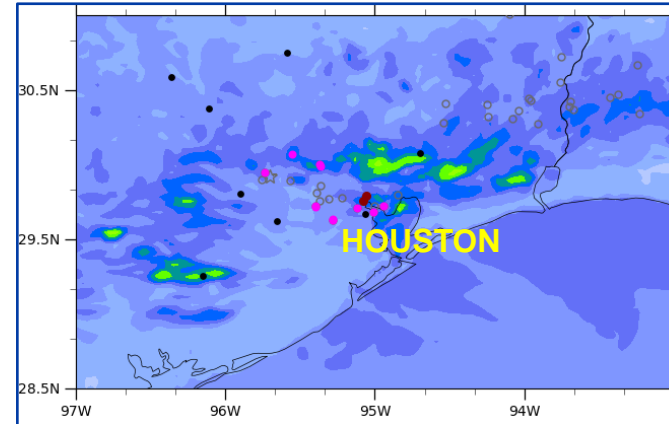


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