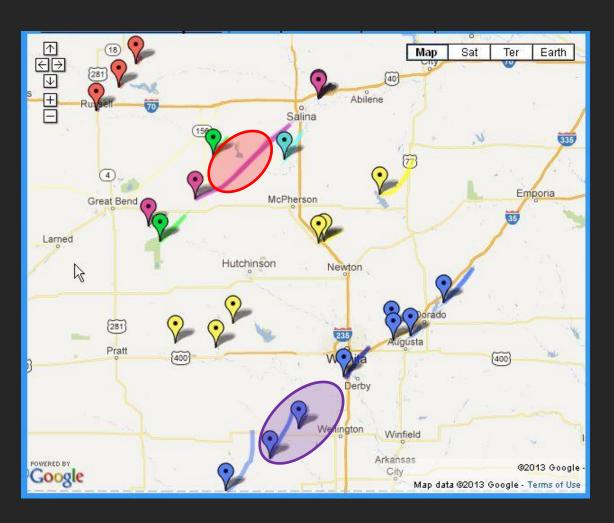


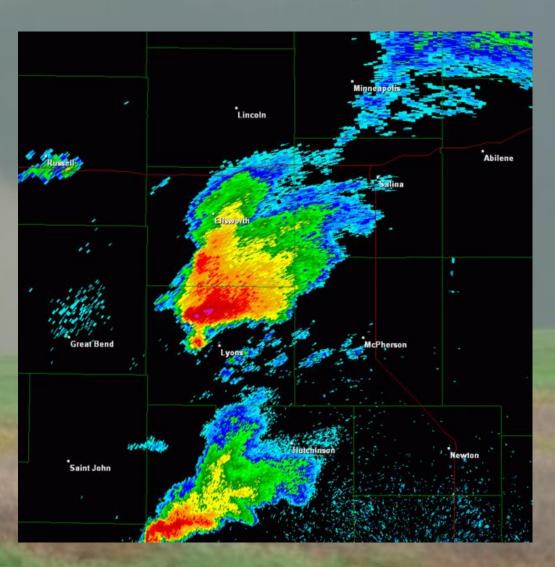
Tornado Tracks



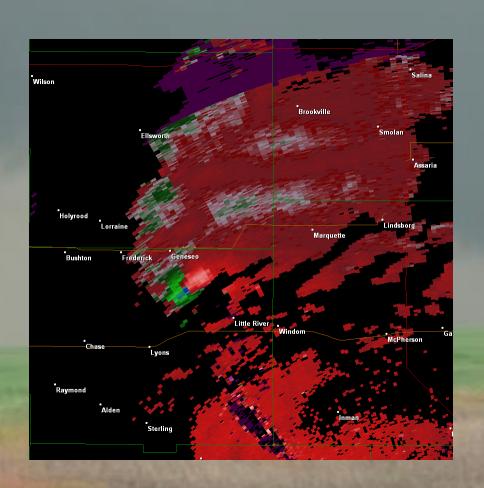
6 Separate Tracks

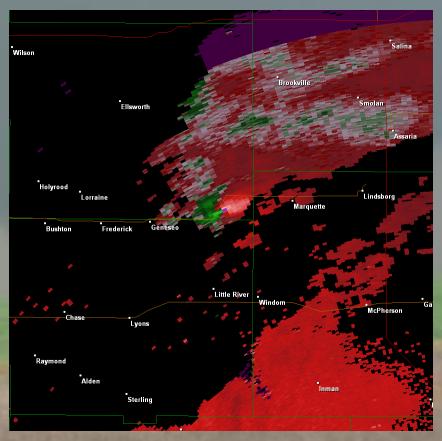
EF-4 Rips Across Central Kansas

JMB Tornadic Supercell



SRM Shows the EF-4 Beast





Devastation in SE Ellsworth Co.





