



Local forecast by "City, St" or "ZIP"
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Mesoscale Discussion 562

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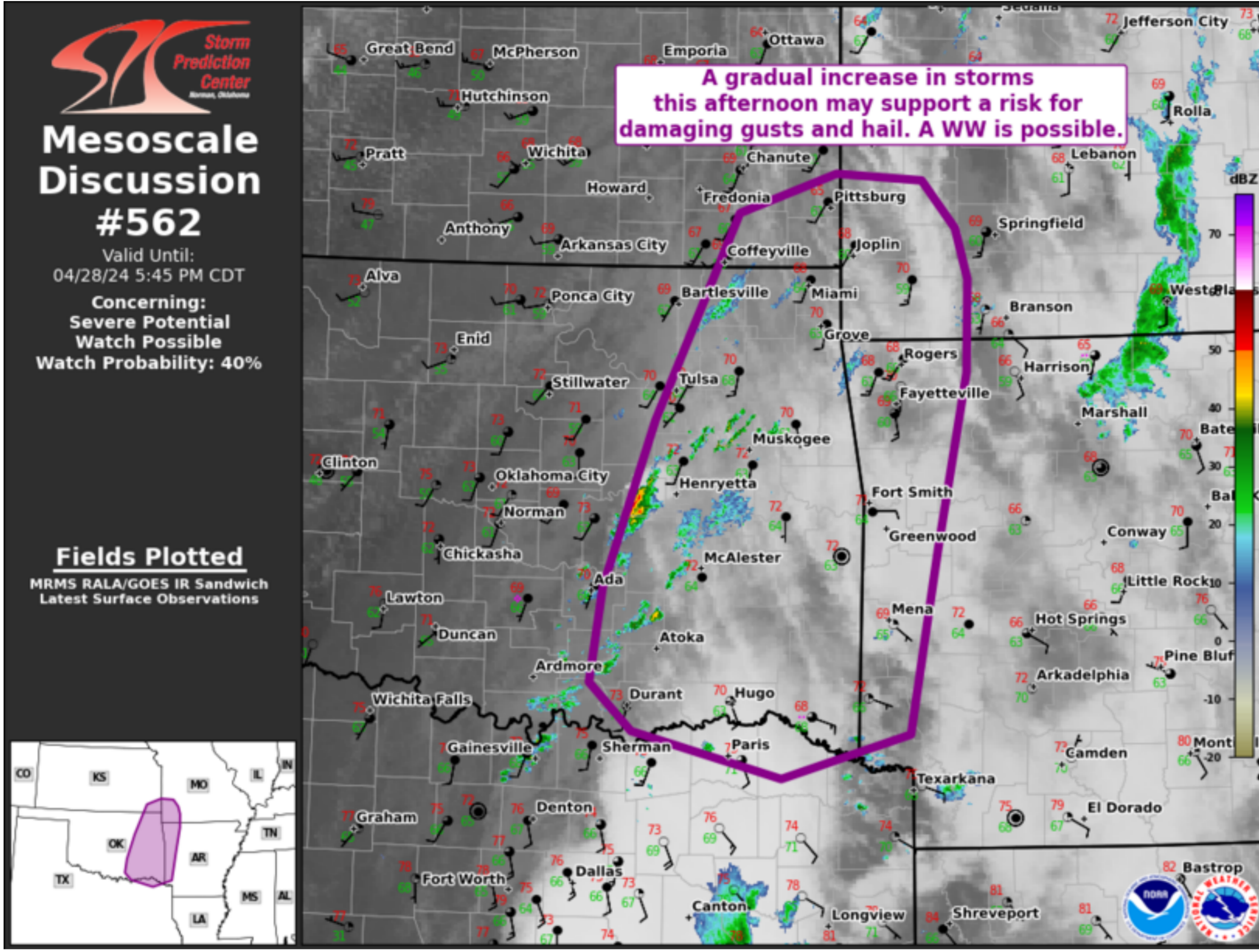
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Mesoscale Discussion 0562
 NWS Storm Prediction Center Norman OK
 0338 PM CDT Sun Apr 28 2024

Areas affected...portions of eastern OK...western Arkansas and into far southeast KS and southwest MO.

Concerning...Severe potential...Watch possible

Valid 282038Z - 282245Z

Probability of Watch Issuance...40 percent

SUMMARY...Weak showers may gradually deepen into clusters of strong to severe storms late this afternoon. Uncertainty remains high as it is unclear if the air mass can recover in the wake of earlier storms. Trends will be monitored for a possible WW.

DISCUSSION...As of 2030 UTC, regional radar and satellite data showed a few showers slowly deepening over parts of central and eastern OK and northeast TX. In the wake of the early day MCS lingering clouds have slowed diurnal heating with temperatures stubbornly remaining in the upper 60s to low 70s F. Still, some clearing has emerged and 1.25-1.4 in precipitable water values show sufficient moisture for deep convection. Hi-res guidance shows these showers may gradually deepen into several clusters of thunderstorms across eastern OK over the next couple of hours as a subtle upper-level trough moves in from the west. With 500-1000 J/kg of MLCAPE potential available by 22-23z, a few stronger updrafts could emerge. 35-45 kt of effective shear would favor storm organization, though in the form of a mix of cellular and cluster elements. Damaging gusts and isolated hail appear to be the most likely threats should more robust storms develop. Still, a 30-40 kt LLJ should enlarge low-level hodographs near sunset to support the risk for a tornado or two. The primary uncertainty for this afternoon and evening is the coverage and intensity of storms that develop. While it remains unclear now, conditions are being monitored for a possible watch.

..Lyons/Hart.. 04/28/2024

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

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