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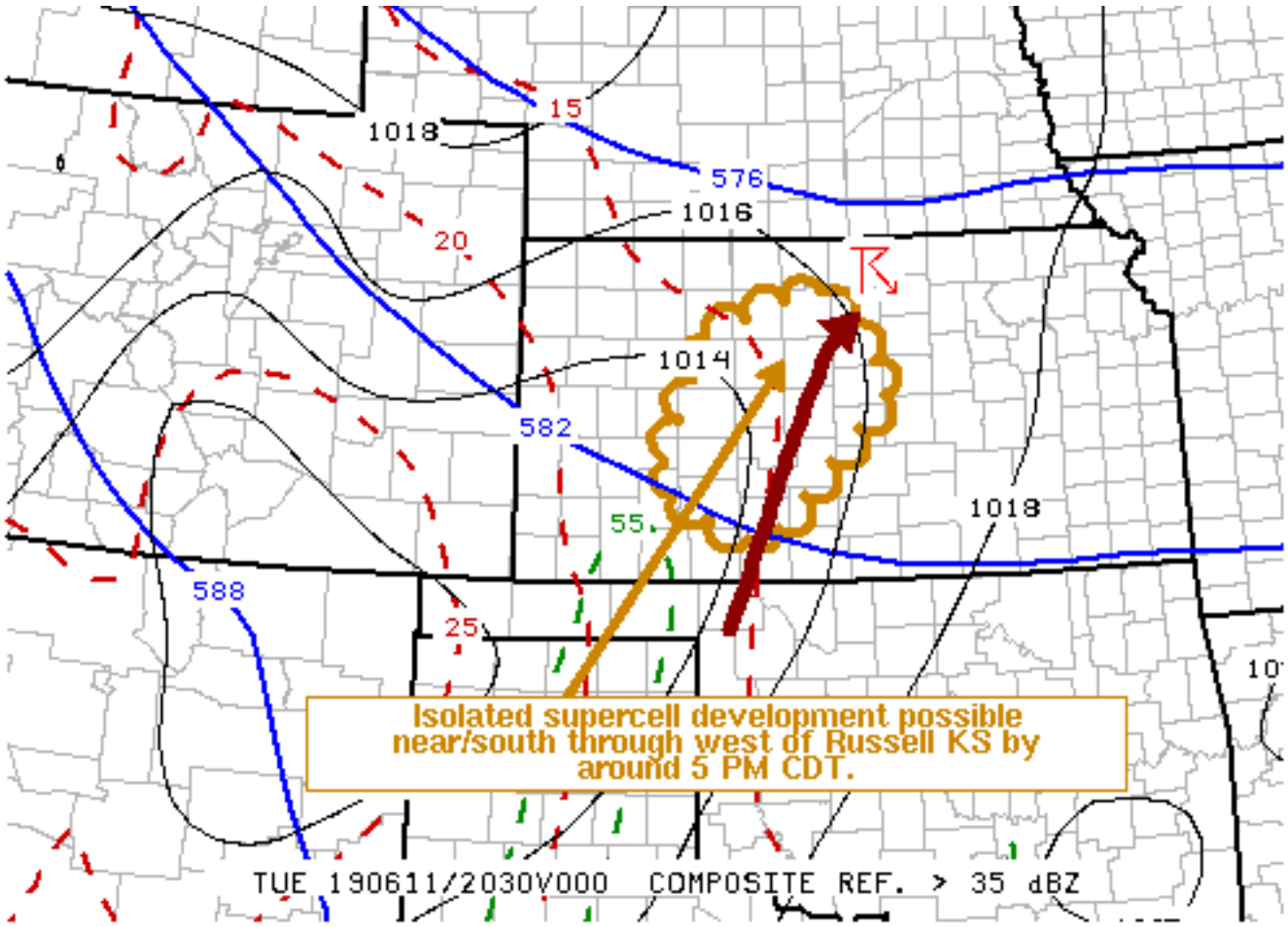
Mesoscale Discussion 1048

< Previous MD Next MD >



SPC MCD #1048

Mesoscale Discussion 1048
NWS Storm Prediction Center Norman OK
0346 PM CDT Tue Jun 11 2019

Areas affected...Parts of western/central Kansas

Concerning...Severe potential...Watch possible

Valid 112046Z - 112245Z

Probability of Watch Issuance...40 percent

SUMMARY...At least isolated supercell development appears possible near, west and south of Russell by around 5 PM CDT, before spreading southward through early evening. It is not yet certain that a severe weather watch will be needed due to initially sparse coverage of storms, but trends are being monitored for this possibility.

DISCUSSION...Modest low-level moisture return within lee surface troughing is contributing to a narrow corridor of boundary layer destabilization, from the Texas/Oklahoma Panhandle region into the

vicinity of the Interstate 70 corridor of Kansas, near/west of Russell. North-northeast of Russell, an area of enhanced warm advection on the nose of a modest to weak southerly 850 mb jet has supported a recent increase in thunderstorm activity just south of the Nebraska/Kansas border, with deepening boundary-layer based convection evident to its southwest.

As a 40-50 kt northwesterly 500 mb jet streak, now digging into and through the central High Plains, continues to approach the region late this afternoon, forcing for ascent coupled with mid-level cooling may weaken inhibition and support at least isolated boundary-layer based storms as early as 22Z. Once this occurs, in the presence of thermodynamic profiles characterized by steep lapse rates and CAPE up to 1000 J/kg, strong deep layer shear will be supportive of supercells. These will be capable of producing severe hail and locally strong surface gusts, with an initial tendency to propagate south-southeastward, then southward, through early evening.

..Kerr/Thompson.. 06/11/2019

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

ATTN...WFO...ICT...GID...DDC...GLD...

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