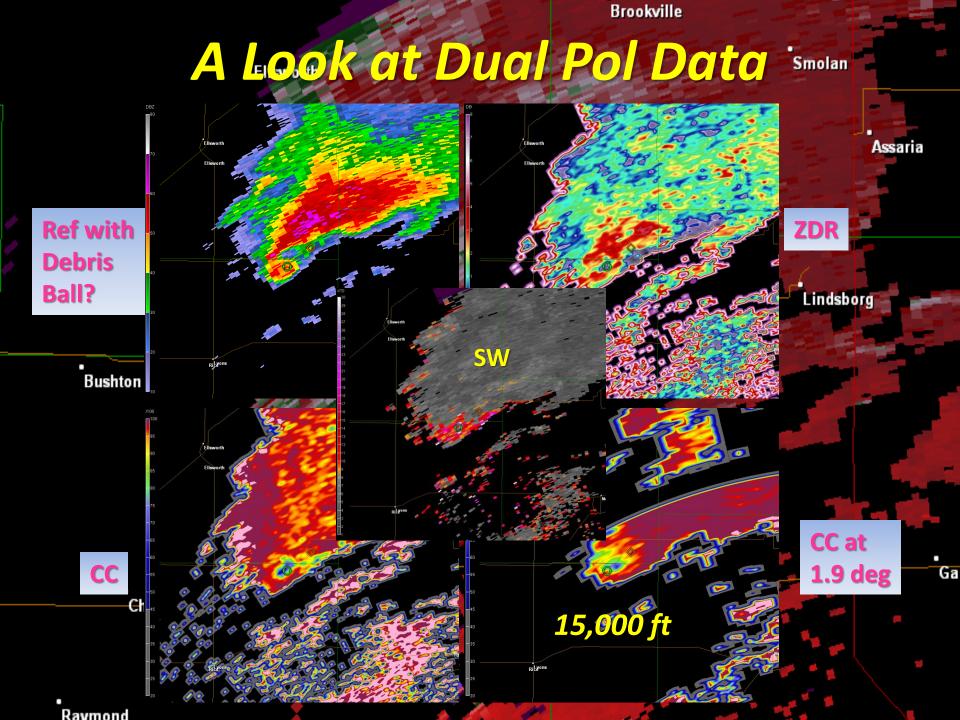
Brookville



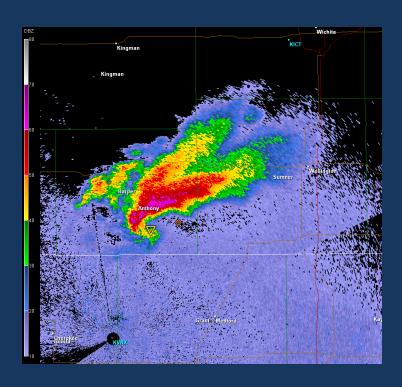
• Little River

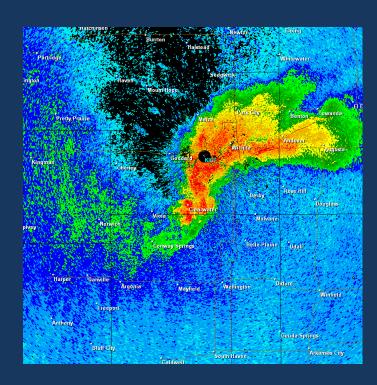




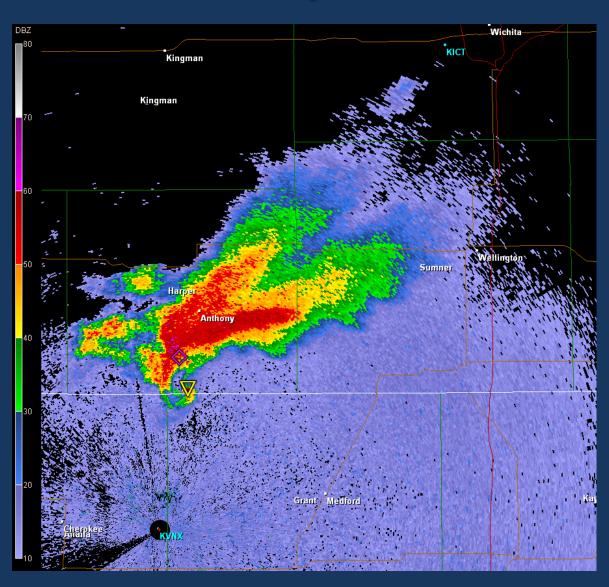


South Central Kansas ADK Tornadic Supercell

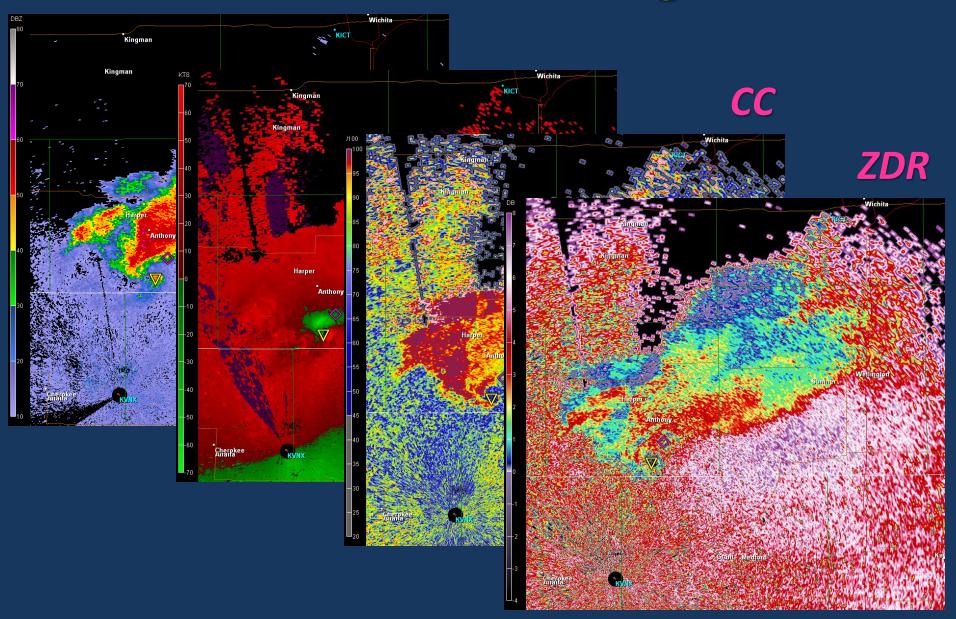




