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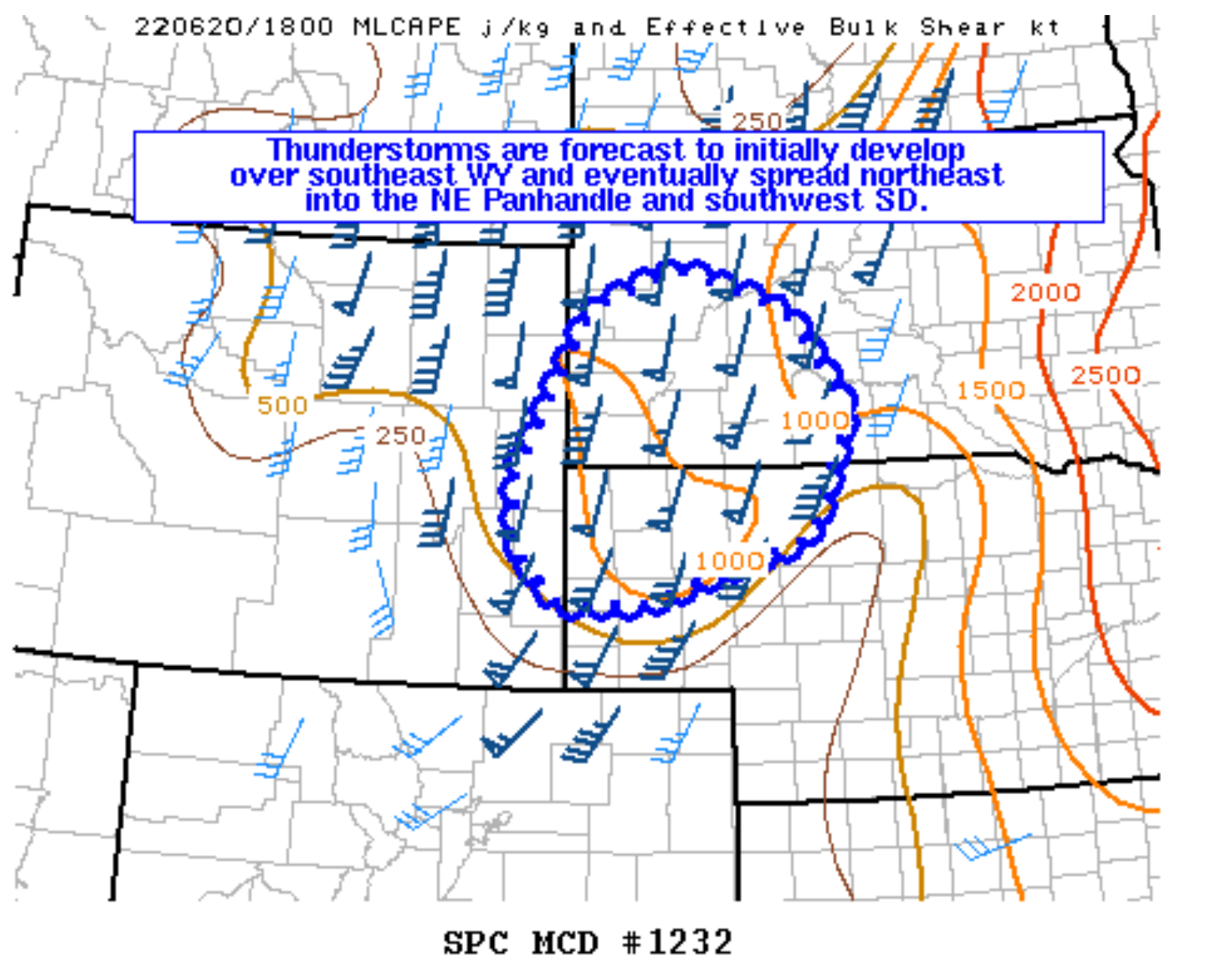
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Mesoscale Discussion 1232

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Mesoscale Discussion 1232
 NWS Storm Prediction Center Norman OK
 0115 PM CDT Mon Jun 20 2022

Areas affected...far eastern WY...northern NE Panhandle...southwest SD

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

Valid 201815Z - 202015Z

Probability of Watch Issuance...80 percent

SUMMARY...Thunderstorms are forecast to initially develop/intensify over southeast WY and eventually spread northeast into the NE Panhandle and southwest SD. Isolated large hail and severe gusts are possible with the stronger storms. A severe thunderstorm watch is likely over south-central SD extending west/southwest into the northern part of the NE Panhandle.

DISCUSSION...Visible-satellite imagery shows a couple of thunderstorms developing north of Cheyenne, WY with a stratus deck south of the Badlands straddling the NE/SD border. Surface analysis indicates a surface front extends from northeast CO northeastward into Cherry Co., NE and into northeast SD. To the west of the boundary, strong heating and relatively moist low levels (surface dewpoints 60-65 deg F) are contributing to a destabilizing airmass to the northeast of the WY thunderstorm activity.

As the zone of strongest mid-level forcing for ascent pivots northeastward across WY this afternoon in conjunction with a shortwave trough, thunderstorms will preferentially develop initially over WY. Continued heating and the leading edge of appreciable ascent will weaken/erode the remaining cap on a localized basis and additional storm development is expected. Widely scattered storms are forecast by mid-late afternoon with several of the stronger storms being capable of a risk for large hail and severe gusts. This activity will probably merge to some degree and consolidate into a cluster by the early evening with the threat for hail/wind correspondingly increasing.

..Smith/Grams.. 06/20/2022

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

ATTN...WFO...ABR...LBF...UNR...CYS...

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