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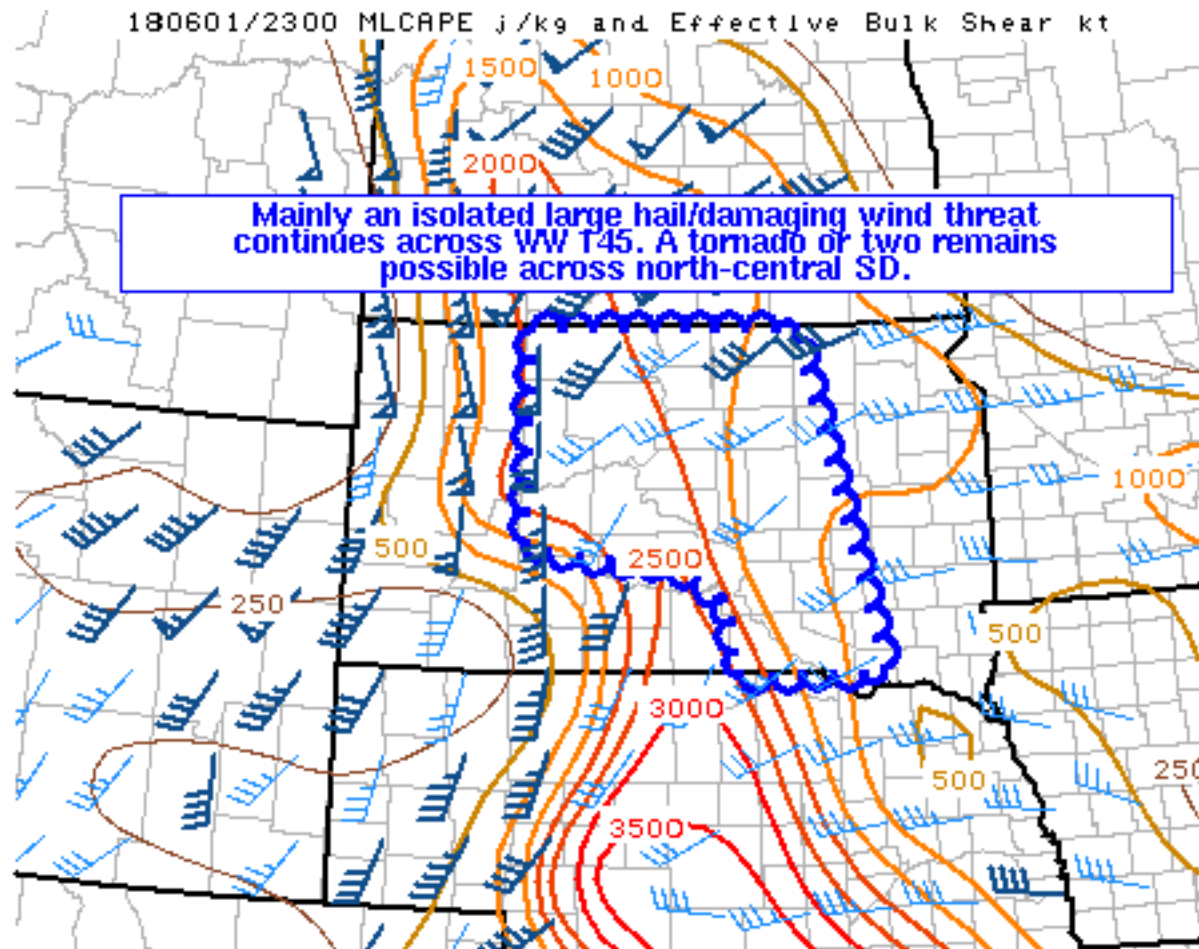
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## Mesoscale Discussion 616

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SPC MCD #0616

Mesoscale Discussion 0616  
 NWS Storm Prediction Center Norman OK  
 0632 PM CDT Fri Jun 01 2018

Areas affected...Portions of SD

Concerning...Severe Thunderstorm Watch 145...

Valid 012332Z - 020100Z

The severe weather threat for Severe Thunderstorm Watch 145 continues.

SUMMARY...Mainly an isolated large hail and damaging wind threat continues across WW 145. A tornado or two also remains possible, mainly across far north-central SD.

DISCUSSION...Isolated to widely scattered thunderstorms formed this afternoon across parts of central SD along a surface trough. A narrow axis of richer low-level moisture characterized by low 60s dewpoints is oriented from northwest to southeast across this



region. A corresponding maximum of instability is also present in the same general area, with 23Z RAP mesoanalysis estimating MLCAPE up to 1500-2000 J/kg. Two supercells over far north-central SD have produced large hail up to the size of golf balls over the past hour, with more widely scattered convection also present over far south-central SD.

As a cold front over western SD merges with the surface trough this evening, an increase in convective coverage appears likely across central SD and [WW 145](#). Large hail and damaging winds will continue to be main threats given the favorable thermodynamic and kinematic environment. Eventual consolidation into a line would suggest a greater wind threat this evening with eastward extent. A extension in area of [WW 145](#) into more of southeastern SD may be needed given current radar trends, but the environment does become less unstable due to a drier low-level airmass across this region. Finally, a small part of far north-central SD appears to have slightly stronger low-level flow, and a tornado cannot be ruled out across that area in the short term.

..Gleason.. 06/01/2018

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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](mailto:spc.feedback@noaa.gov)  
Page last modified: June 02, 2018

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