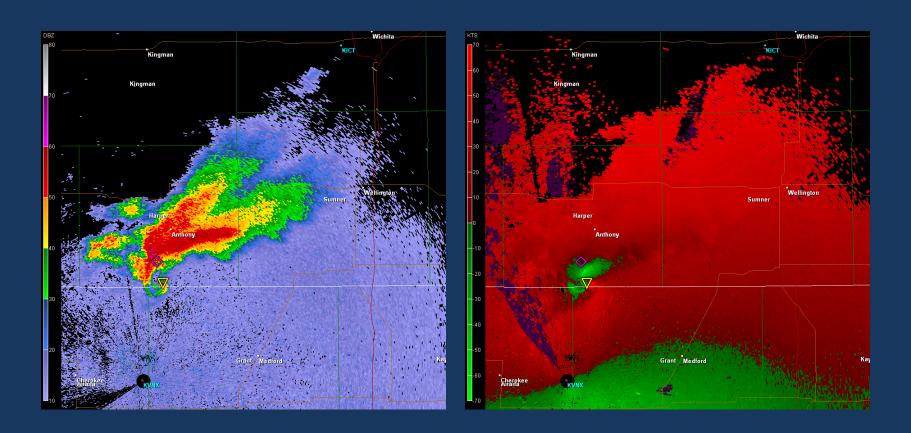
Beast Develops in Oklahoma



Dual Pol Delivers Again

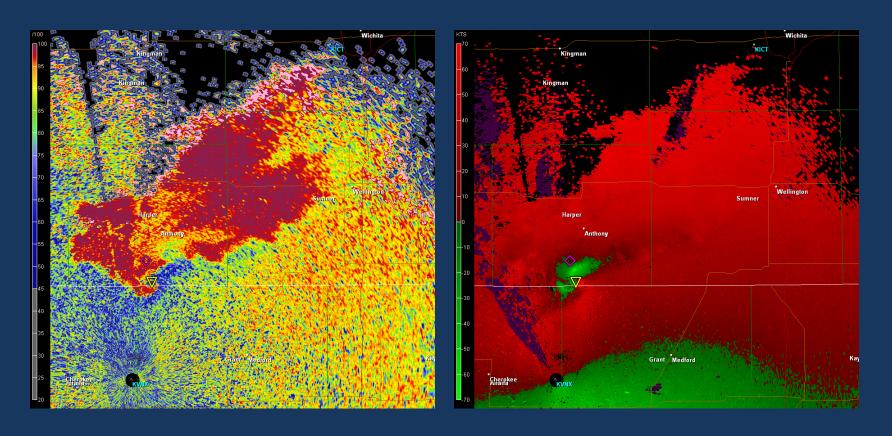


VNX Radar Replay



Cyclic RFD and Occlusion Process

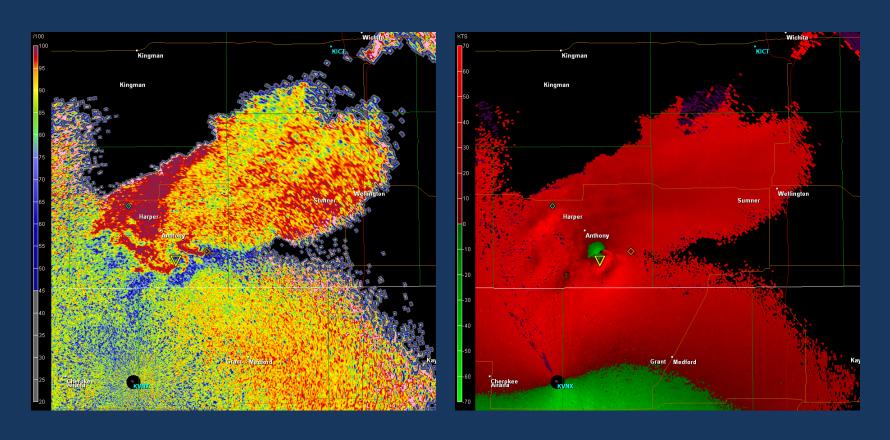
VNX Radar Replay



Low CC helps track and identify debris within cyclic