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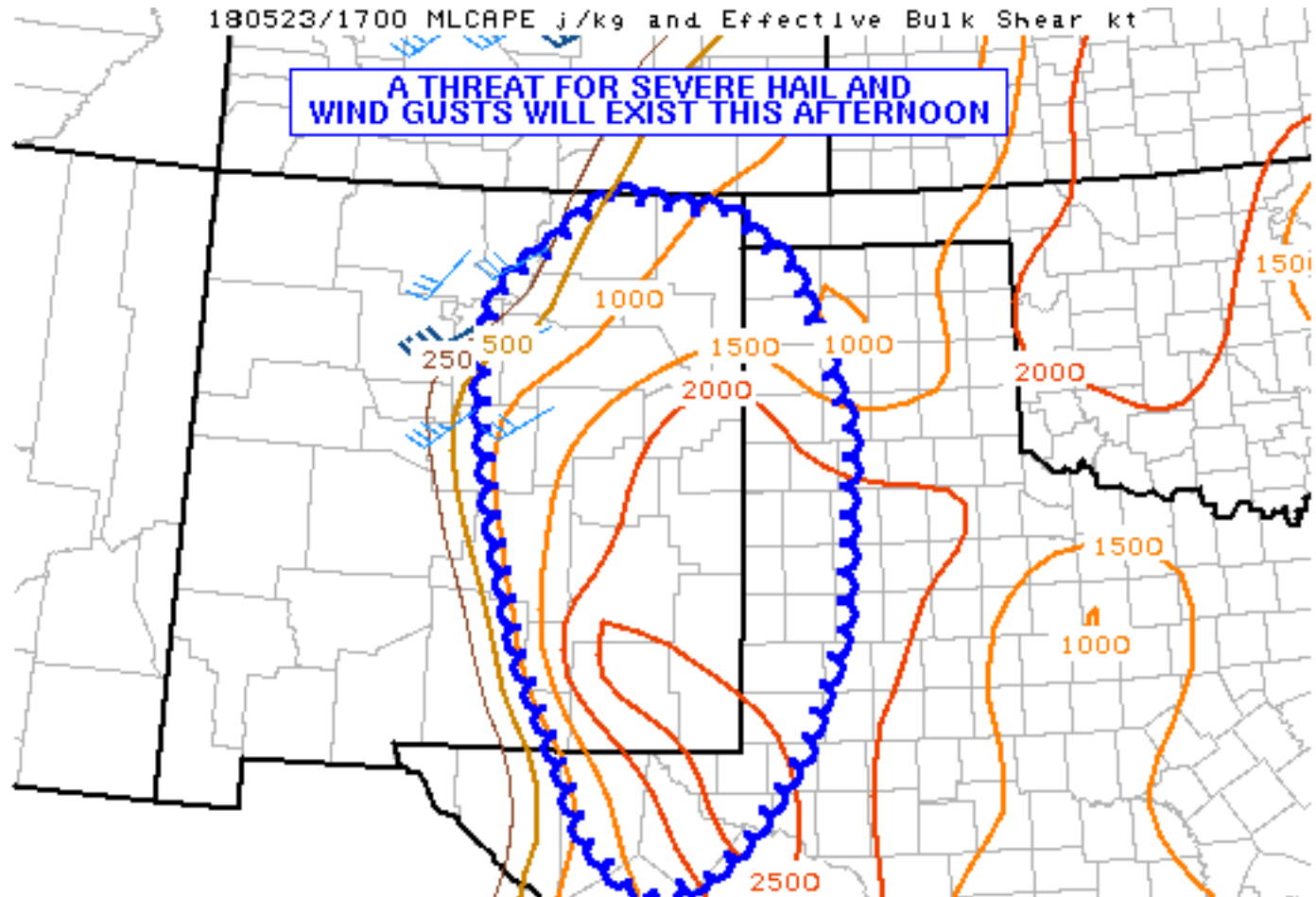
SPC Feedback

## Mesoscale Discussion 498

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180523/1700 MLCAPE j/kg and Effective Bulk Shear kt



SPC MCD #0498

Mesoscale Discussion 0498

NWS Storm Prediction Center Norman OK

0123 PM CDT Wed May 23 2018

Areas affected...Eastern New Mexico...Western Texas  
Panhandle...Southwest Texas

Concerning...Severe potential...Watch unlikely

Valid 231823Z - 231930Z

Probability of Watch Issuance...20 percent

SUMMARY...A severe hail and wind threat will exist this afternoon. A  
WW is not expected at this time, however convective trends will be  
monitored.DISCUSSION...Visible satellite imagery shows cumulus development  
along the the higher terrain of New Mexico southward into southwest  
Texas. Dewpoints of mid 50s to low 60s are generally in place across  
the discussion area with strong heating occurring, particularly in



southwest Texas. Continued heating and destabilization is expected over the next few hours which will lead to MLCAPE values from 1500 J/kg to 2500 J/kg. While buoyancy will be plentiful, shear will be the limiting factor on storm severity -- RAP analysis shows only 20-30 kts of deep-layer shear across the area. Nevertheless, a severe hail and wind threat will exist through the afternoon with the strongest storms. With time, storms should congeal and form a loosely organized line that will propagate eastward across the Texas panhandle, potentially posing a wind threat. A WW is not expected do to lack of better deep-layer shear for organization, however convective trends will be monitored.

..Wendt/Hart.. 05/23/2018

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

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