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City, St

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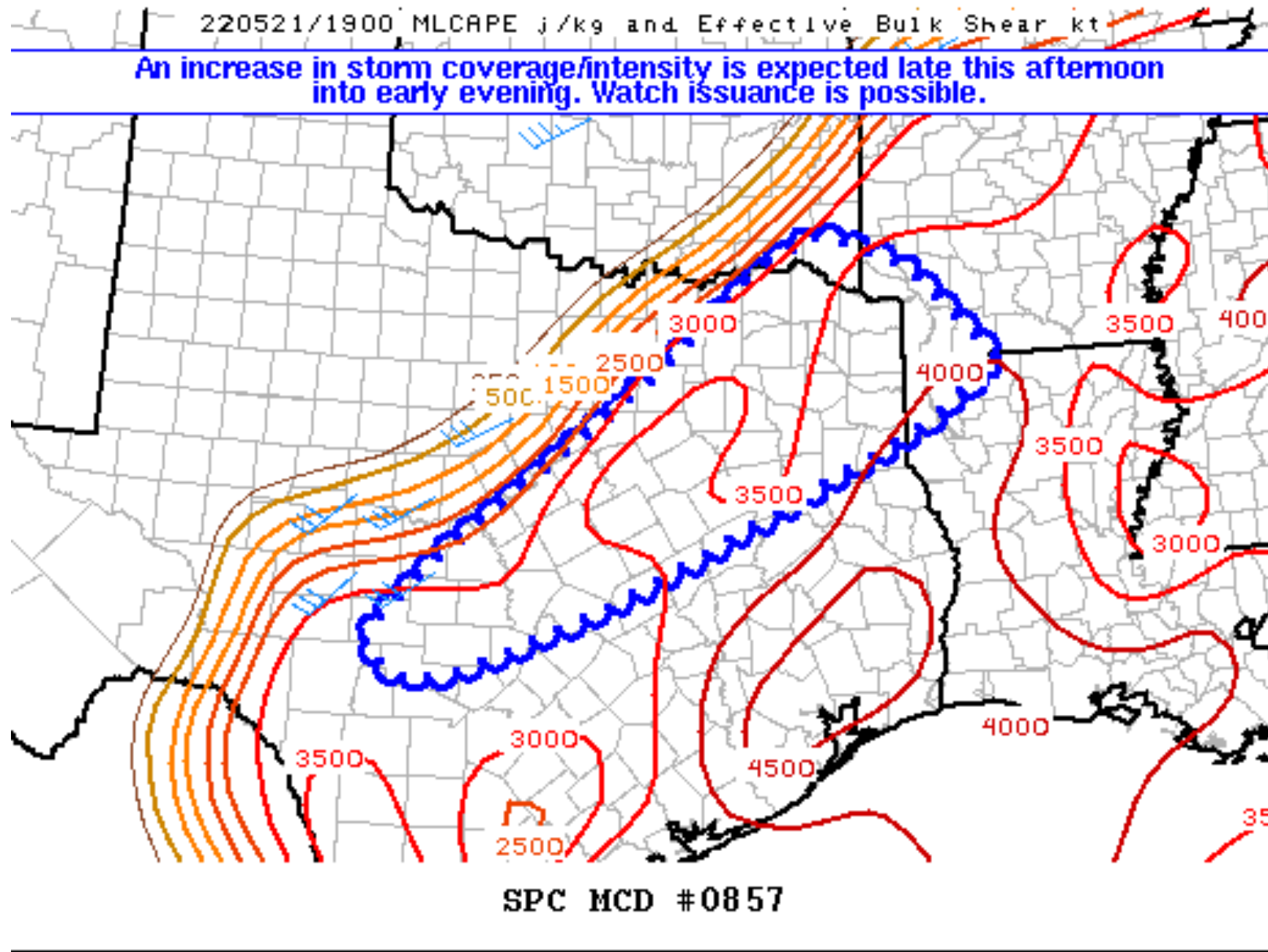
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Mesoscale Discussion 857

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Mesoscale Discussion 0857
 NWS Storm Prediction Center Norman OK
 0306 PM CDT Sat May 21 2022

Areas affected...Central TX into the ArkLaTex region

Concerning...Severe potential...Watch possible

Valid 212006Z - 212200Z

Probability of Watch Issuance...60 percent

SUMMARY...An increase in storm coverage and intensity is expected late this afternoon into early evening. Watch issuance is possible for portions of the area.

DISCUSSION...An isolated strong thunderstorm has recently developed over Mason County, TX, near the intersection of the cold front and a weak surface trough. Gradually deepening cumulus is noted further northeast into north TX, southeast OK, and southwest AR, along and just ahead of the cold front. While large-scale ascent is generally weak across the region, continued heating/destabilization and convergence along the front will support an increase in storm coverage through the remainder of this afternoon into early evening.

This area is generally on the fringe of stronger flow aloft, with effective shear generally less than 30 kt. However, with very strong buoyancy (MLCAPE of 3000-4000 K/kg) and steep midlevel lapse rates in place, intense updrafts will be possible as storms mature, resulting in a threat for large hail. One or more upscale-growing clusters may develop due to storm mergers and outflow consolidation, potentially posing an increasing damaging wind risk with time into the evening. Watch issuance is possible in order to cover these threats.

..Dean/Hart.. 05/21/2022

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

ATTN...WFO...SHV...TSA...HGX...FWD...EWX...SJT...

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 33889395 32939297 32389385 31809510 31309612 30709732
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