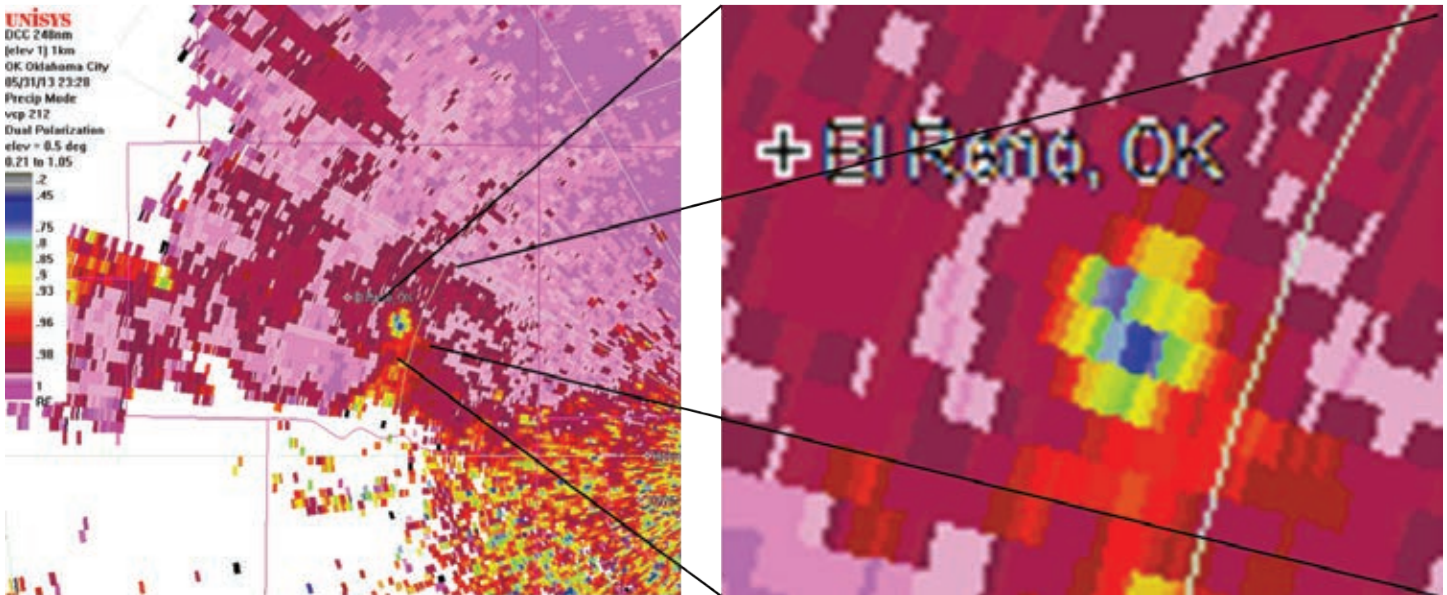
