

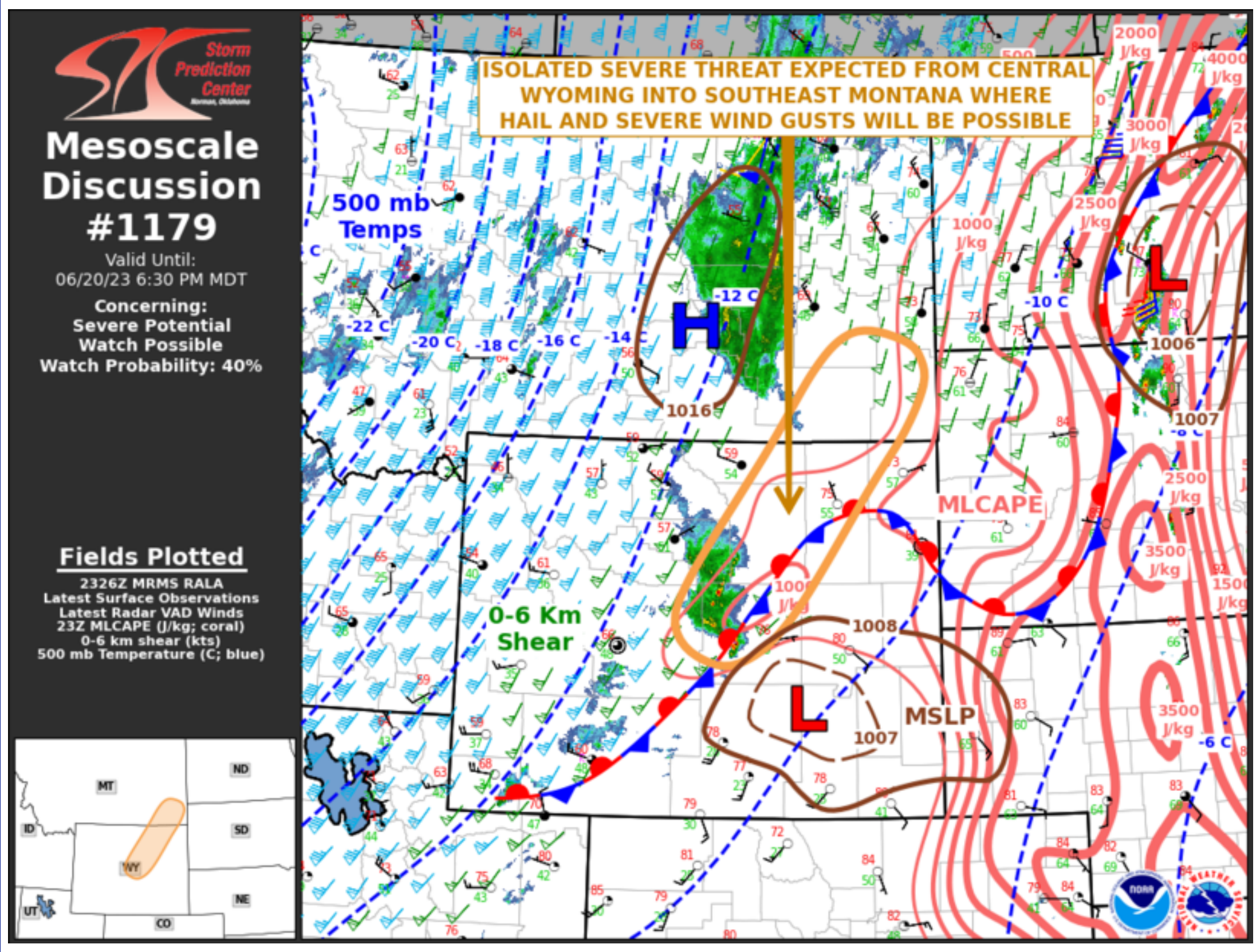
Local forecast by "City, St" or "ZIP"
 City, St Go

Mesoscale Discussion 1179

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Mesoscale Discussion 1179
 NWS Storm Prediction Center Norman OK
 0629 PM CDT Tue Jun 20 2023

Areas affected...Central and Northeast Wyoming...Far Southeast Montana

Concerning...Severe potential...Watch possible

Valid 202329Z - 210030Z

Probability of Watch Issuance...40 percent

SUMMARY...A severe threat is expected to continue over the next couple of hours from central Wyoming to far southeast Montana. Isolated large hail and a few damaging wind gusts will be possible. Weather watch issuance remains possible across the region this evening.

DISCUSSION...The latest high-resolution radar imagery from Cheyenne, Wyoming shows a small cluster of storms across central Wyoming. The storms are located near a southwest-to-northeast quasi-stationary front where low-level convergence is maximized. Near the boundary, surface temperatures are around 80 F and dewpoints are in the mid 50s F. This is contributing to a maximum in instability with MLCAPE estimated near 1000 J/kg. In addition, forecast soundings across central Wyoming early this evening have 0-6 km shear near 55 knots with 700-500 mb lapse rates around 9.0 C/km. This should support the continued development of isolated supercells with large hail. In addition, a wind-damage threat may also develop, aided by large temperature-dewpoint spreads.

..Broyles/Thompson.. 06/20/2023

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

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