Title: VORTEX-SE 2020 UAH Drop Trailer 4-m Sonic Anemometer Dataset

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1.0 Dataset Overview

UAH Drop Trailer is a mobile surface station trailer mounted to a flatbed trailer.

2.0 Instrument Description

This platform includes a 10-m tower which is outfitted with a RM Young Wind monitor and Campbell Scientific 107 temperature probe, RM Young 81000 10 Hz sonic anemometer at 4 meters, Jenoptik CHM 15K ceilometer, and Texas Electronics tipping bucket rain gage.

3.0 Data Collection and Processing

Data is recorded at 10 Hz. No processing has been completed.

4.0 Data Format

Data is provided in CSV format. Each file is approximately 24 hours of data. File naming convention is as follows: RM81000_YYYYMMDD.dat where:

RM81000 -> instrument
YYYY -> Year
MM -> Month
DD -> Day

Data files begin with 3 descriptive header lines that are shown below:

UAH RM Young 81000 Sonic Anemometer Data
10 Hz Data
Year, Month, Day, Hour, Minute, Seconds, U-Wind, V-Wind, Z-Wind, SOS, Sonic Temp

Line 1 -> Indicates instrument type
Line 2 -> recording frequency
Line 3 -> Data column variables

5.0 Data Remarks

- No data for IOPs 1,2,3,4