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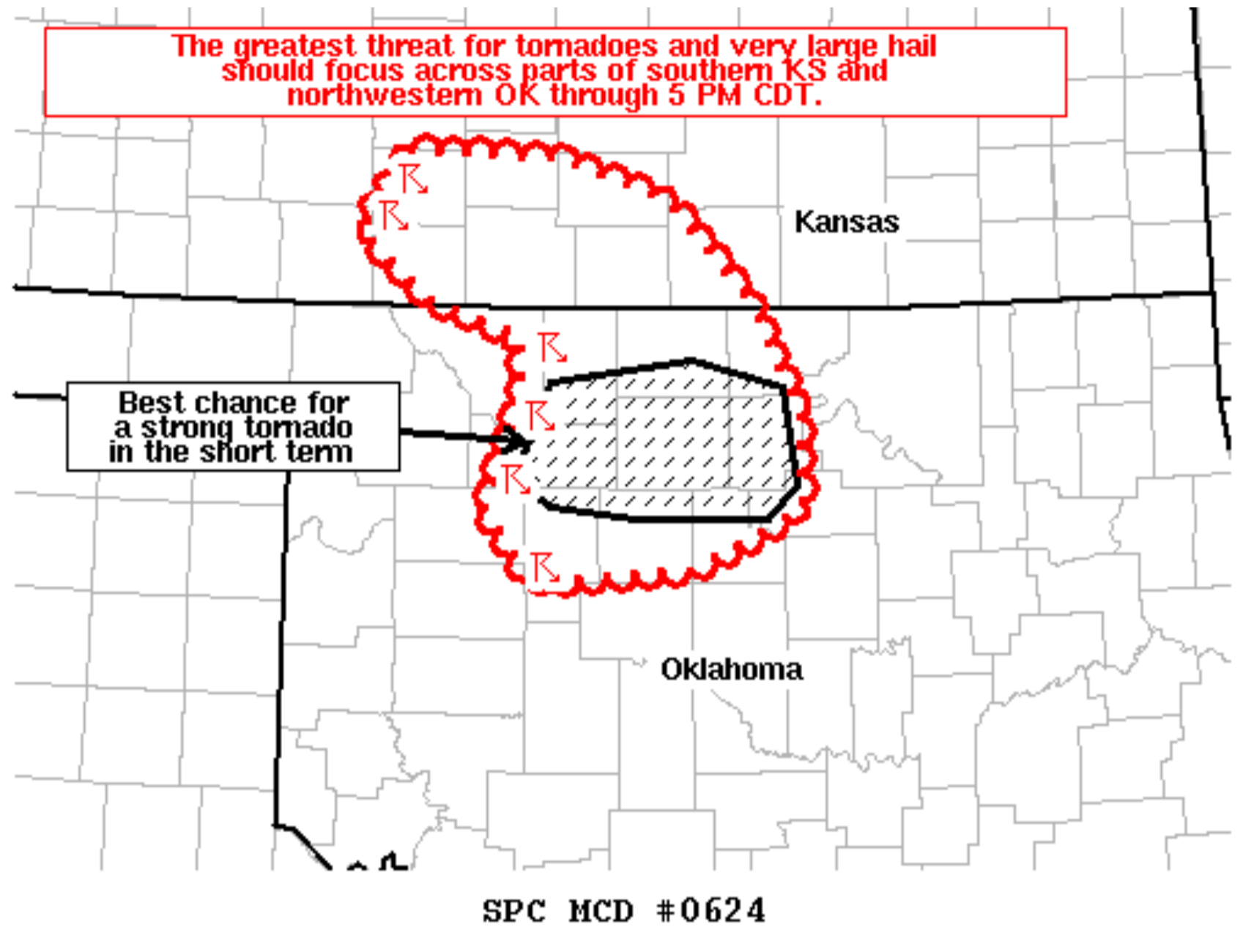
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- Home (Classic)
- SPC Products
 - All SPC Forecasts
 - Current Watches
 - Meso. Discussions
 - Conv. Outlooks
 - Tstm. Outlooks
 - Fire Wx Outlooks
 - RSS Feeds
 - E-Mail Alerts
- Weather Information
 - Storm Reports
 - Storm Reports Dev.
 - NWS Hazards 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 624

[< Previous MD](#) [Next MD >](#)



Mesoscale Discussion 0624
 NWS Storm Prediction Center Norman OK
 0332 PM CDT Mon May 02 2022

Areas affected...Portions of southern KS and northwestern into north-central OK

Concerning...Tornado Watch [171](#)...

Valid 022032Z - 022200Z

The severe weather threat for Tornado Watch 171 continues.

SUMMARY...The greatest threat for tornadoes and very large hail should focus across parts of southern Kansas and northwestern Oklahoma through 5 PM CDT.

DISCUSSION...A supercell has developed over part of southwestern KS in close proximity to the surface low, with large hail up to 1.75 inches in diameter reported so far. Other convection has initiated along the dryline in northwestern OK and is gradually intensifying into supercells. Recent VWP's from KVNx show a strengthening wind profile with height through mid levels, with around 200 m2/s2 of 0-1 km SRH and 50+ kt of deep-layer shear. Even stronger low-level SRH may be present farther east into north-central OK along/near the effective warm front. Any supercells that can remain at least semi-discrete will continue to pose a threat for very large hail (2 to 3 inch diameter) and tornadoes as they move eastward over the next hour or two given this favorable low-level and deep-layer shear, and the presence of 1000-2500 J/kg of MLCAPE. Greater boundary-layer instability is present over northwestern into north-central OK in a fairly narrow corridor, where robust heating is occurring and surface dewpoints have recently surged into the upper 60s. This area will probably have the best chance for a strong tornado in the short term.

..Gleason.. 05/02/2022

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

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