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City, St

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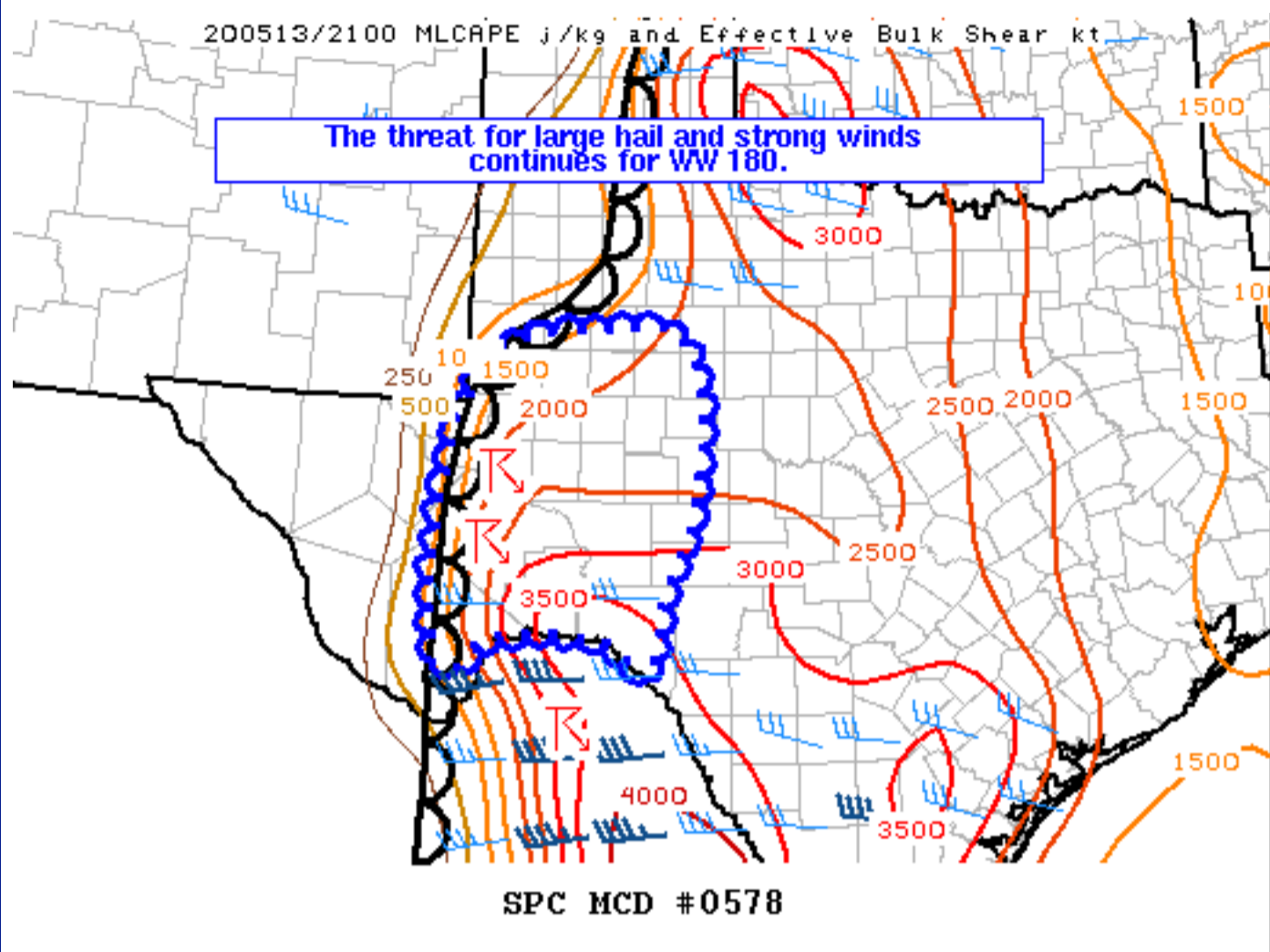
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Mesoscale Discussion 578

< Previous MD Next MD >



Mesoscale Discussion 0578
 NWS Storm Prediction Center Norman OK
 0520 PM CDT Wed May 13 2020

Areas affected...southwest Texas

Concerning...Severe Thunderstorm Watch 180...

Valid 132220Z - 132315Z

The severe weather threat for Severe Thunderstorm Watch 180 continues.

SUMMARY...Large hail and strong winds remain a hazard with thunderstorms across WW 180. Recent trends suggest a lack of organization due to weak deep-layer shear. Congealing outflow may allow storms to move farther east into better low-level moisture and intensify, but the evolution of these storms is uncertain at this time.

DISCUSSION...Storms across the western portion of WW 180 have struggled to maintain organized structures over the last hour. These storms are ongoing in the immediate vicinity of a diffuse dryline, in a relative minima of mid-level flow. While thermodynamics are supportive of severe weather with SPC mesoanalysis indicating MLCAPE of 1500-2000 J/kg, bulk shear from the MAF VWP is weak, at or below 25 kt. The weak mid-level flow has kept storms close to the dryline and relatively disorganized. Competing updrafts and downdrafts have limited the intensity to marginally severe for now. Conglomerating outflow may eventually push storms farther southeast into higher MLCAPE around 3500 J/kg, and marginally better deep-layer shear. Here, storms would pose a more substantial damaging wind threat. However, recent hi-res guidance has suggested this is not certain. Meanwhile, the greatest severe threat corridor will likely remain close to the dryline southwest of MAF.

..Lyons/Hart.. 05/13/2020

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

ATTN...WFO...EWX...SJT...MAF...

LAT...LON 29480305 29510330 29610329 30170340 31060330 31800315
 32290290 32510266 32660231 32720159 32740105 32770078
 32470048 32000041 31620041 31210045 30690059 30120086
 29800087 29480092 29400094 29440103 29790148 29840210
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