



Local forecast by "City, St" or "ZIP"

City, St

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

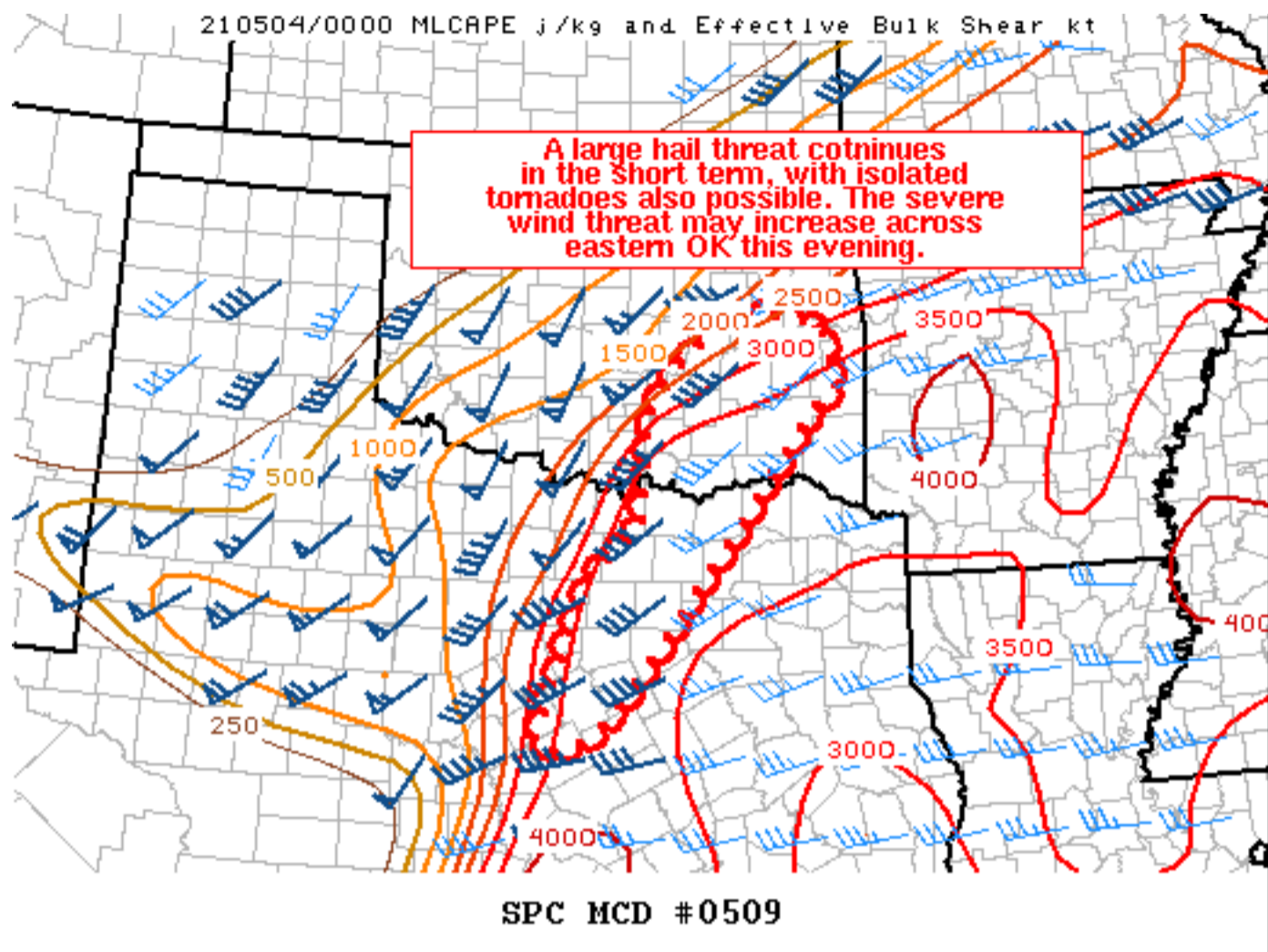
- Misc.
- Staff
- Contact Us
- SPC Feedback



## Mesoscale Discussion 509

[< Previous MD](#)   [Next MD >](#)

210504/0000 MLCAPE j/kg and Effective Bulk Shear kt



Mesoscale Discussion 0509  
NWS Storm Prediction Center Norman OK  
0738 PM CDT Mon May 03 2021

Areas affected...Portions of central/north-central TX into southern/eastern OK

Concerning...Tornado Watch 133...

Valid 040038Z - 040215Z

The severe weather threat for Tornado Watch 133 continues.

**SUMMARY**...A large hail threat continues in the short term, with isolated tornadoes also possible. The severe wind threat may increase across eastern OK this evening.

**DISCUSSION**...Numerous 1-1.75 inch large hail reports have been received over the past hour or two with severe storms across central/north-central TX into southern/eastern OK. Large to very large (1 to 3 inch) hail remains possible with the more discrete supercells currently in north-central TX given the 3500 J/kg of MLCAPE and steep mid-level lapse rates observed on the 00Z FWD sounding. The low-level flow is not overly strong across this region, but recent VWP's from KFWS show around 100-150 m<sup>2</sup>/s<sup>2</sup> of 0-1 km SRH, which should be sufficient for low-level rotation. Indeed, one supercell to the south of the Metroplex as of 0030Z has recently produced a tornado. Isolated tornadoes will remain possible across Tornado Watch 133 for at least a couple more hours, with somewhat better potential with at least semi-discrete storms. Further north into southern/eastern OK, storms have mostly congealed into a cluster. All severe hazards appear possible with this activity in the short term, but severe/damaging winds may become an increasing concern this evening across parts of eastern OK if upscale growth into a bow occurs along/south of a surface front.

..Gleason.. 05/04/2021

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

ATTN...WFO...TSA...FWD...OUN...

LAT...LON   31539807 32369778 33059752 33469699 34509689 35129644  
                   35489575 35399496 34799475 34559508 32539661 31699732  
                   31449768 31419796 31539807

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

Weather Topics:

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

National Weather Service • Since 1870

National Weather Service