Title: VORTEX-SE 2020 UAH Drop Trailer 10-m Tower 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 every 1-second. Not processing has been completed.

4.0 Data Format
Data is collected in CSV format. File naming convention is as follows: YYYMMDD_trailer_sfc.dat where:

YYYY -> Year
MM -> Month
DD -> Day
trailer_sfc -> 10m tower surface data

A sample data line is given below:

(Column #) | 0 1 2 3 4 5 6 7 8 9 10 |
101,2020,115,2359,13,11.38,24.48,21.04,0.882,141.5,0

The data file records, column by column, are:

COLUMN VARIABLE
---
0 -> Program Constant
1 -> Year
2 -> Julian Day
3-4 -> Hour & minute, Second (UTC)
5 -> Battery Voltage (V)
6 -> Panel Temp (C)

7 -> Tower Temp (10m) (C)
8 -> Wind Speed (m/s)
9 -> Wind Direction (degrees)
10 -> Rain Total (mm)

5.0 Data Remarks

- No data for IOP 1