

RADAR LOG

Radar Unit: SR1 **Mission Type:** QLCS

Operator(s): M. Biggerstaff; G. Carrie; R. Moore; A. Prosser

UTC Date: 02162023

Lat (deg): 32.497737 **Lon (deg):** -87.675034 **Alt (m):** 58.4 m (check)

Heading (deg): 121 **Clutter Scan Performed?** Yes

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.

(B) 18:30 UTC

(D) 18:36 UTC; Ingest files not generated, restarting radar.

(B) Post restart: 19:05 UTC.

(D) 19:51 UTC: IRIS crashed ; restarted successfully at 19:52 UTC.

(D) 00:06 UTC: Lost antenna control momentarily, restored 00:07 UTC.

(E) End of Ops: 01:44 UTC

Scan Strategy Notes

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

19:05 : x2 VSE_Clutter & x2 FILT volumes.

19:35 - 20:59 : R20_shallow; R20_deep.

21:00 - 21:50: R40_shallow; R40_deep.

22:09 - 23:59: R60_shallow; R60_deep.

01:00 - 01:17: R60_shallow; R60_deep.

01:18 - 01:44: R20_shallow; R20_deep.

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.)

High amplitude trough and associated warm sector convection in high shear environment contributed to the potential for a widespread severe weather event in the SE US. Supercellular structure passed just to the north of SR1 around 19:30 - 20:10 UTC, presenting with strong mid level rotation but weak low-level circulation. Structure linearized slightly as convection moved off to the northeast of the radar. Other weak circulations were apparent in widespread warm-sector convective activity, but no robust severe convection occurred in the Brooksville domain during this IOP. Gust frontal boundary noted near end of IOP, after 00:45 UTC.

Radar Images

Insert images that illustrate the general character of the event

