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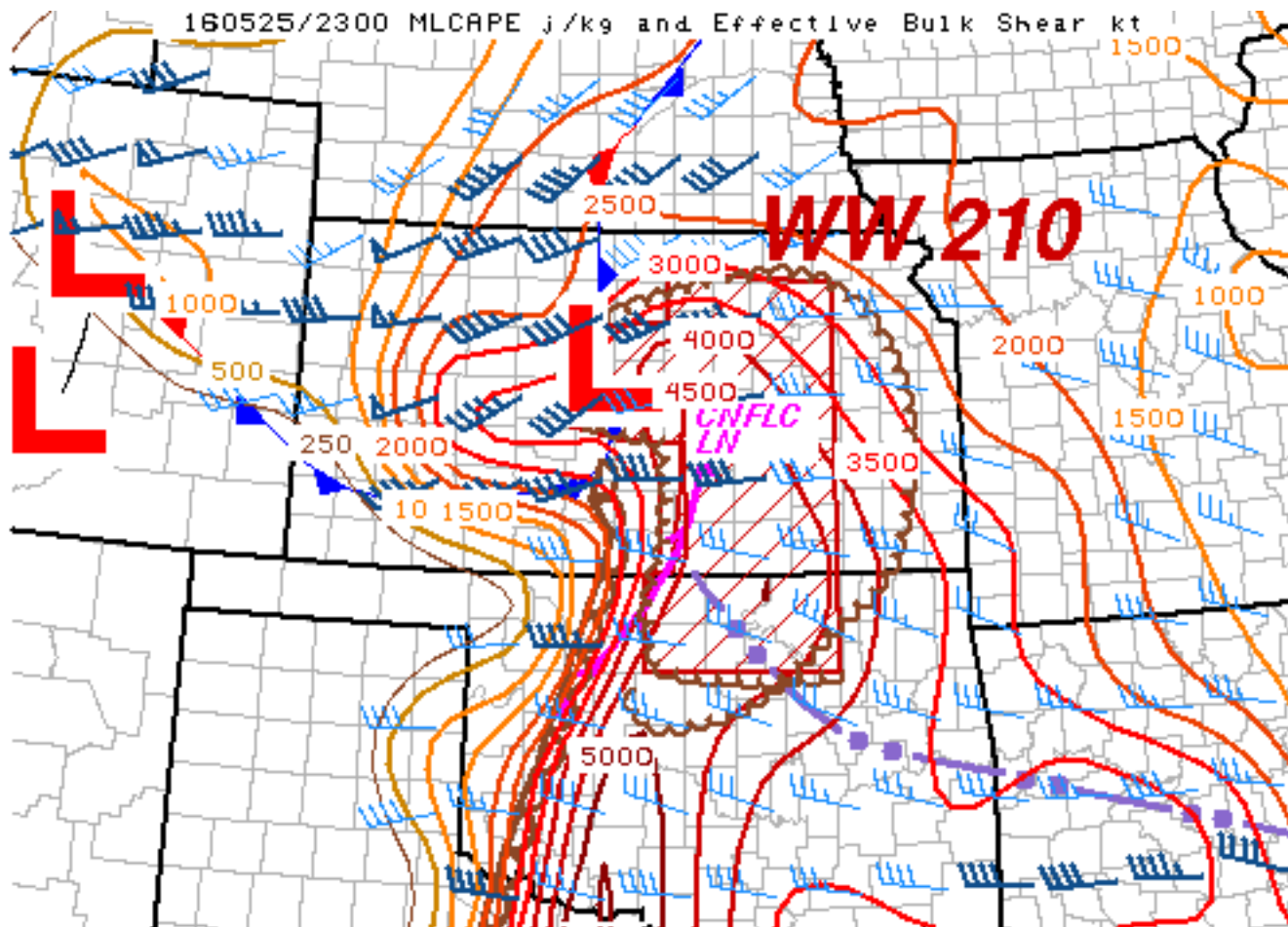
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Mesoscale Discussion 731

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SPC MCD #0731

MESOSCALE DISCUSSION 0731
 NWS STORM PREDICTION CENTER NORMAN OK
 0705 PM CDT WED MAY 25 2016

AREAS AFFECTED...PORTIONS KS.

