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Mesoscale Discussion 1122

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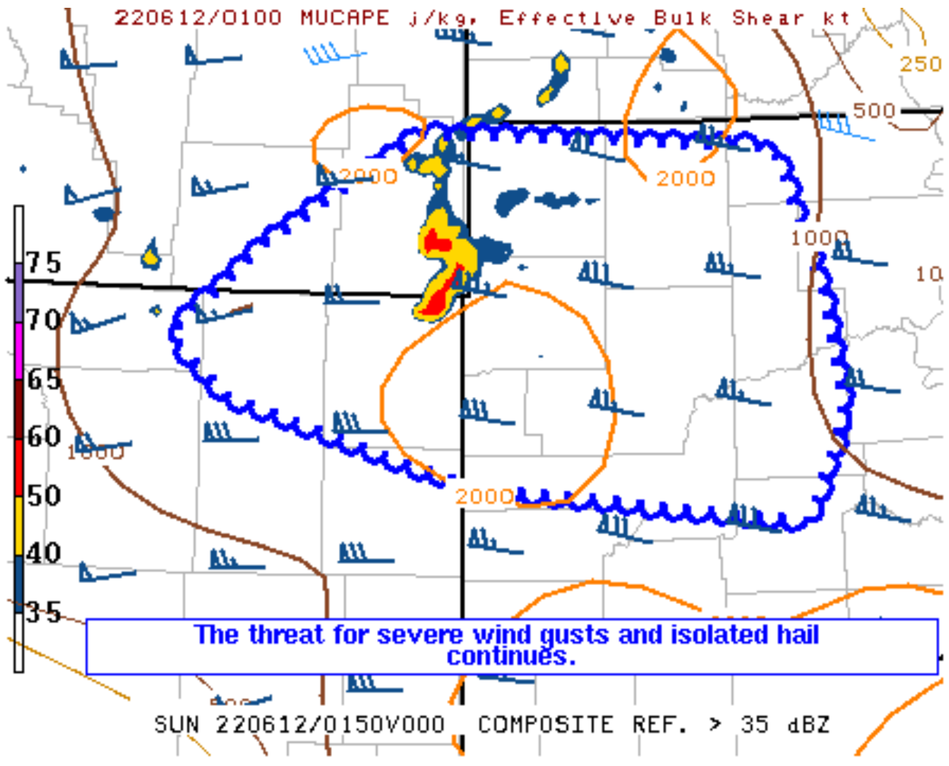

SPC MCD #1122

Mesoscale Discussion 1122
NWS Storm Prediction Center Norman OK
0904 PM CDT Sat Jun 11 2022

Areas affected...Extreme southeast MT/northeast WY into western SD

Concerning...Severe Thunderstorm Watch 347...

Valid 120204Z - 120330Z

The severe weather threat for Severe Thunderstorm Watch 347 continues.

SUMMARY...The threat for severe wind gusts and isolated hail will continue this evening and potentially into late tonight.

DISCUSSION...At 02Z, two relatively long-lived supercells are approaching northwest South Dakota. Sporadic severe wind/hail reports have been received from these cells thus far. The environment remains favorable for organized convection, with MLCAPE of 1000-1500 J/kg and effective shear of 60+ kt noted in the 00Z UNR sounding. There has been some tendency for clustering over the last hour, with additional convection developing northeast of the ongoing supercells. Further upscale growth into a small MCS remains possible later tonight, as a south-southeasterly low-level jet gradually increases with time. This could result in a somewhat more focused area of severe wind potential into the late evening, though increasing MLCINH may tend to mitigate this threat to some extent.

Additional development of primarily elevated storms is possible behind the initial cluster, with favorable low-level moisture, midlevel lapse rates, and deep-layer shear likely to be maintained into late tonight. Any such redevelopment could pose a threat of isolated hail and strong wind gusts as it spreads east-southeastward.

..Dean.. 06/12/2022

...Please see www.spc.noaa.gov for graphic product...

ATTN...WFO...ABR...UNR...BYZ...

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spc.feedback@noaa.gov
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