

Local 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

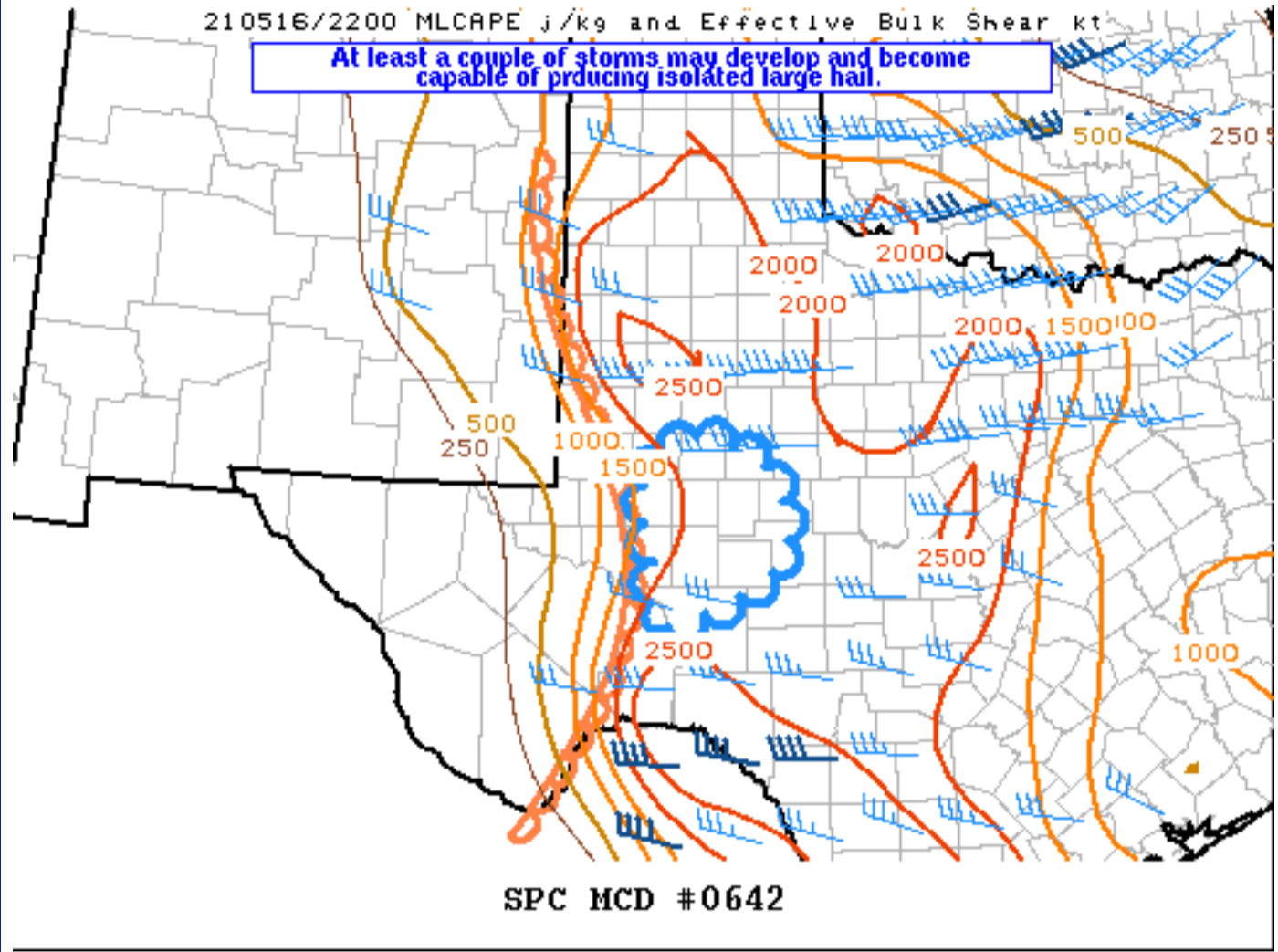
- Research
- Non-op. Products
- Forecast Tools
- Svr. Tstm. Events
- SPC Publications
- SPC-NSSL HWT
- Education & Outreach
- About the SPC
- SPC FAQ
- About Tornadoes
- About Derechos
- Video Lecture Series
- WCM Page
- Enh. Fujita Page
- Our History
- Public Tours

- Misc.
- Staff
- Contact Us
- SPC Feedback



## Mesoscale Discussion 642

[< Previous MD](#)   [Next MD >](#)



SPC MCD #0642

Mesoscale Discussion 0642  
 NWS Storm Prediction Center Norman OK  
 0552 PM CDT Sun May 16 2021

Areas affected...southwest Texas

Concerning...Severe potential...Watch possible

Valid 162252Z - 162345Z

Probability of Watch Issuance...40 percent

SUMMARY...Isolated storms may intensify over a portion of southwest TX and become capable of producing mainly large hail. It remains uncertain whether storm coverage and duration will be sufficient to warrant a WW, but short term trends are being monitored.

DISCUSSION...Early this evening deep convective initiation is occurring along the dryline across southwest TX just southeast of the Midland area. The atmosphere in this region is moderately to strongly unstable with up to 2500 J/kg MLCAPE and 7.5 C/km mid-level lapse rates. Effective bulk shear from 30-35 kt may undergo a slight increase this evening. Overall environment appears sufficient for a couple of supercells. However, given what appears to be a somewhat subsident regime aloft, there is some uncertainty regarding how long storms will last, especially with increasing convective inhibition associated with the onset of nocturnal cooling after 01Z. Nevertheless, at least a storm or two storm might intensify and become capable of producing large hail through about 02Z.

..Dial/Grams.. 05/16/2021

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

ATTN...WFO...SJT...MAF...

LAT...LON    31310195 32050209 32510166 32160067 31270059 30700190  
 31310195

[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