

**Title:** VORTEX-SE Meso18-19 UAH MAX Mobile Radar Data

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### **1.0 Dataset Overview**

The UAH Mobile Alabama X-Band radar (MAX) is a mobile radar platform that has an X-Band radar and a mounted surface station. Data from MAX was collected during each IOP unless otherwise noted. Locations and operating times are as follows:

IOP 1

Time Period: 2018/11/06 0030Z to 2018/11/06 0957Z

Location: 34.419 N, -86.025 W elevation: 386 m

IOP 2 - Did Not Deploy

IOP 3 - Did Not Deploy

IOP 4 - Did not deploy

IOP 5

Time Period: 2019/02/23 1806Z to 2019/02/24 0326 Z

Location: 34.8006 deg N, -87.7674 deg W elevation: 179 m

IOP 6 - Did Not Deploy

IOP 7

Time Period: 2019/03/09 1853Z to 2019/03/10 0238Z

Location: 34.8006 deg N, -87.7674 deg W elevation: 179 m

IOP 8

Time Period: 2019/04/13 2350Z to 2019/04/14 0829Z

Location: 34.8006 deg N, -87.7674 deg W elevation: 179 m

IOP 9

Time Period: 2019/04/18 1807Z to 2019/04/19 0151Z

Location: 34.8006 deg N, -87.7674 deg W elevation: 179 m

## 2.0 Instrument Description:

UAH Mobile Alabama X-Band Dual Polarization Radar  
<https://www.nsstc.uah.edu/mips/max/>

## 3.0 Data Collection and Processing:

No data correction was applied. Typical operating strategies included full volume scans in 4 to 6 minute intervals.

## 4.0 Data Format

Vaisala RAW format. An example of the file naming convention is below:

RAW\_NA\_000\_100\_20180319191517.gz

Where RAW indicates the file type, 100 indicates the scan type, 20180319 indicates the date in the format YYYYMMDD, and 191517 indicates the time in the format HHMMss.

## 5.0 Data Remarks:

Typical Operating Parameters:

Pulse Width: 0.8 microsec

PRF: 1200 Hz

Gate Spacing: 125 m

Gates: 959

Nyquist: 9.5 m/s

Range: 120 km

Access and view data with:

Radx

[http://www.ral.ucar.edu/projects/titan/docs/radial\\_formats/radx.html](http://www.ral.ucar.edu/projects/titan/docs/radial_formats/radx.html)

solo3

<https://www.eol.ucar.edu/software/solo3>