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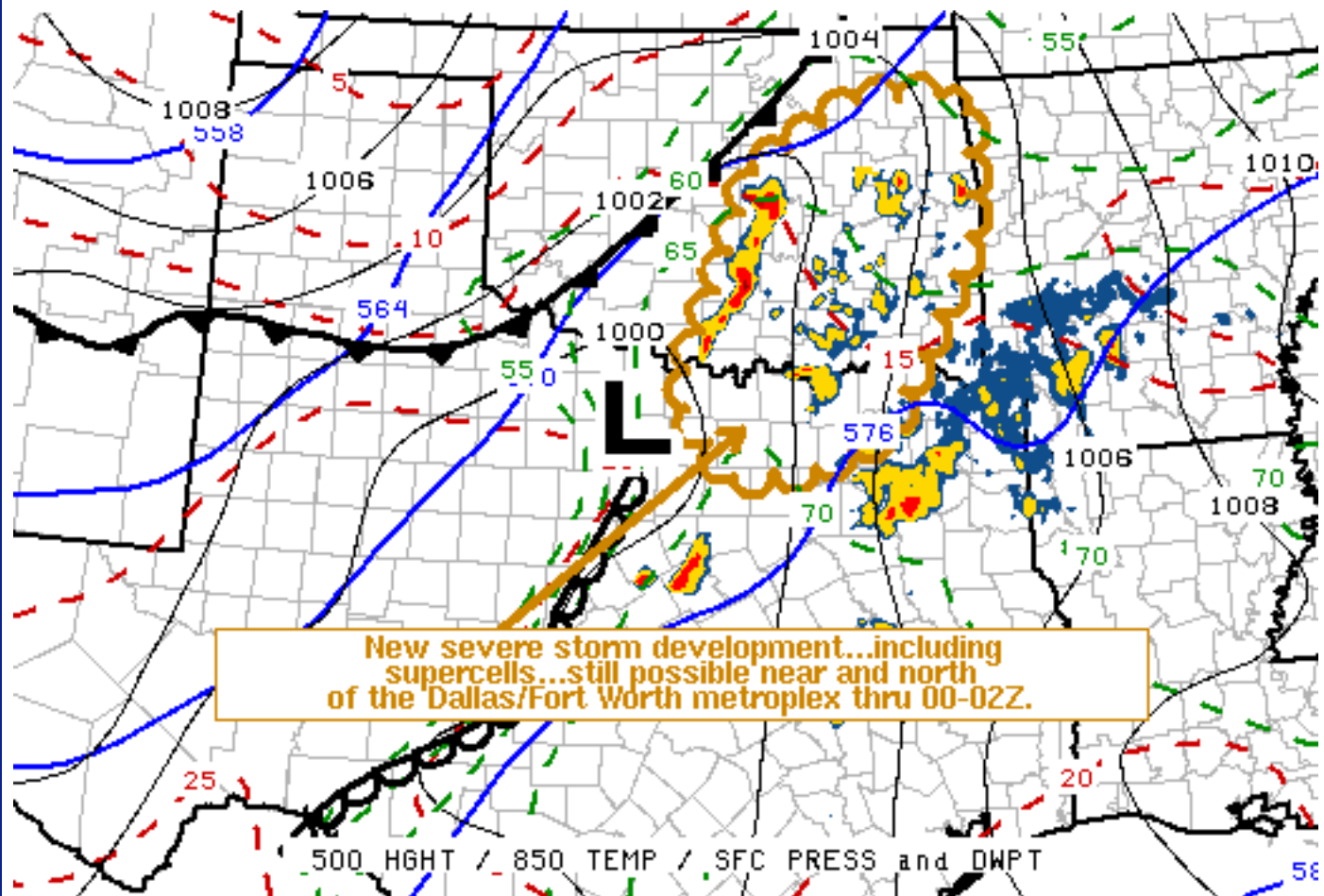
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Mesoscale Discussion 505

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SPC MCD #0505

MESOSCALE DISCUSSION 0505

NWS STORM PREDICTION CENTER NORMAN OK

0616 PM CDT FRI APR 29 2016

AREAS AFFECTED...S CNTRL THROUGH ERN OK AND ADJACENT N CNTRL THROUGH NORTHEASTERN TX

CONCERNING...TORNADO WATCH 124...126...

VALID 292316Z - 300045Z

THE SEVERE WEATHER THREAT FOR TORNADO WATCH 124...126...CONTINUES.

SUMMARY...IT IS NOT CERTAIN THAT A NEW WATCH WILL BE NEEDED NORTH OF TORNADO WATCH 126...BUT TRENDS ARE BEING MONITORED FOR THIS POSSIBILITY. OTHERWISE...ADDITIONAL STRONG/SEVERE STORM DEVELOPMENT APPEARS POSSIBLE WITHIN THE NEXT FEW HOURS NEAR THE RED RIVER TO THE NORTH OF THE DALLAS/FORT WORTH METROPLEX...SOUTHWARD INTO AREAS NEAR OR JUST NORTH OF THE METROPLEX.

DISCUSSION...ONGOING VIGOROUS LINEAR CONVECTIVE SYSTEM...WITH AT

LEAST A COUPLE OF EMBEDDED SUPERCELLS...STILL APPEARS TO BE MAINTAINING STRENGTH AS IT ADVANCES EAST NORTHEAST OF THE INTERSTATE 35 CORRIDOR OF SOUTHERN OKLAHOMA. ACTIVITY APPEARS TO HAVE BEEN SUPPORTED BY ASCENT ASSOCIATED WITH A FRONTAL WAVE...ENHANCED BY FORCING WITH AN INITIAL IMPULSE PIVOTING AROUND THE EASTERN PERIPHERY OF A CLOSED LOW NOW CROSSING THE CENTRAL ROCKIES. HOWEVER THIS FORCING MAY BEGIN TO WEAKEN SHORTLY...AND WITH CONVECTION SOON TO SPREAD INTO AN ENVIRONMENT THAT IS BECOMING INCREASINGLY STABILIZED BY WIDESPREAD CONVECTION...IT REMAINS UNCLEAR HOW MUCH LONGER IT WILL MAINTAIN ITS CURRENT STRENGTH.

AT LEAST SOME MODEL GUIDANCE IS SUGGESTIVE THAT ANOTHER IMPULSE PIVOTING INTO THE SOUTHERN HIGH PLAINS MAY HELP FOCUS FORCING FOR INCREASING/INTENSIFYING NEW STORM DEVELOPMENT FROM THE VICINITY OF THE RED RIVER INTO AREAS NEAR OR JUST NORTH OF THE DALLAS/FORT WORTH METROPLEX THROUGH 00-02Z. THIS APPEARS SUPPORTED BY TRENDS IN LATEST VISIBLE AND RADAR IMAGERY. JUST AHEAD OF THE DRYLINE...A MOIST BOUNDARY LAYER /WITH SURFACE DEW POINTS IN THE LOWER 70S/ IS CONTRIBUTING TO MODERATELY LARGE CAPE...IN THE PRESENCE OF STRONG SHEAR BENEATH 50-60+ KT SOUTHWESTERLY 500 MB FLOW. SOME FURTHER STRENGTHENING OF SOUTHERLY 850 MB FLOW COULD STILL CONTRIBUTE TO ENLARGING LOW-LEVEL HODOGRAPHS...WITH A RISK FOR TORNADOES...IN ADDITION TO SEVERE HAIL AND POTENTIALLY DAMAGING WIND GUSTS.

..KERR.. 04/29/2016

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