tornado and strong mesoscale wind flow region to the S-E.

VNX Radar Replay

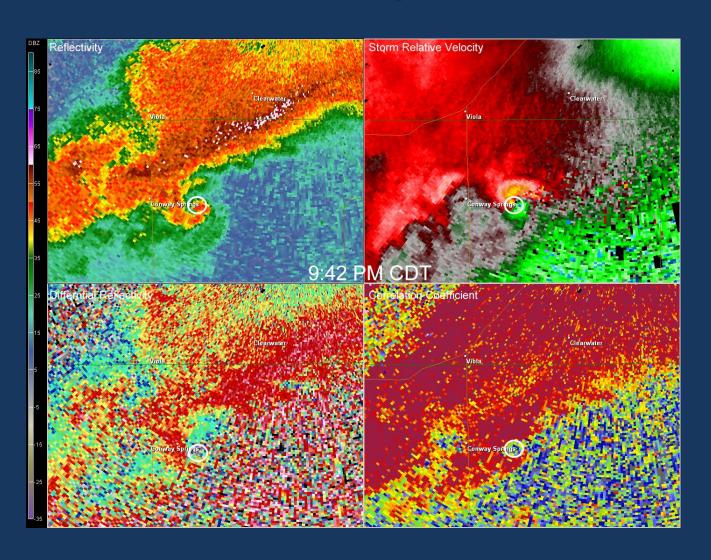
1.3 Elevation Slice



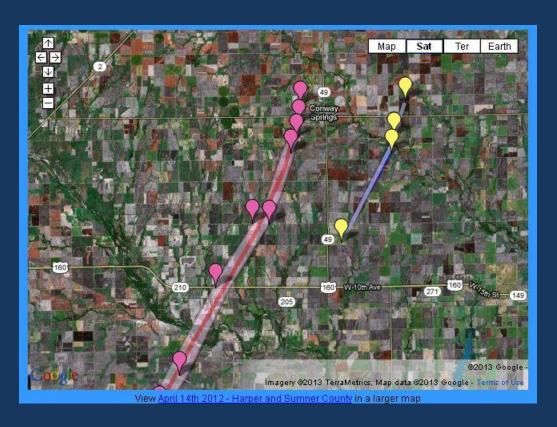
CC helps shows cyclic mesocyclone and tornadic evolution (brief break in damage path just W of SU county line?)

