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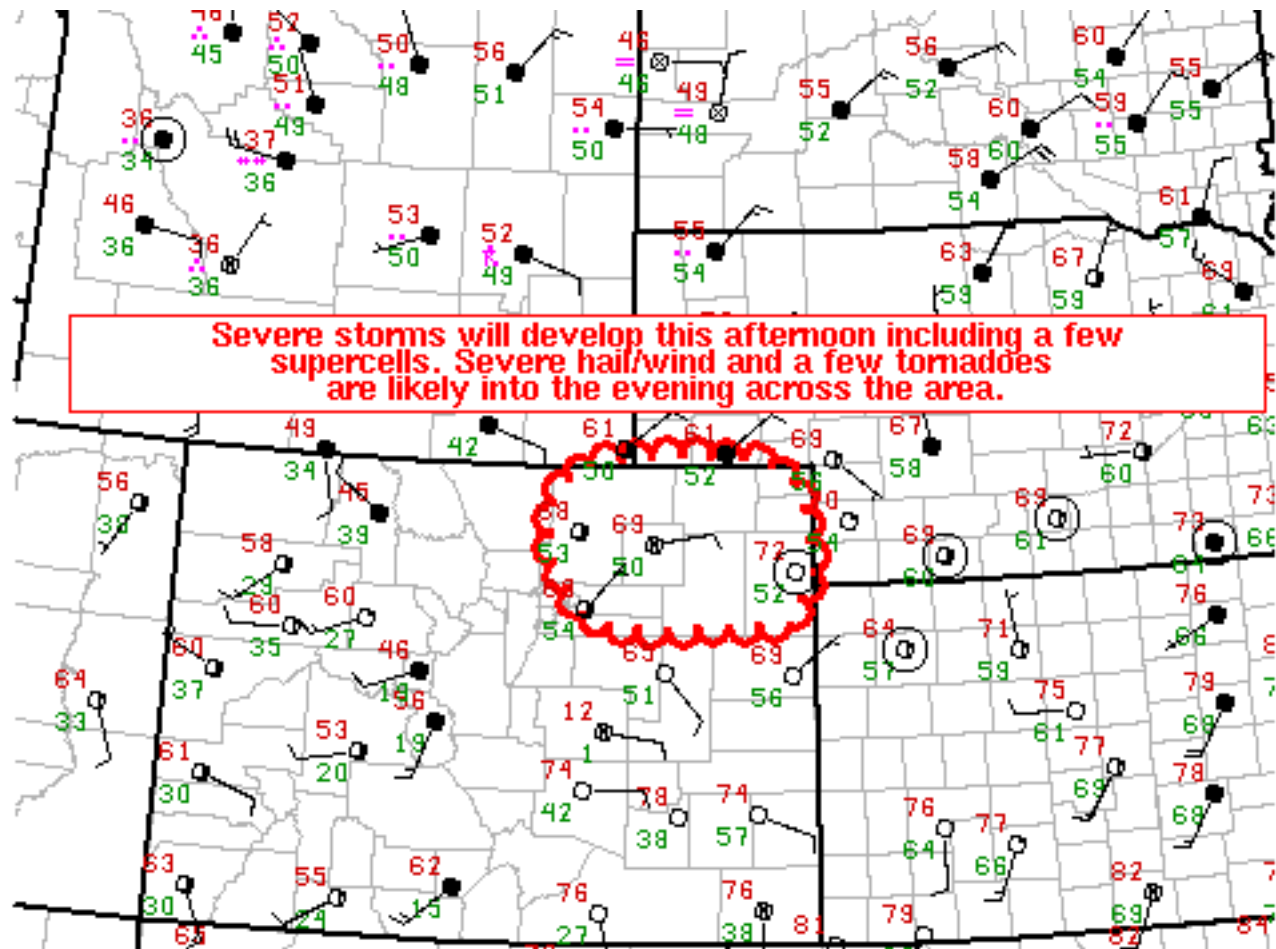
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Mesoscale Discussion 833

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SPC MCD #0833

Mesoscale Discussion 0833

NWS Storm Prediction Center Norman OK

0136 PM CDT Mon May 27 2019

Areas affected...northeast Colorado...far southeast Wyoming...far western Nebraska

Concerning...Severe potential...Tornado Watch likely

Valid 271836Z - 272100Z

Probability of Watch Issuance...80 percent

SUMMARY...Severe storms will develop this afternoon and across portions of northeast Colorado, southeast Wyoming, and western Nebraska. A few supercells are expected to develop with severe hail/wind and a few tornadoes are likely into the evening across the area.

DISCUSSION...The Cu field is becoming increasingly agitated along the Front Range/vicinity, and a few storms have developed along the



CO/WY border west/south of Cheyenne and another one just east of Denver. The Denver Cyclone and surface boundaries will locally enhance surface convergence with terrain circulations and forcing for ascent spreading over the area as an upper-level trough slides over the Intermountain West. Falling heights, steepening lapse rates, and a strengthening surface cyclone associated with the approaching upper-level trough will create a conducive environment for severe storms this afternoon/evening. Forecast soundings and current mesoanalysis show long hodographs with strong deep layer shear (effective bulk shear of 45-65 knots) that will be conducive for supercell development. Increasing hodograph curvature and low-level SRH also indicates the potential for tornadic supercells, especially for any deviant right moving cells.

Very large hail, damaging wind gusts, and a few tornadoes are likely into this evening across the area. Storms that develop in northeast Colorado are likely to move to the northeast with the greatest tornado threat in northeast Colorado and bordering counties of southeast Wyoming/western Nebraska.

..Nauslar/Thompson.. 05/27/2019

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

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