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Mesoscale Discussion 1093

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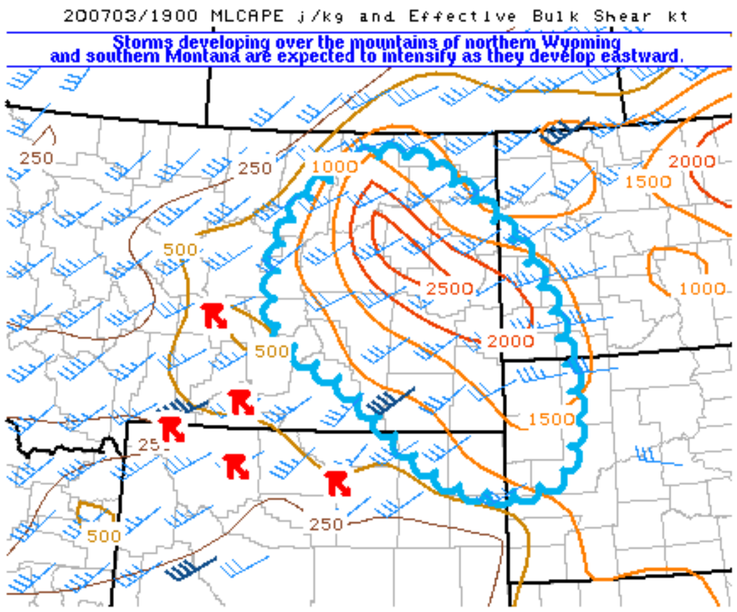

SPC MCD #1093

Mesoscale Discussion 1093
NWS Storm Prediction Center Norman OK
0347 PM CDT Fri Jul 03 2020

Areas affected...eastern Montana...extreme northeast Wyoming...northwest South Dakota and southwest North Dakota

Concerning...Severe potential...Watch possible

Valid 032047Z - 032245Z

Probability of Watch Issuance...40 percent

SUMMARY...Thunderstorms developing over the mountains of northern Wyoming and southern Montana are expected to undergo a gradual intensification as they move east through the northern High Plains later this afternoon into the evening. Damaging wind and large hail will be the primary threats with the stronger storms. A severe thunderstorm watch will probably be needed at some point, but timing remains somewhat uncertain, so trends will continue to be monitored.

DISCUSSION...Scattered thunderstorms continue developing over the mountains of northern WY and south central MT. However, based on current temperatures and RAP objective analysis, the boundary layer remains capped to surface-based thunderstorms, suggesting it may be difficult to sustain deep, organized convection east of the higher terrain in the near term. Latest objective analysis shows MLCAPE from 2000-2500 J/kg across eastern MT, and as temperatures rise to near 90 F, convective inhibition should weaken sufficiently for storms to survive and organize east of the mountains. This region resides within belt of 30-40 kt southwesterly winds aloft that exist above weak southeasterly post-frontal low-level flow. Once storms become established, a few supercells appear likely, but eventually some upscale growth should occur later during the evening.

..Dial/Guyer.. 07/03/2020

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

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