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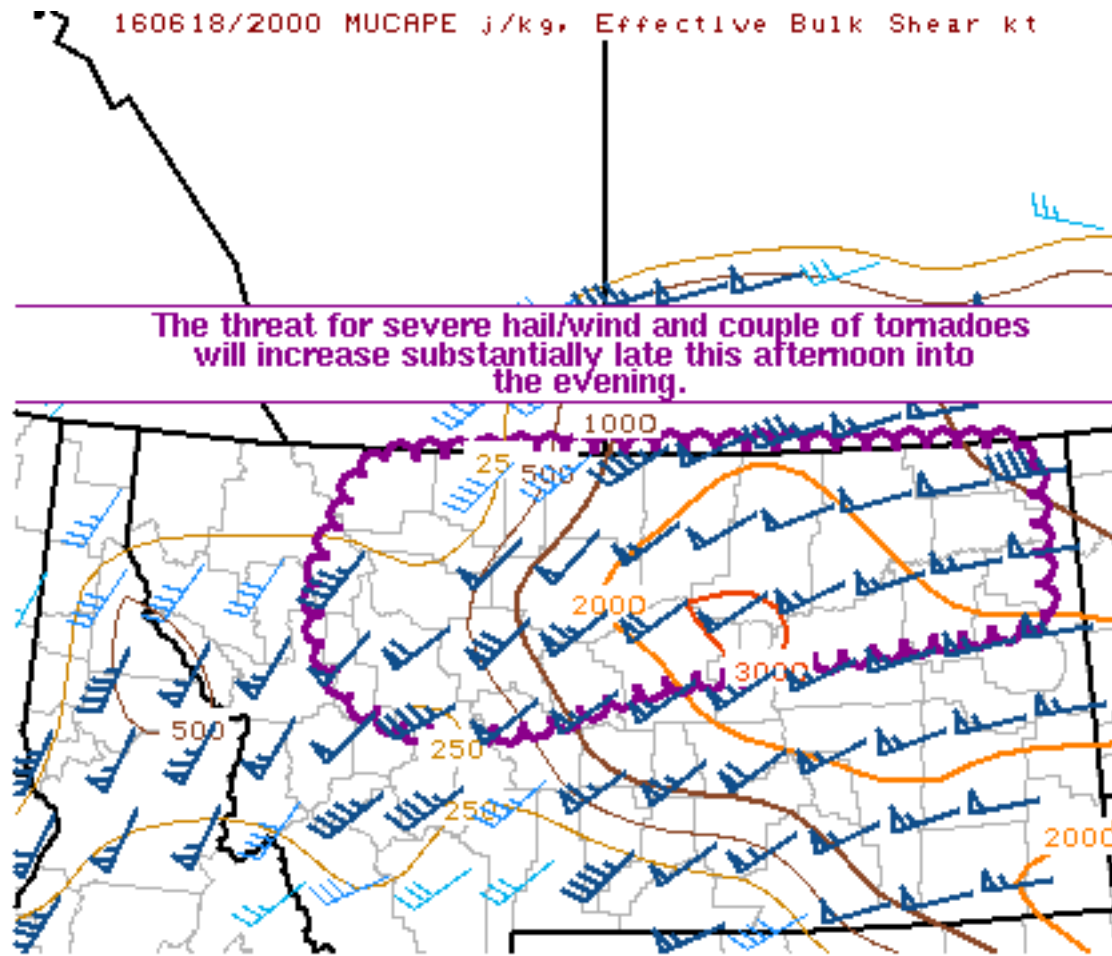
SPC Feedback

## Mesoscale Discussion 980

&lt; Previous MD

Next MD &gt;

160618/2000 MUCAPE j/kg, Effective Bulk Shear kt



SPC MCD #0980

MESOSCALE DISCUSSION 0980

NWS STORM PREDICTION CENTER NORMAN OK

0343 PM CDT SAT JUN 18 2016

AREAS AFFECTED...WESTERN INTO NORTHERN MONTANA

CONCERNING...SEVERE POTENTIAL...WATCH LIKELY

VALID 182043Z - 182215Z

PROBABILITY OF WATCH ISSUANCE...95 PERCENT

SUMMARY...A SUBSTANTIAL INCREASE IN THE RISK OF SEVERE HAIL/WIND AND PERHAPS A COUPLE OF TORNADOES IS EXPECTED LATE THIS AFTERNOON INTO THE EVENING. WATCH ISSUANCE IS LIKELY WITHIN THE HOUR.

DISCUSSION...AT 2040Z...CONVECTION CONTINUES TO INCREASE IN COVERAGE AND INTENSITY ACROSS WRN MT...IN ADVANCE OF A STRONG VORT MAX MOVING INTO THE PACIFIC NORTHWEST. ONGOING CONVECTION IS IN AN AREA WHERE INSTABILITY IS STILL LIMITED...BUT CONTINUED HEATING AND MODEST LOW-LEVEL MOISTENING NORTH OF A FRONTAL BOUNDARY DRAPED FROM SWRN MT

INTO NRN WY WILL SUPPORT AN INCREASE IN AVAILABLE BUOYANCY AS STORMS  
MOVE EWD.

VEERING WIND PROFILES IN THE LOW-LEVELS AND STRONG MIDLEVEL SWLY  
FLOW ARE SUPPORTING VERY FAVORABLE HODOGRAPHS FOR SUPERCELLS. AS  
STORMS DEVELOP AND/OR MOVE INTO PORTIONS OF N-CNTRL/NERN MT WHERE  
MODERATE INSTABILITY WILL BE IN PLACE...THE THREAT FOR SEVERE  
HAIL/WIND AND PERHAPS A COUPLE OF TORNADOES WILL INCREASE  
SUBSTANTIALLY BY 00Z. DISCRETE SUPERCELLS WILL BE MOST LIKELY WITHIN  
2-3 HOURS OF INITIATION...WITH A THREAT OF VERY LARGE HAIL IN EXCESS  
OF 2 INCHES IN DIAMETER AND A COUPLE OF TORNADOES...THOUGH  
RELATIVELY MODEST LOW-LEVEL MOISTURE AND LOW-LEVEL SHEAR WILL TEMPER  
THE TORNADO THREAT TO SOME EXTENT. SOME UPSCALE GROWTH INTO A  
FORWARD-PROPAGATING CLUSTER POSSIBLE LATER IN STORM EVOLUTION...WITH  
FAVORABLE INSTABILITY/SHEAR SUPPORTING AN ENHANCED DAMAGING WIND  
THREAT.

SOME UNCERTAINTY EXISTS REGARDING THE SRN EXTENT OF THE PRIMARY  
SEVERE THREAT...BUT A WATCH WILL BE REQUIRED FOR AT LEAST PART OF  
THE MCD AREA WITHIN THE HOUR.

..DEAN/GUYER.. 06/18/2016

ATTN...WFO...GGW...TFX...MSO...

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