Skýstrókar í Oklahoma Elín Björk Jónasdóttir

Tom Magnuson, WCM NWS Pueblo — at north central Oklahoma at 40K feet

Yfirlit

- Svæsinn skýstrókatíð í Oklahoma 2013
- Hlýtt og rakt loft úr suðri, háloftavindröst og rakaskil mynda sk. "tripple point"
- 18-20. maí var þriggja daga viðburður eða "outbreak" þar sem fjöldi skýstróka myndaðist, stærstur var EF-5 skýstrókur sem var breiðastur um 1,5 km í þvermál

- 29-31. maí varð annar viðburður sem myndaði fjölda skýstróka, sá stærsi um 4 km í þvermál
- Aftur gengu stærstu skýstrókarnir yfir mjög fjölbýl svæði
- Viðvaranir voru gefnar út en veðurfréttamenn í sjónvarpi gáfu mjög slæm ráð sem varð til þess að mikið umferðaröngþveiti myndaðist í nágrenni stormanna

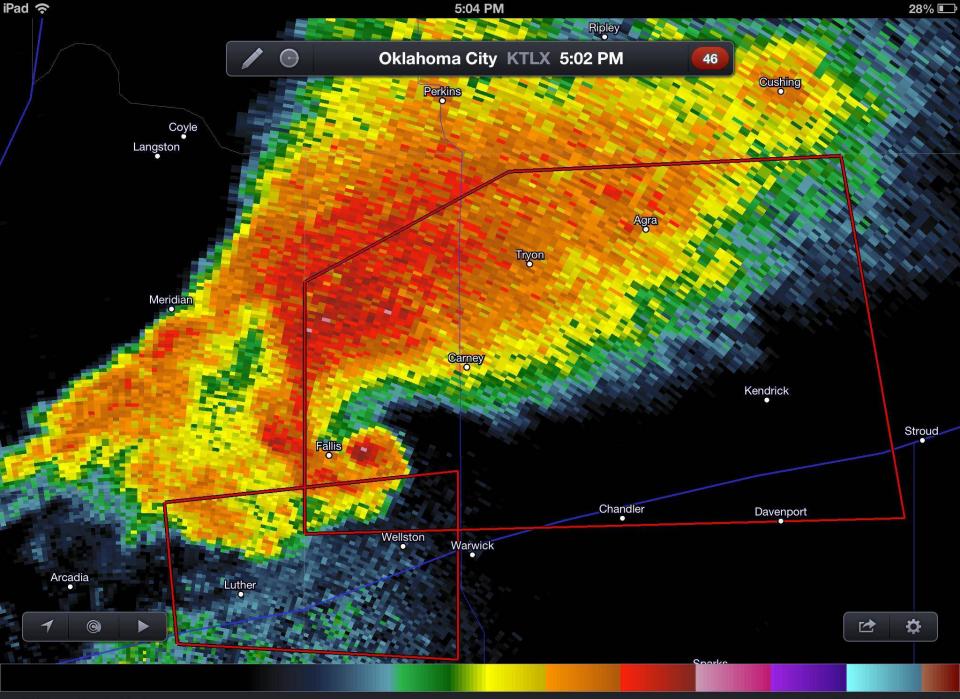
EF Rating	Wind Speeds	Expected Damage	
EF-0	65-85 mph	'Minor' damage: shingles blown off or parts of a roof peeled off, damage to gutters/siding, branches broken off trees, shallow rooted trees toppled.	
EF-1	86-110 mph	'Moderate' damage: more significant roof damage, windows broken, exterior doors damaged or lost, mobile homes overturned or badly damaged.	
EF-2	111-135 mph	'Considerable' damage: roofs torn off well constructed homes, homes shifted off their foundation, mobile homes completely destroyed, large trees snapped or uprooted, cars can be tossed.	
EF-3	136-165 mph	'Severe' damage: entire stories of well constructed homes destroyed, significant damage done to large buildings, homes with weak foundations can be blown away, trees begin to lose their bark.	
EF-4	166-200 mph	'Extreme' damage: Well constructed homes are leveled, cars are thrown significant distances, top story exterior walls of masonry buildings would likely collapse.	
EF-5	> 200 mph	'Massive/incredible' damage: Well constructed homes are swept away, steel-reinforced concrete structures are critically damaged, high-rise buildings sustain severe structural damage, trees are usually completely debarked, stripped of branches and snapped.	

