

Local forecast by "City, St" or "ZIP"
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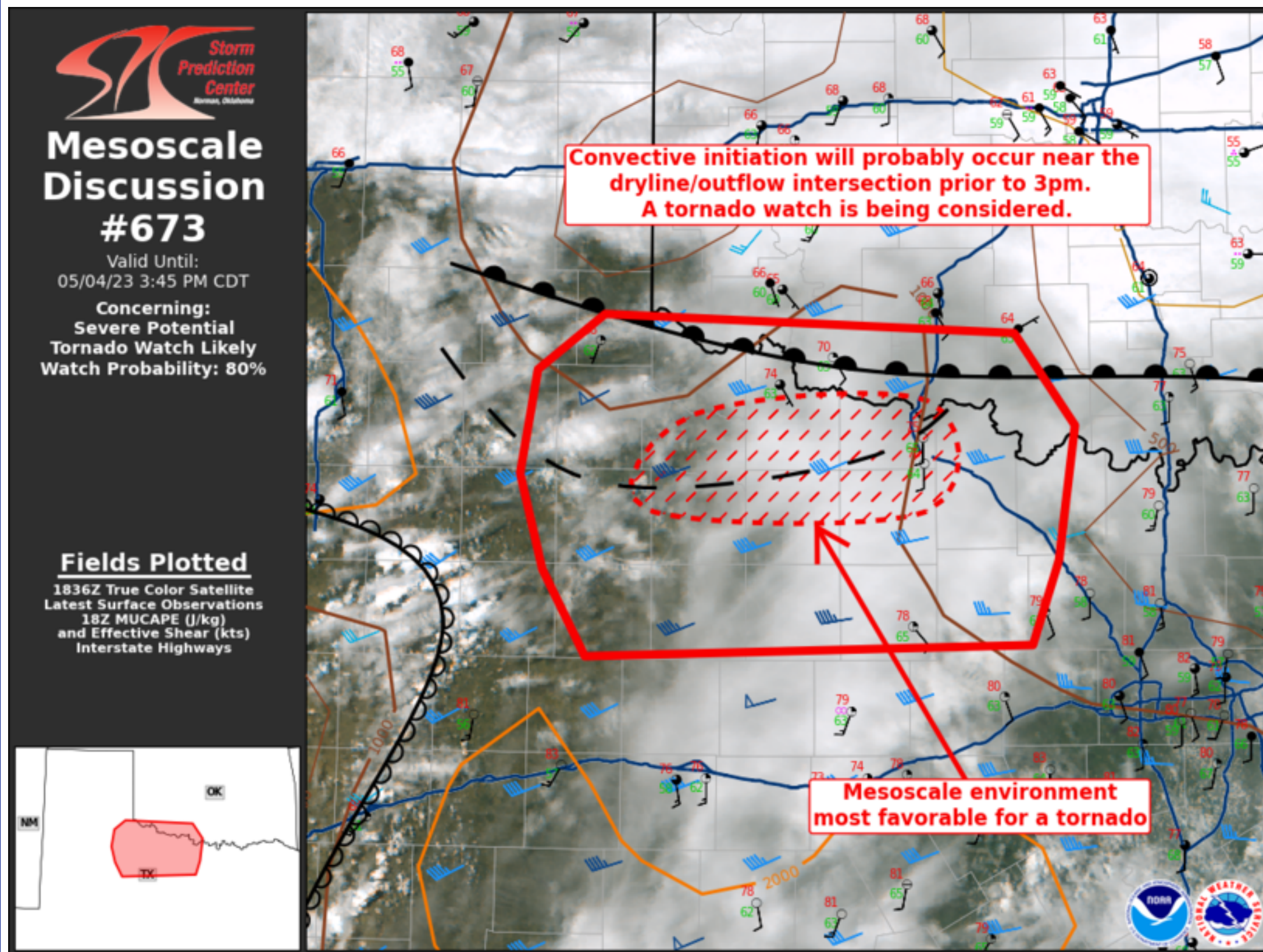
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Mesoscale Discussion 673

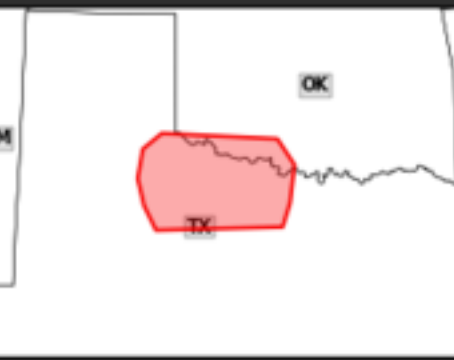
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Mesoscale Discussion #673

Valid Until:
 05/04/23 3:45 PM CDT
 Concerning:
 Severe Potential
 Tornado Watch Likely
 Watch Probability: 80%

Fields Plotted
 1836Z True Color Satellite
 Latest Surface Observations
 18Z MUCAPE (J/kg)
 and Effective Shear (kts)
 Interstate Highways



Mesoscale Discussion 0673
 NWS Storm Prediction Center Norman OK
 0143 PM CDT Thu May 04 2023

Areas affected...northwest TX...far southwest OK

Concerning...Severe potential...Tornado Watch likely

Valid 041843Z - 042045Z

Probability of Watch Issuance...80 percent

SUMMARY...Convective initiation will probably occur near the dryline/outflow intersection prior to 3pm. A tornado watch is being considered for portions of northwest TX and immediately adjacent parts of southwest OK.

DISCUSSION...Visible satellite imagery shows a towering cumulus field centered on Garza County, TX near a dryline bulge. Surface analysis indicates a messy placement of boundaries across northwest TX and southwest OK. The aforementioned dryline extends southwest from near the Caprock into the Pecos Valley. An outflow boundary extends from the southeast TX Panhandle arching southeast into northwest TX to the south of the Red River, while a synoptic warm front/composite boundary extends eastward near the Red River. Surface temperatures north of the outflow/warm front are in the 60s with 70s nestled in between the warm front and outflow boundary. To the south of the outflow boundary, temperatures have warmed into the lower 80s in locations void of denser mid to high-level cloud cover.

Surface dewpoints are in the lower 60s east of the dryline from near San Angelo to north of Abilene. Additional heating will occur as the cirrus shield over western north TX shifts east and upwards of 1500 J/kg MLCAPe is forecast by mid afternoon. Effective shear will support a supercellular mode. Large to very large hail (diameters 1 to 2.5 inches) and a tornado are possible with storms that manage to mature and optimally interact in the vicinity of the west-east oriented low-level boundaries.

..Smith/Thompson.. 05/04/2023

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

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

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 32970034 33360058 33800072 34290063

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