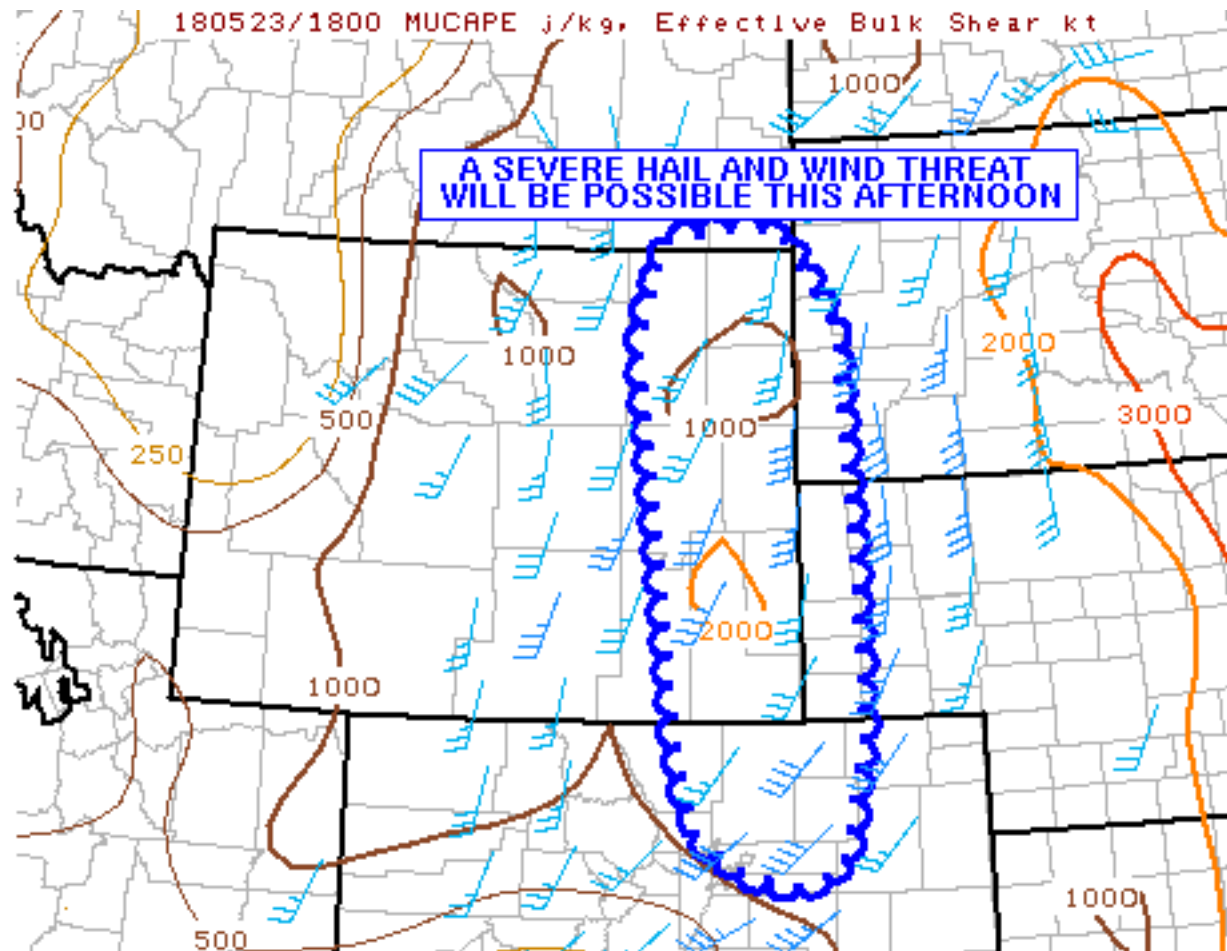


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Mesoscale Discussion 499

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SPC MCD #0499

Mesoscale Discussion 0499

NWS Storm Prediction Center Norman OK

0200 PM CDT Wed May 23 2018

Areas affected...Eastern Wyoming...portions of northeast Colorado...extreme western Nebraska and South Dakota

Concerning...Severe potential...Watch possible

Valid 231900Z - 232100Z

Probability of Watch Issuance...60 percent

SUMMARY...A threat for severe hail and wind will exist this afternoon. A WW will be possible in the next hour or two.

DISCUSSION...At 1845Z visible satellite imagery showed towering cumulus forming over the higher terrain of eastern Wyoming southward into northeast Colorado. Ahead of this development, low- to mid-50s dewpoints were generally in place along with strong surface heating taking place. With time, continued destabilization will take place



leading to SBCAPE values at or above 2000 J/kg. With steep mid-level lapse rates in place in conjunction with 30-40 kts of effective deep-layer shear, per RAP analysis, robust updrafts will be possible posing a severe hail and wind risk. With time, storms are expected to grow upscale into a line where a severe wind threat will be the primary concern. A WW issuance in the next hour or two is possible.

..Wendt/Hart.. 05/23/2018

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

ATTN...WFO...UNR...BOU...CYS...BYZ...

LAT...LON 44090588 44790570 45090554 45180487 45160418 44960405
44330355 42950347 41810339 40810338 39720364 39610414
39760481 40090526 41090548 43070569 44090588

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