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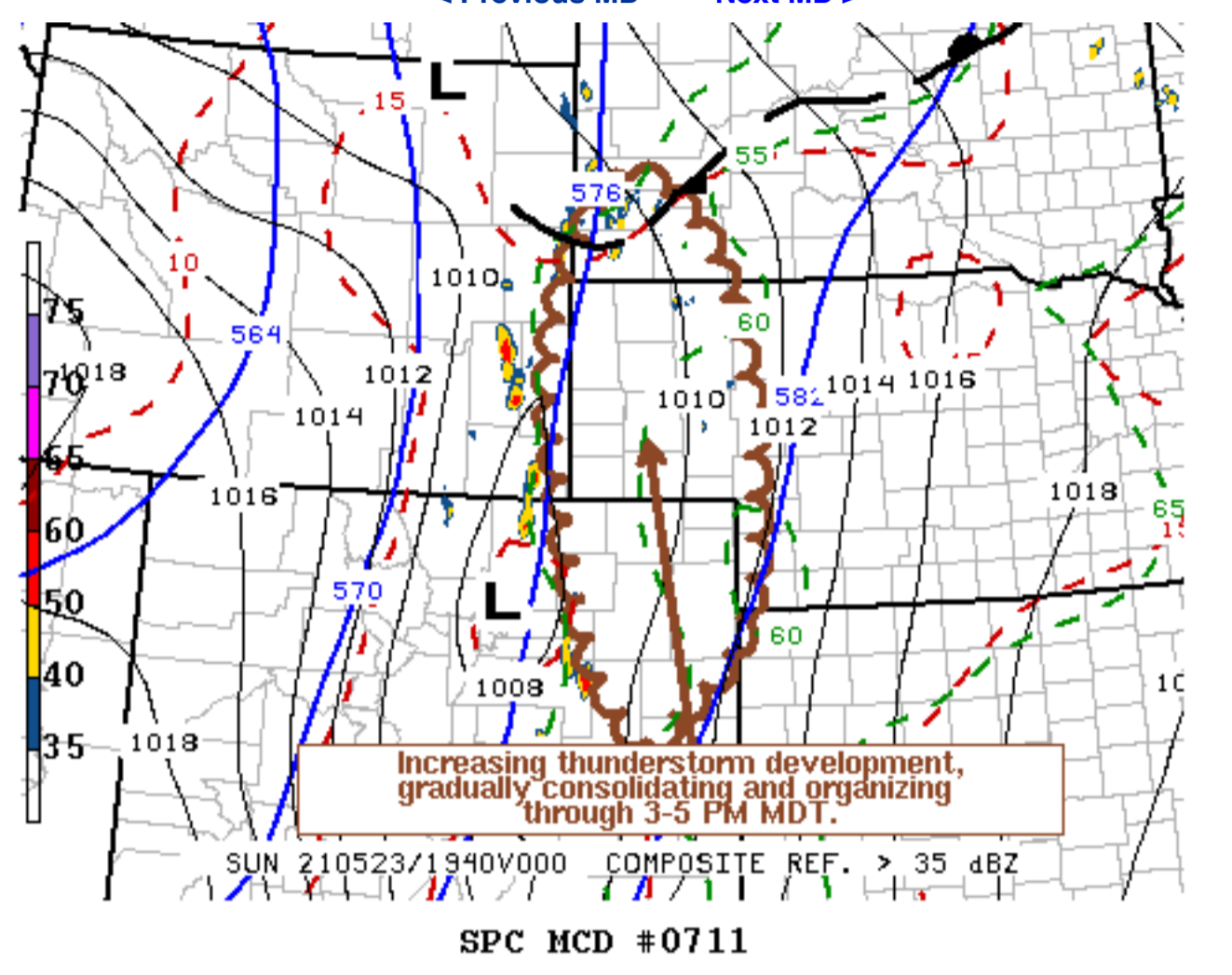
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Mesoscale Discussion 711

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Mesoscale Discussion 0711

NWS Storm Prediction Center Norman OK

0257 PM CDT Sun May 23 2021

Areas affected...Parts of northeastern Colorado and southeastern Wyoming into southwestern South Dakota...the Nebraska Panhandle and northwestern Kansas

Concerning...Tornado Watch [196](#)...

Valid 231957Z - 232200Z

The severe weather threat for Tornado Watch 196 continues.

SUMMARY...Thunderstorms are expected to continue to increase in coverage through late afternoon. This may be accompanied by continuing risk for large hail and tornadoes, but it appears that activity will begin consolidating into an organizing, northeastward and eastward advancing cluster with strong surface gusts becoming the more prominent hazard by 4-5 PM MDT.

DISCUSSION...Scattered strong to severe thunderstorm development is ongoing, particularly within deepening surface troughing near/just west of the Wyoming/Nebraska border, southward to near Limon, CO. This is occurring in the presence of an increasingly less inhibited, moist boundary-layer characterized by moderately large CAPE of 1000-2000 J/kg, and strong deep-layer vertical shear.

As the southeastern-most vigorous mid-level perturbation (within larger-scale mid-level troughing emerging from the Intermountain West) gradually accelerates north-northeastward across the Front Range through 21-23Z, a substantive further increase in thunderstorm development appears likely. A convective outflow generated or enhanced surface front already appears to be surging east of the Laramie Mountains. As convection continues to increase, steepening lower/mid tropospheric lapse rates may support strengthen outflows, which probably will begin to consolidate and contribute to an upscale growing and organizing convective system. This should tend to propagate north-northeastward and eastward with increasing potential for strong surface gusts by early evening.

..Kerr.. 05/23/2021

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

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

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