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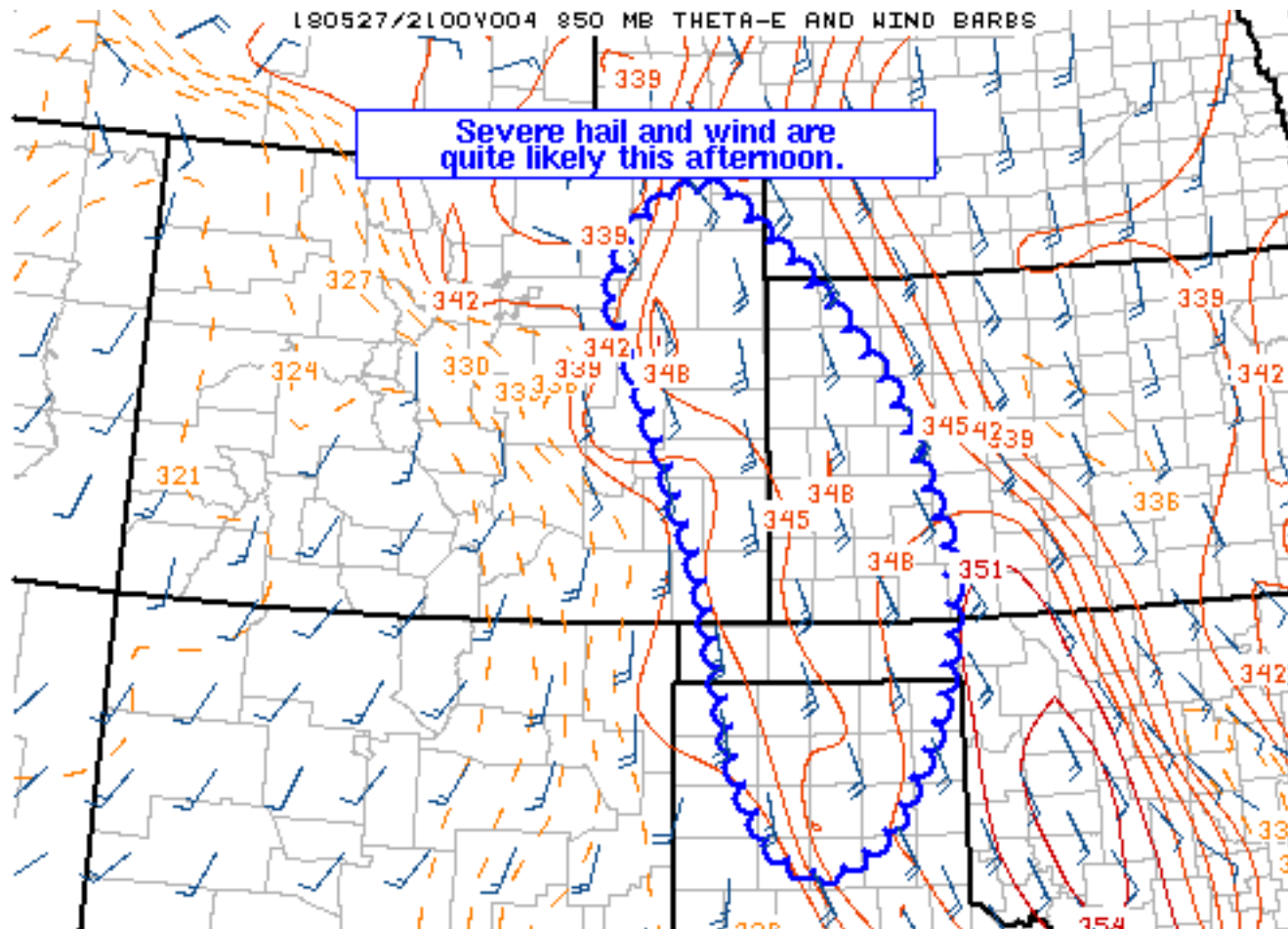
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## Mesoscale Discussion 540

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SPC MCD #0540

Mesoscale Discussion 0540

NWS Storm Prediction Center Norman OK

0138 PM CDT Sun May 27 2018

Areas affected...Eastern Colorado into western Kansas...and the Oklahoma and Texas Panhandles

Concerning...Severe potential...Watch likely

Valid 271838Z - 272115Z

Probability of Watch Issuance...95 percent

SUMMARY...Large hail and damaging wind are quite likely this afternoon across eastern Colorado into western Kansas, and southward into the Texas Panhandle.

DISCUSSION...Strong heating continues across the High Plains near a lee trough, and in advance of a belt of stronger midlevel flow with the upper trough to the west. Low-level winds will continue to strengthen and back to southeasterly, enhancing the westward

transport of moisture and gradual upslope. Forecast soundings show very steep lapse rates developing through a deep layer, and this combined with peak heating will aid updraft acceleration. While flow aloft is not particularly strong, the veering of the winds with height is creating long hodographs clearly supportive of severe storms. A mixed storm mode of cells and possible squall line is expected, with capable of damaging wind-driven hail. Capping will become a concern into the evening, with an abrupt decrease in intensity expected around the longitude of 100 W.

..Jewell/Hart.. 05/27/2018

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

ATTN...WFO...LBF...DDC...GLD...AMA...PUB...BOU...

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