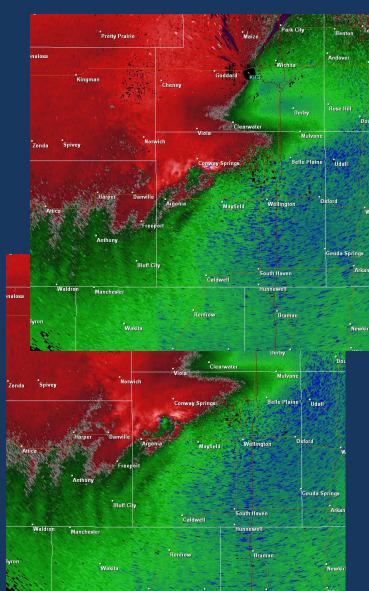
Another Debris Ball...

Dual Pol Style

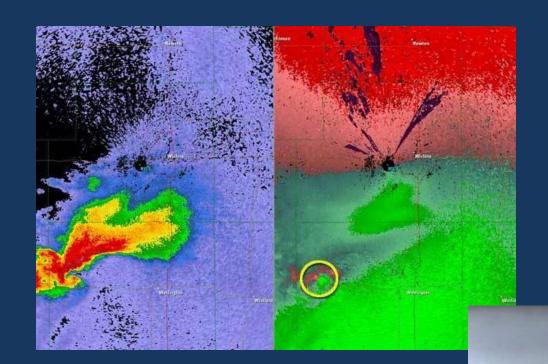


IBW Side Bar

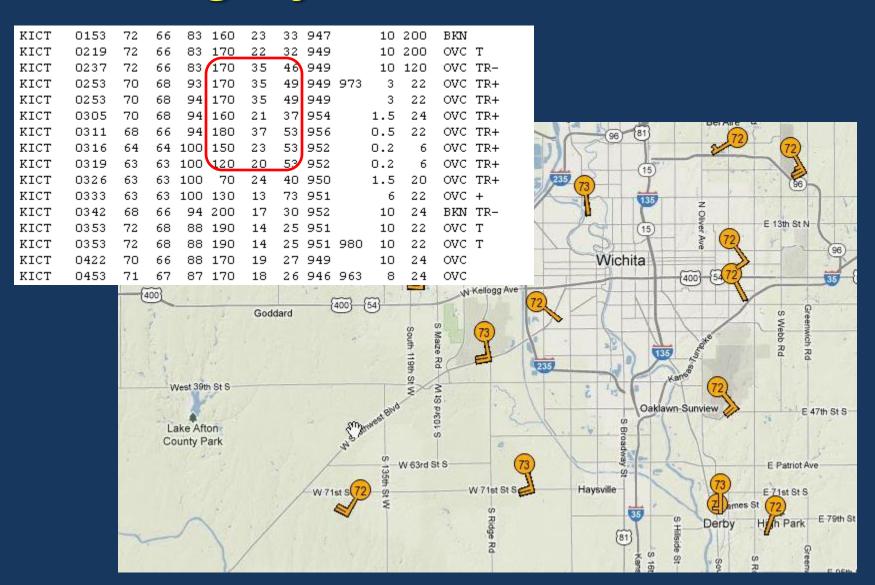




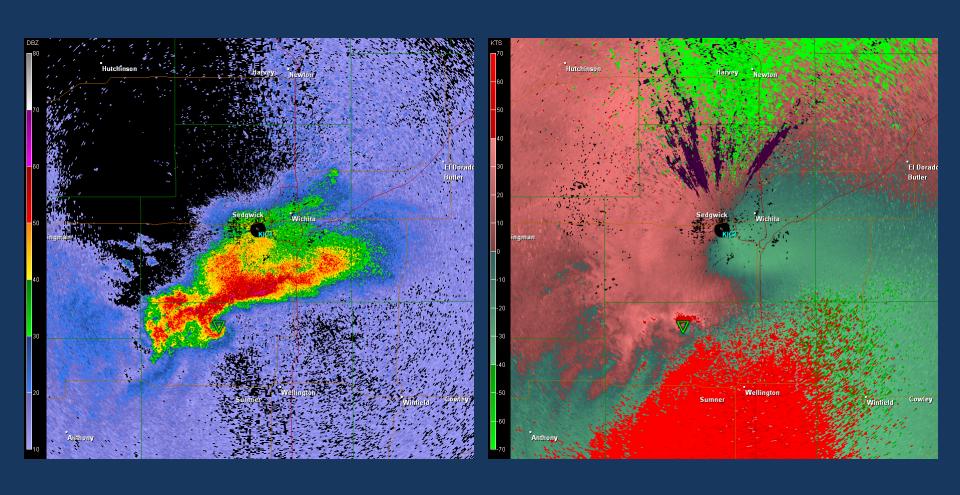
EF-3 Tornado Hits Southeast Wichita



Strong Inflow Precedes Tornado



EF3 Moves Across South Wichita



A Close Call for Airport & NWS...

KICT 150305Z 16021G37KT 1 1/2SM RO1L/3500VP6000FT +TSRA BR OVC024CB 21/20
A2954 RMK A02 PK WND 17037/0256 PRESRR TWR EVACUATING DUE TO REPORTED
TORNADO VC SW MOVG NE CONS LTGICCG TS E-S-SW MOVG NE PO015 \$
