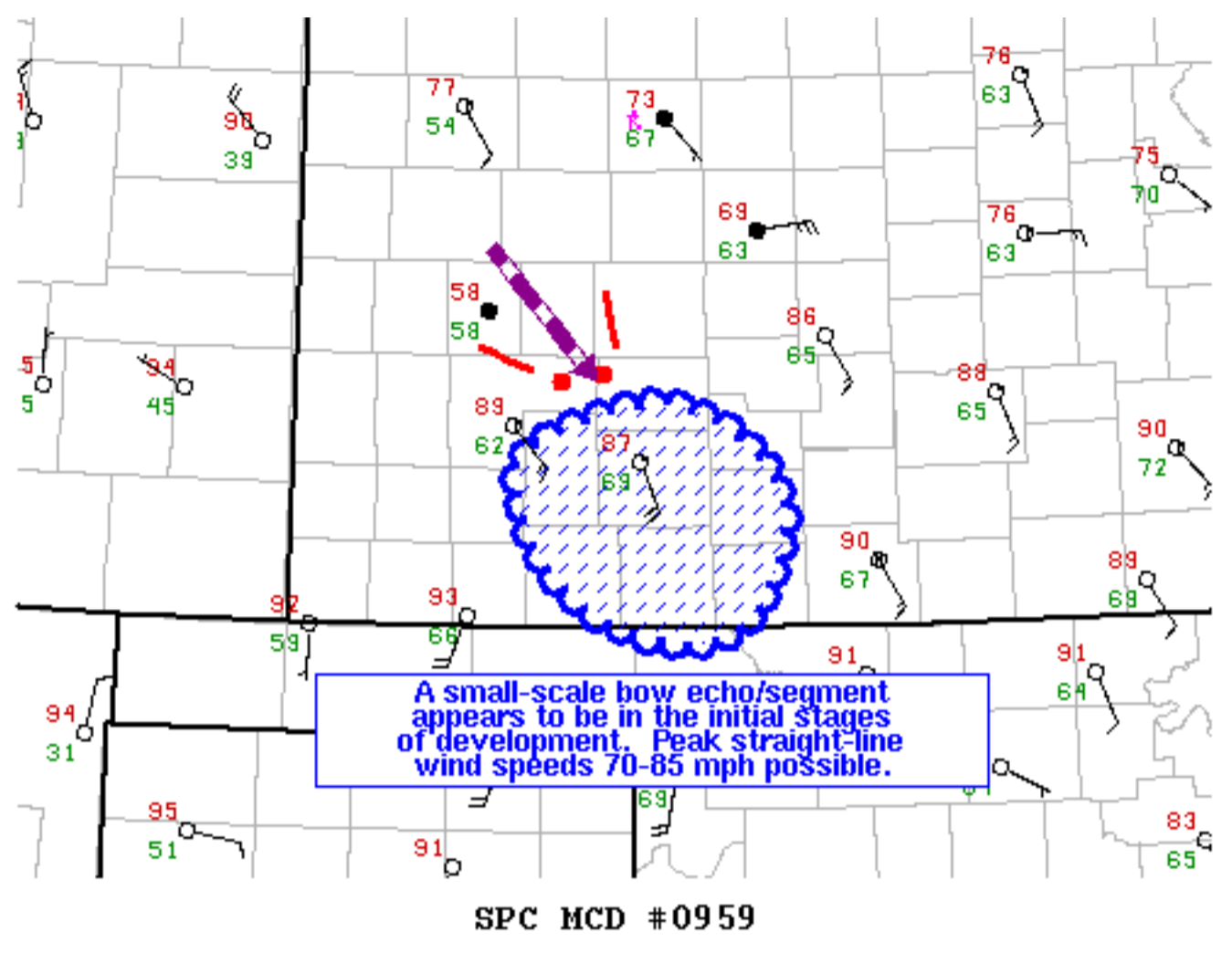




Local forecast by "City, St" or "ZIP"

City, St

Mesoscale Discussion 959

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

Mesoscale Discussion 0959

NWS Storm Prediction Center Norman OK

0451 PM CDT Sun Jun 21 2020

Areas affected...southwest KS

Concerning...Severe Thunderstorm Watch [290](#)...

Valid 212151Z - 212345Z

The severe weather threat for Severe Thunderstorm Watch 290 continues.

SUMMARY...A small-scale bow echo/segment appears to be in the initial stages of development. Peak straight-line gusts with speeds 70-85 mph are possible with this organizing squall line.

DISCUSSION...CAPPI 10km radar imagery shows several large thunderstorm cores over southwest KS with a couple of storms immediately ahead of an evolving cluster of storms moving to the southeast. Surface temperatures have warmed into the lower to middle 90s from Harper County, OK northward to near Dodge City with surface dewpoints ranging from the middle 60s to 68 degrees F at the Slapout, OK mesonet site. As a result, the airmass across southwest KS has become very unstable with objective analysis indicating 3000-4000 J/kg MLCAPE immediately to the southeast of the ongoing storm activity.

RAP forecast soundings/objective analysis indicates around 40kt effective shear over southwestern KS. As low-level flow intensifies by early evening from the eastern TX Panhandle/northwest OK into southwestern KS, the deep-layer shear will likely strengthen further and become more favorable for an organized, severe squall line. Once the coalescing of larger updraft cores occurs near the Dodge City vicinity, the expectation is for some acceleration of the squall line to the south-southeast with severe gusts becoming spatially more dense. Peak wind speeds in the 70-85 mph appear likely.

..Smith.. 06/21/2020

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

ATTN...WFO...OUN...DDC...

LAT...LON 37750070 38049979 37589911 36939946 37100032 37750070

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