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Mesoscale Discussion 629

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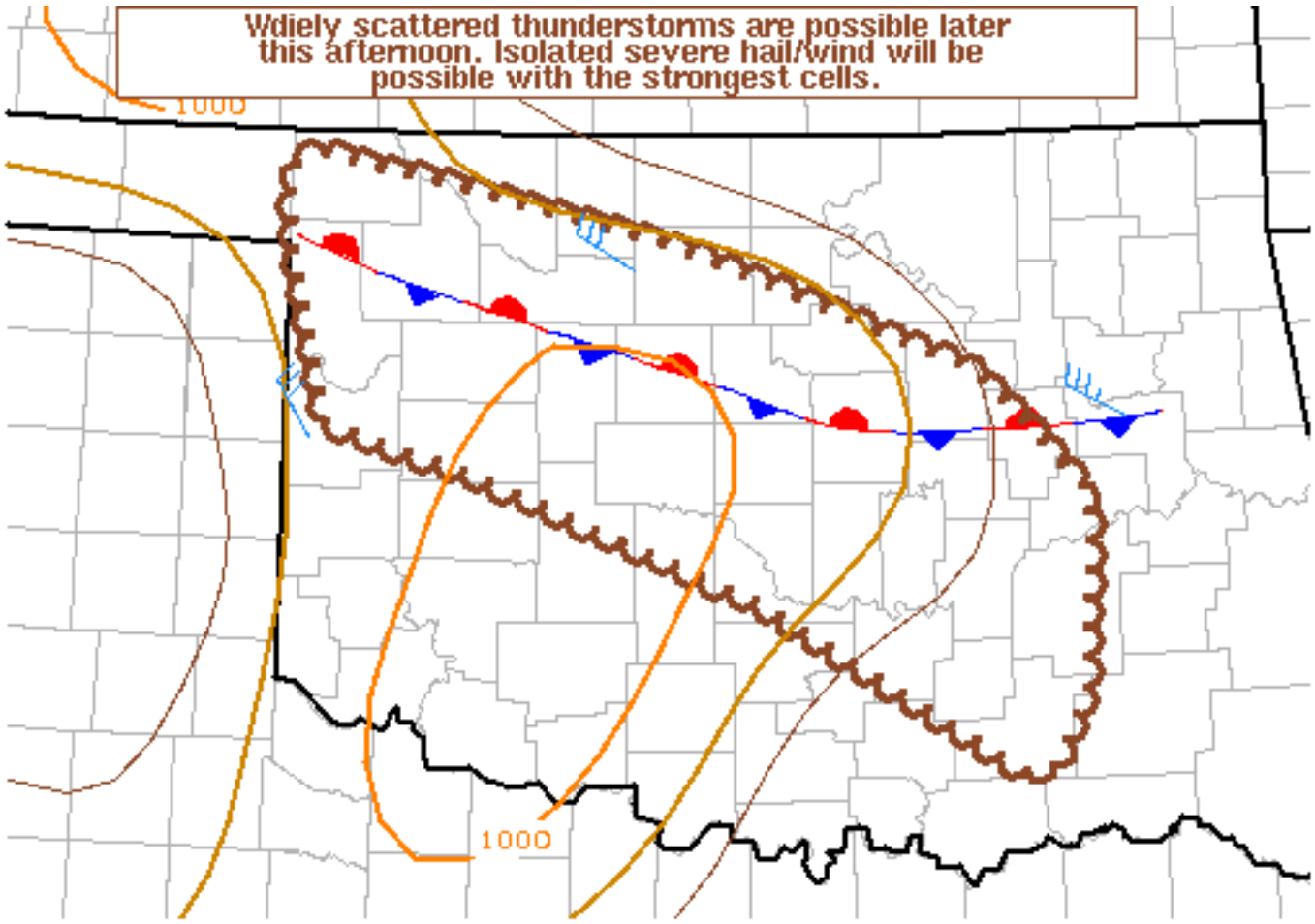

SPC MCD #0629

Mesoscale Discussion 0629
NWS Storm Prediction Center Norman OK
0305 PM CDT Mon May 13 2019

Areas affected...Northwest into Central/Southeast OK

Concerning...Severe potential...Watch unlikely

Valid 132005Z - 132230Z

Probability of Watch Issuance...5 percent

SUMMARY...Widely scattered thunderstorm development is possible this afternoon. Isolated instances of severe hail/wind will be possible with the strongest cells.

DISCUSSION...Thunderstorms have recently developed across northwest OK, with towering cumulus noted further southeast into central OK. This development is occurring in the vicinity of a weak surface boundary running from northwest into eastern OK. While low-level moisture remains rather modest across this region, temperatures

warming to near 80F and dewpoints rising to near 60F have resulted in the development of moderate instability, with MLCAPE of 750-1500 J/kg noted per recent mesoanalyses.

Continued heating and weak convergence along the boundary should allow for additional thunderstorm development later this afternoon. Effective shear will generally remain below 30 kt due to weak low/mid-level flow, but there is some potential for a few multicells to develop where vertical shear is modestly enhanced near the surface boundary. Relatively steep lapse rates and cool temperatures aloft will result in some hail risk with the strongest cells, and locally severe downbursts will be possible with any stronger cells as they begin to collapse. Watch issuance is not anticipated due to the limited coverage and magnitude of the threat.

..Dean/Grams.. 05/13/2019

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

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