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Mesoscale Discussion 857

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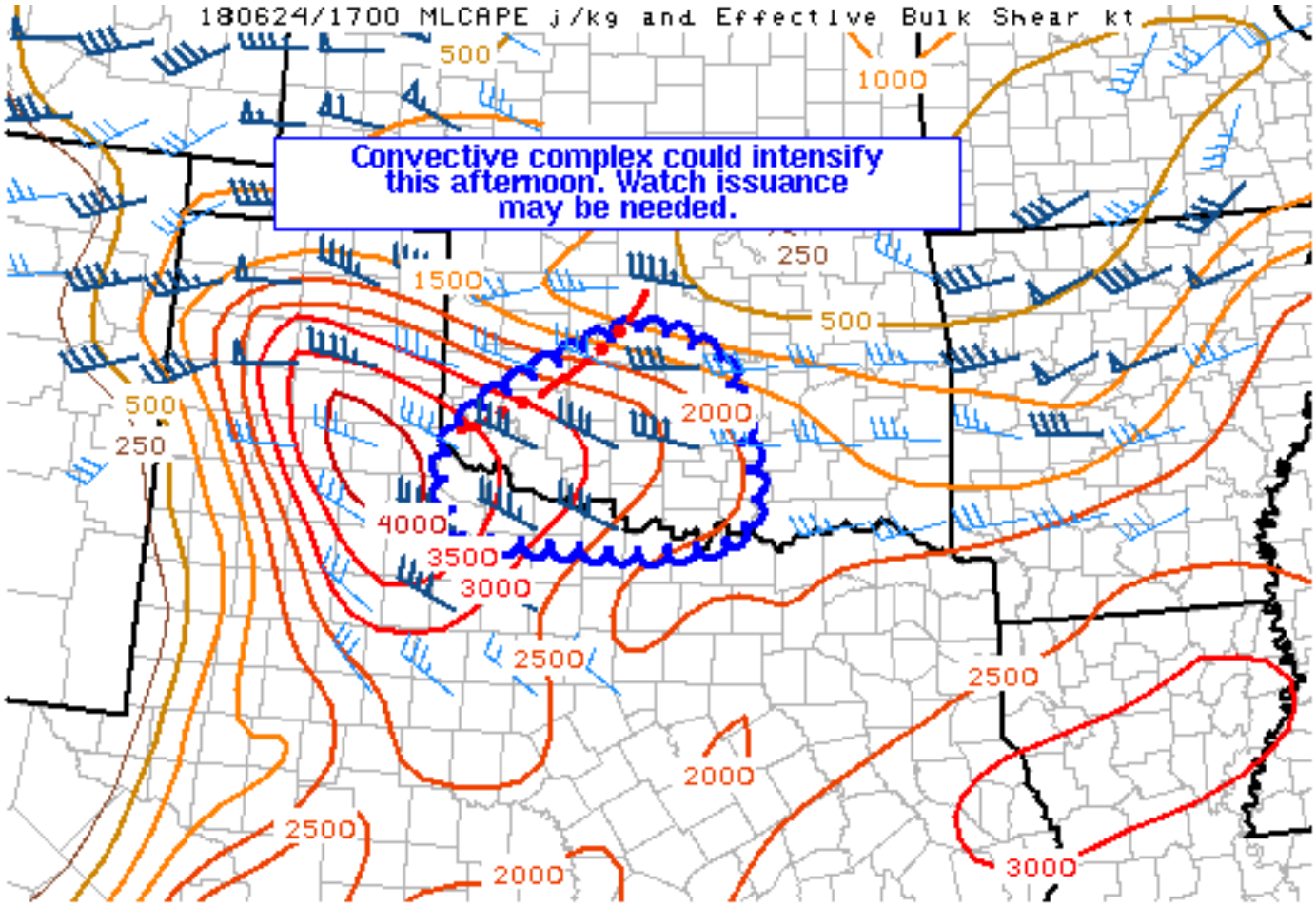

SPC MCD #0857

Mesoscale Discussion 0857
NWS Storm Prediction Center Norman OK
1257 PM CDT Sun Jun 24 2018

Areas affected...Portions of Oklahoma and north Texas

Concerning...Severe potential...Watch possible

Valid 241757Z - 241930Z

Probability of Watch Issuance...40 percent

SUMMARY...Some potential exists for an ongoing thunderstorm complex to intensify and build farther southeast across Oklahoma, with an attendant threat of damaging winds and isolated hail. Watch issuance could be needed.

DISCUSSION...A convective system is building southeast across Oklahoma early this afternoon, and a growing potential for damaging winds and isolated large hail may exist. CAM/hi-res guidance continues to handle this scenario poorly, with a general inability

to maintain robust convection along the mature cold pool across western Oklahoma. Conversely, visible imagery and KFDR ZDR data highlight continued vigorous updraft accelerations along the southwestern flank of this complex. Therefore, it appears convergence along the cold pool remains sufficient to force parcels through dry air/inhibition around 700-850mb (sampled by a 17Z OUN sounding) and achieve sustained vertical accelerations within an EML plume around 700-500mb.

Persistent heating ahead of this boundary, combined with new initiation near an intersection with a residual outflow over southern OK, may gradually increase a threat of damaging winds and hail from northwest Texas into southern/central Oklahoma. Organizational trends with this convective cluster could require watch issuance.

..Picca/Thompson.. 06/24/2018

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

ATTN...WFO...FWD...OUN...

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