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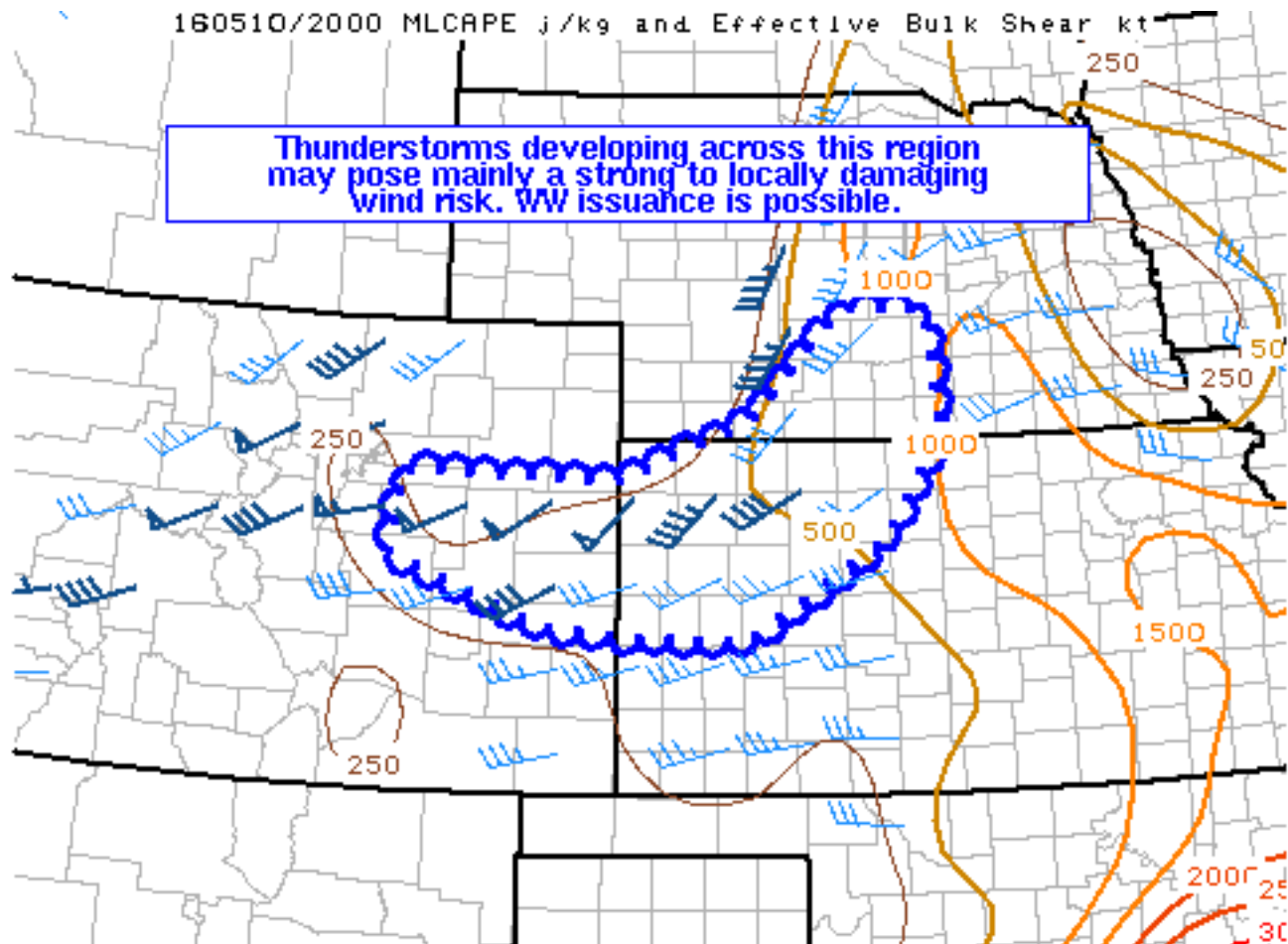
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## Mesoscale Discussion 587

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SPC MCD #0587

MESOSCALE DISCUSSION 0587

NWS STORM PREDICTION CENTER NORMAN OK

0318 PM CDT TUE MAY 10 2016

AREAS AFFECTED...PORTIONS OF ERN CO...NWRN KS...AND SRN NEB

CONCERNING...SEVERE POTENTIAL...WATCH POSSIBLE

VALID 102018Z - 102215Z

PROBABILITY OF WATCH ISSUANCE...40 PERCENT

SUMMARY...THUNDERSTORMS DEVELOPING ACROSS THIS REGION MAY POSE MAINLY A STRONG TO LOCALLY DAMAGING WIND RISK. ISOLATED LARGE HAIL MAY ALSO OCCUR. WW ISSUANCE IS POSSIBLE.

DISCUSSION...AS OF 20Z...A SFC COLD FRONT EXTENDED FROM THE FRONT RANGE OF CO EWD INTO W-CNTRL KS...AND NEWD INTO S-CNTRL NEB. CU DEVELOPMENT ACROSS ERN CO INTO NWRN KS HAS RECENTLY SHOWN SIGNS OF AGITATION AS LARGE-SCALE ASCENT ASSOCIATED WITH AN UPPER LOW OVER ERN MT SPREADS EWD ACROSS THE NRN/CNTRL HIGH PLAINS. AS TEMPERATURES

HAVE WARMED INTO THE 70S/LOWER 80S ALONG AND S OF THE FRONT...WEAK INSTABILITY HAS DEVELOPED...WITH MLCAPE GENERALLY 500 J/KG OR LESS. ENHANCED MID-LEVEL WINDS OF 40-50 KT PER RAP MESOANALYSIS WILL OVERLIE THE MCD AREA LATE THIS AFTERNOON AND EVENING...SUPPORTING SOME STORM ORGANIZATION AS THEY LIKELY FORM INTO CLUSTERS WITH TIME. A DEEPLY MIXED BOUNDARY LAYER ALONG AND S OF THE FRONT SHOULD ENCOURAGE STRONG CONVECTIVE DOWNDRAFTS...AND RAP MESOANALYSIS SUGGESTS DCAPE OF 1000-1200 J/KG IS PRESENT ACROSS MUCH OF THE MCD AREA. WHILE STRONG TO DAMAGING WINDS WILL PROBABLY BE THE MAIN THREAT WITH ANY STORMS THAT FORM...ISOLATED LARGE HAIL MAY ALSO BE POSSIBLE. DEPENDING ON CONVECTIVE TRENDS OVER THE NEXT HOUR OR TWO...WW ISSUANCE IS POSSIBLE.

..GLEASON/HART.. 05/10/2016

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

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