

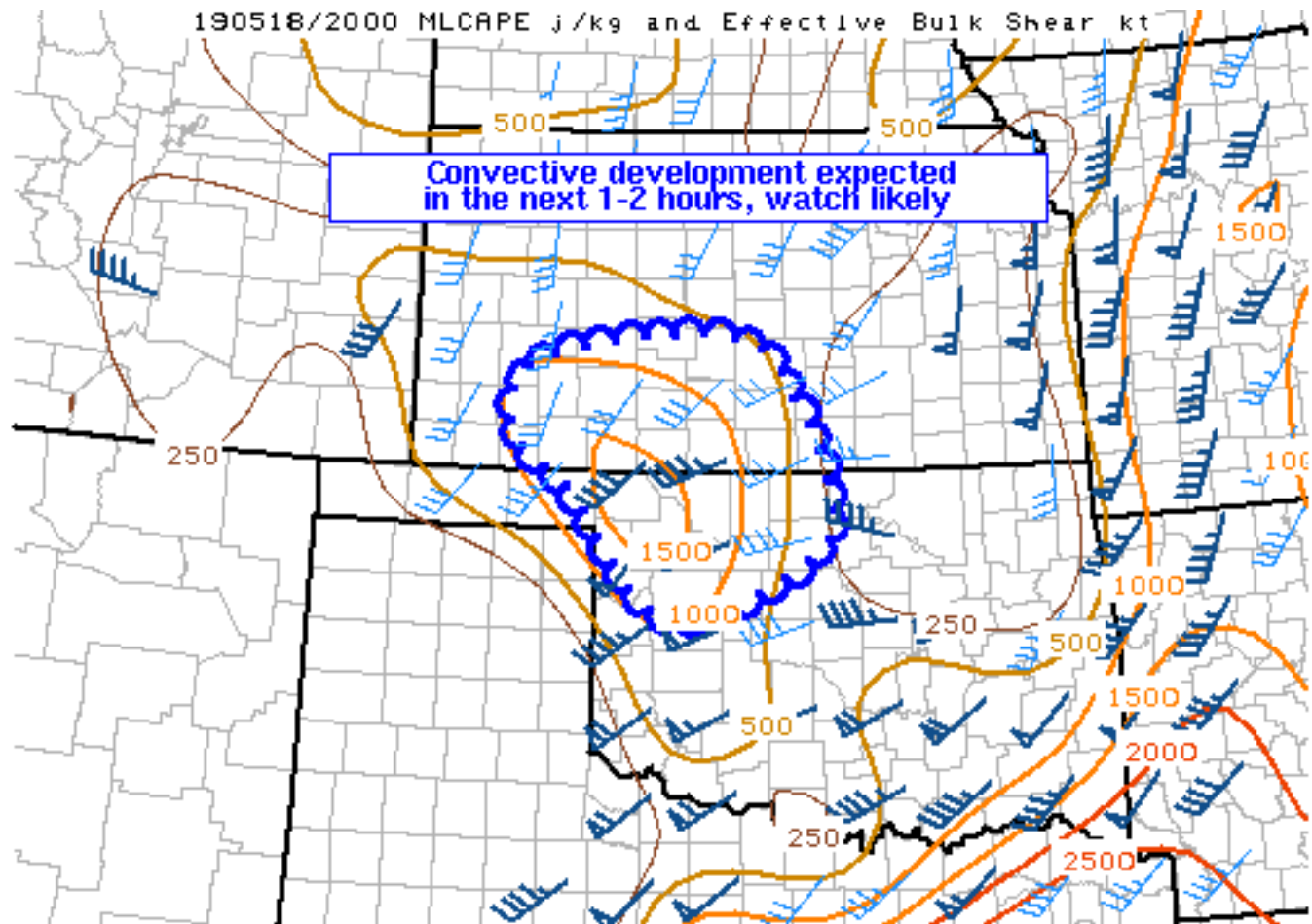
[Site Map](#)[News Organization](#)Search for: SPC NCEP All NOAALocal forecast by
"City, St" or "ZIP" Find us on
Facebook

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 671

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

Mesoscale Discussion 0671

NWS Storm Prediction Center Norman OK

0331 PM CDT Sat May 18 2019

Areas affected...South Central Kansas and Northwest Oklahoma

Concerning...Severe potential...Watch likely

Valid 182031Z - 182230Z

Probability of Watch Issuance...80 percent

SUMMARY...Convective development expected in the next 1-2 hours, watch likely.

DISCUSSION...Regional satellite shows a narrow area of developing cumulus over portions of southern Kansas and northwest Oklahoma, within an axis of modest boundary-layer moisture (low 60s F dew points) and clearing on the western periphery of high level clouds associated with ongoing convection farther east. Surface observations show modest 3-hour pressure falls in this region, with



a weak mesoscale circulation/meso-low forming, resulting in effective bulk shear of 40-50 kt. The combination of diabatic heating and cold-air advection aloft (resulting in steepening mid-level lapse rates) are serving as the impetus for destabilization over the region, with MLCAPE values now approaching 1000-1500 J/kg, and this trend should continue as the upper-level trough axis moves through the region. Farther west, weak convection has developed over portions of southeast Colorado, southwest Kansas and the Oklahoma Panhandle, in association with a mid-level short-wave trough. Convection is expected to initiate soon as this feature approaches the region, with large hail the primary risk, although a tornado or two is possible. A watch will be issued shortly.

..Karstens/Hart.. 05/18/2019

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

ATTN...WFO...ICT...OUN...DDC...AMA...

LAT...LON 35709910 36239980 36790022 37350090 37980061 38209853
37579776 36599742 36139784 35709910

[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: May 18, 2019

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

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