



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

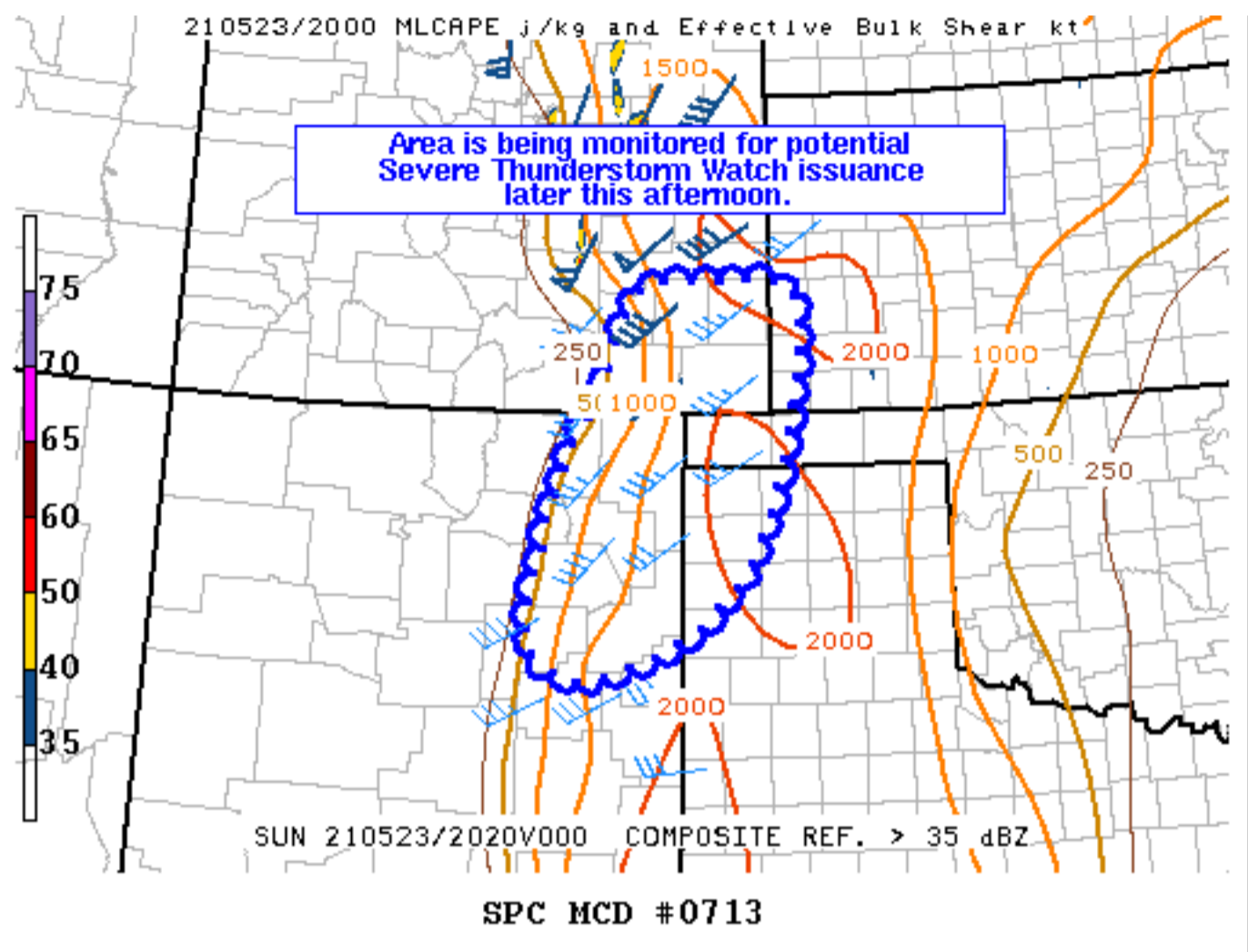
Contact Us  
SPC Feedback



## Mesoscale Discussion 713

< Previous MD    Next MD >

210523/2000 MLCAPE j/kg and Effective Bulk Shear kt



Mesoscale Discussion 0713  
NWS Storm Prediction Center Norman OK  
0341 PM CDT Sun May 23 2021

Areas affected...Eastern New Mexico...Southeast Colorado...far Southwest Kansas...and the Oklahoma/Texas Panhandles

Concerning...Severe potential...Watch possible

Valid 232041Z - 232215Z

Probability of Watch Issuance...40 percent

SUMMARY...Area is being monitored for potential severe thunderstorm watch later this afternoon.

DISCUSSION...Visible satellite shows a band of towering cumulus continuing to develop along a dry line extending from the Raton Mesa south across portions of eastern New Mexico. Water vapor shows an upper-level vort max ejecting into portions of north-central New Mexico. This feature should provide mid-level forcing for ascent as it overspreads the aforementioned convective development in the next couple of hours. As this occurs, isolated storms are expected to develop along the dry line.

Clear skies east of the dry line have allowed for sufficient destabilization to occur through early afternoon, with MLCAPE of 1500-2000 J/kg and 40-45 kt of effective shear. Should storms develop, they may struggle initially amid relatively drier low-level moisture in proximity to the dry line. However, farther east the environment is more supportive of organized convection, including supercells and multicell structures, with large hail and damaging winds the primary threats. A tornado or two is possible, particularly later this evening as boundary layer decoupling and low-level jet onset occur.

In summary, this region continues to be monitored for potential severe thunderstorm watch issuance later this afternoon.

..Karstens/Guyer.. 05/23/2021

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

ATTN...WFO...DDC...AMA...PUB...ABQ...

LAT...LON 35020286 34520417 34930480 36260452 37100409 38120358  
38230276 38040170 36070204 35020286

[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