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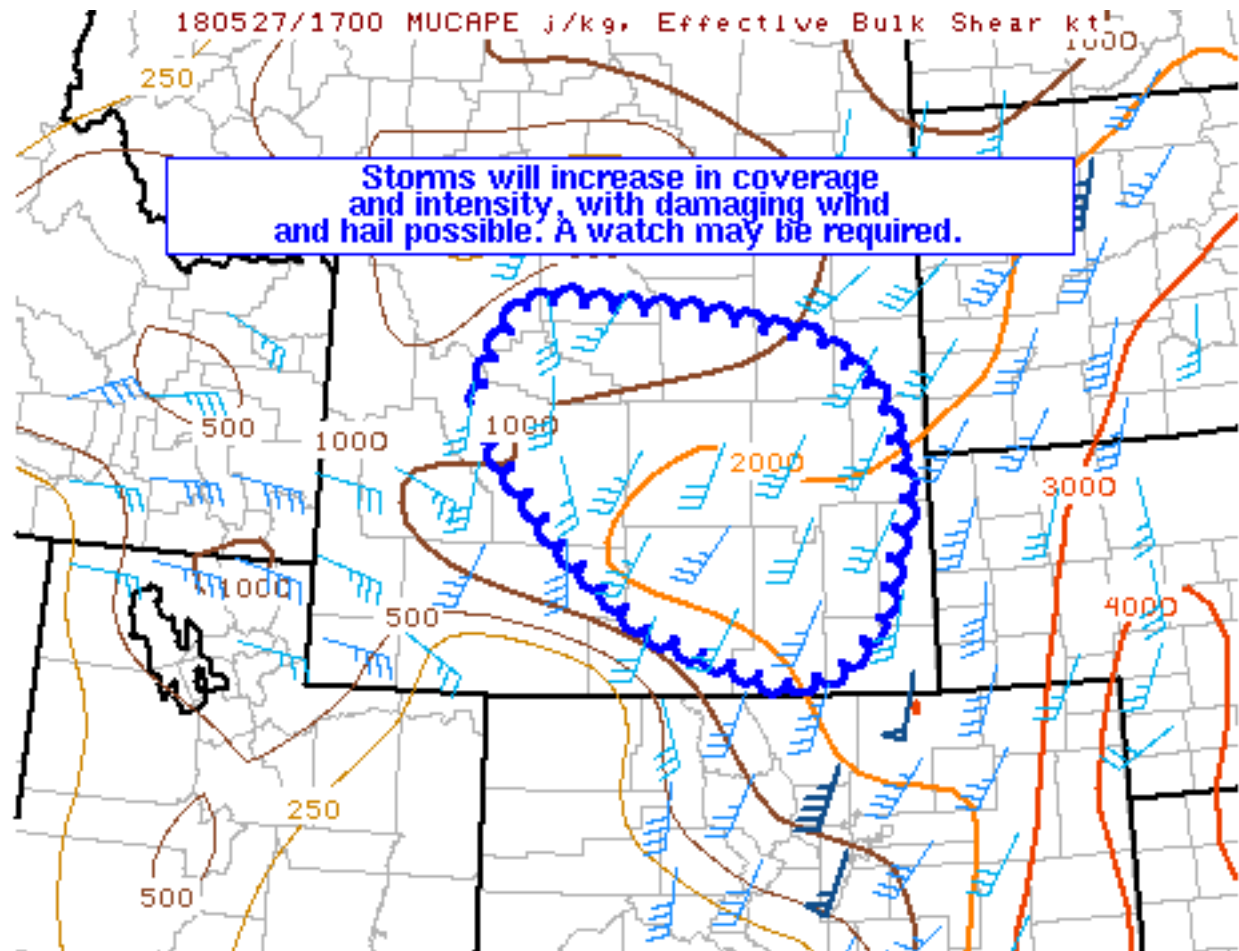
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Mesoscale Discussion 539

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SPC MCD #0539

Mesoscale Discussion 0539

NWS Storm Prediction Center Norman OK

1236 PM CDT Sun May 27 2018

Areas affected...Much of central into eastern Wyoming

Concerning...Severe potential...Watch likely

Valid 271736Z - 272000Z

Probability of Watch Issuance...80 percent

SUMMARY...Storms should increase in coverage and intensity through the afternoon, with damaging wind and/or hail possible.

DISCUSSION...A moist air mass has spread into central WY due to east and northeast surface winds, resulting in an unstable air mass. Heating will persist as well, with MUCAPE in excess of 2000 J/kg into eastern WY where moisture is most substantial. Meanwhile, lapse rates are steep through a deep layer courtesy of the upper trough. Although mid and upper flow is not strong, these southerlies atop

low-level northeasterlies is elongating hodographs and will be supportive of organized storms over the entire region. Storms are already forming near the Wind River mountains due to upslope flow, and these storms will gradually expand southeastward toward a developing CU field near the south central mountains of WY. Damaging winds will be possible given the expected elongated/somewhat linear storm mode, but embedded cells, and/or any isolated cells that may form will be capable of large hail given the cold air aloft.

..Jewell/Hart.. 05/27/2018

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

ATTN...WFO...UNR...CYS...RIW...

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