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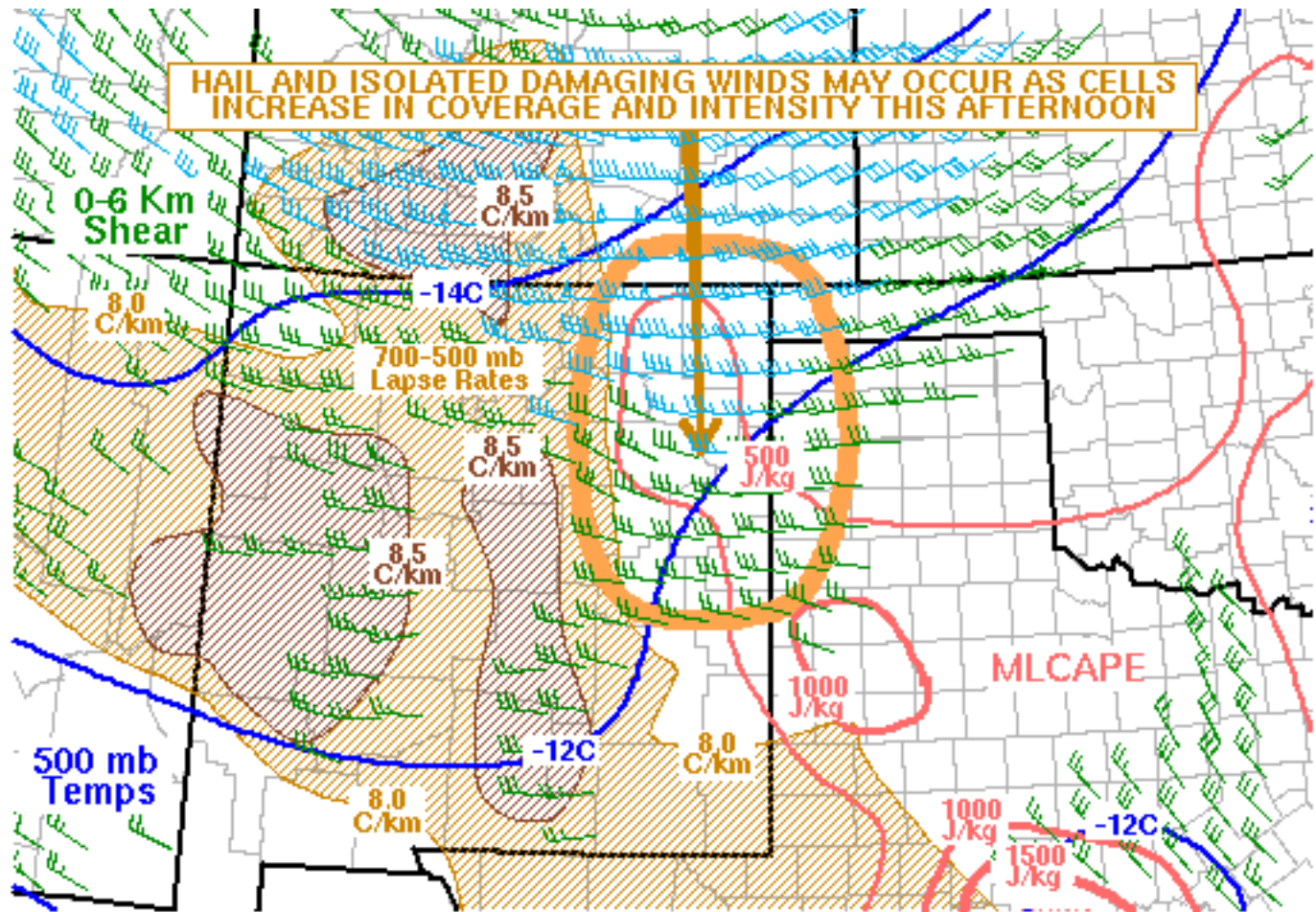
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Mesoscale Discussion 835

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SPC MCD #0835

MESOSCALE DISCUSSION 0835

NWS STORM PREDICTION CENTER NORMAN OK

0227 PM CDT FRI MAY 29 2015

AREAS AFFECTED...NE NM...SE CO...WRN TX PANHANDLE...WRN OK
PANHANDLE...

CONCERNING...SEVERE POTENTIAL...WATCH POSSIBLE

VALID 291927Z - 292100Z

PROBABILITY OF WATCH ISSUANCE...60 PERCENT

SUMMARY...A SEVERE THREAT IS EXPECTED TO DEVELOP THIS AFTERNOON
ACROSS NE NM AS CELLS INCREASE IN COVERAGE AND SPREAD EWD INTO THE
TX AND OK PANHANDLES. HAIL AND ISOLATED DAMAGING WIND GUSTS WILL BE
THE PRIMARY THREATS ALTHOUGH A TORNADO CAN NOT BE RULED OUT. WW
ISSUANCE MAY BE NEEDED ACROSS THE REGION.DISCUSSION...THE LATEST SFC ANALYSIS SHOWS A SFC TROUGH FROM THE
VICINITY OF EL PASO EXTENDING NWD INTO CNTRL AND NRN NM. SFC



DEWPOINTS TO THE EAST OF THE SFC TROUGH ARE GENERALLY IN THE LOWER 50S F AND AN AXIS OF LOW-LEVEL CONVERGENCE IS EVIDENT TO THE EAST OF THE SANGRE DE CRISTO MTNS NEAR INTERSTATE-25. THUNDERSTORMS ARE DEVELOPING ALONG THIS CORRIDOR ATTM. ACCORDING TO SHORT-TERM MODEL FORECASTS...THIS CONVECTION WILL CONTINUE TO EXPAND IN COVERAGE MOVING EWD INTO THE LOWER ELEVATIONS OF NERN NM THIS AFTERNOON. AN AXIS OF INSTABILITY IS ANALYZED FROM WEST TX EXTENDING NWARD INTO NE NM WHERE MLCAPE IS ESTIMATED BETWEEN 500 AND 1000 J/KG. IN ADDITION...MODERATE DEEP-LAYER SHEAR APPEARS TO BE IN PLACE ACROSS NE NM. THIS IS DUE TO DIRECTIONAL SHEAR AT LOW-LEVELS AND SOME SPEED SHEAR ALOFT WITH 35 TO 40 KT OF WLY FLOW AT 4 KM ON THE AMA WSR-88D VWP. THIS COMBINED WITH RELATIVELY STEEP LAPSE RATES SHOULD BE FAVORABLE FOR A SEVERE THREAT. IF A COLD POOL CAN DEVELOP AS THE HRRR SUGGESTS...THEN A WIND DAMAGE THREAT WOULD BE POSSIBLE WITH THE BETTER ORGANIZED LINE SEGMENTS. HAIL MAY ALSO OCCUR WITH THE STRONGER CORES.

..BROYLES/MEAD.. 05/29/2015

ATTN...WFO...LUB...AMA...PUB...ABQ...

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Page last modified: May 29, 2015

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