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Mesoscale Discussion 836

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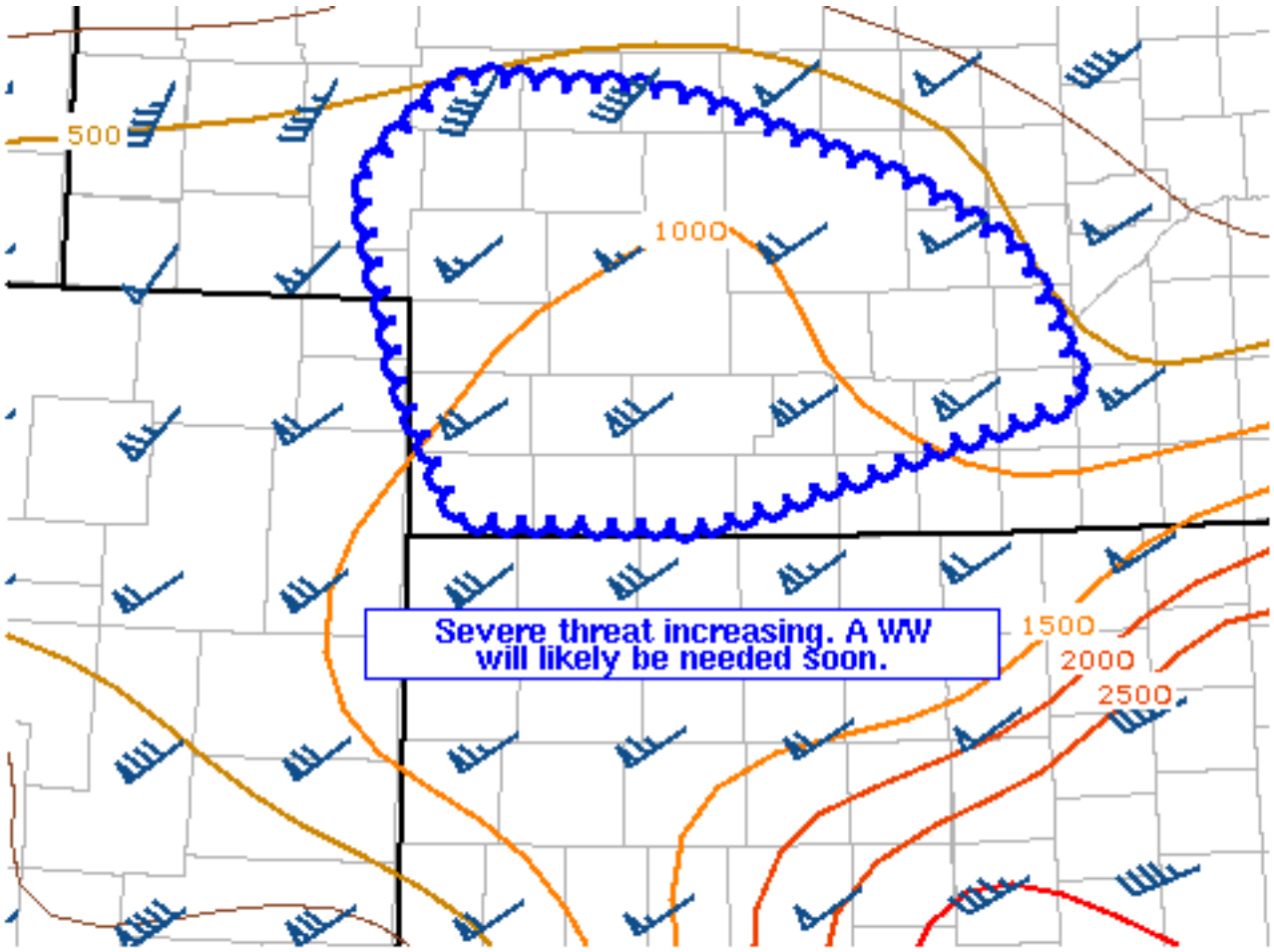

SPC MCD #0836

Mesoscale Discussion 0836
NWS Storm Prediction Center Norman OK
0439 PM CDT Mon May 27 2019

Areas affected...southwest into central Nebraska

Concerning...Severe potential...Severe Thunderstorm Watch likely

Valid 272139Z - 272345Z

Probability of Watch Issuance...80 percent

SUMMARY...The severe threat is increasing across portions of southwest into central Nebraska, ahead of a mid-level impulse and along a surface west-east baroclinic zone. Large hail and damaging winds will be the primary threat. A WW will likely be issued in the next hour.

DISCUSSION...An east to west oriented baroclinic zone has become established across western into central Nebraska, where low-level convergence and pooling of moisture (dewpoints exceeding 60F) is

occurring. As deep-layer ascent overspreads the baroclinic zone with the approaching mid-level shortwave trough, discrete/semi-discrete convection will initiate along the east-west boundary, while storms located in Tornado Watch 0264 will propagate outside of the watch bounds into southwest Nebraska. Convective cells from both regimes are expected to gradually merge and grow upscale into an MCS later this evening.

Storms that are initially discrete will pose a risk for large hail given their propensity to sustain mid-level updraft rotation. The longest lived, most intense discrete supercell structures may produce significant severe hail and perhaps a brief tornado, especially with storms in southwest Nebraska (where lapse rates are steepest). Merging storm clusters, bow echoes, and any supercell structure producing water-loaded rear-flank/forward flank downdrafts may also produce damaging wind gusts.

Given the expected duration and coverage of a severe threat, a Severe Thunderstorm Watch will likely be needed within the next hour.

..Squitieri/Hart.. 05/27/2019

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

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