

NOXP PERILS 2023

Authors

- Anthony Reinhart
 - anthony.reinhart@noaa.gov
 - NSSL
 - ORCID: orcid.org/0000-0003-4601-1138
- Addison Alford
 - addison.alford@noaa.gov
 - NSSL
 - ORCID: orcid.org/0000-0001-7598-3783
- Ted Mansell
 - ted.mansell@noaa.gov
 - NSSL
 - ORCID: orcid.org/0000-0002-7561-0781

Data set overview

IOP3:

Latitude = 33.2573

Longitude = -91.2521

Altitude = 37 m

Operations Begin: 24 March 2023 2033 UTC

Operations End: 25 March 2023 0200 UTC

IOP4:

Latitude = 34.9853

Longitude = -87.2498

Altitude = 264 m

Operations Begin: 31 March 2023 2330 UTC

Operations End: 1 April 2023 0800 UTC

IOP5:

Latitude = 35.9426

Longitude = -90.9814

Altitude = 80 m

Operations Begin: 05 April 2023 1439 UTC

Operations End: 05 April 2023 1835UTC

Instrument Description:

<https://www.nssl.noaa.gov/tools/radar/mobile/>

Data collection and Processing:

- Heading fluctuations corrected
- Converted from Sigmet to CFRadial using Radx.
- Clutter scan at beginning and birth baths during some IOPs
- Low VCP: 0.5, 1.2, 1.9, 2.8, 3.8, 5.0
- High VCP: 0.5, 1.2, 1.9, 2.8, 3.8, 8.0
- 10 min sync with VCP of Low, High

Data Format:

- CFRadial

Access and view data with:

- WDSS-II
- Radx
https://www.ral.ucar.edu/projects/titan/docs/radial_formats/radx.html
- LROSE
<https://www.eol.ucar.edu/content/lidar-radar-open-software-environment>
- Py-ART