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Mesoscale Discussion 717

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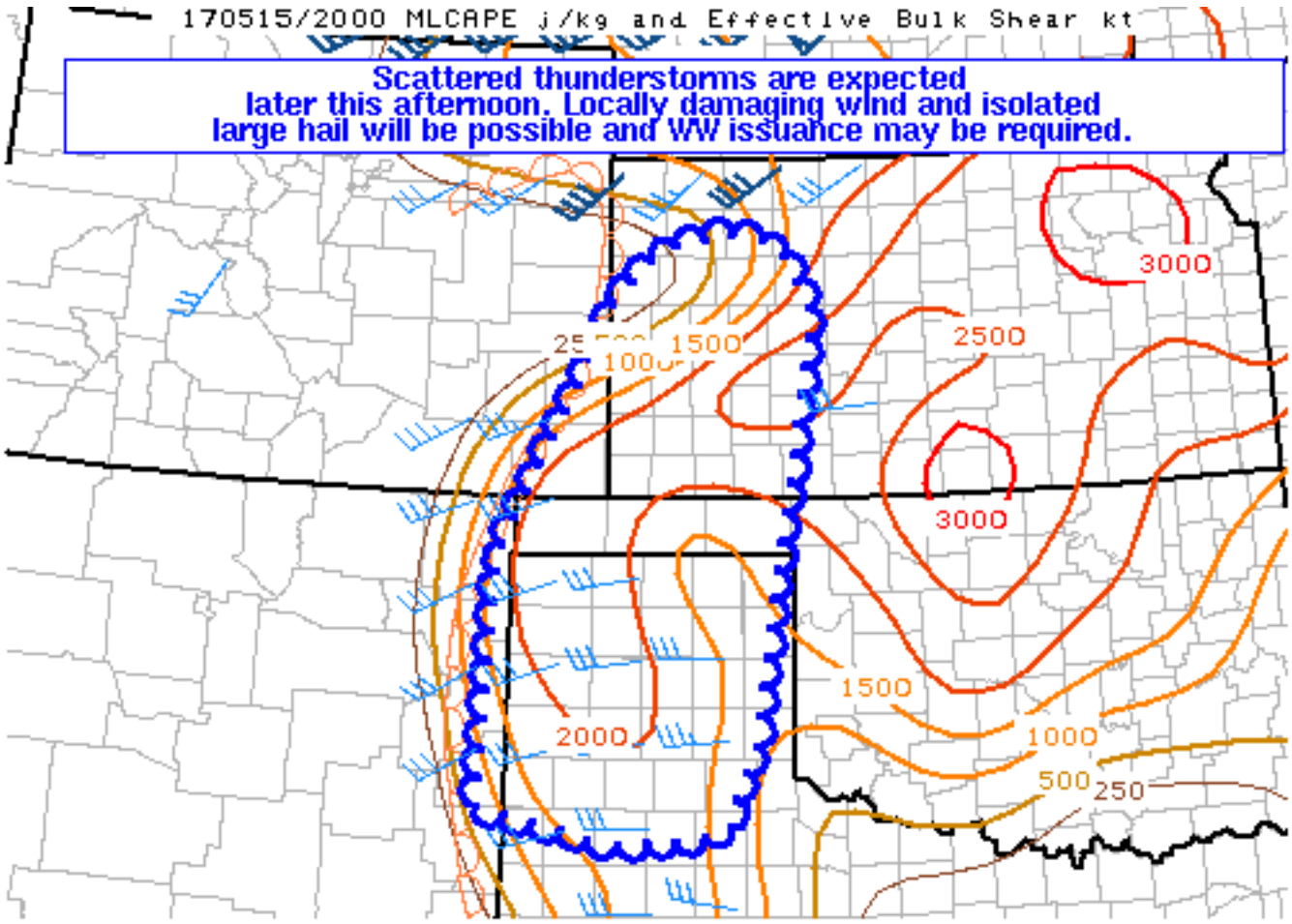

SPC MCD #0717

Mesoscale Discussion 0717
NWS Storm Prediction Center Norman OK
0316 PM CDT Mon May 15 2017

Areas affected...Western KS...OK/TX Panhandles...Extreme southeast CO...Far northeastern NM

Concerning...Severe potential...Watch possible

Valid 152016Z - 152200Z

CORRECTED FOR WEB GRAPHIC

Probability of Watch Issuance...60 percent

SUMMARY...Scattered thunderstorm development is expected later this afternoon, with a threat of locally damaging wind and isolated large hail. Watch issuance is possible by 21Z.

DISCUSSION...Latest satellite imagery indicates surface-based cumulus beginning to develop over portions of west TX/TX panhandle,

and also over southeast CO and far eastern NM. As strong heating continues this afternoon within a modestly moist boundary layer, deep convection is expected to initiate by 21-22Z. There are two zones of possible initiation -- one along the primary moisture gradient across far eastern NM into southeast CO, and the second further east along a low-level confluence zone noted in recent surface obs from western KS into the central TX panhandle.

As storms intensify later this afternoon, moderate MLCAPE OF 1500-2000 J/kg and effective shear of 30-40 kts will be sufficient for some storm organization, with a few supercells possible. Relatively large temperature/dewpoint spreads will result in a damaging wind threat, while steep midlevel lapse rates will support a threat of severe hail with the strongest cells.

..Dean/Kerr.. 05/15/2017

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

ATTN...WFO...DDC...GLD...LUB...AMA...PUB...ABQ...

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