

Title: VORTEX-SE 2017 UAH RaDAPS Sodar Dataset

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1.0 Dataset Overview

As a part of the Rapidly Deployable Atmospheric Profiling System (RaDAPS) dataset, an acoustic Sodar was paired with the system. This system was always deployed with RaDAPS during the 2017 VORTEX-SE IOP.

IOP 1A

Time: 2017/03/25 0000Z to 2017/03/25 2355Z

Location: 34.7244, -86.6464 (UAH SWIRLL)

IOP 1B

Time: 2017/03/27 1625Z to 2017/03/28 0150Z

Location: 34.7047 -87.4766

IOP 2

Time: 2017/03/30 2250Z to 2017/03/31 0105Z

Location: 34.5453, -85.9084

IOP 3A -No Data

IOP3B

Time: 2017/04/05 1210Z to 2017/04/06 0335Z

Location: 34.2874, -85.9586

IOP 3.5A - No Data

IOP 3.5B

Time: 2017/04/22 2115Z to 2017/04/22 2255Z

Location: 34.7980, -86.0031

IOP 4A

Time: 2017/04/27 0140Z to 2017/04/27 0745Z

Location: 34.7047, -87.4766

IOP 4B

Time: 2017/04/28 1730Z to 2017/04/28 1955Z

Location: 34.7047, -87.4766

Time: 2017/04/28 2145Z to 2017/04/28 2350Z

Location: 34.6570, -86.8919

IOP 4C

Time: 2017/04/30 1645Z to 2017/05/01 0325Z

Location: 34.7979 -86.0032

2.0 Instrument Description

UAH utilizes the Remtech PA-0 Acoustic Sodar. Whenever operational, clutter panels are installed around the sodar to reduce ground clutter and other interference. The sodar was typically placed a few meters from the vehicle in order to reduce noise interference from the vehicle.

3.0 Data Collection and Processing

Data is collected every 5 minutes. No data processing has been completed.

4.0 Data Format

Please see the accompanying file, Sodar_Data_Format.pdf, for an explanation of the data format.