Radar LOG

Radar Unit:

Site coords (i,j,k)

Mission Type:

Operator(s):

UTC Date: 13 April 2022

Lat (dec. degs)	Long (dec. degs)	Alt (m)	Orientation (deg)	Clutter scan performed?
36.8016 n	-89.7457	89	272	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: 1652 UTC
CoW is 41.6 km at 199° from SR2.
Missing burst pulse at ~1706 UTC. Cold restart.
Radar restarted at 1742 UTC.
Azimuth shift at ~ 2024 UTC. Appears to have shifted CCW about 14 degrees. Will correct in post-processing. Should not be in the archived data set that is distributed.

End of ops at 2149 UTC.

Scan Strategy Notes

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

VSE-CLRT: 1652 to -1709 UTC. Restart at 1742 UTC.
Initially no clutter filter. Then changed to clutter filter of 3. Used 0.25 microsec pulse initially and then 1 microsec pulse.
VSE-SURV from 1748 to 1922 UTC.
R20s from 1922 to 2004 UTC.
R40s from 2004 to 2058 UTC
R60 from 2058 to 2114 UTC.
Birdbaths at 2114 UTC to 2118 UTC.
Ran VSE-CLTR 1 microsec with filter of 3 at 2118 to 2141 UTC. Then did VSE-CLRT with 0.25 microsec and no filter starting at 2141 UTC until end of ops.

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_e, max echo tops, and height of first echo.
Record time of significant sfc weather (peak wind gust, etc.)

Too far north for most of the interesting weather. There was a loosely organized MCS that eventually processed some more unstable air to the south and produced multiple bowing segments. Small vortices, several long-lived, developed in association with the bowing segments.

In our immediate area, the north line-end mesovortex briefly tightened in the western dd lobe. It became tornado warned but never produce a tight low-level circulation. Images to the right show the structure and circulation, such that it was.

The best circulation was between SR1 and NOXP in the southern part of the domain. SR1 was down part of the time as the circulation developed.

Probably a good non-event case to compare with the other IOPs.

Radar Images

Insert images that illustrate the general character of the event