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Mesoscale Discussion 537

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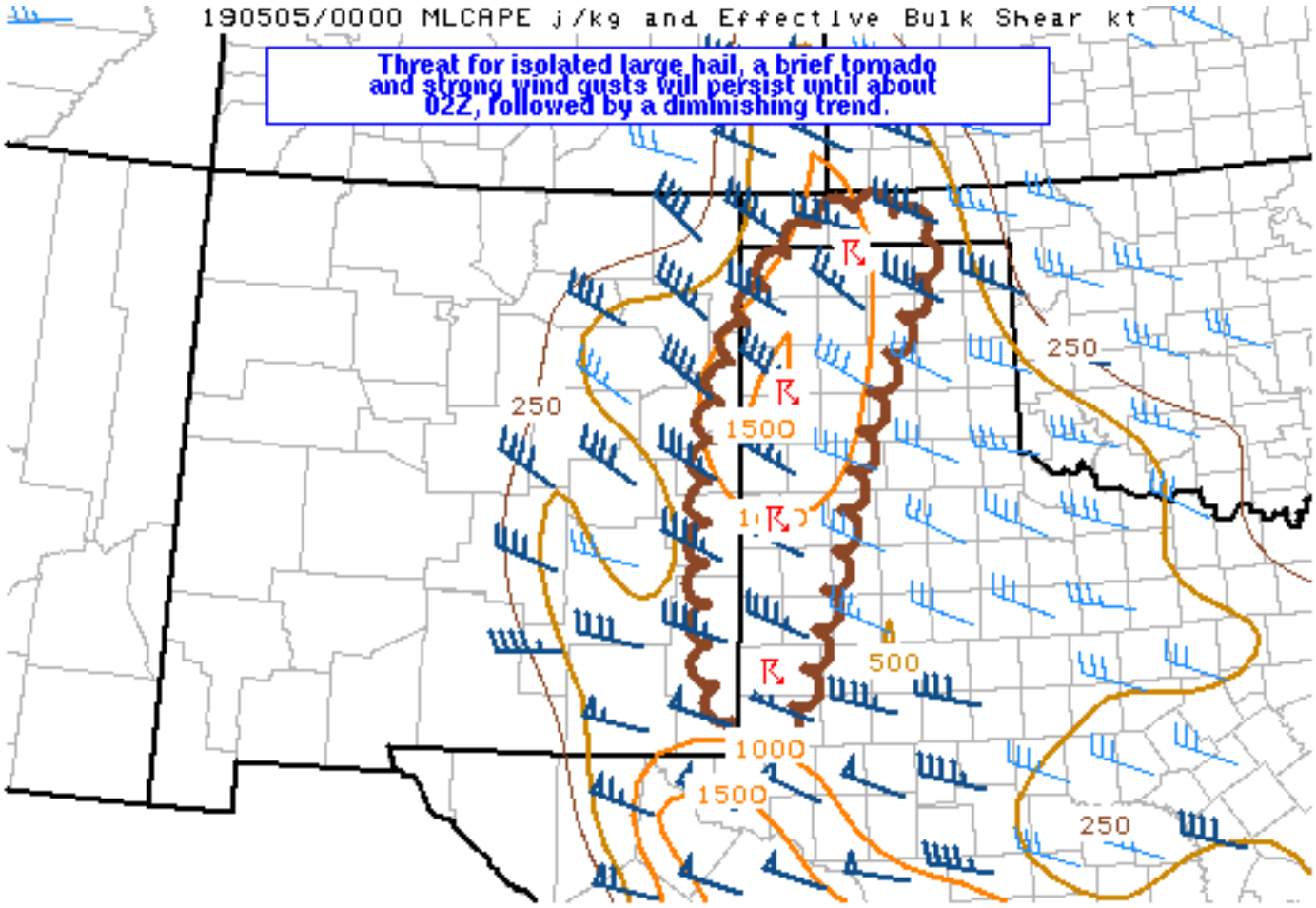

SPC MCD #0537

Mesoscale Discussion 0537
NWS Storm Prediction Center Norman OK
0748 PM CDT Sat May 04 2019

Areas affected...far eastern New Mexico through western Texas

Concerning...Severe potential...Watch unlikely

Valid 050048Z - 050215Z

Probability of Watch Issuance...20 percent

SUMMARY...Threat for isolated large hail, locally strong wind gusts and a brief tornado will persist through around 02Z, followed by a diminishing trend. The coverage and duration of threat is expected to remain too sparse and limited in duration for a WW.

DISCUSSION...Early this evening isolated storms including a few supercells persist from the Oklahoma Panhandle through west TX into far southeast NM. The 00Z RAOBs from Amarillo and Midland show 500-1000 J/kg MLCAPE, steep mid-level lapse rates and sufficient

(30-40 kt) effective bulk shear. This environment will continue to support some severe threat through about 02Z. However, an inversion at the base of the elevated-mixed layer (around 750mb) evident on both the Amarillo and Midland soundings suggests convective inhibition will increase substantially as the boundary layer begins to stabilize, and this should contribute to a gradual weakening by mid evening.

..Dial/Grams.. 05/05/2019

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

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