

ARMOR Operations - 4/4/18 - Severe Convection - QLCS - VORTEX-SE

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Operations of ARMOR for severe convection during the second official VSE deployment in N AL. OU SR3 was located at Courtland, OU SR2 was at the Florence, and MAX was at the Tanner site. All VCPs are defined in the VCP Excel spreadsheet. ZDR needs to be properly adjusted, is about .97 dB too high.

RHIs over the UAH SWIRLL berm disdrometers have uneven radial spacing in the low levels. SNR unfortunately not being collected. Spectrum width may serve as a viable method to remove it

2330 Z - Began watching ARMOR following class. Radar in VCP 217. Clear air return to about 40 km

0000 Z - Second trip echo a large problem. Storms showing fair amount of lightning to the west according to GLM and RadarScope Lightning

0038 Z - tested out a dual PRF scan strategy (VCP 222) then immediately back to VCP 217

0045 Z - resumed VCP 217

0030 - 0200 Z - decrease in lightning to the west

0150 Z - line is beginning to enter ARMOR range

0231 Z - switching to dual PRF VCP 222

0235 Z - Curl observed on SR2

0240 Z - Tornado warning issued on circulation near SR2

0251 Z - Switched to VCP 217

0300 Z - Switched to dual PRF VCP 223

0315 Z - Switched to dual PRF VCP 224

0330 Z - Switched to single PRF VCP 217

0340 Z - Weird radials showing up in ARMOR data. Possible error with signal processing

0342 Z - String of ARMOR pedestal faults causing the radar to stop rotating. Likely due to high winds hitting tower

0351 Z - Restarted VCP 224 after pedestal faults ended. Numerous small circulations present in leading edge

0401 Z - Switched back to single PRF VCP 217

0405 Z - End of Ops. Left in VCP 217