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Mesoscale Discussion 436

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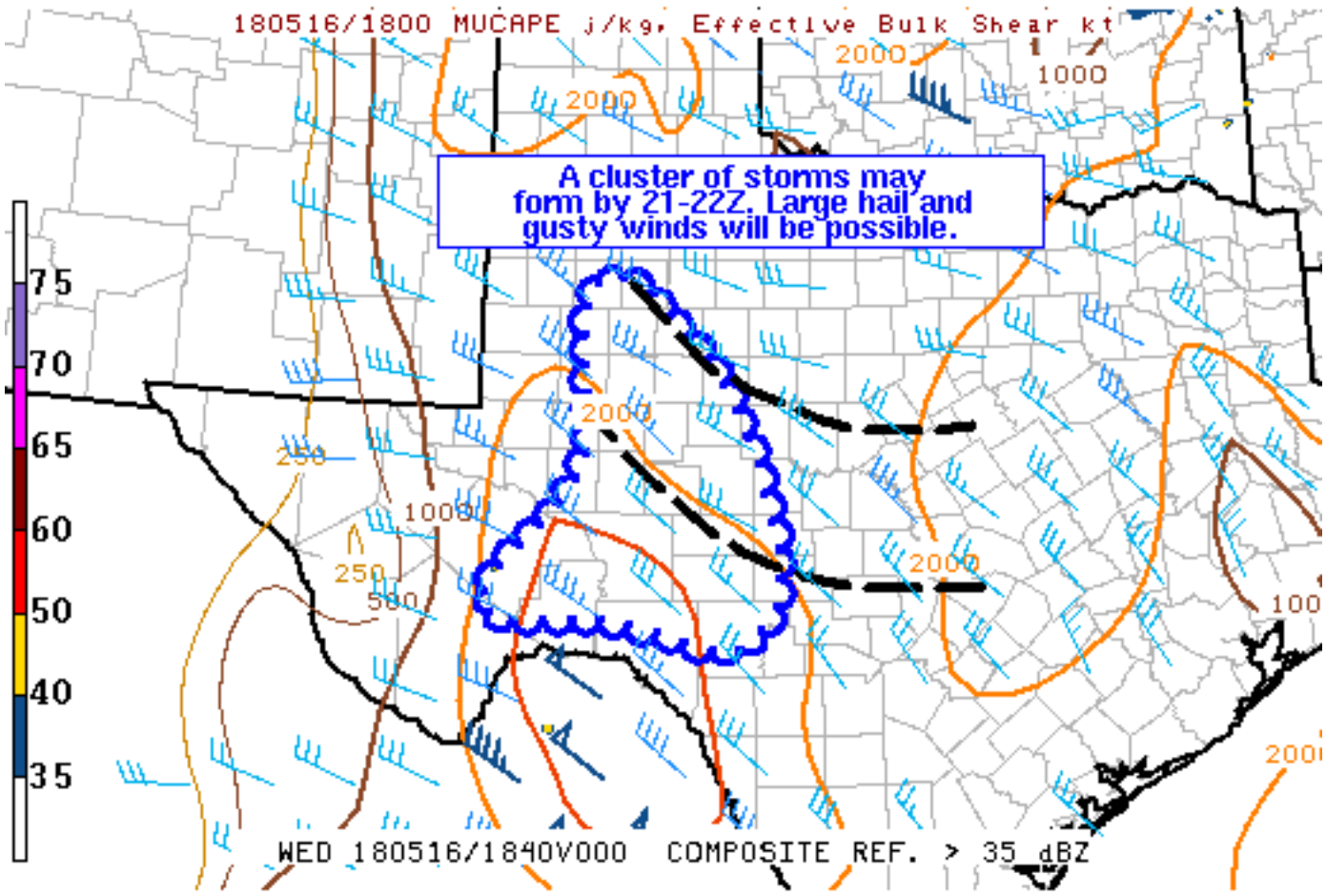

SPC MCD #0436

Mesoscale Discussion 0436
NWS Storm Prediction Center Norman OK
0210 PM CDT Wed May 16 2018

Areas affected...Parts of southwest Texas

Concerning...Severe potential...Watch possible

Valid 161910Z - 162145Z

Probability of Watch Issuance...40 percent

SUMMARY...Scattered storms are expected to form by around 22Z across southwest Texas, with large hail and locally strong winds possible.

DISCUSSION...Surface analysis shows a weakening boundary roughly from just east of Midland to south of San Angelo where strong heating continues. Temperatures were approaching 90 F west of this boundary, which may provide a focus for eventual storm development given weak convergence. Another weak boundary was evident farther north near Sweetwater. Meanwhile, towering CU were already

developing over the higher terrain between Ft. Stockton and Alpine where capping has been eroded.

Objective analysis indicates MUCAPE on the order of 2000-3000 J/kg with relatively steep low to mid level lapse rates. Light but veering winds with height in the low levels beneath modest northwesterly midlevel flow and strong upper-level flow is resulting in shear profiles supportive of organized cellular activity. Models suggest storms may form between 21-22Z, both over the higher terrain and near the residual outflow boundaries. These storms would then travel southeastward for several hours, with a threat of hail and/or wind. A small Slight Risk will be added in the 20Z outlook update.

..Jewell/Weiss.. 05/16/2018

...Please see www.spc.noaa.gov for graphic product...

ATTN...WFO...EWX...SJT...LUB...MAF...

LAT...LON 30010110 30150184 30080278 30220299 30680270 31130215
31590189 31950186 32100189 32780195 33170183 33280160
33090124 32650079 32200038 31650010 30769985 30259986
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