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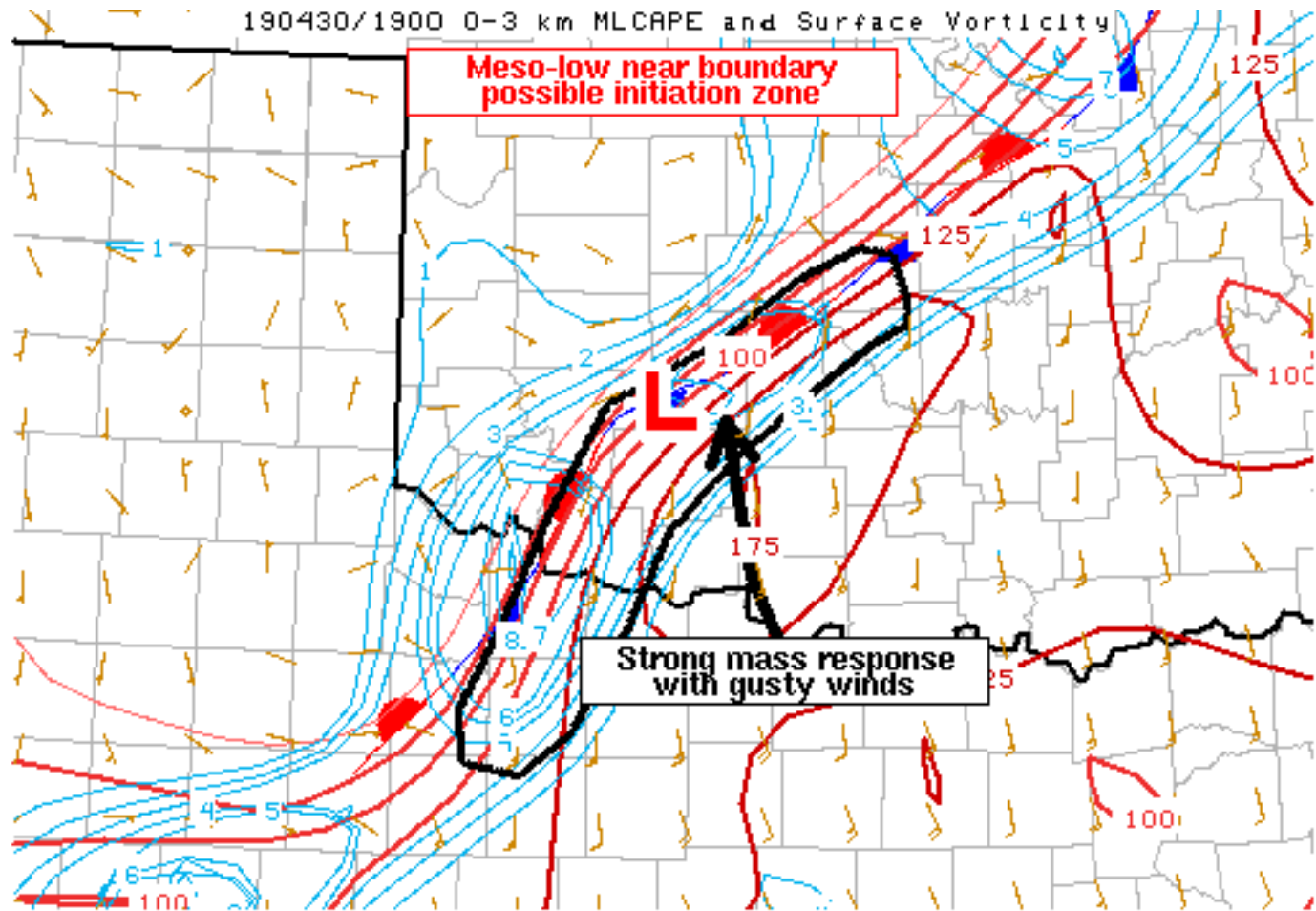
SPC Feedback

Mesoscale Discussion 482

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190430/1900 0-3 km MLCAPE and Surface Vorticity



SPC MCD #0482

Mesoscale Discussion 0482

NWS Storm Prediction Center Norman OK

0256 PM CDT Tue Apr 30 2019

Areas affected...northwest Texas into southwest/central Oklahoma

Concerning...Tornado Watch [111](#)...

Valid 301956Z - 302200Z

The severe weather threat for Tornado Watch 111 continues.

SUMMARY...Recent trends suggest possible storm initiation across southwest Oklahoma into northwest Texas, with a corridor of tornado and damaging wind threat along the front.

DISCUSSION...Latest surface obs, including the Oklahoma Mesonet, show a low developing near the stationary front centered over Caddo county. In addition, surface observations indicate gusty southeast winds of 25-30 mph blowing toward the low, suggesting favorable mass response with pressure falls.



Substantial low-level moisture exists along this boundary, extending from northwest TX into central OK. In addition, radar trends show showers and a few storms beginning to form from Wilbarger county TX toward Caddo/Grady counties as of 20Z.

The TLX VWP shows over 300 m2/s2 of 0-3 km SRH, while latest objective analysis also shows substantial surface vorticity in place near the front.

Therefore, any storms that develop may proceed northeast nearly parallel to the front, and if they do, could pose a tornado threat, as well as damaging winds if they grow upscale into an MCS.

..Jewell.. 04/30/2019

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

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NOAA / National Weather Service
 National Centers for Environmental Prediction
 Storm Prediction Center
 120 David L. Boren Blvd.
 Norman, OK 73072 U.S.A.
spc.feedback@noaa.gov
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