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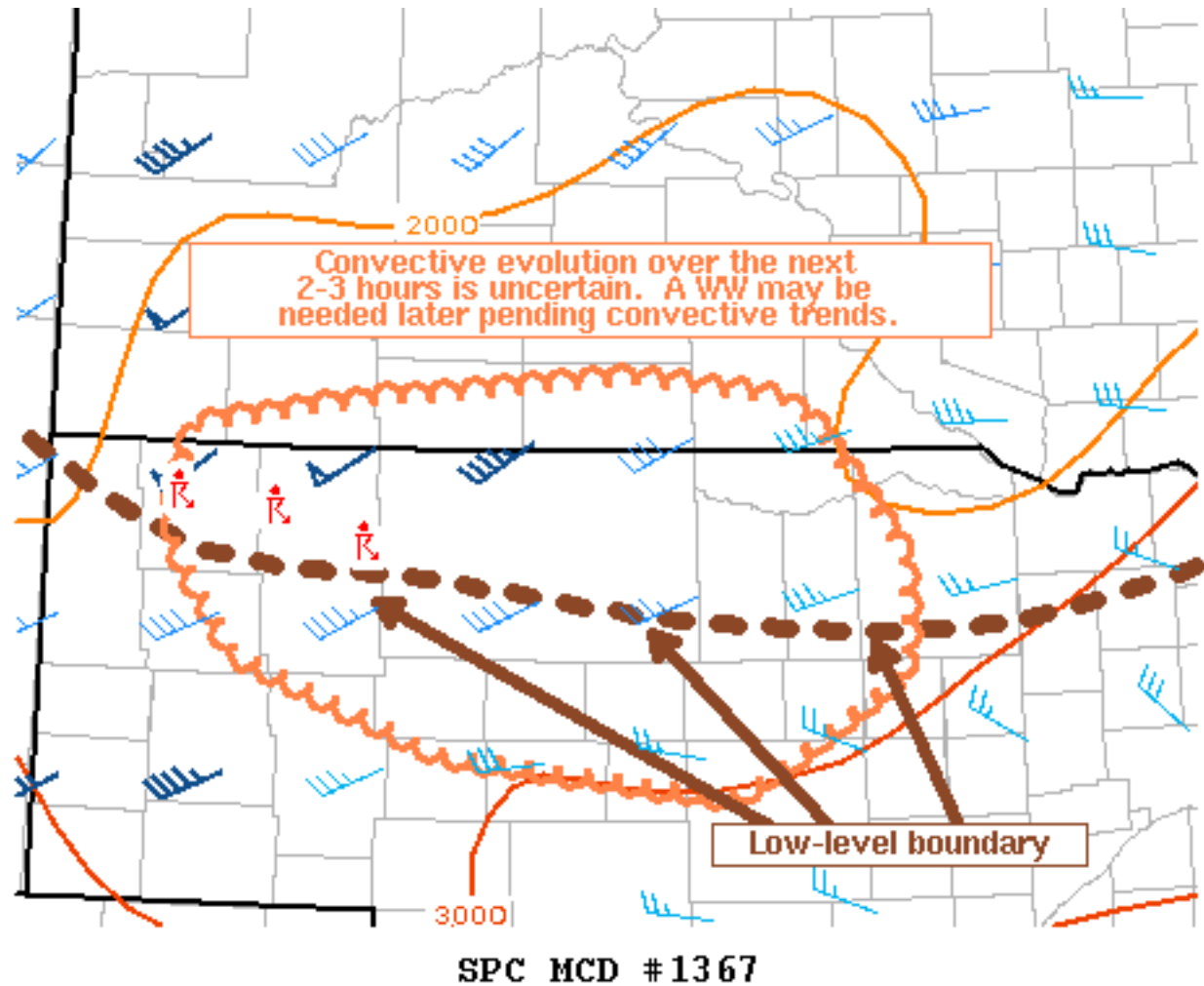
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Mesoscale Discussion 1367

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Mesoscale Discussion 1367

NWS Storm Prediction Center Norman OK

0336 PM CDT Thu Jul 04 2019

Areas affected...northern Nebraska and southern South Dakota

Concerning...Severe potential...Watch possible

Valid 042036Z - 042230Z

Probability of Watch Issuance...40 percent

SUMMARY...Convection is increasing near/east of Chadron, though convective trends over the next 2-3 hours are uncertain.

DISCUSSION...Recent convection has intensified about 10-40 miles east of CDR over the past half hour. This is likely due to sustained surface convergence along a weak remnant frontal boundary and minimal inhibition above that convergence. These storms are in a weakly to moderately unstable environment (around 2500 J/kg MUCAPE), with a weak easterly component to surface flow beneath



25-30 kt mid-level flow contributing to shear profiles marginally favorable for organization and even updraft rotation. The lack of any forcing aloft lends some doubt to any continued expansion of convection in the discussion area, with any surface-based development likely tied to convergence along the front. Any storm that can root near the boundary and ingest attendant vorticity may obtain brief updraft rotation and pose a very isolated tornado risk. Otherwise, large hail and damaging wind gusts will be the greatest risk with this activity, although the bulk of the severe threat may hold off until much later in the evening.

..Cook/Grams.. 07/04/2019

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

ATTN...WFO...FSD...LBF...UNR...CYS...

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41509993 41690169 42100290 42590328 42770325 43050317

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