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Mesoscale Discussion 1289

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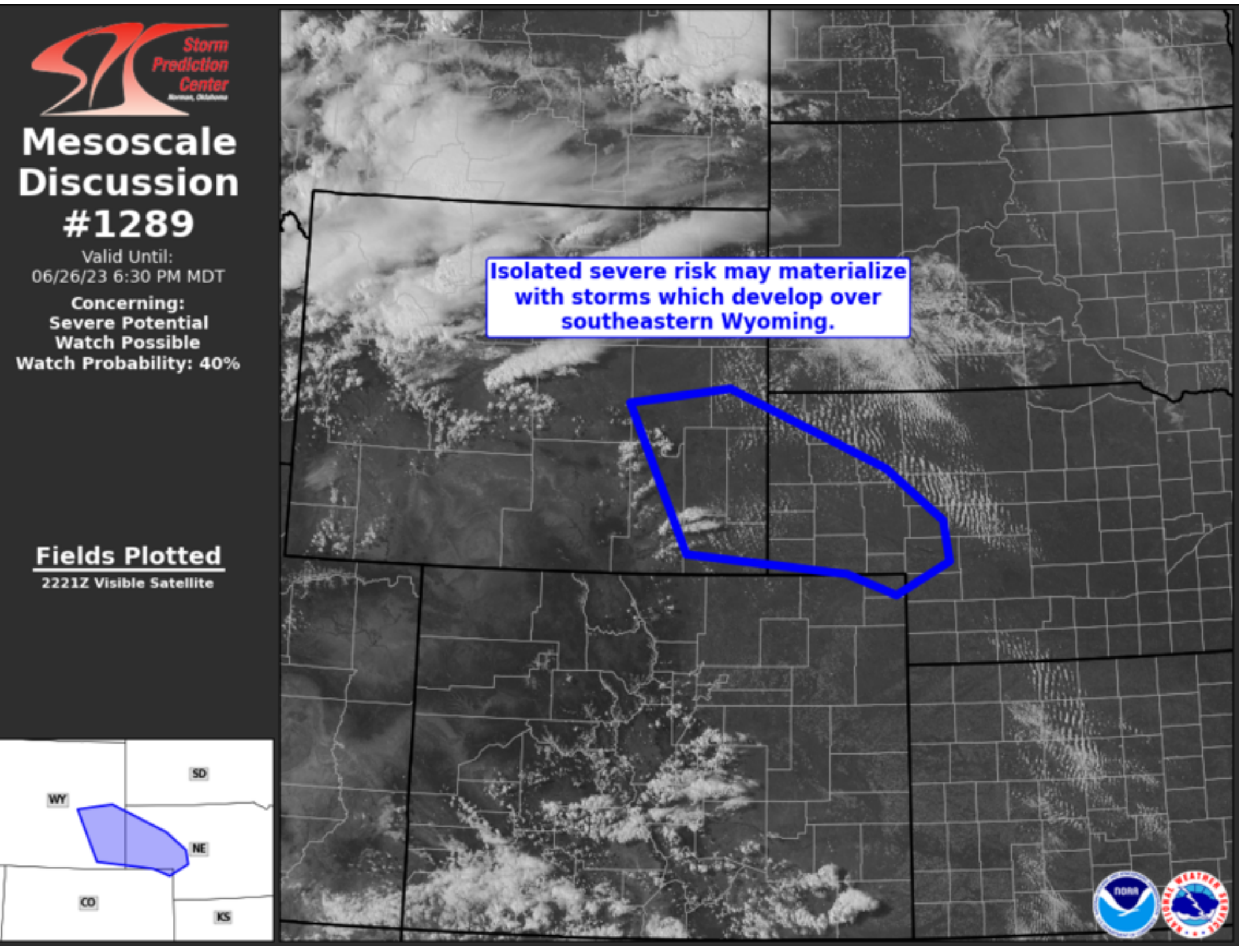
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NWS Storm Prediction Center Norman OK
0525 PM CDT Mon Jun 26 2023

Areas affected...southeastern Wyoming into the Nebraska Panhandle

Concerning...Severe potential...Watch possible

Valid 262225Z - 270030Z

Probability of Watch Issuance...40 percent

SUMMARY...A few storms are expected to develop over the Laramie Range and shift east-southeastward with time. Watch may need to be considered pending eventual storm coverage.

DISCUSSION...Latest visible satellite loop shows multiple attempts at storm development over the Laramie Range, with indications that lightning may commence in the next half hour to hour. Just east of the terrain, daytime heating of the relatively moist boundary layer (generally upper 50s dewpoints) has resulted in development of 1000 to 1500 J/kg mixed-layer CAPE.

Several CAMs continue to indicate a couple of supercells evolving across southeastern Wyoming, and then shifting southeastward across the Nebraska Panhandle, and persisting into mid-evening before diminishing. With low-level southeasterly flow indicated via surface analysis, beneath an anticyclonic belt of mid-level flow around 40 kt, this supports the idea of a couple of supercell storms possibly moving off the higher terrain early this evening, with attendant risk for large hail and a damaging gust or two. While the isolated nature of convection currently anticipated may mitigate need for WW issuance, we will continue to monitor the area for signs of development that may prove sufficient for WW consideration.

..Goss/Guyer.. 06/26/2023

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

ATTN...WFO...LBF...BOU...CYS...RIW...

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