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Mesoscale Discussion 1224

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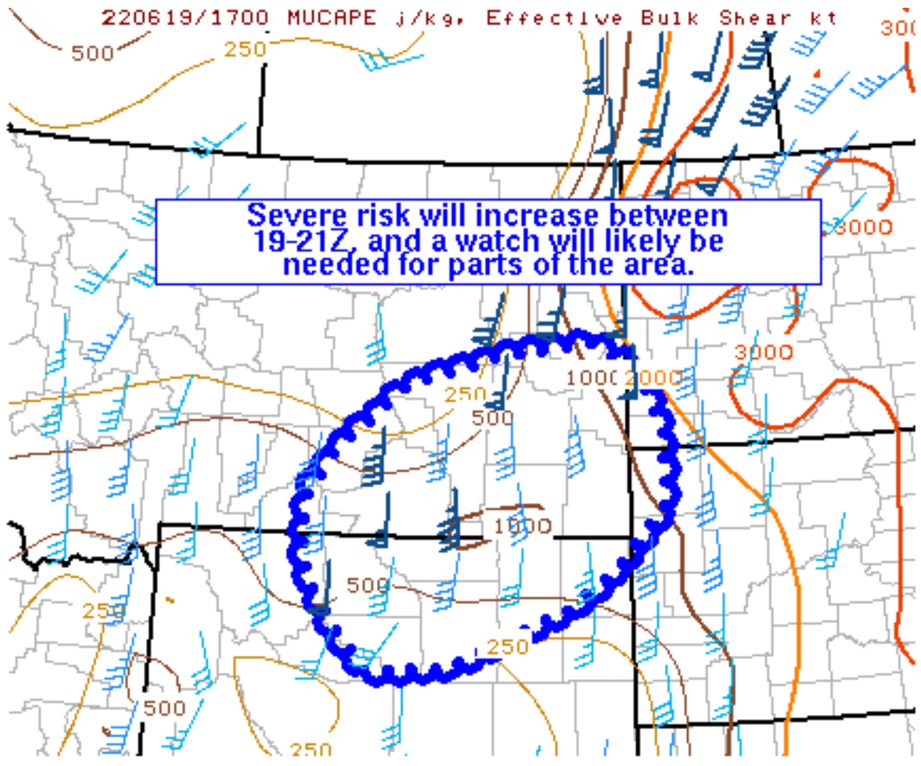

SPC MCD #1224

Mesoscale Discussion 1224
NWS Storm Prediction Center Norman OK
0107 PM CDT Sun Jun 19 2022

Areas affected...Portions of northern WY...southeast MT...far southwest ND...and far northwest SD

Concerning...Severe potential...Severe Thunderstorm Watch likely

Valid 191807Z - 192030Z

Probability of Watch Issuance...80 percent

SUMMARY...The severe-thunderstorm risk will increase across portions of northern WY into southeast MT between 19-21Z. The primary concerns will be large to very large hail and severe gusts. A watch will likely be needed for parts of the area.

DISCUSSION...Surface observations show a modest strengthening of upslope flow over parts of northern WY, where filtered diurnal diurnal heating amid lower/middle 50s dewpoints is resulting in an expanding/generally shallow boundary-layer cumulus field. As height falls accompanying a midlevel speed maximum continue to overspread northern WY into southeast MT, convection should develop over the Big Horns and spread northeastward into the late afternoon hours.

Steep midlevel lapse rates and long/straight hodographs characterized by 50-60 kt of effective shear will support organized convective structures including supercells capable of large to very large hail. With time, convection should evolve northeastward into richer boundary-layer moisture, and severe winds along with the potential for a couple tornadoes will increase with any bowing segments or longer-lived supercells. A watch will likely be needed for parts of the area this afternoon.

..Weinman/Grams.. 06/19/2022

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

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