



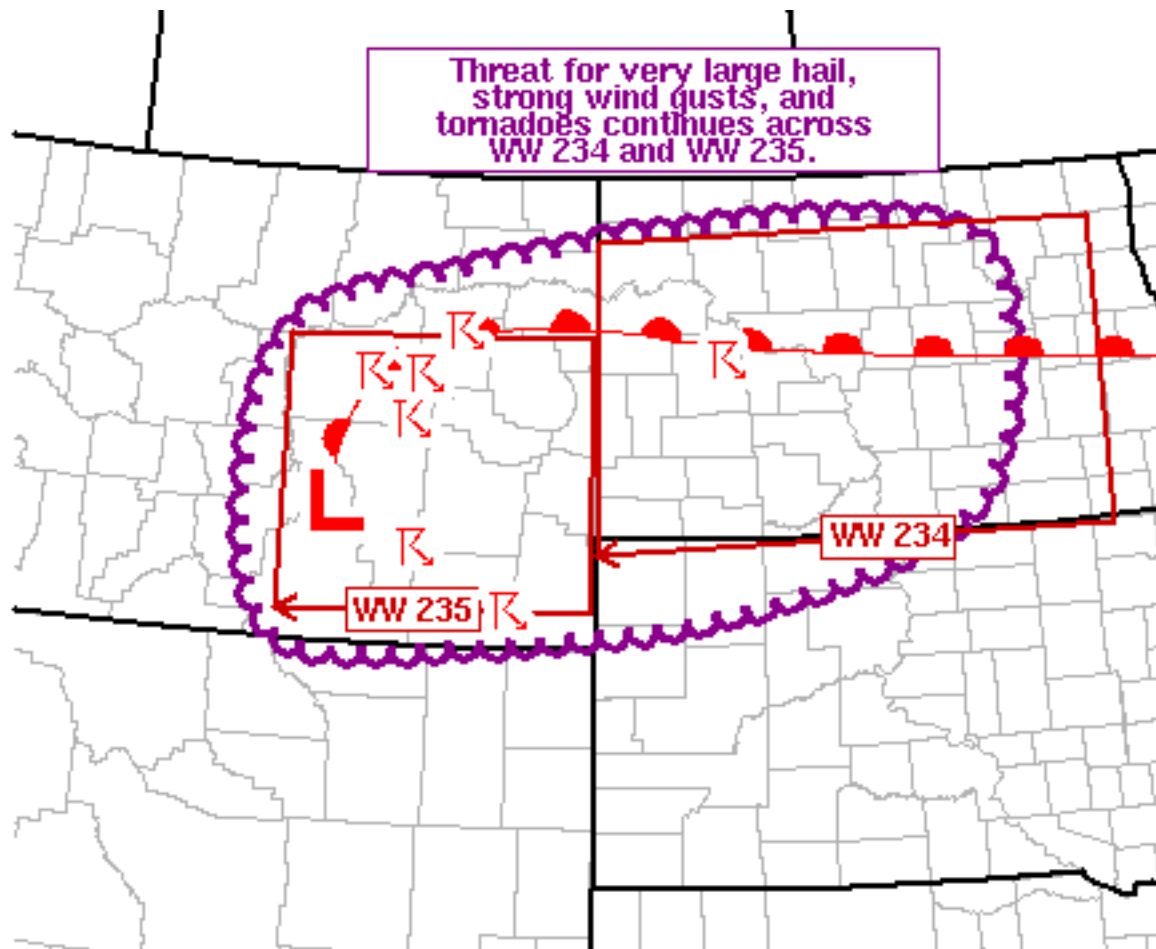
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## Mesoscale Discussion 929

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SPC MCD #0929

Mesoscale Discussion 0929

NWS Storm Prediction Center Norman OK

0659 PM CDT Thu Jun 28 2018

Areas affected...Eastern MT...Most of ND...Far Northwest SD

Concerning...Tornado Watch [234](#)...[235](#)...

Valid 282359Z - 290130Z

The severe weather threat for Tornado Watch 234, 235 continues.

SUMMARY...Threat for very large hail, strong wind gusts, and tornadoes continues from eastern MT across much of ND.

DISCUSSION...Thunderstorms developed quickly across eastern MT as the forcing for ascent attendant to the approaching shortwave trough encountered the warm, moist, and uncapped airmass across the area. Several of these storms have recently exhibited more eastward motion (versus northeastward), suggesting well-developed and organized updrafts exist. This more eastward motion will also take the storms

into airmass even more supportive of growth and persistence, with surface dewpoints commonly in the 70s. Current mesoanalysis estimates MLCAPE is over 4000 J/kg (locally over 5000 J/kg) across southeast MT. Shear is also quite strong, with effective bulk shear over 50 kt. All of these factors suggest a continued severe threat with very large hail and strong wind gusts as the primary severe hazards. A tornado or two is also possible.

Farther east, discrete supercell over Dunn County has recently shown a strengthening trend, likely a result of entering the uncapped and strongly unstable airmass across southwest ND. Southeasterly low-level winds beneath increasing westerly flow aloft is supporting strong deep vertical shear as well as enhanced low-level shear and helicity. Given the strong instability and favorable shear, the ongoing discrete storm will pose a risk for all severe hazards, including very large hail and tornadoes.

..Mosier.. 06/28/2018

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Page last modified: June 29, 2018

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