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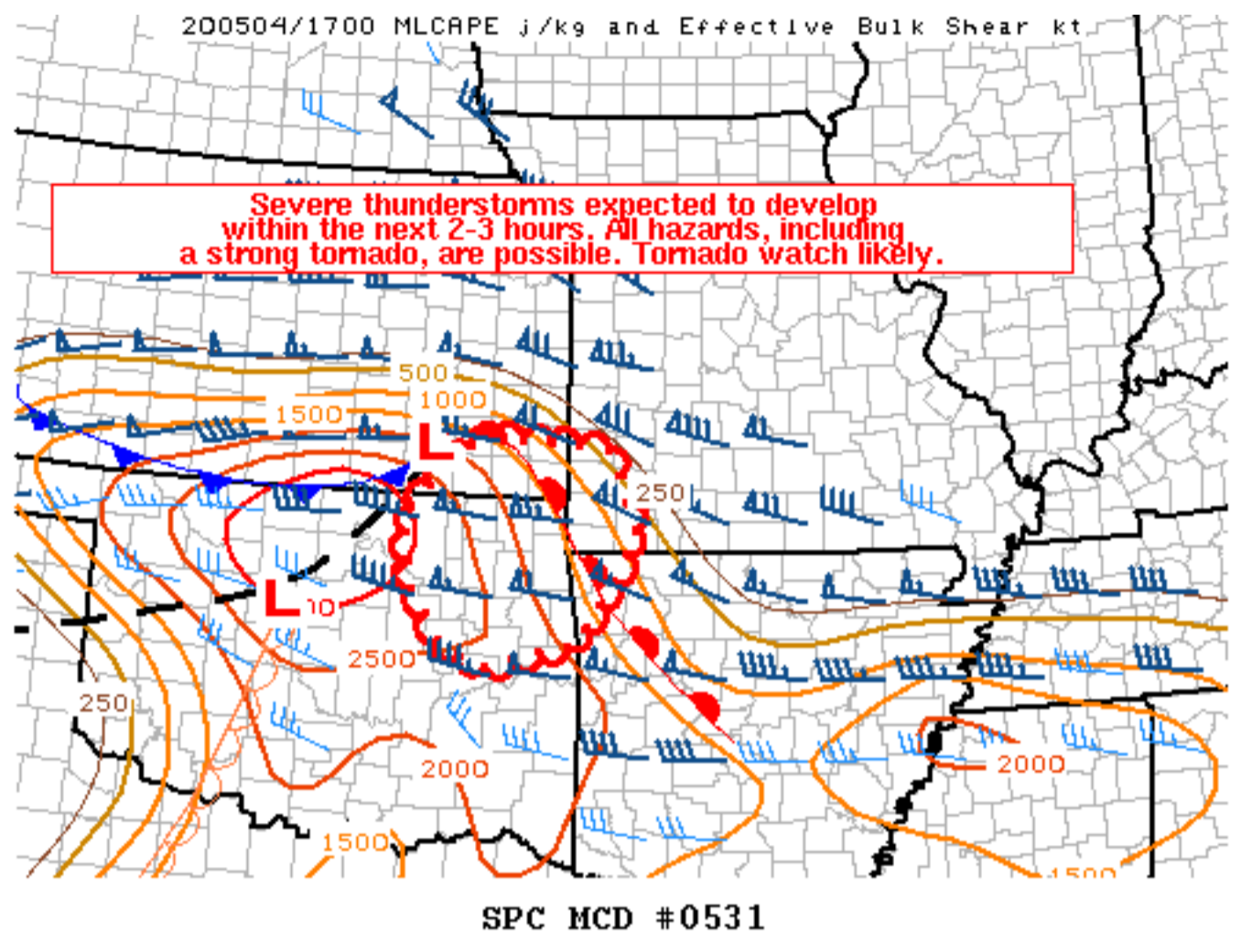
SPC Feedback



Mesoscale Discussion 531

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200504/1700 MLCAPE J/kg and Effective Bulk Shear kt.



SPC MCD #0531

Mesoscale Discussion 0531

NWS Storm Prediction Center Norman OK

0121 PM CDT Mon May 04 2020

Areas affected...Northeast Oklahoma...southeast Kansas...southwest Missouri...northwest Arkansas

Concerning...Severe potential...Watch likely

Valid 041821Z - 042015Z

Probability of Watch Issuance...80 percent

SUMMARY...Initially cellular thunderstorm development along a pre-frontal wind shift is likely within 2-3 hours. These storms will quickly become severe and be capable of all severe hazards. A strong tornado will be possible near the KS/MO/OK/AR border region where low-level hodographs are more favorable. A tornado watch will be needed within the next couple of hours.

DISCUSSION...Ahead of a southward moving cold front, cumulus clouds have begun to become increasingly agitated within a zone of upper 60s F dewpoints in the northeast Oklahoma vicinity. Current observations indicate that the likely zone of initiation will be along the pre-frontal wind shift. With 1500-2500 J/kg MLCAPE and 45-60 kts of effective shear, the initial storms that develop are likely to be supercells capable of large/very large hail, strong/severe wind gusts, and a few tornadoes. An area of enhanced low-level veering, observed in KSGF/KINX VAD data, is present along and near the warm front placed near the OK/AR/MO/KS border region. A strong tornado or two will be possible in this region. One uncertainty is how quickly the cold front will undercut initially cellular activity as it has reached the south-central KS/north-central OK border. With surface observations showing a deepening surface cyclone in central OK, it is possible that the eastern portions of this front in southeastern KS will slow its progression and allow for a longer window of opportunity for tornadic activity. With storm initiation likely within the next 2-3 hours, a WW will be needed within the next couple of hours.

..Wendt/Hart.. 05/04/2020

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

ATTN...WFO...SGF...TSA...ICT...

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