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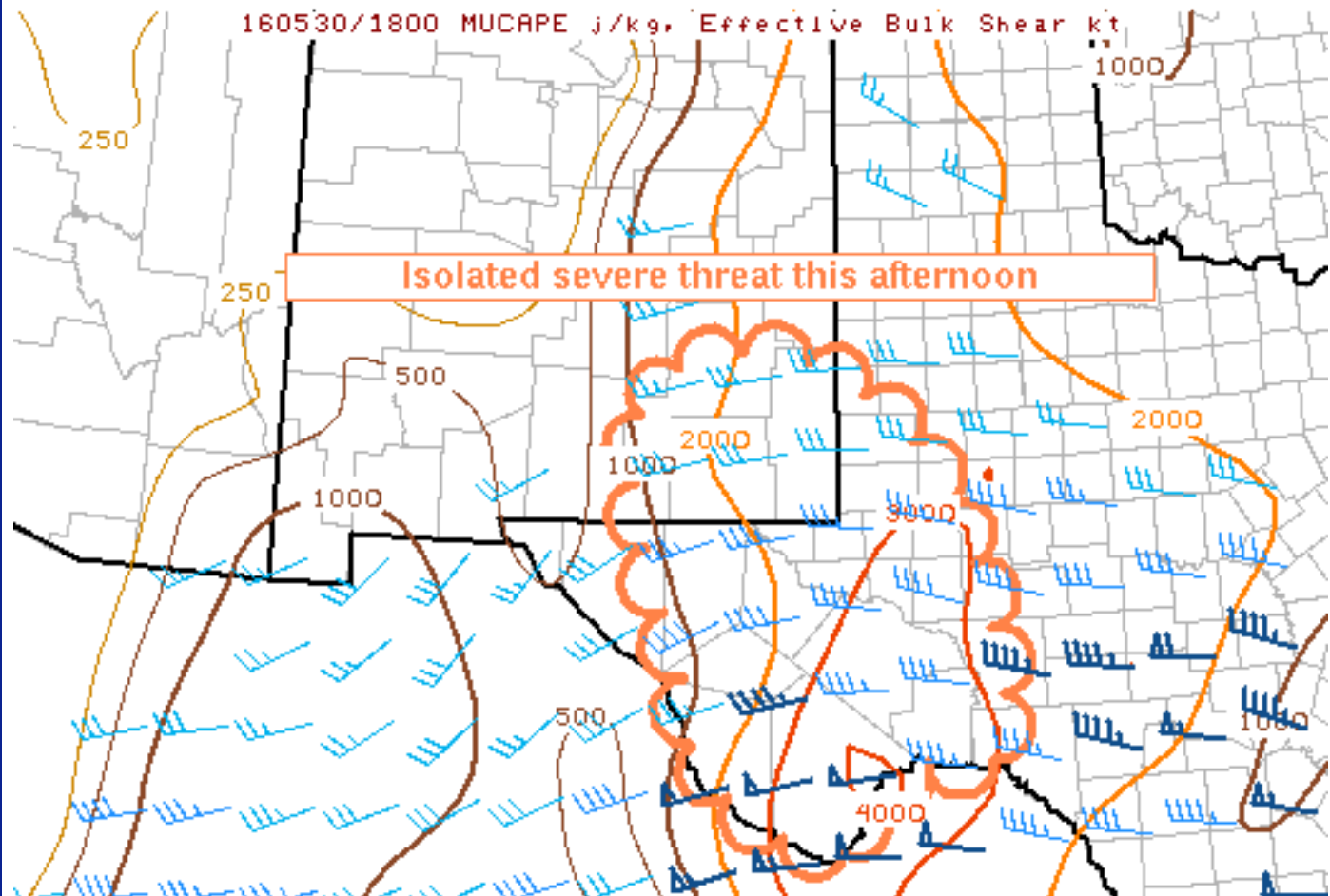
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SPC MCD #0791

MESOSCALE DISCUSSION 0791

NWS STORM PREDICTION CENTER NORMAN OK

0228 PM CDT MON MAY 30 2016

AREAS AFFECTED...SOUTHWESTERN TEXAS AND SOUTHEASTERN NEW MEXICO

CONCERNING...SEVERE POTENTIAL...WATCH UNLIKELY

VALID 301928Z - 302130Z

PROBABILITY OF WATCH ISSUANCE...20 PERCENT

SUMMARY...THUNDERSTORMS CONTINUE TO INCREASE IN COVERAGE ACROSS THE HIGHER TERRAIN OF SOUTHWEST TEXAS AND ADJACENT AREAS OF SOUTHEASTERN NEW MEXICO. TRENDS ARE BEING MONITORED FOR AN INCREASE IN SEVERITY AND COVERAGE.

DISCUSSION...HIGH-BASED CONVECTION HAS DEVELOPED IN EARNEST ACROSS WESTERN PARTS OF THE DISCUSSION AREA...ESPECIALLY IN SOUTHWEST TEXAS. OBSERVATIONS AND OBJECTIVE GUIDANCE SUGGEST THESE STORMS ARE AN ENVIRONMENT CHARACTERIZED BY DEEP SHEAR IN EXCESS OF 40 KNOTS AND

AROUND 1000 J/KG MUCAPE...SUGGESTIVE OF STORM ORGANIZATION AND AN ATTENDANT ISOLATED DOWNBURST THREAT WITH ANY SUSTAINED/INTENSE CONVECTION. THIS ACTIVITY IS PROGRESSING STEADILY EASTWARD...AND WILL ENCOUNTER A GRADUALLY MORE MOIST BOUNDARY LAYER AND MORE BUOYANT /YET SLIGHTLY CAPPED/ AIRMASS CHARACTERIZED BY MID 60S TO LOWER 70S DEWPOINTS AND 3000+ J/KG OF MUCAPE.

SOME UNCERTAINTY EXISTS WITH THE EVOLUTION OF THIS CONVECTION OVER THE NEXT FEW HOURS...ALTHOUGH IT SEEMS PLAUSIBLE THAT AN INCREASE IN HAIL /PERHAPS SIGNIFICANT/ AND SEVERE WIND GUSTS MAY UNFOLD IF CONVECTION CAN REMAIN ORGANIZED AS IT MOVES EASTWARD INTO THE GREATER LOW-LEVEL MOISTURE. ANOTHER...YET LOWER PROBABILITY SCENARIO...IS THAT STORMS GROW UPSCALE INTO AN MCS...WHICH WOULD ALSO RESULT IN AN INCREASE IN THE SEVERE HAIL/WIND THREAT. AN ISOLATED TORNADO CANNOT BE COMPLETELY RULED OUT...ESPECIALLY AFTER 00Z IN SOUTHEASTERN PORTIONS OF THE DISCUSSION AREA. THE GREATEST BOUNDARY LAYER MOISTURE CONTENT WILL RESIDE IN THIS AREA...AND LOW-LEVEL WIND FIELDS SHOULD ALSO INCREASE ASSOCIATED WITH NOCTURNAL BOUNDARY LAYER PROCESSES.

THIS REGION WILL BE MONITORED FOR A POSSIBLE HIGHER SEVERE THREAT THAN PREVIOUSLY ADVERTISED...ALONG WITH A POSSIBLE WW ISSUANCE.

..COOK/CORFIDI.. 05/30/2016

ATTN...WFO...EWX...SJT...LUB...MAF...ABQ...EPZ...

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