



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

City, St  Go



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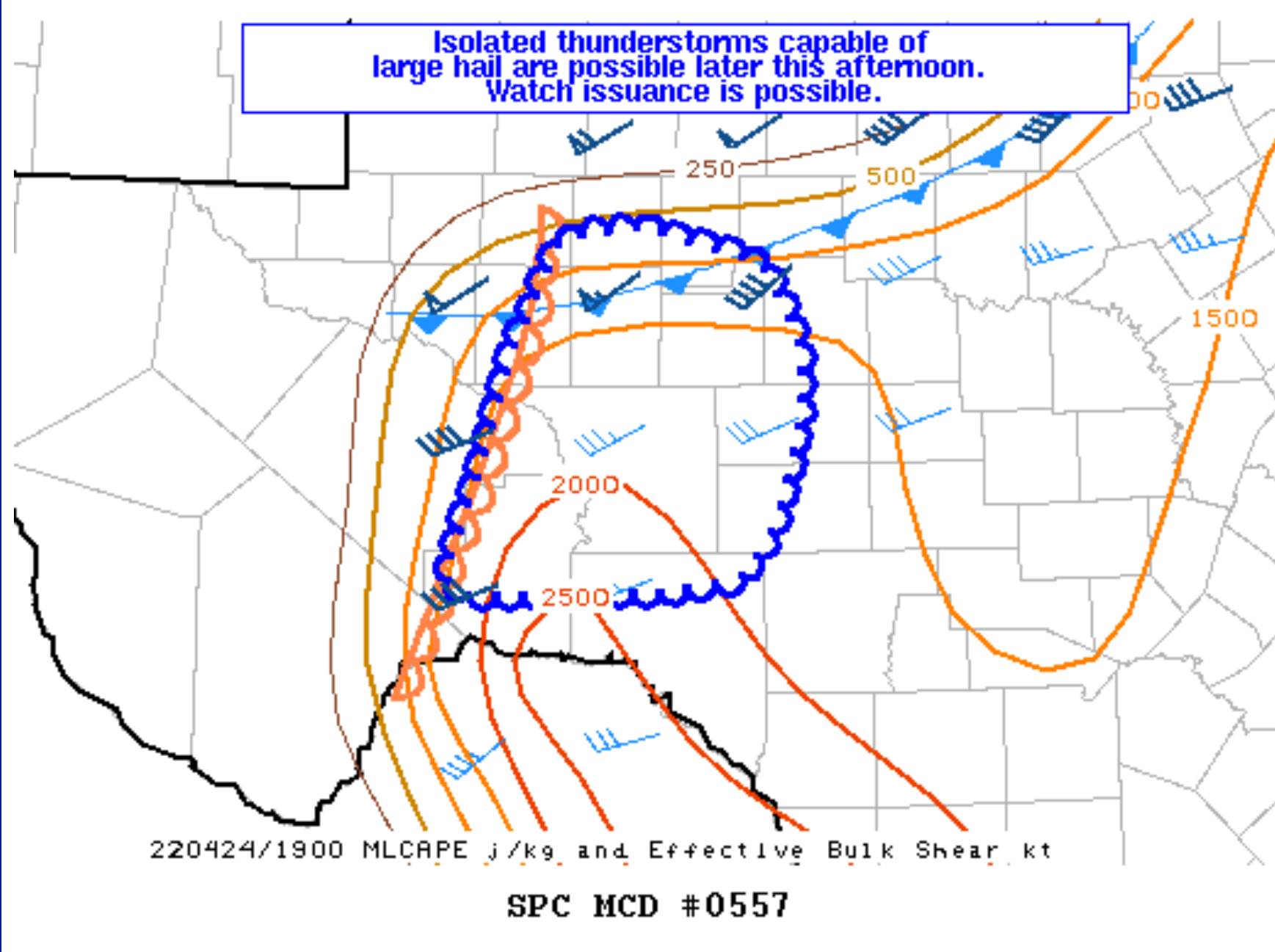
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## Mesoscale Discussion 557

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Mesoscale Discussion 0557  
 NWS Storm Prediction Center Norman OK  
 0248 PM CDT Sun Apr 24 2022

Areas affected...Parts of west TX

Concerning...Severe potential...Watch possible

Valid 241948Z - 242215Z

Probability of Watch Issuance...40 percent

SUMMARY...Isolated thunderstorms capable of large hail will be possible this afternoon into the early evening. Watch issuance is possible by late this afternoon.

DISCUSSION...Towering cumulus has been noted this afternoon across parts of west TX, along a southward-moving cold front and also near a low-level moisture gradient/effective dryline extending southward from the front toward the Big Bend region. One thunderstorm recently developed southeast of Midland, though it has since been undercut by the front. Additional thunderstorm development remains possible near the front/dryline intersection into the late afternoon, though there may be a continued tendency for storms to be undercut in the short term as the front continues moving southward. Late this afternoon, short-term guidance suggests that the western-most portion front may tend to slow down, potentially allowing for a greater chance of storms to become established, with less of a tendency for updrafts to be undercut.

For any storms that can become established later this afternoon, MLCAPE in the 1500-2000 J/kg range and effective shear of 40+ kt will support supercell structures. Large hail (potentially greater than 2" in diameter) is expected to be the primary threat, though locally strong downburst winds and a tornado or two will also be possible.

Storm coverage remains uncertain across this region, but watch issuance is possible if supercell development appears imminent.

..Dean/Guyer.. 04/24/2022

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

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

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