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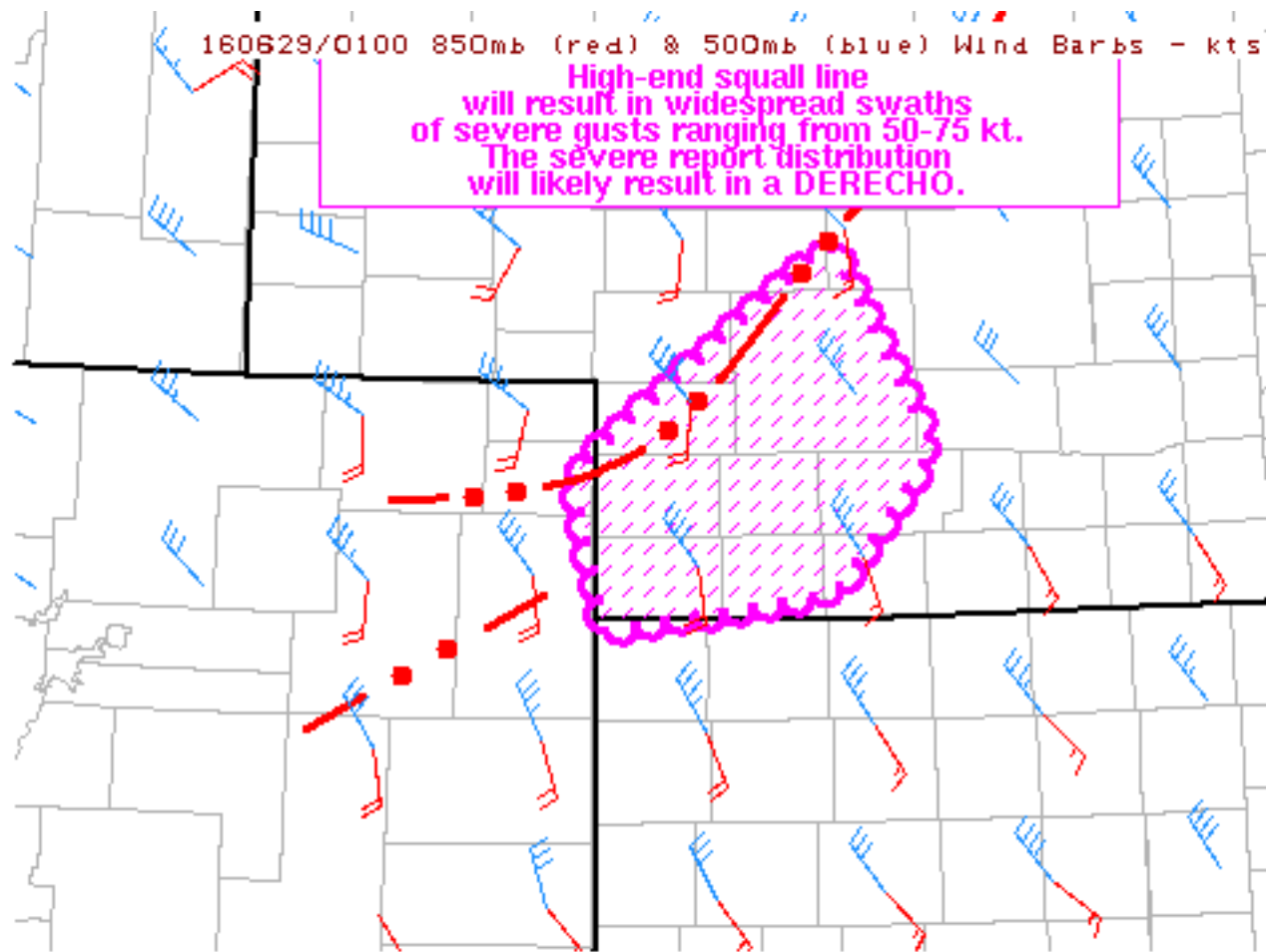
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SPC MCD #1083

MESOSCALE DISCUSSION 1083

NWS STORM PREDICTION CENTER NORMAN OK

0944 PM CDT TUE JUN 28 2016

AREAS AFFECTED...SWRN NEB

CONCERNING...SEVERE THUNDERSTORM WATCH 307...

VALID 290244Z - 290345Z

THE SEVERE WEATHER THREAT FOR SEVERE THUNDERSTORM WATCH 307
CONTINUES.SUMMARY...HIGH-END SQUALL LINE WILL RESULT IN WIDESPREAD SWATHS OF
SEVERE GUSTS RANGING FROM 50-75 KT. THE SEVERE-REPORT DISTRIBUTION
WILL LIKELY RESULT IN A DERECHO CLASSIFICATION.DISCUSSION...RADAR MOSAIC SHOWS AN INTENSE SQUALL LINE FROM N-CNTRL
NEB SWWD INTO EXTREME NERN CO WHILE A SEPARATE LINEAR CLUSTER
EXTENDS FROM NERN CO SWWD TO THE PALMER DIVIDE IN E-CNTRL CO. A
RECENT INSTRUMENTED MEASURED GUST AT KOGA OBSERVED 68 KT. THE STEEP

H7-H5 LAPSE RATES/STRONG DEEP-LAYER SHEAR WILL STRONGLY FAVOR SQUALL LINE MAINTENANCE/INTENSITY FOR THE NEXT FEW HOURS. FURTHERMORE...LOW-LEVEL FLOW HAS STRENGTHENED DURING THE PAST HOUR ACROSS THE CNTRL HIGH PLAINS DOWNSTREAM OF THE SQUALL LINE AND A 30-KT H85 SSELY JET PER THE KGLD VAD IS EVIDENT --YIELDING ROUGHLY 70-KT STORM-RELATIVE INFLOW AT H85. GIVEN THE FORWARD MOTION OF 300 DEG AT 42 KT...THE MOST INTENSE PART OF THE SQUALL LINE WILL MOVE THROUGH SWRN NEB DURING THE NEXT 1-1.5 HOURS. GUSTS IN THE 50-75 KT RANGE WILL BE POSSIBLE AND THE EXPECTED EVOLUTION OF THE SEVERE THREAT INTO NWRN KS WILL LIKELY RESULT IN A DERECHO CLASSIFICATION.

..SMITH.. 06/29/2016

ATTN...WFO...GID...LBF...GLD...BOU...

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