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About Tornadoes

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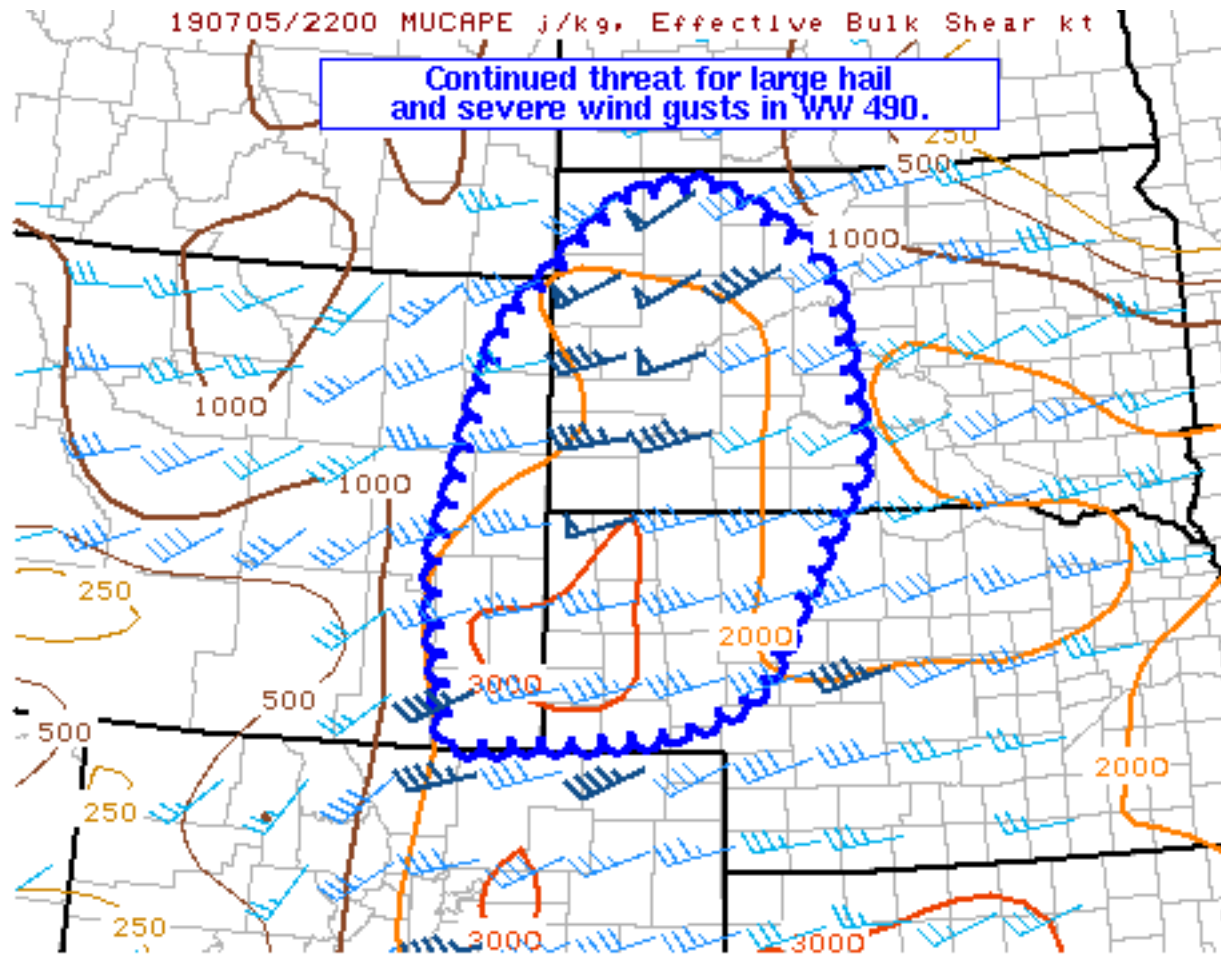
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Mesoscale Discussion 1384

< Previous MD

Next MD >



Mesoscale Discussion 1384

NWS Storm Prediction Center Norman OK

0619 PM CDT Fri Jul 05 2019

Areas affected...Eastern Wyoming...western South Dakota...Nebraska
Panhandle...portions of north-central Nebraska

Concerning...Severe Thunderstorm Watch 490...

Valid 052319Z - 060115Z

The severe weather threat for Severe Thunderstorm Watch 490
continues.

SUMMARY...Ongoing storms will continue to pose threat for large
hail, severe wind gusts, and perhaps a tornado. Evolution of the
ongoing activity is unclear. Trends are being monitored for
potential downstream WW.

DISCUSSION...Scattered supercells are ongoing within WW 490. These
storms have produced several large hail reports over the past 1-2



hours. Ongoing activity will be capable of large hail, severe wind gusts, and perhaps a tornado. As these storms progress east, they will encounter an axis of richer boundary layer moisture with dewpoints in the low 60s F across western SD/NE. Around 50 kts of 0-6 km shear has been sampled by the CYS/UDX radar VWPs. With MLCAPE of 1500-2000 J/kg downstream, storms are expected maintain their intensity. The main limiting factor for storm longevity will be the rising mid-level heights this evening. With an increasingly unfavorable synoptic environment, congealing storms driven by a mature cold pool would be favored to last longer into the evening. CAM solutions are varying in their depiction of the evolution in the next few hours, leading to greater uncertainty. Upscale growth appears most likely in western South Dakota given the current number of interacting storms and stronger upper-level forcing. However, two mature supercells moving into the Nebraska Panhandle may also persist for a few hours. While a downstream WW seems probable in the next several hours, the exact timing/configuration is a bit unclear given that central South Dakota and central Nebraska may be impacted at different times. Trends will continue to be monitored for the potential need for a new WW issuance downstream.

..Wendt.. 07/05/2019

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

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