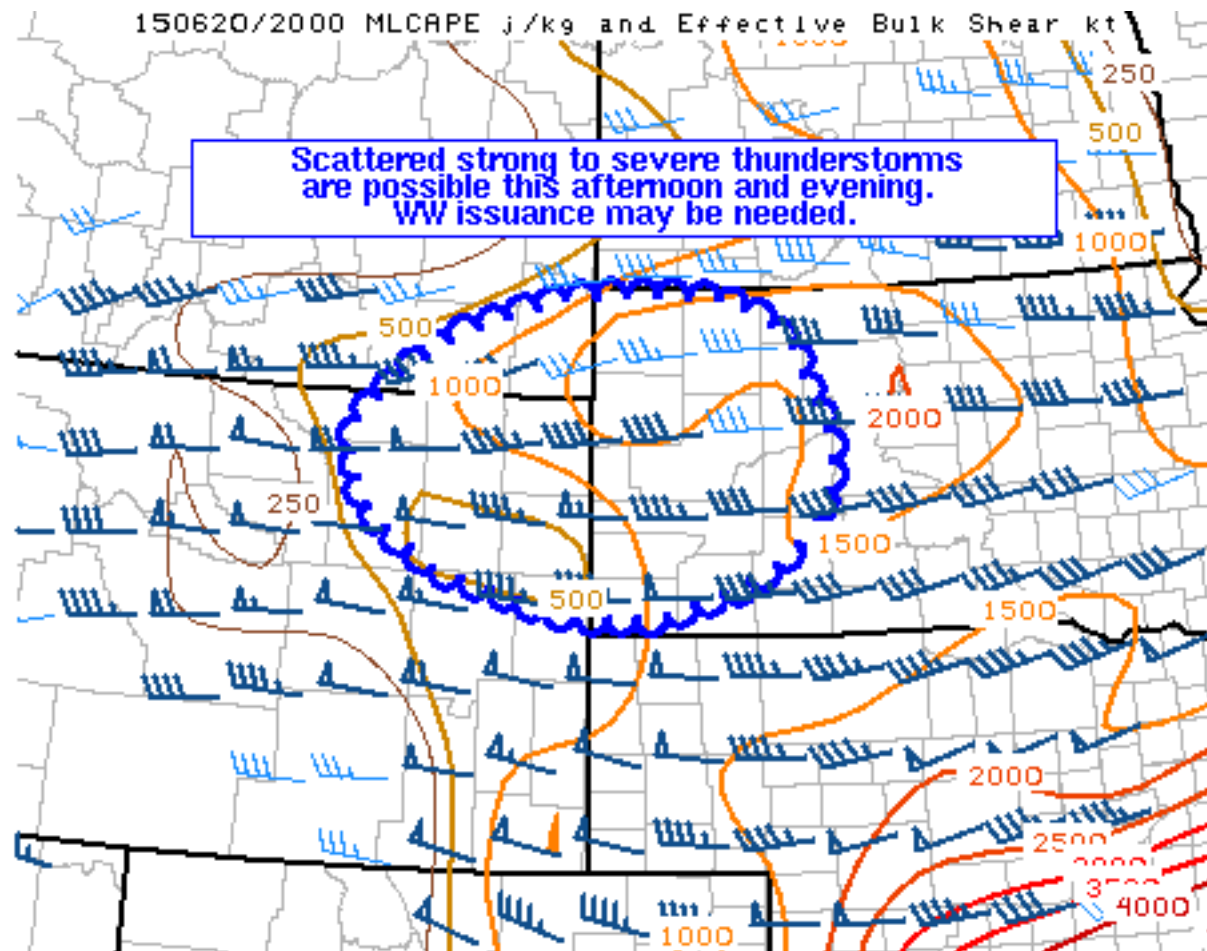


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## Mesoscale Discussion 1089

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MESOSCALE DISCUSSION 1089

NWS STORM PREDICTION CENTER NORMAN OK

0350 PM CDT SAT JUN 20 2015

AREAS AFFECTED...NORTHEASTERN WYOMING...FAR SOUTHEASTERN MONTANA...AND WESTERN SOUTH DAKOTA

CONCERNING...SEVERE POTENTIAL...WATCH POSSIBLE

VALID 202050Z - 202245Z

PROBABILITY OF WATCH ISSUANCE...40 PERCENT

SUMMARY...ISOLATED THUNDERSTORMS HAVE DEVELOPED ACROSS WESTERN SOUTH DAKOTA...WITH A GRADUAL UPTICK IN THUNDERSTORM COVERAGE EXPECTED THROUGH THE EVENING. TRENDS WILL BE MONITORED FOR A POSSIBLE WW ISSUANCE.

DISCUSSION...A FEW THUNDERSTORMS HAVE DEVELOPED ACROSS NORTHWESTERN AND FAR WEST CENTRAL NORTH DAKOTA...AND A FEW TOWERING CU ARE NOTED VIA SATELLITE IMAGERY OVER ADJACENT AREAS OF NORTHEASTERN WYOMING.



SURFACE TEMPERATURES RISING THROUGH THE 70S AND LOWER 80S HAVE ALLOWED FOR WEAK TO MODERATE INSTABILITY TO DEVELOP IN THE DISCUSSION AREA...WITH 500-1500 J/KG MLCAPES NOTED IN THE DISCUSSION AREA. ALTHOUGH LOW-LEVEL WIND FIELDS ARE WEAK AND ONLY CONTAIN A VERY SLIGHT UPSLOPE COMPONENT...50-KNOT MID-LEVEL FLOW ALOFT OVER THE AREA IS CONTRIBUTING TO SUBSTANTIAL DEEP LAYER SHEAR FOR STORM ORGANIZATION. OBSERVATIONS AND MODEL GUIDANCE SUGGEST A GRADUAL INCREASE IN CONVECTIVE DEVELOPMENT THROUGH THE EVENING...WITH ENOUGH SEVERE WIND/HAIL THREAT TO WARRANT CONSIDERATION OF A SEVERE THUNDERSTORM WATCH LATER THIS AFTERNOON/EARLY EVENING. TRENDS WILL CONTINUE TO BE MONITORED.

..COOK/GUYER.. 06/20/2015

ATTN...WFO...ABR...UNR...CYS...BYZ...RIW...

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	43510585	43170436	43120339	43390224	43660170	43970135
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