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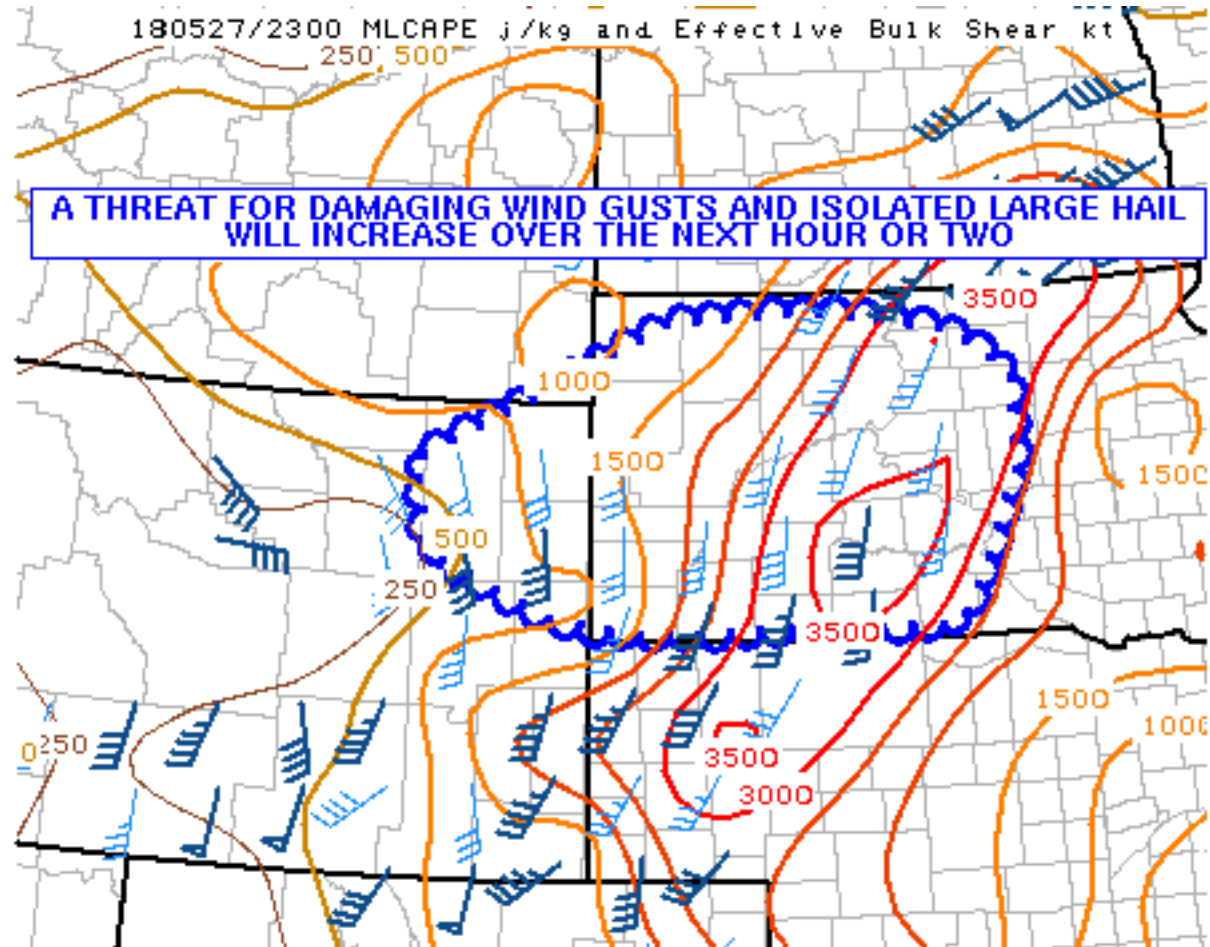
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## Mesoscale Discussion 546

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Mesoscale Discussion 0546

NWS Storm Prediction Center Norman OK

0606 PM CDT Sun May 27 2018

Areas affected...Western and central South Dakota...Northeastern Wyoming

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

Valid 272306Z - 280030Z

Probability of Watch Issuance...95 percent

SUMMARY...Ongoing convection northern/eastern Wyoming will move into the area with possible new development ahead of that activity. A severe wind threat will be possible with any storms. An isolated hail threat is also possible. Severe thunderstorm watch issuance is expected within the next hour.

DISCUSSION...Ongoing convection to the south and southwest of the discussion area is expected to move into northeastern Wyoming and

western South Dakota within the next few hours. New development is also possible ahead of the ongoing storms with surface analysis showing a front between Chadron, NE and Alliance, NE. RAP analysis shows MUCAPE values from 2000-4000 J/kg along with 30-35 kts of effective bulk shear mainly in western South Dakota and diminishing values to the west. Storms that develop in or move into the area will pose a damaging wind threat with the likely storm mode being linear. However, an isolated hail threat will also exist.

..Wendt/Gleason/Grams.. 05/27/2018

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

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