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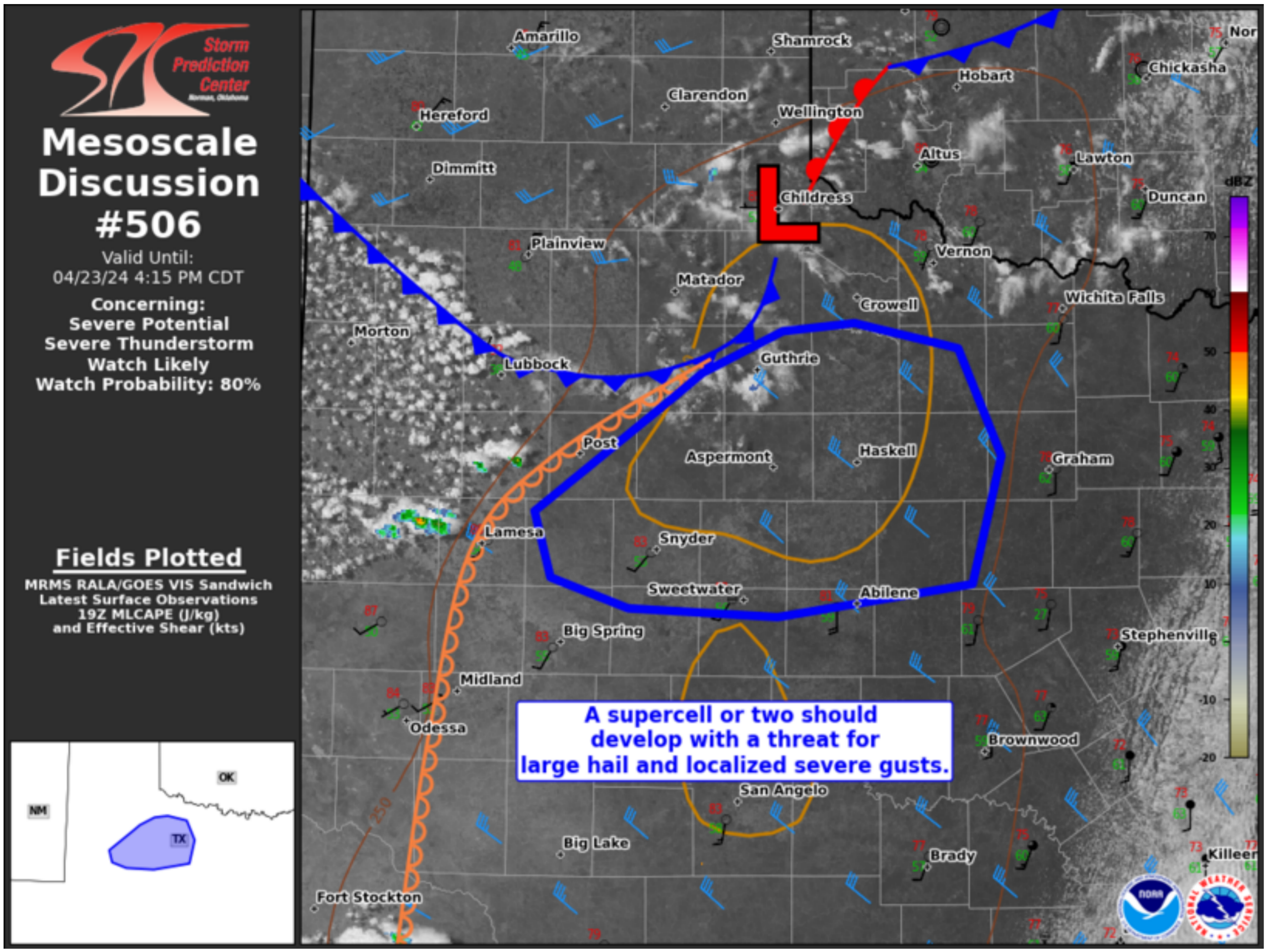
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Mesoscale Discussion 506

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Mesoscale Discussion 0506
 NWS Storm Prediction Center Norman OK
 0239 PM CDT Tue Apr 23 2024

Areas affected...western North to Big Country of TX

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

Valid 231939Z - 232115Z

Probability of Watch Issuance...80 percent

SUMMARY...A supercell or two should develop across a portion of western North Texas and the Big Country during the late afternoon. Large hail of 1.5 to 2.5 inches in diameter and localized severe gusts of 60-70 mph will be possible.

DISCUSSION...A high-based CU and small CB field is increasing in the well-mixed post-dryline air across the TX South Plains. This activity will likely further deepen as it spreads east and impinges on the upper 50s to low 60s surface dew points prevalent across parts of the Big Country and Low Rolling Plains of western North TX. Initially weak low-level flow beneath moderate mid to upper-level west-northwesterlies will favor some elongation and nearly straight hodographs. This should support potential for splitting supercell structures. Midday model guidance is consistent with earlier 12Z runs in simulating a sustained supercell or two into early evening. This will probably remain anchored near the southward-sagging surface front prior to it stalling later this evening. Large hail should be the primary hazard, but locally strong to severe gusts will be possible as well.

..Grams/Smith.. 04/23/2024

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

ATTN...WFO...FWD...OUN...SJT...LUB...MAF...

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