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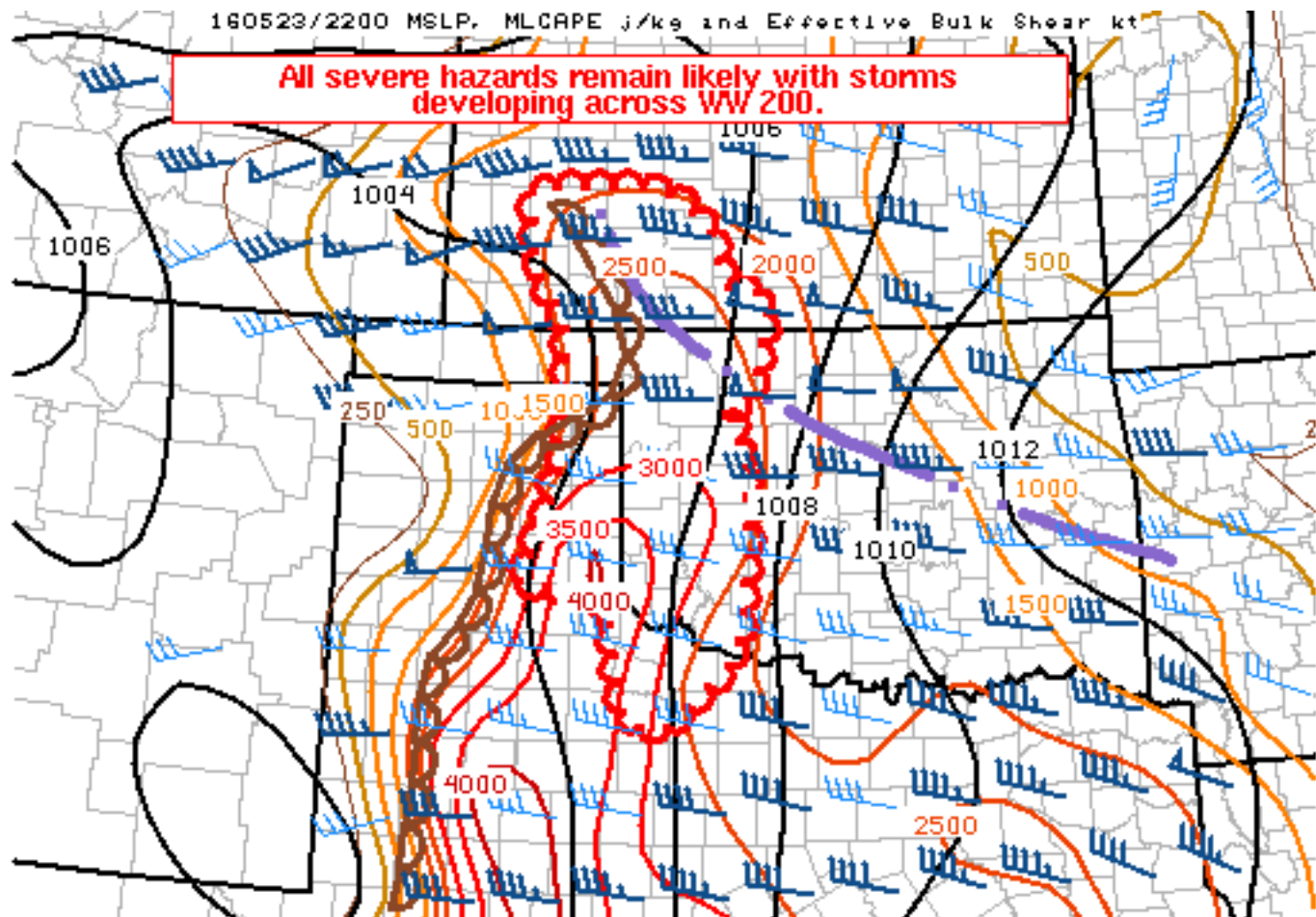
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SPC MCD #0698

MESOSCALE DISCUSSION 0698

NWS STORM PREDICTION CENTER NORMAN OK

0608 PM CDT MON MAY 23 2016

AREAS AFFECTED...SOUTHWEST KS/WESTERN OK/WESTERN NORTH TX AND THE EASTERN TX PANHANDLE

CONCERNING...TORNADO WATCH 200...

