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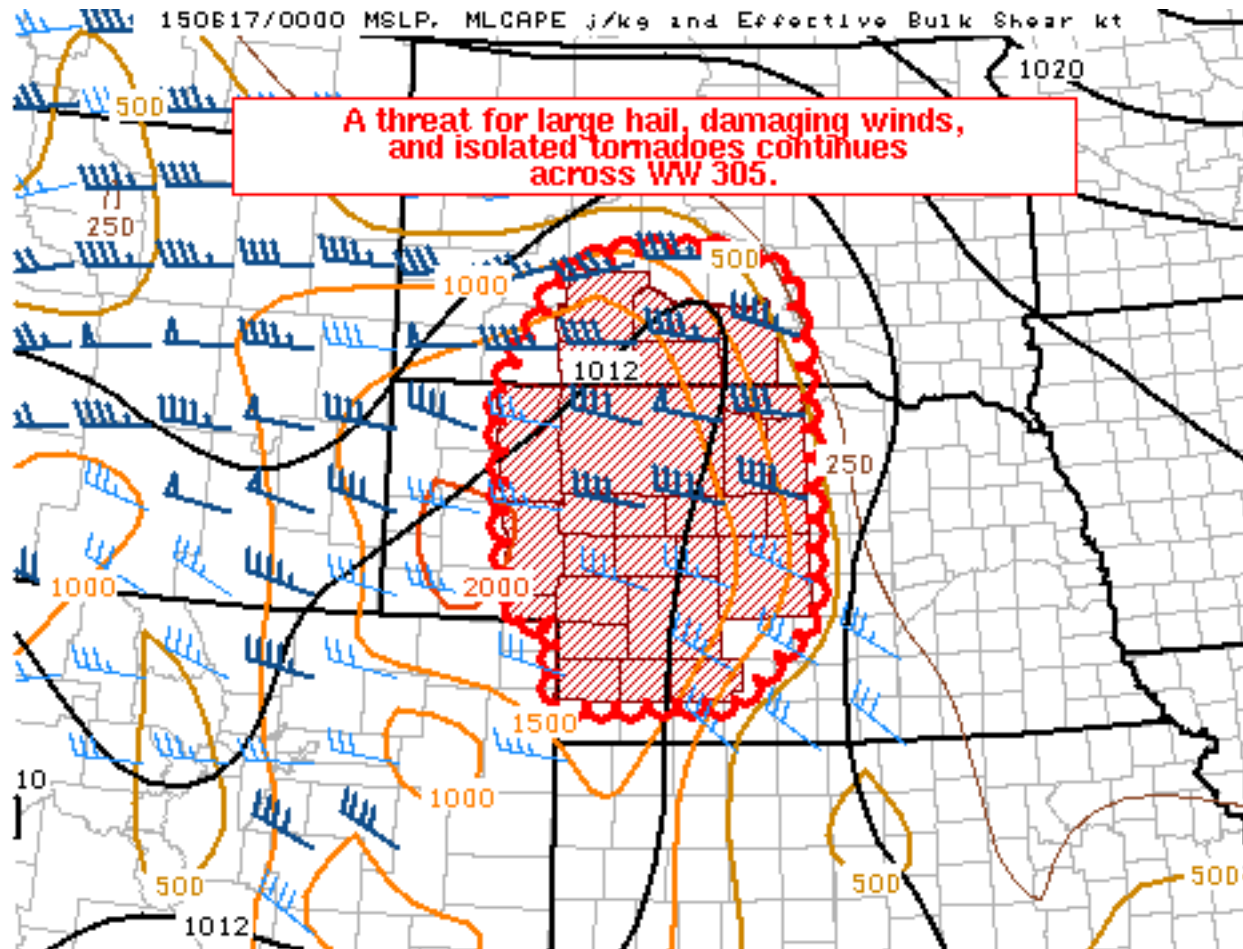
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Mesoscale Discussion 1038

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MESOSCALE DISCUSSION 1038

NWS STORM PREDICTION CENTER NORMAN OK

0734 PM CDT TUE JUN 16 2015

AREAS AFFECTED...PORTIONS OF WRN/CNTRL NEB AND S-CNTRL SD

CONCERNING...TORNADO WATCH 305...

VALID 170034Z - 170200Z

THE SEVERE WEATHER THREAT FOR TORNADO WATCH 305 CONTINUES.

SUMMARY...A THREAT FOR LARGE HAIL...DAMAGING WINDS...AND ISOLATED TORNADOES CONTINUES ACROSS WW 305.

DISCUSSION...SEVERAL SUPERCELL THUNDERSTORMS HAVE FORMED ALONG A CONFLUENCE LINE ORIENTED NE-SW ACROSS WRN/CNTRL NEB. PAIRED SUPERCELLS MOVING SEWD ACROSS SERN CHERRY COUNTY NEB WILL CONTINUE TO POSE A LARGE HAIL THREAT IN THE SHORT-TERM...ALONG WITH A POSSIBLE DAMAGING WIND THREAT AS OUTFLOW FROM THESE STORMS SURGES SWD/SEWD. ADDITIONAL SUPERCELLS HAVE FORMED FROM WRN LINCOLN COUNTY



NEB SWWD TO DUNDY COUNTY...AND OTHER THUNDERSTORMS WILL MOVE FROM SERN WY AND THE NEB PANHANDLE INTO WRN PORTIONS OF WW 305 WITHIN THE NEXT HOUR OR TWO.

THE 00Z SOUNDING FROM NORTH PLATTE NEB SHOWS A WELL-MIXED BOUNDARY LAYER...MID-LEVEL LAPSE RATES AROUND 7.0 DEG C/KM...AND A VEERING WIND PROFILE WITH HEIGHT. MLCAPE AROUND 1000 J/KG FROM THIS SOUNDING IS A BIT LOWER THAN THE 1500-2000 J/KG ESTIMATED FROM RAP MESOANALYSIS. REGARDLESS...SUFFICIENT INSTABILITY COMBINED WITH EFFECTIVE BULK SHEAR OF 35-45 KT WILL CONTINUE TO SUPPORT SUPERCELL STRUCTURES OVER THE NEXT SEVERAL HOURS ACROSS THE MCD AREA...WITH AN ASSOCIATED THREAT OF LARGE HAIL AND DAMAGING WINDS. THE 0-1 KM SRH ESTIMATED BY THE KLNK VWP WAS AROUND 200-225 M2/S2 AS OF 0015Z...WHICH SUGGESTS AN ISOLATED TORNADO THREAT CONTINUES WITH THIS ACTIVITY AS WELL GIVEN SLY/SELY SFC WINDS VEERING TO WLY AT MIDLEVELS.

..GLEASON.. 06/17/2015

ATTN...WFO...FSD...ABR...GID...LBF...UNR...GLD...CYS...

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