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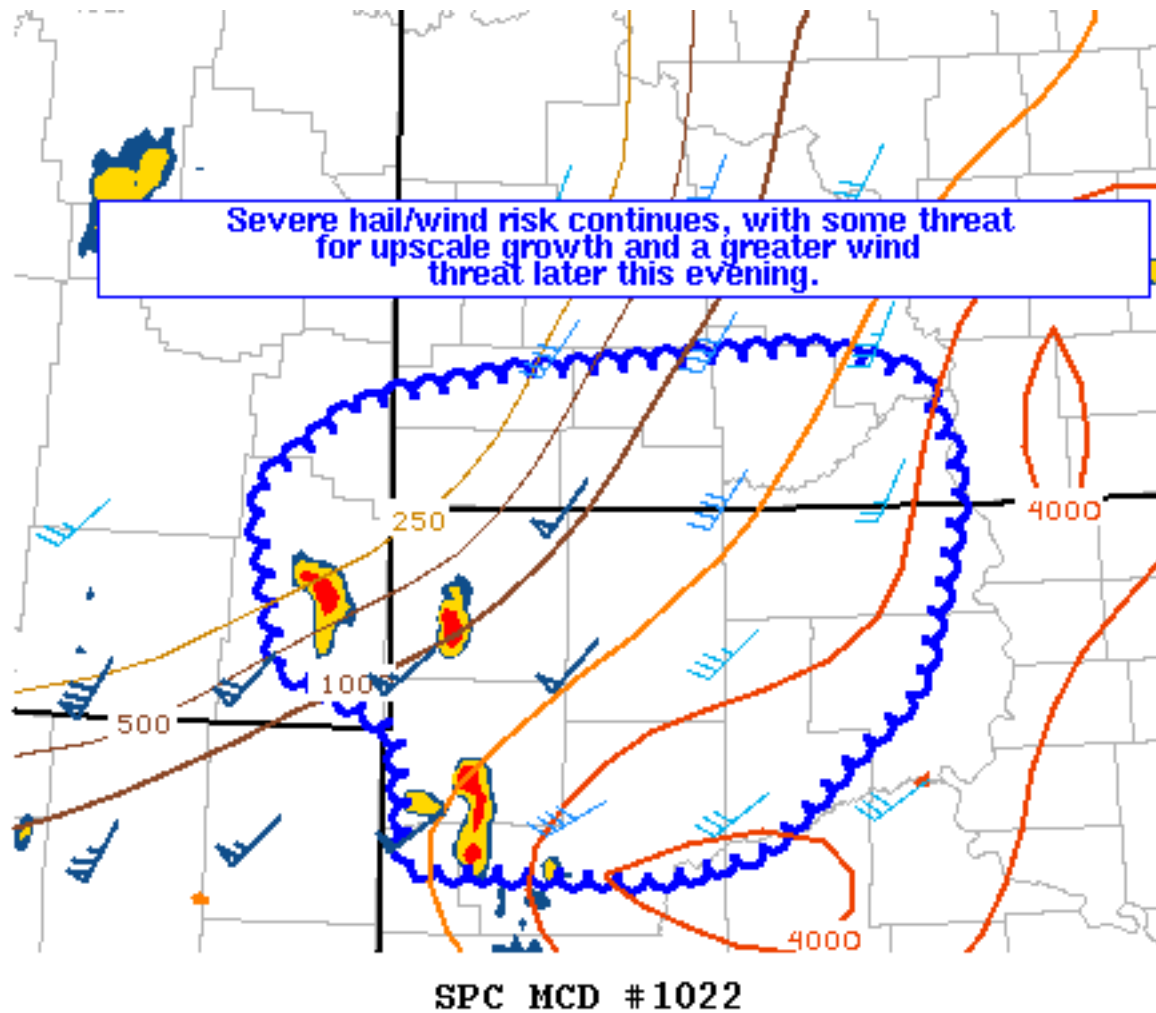
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Mesoscale Discussion 1022

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Mesoscale Discussion 1022

NWS Storm Prediction Center Norman OK

0803 PM CDT Fri Jun 07 2019

Areas affected...Southeast MT...Western SD...Southwest ND

Concerning...Severe Thunderstorm Watch 340...341...

Valid 080103Z - 080230Z

The severe weather threat for Severe Thunderstorm Watch 340, 341 continues.

SUMMARY...Severe thunderstorms capable of large hail and severe wind gusts will continue, with some upscale growth possible later this evening into northwest SD/southwest ND.

DISCUSSION...Two long-lived elevated clusters are moving across the northern portion of WW 340 as of 0045Z, with another outflow-driven cluster moving northeastward out of the Black Hills. The northern clusters are likely somewhat elevated and are moving along the



northern edge of stronger MUCAPE (1000–2000 J/kg per recent mesoanalyses). Effective shear of 35–45 kt (for parcels originating around 800 mb) is more than sufficient to maintain organized structures through the evening.

As convection evolves tonight, one or more upscale growing clusters may develop, either as separate clusters begin to consolidate, or as bowing segments develop out of the existing clusters. The northern clusters have shown some tendency toward a more linear mode over the last half hour, as new updrafts preferentially develop on the south edge closer to the stronger buoyancy. Should upscale growth occur, an increasing severe wind threat will spread downstream into the northeastern portion of [WW 340](#) and the southwest portion of newly issued [WW 341](#). Otherwise, existing activity will continue to pose a threat of hail and localized severe wind through the evening.

..Dean.. 06/08/2019

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

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