



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

City, St



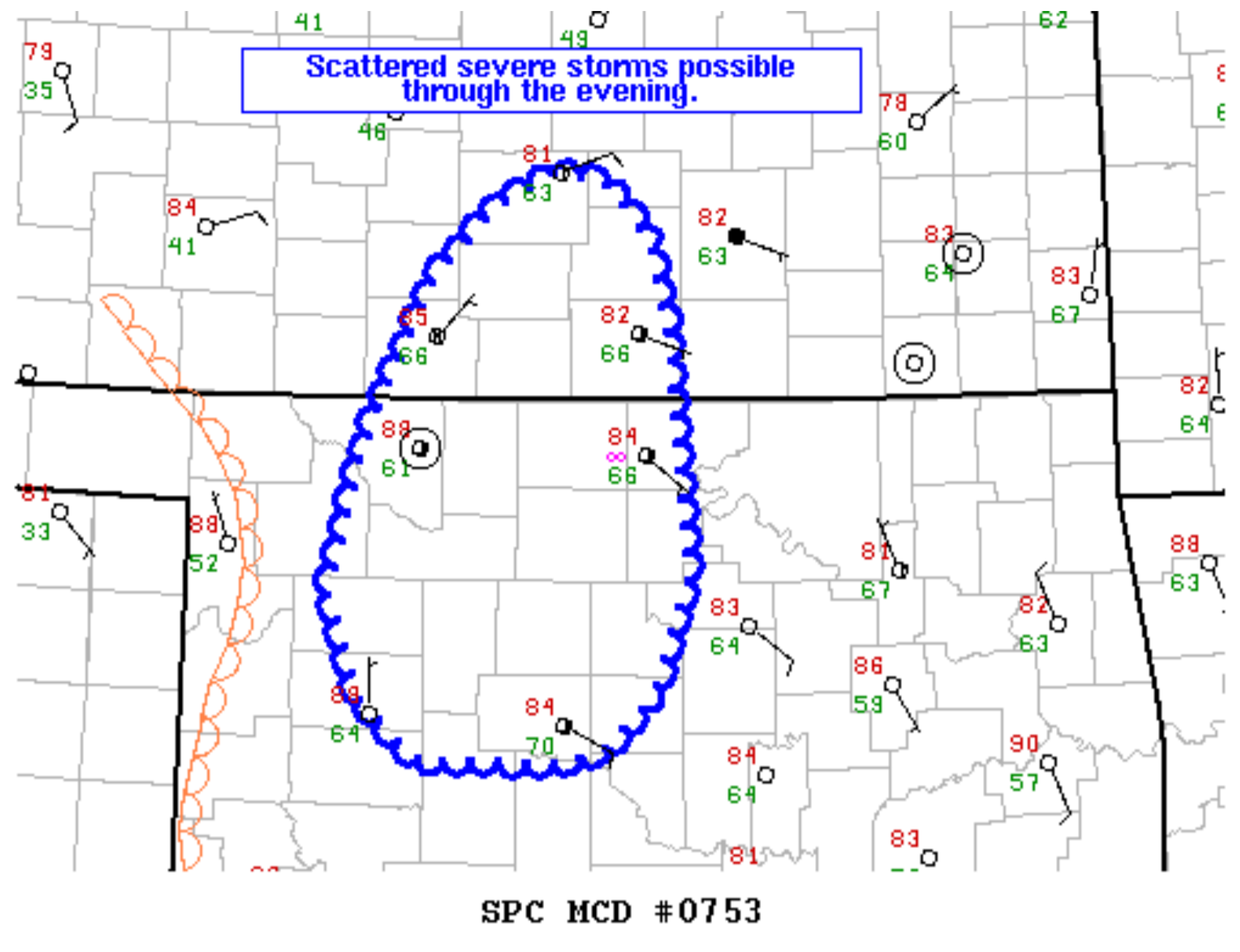
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## Mesoscale Discussion 753

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Mesoscale Discussion 0753  
 NWS Storm Prediction Center Norman OK  
 0527 PM CDT Fri May 13 2022

Areas affected...South-central Kansas and portions of northern Oklahoma

Concerning...Severe potential...Watch possible

Valid 132227Z - 140030Z

Probability of Watch Issuance...40 percent

SUMMARY...Scattered severe storms are possible through this evening across southern Kansas and northern Oklahoma. A severe thunderstorm watch may be needed if robust storms develop this evening.

DISCUSSION...A region of upper 60s to near 70 dewpoints is in place across southern Kansas and central Oklahoma ahead of a diffuse dryline. Visible satellite imagery has shown multiple orphan anvils across southern Kansas in a region where the cumulus field is deeper. Storms may eventually develop in this region, most likely in Harper/Kingman counties where the cumulus field is more clustered. However, the timing of convection remains unclear. Some guidance such as the HRRR suggest storm development may not occur until after 00Z as the mid-level trough moves eastward. However, visible satellite trends and SPC mesoanalysis indicating CINH has eroded suggest storm development could occur earlier.

The thermodynamic environment (2000-3000 J/kg MLCAPe and steep mid-level lapse rates) and effective shear around 45-50 knots would support supercell storm mode initially. Eventually these storms may congeal into more of a cluster as they move/build south-southeastward. Low-level flow is quite weak per the KICT and KVNX VWP which should preclude an appreciable tornado threat, but large hail will be possible given the steep lapse rates and expected storm mode with perhaps an increased severe wind threat if storms congeal with time.

..Bentley/Hart.. 05/13/2022

...Please see [www.spc.noaa.gov](http://www.spc.noaa.gov) for graphic product...

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