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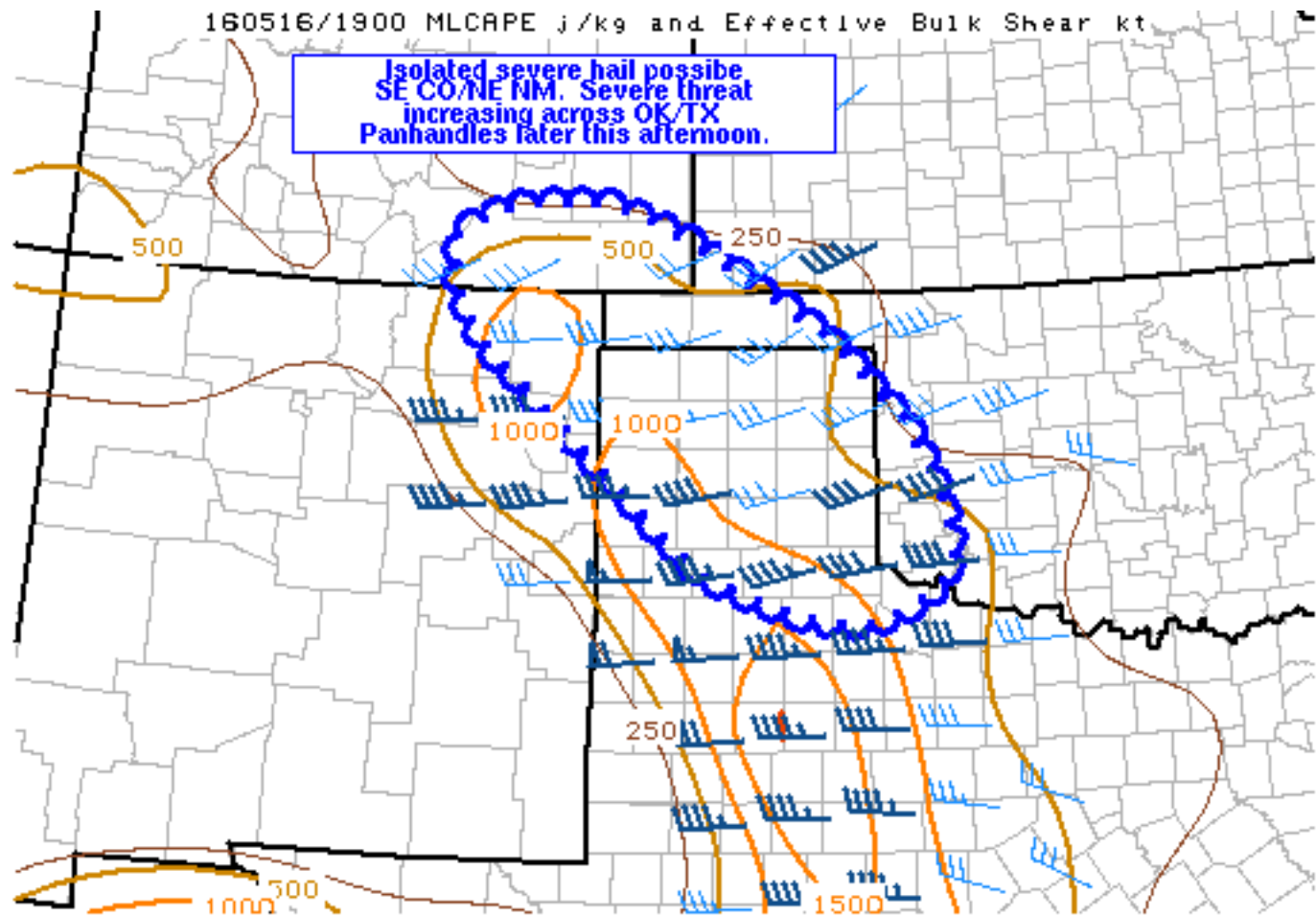
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Mesoscale Discussion 633

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SPC MCD #0633

MESOSCALE DISCUSSION 0633

NWS STORM PREDICTION CENTER NORMAN OK

0206 PM CDT MON MAY 16 2016

AREAS AFFECTED...SE CO...NE NM...OK/TX PANHANDLES...FAR SW KS

CONCERNING...SEVERE POTENTIAL...WATCH LIKELY

VALID 161906Z - 162030Z

PROBABILITY OF WATCH ISSUANCE...80 PERCENT

SUMMARY...LARGE HAIL AND STRONG WIND GUSTS WILL ACCOMPANY STORMS DEVELOPING SOUTHEAST FROM SE CO/NE NM INTO THE OK/TX PANHANDLES AND FAR SW KS. A WATCH WILL LIKELY BE NEEDED WITHIN THE HOUR.

DISCUSSION...ISOLATED STRONG TO SEVERE CELLS HAVE DEVELOPED IN UPSLOPE FLOW NEAR HIGHER TERRAIN IN SE CO. STRONGER HEATING AND BETTER EROSION OF THE CAP HAS OCCURRED ACROSS THIS AREA INTO NE NM AS SKIES HAVE REMAINED MOSTLY CLEAR INTO EARLY AFTERNOON. FURTHER EAST INTO SW KS AND THE OK/TX PANHANDLES...CAPPING REMAINS FAIRLY

STRONG DUE TO PERSISTENCE OF LOW LEVEL CLOUDS. OVER THE LAST 30 MIN OR SO...VIS SATELLITE HAS SHOWN BREAKS OF THIS CLOUDINESS AND HEATING IS QUICKLY LEADING TO WEAK DESTABILIZATION. AS LOW LEVEL MOISTURE CONTINUES TO INCREASE IN TANDEM WITH CONTINUED HEATING...CAPPING SHOULD ERODE BY LATE AFTERNOON ACROSS THE OK/TX PANHANDLES. STEEP MIDLEVEL LAPSE RATES /GREATER THAN 7.5 C PER KM/ ARE IN PLACE ACROSS THE REGION AND EFFECTIVE SHEAR HAS INCREASED TO 40-50 KT ACROSS MUCH OF THE SOUTHERN HIGH PLAINS AS THE UPPER IMPULSE EJECTS ACROSS THE SRN ROCKIES. THIS WILL INITIALLY SUPPORT SUPERCELLS CAPABLE OF LARGE HAIL. WHILE LOW LEVEL FLOW IS BACKED...HODOGRAPHS ABOVE ABOUT 1 KM ARE RATHER UNIDIRECTIONAL. AS SUCH...STORMS MAY SPLIT AND GROW UPSCALE INTO BOWING SEGMENTS...WITH AN INCREASING THREAT FOR DAMAGING WINDS. WHILE THE TORNADO THREAT IS NON-ZERO...A LACK OF BETTER LOW LEVEL MOISTURE SHOULD PRECLUDE A GREATER/MORE WIDESPREAD TORNADO RISK. A WATCH WILL LIKELY BE NEEDED WITHIN THE HOUR.

..LEITMAN/GOSS.. 05/16/2016

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

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