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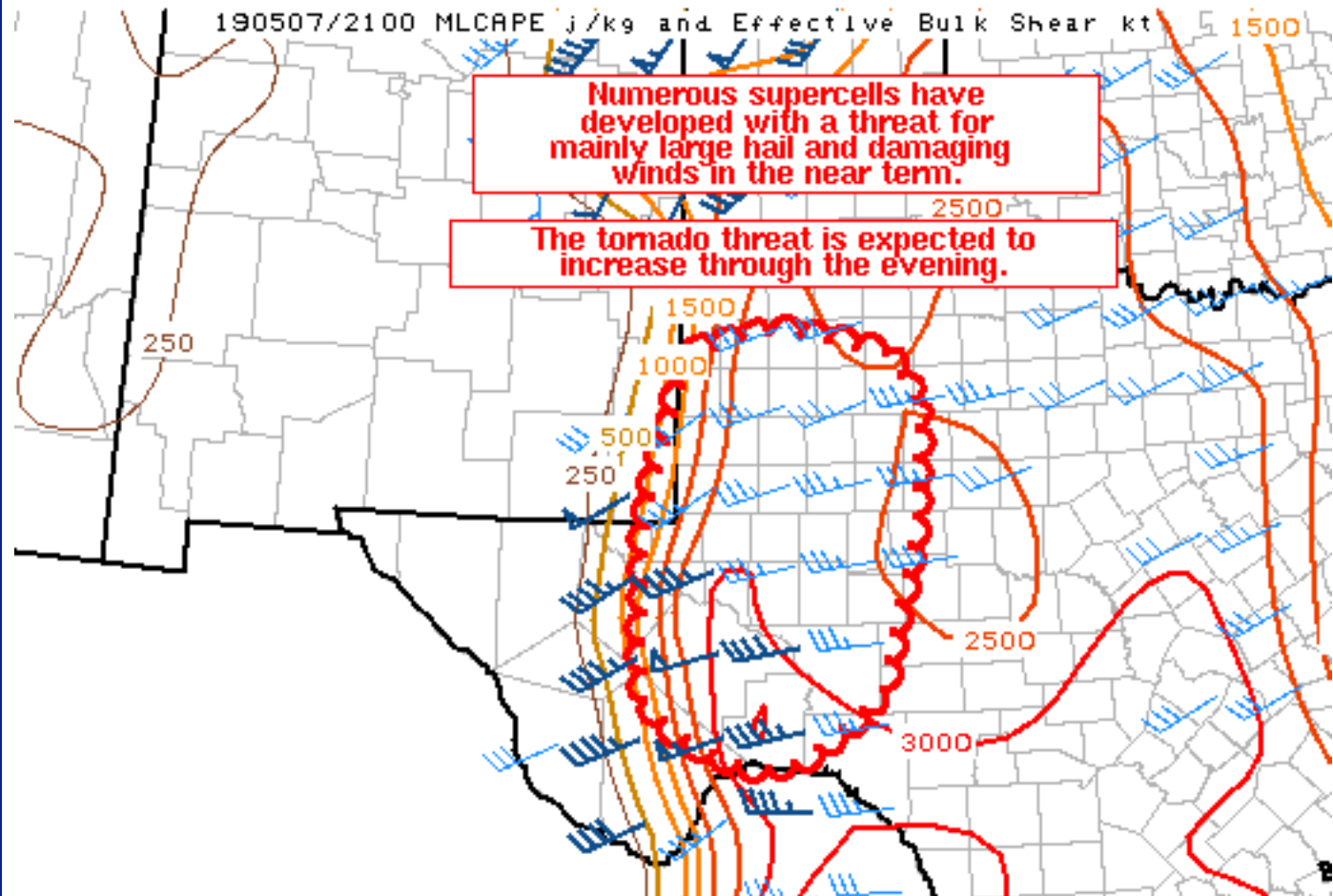
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## Mesoscale Discussion 574

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SPC MCD #0574

Mesoscale Discussion 0574

NWS Storm Prediction Center Norman OK

0501 PM CDT Tue May 07 2019

Areas affected...West Texas

Concerning...Tornado Watch 145...

Valid 072201Z - 072330Z

The severe weather threat for Tornado Watch 145 continues.

SUMMARY...Numerous supercells have developed along and ahead of the dryline in West Texas. These supercells will pose a threat for mainly large hail and damaging winds in the near term. The tornado threat is expected to increase through the evening.

DISCUSSION...Supercells have developed along the dryline in West Texas. These storms will likely remain mostly discrete through the evening give the stronger forcing is farther north. A 20Z MAF sounding shows MLCAPE in excess of 2000 J/kg with 40 knots of



effective shear which is more than adequate for strong supercells. The environment is expected to become even more conducive through the evening as mid-level winds increase and low-level moisture continues to increase. Low-level shear was quite weak on the 20Z MAF sounding, but low-level shear is expected to increase substantially over the next few hours as the low-level jet strengthens and winds continue to back in response to cyclogenesis currently occurring in eastern New Mexico. Therefore, the tornadic potential is expected to increase through the evening.

The strongest storm is currently located in Pecos county where a discrete supercell is showing strong low-level rotation and has recently been reported to have a tornado. In addition, MRMS MESH suggests hail in excess of 2 inches may also be possible with this storm.

..Bentley.. 05/07/2019

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