A2954

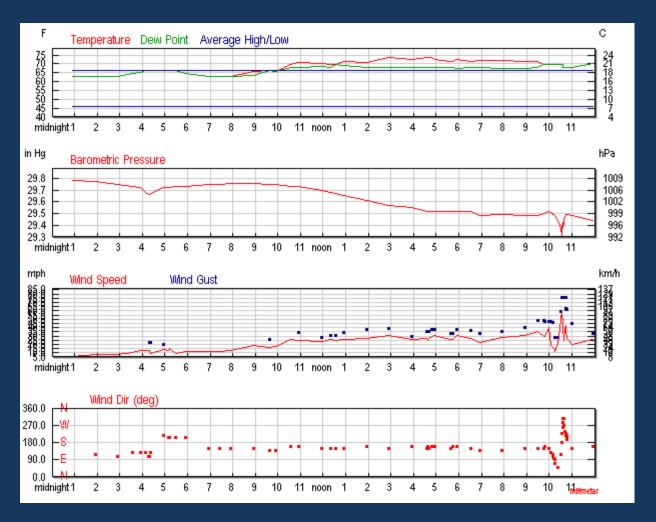
KICT 150311Z 18037G53KT 1/2SM R01L/1400V5500FT +TSRAGS FG SCT008 OVC022CB 20/19 A2956 RMK A02 PK WND 18053/0311 GSB10 PRESRR UNMANNED CONTROL TOWER CONS LTGICCG TS OHD E-S-SW MOVG NE P0043 \$ 20/19 A2956



We practiced what we preach! ... Take Shelter...

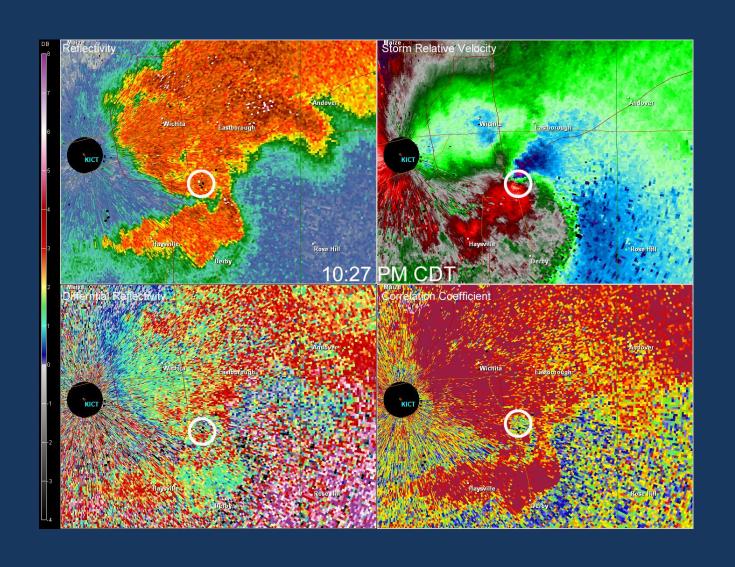
KICT 150333Z 13013G73KT 070V180 6SM +FC -TSRA BR FEW008 OVC022CB 17/17 A2951 RMK TORNADO B32 6SE MOVG NE A02 PK WND 27073/0329 WSHFT 0316 GSB10E18 CONS LTGICCG TS NE-SE MOVG NE P0199 \$ A2951

