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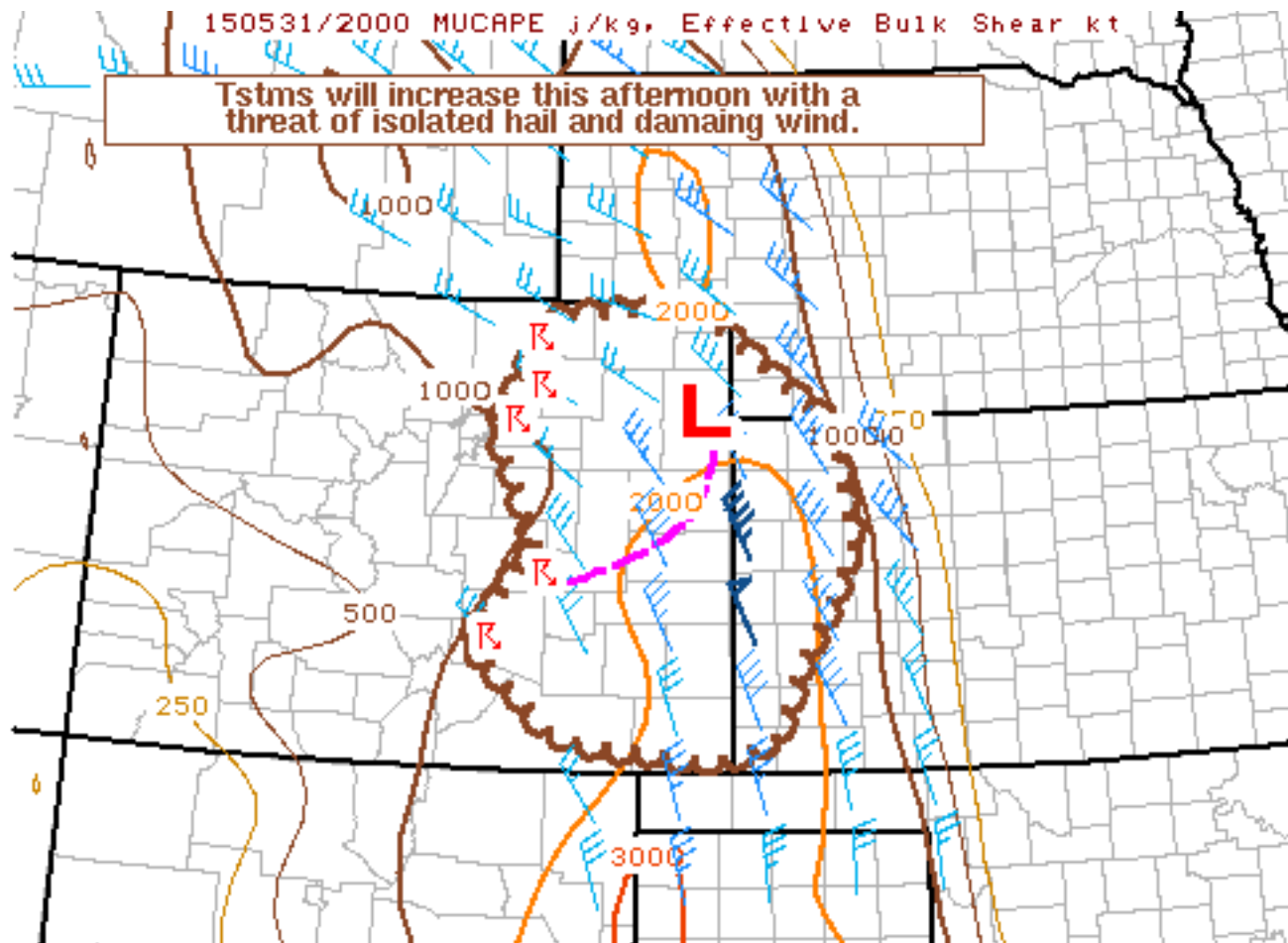
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Mesoscale Discussion 852

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SPC MCD #0852

MESOSCALE DISCUSSION 0852
 NWS STORM PREDICTION CENTER NORMAN OK
 0350 PM CDT SUN MAY 31 2015

AREAS AFFECTED...ERN CO...WRN KS...EXTREME SWRN NEB

CONCERNING...SEVERE POTENTIAL...WATCH UNLIKELY

VALID 312050Z - 312245Z

PROBABILITY OF WATCH ISSUANCE...20 PERCENT

SUMMARY...ISOLATED SEVERE THUNDERSTORMS ARE POSSIBLE THIS AFTERNOON AND EVENING WITH A PRIMARY THREAT OF LARGE HAIL AND LOCALLY DAMAGING WIND. DUE TO LIMITED COVERAGE OF SEVERE THREAT...WATCH ISSUANCE IS CONSIDERED UNLIKELY.

DISCUSSION...MODERATE INSTABILITY HAS DEVELOPED ACROSS ERN CO INTO WRN KS THIS AFTERNOON...AS SFC TEMPS WARM INTO THE 80S BENEATH STEEP MIDDLELEVEL LAPSE RATES. MEANWHILE...MODERATE NWLY FLOW ALOFT IS RESULTING IN EFFECTIVE SHEAR OF 30-40 KTS...SUFFICIENT FOR ORGANIZED



STORM STRUCTURES. THE PRIMARY LIMITING FACTORS ARE THE LACK OF LARGE-SCALE ASCENT OVER THE REGION AND A RATHER UNFAVORABLE SFC PATTERN...WITH LIMITED UPSLOPE FLOW AND ONLY WEAK CONVERGENCE AT LOW-LEVELS.

DESPITE THESE LIMITING FACTORS...AT LEAST SOME SEVERE THREAT IS LIKELY TO MATERIALIZE LATER THIS AFTERNOON INTO THIS EVENING. A WEAK SFC LOW ACROSS YUMA COUNTY CO AND A TRAILING WIND SHIFT/CONFLUENCE ZONE MAY PROVIDE A FOCUS FOR ISOLATED STORM INITIATION. IN ADDITION...ONGOING STORMS EMERGING OUT OF THE HIGH TERRAIN MAY BECOME BETTER ORGANIZED AS THEY MOVE SEWD INTO A MORE UNSTABLE ENVIRONMENT. A COUPLE OF SUPERCELLS AND/OR BOWING SEGMENTS ARE POSSIBLE WITH AN ATTENDANT THREAT OF LARGE HAIL AND DAMAGING WINDS. WITH COVERAGE EXPECTED TO REMAIN ISOLATED...WW ISSUANCE IS CONSIDERED UNLIKELY AT THIS TIME.

..DEAN/MEAD.. 05/31/2015

ATTN...WFO...LBF...DDC...GLD...PUB...BOU...

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