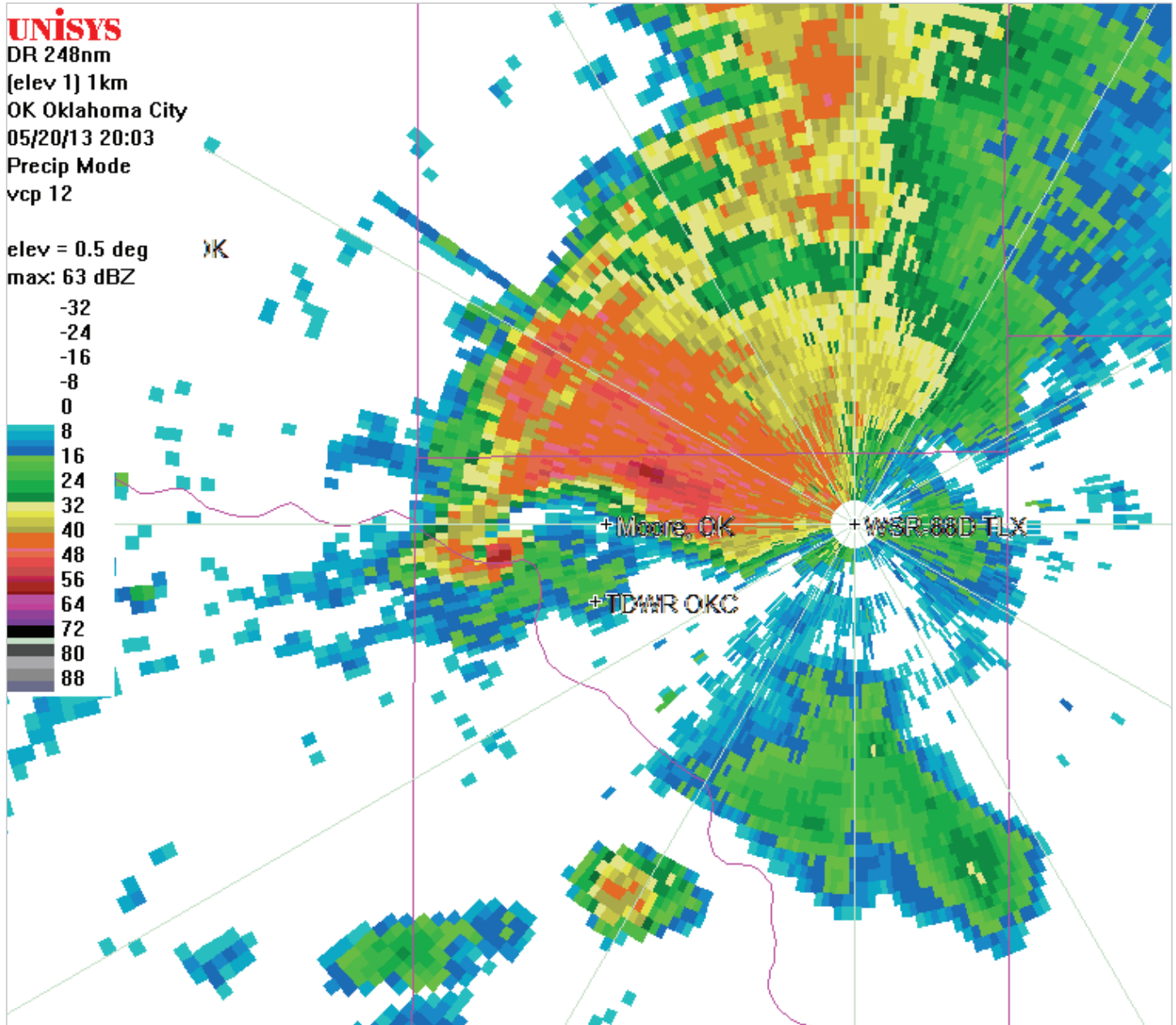