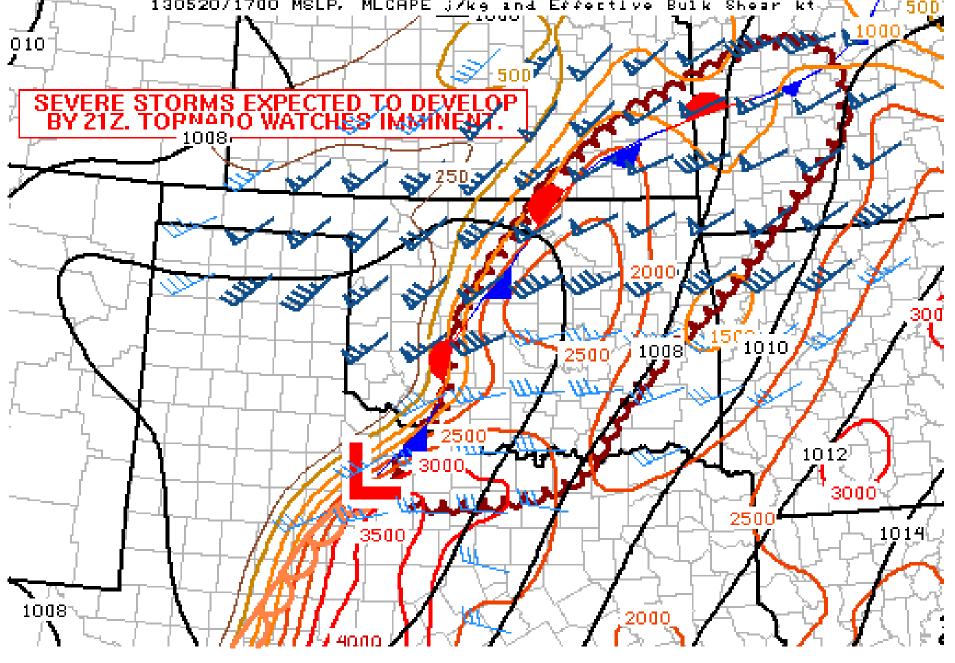
Mesoscale discussion 20. maí

DISCUSSION...RAPID INTENSE STORM DEVELOPMENT IS EXPECTED DURING THE NEXT FEW HOURS...BOTH NEAR A STALLED SURFACE FRONT ROUGHLY WEST OF THE I-35 CORRIDOR...AND NEAR THE PRE-FRONTAL DRYLINE NOSING NORTHEASTWARD INTO SOUTH CENTRAL OKLAHOMA BY LATE AFTERNOON. ISOLATED SUPERCELLS ARE LIKELY ALONG THE DRYLINE...WITH THE MOST PROMINENT TORNADO THREAT...WHICH PROBABLY WILL INCREASE BY EARLY EVENING AS THE SOUTHERLY LOW-LEVEL JET STRENGTHENS AND ENLARGES LOW-LEVEL HODOGRAPHS. ONE OR TWO STRONG TORNADOES MAY NOT BE OUT OF THE QUESTION. OTHERWISE...LARGE HAIL IS LIKELY...SOME VERY LARGE... WITH INCREASING DAMAGING WIND POTENTIAL ACROSS EASTERN OKLAHOMA AS CONVECTION CONSOLIDATES AND EVOLVES INTO AN ORGANIZED CLUSTER.

