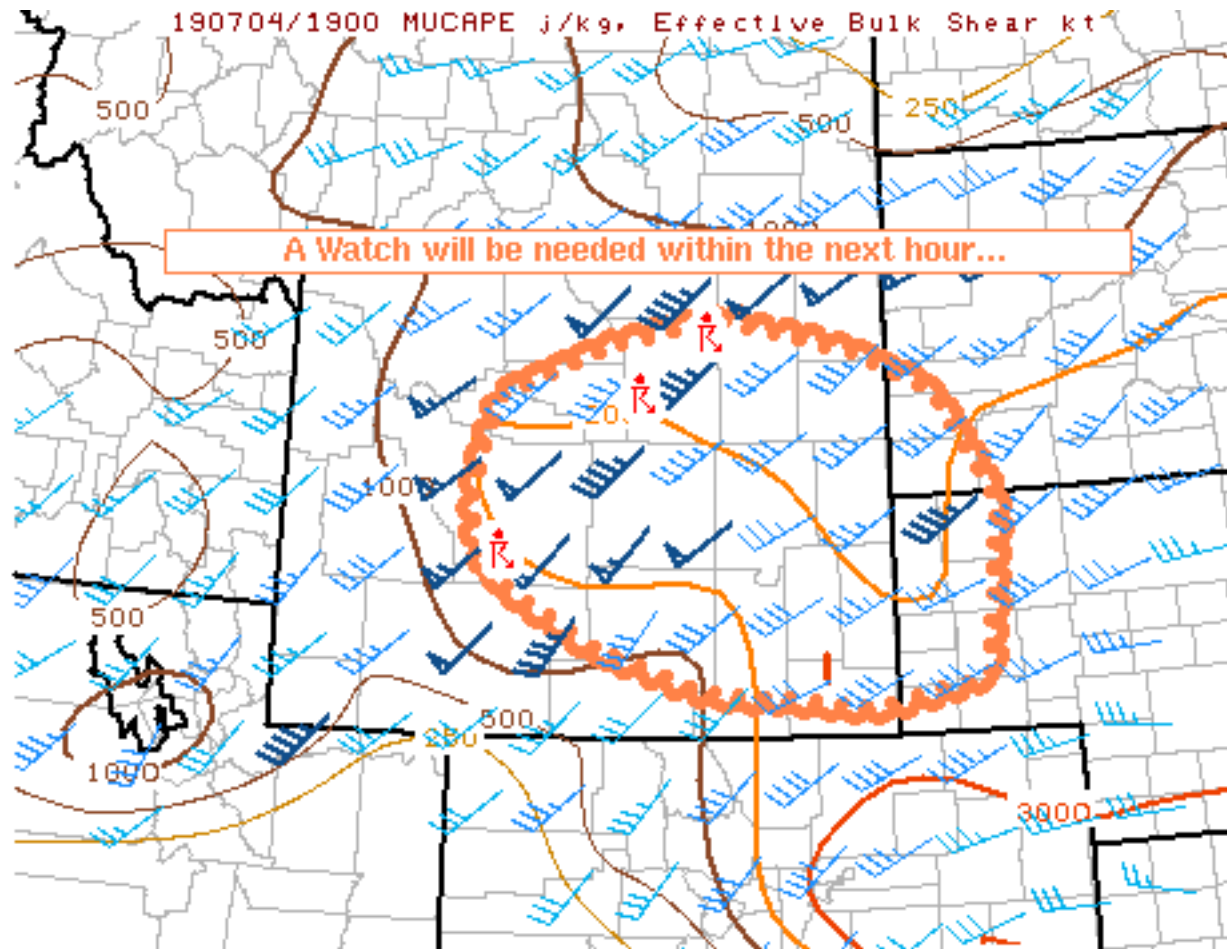


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Mesoscale Discussion 1365

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SPC MCD #1365

Mesoscale Discussion 1365

NWS Storm Prediction Center Norman OK

0256 PM CDT Thu Jul 04 2019

Areas affected...much of Wyoming...far western Nebraska...and far southwestern South Dakota

Concerning...Severe potential...Watch likely

Valid 041956Z - 042200Z

Probability of Watch Issuance...95 percent

SUMMARY...Convective trends are being monitored for a possible Tornado Watch issuance later this afternoon.

DISCUSSION...Latest satellite imagery indicate a deepening cumulus field tied to higher terrain in central/north-central Wyoming, with a few lightning strikes now noted near convective towers. These trends should continue given continued sunshine/insolation and modest low-level advection of boundary layer moisture, with 50s to



low 60s dewpoints in central and eastern Wyoming and vicinity beneath steep mid-level lapse rates contributing to 2000-3000 J/kg MUCAPE. An increase in convection is expected to continue in this environment, with vertical shear favoring organized convection and a few supercells - especially as low-level flow increases toward evening. The environmental parameter space suggests the presence of large (perhaps significant) hail and damaging wind gusts with the storms, with tornado potential maximized north through east of CYS later.

Given these convective trends, a Tornado Watch is being considered, and may be coordinated with affected local forecast offices between 20-21Z.

..Cook/Grams.. 07/04/2019

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

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