Detecting and Tracking Tornadoes with NEXRAD and TDWR Weather Radar Data



Tracking the El Reno, OK Tornado May 31, 2013

A tornado near El Reno, OK on May 31, 2013 produced a debris ball signature in this NEXRAD Dual Polarization Correlation Coefficient product from Oklahoma City at 2328Z. Airborne debris from the ground indicates a powerful tornado. Dual polarization NEXRAD products are available from Unisys.



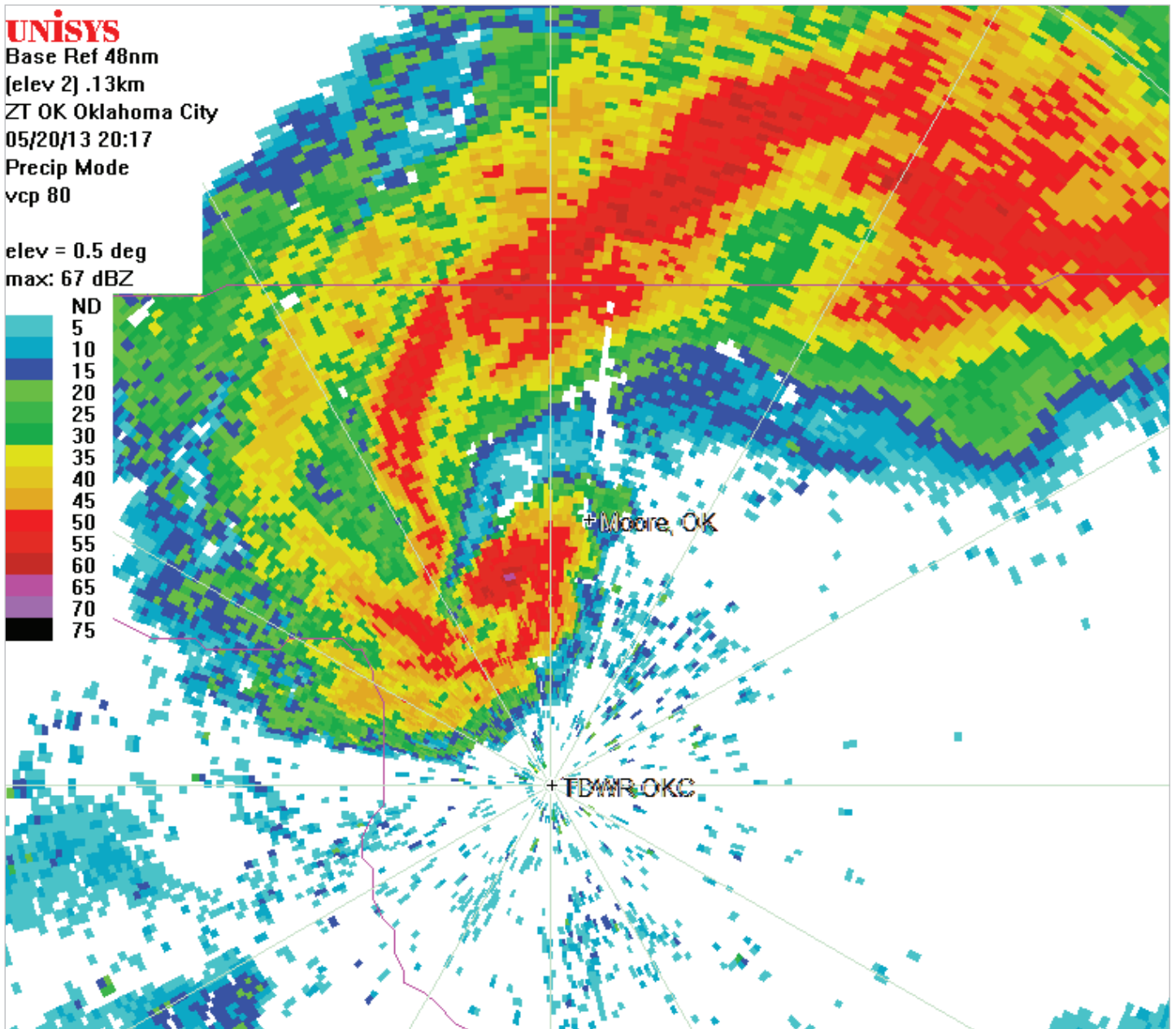
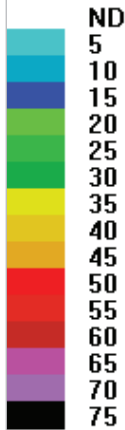
Tracking the Moore, OK Tornado May 20, 2013

Nexrad Base Reflectivity product from the Oklahoma City, OK radar site showing the Moore Oklahoma tornado on May 20, 2013 at 2003Z, as a hook echo feature is visible near the center of the image.

UNISYS

Base Ref 48nm
[elev 2] .13km
ZT OK Oklahoma City
05/20/13 20:17
Precip Mode
vcp 80

