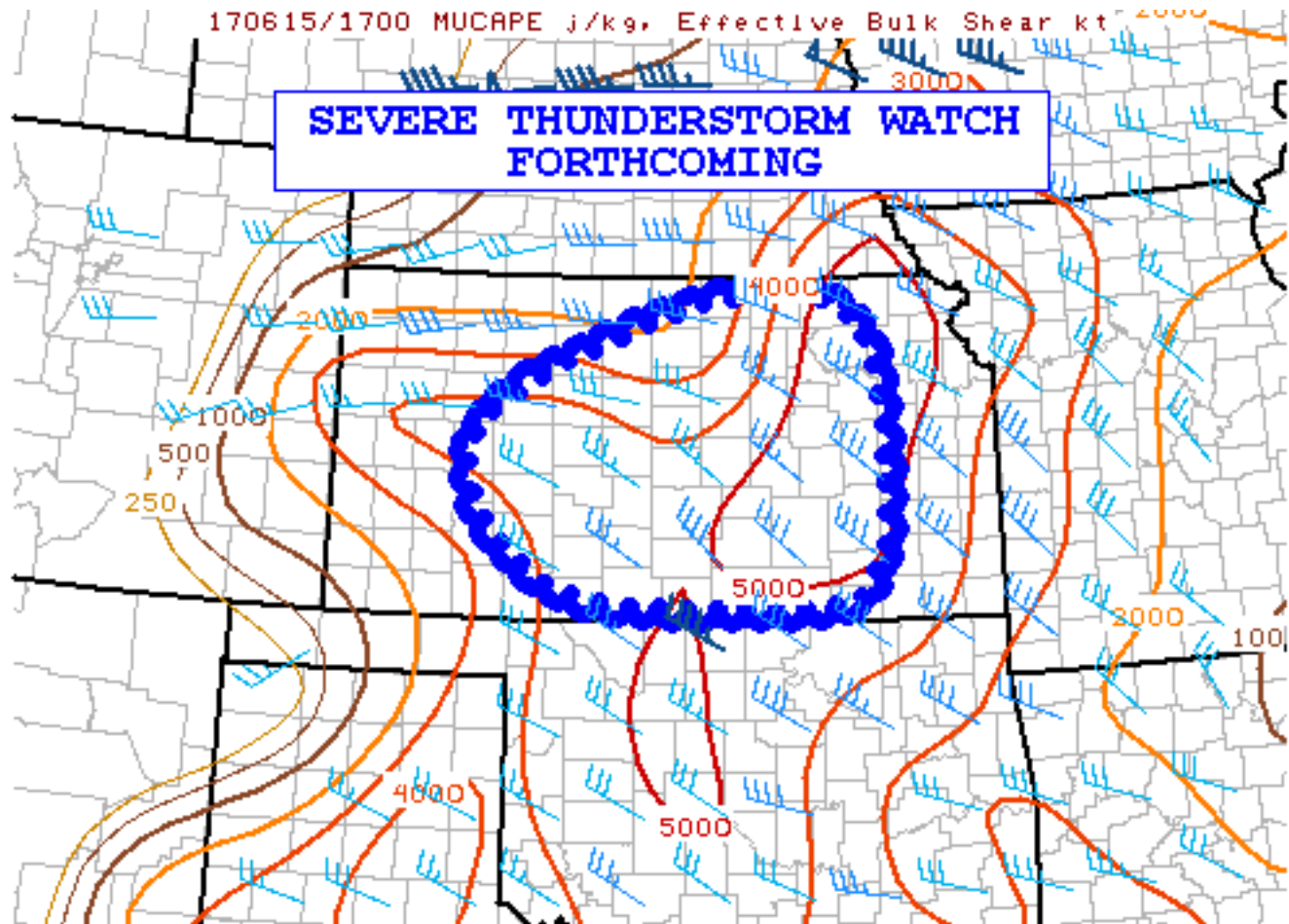


Site
Map

News Organization

Search for: SPC NCEP All NOAA Local forecast by
"City, St" or "ZIP" City, St [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](#)[Watch/Warning 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 1039

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

SPC MCD #1039

Mesoscale Discussion 1039

NWS Storm Prediction Center Norman OK

1249 PM CDT Thu Jun 15 2017

Areas affected...A large part of Kansas

Concerning...Severe potential...Severe Thunderstorm Watch likely

Valid 151749Z - 152015Z

Probability of Watch Issuance...95 percent

SUMMARY...A Severe Thunderstorm Watch is forthcoming.

DISCUSSION...Cumulus fields are becoming increasingly agitated along a composite boundary extending west-east from west of Russell to southwest of Hill City. Explosive thunderstorm development is expected within this corridor in the 1830Z-2000Z time frame. Widespread strong insolation is supporting the erosion of modest capping aloft, and an upward trend is already noted in shallow-convective processes -- thus relatively early convective

development is expected. SBCAPE of 4000-6000 J/kg is noted south of the boundary, with 25-40 kt of effective shear. Initial supercell structures capable of very large hail and severe winds will be likely. Given the anticipated concentration of intense cold pools aided by DCAPE of 1300-1700 J/kg, upscale growth into a east-southeastward/southeastward-moving bowing MCS will likely occur thereafter. Widespread severe winds are expected, and localized pockets of 70-80 mph winds are also likely with line-embedded meso-vortices as convection advances across the region through into the late afternoon/early evening hours.

..Cohen/Hart.. 06/15/2017

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

ATTN...WFO...TOP...ICT...GID...DDC...GLD...

LAT...LON 37179903 37700015 38540048 39219954 39859737 39519610
38119588 37369604 37139665 37179903

[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
Page last modified: June 15, 2017

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

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