

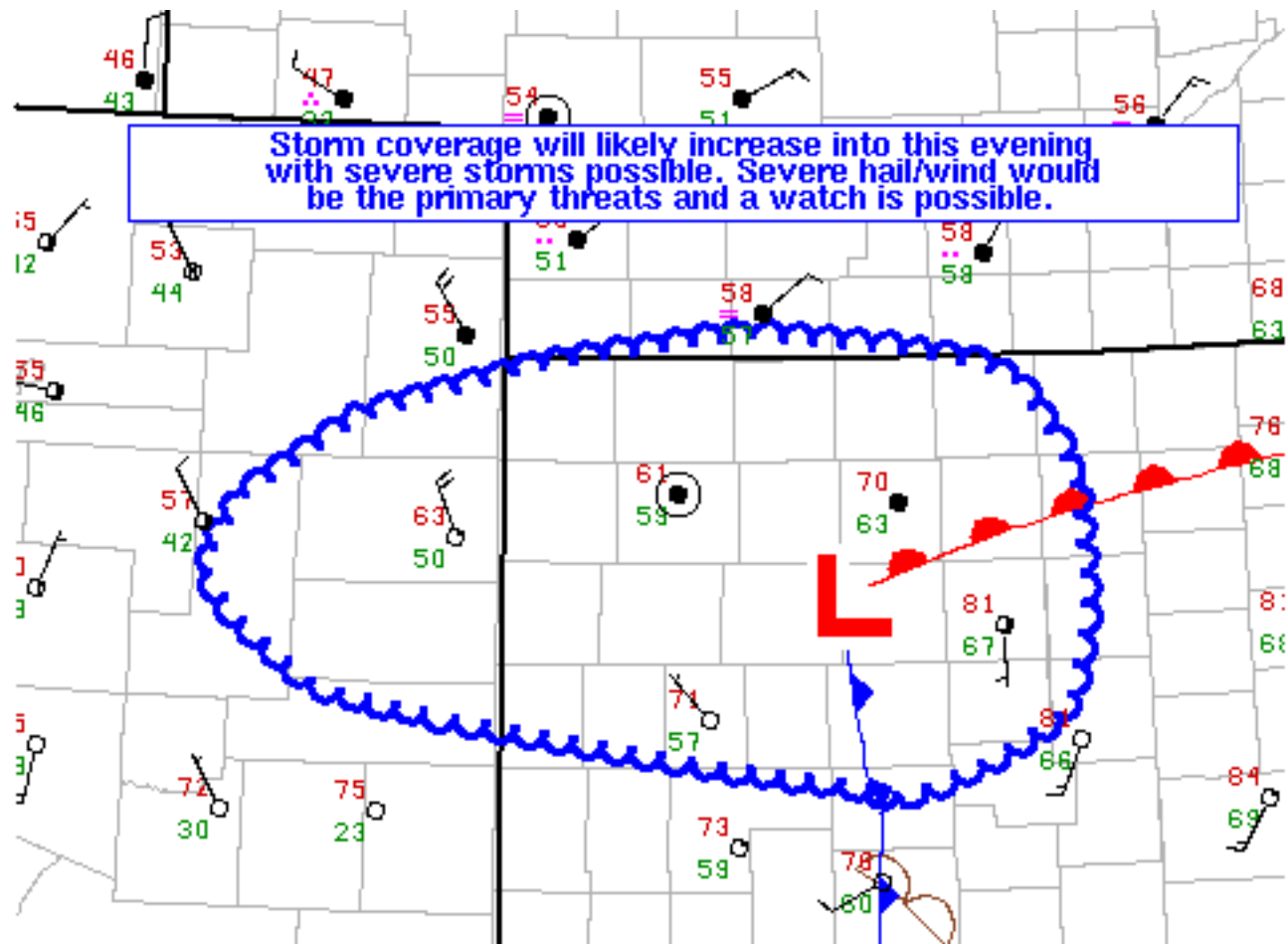
[Site Map](#)[News Organization](#)Search for:  SPC NCEP All NOAALocal forecast by  
"City, St" or "ZIP" Find us on  
Facebook

