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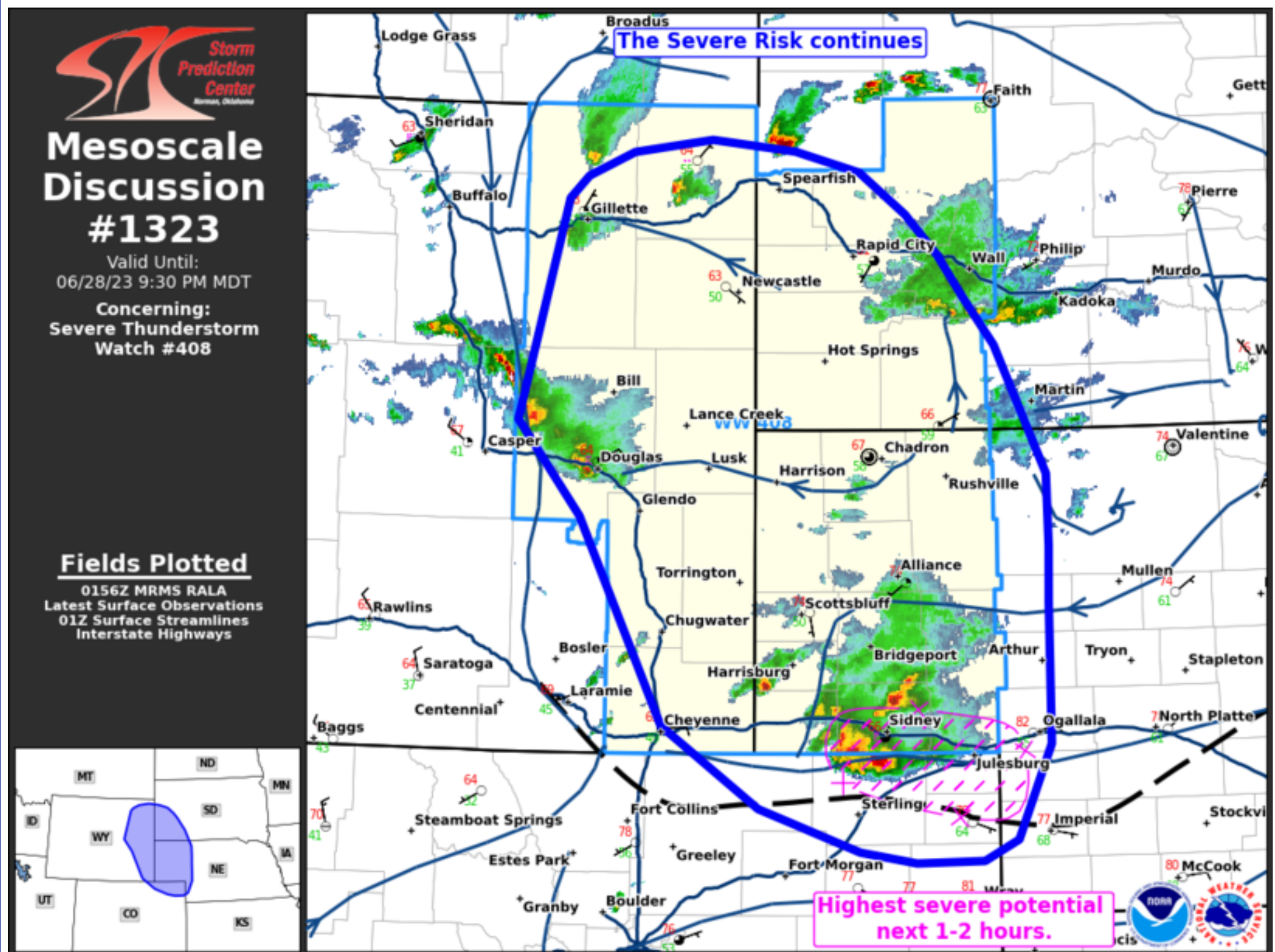
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### Mesoscale Discussion 1323

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**Storm Prediction Center**

**Mesoscale Discussion #1323**

Valid Until:  
 06/28/23 9:30 PM MDT

Concerning:  
 Severe Thunderstorm Watch #408

**Fields Plotted**  
 0156Z MRMS RALA  
 Latest Surface Observations  
 01Z Surface Streamlines  
 Interstate Highways

Mesoscale Discussion 1323  
 NWS Storm Prediction Center Norman OK  
 0859 PM CDT Wed Jun 28 2023

Areas affected...portions of eastern WY...western NE/SD and far northeast CO

Concerning...Severe Thunderstorm Watch 408...

Valid 290159Z - 290330Z

The severe weather threat for Severe Thunderstorm Watch 408 continues.

**SUMMARY**...Ongoing storms will continue to pose a risk for large to very large hail, damaging gusts and a tornado or two this evening. Additional redevelopment across the western portions of the watch area is also possible.

**DISCUSSION**...As of 0155 UTC, a cluster of severe storms, including a recently tornadic supercell, were ongoing mainly across southern portions of WW408. Located along a remnant surface boundary, convection has maintained intensity and should continue to do so for the next few hours. Weak upslope flow and moderate buoyancy/shear will support strong supercellular updrafts capable of large to very large hail, isolated damaging gusts, and a tornado or two. Recent hi-res guidance also suggests some upscale growth of this convection is possible tonight potentially supporting a greater risk of damaging winds. Storms have thus far remained within WW408, but local extensions or an additional watch may be needed later this evening if convection begins to move out of the watch and or persists beyond 0300z.

Farther west across WY/SD, redevelopment has been noted near the north Laramie Range and Pine Ridge Escarpment. Hi-res guidance is supportive of additional storm development/maintenance this evening within a broadly favorable upslope environment of 1000 J/kg of MLCAPE and 45-50 kt of effective shear. Should storms become sustained, a supercellular mode would favor isolated large hail and damaging gusts for a few more hours this evening across portions of eastern WY and western SD.

..Lyons.. 06/29/2023

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

ATTN...WFO...LBF...UNR...GLD...BOU...CYS...

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 41160482 42450552 43050604 44410564 44550549 44700510  
 44780443 44720371 44580316 44320277 44080251 43810229  
 43510203 42720162 42270161 41920161 41040161

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