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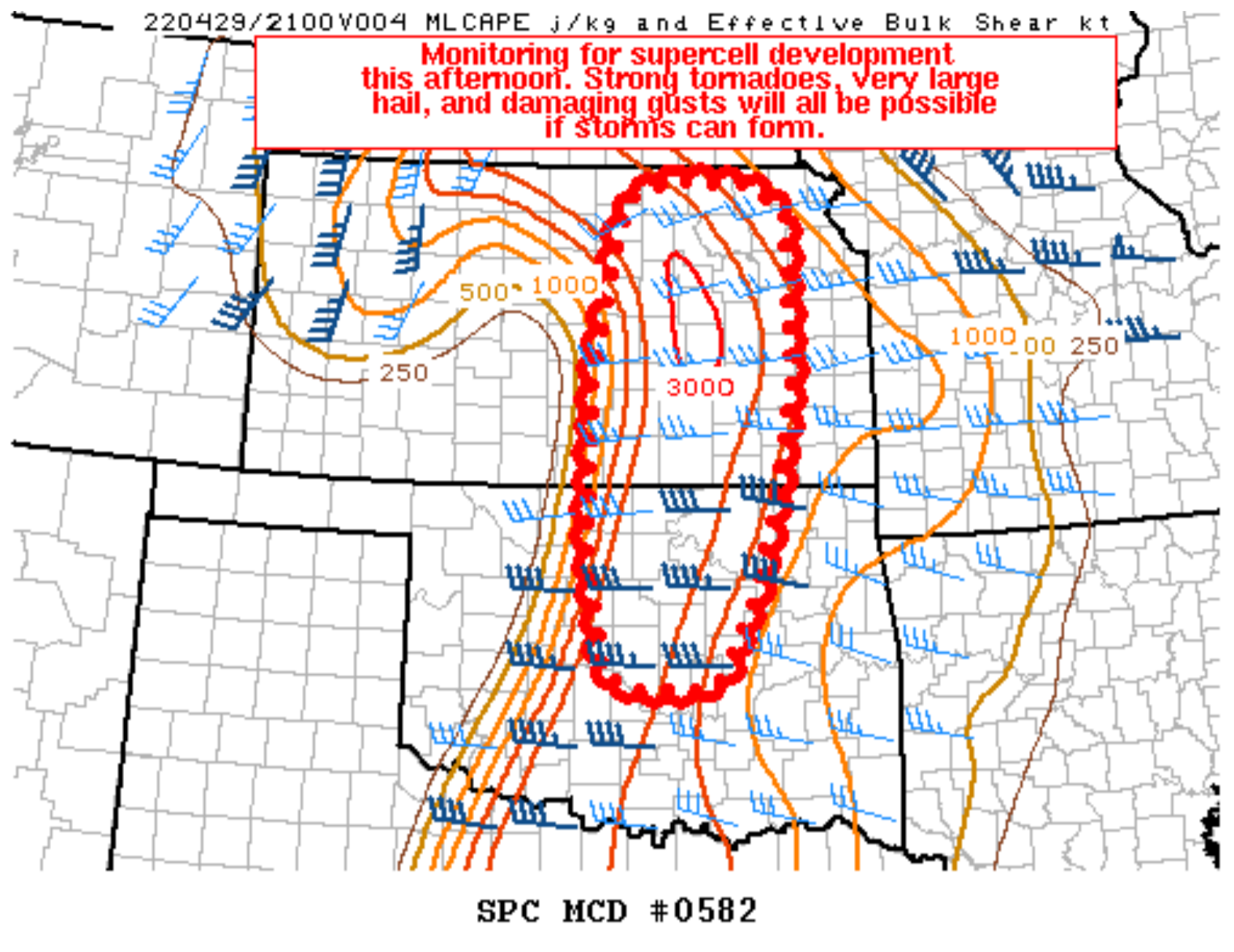
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Mesoscale Discussion 582

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Mesoscale Discussion 0582
 NWS Storm Prediction Center Norman OK
 0223 PM CDT Fri Apr 29 2022

Areas affected...east-central Kansas into north-central Oklahoma

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

Valid 291923Z - 292200Z

Probability of Watch Issuance...80 percent

SUMMARY...Monitoring for supercell development along the dryline this afternoon. Strong tornadoes, very large hail, and damaging gusts will all be possible with this activity. A Tornado Watch will likely be needed for parts of the area.

DISCUSSION...Water vapor imagery indicates a strong midlevel speed maximum approaching KS/OK, where modest midlevel height falls are occurring. As this speed maximum continues overspreading the area, a NNE-SSW oriented dryline will sharpen across east-central KS into north-central OK. The strengthening dryline circulation, combined with south-southwesterly low-level flow oriented largely parallel to the dryline should allow for isolated convective initiation between 20Z-23Z. Surface dewpoints in the middle/upper 60s F beneath very steep midlevel lapse rates will support a strongly unstable airmass (MLCAPE nearing 3000 J/kg), while effective bulk shear increases to around 40 knots. These factors, coupled with strongly veering wind profiles in the boundary-layer (200-300 m2/s2 effective SRH) would certainly favor supercells capable of strong tornadoes, very large hail, and damaging gusts. There is still some uncertainty in the overall coverage and location of the severe threat, though trends will continue to be monitored for Tornado Watch issuance for parts of this area.

..Weinman/Hart.. 04/29/2022

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

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