SPC on Facebook

@NWSSPC

NCEP Quarterly  
Newsletter[Home \(Classic\)](#)[SPC Products](#)[All SPC Forecasts](#)[Current Watches](#)[Meso. Discussions](#)[Conv. Outlooks](#)[Tstm. Outlooks](#)[Fire Wx Outlooks](#) [RSS Feeds](#)[E-Mail Alerts](#)[Weather Information](#)[Storm Reports](#)[Storm Reports Dev.](#)[NWS Hazards Map](#)[National RADAR](#)[Product Archive](#)[NOAA Weather Radio](#)[Research](#)[Non-op. Products](#)[Forecast Tools](#)[Svr. Tstm. Events](#)[SPC Publications](#)[SPC-NSSL HWT](#)[Education & Outreach](#)[About the SPC](#)[SPC FAQ](#)[About Tornadoes](#)[About Derechos](#)[Video Lecture Series](#)[WCM Page](#)[Enh. Fujita Page](#)[Our History](#)[Public Tours](#)[Misc.](#)[Staff](#)[Contact Us](#)[SPC Feedback](#)

## Mesoscale Discussion 858

[< Previous MD](#)[Next MD >](#)

SPC MCD #0858

Mesoscale Discussion 0858

NWS Storm Prediction Center Norman OK

0323 PM CDT Tue May 28 2019

Areas affected...portions of eastern Colorado and northwest Kansas

Concerning...Severe potential...Watch possible

Valid 282023Z - 282300Z

Probability of Watch Issuance...40 percent

SUMMARY...Storm coverage is likely to increase into this evening with severe storms possible across portions of eastern Colorado and northwest Kansas. Severe hail/wind would be the primary threats and a watch issuance is possible.

DISCUSSION...Storms have developed in eastern Colorado along an area of surface convergence, possibly westward extension of the surface low/trough. Additionally, there is building Cu extending southeast along an axis of surface convergence. An upper-level trough is



slowly moving eastward, with height falls noted over the area and 500 mb temperatures decreasing below -15 C, and the surface low/cyclone is likely to track east-northeast this evening/tonight.

Mid-level lapse rates will continue to steepen and with surface convergence, a few storms are expected to develop and intensify. A relatively sharp west-east gradient of 500-2000 J/kg of MLCAPE should allow storms to develop with effective bulk shear of 40-60 knots indicating the potential supercell development. Given the CAPE/shear, large hail is possible and damaging wind gusts are also possible given the strong synoptic winds and near adiabatic low-level lapse rates due to insolation. Though there remains some uncertainty regarding severe storm coverage across the area, a watch is possible.

..Nauslar/Thompson.. 05/28/2019

...Please see [www.spc.noaa.gov](http://www.spc.noaa.gov) for graphic product...

ATTN...WFO...ICT...GID...DDC...GLD...PUB...BOU...

LAT...LON	40110064	40019966	39929920	39529888	38969881	38479893
	38259944	38139983	38200018	38290099	38470235	38590303
	38850344	39080366	39370345	39740280	39970183	40110064

[Top/All Mesoscale Discussions/Forecast Products/Home](#)

Weather Topics:

[Watches](#), [Mesoscale Discussions](#), [Outlooks](#), [Fire Weather](#), [All Products](#), [Contact Us](#)

NOAA / National Weather Service  
 National Centers for Environmental Prediction  
 Storm Prediction Center  
 120 David L. Boren Blvd.  
 Norman, OK 73072 U.S.A.  
[spc.feedback@noaa.gov](mailto:spc.feedback@noaa.gov)  
 Page last modified: May 28, 2019

[Disclaimer](#)  
[Information Quality](#)  
[Help](#)  
[Glossary](#)

[Privacy Policy](#)  
[Freedom of Information Act \(FOIA\)](#)  
[About Us](#)  
[Career Opportunities](#)