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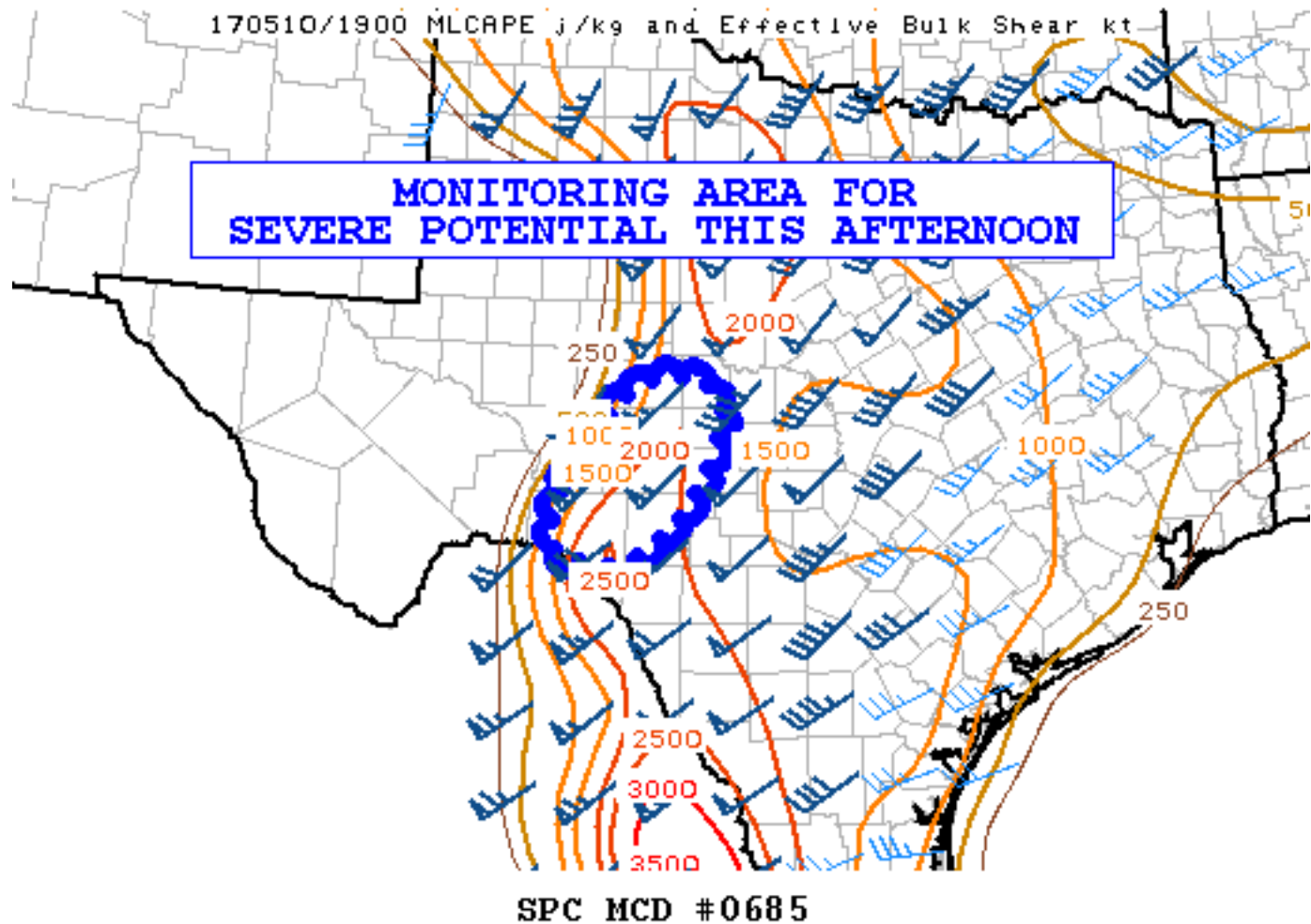
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Mesoscale Discussion 685

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Mesoscale Discussion 0685

NWS Storm Prediction Center Norman OK

0225 PM CDT Wed May 10 2017

Areas affected...Portions of southwest TX

Concerning...Severe potential...Watch possible

Valid 101925Z - 102200Z

Probability of Watch Issuance...40 percent

SUMMARY...Portions of southwest TX are being monitored for increasing severe-thunderstorm potential this afternoon. It is unclear whether the coverage of this activity would be sufficient for Watch issuance through the afternoon, though Watch issuance will be possible.

DISCUSSION...An area of steep low-level lapse rates extends from the TX Trans-Pecos region toward and just east of a dryline analyzed from the San Angelo area southward to the Rio Grande Valley around

Val Verde County vicinity. MLCAPE around 2000-3000 J/kg east of the dryline amid 50-70 kt of effective shear supports an environment characterized by conditional severe potential.

Despite a prominent mid-level speed maximum overlying the dryline circulation, large-scale ascent is somewhat lacking, and thunderstorm development/sustenance will largely be encouraged by the dryline circulation bolstered by diabatic surface-layer heating. Regardless, towering cumulus and isolated thunderstorm development continue near the international border, and one or two supercells may mature near the dryline and spread east-northeastward into the late afternoon/early evening hours. However, through that time, it is unclear whether any more than an isolated severe storm or two would evolve, with large hail being the primary concern. Later this evening, strengthening deep ascent may offer greater severe potential. Nevertheless, the area will continue to be monitored for some Watch potential in the shorter-term.

..Cohen/Guyer.. 05/10/2017

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

ATTN...WFO...EWX...SJT...

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