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Mesoscale Discussion 568

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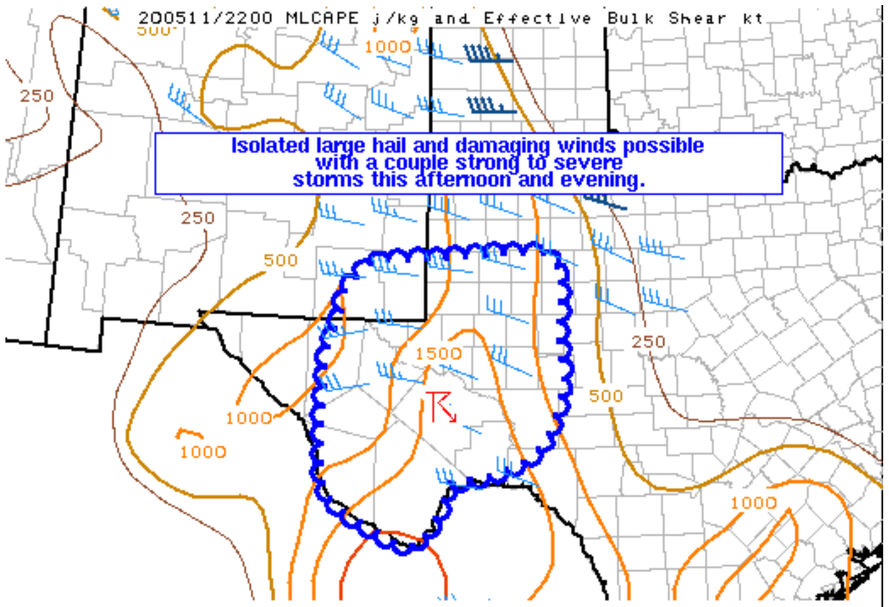

Mesoscale Discussion 0568
NWS Storm Prediction Center Norman OK
0618 PM CDT Mon May 11 2020

Areas affected...southeast New Mexico and southwest Texas

Concerning...Severe Thunderstorm Watch 176...

Valid 112318Z - 120045Z

The severe weather threat for Severe Thunderstorm Watch 176 continues.

SUMMARY...Gradual intensification of multi-cell clusters and isolated supercells has been noted over the last hour. Storms will likely maintain intensity and pose a risk for isolated large hail and damaging wind gusts this evening.

DISCUSSION...Strong and severe storms have started to mature across southeast New Mexico and southwest Texas. 22z SPC mesoanalysis showed 1000-1500 J/kg of MLCAPE supported by dewpoints in the upper 40s to mid 50s and surface temperatures in the upper 70s to 80s F. Effective shear magnitudes of 25 to 30 kt will support some organization into multi-cell clusters and supercells capable of large hail and damaging winds. Hi-res guidance shows some upscale growth is possible this evening as cold pools become better organized.

Shear is greatest farther north, closer to the main shortwave trough moving through the region from the northwest. A more favored corridor of severe potential is taking shape from near KSNK to KFST. Here, instability and stronger vertical shear have the best overlap and a supercell near KFST has recently produced a 58 kt gust at 2257 and 1.75 inch hail. A favorable environment should keep severe potential high with this storm and any others that are able to develop. Farther southwest, greater MLCAPE of 1500-2000 J/kg from warmer temperatures in the upper 80s to near 90 F will still support isolated severe potential, mainly in the form of damaging wind gusts, with thunderstorms developing off of the higher terrain near the Big Bend.

..Lyons/Grams.. 05/11/2020

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

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