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Storm Reports

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Svr. Tstm. Events

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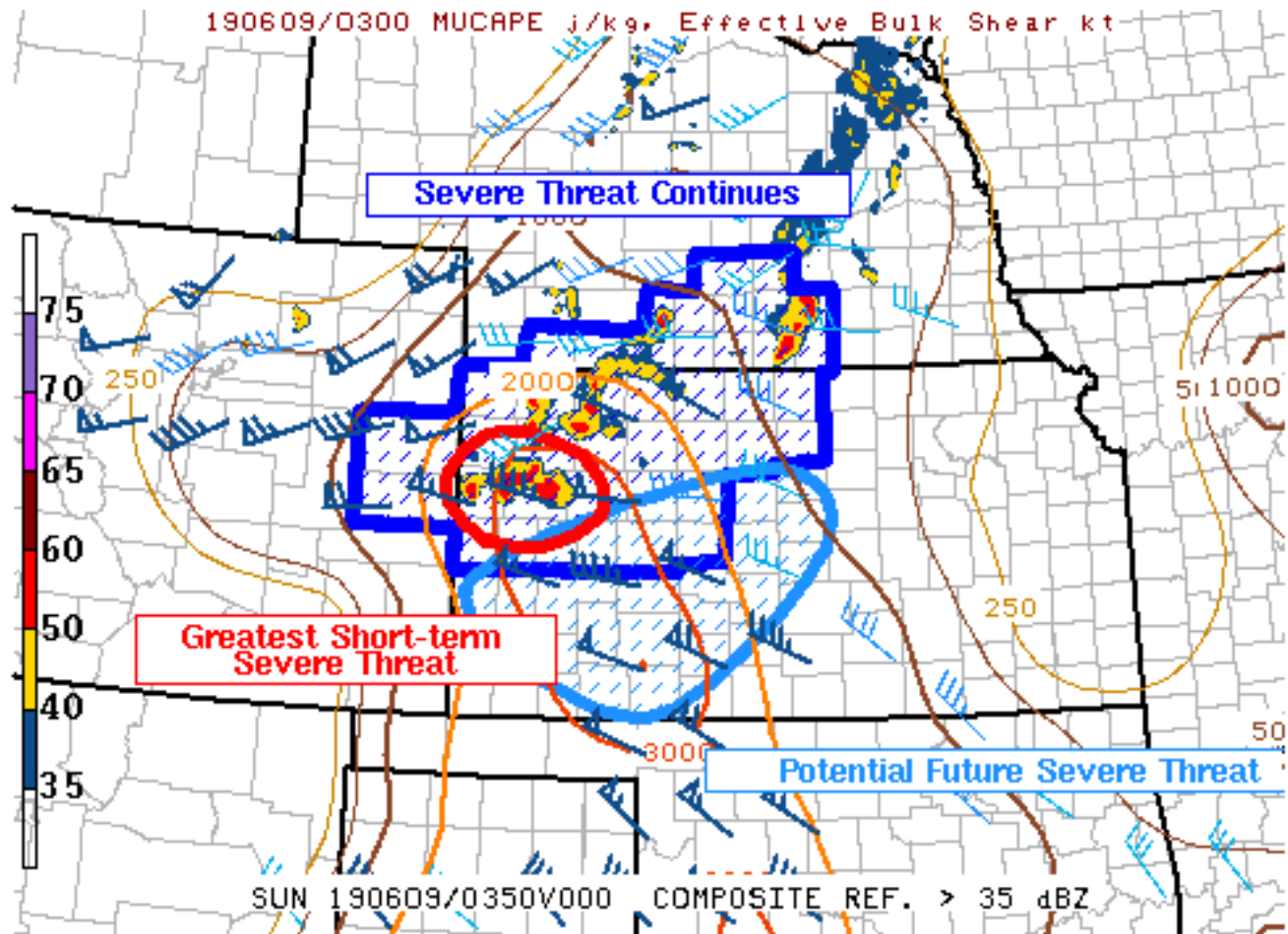
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Mesoscale Discussion 1036

< Previous MD

Next MD >



SPC MCD #1036

Mesoscale Discussion 1036

NWS Storm Prediction Center Norman OK

1108 PM CDT Sat Jun 08 2019

Areas affected...west Kansas and south-central Nebraska

Concerning...Severe Thunderstorm Watch 345...

Valid 090408Z - 090545Z

The severe weather threat for Severe Thunderstorm Watch 345 continues.

SUMMARY...Severe thunderstorms capable of large hail and gusty winds continue across Severe Thunderstorm Watch #345. Additionally, a tornado threat will continue for the next hour or so with a cluster of supercell thunderstorms to the south-southeast of Goodland, KS. The exact evolution of these thunderstorms may require either an extension of the current watch or the issuance of a new watch.

DISCUSSION...A cluster of supercell thunderstorms remain ongoing



across portions of northwest Kansas, to the southeast of Goodland. One of these thunderstorms is located ahead of the surface front, with additional supercells developing along an east-southeast advancing surface front. These thunderstorms continue to be capable of producing all severe modes: tornado, wind, and large hail. Considerable uncertainty remains regarding the long-term evolution of these thunderstorms. It is likely that a substantial cold pool has developed beneath these thunderstorms given the amount of mass the storms have processed. This would tend to suggest that the thunderstorms should continue to move east-southeast, accelerating with time, into the instability axis. At the same time, if the cold pool is not well established at present, the thunderstorm complex may evolve more eastward -- aligning closer to the effective deep-layer shear vectors, before the cold pool strengthens, eventually turning south. In the former scenario, an extension in space southward of Severe Thunderstorm Watch #345 would be necessary, whereas with the latter scenario, a new Severe Thunderstorm Watch would be necessary to encompass portions of Wichita's county warning area.

To the northeast of this cluster of supercells, another cluster of severe thunderstorms have developed along the front to the east-northeast of Goodland. These thunderstorms have had a history of being capable of hail and gusty winds, and should continue to move east along with the surface front.

Still farther northeast, across south-central Nebraska, earlier severe thunderstorms have waned in intensity slightly and are no longer severe. These thunderstorms should continue to move east this evening and overnight before outrunning the better thermodynamics and diminishing.

..Marsh/Grams.. 06/09/2019

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

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