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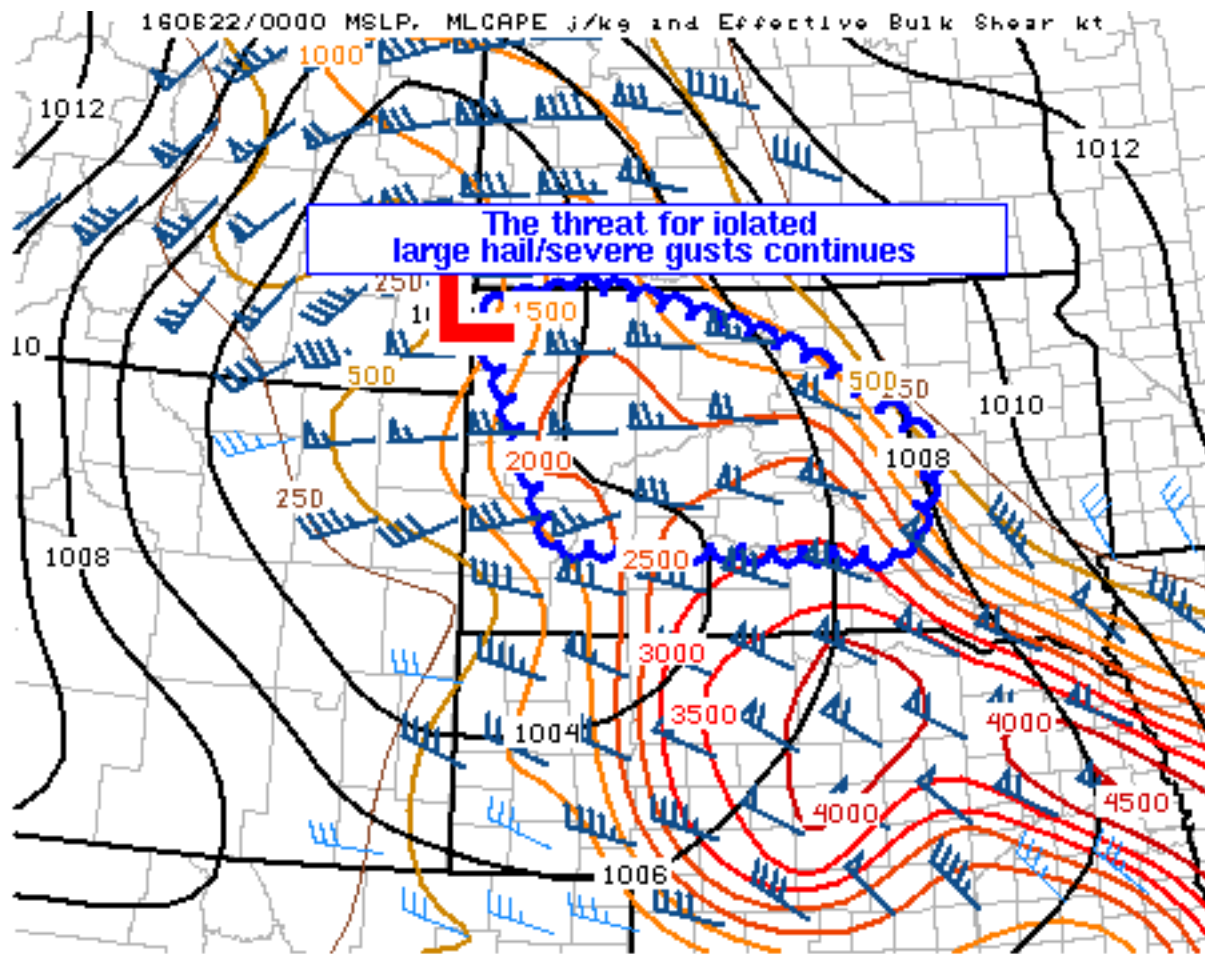
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Mesoscale Discussion 1011

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SPC MCD #1011

MESOSCALE DISCUSSION 1011
 NWS STORM PREDICTION CENTER NORMAN OK
 0800 PM CDT TUE JUN 21 2016

AREAS AFFECTED...WRN AND CNTRL SD

CONCERNING...SEVERE THUNDERSTORM WATCH 281...

VALID 220100Z - 220200Z

THE SEVERE WEATHER THREAT FOR SEVERE THUNDERSTORM WATCH 281 CONTINUES.

SUMMARY...THE THREAT FOR ISOLATED LARGE HAIL/SEVERE GUSTS WILL CONTINUE THROUGH THE MID-EVENING HOURS. CONVECTIVE TRENDS WILL BE MONITORED FOR THE POSSIBILITY OF A SEVERE THUNDERSTORM WATCH BEING NEEDED DOWNSTREAM OF SEVERE WATCH 281.

DISCUSSION...SURFACE ANALYSIS SHOWS THE NRN PERIPHERY OF VERY RICH LOW-LEVEL MOISTURE OVER N-CNTRL NEB AND S-CNTRL SD /UPPER 60S SURFACE DEWPOINTS/. THE INITIAL STORMS NEAR THE BLACK HILLS HAVE

MOVED EWD TOWARDS THE MO RIVER NEAR PIR AND HAVE WEAKENED IN THE PAST HOUR. THIS APPEARS TO BE RELATED TO THE STRENGTH OF THE CAP/MLCINH LOCATED FARTHER E WHEN MODIFYING THE 00Z RAP RAOB FOR SURFACE CONDITIONS. THE 00Z RAP RAOB FEATURED VERY STEEP H7-H5 LAPSE RATES /9.3 DEG C PER KM/ AND A WIND PROFILE VEERING FROM ELY TO WLY NOT FAR ABOVE THE SURFACE AND STRENGTHENING WITH HEIGHT TO 70-KT AROUND 300 MB. AS A RESULT...ORGANIZED STORMS WILL BE STRONGLY FAVORED GIVEN THE COMBINATION OF BUOYANCY/SHEAR. THE STORMS MANAGING TO BECOME SUPERCELLS WILL POSE THE GREATEST HAIL/WIND HAZARD.

BY MID TO LATE EVENING...THE LOW LEVEL JET IS FORECAST TO INTENSIFY WITH THE TERMINUS OF THE SPEED MAX NEAR THE SD/NEB BORDER. STRONG MOISTURE FLUX/ISENTROPIC LIFT WILL BECOME MORE SUPPORTIVE FOR ADDITIONAL STORM DEVELOPMENT OVER CNTRL SD AND POSSIBLY INTO ERN SD AHEAD OF THE SURFACE LOW TO THE W. IT REMAINS UNCERTAIN THE TIMING/LOCATION OF ADDITIONAL STORM COVERAGE. CONVECTIVE TRENDS WILL BE MONITORED FOR A SEVERE THUNDERSTORM WATCH DOWNSTREAM OVER ERN SD.

..SMITH.. 06/22/2016

ATTN...WFO...FSD...ABR...UNR...

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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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