VALID 232308Z - 240115Z

THE SEVERE WEATHER THREAT FOR TORNADO WATCH 200 CONTINUES.

SUMMARY...THE ENVIRONMENT ACROSS THIS TORNADO WATCH REMAINS CONDUCIVE FOR NEW STRONG TO SEVERE STORM DEVELOPMENT AND TO SUSTAIN STRONG TO SEVERE STORMS THAT MOVE INTO THIS WATCH AREA. ALL SEVERE HAZARDS REMAIN THREATS. A FEW ADDITIONAL COUNTIES WITHIN THE NORTHERN PORTION OF THE TX PANHANDLE MAY NEED TO BE ADDED TO WW 200 AS THE DRYLINE RETREATS TO THE WEST/NORTHWEST.

DISCUSSION...WATER-VAPOR IMAGERY INDICATED A SHORTWAVE TROUGH MOVING

TO THE ENE THROUGH EASTERN CO...WITH ITS SOUTHERN EXTENT GLANCING THE TX/OK PANHANDLES AND SOUTHWEST KS. LOW-LEVEL WINDS ACROSS THE TX PANHANDLE INTO WESTERN OK AND SOUTHWEST TO SOUTH-CENTRAL KS APPEAR TO BE RESPONDING TO THIS MIDLEVEL TROUGH WITH WINDS BECOMING SOUTHERLY...AND SUBSEQUENTLY ENHANCING EFFECTIVE SRH WITHIN WW 200. TRENDS IN MOSAIC RADAR IMAGERY AND SURFACE OBSERVATIONS ACROSS THE TX PANHANDLE SHOWED THIS PORTION OF THE DRYLINE WAS RETREATING WESTWARD. ALTHOUGH LOW-LEVEL CONVERGENCE IS GREATEST NEAR THIS BOUNDARY...SUPPORTING NEW STORM DEVELOPMENT WITH SOUTHWARD EXTENT IN THE WESTERN PART OF WW 199...THE INITIAL SEVERE STORM THAT MOVED TO THE EAST THROUGH DONLEY COUNTY HAS SINCE WEAKENED. ALTHOUGH THIS STORM WAS MOVING THROUGH THE AXIS OF STRONGEST INSTABILITY /MLCAPE OF 3000-3500 J PER KG/...LOW-LEVEL CONVERGENCE IS MUCH WEAKER EAST OF THE DRYLINE...AND IS LIKELY LIMITING THE SUSTENANCE OF THIS STORM AND ANY OTHER STORMS THAT MOVE TOO FAR EAST OF THE DRYLINE. MEANWHILE...ANY LEFT-MOVING STORMS IN THE NORTHERN EXTENT OF WW 199 WILL HAVE THE POTENTIAL TO BE SUSTAINED AS THEY TRACK TO THE NORTH/NORTHEAST INTO THE EASTERN TX PANHANDLE /THE SOUTHWEST PORTION OF WW 200/.

FARTHER NORTH...A WESTWARD-MOVING CONVECTIVE OUTFLOW WAS BEGINNING TO SLOW IN SPEED AS IT MERGED WITH THE NORTHERN PORTION OF THE DRYLINE IN FAR NORTHWEST OK /HARPER AND WOODS COUNTIES/ AND TO THE VICINITY OF DDC. VISIBLE SATELLITE AND RADAR IMAGERY AND LIGHTNING DATA INDICATED A COUPLE OF CBS HAD DEVELOPED IN NORTHWEST WOODS COUNTY OK AND COMANCHE COUNTY KS. STORMS DEVELOPING IN THIS AREA NEED TO BE MONITORED AS THE AVAILABLE CAPE/SHEAR PARAMETER SPACE SUPPORTS SUPERCCELLS WITH ALL SEVERE HAZARDS. VISIBLE SATELLITE IMAGERY SHOWED ADDITIONAL CU/MODERATE CU FORMING ALONG THE DRYLINE FROM CARSON TO ROBERTS COUNTIES TX...SUGGESTING ADDITIONAL COUNTIES MAY NEED TO ADDED TO WW 200 IN THE TX PANHANDLE AS STORMS FORM ALONG THE RETREATING DRYLINE WITHIN A FAVORABLE ENVIRONMENT FOR SUPERCCELLS.

..PETERS.. 05/23/2016

ATTN...WFO...OUN...DDC...LUB...AMA...

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