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Mesoscale Discussion 663

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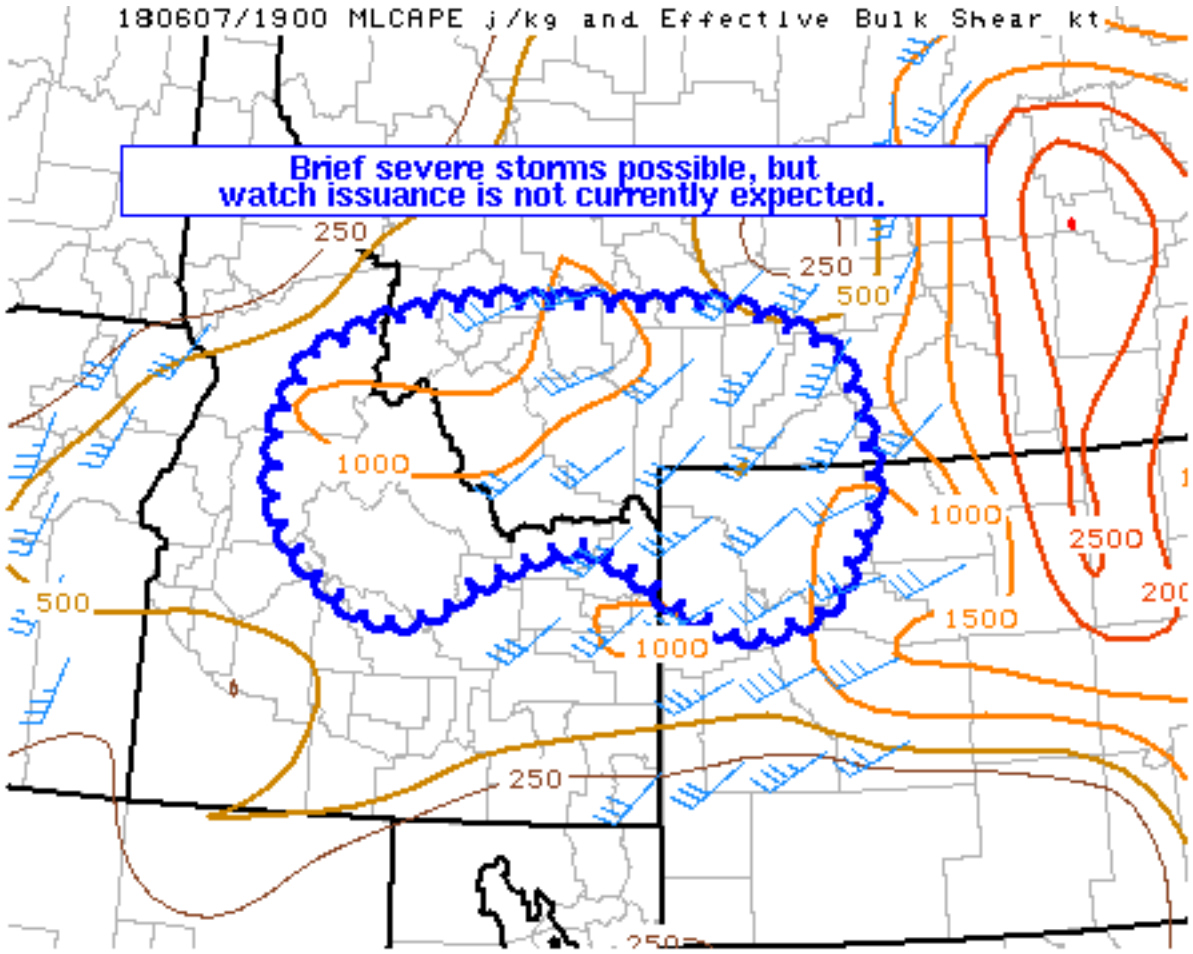

SPC MCD #0663

Mesoscale Discussion 0663
NWS Storm Prediction Center Norman OK
0220 PM CDT Thu Jun 07 2018

Areas affected...Parts of the northern Rockies

Concerning...Severe potential...Watch unlikely

Valid 071920Z - 072045Z

Probability of Watch Issuance...20 percent

SUMMARY...A few brief severe storms are possible this afternoon, but watch issuance appears unlikely.

DISCUSSION...Convection has blossomed across much of the northern Rockies this afternoon, with a few deeper cores noted in MRMS CAPPI products. Ongoing insolation and adequate boundary-layer moisture (e.g., surface dew points in the 40s/lower 50s) are favorable for a few more vigorous updrafts within an environment characterized by MLCAPE near 500-1000 J/kg. Regional VWP and mesoanalysis data

suggest mid-level flow and related deep-layer shear remain modest -- perhaps around 25-30 kt of effective shear at most. Additionally, large-scale ascent appears nebulous, given slight height rises behind an impulse lifting northeast across Montana. In turn, most convection may be strongly rooted to terrain circulations, resulting in some weakening as they move towards lower elevations. Therefore, the severe threat appears too limited for watch issuance at this time, but a few stronger cells may be capable of brief gusty winds and marginally severe hail.

..Picca/Weiss.. 06/07/2018

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

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