



Local forecast by "City, St" or "ZIP"

City, St

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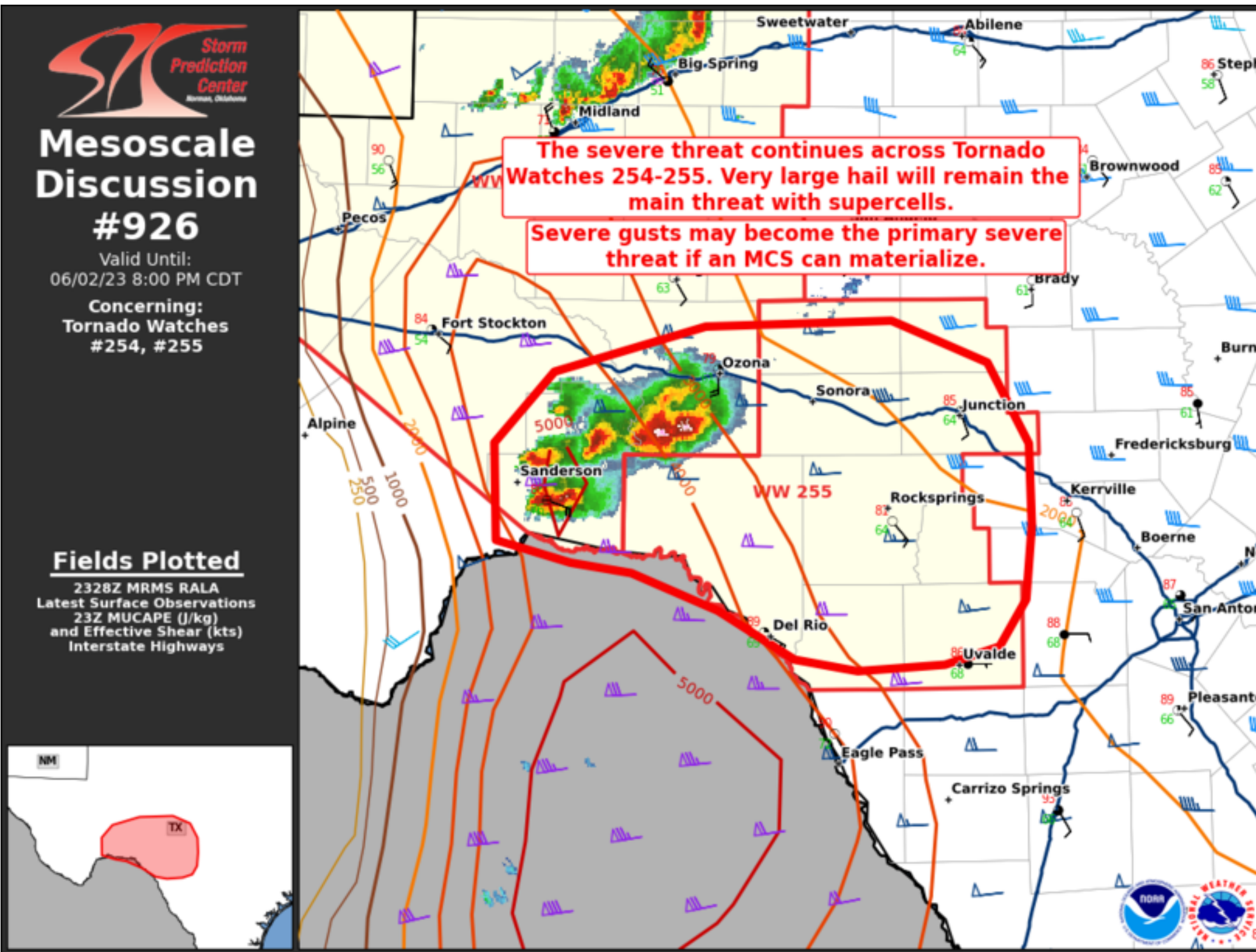
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Mesoscale Discussion 926

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Mesoscale Discussion #926

Valid Until:
06/02/23 8:00 PM CDT
Concerning:
Tornado Watches
#254, #255

Fields Plotted
23Z MRMS RALA
Latest Surface Observations
23Z MUCAPE (J/kg)
and Effective Shear (kts)
Interstate Highways



Mesoscale Discussion 0926
NWS Storm Prediction Center Norman OK
0630 PM CDT Fri Jun 02 2023

Areas affected...portions of southwestern Texas

Concerning...Tornado Watch 254...255...

Valid 022330Z - 030100Z

The severe weather threat for Tornado Watch 254, 255 continues.

SUMMARY...The severe threat continues across Tornado Watches 254-255. Large hail and the possibility of a tornado should remain the primary threat in the short term, though a transition to severe winds is possible as storms grow upscale into an MCS.

DISCUSSION...MRMS mosaic radar imagery depicts a compact cluster of supercells with a history of 3 inch diameter hail just north of the Rio Grande. Some of the latest MRMS mosaics depict 50 dBZ cores extending up to 50 kft with 2-3 inch MESH cores. These storms continue to thrive atop a mixed, very buoyant boundary layer, with 70+ F surface dewpoints overspread by 7-8 C/km lapse rates from the surface to 500 mb, contributing to over 4500+ J/kg of deep, wide SBCAPE profiles. Furthermore, a 30+ kt southeasterly low-level jet is being overspread by 50+ kt 500 mb speed max, resulting in modestly curved, but very long hodographs, supporting the 3+ inch diameter hail (when considering the deep/wide CAPE profiles).

Current thinking is that very large hail and an occasional instance of strong low-level rotation (possibly a tornado) will remain a concern as long as supercell structures can remain relatively discrete. However, hydrometeor loading and evaporative cooling should support supercell cold pool mergers and subsequent upscale growth into an MCS. Given the intense cores, 1+ inch diameter hail should remain a threat even after MCS development. However, intense cold pool development will support severe wind gusts as the main threat with any MCS that materializes.

..Squitieri.. 06/02/2023

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

ATTN...WFO...EWX...SJT...MAF...

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30349935 29929935 29549938 29299954 29219987 29170037
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