IAB Meteogram

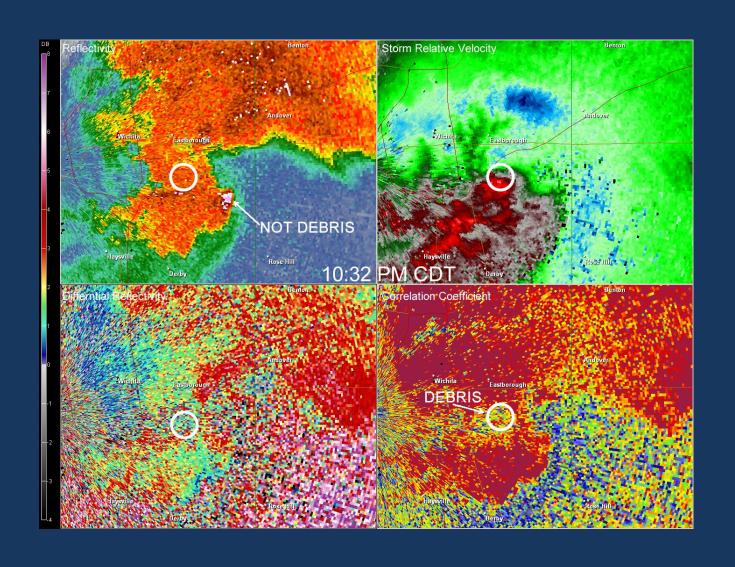


Pressure drop from 29.52" to 29.31" in 30 mins. Wind gust to 76 mph on periphery of tornadic circulation.

Debris...Debris!



Debris or Not Debris?



Wichita's Violent Recent Past

Wichita/Andover Tornado

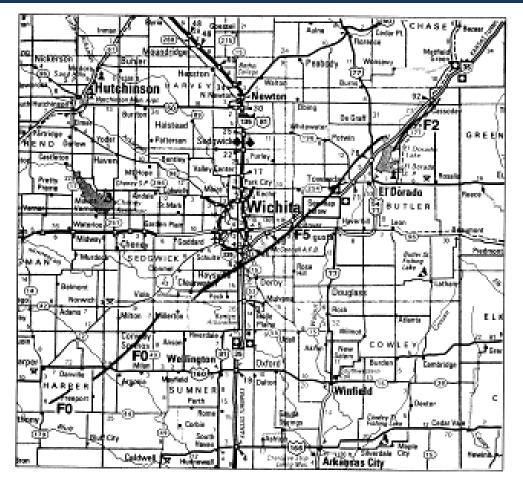
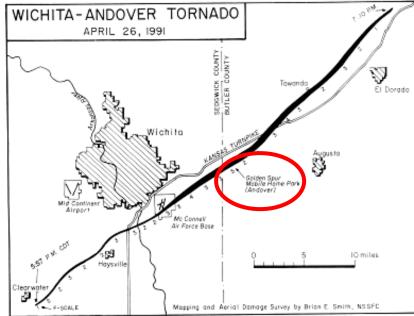


Figure 1. Tracks of tornadoes produced by the supercell which spawned the Wichita/ Andover tornado.



