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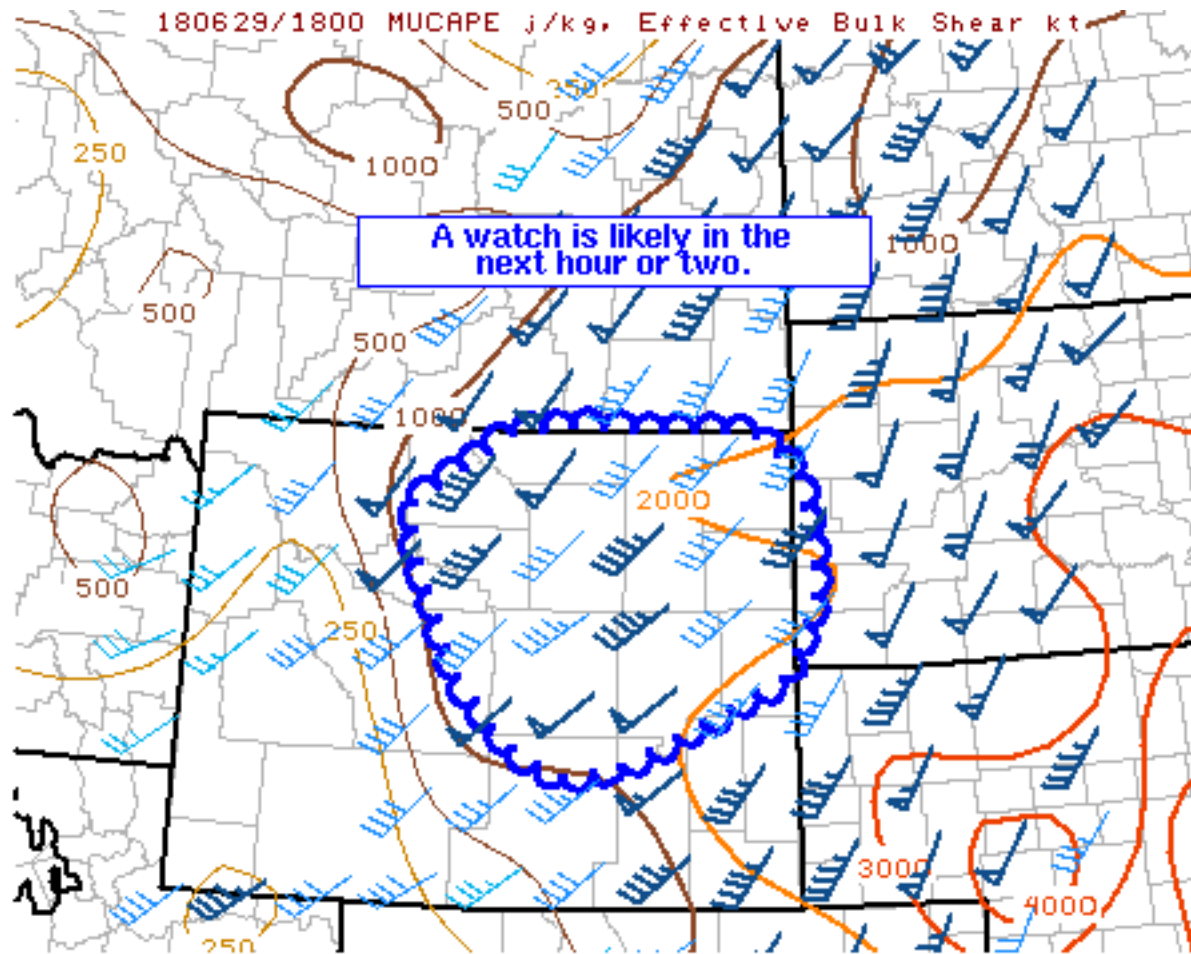
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SPC MCD #0942

Mesoscale Discussion 0942

NWS Storm Prediction Center Norman OK

0130 PM CDT Fri Jun 29 2018

Areas affected...Northeast Wyoming

Concerning...Severe potential...Watch likely

Valid 291830Z - 291930Z

Probability of Watch Issuance...95 percent

SUMMARY...Severe storms are expected across much of northeast Wyoming this afternoon. Large hail, damaging winds, and tornadoes are possible with these storms. A watch will likely be issued in the next hour or two.

DISCUSSION...A few storms have started to form along and to the south of the Bighorn Mountains. Expect storm coverage to increase in the next hour or two as ascent increases ahead of the potent shortwave now entering western Wyoming. Daytime heating and

low-level moisture advection has destabilized much of eastern Wyoming with MUCAPE now around 1500 to 2000 J/kg. Continued heating over the next hour or two may lead to even greater buoyancy ahead of these storms. The RIW 18Z VWP shows 60 to 70 knots of flow around 6 km yielding around 60 knots of 0 to 6 km shear. This instability/shear combination will provide an environment conducive for several supercells with all hazards possible. In addition, a relatively straight hodograph may support splitting supercells. While low-level flow is weak (~10 knots via RAP forecast soundings and the RIW VWP), significant low-level turning will support at least a marginal tornado threat with supercells that can remain discrete before the storms congeal into one or more linear segments. As these storms grow upscale, the threat will likely evolve into a greater damaging wind threat into South Dakota.

..Bentley/Hart.. 06/29/2018

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

ATTN...WFO...UNR...CYS...BYZ...RIW...

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