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SUMMARY...Severe/tornado risk remains evident across Tornado Watch 163, with greatest short-term tornado potential indicated within a small corridor near the OK/MO/AR border intersection.

DISCUSSION...Latest radar loop indicates a broken band of supercell storms ongoing near the advancing surface cold front, from southwestern Missouri to south-central Oklahoma. The airmass ahead of this band remains moderately unstable, with mid 60s dewpoints beneath very steep lapse rates aloft yielding 3000 to 4000 J/kg mixed-layer CAPE.



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> While deep-layer shear -- owing to veering/increasing flow with height -- is favorable for strongly rotating updrafts given the thermodynamic environment, low-level shear remains somewhat weak in most areas. As such, the main risk remains very large hail, and locally damaging RFD outflow winds.

However, a locally enhanced area for tornado potential over the next 1-2 hours appears to exist across far northeastern OK, far southwestern MO, and into northwestern AR. Here, a northwest-to-southeast outflow boundary is evident, and it appears that a supercell now moving southeastward into McDonald County Missouri may move along this boundary -- and the associated zone of enhanced vorticity. If this occurs, this storm -- or another cell or two just to the southwest -- may pose locally greater tornado potential within the narrow corridor in the vicinity of the boundary.

..Goss.. 05/04/2020

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

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