

# Radar LOG

| Radar Unit: SMART

| Site coords (i,j,k) | Mission Type: | Operator(s): | UTC Date: 31  
 | | | | | Presser/Moore/Biggerstaff | March 2023

| Lat (dec. degs) | Long (dec. degs) | Alt (m) | Orientation (deg) | Clutter scan  
 | 35.27881 n | 87.41447 w | 204 | 15 | performed? Y

### Radar Ops Time (UTC)

Note beginning (B) and end (E) times of ops; list periods of down (D) time along with reason for failure, and other problems.

Started radar: 2135 UTC  
 CoW is 25.9 km at 202.5° from SR1.  
 Radar down from 0653 to 0706 UTC.  
 Restarted and got one volume before it went down again.  
 Ops ended at 0709 UTC.

### Scan Strategy Notes

List scan type and time period used (chronological order); note nature and time scan mods were made (if any)

Clutter scans with 0.25 microsec pulse started at 2135. Initially no clutter filter 2135-2145utc. Then changed to clutter filter of 3 from 2148-2158. Was off-line until wx approached. Surveillance from 0243 to 0300 UTC. R60 deep and shallow at 0309-0329 utc. Offline again for lack of wx. Surveillance from 0436 to 04434 utc. R60s from 0445 to 0512 utc. R20s without clutter filter (by accident) from 0512 utc to 0653 utc. R20 with clutter filter started at 0706 utc.

### Meteorological Notes

Describe general storm structure and evolution; note position and time of significant features and events; document fine lines (gust fronts, bores, other), peak Z<sub>e</sub>, max echo tops, and height of first echo. Record time of significant sfc weather (peak wind gust, etc.)

This was a major tornado outbreak day across the midwest and southeast. Initially a series of supercells moved north along the extreme edges of the network. Later a hybrid cell moved over sr1. Crew evacuated briefly (0543 to 0644 utc) while radar was left running.

By 0645 utc, the southern part of the network had multiple tornado warned supercells moving through the area. A somewhat linear arrangement. But not a qlcs.

### Radar Images

Insert images that illustrate the general character of the event

