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Mesoscale Discussion 739

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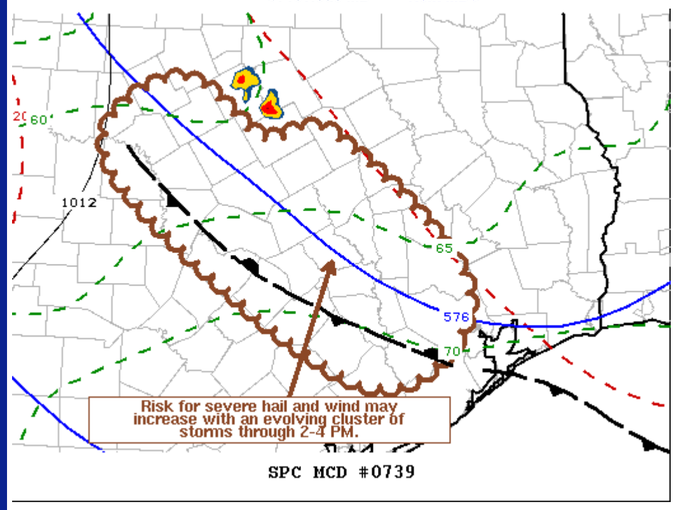

Mesoscale Discussion 0739
NWS Storm Prediction Center Norman OK
1208 PM CDT Wed May 27 2020

Areas affected...Parts of central into southeast Texas

Concerning...Severe potential...Watch possible

Valid 271708Z - 271915Z

Probability of Watch Issuance...40 percent

SUMMARY...The initiation of severe thunderstorm development has seemed more probable later this afternoon near or north of the Edwards Plateau vicinity. However, further increase and intensification of thunderstorms now south of the Dallas-Forth Worth Metroplex seems probable, and could be accompanied by increasing risk for severe hail and wind to the west of the Interstate 45 corridor through 19-21Z. Trends are being monitored for the possibility of a severe weather watch.

DISCUSSION...Recent thunderstorm development to the south of the Dallas-Fort Worth metroplex probably has been aided by an initial area of strengthening mid-level forcing for ascent associated with an impulse pivoting around the larger-scale south central Plains mid-level low. This appears to have been supported by relatively weak CAPE, due to seasonably modest low-level moisture around the Metroplex. And model output has indicated a greater convective signal with a forecast increase in forcing for ascent with another perturbation, roughly around the Abilene/San Angelo/Brownwood areas during the 19-21Z time frame.

However, southeast of the ongoing storms, heating of a more moist boundary layer (with mid/upper 60s F surface dew points) is already well underway, with mixed-layer CAPE likely to continue to increase in excess of 2000 J/kg through early to mid afternoon. Increasing southeasterly inflow of this air, beneath 30-40+ kt northwesterly 500 mb flow, probably will support substantive further updraft intensification, and upscale convective growth over the next few hours. This may be accompanied by increasing risk for severe hail, and favorable shear could contribute to the evolution of an increasingly organized convective system with potential for producing strong wind gusts, near/west of the Interstate-45 corridor.

..Kerr/Hart.. 05/27/2020

...Please see www.spc.noaa.gov for graphic product...

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