



Storm Prediction Center

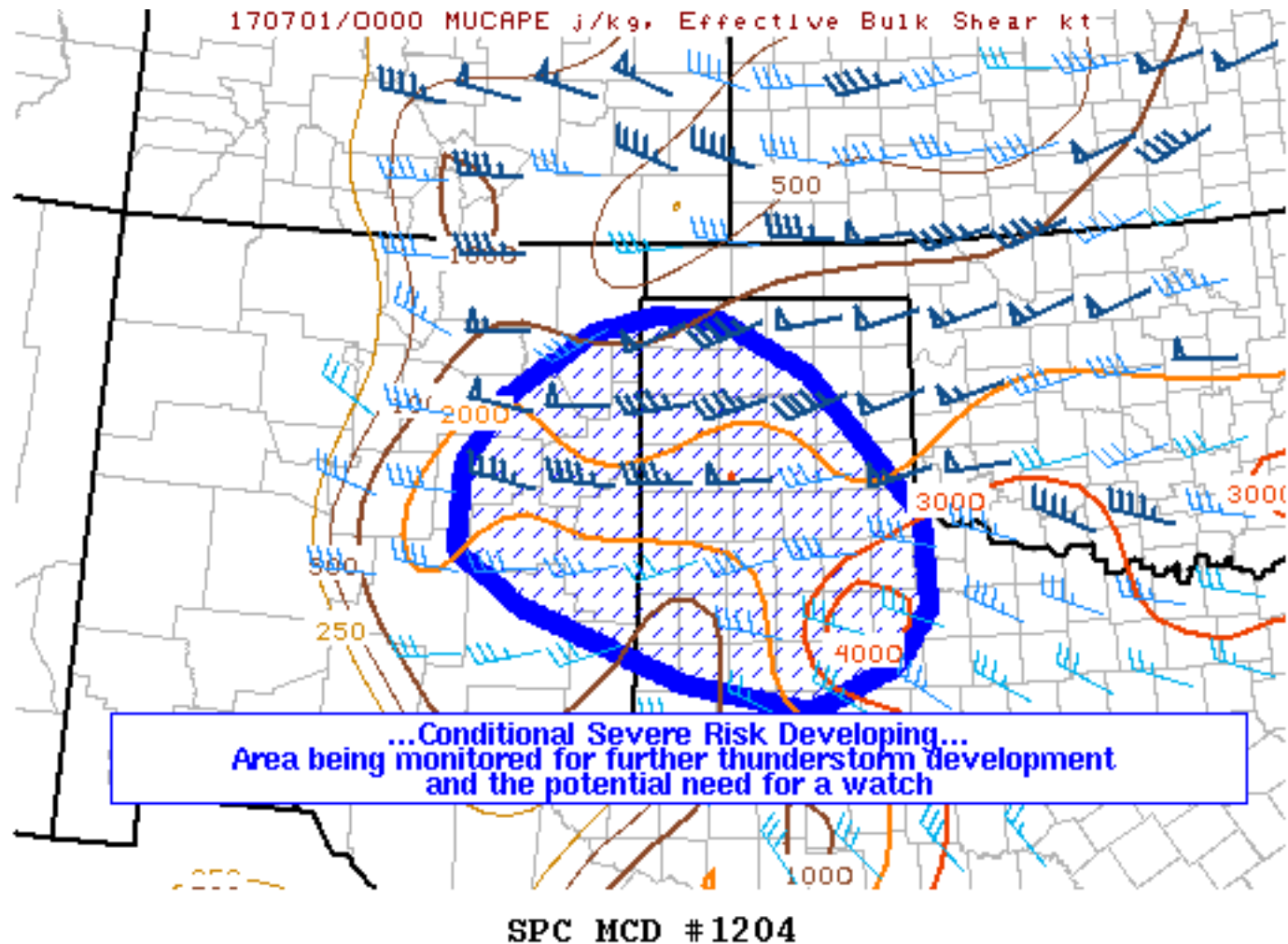

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Mesoscale Discussion 1204

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Mesoscale Discussion 1204

NWS Storm Prediction Center Norman OK

0751 PM CDT Fri Jun 30 2017

Areas affected...Texas Panhandle and portions of northeast New Mexico

Concerning...Severe potential...Watch possible

Valid 010051Z - 010245Z

CORRECTED FOR LINE TYPE AND LAT/LONS

Probability of Watch Issuance...60 percent

SUMMARY...Ongoing thunderstorms across northeast New Mexico are expected to persist into the evening hours. Large hail and strong, gusty winds will be possible with these thunderstorms. Additional thunderstorms may develop farther east/southeast over portions of the Texas Panhandle. Large hail and strong thunderstorm winds would be possible with these activity. The area will continue to be

monitored for a possible Severe Thunderstorm watch.

DISCUSSION...Thunderstorms across northeast New Mexico and extreme southern Colorado will continue into the evening. Here, most-unstable CAPE values between around 1000 J/kg and deep layer shear between 40-50 knots will support thunderstorm updraft organization, leading to a large hail and strong thunderstorm wind risk persisting into the evening. At least initially, the relatively isolated nature of the risk should preclude the need for a severe thunderstorm watch.

Farther east, across portions of the Texas Panhandle a more favorable environment for thunderstorms appears to be in place. The combination of steep mid-level lapse rates (9 C/km) and surface dewpoints in the mid-50s to lower-60s have yielded most-unstable CAPE values on the order of 2000-3000 J/kg. Additionally, deep-layer shear remains on the order of 50 knots. Despite the 00Z/01 July sounding from Amarillo, TX, being capped, numerical guidance, including the 18Z NAM and multiple runs of the ESRL-HRRR, are insistent on the development of additional thunderstorms later this evening across this region.

Latest water vapor imagery suggests a subtle speed max/short-wave trough may be moving east-southeast across southern Colorado. Ascent with this mid-level feature may be the thunderstorm initiating/maintaining mechanism this evening into the overnight. Given the aforementioned favorable environment, a severe thunderstorm watch may become necessary should additional thunderstorm initiation become likely.

Confidence in this scenario is sufficiently high to warrant the introduction of 15% wind and hail probabilities (and a categorical Slight Risk) with the forthcoming 01Z Convective Outlook.

..Marsh/Weiss.. 07/01/2017

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

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