

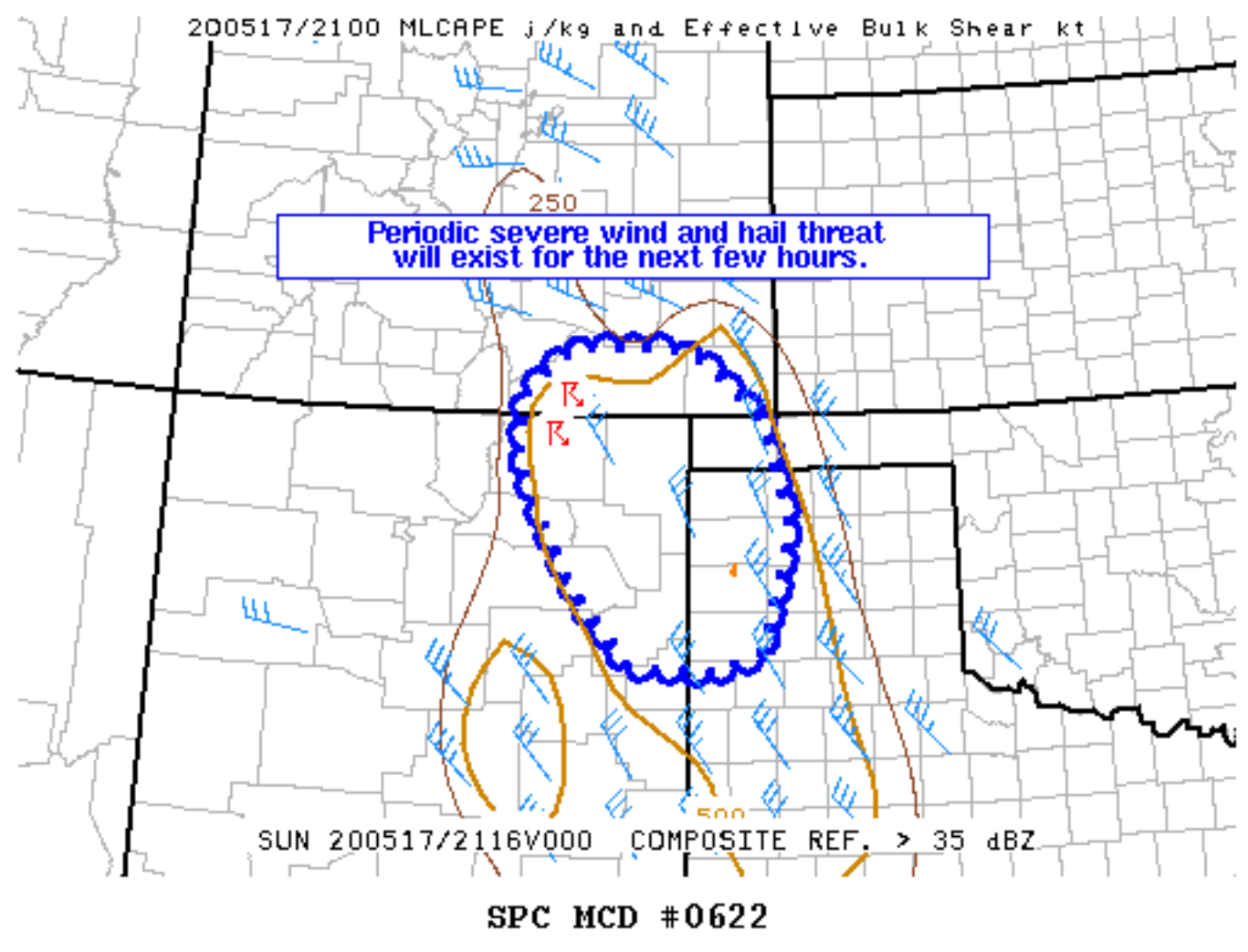


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Mesoscale Discussion 622

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Mesoscale Discussion 0622
 NWS Storm Prediction Center Norman OK
 0449 PM CDT Sun May 17 2020

Areas affected...southeast Colorado...northeast New Mexico...and the northwest Panhandles region

Concerning...Severe potential...Watch unlikely

Valid 172149Z - 172345Z

Probability of Watch Issuance...20 percent

SUMMARY...A periodic severe wind and hail threat will exist for the coming hours as thunderstorms develop along the CO/NM border. However, uncertainty regarding the coverage and duration of the severe threat precludes a watch at this time.

DISCUSSION...Recent lightning and visible satellite data show convective initiation underway along the CO/NM border within a region of agitated cumulus near the Raton Mesa region. Although these storms are developing in an environment that will maintain convection, the environment is not overly favorable for a robust severe threat given modest 500-1000 J/kg MLCAPE with 25-35 knots of effective bulk shear. However, steep 8-9 C/km low-level lapse rates and around 100 m2/s2 of 0-3 km SRH across northeast NM will support a severe wind and hail in the near term. Deep layer flow will favor semi-discrete to discrete modes as storms propagate to the southeast away from the zone of initiation, but they will eventually move into a region that remains somewhat capped per recent RAP mesoanalysis. Although continued daytime heating should erode this inhibition over the next 1-2 hours, this uncertainty casts doubt into the duration and coverage of the severe threat. Given these concerns, a watch is not likely at this time.

..Moore/Hart.. 05/17/2020

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

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