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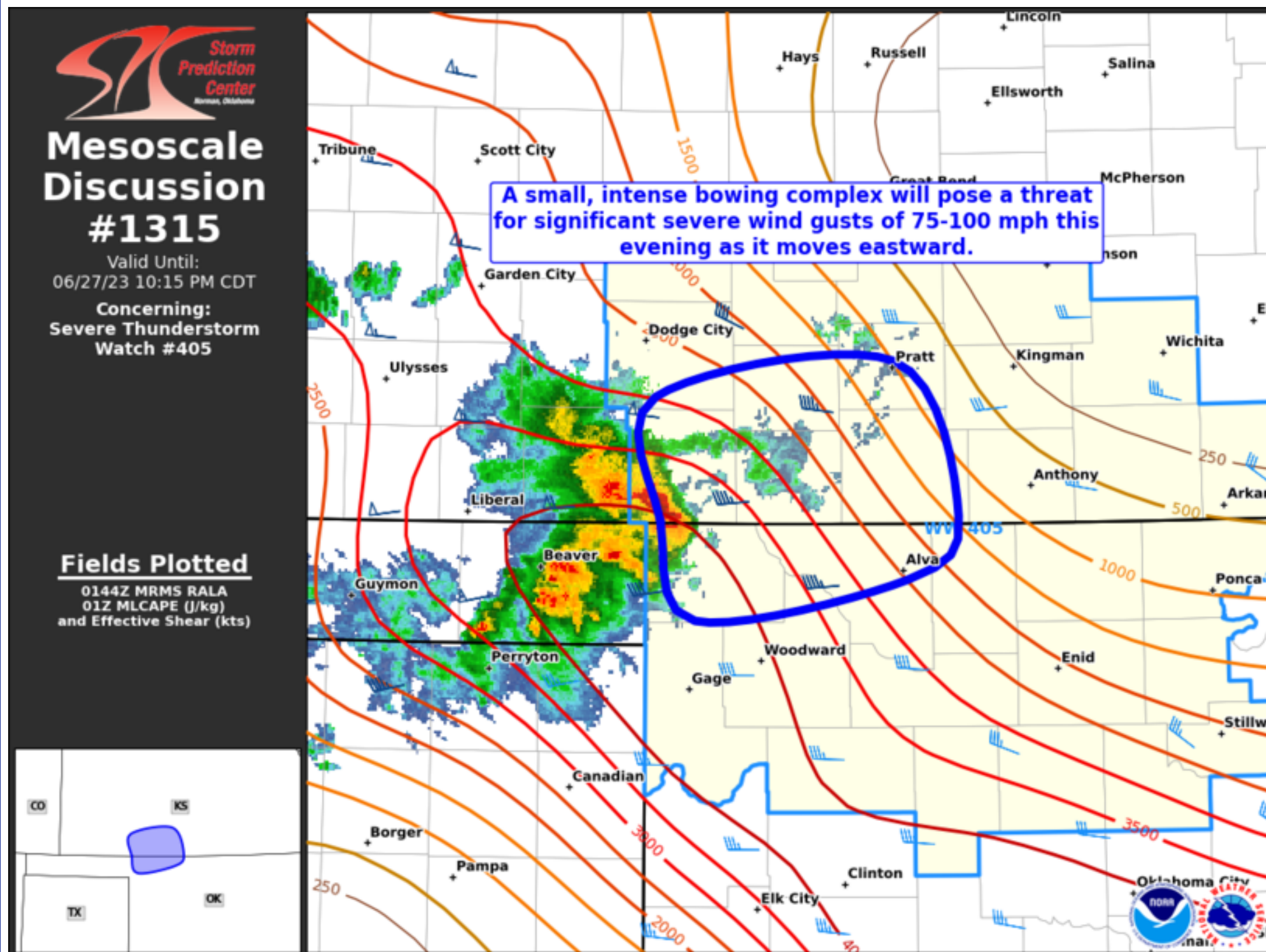
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Mesoscale Discussion 1315

< Previous MD Next MD >

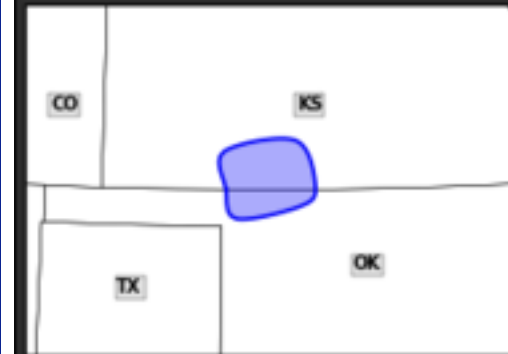


Mesoscale Discussion #1315

Valid Until:
 06/27/23 10:15 PM CDT
 Concerning:
 Severe Thunderstorm Watch #405

Fields Plotted

0144Z MRMS RALA
 01Z MLCAPE (J/kg)
 and Effective Shear (kts)



Mesoscale Discussion 1315
 NWS Storm Prediction Center Norman OK
 0847 PM CDT Tue Jun 27 2023

Areas affected...Portions of southwestern KS and northwestern OK

Concerning...Severe Thunderstorm Watch 405...

Valid 280147Z - 280315Z

The severe weather threat for Severe Thunderstorm Watch 405 continues.

SUMMARY...A small, intense bowing complex will pose a threat for significant severe wind gusts of 75-100 mph this evening as it spreads eastward across southwestern Kansas and northwestern OK.

DISCUSSION...Multiple measured severe wind gusts ranging from 65 mph up to around 100 mph and damage reports have recently occurred in the OK Panhandle with a small bowing cluster now moving into far northwestern OK and southwestern KS. Strong inbound velocities noted from KVNK around 9000 ft AGL along the apex of the bow suggest the development of a pronounced rear-inflow jet. The thermodynamic environment in the near term (next 1-2 hours) should remain quite favorable for significant severe wind gusts of 75-100 mph in a narrow corridor across far northwestern OK into southwestern and south-central KS. Instability gradually decreases with eastward extent into north-central OK and south-central KS along/north of a stalled surface boundary. The potential for significant severe winds farther east into these areas beyond 04Z (11 PM CDT) is less clear owing to the somewhat weaker instability. Still, some severe wind threat will likely persist tonight as the bowing complex develops eastward.

..Gleason.. 06/28/2023

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

ATTN...WFO...OUN...DDC...

LAT...LON 36609974 37009992 37519996 37679873 37029840 36779865
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