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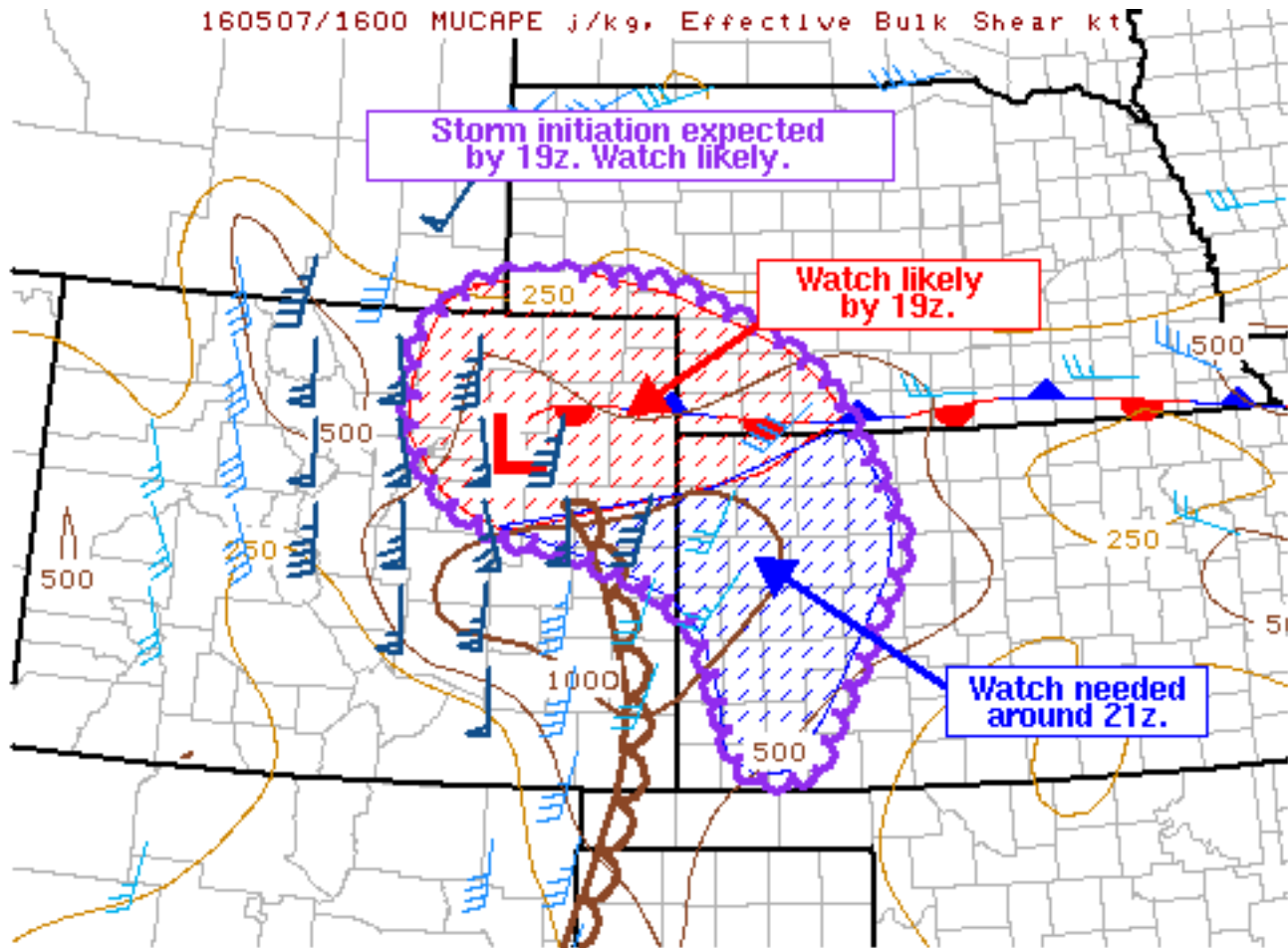
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Mesoscale Discussion 545

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160507/1600 MUCAPE j/kg, Effective Bulk Shear kt



SPC MCD #0545

MESOSCALE DISCUSSION 0545
 NWS STORM PREDICTION CENTER NORMAN OK
 1229 PM CDT SAT MAY 07 2016

AREAS AFFECTED...NE CO...EXTREME SE WY...FAR SW NEB...NW KS

CONCERNING...SEVERE POTENTIAL...WATCH LIKELY

VALID 071729Z - 071900Z

PROBABILITY OF WATCH ISSUANCE...80 PERCENT

SUMMARY...STORMS ARE EXPECTED TO DEVELOP AND QUICKLY BECOME SEVERE BETWEEN 19-20Z. LARGE HAIL...DAMAGING WIND GUSTS AND POSSIBLY A COUPLE TORNADOES WILL BE POSSIBLE INTO EARLY EVENING.

DISCUSSION...BUILDING CU AND A FEW ISOLATED STORMS WERE DEVELOPING OVER THE HIGHER TERRAIN WEST OF THE I-25 CORRIDOR IN CENTRAL CO. ADDITIONAL CU DEVELOPMENT WAS EVIDENT NEAR SOUTHERN FRINGES OF ERODING STATUS FIELD SOUTH OF DEN. A QUASI-STATIONARY BOUNDARY STRETCHED W-E FROM NE CO ALONG THE NEB/KS BORDER. MEANWHILE...A

DRYLINE WAS NOTED FROM ERN CO INTO FAR ERN NM/APPROACHING THE TX/OK PANHANDLES. THIS DRYLINE SHOULD SURGE EASTWARD DURING THE AFTERNOON TOWARD WESTERN KS. INITIAL STORM INITIATION WILL BE NEAR THE TRIPLE POINT/SFC LOW IN THE DEN VICINITY WITH ADDITIONAL STORMS DEVELOPING BOTH ALONG THE DRYLINE FROM E-CNTRL CO INTO WRN KS AND ALONG THE QUASI-STATIONARY BOUNDARY FROM NE CO INTO NW KS/SW NEB.

DEEP LAYER SHEAR AND WEAK TO MODERATE INSTABILITY WILL RESULT IN STORMS QUICKLY DEVELOPING INTO SUPERCELLS. LONG...STRAIGHT HODOGRAPHS ABOVE THE LOWEST KM OR SO WILL SUPPORT SPLITTING STORMS WITH SOME BOWING SEGMENTS POSSIBLE. MIDDLELEVEL LAPSE RATES NEAR 8 DEG C/KM PER OBJECTIVE ANALYSIS WILL RESULT IN LARGE HAIL /PERHAPS SOME GREATER THAN 2 INCHES/ BEING THE MAIN CONCERN. MODEST BOUNDARY LAYER MOISTURE WITH DEWPOINTS IN THE UPPER 40S TO LOW 50S WILL RESULT IN HIGH-BASED CELLS WITH AN ACCOMPANY DAMAGING WIND THREAT. WHILE SETUP IS NOT OVERLY FAVORABLE FOR TORNADOES GIVEN THE DEARTH OF LOW LEVEL MOISTURE...ONE OR TWO CAN NOT BE RULED OUT ACROSS NE CO INTO ADJACENT PARTS OF KS/NEB NEAR THE BOUNDARY WHERE BACKED LOW LEVEL FLOW AND SLIGHTLY BETTER DEWPOINTS RESIDE. A WATCH WILL LIKELY BE ISSUED WITHIN THE NEXT 1-2 HOURS FOR NORTHERN PORTIONS OF THE MCD AREA WITH A SECOND WATCH LIKELY NEEDED BY AROUND 21Z.

..LEITMAN/HART.. 05/07/2016

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

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