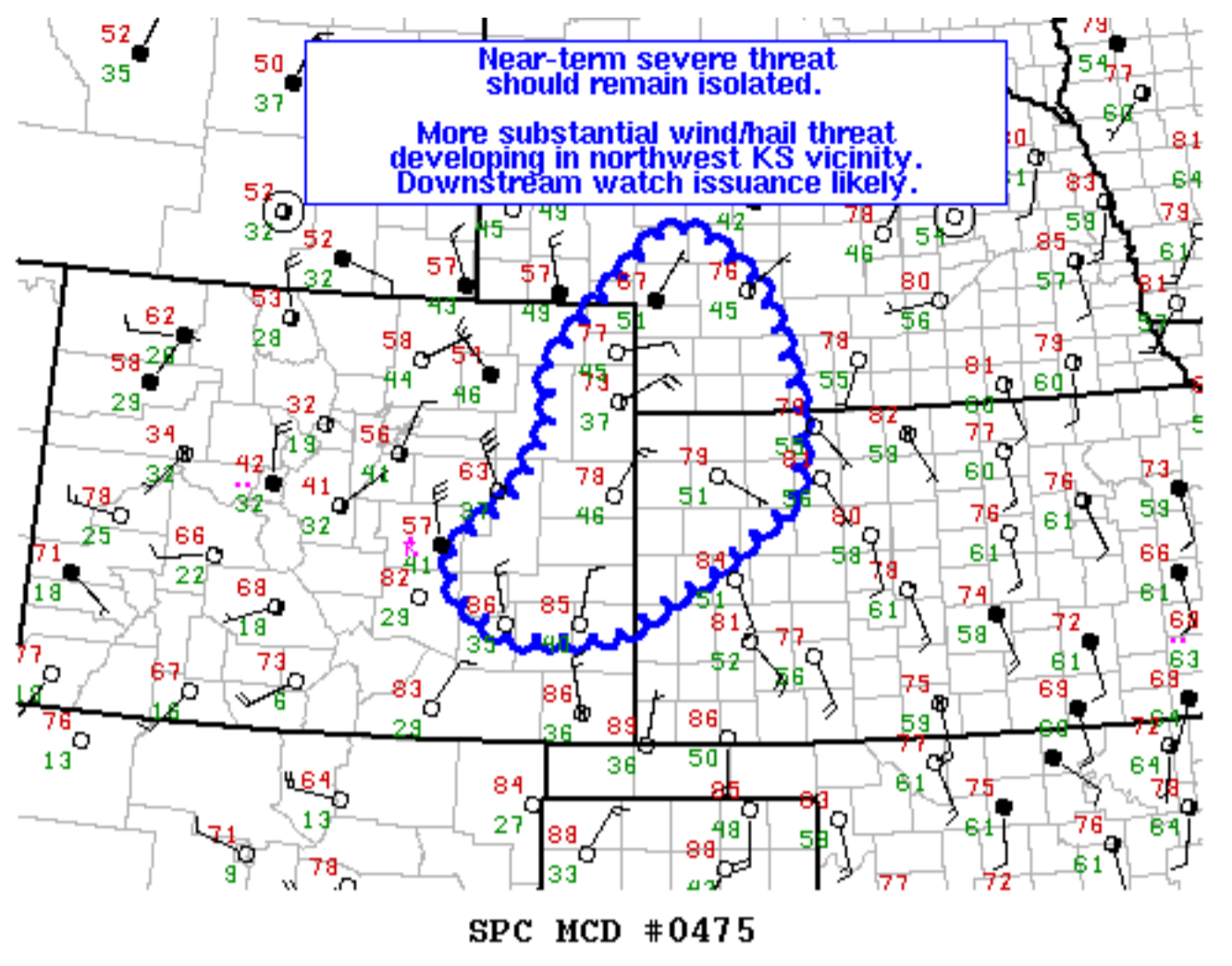


Local forecast by
"City, St" or "ZIP"City, St

Mesoscale Discussion 475

[< Previous MD](#) [Next MD >](#)

Mesoscale Discussion 0475

NWS Storm Prediction Center Norman OK

0345 PM CDT Sun May 02 2021

Areas affected...Eastern CO...northwest KS...southwest NE

Concerning...Severe Thunderstorm Watch [124](#)...

Valid 022045Z - 022215Z

The severe weather threat for Severe Thunderstorm Watch 124 continues.

SUMMARY...While the severe threat through 23Z should remain rather isolated over eastern CO and southwest NE, a substantial increase is expected this evening centered on northwest KS. A downstream severe thunderstorm watch will likely be needed.

DISCUSSION...Near-term severe threat is expected to remain most prominent with a southeast-moving supercell that is currently east of Pueblo. This cell should propagate more east-southeast over the next couple hours across southeast CO with a risk for mainly severe wind and some hail. Convection farther northeast across northeast CO into western NE has generally remained sub-severe with the most prominent recent wind gust of 45 kt at AKO at 2010Z. This activity should largely spread across southwest NE with a threat for strong to isolated severe wind and marginally severe hail.

Recent HRRR runs along with the 18Z NAM-Nest have trended towards the indication of a separate corridor of thunderstorm development across northwest KS. This appears to be in response to strengthening low-level convergence along the boundary, especially from 23-00Z, as it impinges on the northwest periphery of MLCAPE near 1000 J/kg. Initial updrafts will pose a severe hail threat before upscale growth yields a substantial severe wind threat around 01-02Z given the steep lapse rate environment.

..Grams.. 05/02/2021

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

ATTN...WFO...GID...LBF...DDC...GLD...PUB...BOU...

LAT...LON 40430307 41140233 41720164 41610120 41240063 40890039
40550026 39980008 39170018 38490133 37970227 37950347
38260404 38640424 39220343 39840302 40430307

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