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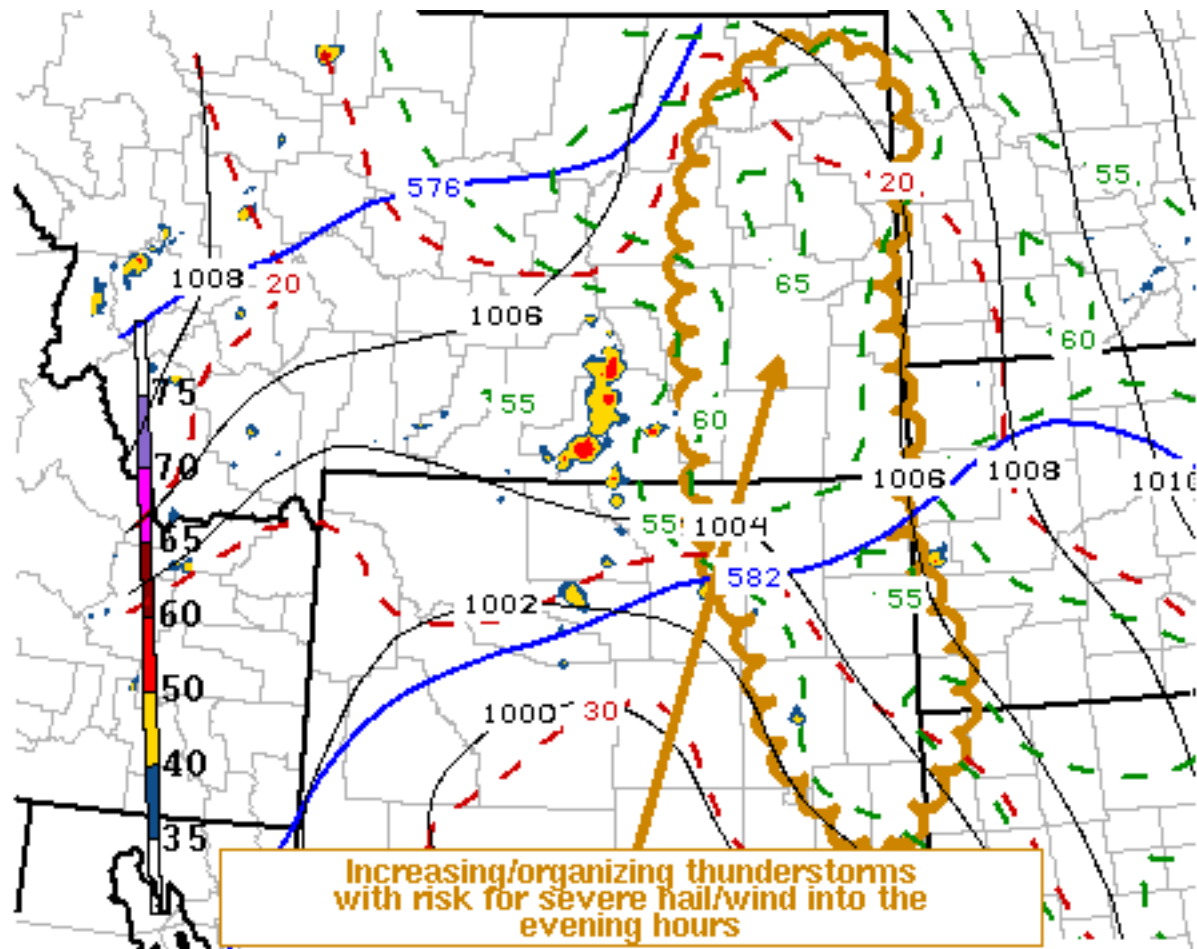
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SPC MCD #0667

Mesoscale Discussion 0667

NWS Storm Prediction Center Norman OK

0616 PM CDT Thu Jun 07 2018

Areas affected...Eastern Montana/northeastern Wyoming and western Dakotas

Concerning...Severe Thunderstorm Watch [161](#)...

Valid 072316Z - 080115Z

The severe weather threat for Severe Thunderstorm Watch 161 continues.

SUMMARY...Risk for thunderstorms capable of producing severe hail and wind will continue to increase across the northern High Plains through early evening. An additional watch is possible across the remainder of eastern Montana/western North Dakota within the next hour or two.

DISCUSSION...Vigorous thunderstorm development has been occurring

across the Big Horn Basin, and particularly within low-level upslope flow to the north/northeast, with more widely scattered/discrete activity now well underway across the higher plains of eastern Wyoming. Initiation of storms may also be underway near the surface trough across eastern Montana, where boundary-layer CAPE is now maximized (2000-3000+ J/kg) with inhibition becoming negligible.

Although deep-layer southwesterly mean flow is weak (on the order of 10-20 kt), modest vertical shear due to veering of winds with height may contribute to increasing organization as convection intensifies further and slowly spreads eastward during the next few hours. This probably will be aided by south/southeasterly low-level jet strengthening near the western Dakotas/Montana border area during the 01-03Z time frame. As this occurs, and convectively generated surface cold pools strengthen and consolidate, the risk for strong surface gusts may become more widespread along a developing gust front. Until then, severe hail and locally strong wind gusts likely will accompany strongest storms.

..Kerr.. 06/07/2018

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

ATTN...WFO...BIS...UNR...CYS...BYZ...GGW...RIW...

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