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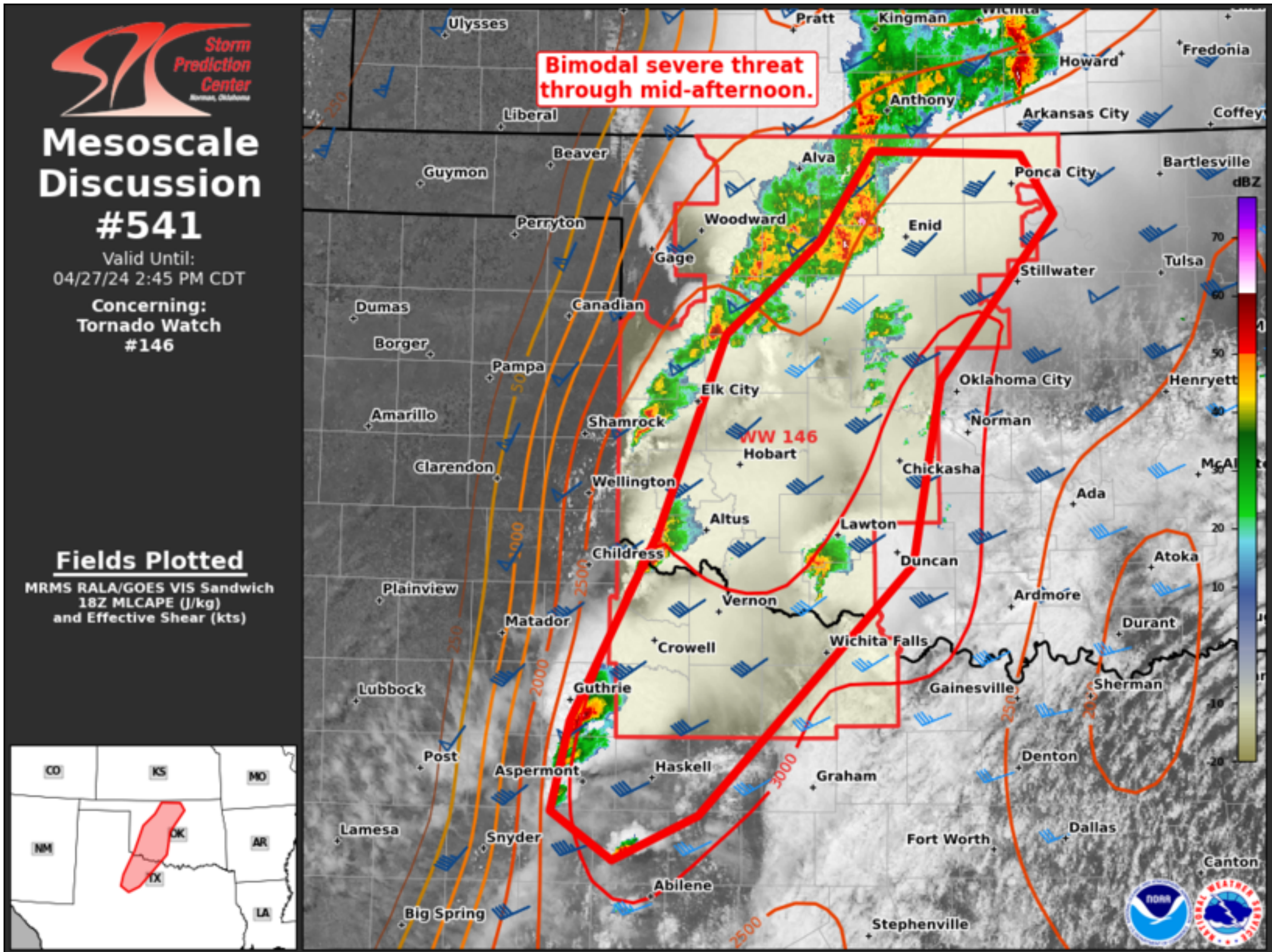
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Mesoscale Discussion 541

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Mesoscale Discussion 0541
NWS Storm Prediction Center Norman OK
0113 PM CDT Sat Apr 27 2024

Areas affected...Northwest TX to north-central OK

Concerning...Tornado Watch [146](#)...

Valid 271813Z - 271945Z

The severe weather threat for Tornado Watch 146 continues.

SUMMARY...Near-term severe threat appears bimodal with discrete supercells from northwest Texas into southwest Oklahoma, and separately in north-central Oklahoma with supercells embedded within a slow-moving cluster.

DISCUSSION...A trio of discrete supercells are ongoing across a part of northwest TX into far southwest OK, just ahead of the pronounced dryline. The relatively most favorable thermodynamic environment is just ahead of these cells. Large hail will be the primary initial threat, but as supercells mature, the tornado threat should correspondingly increase amid 0-1 km SRH of 100-200 m2/s2 per FDR VWP data.

Long-lived cluster with embedded supercell structures has gradually progressed northeastward over northwest into north-central OK. This has left a substantial cold pool in its wake with surface temperatures in the upper 50s to low 60s, minimizing the severe threat to its northwest in the near-term. Given the cluster aligning nearly parallel to the deep-layer shear vector, the primary severe threat will likely be confined along the immediate leading edge of this cluster within small-scale bowing structures approaching the I-35 corridor.

..Grams.. 04/27/2024

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

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