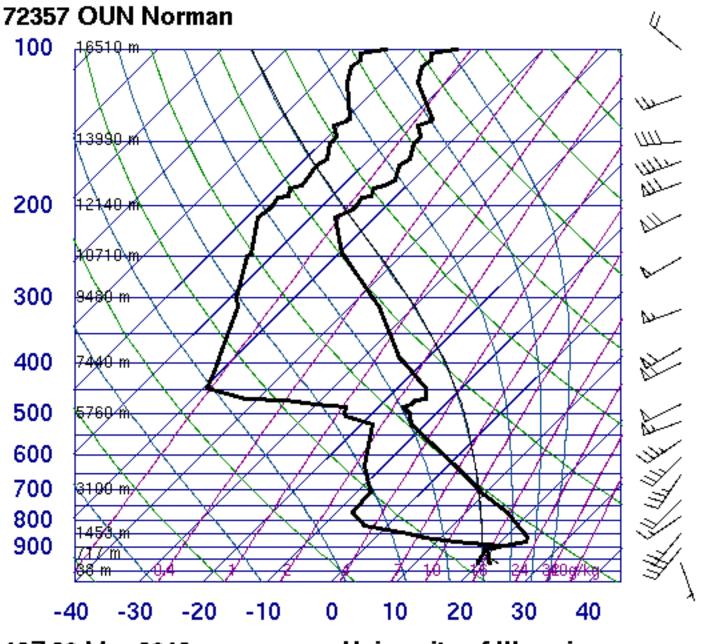
AVIATION...TORNADOES AND A FEW SEVERE THUNDERSTORMS WITH HAIL SURFACE AND ALOFT TO 4 INCHES. EXTREME TURBULENCE AND SURFACE WIND GUSTS TO 60 KNOTS. A FEW CUMULONIMBI WITH MAXIMUM TOPS TO 600. MEAN STORM MOTION VECTOR 25035.

...KERR





SPC MCD #0726



SLAT 35.18 SLON -97.44 345.0 SELV SHOW -2.56 -8.56 LIFT -9.21 LFTV SWET 363.7 KINX. 24.30 CTOT 18.70 VTOT 36.70 55.40 TOTL CAPE 1914. CAPV 2066. CINS. -313. -228. CINV EQLV 204.9 204.9 EQTV 699.5 LFCT 720.4 LFCV BRCH 43.85 BRCV 47.33 292.0 LCLT LCLP 921.5 MLTH 298.9 MLMR 15.18 THCK 5722. PWAT 26.02

