

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

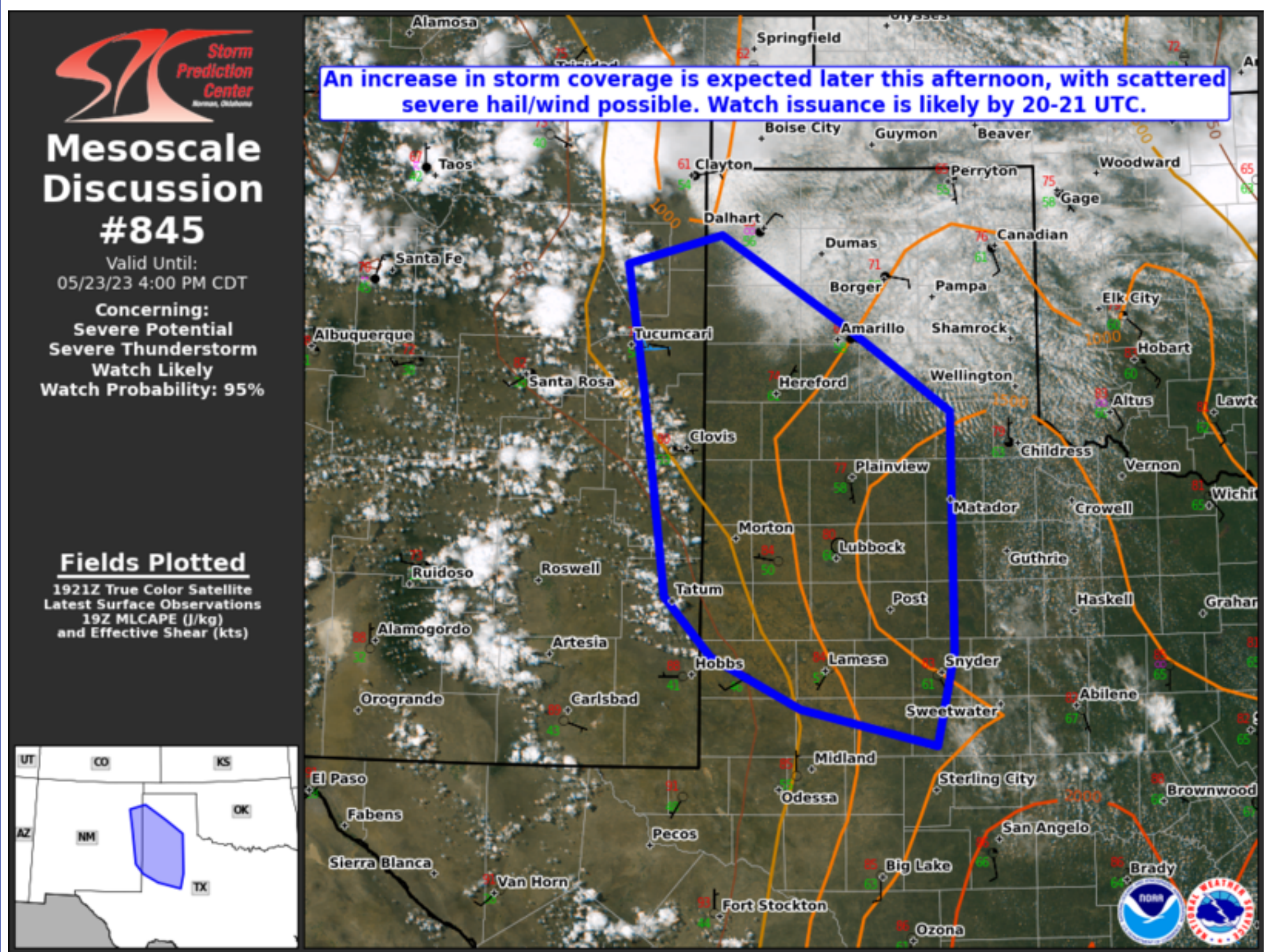
Research
 Non-op. Products
 Forecast Tools
 Svr. Tstm. Events
 SPC Publications
 SPC-NSSL HWT

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 845

< Previous MD Next MD >



Mesoscale Discussion #845
 Valid Until: 05/23/23 4:00 PM CDT
 Concerning: Severe Potential Severe Thunderstorm Watch Likely
 Watch Probability: 95%

Fields Plotted
 1921Z True Color Satellite
 Latest Surface Observations
 19Z MLCAPE (J/kg)
 and Effective Shear (kts)



Mesoscale Discussion 0845
 NWS Storm Prediction Center Norman OK
 0228 PM CDT Tue May 23 2023

Areas affected...Far eastern NM into parts of the TX Panhandle and South Plains

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

Valid 231928Z - 232100Z

Probability of Watch Issuance...95 percent

SUMMARY...Storm coverage is expected to increase later this afternoon, with scattered severe hail/wind eventually possible as storms mature. Severe Thunderstorm Watch issuance is likely by 20-21 UTC.

DISCUSSION...AT 1915 UTC, a strong thunderstorm is ongoing across far northeast NM in the vicinity of a minor MCV, while high-based cumulus is increasing farther south across eastern NM. Deep-layer flow is very weak in the immediate vicinity of the MCV, but modestly increases farther south, where westerly midlevel flow of 25-30 kt is supporting sufficient effective shear for some storm organization. Continued diurnal heating will eventually result in the development of scattered high-based thunderstorms. Initial activity may pose a threat of localized severe gusts and some hail, given the presence of modest buoyancy (MLCAPE of 500-1000 J/kg) and steep low/midlevel lapse rates.

With time, outflow-dominant storms will likely spread eastward into a larger portion of the southern TX Panhandle and South Plains. Convective mode becomes increasingly uncertain with time, but any remaining semi-discrete cells by late afternoon/early evening may begin to pose a greater threat for hail (potentially in excess of 2 inches in diameter) as they move into an increasingly unstable environment. Otherwise, the threat for outflow-driven severe gusts will continue, and possibly increase by early evening depending on the timing and extent of upscale growth.

Severe Thunderstorm Watch issuance is likely by 20-21 UTC in order to address the threats described above.

..Dean/Grams.. 05/23/2023

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

ATTN...WFO...LUB...AMA...MAF...ABQ...

LAT...LON 35780375 35990289 35320177 34670081 32860080 32150096
 32430216 32820297 33280339 34860359 35780375

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

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

National Weather Service • Since 1870