



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

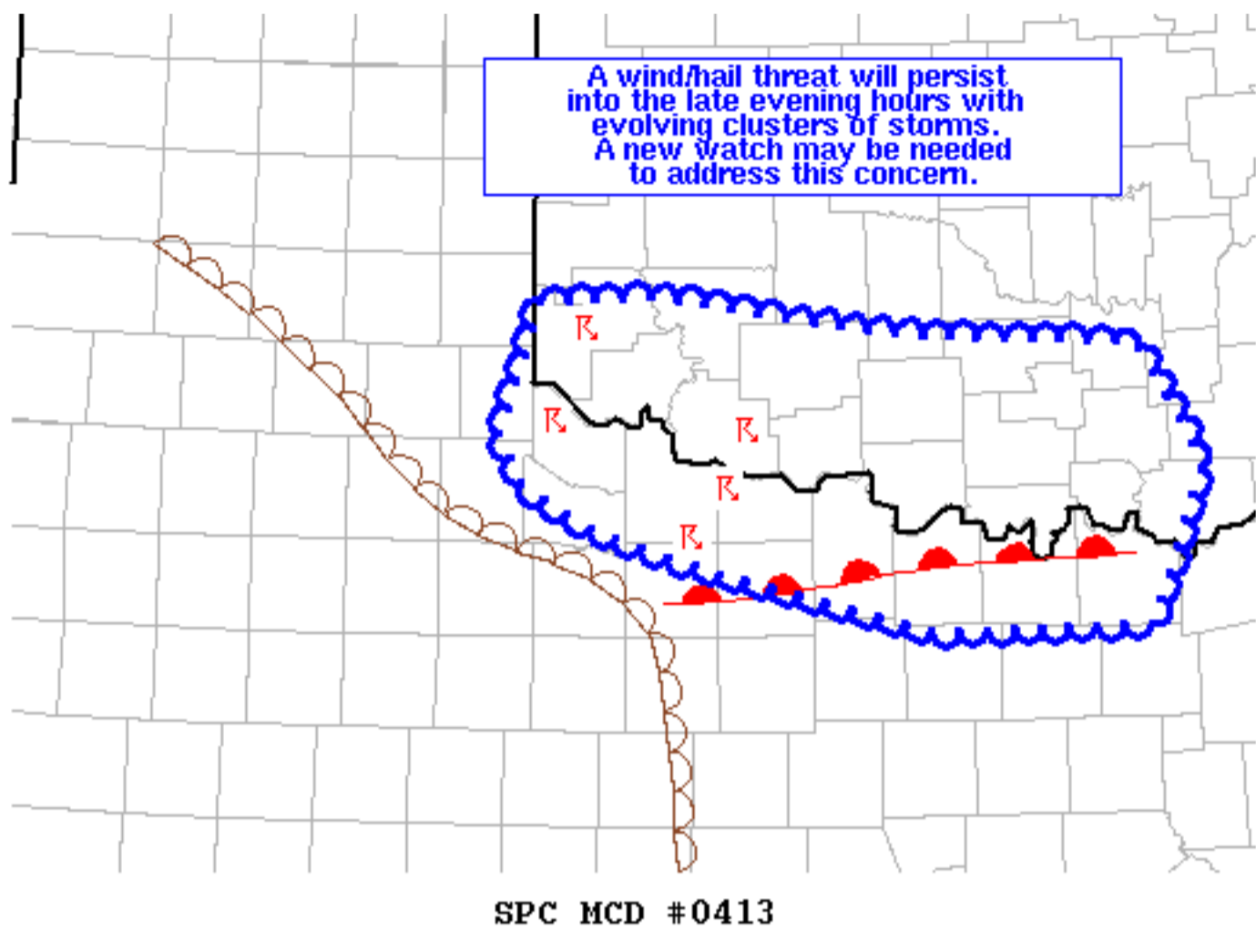
Contact Us

SPC Feedback



Mesoscale Discussion 413

< Previous MD Next MD >



Mesoscale Discussion 0413
NWS Storm Prediction Center Norman OK
0743 PM CDT Fri Apr 23 2021

Areas affected...Northwest Texas and Southwest Oklahoma

Concerning...Tornado Watch 100...

Valid 240043Z - 240245Z

The severe weather threat for Tornado Watch 100 continues.

SUMMARY...The tornado threat will continue to diminish over the next hour, but a wind/hail threat will likely persist into the late evening hours. A new watch may be needed to address this potential.

DISCUSSION...The notable supercell with a history of producing tornadoes and large hail along the Red River Valley has become outflow dominant over the past 30 minutes and is growing upscale within a cluster of new convective development. Despite this, the evolving cluster continues to show a strong presentation in IR imagery and resides within a favorable environment featuring 1500-2000 J/kg MLCAPE and 40 knots of effective bulk shear. This should continue to support a hail and damaging wind potential for the next 1-2 hours. Given that these storms remain along/just north of a weak warm frontal zone where 0-1 km shear is maximized (per recent KFDR VWP observations), a brief tornado or two will remain possible in the near term. Continued upscale growth, along with a gradual increase in surface-based inhibition and weakening low-level shear in the vicinity of the surface low, should continue to reduce the tornado potential heading into the late evening hours and favor a wind/hail threat. A similar evolution is anticipated for a second developing cluster of storms further upstream along the OK/TX Panhandle border. A new watch, or a watch extension, may be considered to address the wind/hail threat by 01 UTC.

..Moore.. 04/24/2021

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

ATTN...WFO...FWD...OUN...LUB...AMA...

LAT...LON 34959997 34989929 34879856 34789778 34729657 34149620
33409652 33409774 33559838 33719908 33909968 34110006
34330019 34959997

[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