12Z 20 May 2013

University of Wyoming

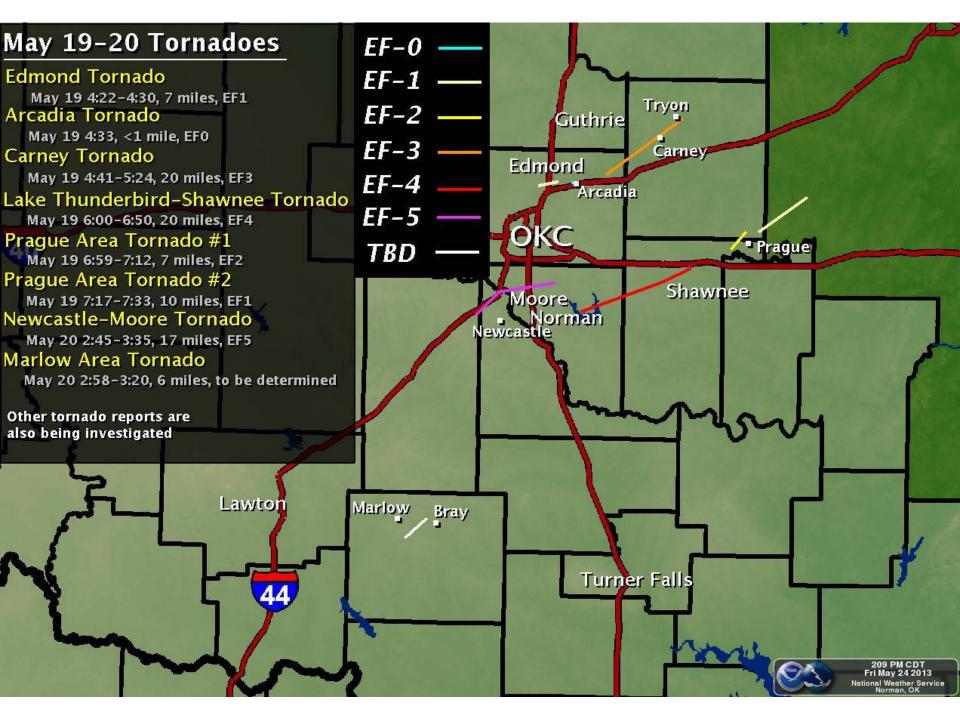


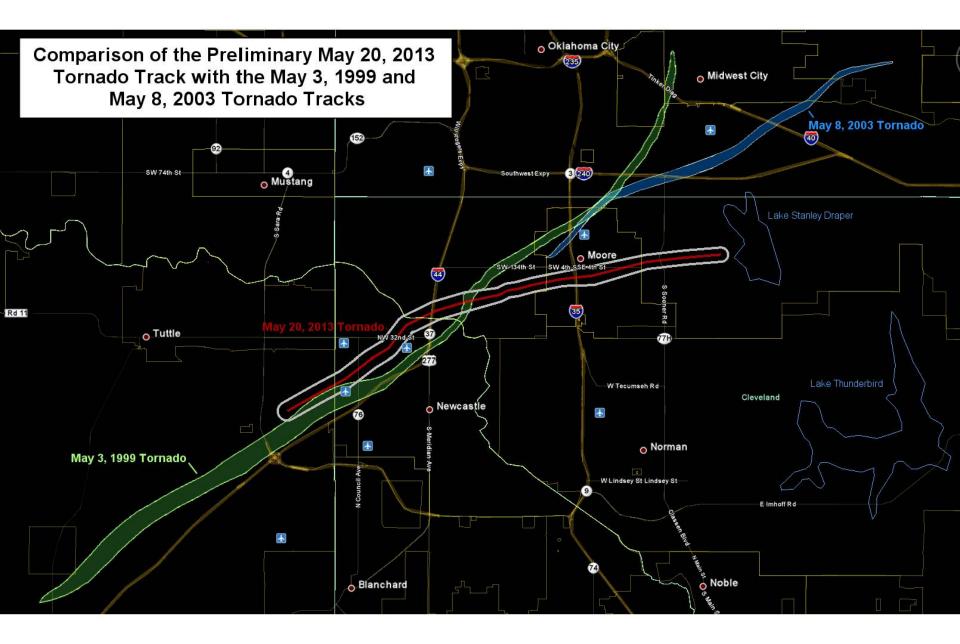


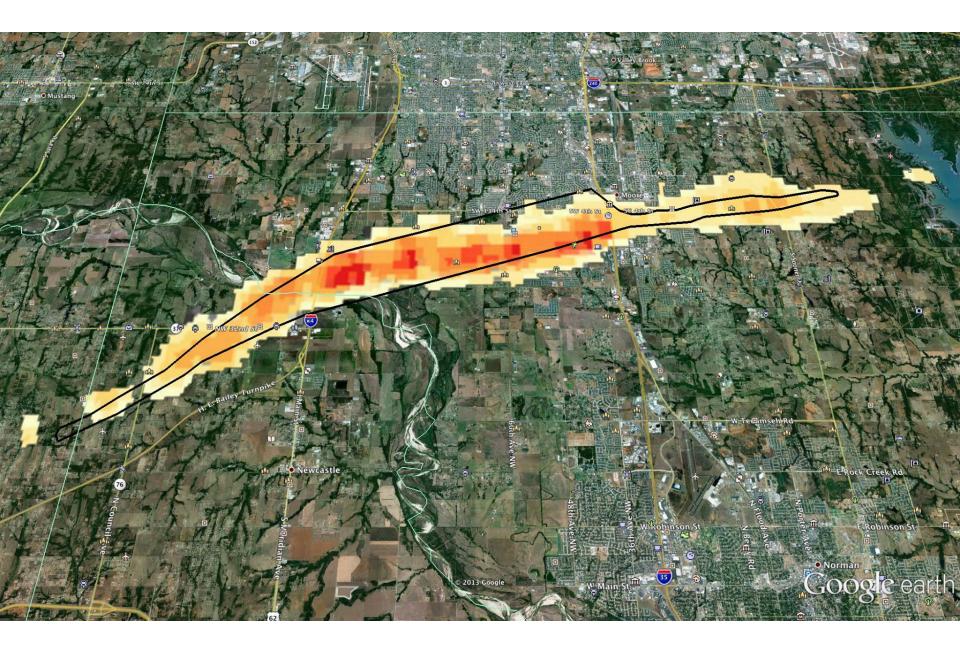


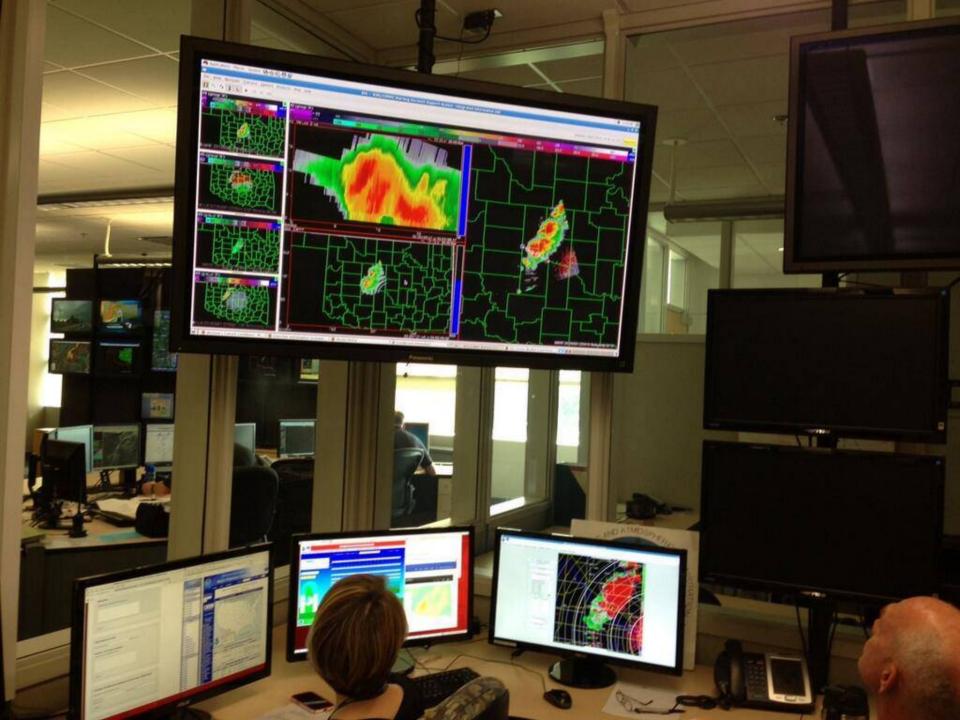


Gabe Garfield









Mesoscale discussion, 31. maí kl. 15:30

DISCUSSION...THUNDERSTORMS ARE BEGINNING TO INTENSIFY OVER SOUTHEAST KS AND WESTERN/CENTRAL MO. STORMS WILL LIKELY BECOME SEVERE OVER THE NEXT COUPLE OF HOURS WITH THE RISK OF A FEW SUPERCELL STORMS. LOW LEVEL VERTICAL SHEAR PROFILES ARE FAVORABLE FOR THE THREAT OF A FEW TORNADOES /PERHAPS STRONG/. HIGH CAPE VALUES AND STEEP MID LEVEL LAPSE RATES WILL ALSO POSE A RISK OF VERY LARGE HAIL.

AVIATION...TORNADOES AND A FEW SEVERE THUNDERSTORMS WITH HAIL SURFACE AND ALOFT TO 3 INCHES. EXTREME TURBULENCE AND SURFACE WIND GUSTS TO 65 KNOTS. A FEW CUMULONIMBI WITH MAXIMUM TOPS TO 550. MEAN STORM MOTION VECTOR 24030.