elev = 0.5 deg
max: 67 dBZ



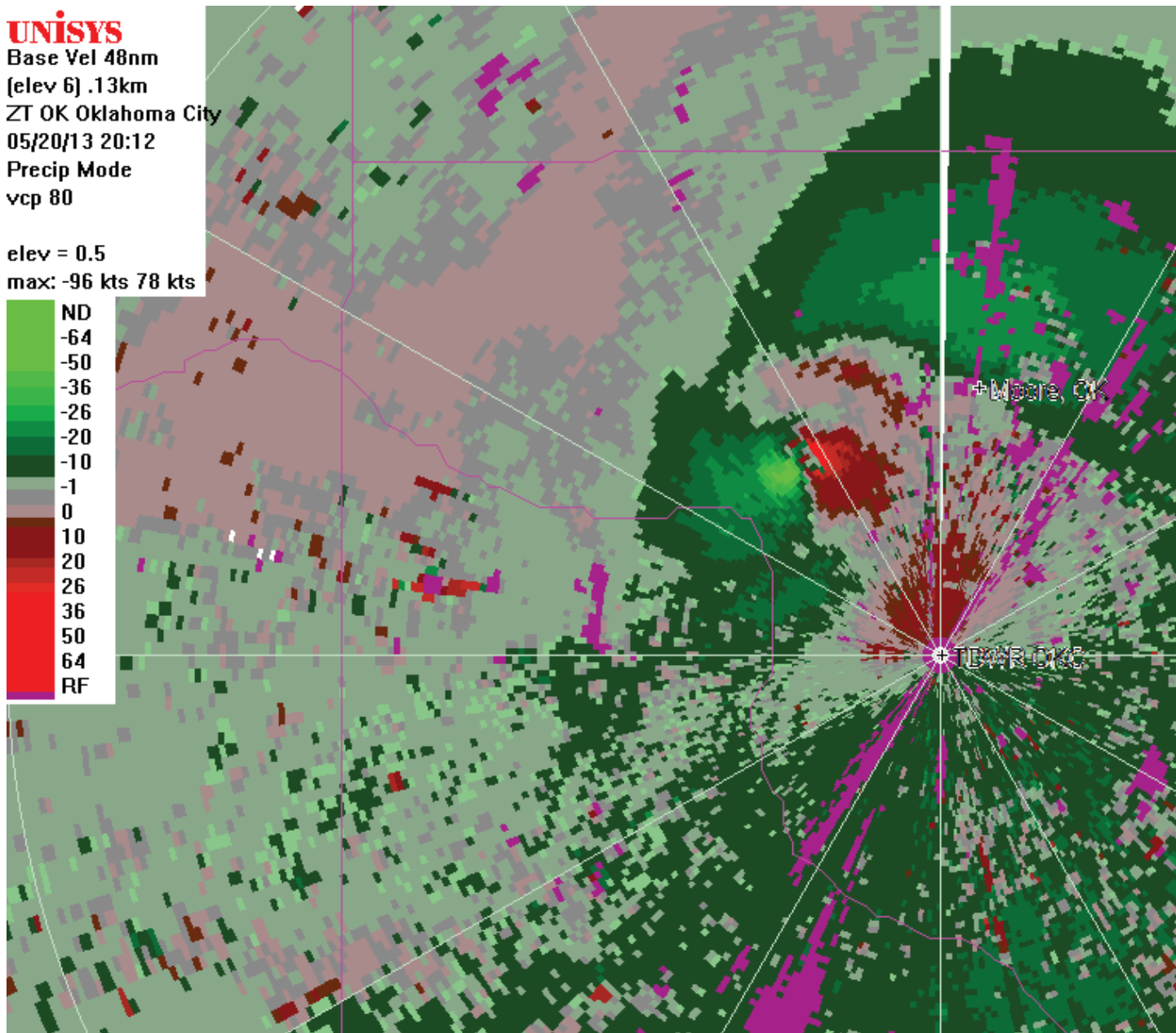
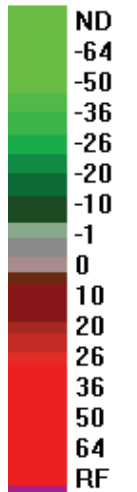
Tracking the Moore, OK Tornado May 20, 2013

Terminal Doppler Weather Radar (TDWR) High Resolution Base Reflectivity product from the Oklahoma City, OK TDWR radar site showing the Moore, OK tornado on May 20, 2013 at 2017Z. Distinctive hook echo feature is clearly visible.

UNISYS

Base Vel 48nm
[elev 6] .13km
ZT OK Oklahoma City
05/20/13 20:12
Precip Mode
vcp 80

elev = 0.5
max: -96 kts 78 kts



Tracking the Moore OK Tornado May 20, 2013

Nexrad Base Velocity product from the Oklahoma City, OK radar site showing the Moore Oklahoma tornado on May 20, 2013 at 2012Z. A velocity couplet feature is visible where adjacent red and green colors indicate intense rotation.

