

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

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

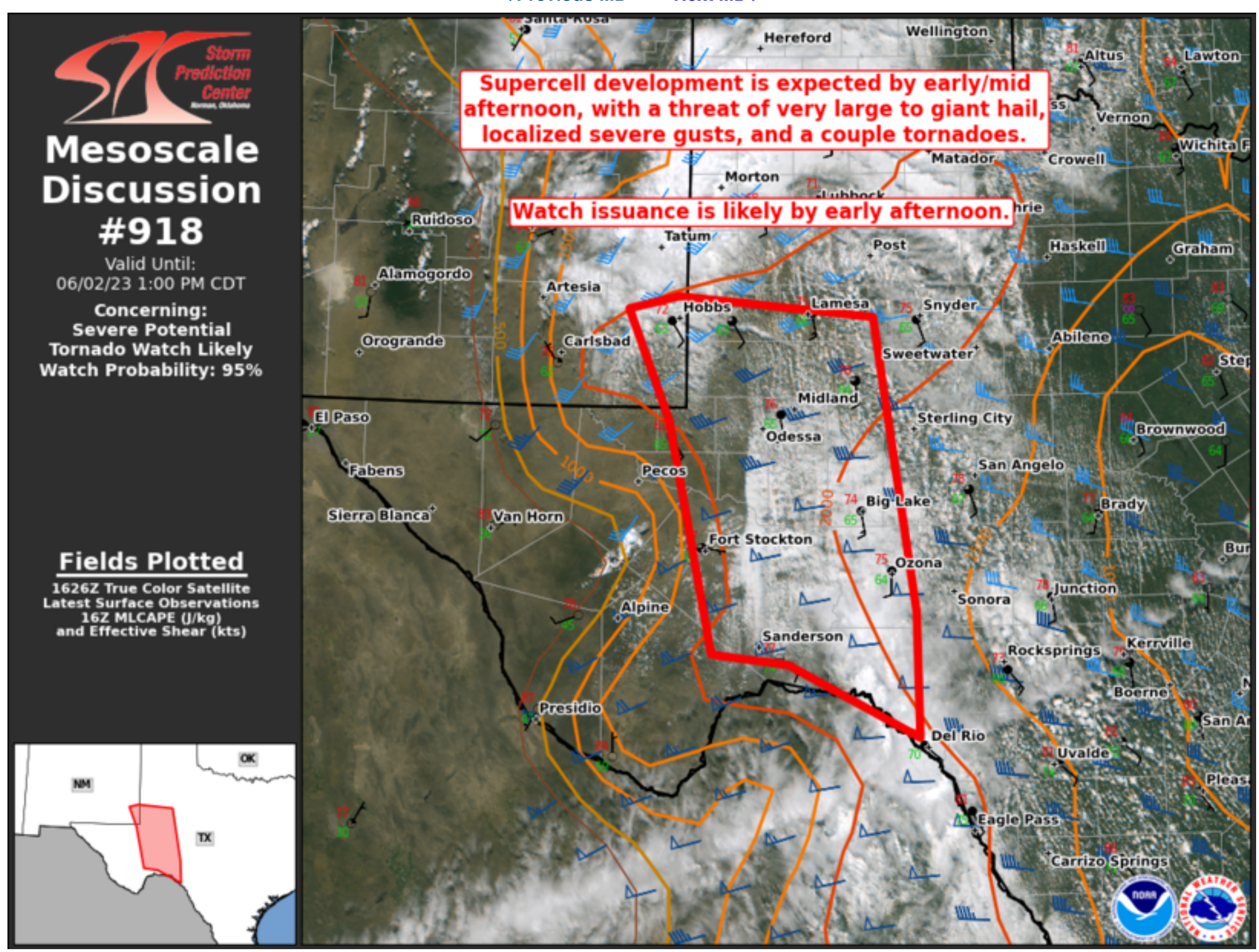
Education & Outreach
 About the SPC
 SPC FAQ
 About Tornadoes
 About Derechos
 Video Lecture Series
 WCM Page
 Enh. Fujita Page
 Our History
 Public Tours

Misc.
 Staff
 Contact Us
 SPC Feedback



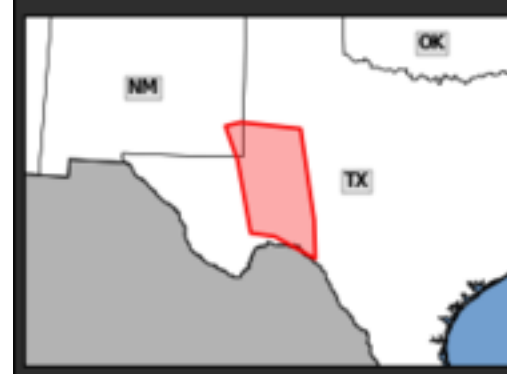
Mesoscale Discussion 918

< Previous MD Next MD >



Mesoscale Discussion #918
 Valid Until: 06/02/23 1:00 PM CDT
Concerning: Severe Potential Tornado Watch Likely
 Watch Probability: 95%

Fields Plotted
 16Z True Color Satellite
 Latest Surface Observations
 16Z MLCAPE (J/kg)
 and Effective Shear (kts)



Mesoscale Discussion 0918
 NWS Storm Prediction Center Norman OK
 1135 AM CDT Fri Jun 02 2023

Areas affected...TX Permian Basin and vicinity

Concerning...Severe potential...Tornado Watch likely

Valid 021635Z - 021800Z

Probability of Watch Issuance...95 percent

SUMMARY...Supercell development is expected by early/mid afternoon, with a threat of very large to giant hail (potentially 3-4 inches in diameter), localized severe gusts, and a couple of tornadoes. Tornado Watch issuance is likely by early afternoon.

DISCUSSION...Diurnal heating is underway across the TX Permian Basin region, with some thinning of low/midlevel cloudiness noted over the last hour. Steep midlevel lapse rates and rich low-level moisture are already supporting MLCAPE in excess of 1500-2000 J/kg, with an increase above 3000 J/kg possible this afternoon. Meanwhile, increasing midlevel flow near the base of a shortwave mid/upper-level trough moving across the southern Rockies is supporting effective shear of 40-55 kt across the region. This instability/shear combination will result in a very favorable severe thunderstorm environment, and scattered supercell development is expected by early/mid afternoon as favorable large-scale ascent attendant to the southern Rockies shortwave spreads over the region.

Elongated and relatively straight hodographs will favor splitting supercells, with a primary threat of very large to giant (potentially 3-4 inch in diameter) hail. While low-level flow will likely remain relatively modest, some backing of surface winds may support sufficient enhancement of low-level shear/SRH to support the threat for a couple of tornadoes, especially with any more intense and long-lived supercells. Localized severe gusts will be possible as well.

With supercell development possible within the next 2-3 hours, Tornado Watch issuance is likely by early afternoon.

..Dean/Grams.. 06/02/2023

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

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

LAT...LON 30080282 31900321 32760359 32860314 32710134 30410098
 29420096 30000212 30080282

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

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

National Weather Service • Since 1870