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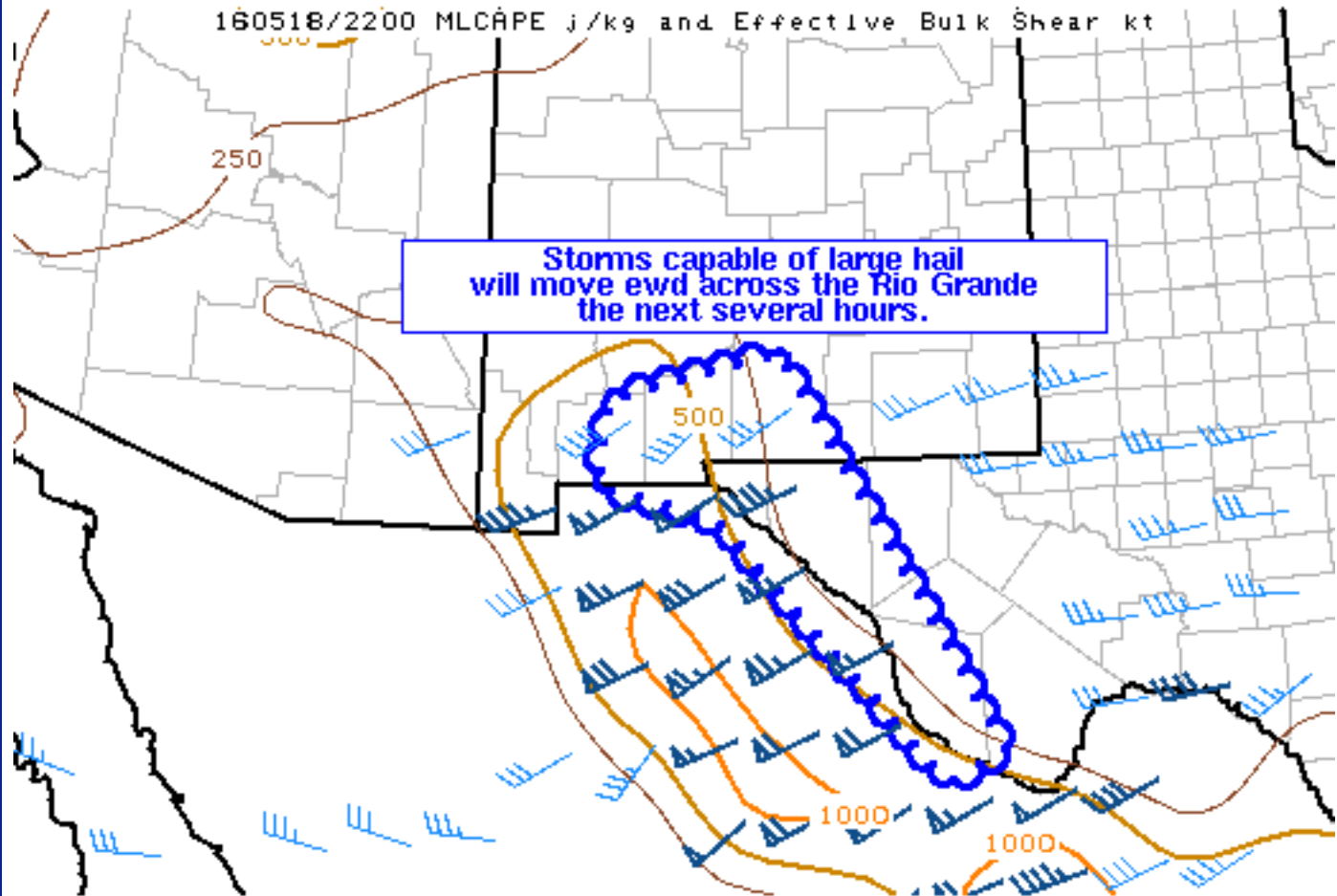
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## Mesoscale Discussion 650

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MESOSCALE DISCUSSION 0650

NWS STORM PREDICTION CENTER NORMAN OK

0543 PM CDT WED MAY 18 2016

AREAS AFFECTED...S-CNTRL NM / FAR W TX

CONCERNING...SEVERE POTENTIAL...WATCH UNLIKELY

VALID 182243Z - 182345Z

PROBABILITY OF WATCH ISSUANCE...20 PERCENT

SUMMARY...STORMS CAPABLE OF LARGE HAIL WILL MOVE EWD ACROSS THE RIO GRANDE IN S-CNTRL NM AND INTO FAR W TX FROM CHIHUAHUA.

DISCUSSION...RADAR MOSAIC/MRMS MESH DATA SHOWS SEVERAL SUPERCELLS WITH SEVERE-HAIL SIGNATURES ACROSS S-CNTRL NM /CYCLONIC AND ANTICYCLONIC STORMS/ INDICATING HAIL RANGING FROM 1.0-2.0 INCHES IN DIAMETER. WATER-VAPOR IMAGERY SHOWS AN IMPULSE MOVING EWD ACROSS SWRN NM LATE THIS AFTERNOON WITH THE BAND OF IMPLIED ASCENT EXTENDING SWD INTO NRN CHIHUAHUA/FAR W TX ALONG THE RIO GRANDE. 22Z

SURFACE MESOANALYSIS PLACES A SE-NW ORIENTED FRONTAL ZONE ACROSS THIS REGION WITH COOL/STABLE CONDITIONS LOCATED FARTHER E NEAR GUADALUPE AND DAVIS MTNS.

MODIFYING THE 18Z EPZ RAOB YIELDS AROUND 400 J/KG MLCAPE FOR CURRENT SURFACE CONDITIONS. STRONG 0-6 KM SHEAR IN EXCESS OF 40 KT WILL SUPPORT ROTATION WITH THE STRONGER UPDRAFTS WITHIN THE STEEP LAPSE RATE/WEAK BUOYANCY REGIME. AS SUCH...LARGE HAIL WILL BE THE PRIMARY HAZARD LATE THIS AFTERNOON/EARLY EVENING.

..SMITH/EDWARDS.. 05/18/2016

ATTN...WFO...MAF...EPZ...

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