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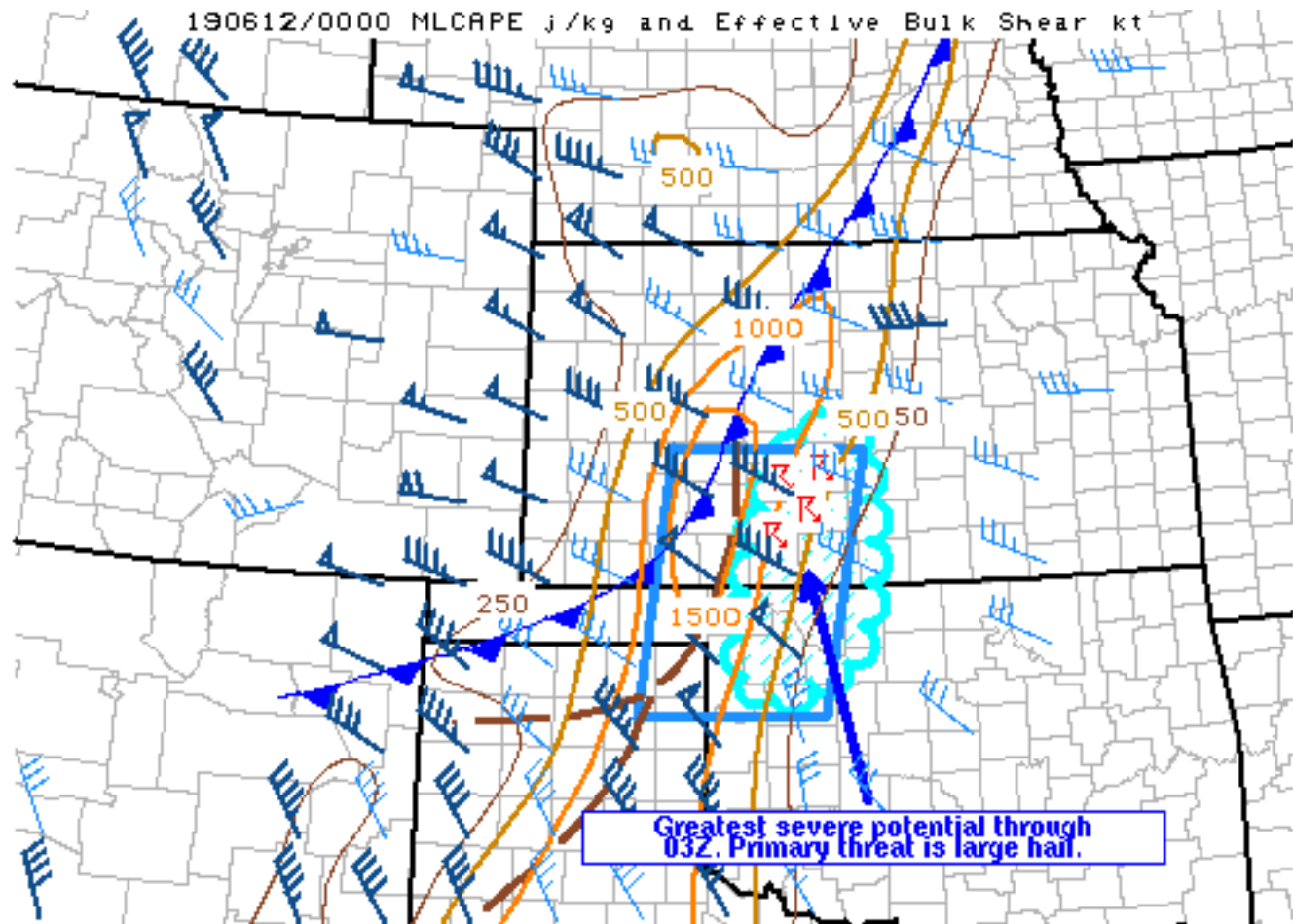
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Mesoscale Discussion 1049

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SPC MCD #1049

Mesoscale Discussion 1049

NWS Storm Prediction Center Norman OK

0820 PM CDT Tue Jun 11 2019

Areas affected...southwest Kansas...northwest Oklahoma and the northeast Texas Panhandle

Concerning...Severe Thunderstorm Watch 352...

Valid 120120Z - 120215Z

The severe weather threat for Severe Thunderstorm Watch 352 continues.

SUMMARY...Cluster of storms capable of mainly large hail is expected to continue south southeast next couple hours, eventually spreading into northwest Oklahoma.

DISCUSSION...Storms that initiated along a cold front across southwest KS have matured with supercell structures indicated on radar. The latest objective analysis shows storms are approaching



the eastern fringe of a very narrow corridor of instability, but storms may continue in a more or less south-southeast direction along the instability gradient through mid evening. The modified 00Z RAOB from Dodge City indicates around 1500 J/kg MLCAPE, steep 850-500 mb lapse rates and near 50 kt 0-6 km shear. This environment will continue to promote supercells with large hail next couple hours. However, surface-based convective inhibition resulting from the onset of nocturnal cooling should contribute to gradual weakening trend, especially by 03Z.

Additional storms may develop later this evening across southern KS into northern OK within an evolving warm advection regime, but these storms will be elevated above a stabilizing surface layer, limiting primary threat to marginally severe hail.

..Dial.. 06/12/2019

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

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Page last modified: June 12, 2019

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