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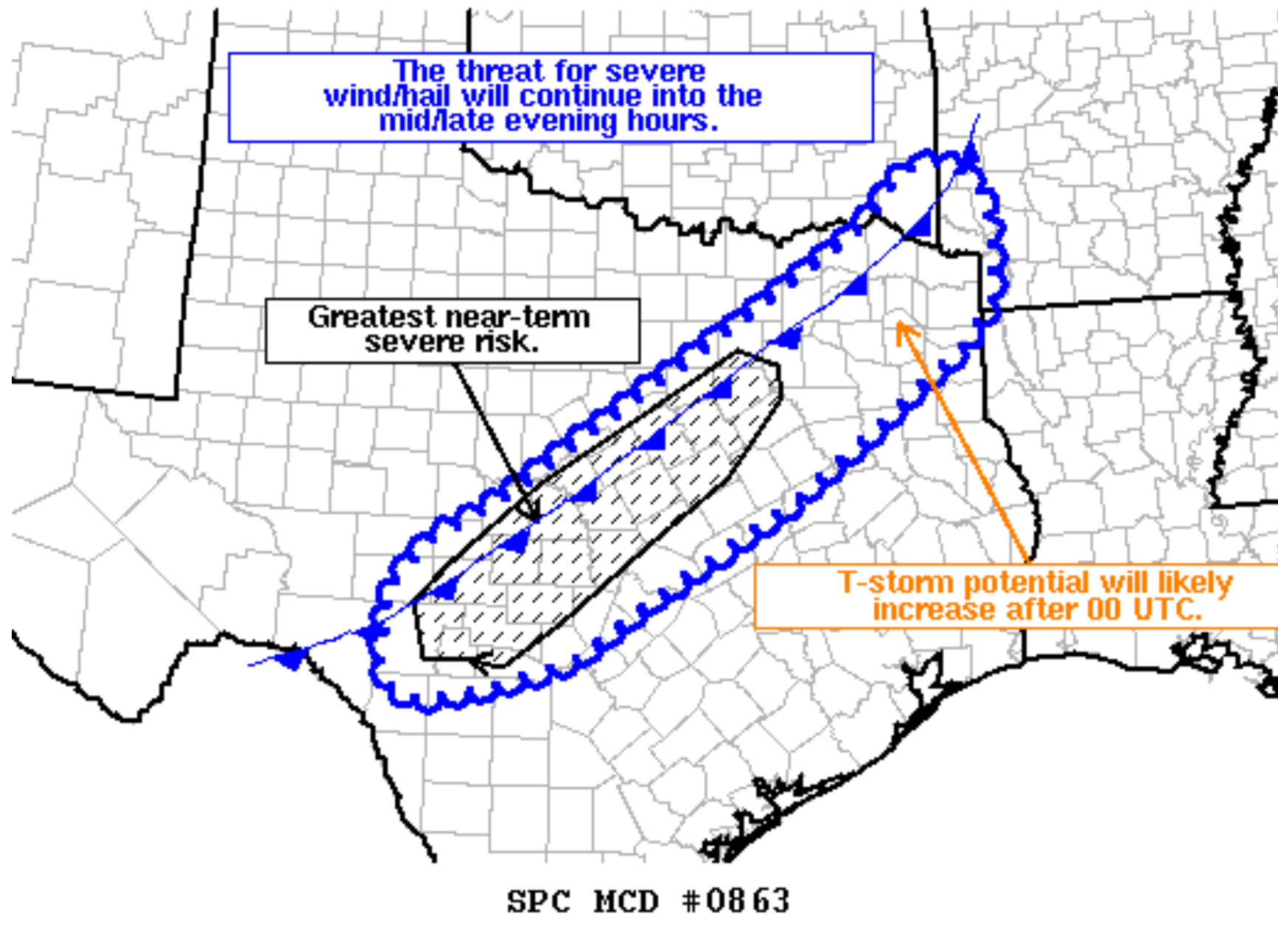
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Mesoscale Discussion 863

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Mesoscale Discussion 0863
NWS Storm Prediction Center Norman OK
0614 PM CDT Sat May 21 2022

Areas affected...Central Texas to the Arklatex region

Concerning...Severe Thunderstorm Watch 258...

Valid 212314Z - 220115Z

The severe weather threat for Severe Thunderstorm Watch 258 continues.

SUMMARY...The threat for damaging winds and severe hail continues across [ww 258](#) - primarily along and west of the I-35 corridor in the near term. Thunderstorm development across northeast TX and the Arklatex region remains likely later this evening.

DISCUSSION...Latest regional reflectivity data continues to show isolated to scattered thunderstorms developing along and west of the I-35 corridor across central TX. GOES IR imagery and MRMS vertically integrated ice trends reveal the pulse-like nature of this convection with several intense, but relatively short lived updrafts. The overall poor organization of this convection so far is largely attributable to storm motions along/behind the cold frontal boundary (leading to destructive storm interactions) and weak storm-relative winds through the column. However, the combination of 65-70 F dewpoints and steep mid-level lapse rates ahead of the cold front are maintaining a favorable thermodynamic environment for intense updrafts. A few 1 inch hail reports support this idea, and this general trend should continue for the next few hours.

To the northeast along the front, a few attempts at convective initiation have been noted, but weak forcing for ascent has precluded robust CI so far. A southward surge of the cold front after 00 UTC is depicted in most guidance, and should boost the potential for isolated to scattered thunderstorms with an attendant severe hail/wind threat.

..Moore.. 05/21/2022

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

ATTN...WFO...LZK...SHV...TSA...FWD...EWX...SJT...

LAT...LON	29740060	30380057	30930007	31199950	31539900	32039825
	32749713	33499592	33889528	34389487	34489431	34129394
	33589388	33159393	32749423	32069516	31309619	30589745
	29809856	29549945	29469985	29410023	29470049	29740060

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