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Mesoscale Discussion 837

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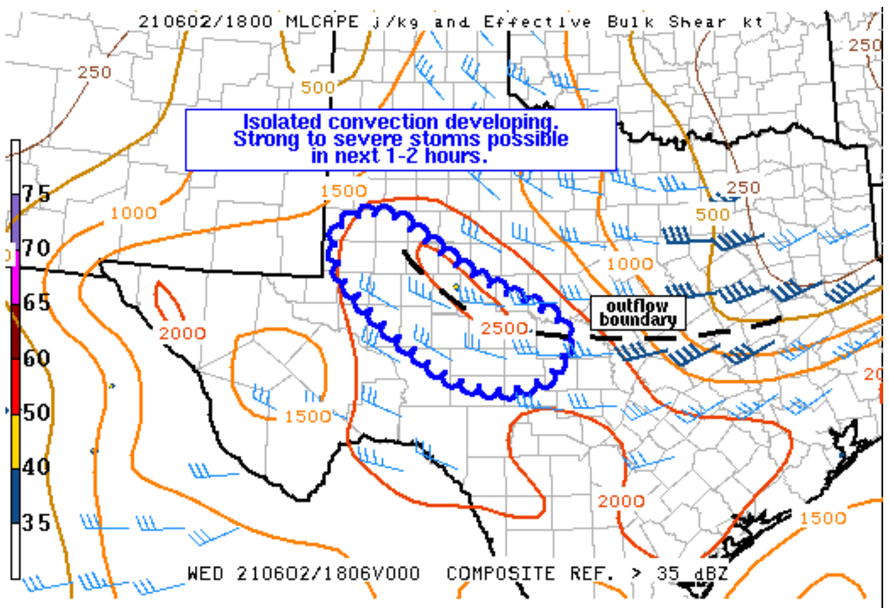

SPC MCD #0837

Mesoscale Discussion 0837
NWS Storm Prediction Center Norman OK
0128 PM CDT Wed Jun 02 2021

Areas affected...portions of western into central Texas

Concerning...Severe potential...Watch possible

Valid 021828Z - 022030Z

Probability of Watch Issuance...40 percent

SUMMARY...Isolated strong to severe thunderstorms are expected to develop over the next couple of hours across western/central Texas. Hail and strong wind gusts may accompany this activity into the early evening.

DISCUSSION...An outflow boundary from morning convection extends from near BPG to SJT to BBD early this afternoon. Strong heating in the vicinity of the boundary amid upper 50s to low 60s surface dewpoints is aiding in strong destabilization, with 2000-2500 J/kg MLCAPE noted in 18z mesoanalysis data. A couple of initial thunderstorms have developed along/just north of the boundary within the past hour or two before weakening. Additional, more robust development, has been noted recently over northern Sterling County with additional deepening CU noted further northwest to the north of Midland. While large-scale forcing will remain somewhat modest, additional diurnal development is expected in the vicinity of the surface boundary given weak low level convergence and strong instability. Steep midlevel lapse rates and sufficient shear should allow for a couple of organized cells capable of hail and strong gusts. Timing and convective coverage still remains somewhat uncertain and trends will be monitored for possible watch issuance over the next few hours.

..Leitman/Hart.. 06/02/2021

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

ATTN...WFO...SJT...MAF...

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30629954 30490014 30600067 30780116 31500215 31990269
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