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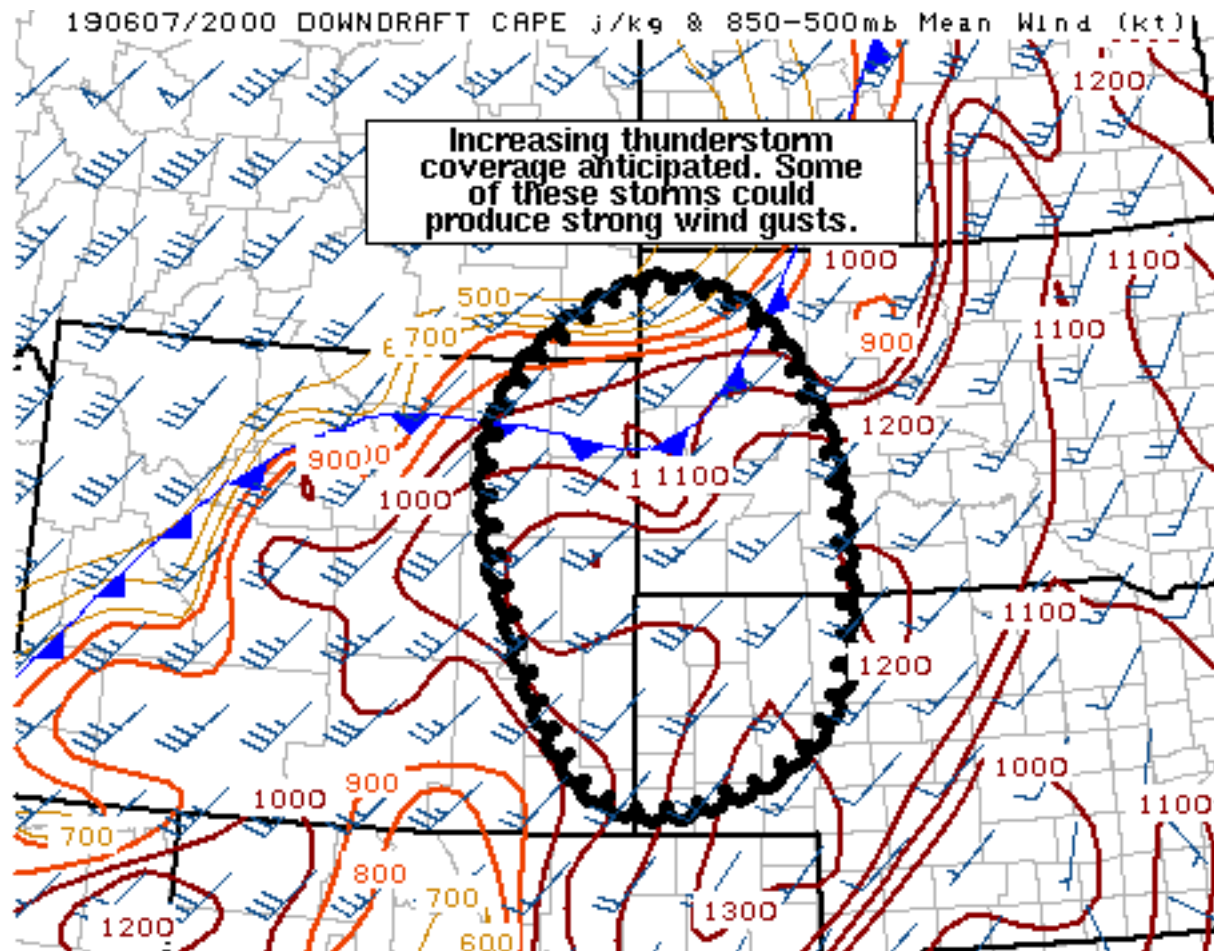
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## Mesoscale Discussion 1018

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SPC MCD #1018

Mesoscale Discussion 1018

NWS Storm Prediction Center Norman OK

0354 PM CDT Fri Jun 07 2019

Areas affected...Eastern WY...Far Southeast MT...Western SD...NE  
Panhandle

Concerning...Severe potential...Watch possible

Valid 072054Z - 072330Z

Probability of Watch Issuance...60 percent

SUMMARY...Gradually increasing thunderstorm coverage is anticipated. Some of these storms could produce strong wind gusts.

DISCUSSION...20Z surface analysis places a cold front from central ND southwestward into northwest SD and then westward into north-central WY. Air mass ahead of this front across the Dakotas has remained capped while only minimal convective inhibition remains across much of WY. Portion of this front across WY and western SD is



expected to slow its forward progression while the northern portion remains more progressive.

Expectation is for thunderstorm coverage and strength to gradually increase across central WY as ascent attendant to the shortwave trough moving through UT/ID moves eastward. This activity is then expected to move northeastward, with the front augmenting lift and strengthening ongoing cells. Increasing southwesterly flow aloft will result in fast storm motion while the deeply mixed boundary layer supports strong cold pool development. Trends are being monitored across this region for evidence of this convective evolution and resulting potential for a watch.

Farther south (across southeast WY/western NE Panhandle), a cluster of cold pool dominated thunderstorms is moving northeastward. Deeply mixed boundary layer downstream may promote occasionally strong wind gusts. There is a low probability this cluster evolves into a more organized convective system.

..Mosier/Thompson.. 06/07/2019

...Please see [www.spc.noaa.gov](http://www.spc.noaa.gov) for graphic product...

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