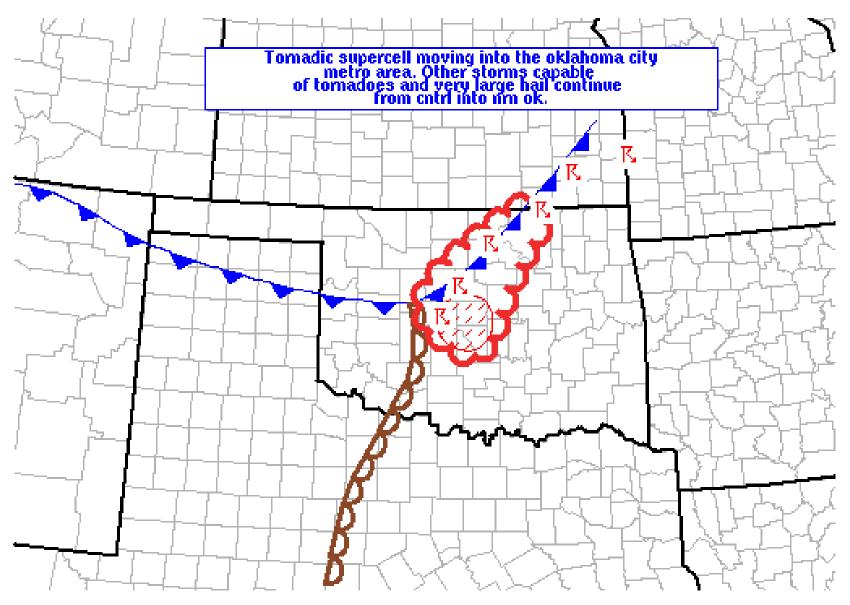
...HART

Forecaster discussion, 31. maí kl. 15:30

DISCUSSION...AN EXTREMELY UNSTABLE AIR MASS HAS DEVELOPED ACROSS MUCH OF CENTRAL/EASTERN OK THIS AFTERNOON. THIS WILL LIKELY RESULT IN RAPID DEVELOPMENT OF SEVERE THUNDERSTORMS THIS AFTERNOON AND EVENING ALONG THE DRYLINE OVER WEST-CENTRAL OK...AND ALONG A WEAK BOUNDARY EXTENDING NORTHEASTWARD INTO NORTHEAST OK. DISCRETE SUPERCELLS CAPABLE OF EXTREMELY LARGE HAIL AND DAMAGING TORNADOES ARE POSSIBLE. DAMAGING WINDS WILL BECOME AN INCREASING THREAT THROUGH THE EVENING.

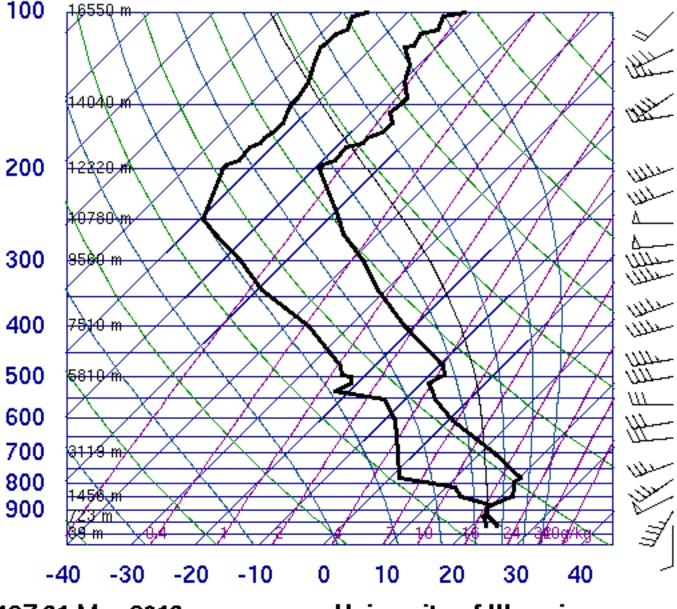
AVIATION...TORNADOES AND A FEW SEVERE THUNDERSTORMS WITH HAIL SURFACE AND ALOFT TO 4 INCHES. EXTREME TURBULENCE AND SURFACE WIND GUSTS TO 70 KNOTS. A FEW CUMULONIMBI WITH MAXIMUM TOPS TO 600. MEAN STORM MOTION VECTOR 26025.

