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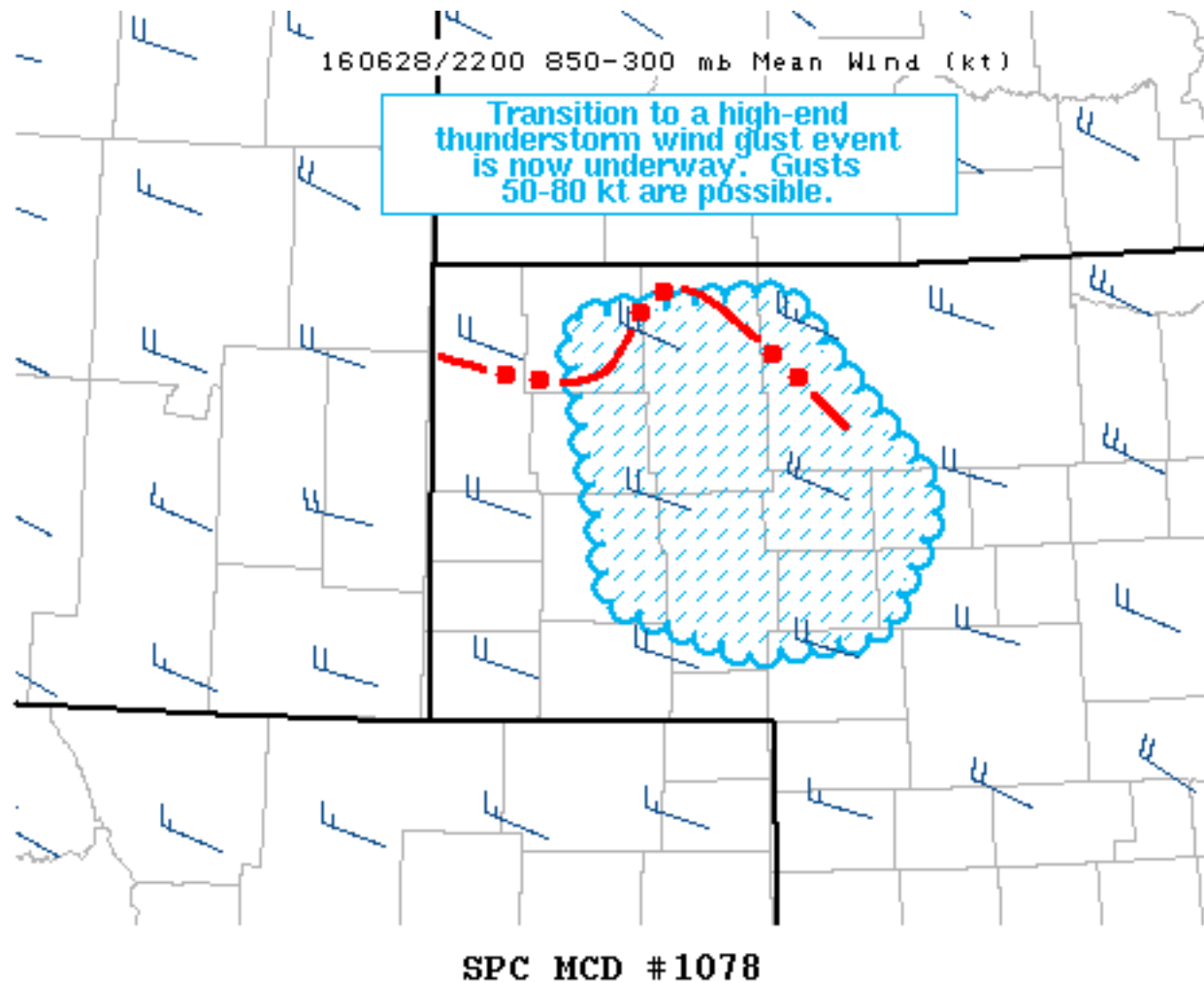
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MESOSCALE DISCUSSION 1078

NWS STORM PREDICTION CENTER NORMAN OK

0636 PM CDT TUE JUN 28 2016

AREAS AFFECTED...NEB PANHANDLE

CONCERNING...SEVERE THUNDERSTORM WATCH 304...

VALID 282336Z - 290000Z

THE SEVERE WEATHER THREAT FOR SEVERE THUNDERSTORM WATCH 304 CONTINUES.

SUMMARY...THE TRANSITION TO A HIGH-END THUNDERSTORM WIND GUST EVENT IS NOW UNDERWAY. GUSTS IN THE 50-80 KT RANGE ARE POSSIBLE.

DISCUSSION...AN INTENSE TSTM CLUSTER OVER THE NRN NEB PANHANDLE AND ADJACENT PORTIONS OF SD/WY IS SURGING SSEWD AT 35-40 KT. STRONG DEEP-LAYER SHEAR/BUOYANCY WILL PROMOTE INTENSE DOWNDRAFTS. A SUMMATION OF WATER LOADING...EVAPORATIVE ENHANCEMENT...BACKGROUND WIND FIELDS VIA HORIZONTAL MOMENTUM TRANSFER...AND A CELLULAR TO

LINEAR MODE TRANSITION ARE COMBINING TO BE VERY FAVORABLE FOR SCATTERED TO WIDESPREAD STRONG TO SEVERE GUSTS DURING THE NEXT SEVERAL HOURS. A 73-KT GUST WAS MEASURED AT KCDR AT 2315Z. THE MOST INTENSE WINDS WILL LIKELY OCCUR COINCIDENT WITH THE FASTER-MOVING/MORE INTENSE CORES AS THE TRANSITION TO GROW UPSCALE INTO A QLCS IS REALIZED. THE WIND THREAT WILL PROBABLY BE AUGMENTED AND PERHAPS ALIGNED MORE SELY ONCE THE STORMS OVER THE WRN NEB PANHANDLE MOVE EWD AND FOCUS THE HIGHER CORRIDOR FOR WINDS TO BE IN A NW-SE ORIENTATION.

..SMITH.. 06/28/2016

ATTN...WFO...LBF...CYS...

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