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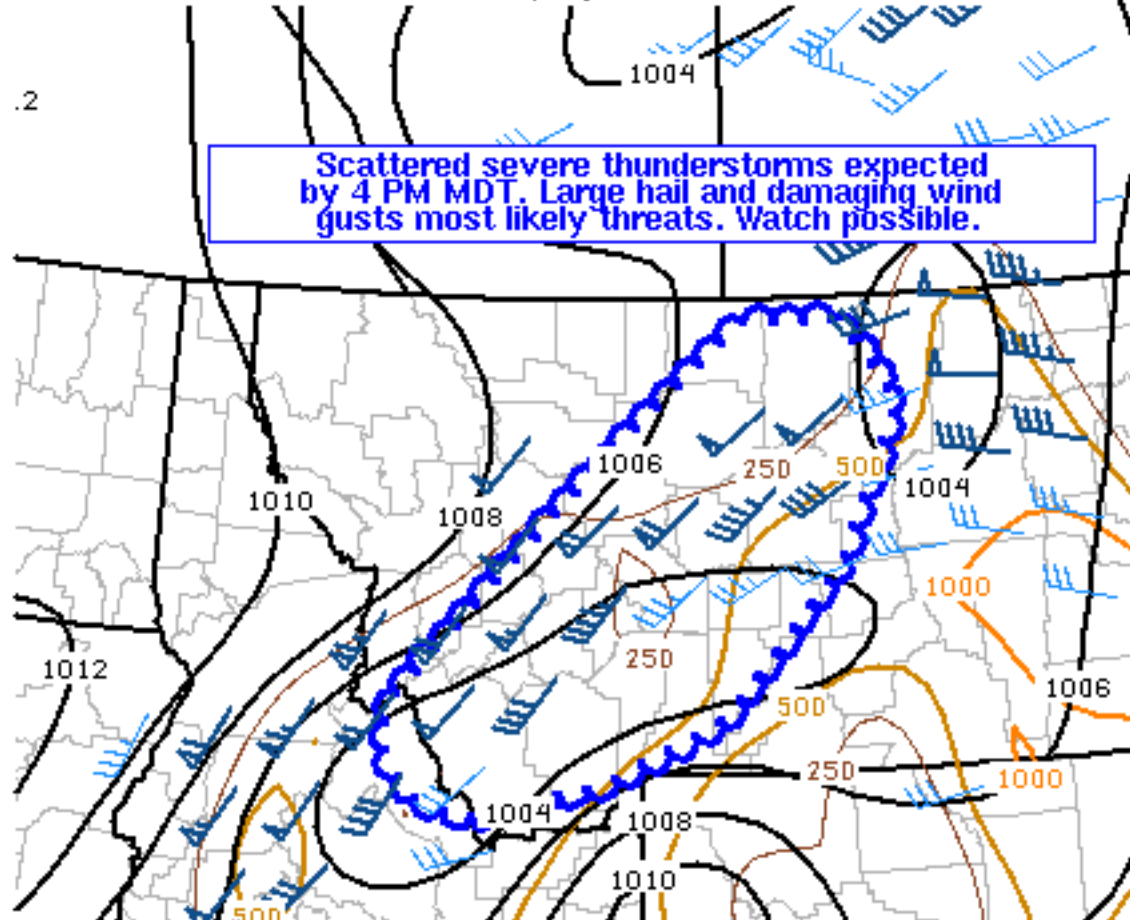
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Mesoscale Discussion 1008

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190606/1900 MSLP, MLCAPE J/kg and Effective Bulk Shear kt



SPC MCD #1008

Mesoscale Discussion 1008

NWS Storm Prediction Center Norman OK

0254 PM CDT Thu Jun 06 2019

Areas affected...Portions of southwestern and central Montana

Concerning...Severe potential...Watch possible

Valid 061954Z - 062200Z

Probability of Watch Issuance...40 percent

SUMMARY...Storm initiation is likely in the next hour or two. Scattered severe thunderstorms will be possible with an attendant risk of large hail and damaging wind gusts. Storms may grow upscale into an MCS and pose more of damaging wind gusts threat later this afternoon. A WW is possible in the next two hours.

DISCUSSION...Visible satellite shows increasing cumulus development across the Bitterroot and vicinity with a couple upstream mid-level waves approaching southwestern Montana on water vapor imagery. While



moisture will be limited (dewpoints in the mid 40s to perhaps near 50 F), strong surface heating has pushed temperatures into the mid to upper 80s F across portions of southwestern and central Montana. A modestly buoyant (MLCAPE of 500-1000 J/kg, greater values with eastward extent) airmass and steep mid-level lapse rates of 7.5-8.5 C/km will support storms capable large hail. Storms should initially be discrete with 40-55 kts of effective deep-layer shear. Inverted V low-level thermodynamic profiles will also support the threat for damaging wind gusts. Given how efficient outflow production will likely be as well as a tendency to have several splitting storms interact (long, generally straight hodographs), upscale growth into an MCS later this afternoon will be possible. Should an MCS develop, strong deep-layer flow parallel to storm motion would support a wider threat of damaging wind gusts. A WW may be needed in the next two hours.

..Wendt/Hart.. 06/06/2019

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

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