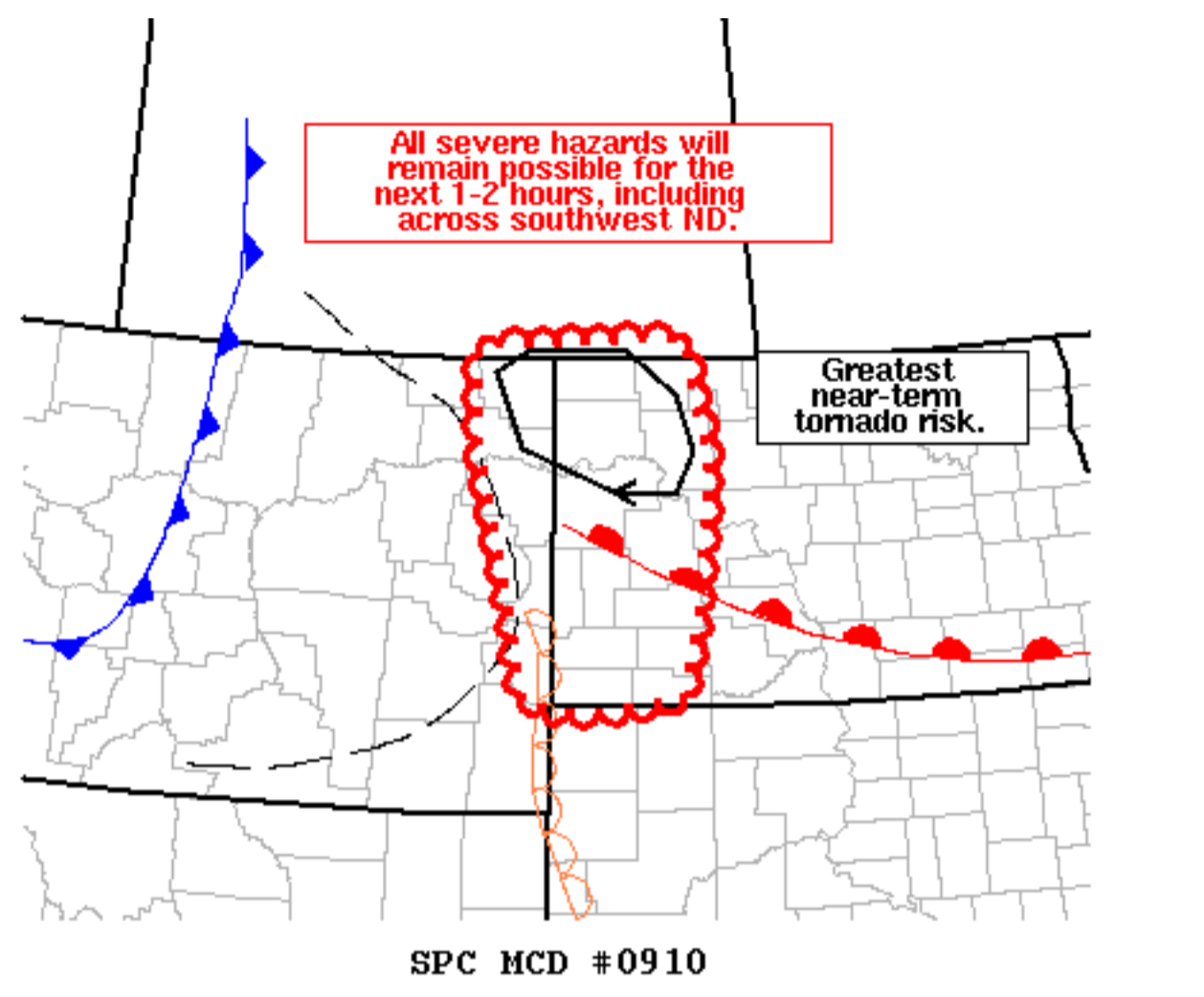


Local forecast by
"City, St" or "ZIP"City, St

Mesoscale Discussion 910

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Mesoscale Discussion 0910
NWS Storm Prediction Center Norman OK
0536 PM CDT Thu Jun 10 2021

Areas affected...Western North Dakota and far eastern Montana

Concerning...Tornado Watch [251](#)...

Valid 102236Z - 110030Z

The severe weather threat for Tornado Watch 251 continues.

SUMMARY...All hazards will remain possible for the next 1-2 hours, including across southwest North Dakota. The greatest near-term tornado risk will likely remain across northwest North Dakota where stronger low-level shear is noted.

DISCUSSION...Radar imagery from KGGW and KMBX show discrete to semi-discrete cells continuing to mature along the surface trough/dryline across far eastern Montana. Several severe hail reports have been noted in the past hour with this activity, as well as organized mesocyclones with the stronger, more persistent storms. Additionally, new convection is attempting to develop along the dryline across southwest North Dakota. Although low-level winds are slightly more veered out of the south across this region, effective SRH values near 100-200 m²/s² will support a tornado risk with any discrete storm that can develop.

Further north, more easterly flow to the north of a diffuse surface warm front is supporting higher ESRH values up to 400 m²/s² per recent RAP Mesoanalysis estimates. This favorable shear, coupled with moderate to high instability owing to surface dewpoints in the mid 60s, is supporting STP values between 3-4 within a narrow zone across northwest ND. This region may see the highest tornado potential in the near-term as storms move from eastern MT into this environment. The duration and coverage of the tornado threat remains somewhat uncertain given boundary-parallel mid-level flow and the potential for storm interactions. However, more zonal effective shear vectors across western ND may continue to support discrete modes as storms progress eastward this evening.

..Moore.. 06/10/2021

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

ATTN...WFO...BIS...UNR...BYZ...GGW...

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46030237 45930318 45890386 45950439 47100466 48260502

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