...HART



SPC MCD #0913

72357 OUN Norman

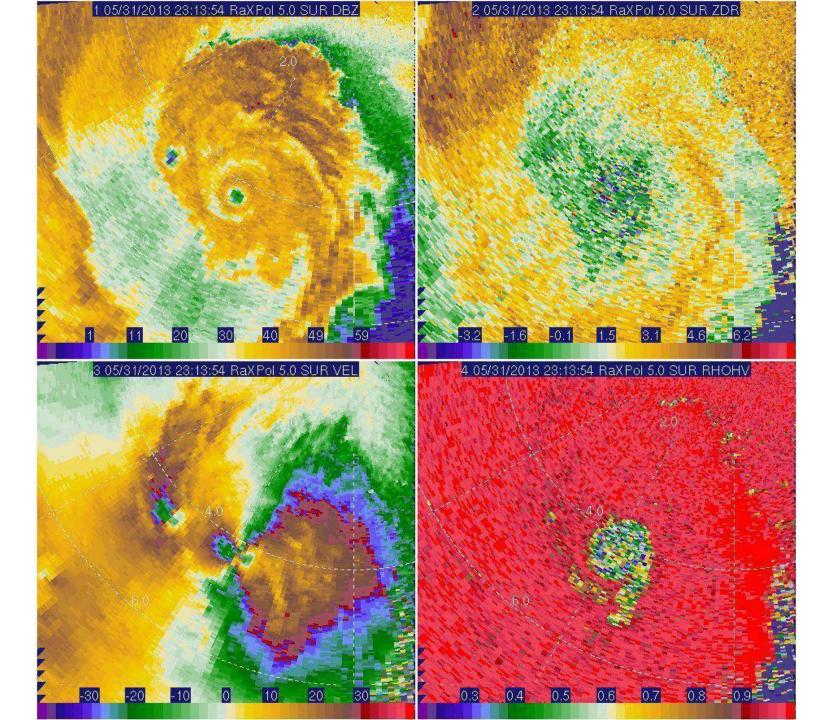


SLAT 35.18 SLON -97.44 SELV 345.0 SHOW -3.04 -5.29 LIFT LFTV -6.11 SWET 410.9 28.50 KINX. CTOT 21.70 VTOT 29.70 TOTL 51.40 CAPE 2856. CAPV 3027. CINS. -243. CINV -170. EQLV 180.9 EQTV 180.9 677.2 LFCT LFCV 697.8 28.18 BRCH BRCV 29.86 294.0 LCLT LCLP 924.4 MLTH 300.7 MLMR 17.16 THCK 5771. PWAT 37.28

12Z 31 May 2013

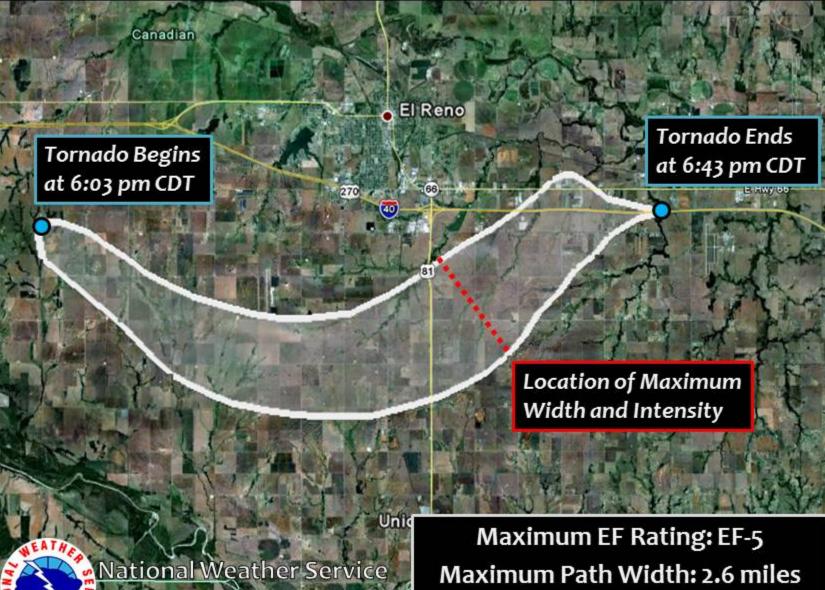
University of Wyoming





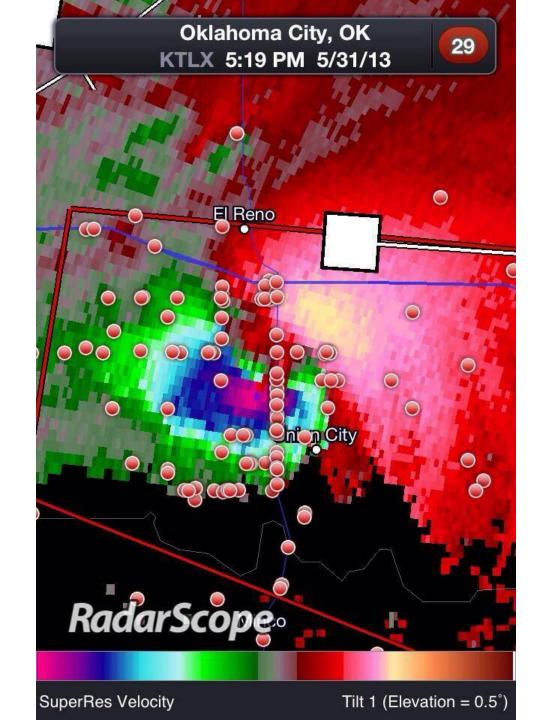


El Reno Tornado - May 31, 2013



Norman Forecast Office

Path Length: 16.2 miles



Preliminary Tornado Tracks for the May 31, 2013 El Reno and South OKC Tornadoes

