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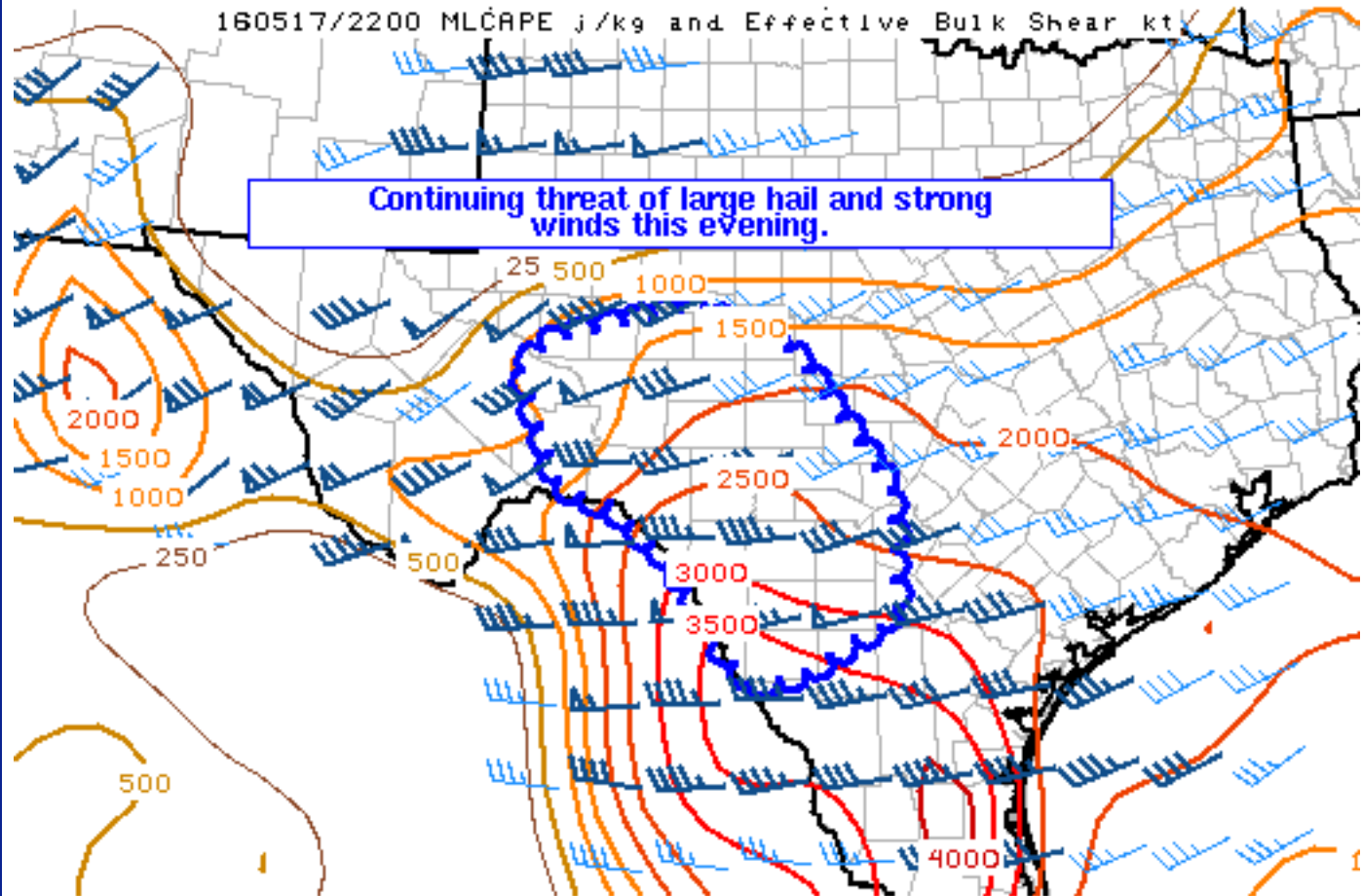
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## Mesoscale Discussion 643

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MESOSCALE DISCUSSION 0643  
NWS STORM PREDICTION CENTER NORMAN OK  
0538 PM CDT TUE MAY 17 2016

AREAS AFFECTED...PORTIONS OF SOUTHWESTERN TX

CONCERNING...SEVERE THUNDERSTORM WATCH 180...

VALID 172238Z - 180015Z

THE SEVERE WEATHER THREAT FOR SEVERE THUNDERSTORM WATCH 180 CONTINUES.

SUMMARY...A CLUSTER OF STRONG/SEVERE THUNDERSTORMS OVER THE EDWARDS PLATEAU SHOULD CONTINUE MOVING SOUTHEASTWARD ACROSS WATCH 180...MAINTAINING A THREAT FOR LARGE HAIL/DAMAGING WINDS...AND PERHAPS A TORNADO...THIS EVENING.

DISCUSSION...A CLUSTER OF SEVERAL HP SUPERCELL/MULTICELL STRUCTURES CONTINUES TO EVOLVE ACROSS PORTIONS OF THE EDWARDS PLATEAU THIS EVENING...WITH NEW DEVELOPMENT FOCUSED AT THE INTERSECTION OF A

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SOUTHWARD-PROGRESSING OUTFLOW BOUNDARY AND CONFLUENCE BOUNDARY OVER CROCKETT COUNTY. A SOUTH/SOUTHEAST PROPAGATION COMPONENT SHOULD FURTHER DRIVE THESE CELLS TOWARDS WESTERN PORTIONS OF THE TX HILL COUNTRY OVER THE NEXT FEW HOURS...AS THEY MOVE ALONG A SFC THETA-E AXIS. WEAK LOW-LEVEL FLOW SUGGESTS THE TORNADO THREAT SHOULD REMAIN LOW...BUT SOME VEERING WITH HEIGHT /IN ADDITION TO CELLS ENCOUNTERING RICHER LOW-LEVEL MOISTURE/ COULD SUPPORT A BRIEF TORNADO. LARGE HAIL SHOULD REMAIN THE PRIMARY THREAT THOUGH...AS STEEP MID-LEVEL LAPSE RATES AND OVER 40 KTS OF EFFECTIVE SHEAR FAVOR EFFICIENT HAIL GROWTH ALOFT. ADDITIONALLY...SOME POTENTIAL EXISTS FOR A CELL OR TWO TO REACH THE EASTERN EDGE OF THE WATCH...AND A SMALL AREAL EXTENSION TO THE EAST COULD BE NECESSARY.

ACROSS SOUTHERN PORTIONS OF WATCH 180...GREATER CONVECTIVE INHIBITION /EXHIBITED BY LOW-LEVEL BILLOW STRUCTURES ON VISIBLE SATELLITE/ COULD KEEP CELLS MORE ISOLATED OVER THE NEXT FEW HOURS. HOWEVER...AS A CONSOLIDATING COLD POOL ACROSS THE EDWARDS PLATEAU CONTINUES TO SHIFT SOUTHWARD...INCREASING DEVELOPMENT/COVERAGE IS POSSIBLE LATER THIS EVENING...WITH A PERSISTING POTENTIAL FOR LARGE HAIL/STRONG WINDS.

..PICCA.. 05/17/2016

ATTN...WFO...CRP...EWX...SJT...MAF...

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NOAA / National Weather Service  
National Centers for Environmental Prediction  
Storm Prediction Center  
120 David L. Boren Blvd.  
Norman, OK 73072 U.S.A.  
spc.feedback@noaa.gov  
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