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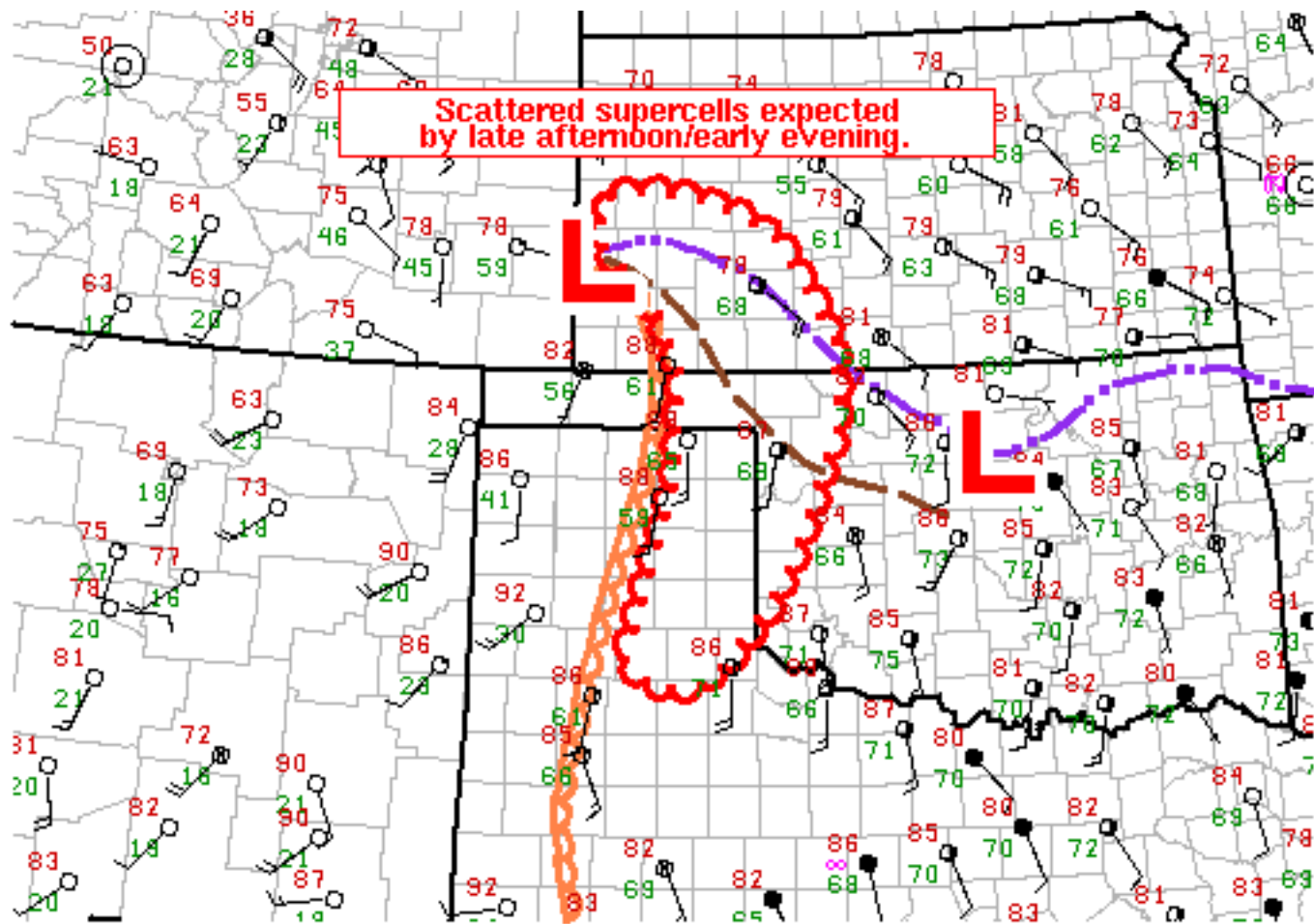
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## Mesoscale Discussion 706

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SPC MCD #0706

MESOSCALE DISCUSSION 0706

NWS STORM PREDICTION CENTER NORMAN OK

0231 PM CDT TUE MAY 24 2016

AREAS AFFECTED...SOUTHWEST KS TO EAST TX PANHANDLE/WEST OK

CONCERNING...SEVERE POTENTIAL...TORNADO WATCH LIKELY

VALID 241931Z - 242130Z

PROBABILITY OF WATCH ISSUANCE...95 PERCENT

SUMMARY...SCATTERED SUPERCELLS ARE EXPECTED TO DEVELOP ALONG THE DRYLINE AND RESIDUAL OUTFLOW BOUNDARIES DURING THE LATE AFTERNOON TO EARLY EVENING. VERY LARGE HAIL...A FEW TORNADIC STORMS...AND ISOLATED SEVERE WINDS ARE LIKELY.

DISCUSSION...19Z SURFACE ANALYSIS PLACED A CYCLONE NEAR HAMILTON COUNTY KS WITH A DRYLINE EXTENDING SOUTH THROUGH THE CENTRAL TX PANHANDLE...A RESIDUAL OUTFLOW BOUNDARY ACROSS SOUTHWEST KS INTO NORTH-CENTRAL KS AND ANOTHER CONFLUENT BOUNDARY THROUGH NORTHWEST

OK. THE WARM/MOIST SECTOR AIR MASS IS STRONGLY UNSTABLE WITH MLCAPE OF 2500-3500 J/KG AMID UPPER 60S TO LOWER 70S SURFACE DEW POINTS. HIGH-BASED CU HAS COMMENCED BEHIND THE DRYLINE IN THE TX PANHANDLE AND STRENGTHENING CONVERGENCE ALONG THE BOUNDARY TIED TO THE LEFT-EXIT REGION OF AN APPROACHING SUBTROPICAL UPPER JET SHOULD RESULT IN STORM INITIATION BY 21Z. FARTHER NORTH...CLUMPING CU NEAR THE CYCLONE SHOULD INITIATE INTO STORMS IN A SIMILAR TIME FRAME.

VERY STEEP MID-LEVEL LAPSE RATES OF 9 DEG C/KM FROM 700-500 MB AS SAMPLED BY 19Z AMA RAOB WILL BE QUITE CONDUCIVE TO INTENSE UPDRAFT ACCELERATION ONCE STORMS INITIATE. AS SUCH...VERY LARGE HAIL SHOULD BE THE PRIMARY INITIAL HAZARD. AS THE LOW-LEVEL JET STRENGTHENS THIS EVENING...TORNADO/WIND POTENTIAL WILL LIKELY INCREASE TOWARDS 00Z.

..GRAMS/HART.. 05/24/2016

ATTN...WFO...OUN...DDC...GLD...LUB...AMA...

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38259977 37269911 36479911 35149970 34300046 34220106  
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