CONCERNING...TORNADO WATCH 210...

VALID 260005Z - 260200Z

CORRECTED FOR FOOTER TAGS

THE SEVERE WEATHER THREAT FOR TORNADO WATCH 210 CONTINUES.

SUMMARY...CONTINUE WW. SVR THREAT IS INCREASING WITH SUPERCELL DEVELOPMENT BETWEEN SLN-CNK...AND OTHER/YOUNGER CONVECTION EVIDENT IN SRN KS/NRN OK. ROW OF COUNTIES HAS BEEN ADDED TO NRN RIM OF WW FROM CNK EWD. ON E SIDE...E OF FLINT HILLS...EXPANDED VERSION OF THIS WW OR ADDITIONAL WW MAY BE REQUIRED AS CONVECTIVE/ DESTABILIZATION TRENDS WARRANT.

DISCUSSION...SFC MESOANALYSIS SHOWS LOW NEAR I-70 BETWEEN RSL-SLN. COLD FRONT WAS DRAWN FROM THERE SWWD ACROSS SWRN KS THEN BECOMING QUASISTATIONARY AND ARCHING BACK INTO ERN CO. DRYLINE WAS ANALYZED FROM FRONTAL INTERSECTION NEAR P28 SSWWD ACROSS WRN OK TO TX BIG BEND REGION. AHEAD OF DRYLINE...LOW-LEVEL CONFLUENCE AXIS WAS EVIDENT MAINLY ABOVE SFC...INFERRING STREAMLINES FROM SHALLOW/MDT CUMULIFORM CONVECTIVE CLOUDS TRENDS...AND WAS DRAWN FROM DEWEY COUNTY OK NEWD ACROSS ICT AREA...BECOMING DIFFUSE NWD ACROSS MARION COUNTY. THIS FEATURE APPEARS TO BE RETREATING NWD 5-10 KT. INCREASINGLY DIFFUSE OUTFLOW BOUNDARY WAS DRAWN FROM CENTRAL AR WNWWD ACROSS NERN OK...INTERSECTING CONFLUENCE LINE INVOF KS/OK BORDER...AND SHIFTING NWD INTO SRN KS WHILE BECOMING MORE ILL-DEFINED WITH TIME. SFC LOW LIKEWISE IS FCST TO BECOME MORE DIFFUSE THROUGH EVENING INTO OVERNIGHT HOURS...BUT IN MEANTIME HAS VEERED FLOW TO NLY COMPONENT IN RSL/GBD AREA...REDUCING SVR THREAT THERE IN SHORT TERM.

STORM N SLN EARLIER PRODUCED FUNNEL AND BRIEF TORNADO...AND SHOULD BE SUSTAINED IN RELATIVELY DISCRETE FASHION FOR ANOTHER 1-2 HOURS AT LEAST...AS IT MOVES INTO FAVORABLY MOIST AIR MASS NEAR I-70 W FRI AND ACROSS NRN FLINT HILLS. OTHER INTERMITTENT CONVECTIVE GLACIATION BETWEEN END-EQA SUGGESTS RELATIVE PEAK IN THERMODYNAMICALLY DRIVEN BOUNDARY-LAYER CIRCULATIONS AUGMENTING LIFT ASSOCIATED WITH CONFLUENCE LINE. ANY SUSTAINED/DEEP CONVECTION THAT EMERGES FROM THAT REGIME ALSO MAY BECOME SUPERCELLULAR....GIVEN SSELY SFC WINDS INVOF WEAKENING OUTFLOW BOUNDARY...EFFECTIVE SRH 200-300 J/KG OVER SRN FLINT HILLS...AND MLCAPE LIKELY TO REMAIN IN 3000-5000 J/KG RANGE FOR ANOTHER COUPLE HOURS. FARTHER S ACROSS NWRN/WRN OK...CONVERGENCE ALONG DRYLINE AND CONFLUENCE BOUNDARY APPEARS TO WEAKEN AS CAP STRENGTHENS WITH SWD EXTENT...ESPECIALLY S OF DEEPER TOWERS EVIDENT IN VIS IMAGERY IN MAJOR COUNTY...RENDERING TSTM POTENTIAL MORE CONDITIONAL.

..EDWARDS.. 05/26/2016

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