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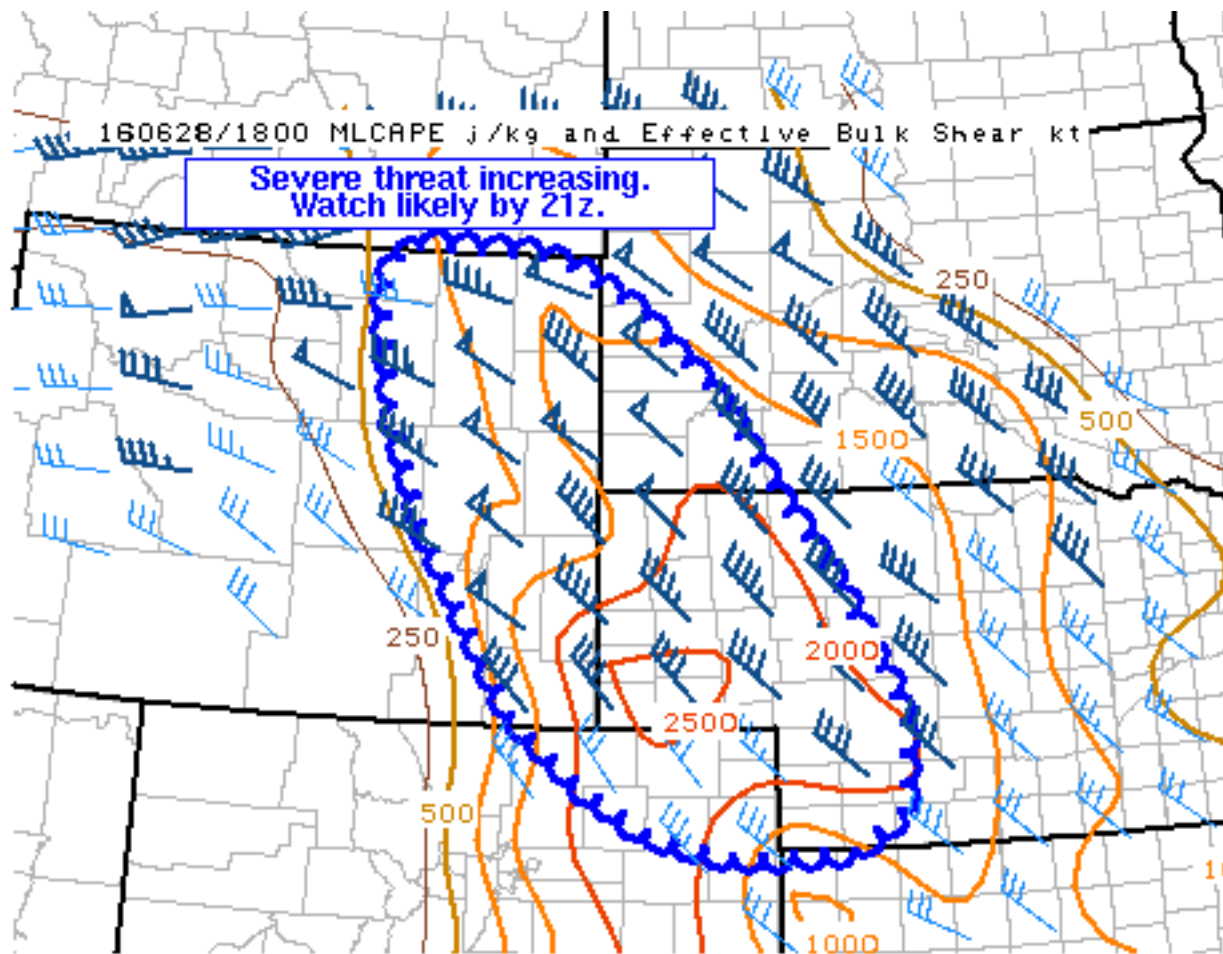
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Mesoscale Discussion 1072

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SPC MCD #1072

MESOSCALE DISCUSSION 1072
 NWS STORM PREDICTION CENTER NORMAN OK
 0155 PM CDT TUE JUN 28 2016

AREAS AFFECTED...EASTERN WY...SOUTHWEST SD...WESTERN NEB...NORTHEAST CO

CONCERNING...SEVERE POTENTIAL...WATCH LIKELY

VALID 281855Z - 282030Z

PROBABILITY OF WATCH ISSUANCE...80 PERCENT

SUMMARY...THUNDERSTORM DEVELOPMENT IS EXPECTED TO BECOME MORE WIDESPREAD THIS AFTERNOON. A WATCH WILL LIKELY BE NEEDED IN THE NEXT HOUR OR TWO. DAMAGING WINDS AND LARGE HAIL WILL BE THE MAIN CONCERNS.

DISCUSSION...STRONG HEATING HAS OCCURRED INTO EARLY AFTERNOON AND TEMPERATURES WERE GENERALLY IN THE 80S ACROSS THE MCD AREA. DEWPOINTS IN THE MID 50S TO LOW 60S HAVE RESULTED IN MLCAPE GREATER

THAN 1500 J/KG...AND FURTHER DESTABILIZATION IS EXPECTED THROUGH THE
REMAINDER OF THE AFTERNOON. 18Z RAOB FROM RAP SHOWED QUITE A BIT OF
MLCIN AND THIS IS FURTHER SUPPORTED BY 18Z MESOANALYSIS.
HOWEVER...CUMULUS DEVELOPING NEAR HIGHER TERRAIN IN WY SUGGESTS
STRONGER DESTABILIZATION IS OCCURRING IN MOIST UPSLOPE REGIME.
FURTHERMORE...LATEST WATER VAPOR IMAGERY SHOWERS UPPER SHORTWAVE
IMPULSE E/SE ACROSS N-CENTRAL/NE MT WITH WEAK HEIGHT FALLS ACROSS
THE NORTHERN HIGH PLAINS. A FEW LIGHTNING STRIKES HAVE BEEN NOTED IN
SHERIDAN CO WY RECENTLY IN ADDITION TO MORE ROBUST DEVELOPMENT OVER
THE BLACK HILLS. GIVEN ALL OF THIS...MORE WIDESPREAD INITIATION IS
EXPECTED WITHIN THE NEXT COUPLE OF HOURS AND A WATCH WILL LIKELY BE
NEEDED.

STORM MODE IS INITIALLY EXPECTED TO BE SEMI-DISCRETE CELLS/CLUSTERS
WITH SUPERCELL STRUCTURES POSSIBLE GIVEN FAVORABLE DEEP LAYER SHEAR
PROFILES. LOW LEVEL FLOW IS RATHER WEAK HOWEVER SO MAINTAINING
DISCRETE MODE WILL BE PROBLEMATIC...ESPECIALLY ONCE STORM
MERGERS/OUTFLOWS COMMENCE. INITIALLY VERY LARGE HAIL AND DAMAGING
WINDS WILL BE POSSIBLE. HI-RES CAMS THEN SUGGEST UPSCALE GROWTH WILL
BE POSSIBLE WITH ONE OR TWO BOWING CLUSTERS POSSIBLE ACROSS PARTS OF
SD/NEB/NE CO. THIS WILL RESULT IN A TRANSITION TO MAINLY A DAMAGING
WIND THREAT INTO THE EVENING HOURS.

..LEITMAN/HART.. 06/28/2016

ATTN...WFO...LBF...UNR...GLD...BOU...CYS...BYZ...RIW...

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NOAA / National Weather Service
National Centers for Environmental Prediction
Storm Prediction Center
120 David L. Boren Blvd.
Norman, OK 73072 U.S.A.
spc.feedback@noaa.gov
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