Radar LOG

| Radar Unit: _

Site coords (i,j,k)_

| Mission Type:_ | Operator(s): _ | UTC Date:_ 24 March 2023 |

| Lat (dec. degs) 33.048597 n | Long (dec. degs) 91.216545 w | Alt (m) 32 | Orientation (deg)_ 91 | Clutter scan 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: 2138 UTC
Note that SR2 is down today due to unclean generator output.
Ops ended at 0208 utc.

Elevation drive failed at 2257 utc. Radar back up at 2336 utc. Elevation drive failed again at 0013 utc. Back up at 0042 UTC. Elevation drive failed at 0105 utc. Back up at 0127 utc.

Scan Strategy Notes

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

Ran clutter scans, first with filter level 3 and later without filter. Switched to surveillance scans at 2155 UTC. Switched to R60 deep and shallow starting at 2227 UTC. Switched to r40 shallow and deep at 2336 utc. Switched to r20 deep and shallow at 0042 utc. Switched to R40 at 0127 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_e, max echo tops, and height of first echo.
Record time of significant sfc weather (peak wind gust, etc.)

Multiple bands of convection, one prefrontal and the other along the front, with some broken lines of showers distributed before and between the more continuous bands. Prefrontal band was severe warned for an extended period of time. By 2335 UTC a supercell formed along the southern part of the prefrontal band. It later was tornado warned.

A smaller line segment formed to the sw of the radar and eventually developed into a supercell. That storm produced a tornado warned cell in Lake Providence and places to the northeast of there. Image shown is of that super cell.

Later, that same supercell produced a violent tornado that killed 23+ people in Rolling Fork, MS. SR1 data was collected right before the time the tornado struck town. But the elevation drive failed shortly thereafter.

Radar Images

Insert images that illustrate the general character of the event