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Mesoscale Discussion 1080

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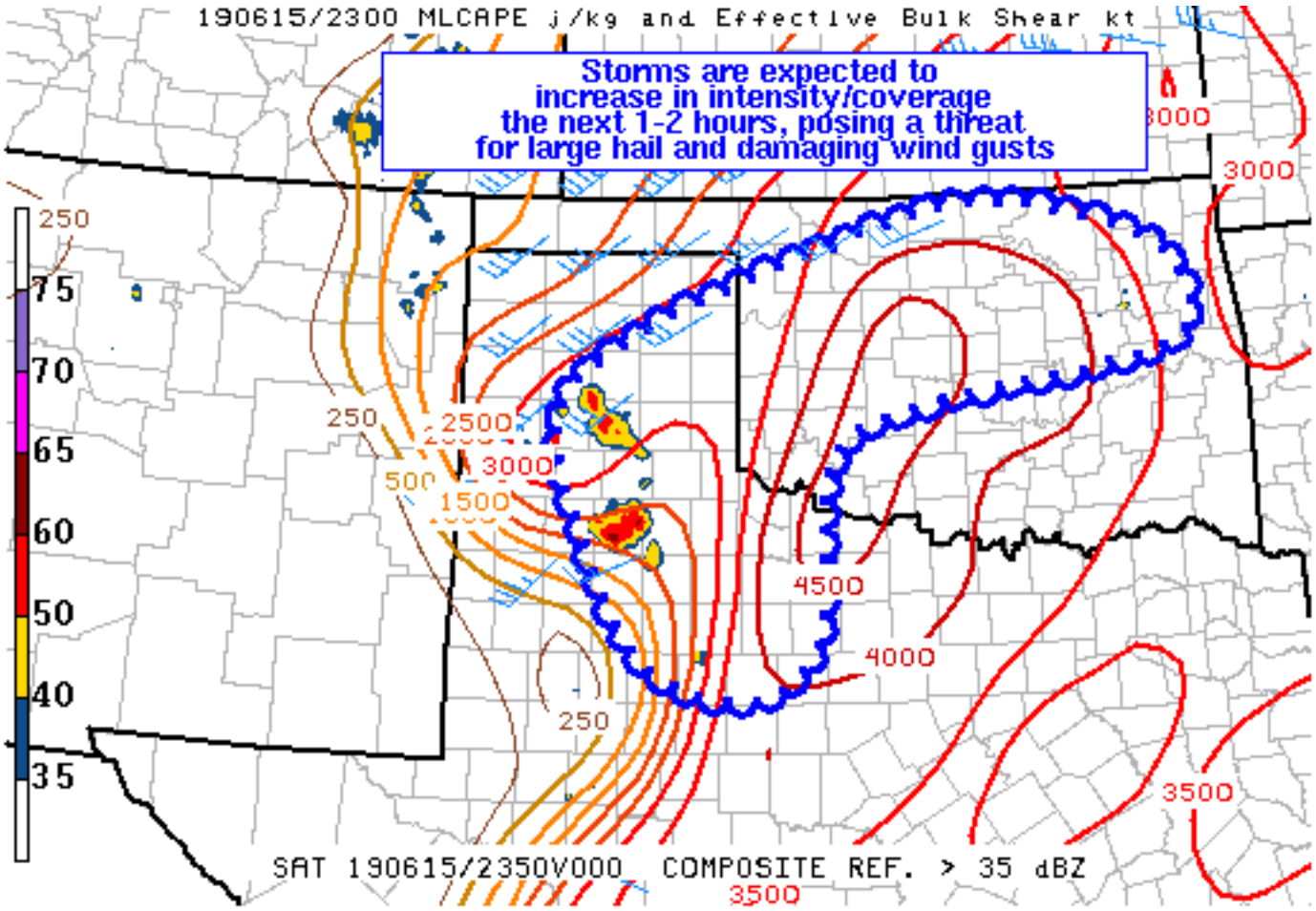

SPC MCD #1080

Mesoscale Discussion 1080
NWS Storm Prediction Center Norman OK
0713 PM CDT Sat Jun 15 2019

Areas affected...Texas Panhandle and Northern Oklahoma

Concerning...Severe Thunderstorm Watch 361...

Valid 160013Z - 160145Z

The severe weather threat for Severe Thunderstorm Watch 361 continues.

SUMMARY...Storms are expected to increase in intensity/coverage the next 1-2 hours, posing a threat for large hail and damaging wind gusts.

DISCUSSION...Regional radar shows a few clusters of storms have developed across the Texas Panhandle, with large hail of 1-2 inches in diameter being reported. As this ongoing activity spreads eastward it will encounter a more favorable thermodynamic

environment across the eastern Texas Panhandle and southwest Oklahoma, where surface dew point temperatures are in the upper 60s to low 70 F and MLCAPE values are approaching 3500-4000 J/kg. Large hail will remain possible with these storms, and with time, a damaging wind threat may emerge if storms can continue to organize and grow upscale.

Farther east, visible satellite trends show an increase in vertical development within the boundary-layer cumulus field across northwest Oklahoma and into north-central/northeast, with weak reflectivity echos showing up on radar. This development appears focused along an inverted trough/weak cold front, where low-level moisture convergence is maximized and surface dew point temperatures are in the low 70s F.

The thermodynamic environment in this region is quite supportive of rigorous thunderstorm development the next 1-2 hours, with MLCAPE of 4000-4500 J/kg little appreciable MLCIN. Steep low and mid-level lapse rates (8-9 C/km) will support a threat for damaging wind gusts along with large hail. Deep-layer shear remains somewhat marginal at this time (20-25 kt effective bulk shear), although forecast RAP soundings indicate perhaps some increase (approaching 30-35 kt) may occur through the evening. With time, storms here may organize into a multicellular cluster, as supported by the latest convection-allowing guidance.

..Karstens.. 06/16/2019

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

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