

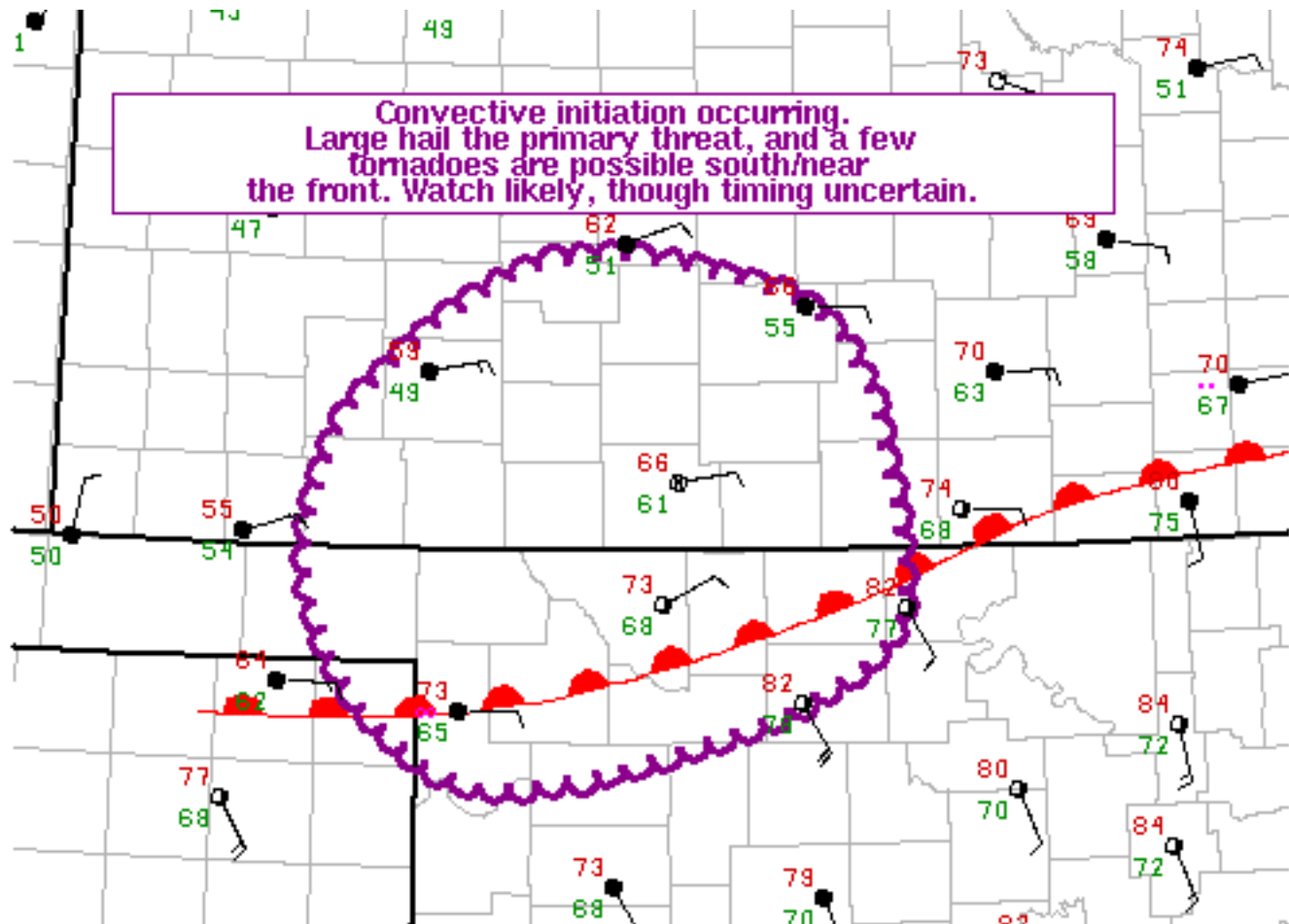
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Mesoscale Discussion 752

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SPC MCD #0752

Mesoscale Discussion 0752

NWS Storm Prediction Center Norman OK

0142 PM CDT Thu May 23 2019

Areas affected...Southern Kansas and Northern Oklahoma

Concerning...Severe potential...Watch likely

Valid 231842Z - 231945Z

Probability of Watch Issuance...80 percent

SUMMARY...Convective initiation occurring along/south of a warm front. Large hail is the primary threat, and a few tornadoes are possible south/near the front. Watch likely, though timing uncertain.

DISCUSSION...Regional surface observations and objective mesoanalysis shows an east/west oriented warm front over the northern tier of counties in Oklahoma, moving quickly northward, on the precipice of entering southern Kansas. Regional satellite shows



boundary-layer cumulus developing along the front and steadily obtaining greater vertical depth. Regional radar shows weak echoes with this activity. It appears this will be a mechanism for convective development over the next few hours. Storms that develop along the front should become quickly elevated, although any storms that linger or are able to ride along the boundary could pose a tornado threat. However, the thermodynamic/kinematic environment north of the boundary is quite support of large hail (MUCAPE 2000-2500 J/kg and effective shear 50-55 kt).

South of the warm front, additional convective development is possible in the warm sector. Here, temperatures are in the low 80s F with dew points in the low 70s F. Any storms that develop here will also pose a large hail threat. A tornado threat will also exist with this activity that resides in the warm sector or as it crosses the warm front.

A watch is being considered for this region, however the timing of watch issuance remains uncertain.

..Karstens/Hart.. 05/23/2019

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

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