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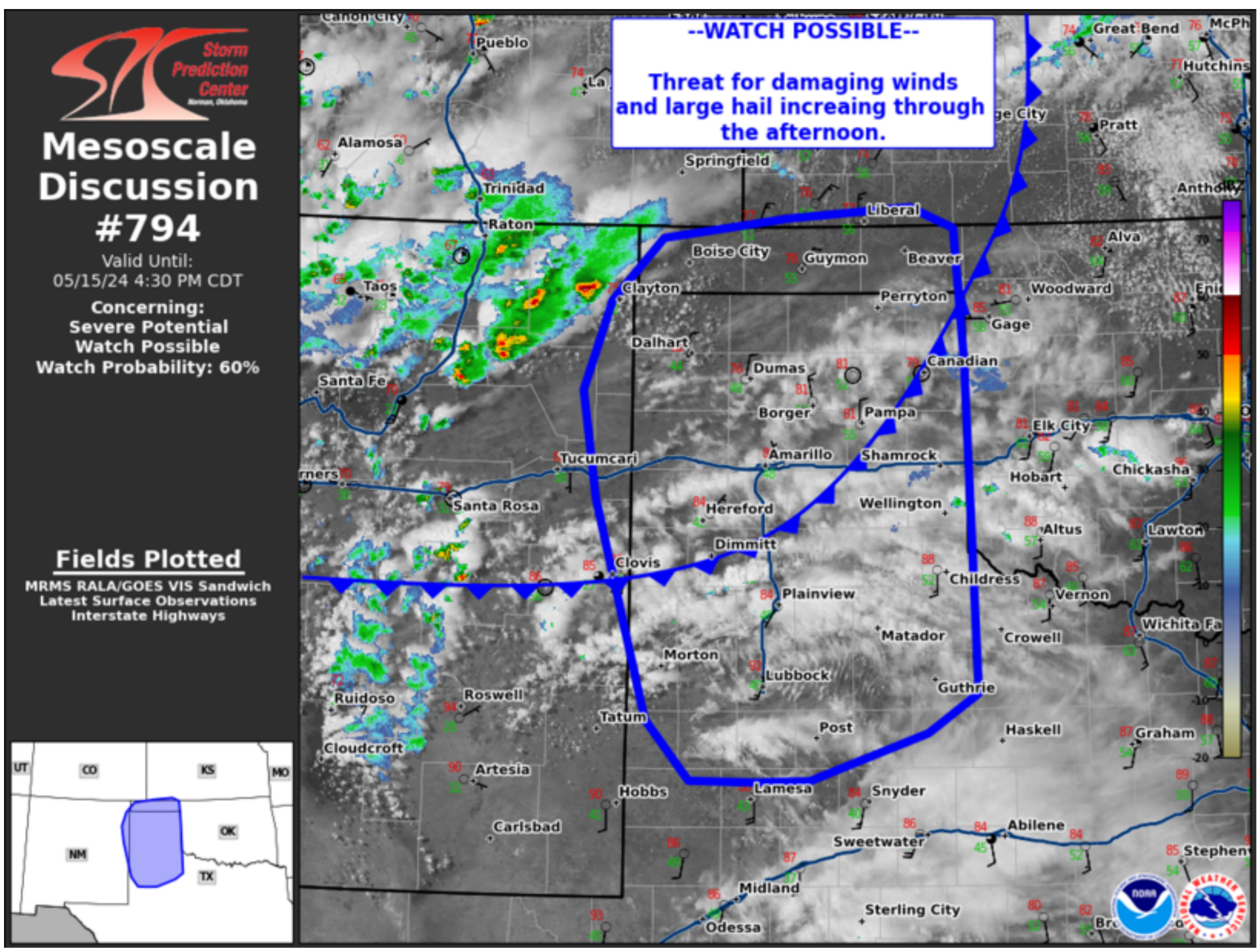
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Mesoscale Discussion 794

< Previous MD Next MD >



Mesoscale Discussion 0794
 NWS Storm Prediction Center Norman OK
 0301 PM CDT Wed May 15 2024

Areas affected...Oklahoma Panhandle...Texas Panhandle...and far eastern New Mexico

Concerning...Severe potential...Watch possible

Valid 152001Z - 152130Z

Probability of Watch Issuance...60 percent

SUMMARY...Watch possible this afternoon as potential for damaging winds and large hail increases.

DISCUSSION...Visible satellite shows areas of cu developing across portions of eastern New Mexico into the Texas and Oklahoma Panhandles. Trends in CAM guidance and morning/afternoon WoFS runs show medium confidence in storm initiation across the Texas Panhandle by 20-21z. Temperatures are in the mid to upper 80s with steep mid-level lapse rates around 8.5-9 C/km. Surface objective analysis shows MLCAPE around 1000-2000 J/kg from the Texas Panhandle into western Oklahoma with mid-level capping remaining, though surface temperatures in the mid 80s should remove the cap per the 19z AMA sounding. High-based convection will initially pose a risk of severe winds, given deeply mixed profiles and large dew point depressions. A watch may be needed prior to 21z.

..Thornton/Thompson.. 05/15/2024

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

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