

Storm Prediction Center



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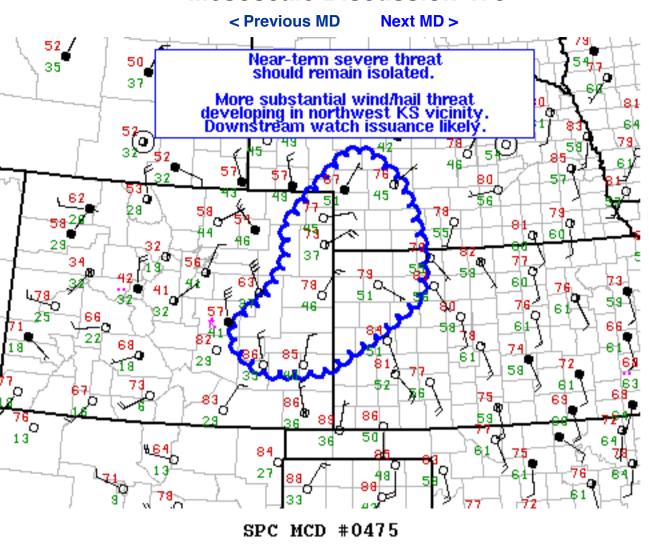
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Mesoscale Discussion 475

News

Organization



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...

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