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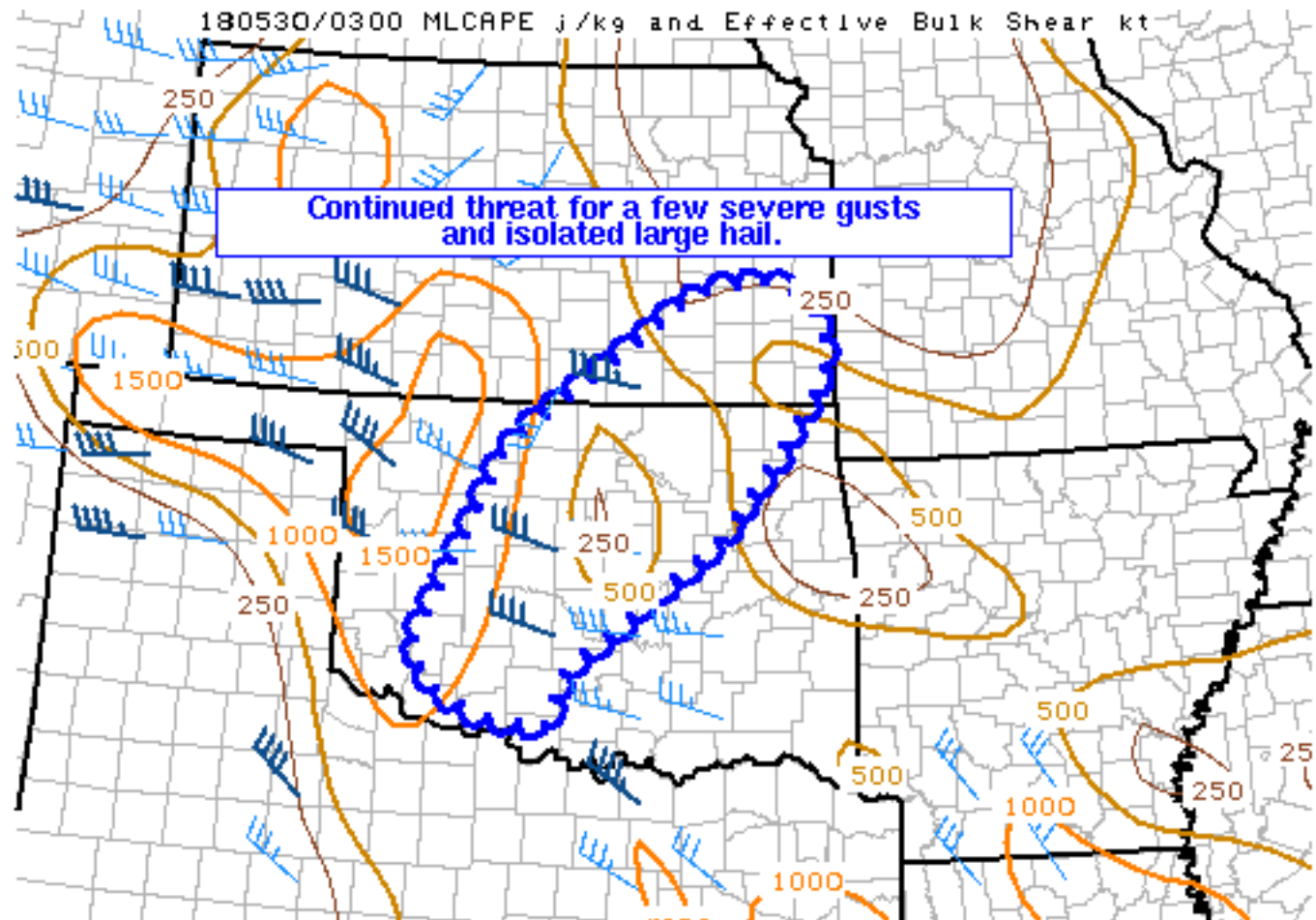
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## Mesoscale Discussion 574

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SPC MCD #0574

Mesoscale Discussion 0574

NWS Storm Prediction Center Norman OK

1058 PM CDT Tue May 29 2018

Areas affected...Portions of Oklahoma and southeast Kansas

Concerning...Severe Thunderstorm Watch 133...

Valid 300358Z - 300530Z

The severe weather threat for Severe Thunderstorm Watch 133 continues.

SUMMARY...Potential for isolated severe gusts and a few instances of large hail continues across Watch 133.

DISCUSSION...Two distinct clusters of convective activity are ongoing late this evening. The first is primarily anchored by a semi-discrete HP supercell over Kiowa Co. KFDR VWP data indicate a wind profile favorable for continued rotation, such that southeastward motion may persist with this cell. Indeed, mid-level

KFDR data periodically highlight robust updraft features, such as a stout ZDR column and BWER. In turn, a threat for isolated large hail and severe wind gusts may persist for perhaps another hour or so near the southern edge of Watch 133. Over time, convective inhibition should become too great for maintenance of the severe threat, though.

Farther north, a collection of embedded supercells and small linear segments is making steady eastward progress over northern Oklahoma and southern Kansas. A recent uptick in linear structure has been noted over southeastern Kansas, and these cells will pose a localized threat for damaging winds, before the low-level thermodynamic environment becomes too hostile to maintain this threat (generally towards the KS/MO border). To the south, convection also appears to be organizing into mainly outflow-dominant cells. A residual boundary layer (characterized by dry air just above a thin, cooling surface layer) will likely maintain some damaging wind threat over the next few hours. However, the threat should diminish late tonight, as the low-level jet veers and cells move into a less favorable thermodynamic environment farther east.

..Picca.. 05/30/2018

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