

DISCUSSION...The latest surface analysis shows a 1008 mb low over



north-central Oklahoma with a boundary extending east-southeastward from the surface low across northern and eastern Oklahoma. Surface dewpoints along this boundary are in the mid to upper 60s F and moderate instability is in place with MLCAPE values estimated by the RAP in the 1500 to 2500 J/kg range. As surface temperatures continue to increase into the mid to upper 70s F and as low-level convergence becomes more focused along the boundary, convective initiation is expected to take place across northern Oklahoma over the next hour or two.

At mid-levels, an upper-level low is located across far northwest Oklahoma according to water vapor imagery with a 60 to 75 kt mid-level jet over southern Oklahoma. The mid-level jet was helping to enhance lift and create strong deep-layer shear profiles across Oklahoma which will support supercell development. Cold air aloft (500 mb temperatures of -16 to -18C) along with 700-500 mb lapse rates near 8.0 C/km will be favorable for large hail with rotating updrafts. As cells increase in coverage and downdrafts mature early this afternoon, a wind damage threat is also expected to develop. Although low-level shear is relatively weak across northern Oklahoma, a brief tornado can not be ruled out mainly with any supercell that becomes dominant.

..Broyles.. 05/11/2017

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

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