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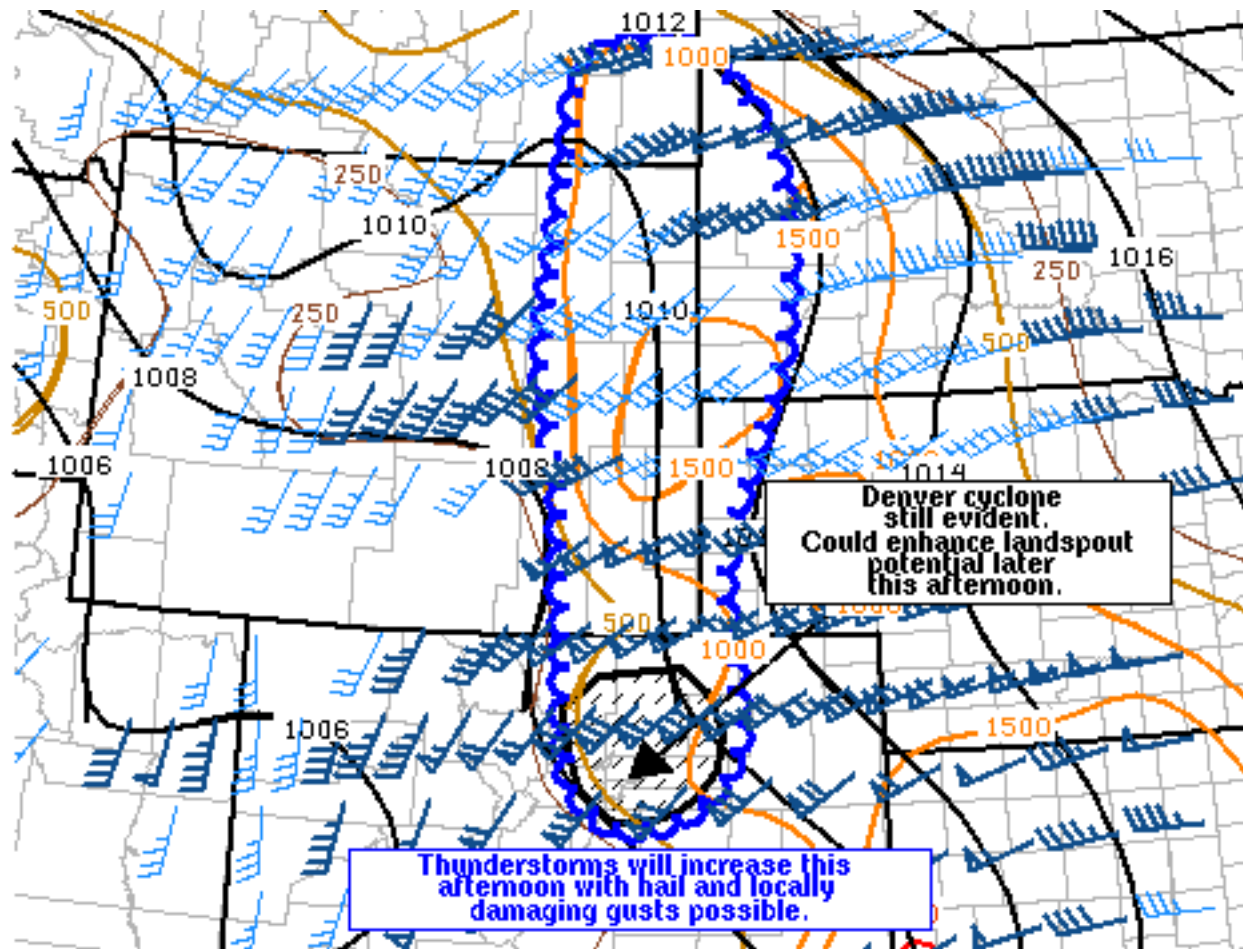
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## Mesoscale Discussion 813

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SPC MCD #0813

Mesoscale Discussion 0813

NWS Storm Prediction Center Norman OK

0307 PM CDT Sun May 26 2019

Areas affected...portions of north-central CO...eastern WY...far western NE...western SD and southeast MT

Concerning...Severe potential...Watch possible

Valid 262007Z - 262200Z

Probability of Watch Issuance...40 percent

SUMMARY...Isolated strong to severe storms are expected by late afternoon. The strongest storms could produce large hail and locally damaging wind gusts. A watch may be needed later this afternoon.

DISCUSSION...Strong surface heating with temperature rises of around 4-8 degrees over the last 3 hours will continue this afternoon. Isolated thunderstorms and showers have begun to develop over higher terrain of southeast WY into north-central CO in southeasterly



upslope flow along a surface trough. Early day cloudiness is persisting across parts of western NE and eastern CO, and has probably resulted in somewhat slower erosion of midlevel capping than suggested by some guidance. Modifying the 18z DNR RAOB for current surface obs across the region suggest some areas are nearly uncapped as of 19z. As additional heating and modest increase in surface dewpoints occurs toward late afternoon, deep layer forcing should increase with northward extent and additional convection is expected to develop northward into southeast MT/western SD along the surface trough. Strong vertical shear will support rotating updrafts in the presence of steep midlevel lapse rates will support large hail in strongest storms. While low level flow below 700 mb is rather weak, high-based storms could produce some strong outflow wind gusts.

Some evidence of the Denver Cyclone was still apparent in 19z surface analysis. This could increase landspout and/or weak tornado potential if a storm takes advantage of enhanced low level shear in this area.

..Leitman/Thompson.. 05/26/2019

...Please see [www.spc.noaa.gov](http://www.spc.noaa.gov) for graphic product...

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