UNISYS

Comp Reflectivity

1x1km 16 level

OK Oklahoma City

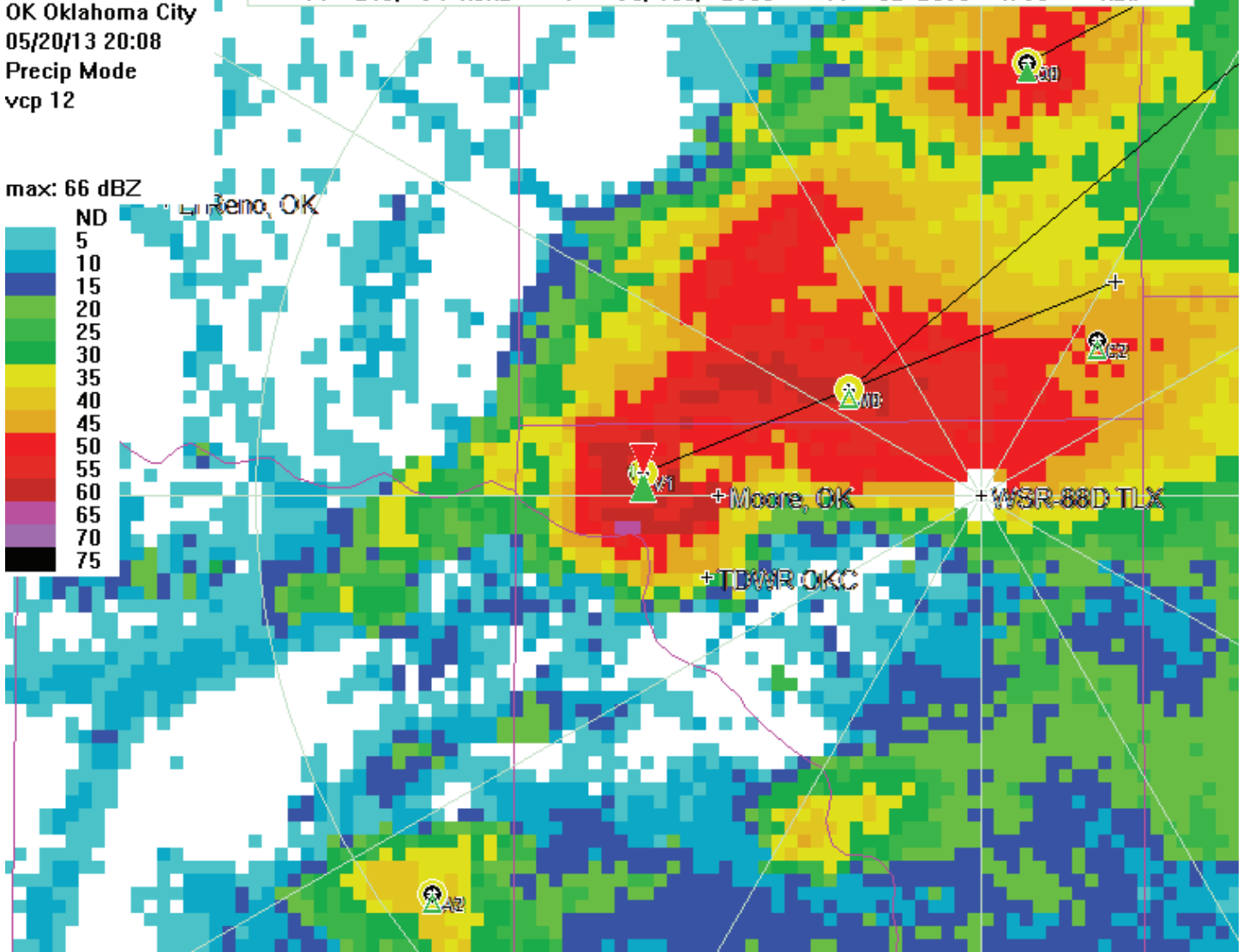
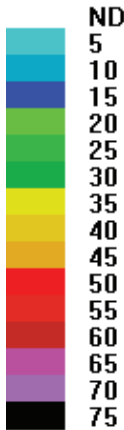
05/20/13 20:08

Precip Mode

vcp 12

STM ID	AZ/RAN	TUS	MDA	POSH/POH/MX	SIZE	UIL	DBZM	HT	TOP	FCST	MUMT
U1	274/ 14	TUS	12	60/ 90/	1.25	39	62	26.6	>26.6	248/ 21	
D0	211/ 48	TUS	5	70/100/	1.50	67	59	23.5	45.9	250/ 16	
U0	28/109	NONE	8	80/100/	2.00	59	64	24.3	37.0	233/ 35	
Y1	216/ 94	NONE	7	90/100/	2.00	77	62	20.0	47.0	NEW	

max: 66 dBZ



Tracking the Moore OK Tornado May 20, 2013

Nexrad Composite Reflectivity product from the Oklahoma City, OK radar site showing the Moore Oklahoma tornado on May 20, 2013 at 2008Z. NEXRAD algorithm output is overlaid showing Tornado Vortex Signature (TVS), Mesocyclone, Storm Track, and Hail features.

The future of weather technology is now.

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