

Concerning...Severe potential...Watch possible

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Valid 222038Z - 222145Z

Probability of Watch Issuance...40 percent

SUMMARY...Isolated/high-based storm development may occur over the next hour or so, posing some risk for locally gusty/damaging winds and hail. Due to anticipated/isolated nature of the risk, WW issuance is not anticipated in the short term. Greater risk, farther to the north and east, is expected to evolve 2 to 3 hours from now, which would likely require WW consideration.

DISCUSSION...Latest surface analysis places a low west of Cheyenne, with a warm front arcing northeastward across northern portions of the Nebraska Panhandle and into southern South Dakota. Meanwhile, a dryline has mixed eastward into western Nebraska/western Kansas, with surface dewpoints in the teens and 20s to the west of this boundary.

Visible satellite shows development of high-based cumulus over the higher terrain west and southwest of Cheyenne, but with more substantial cumulus congestus developing at the top of a deep/well-mixed boundary layer over eastern Laramie/southern parts of Platte and Goshen Counties. High-based cumulus is also developing in northern portions of the Nebraska Panhandle at this time, in the vicinity of the warm front.

While instability remains limited across this area, continued cumulus development may lead to initiation of a high-based storm or two across this area. With veering/increasing flow with height yielding 0-6km shear supportive of organized/rotating storms, gusty/locally damaging winds would be possible, with this potential aided by the deep/dry sub-cloud layer. Additionally, hail would be possible, given greater instability with northeastward extent along the warm front.

Later, storms are expected to develop farther northeast into portions of South Dakota near/north of the warm front, initially in the vicinity of the Black Hills. With access to more unstable air, these storms would likely pose more prolific severe risk, and likewise warrant more serious WW consideration.

..Goss/Guyer.. 04/22/2022

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

ATTN...WFO...ABR...LBF...UNR...CYS...

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