17 Fatalities

1991

4 – South Wichita

13 – Andover

All in Andover lived in Manufactured Housing

Wichita's Violent Recent Past

South Wichita/Andover – 1991 17 Fatalities (13 in mobile home park)

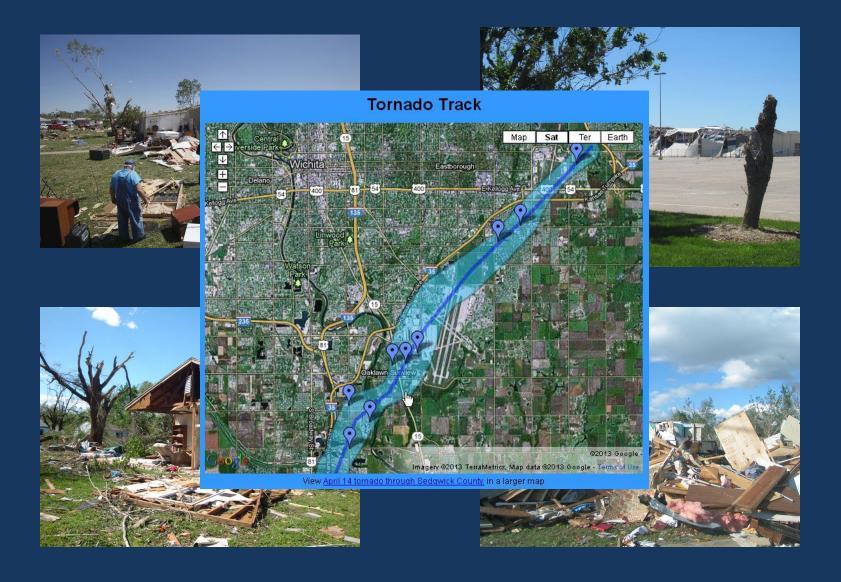




SouthWichita/Haysville -1999 6 Fatalities

Both had adequate lead times before tornadoes hit!

South Wichita Hit Again — 2012!



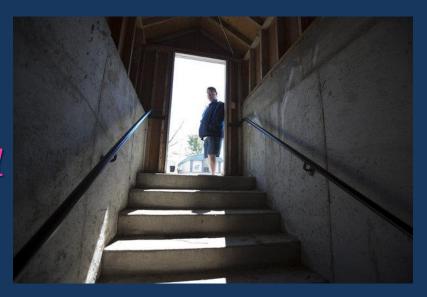
Citizens Heeded the Warnings!



Pinaire Mobile Home Park Hit in Oaklawn

They had a shelter and more Importantly – <u>THEY TOOK SHELTER!</u>

NO LIVES LOST!!!



Similarly Different

The Wichita CWA affected by 3 Significant Tornadic Outbreaks ('91-'99-'12)

All 3 had timely warnings (30 mins or more in advance)

April 14th 2012 an EF-3 (Wichita) & EF-4 (Ellsworth Co) -- '90s events were F-5 and F-4

Mobile home parks hit in each

-- No fatalities in 2012

-- Lives Saved in all 3 Events; Higher Level of Community Awareness and Response in 2012 likely Attributed to <u>No Loss of Life.</u>

Learning from Past Tragedies (More Storm Shelters)
Community Outreach & Education (NWS, Media & EM's)
Advance Awareness (Forecasts and Warnings)

This Sums It Up...

Ron and Barbara Moore had hoped heavy straps that in the past have held their 80-foot mobile home stable in 65 m.p.h. winds, might do so in a tornado. But like virtually every mobile home in the park, theirs was blown to shreds. The loudspeakers alerted the Moores,

Golden Spur Residents in 1991 after tornado. (13 people died)







Kansas Governor after April 14th. (no fatalities)

The destruction had Brownback shaking his head that no one was killed and only a few injuries, mostly minor, were reported.

He credited weather forecasters for getting warnings out 24 to 48 hours in advance, and residents for acting on those warnings.

"The citizenry of Kansas did an amazing job of getting prepared for it," Brownback said. "People took it seriously, they got out of the way, they prepared for it, and as a result of that and the grace of God, we had no fatalities."

Sedgwick County fire Capt. John Troyer told Brownback that there were about 150 mobile homes in the Pinaire park. The park does have a hardened storm shelter where a lot of residents found refuge.

...WE ALL MADE A DIFFERENCE...