

1. **Title: CHEESEHEAD High-resolution PBL radiosondes**
2. **Dataset Author(s) -**
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3. **Time of Interest - 2019-07-08 18:00:00 to 2020-07-13 18:00:00**
4. **Area of Interest -**
 - ISS (NW5): 45.9458333, -90.2943667
 - Box: 46.023, -90.350; 46.023, -89.309; 45.490, -89.309; 45.490, -90.350
5. **Data Frequency - 1 second (raw), 20 m levels (sounding)**
6. **Data Spatial Type - textTable**
7. **General Dataset Description -** Mid-morning and early-afternoon high-resolution PBL radiosondes launched at ISS field (NW5) and surrounding areas during IOP1 (2019 July 8-13) using Windsond weather balloon system. See PDF for quicklooks, experimental design, and maps. Data were collected by undergraduate and graduate students enrolled in UW-Madison Atmospheric and Oceanic Sciences Meteorological Measurements course.
8. **File Names -**
 - 2019-07-08_1815.raw.csv
 - 2019-07-09_1532.raw.csv
 - 2019-07-09_1613.raw.csv
 - 2019-07-10_1451.raw.csv
 - 2019-07-10_1540.raw.csv
 - 2019-07-11_1444.raw.csv
 - 2019-07-11_1548.raw.csv
 - 2019-07-12_1434.raw.csv
 - 2019-07-12_1602.raw.csv
 - 2019-07-13_1436.raw.csv

- 2019-07-13_1530.raw.csv
- 2019-07-08_1815.raw_history.csv
- 2019-07-09_1532.raw_history.csv
- 2019-07-09_1613.raw_history.csv
- 2019-07-10_1451.raw_history.csv
- 2019-07-10_1540.raw_history.csv
- 2019-07-11_1444.raw_history.csv
- 2019-07-11_1548.raw_history.csv
- 2019-07-12_1434.raw_history.csv
- 2019-07-12_1602.raw_history.csv
- 2019-07-13_1436.raw_history.csv
- 2019-07-13_1530.raw_history.csv
- 2019-07-08_1815.sounding.csv
- 2019-07-09_1532.sounding.csv
- 2019-07-09_1613.sounding.csv
- 2019-07-10_1451.sounding.csv
- 2019-07-10_1540.sounding.csv
- 2019-07-11_1444.sounding.csv
- 2019-07-11_1548.sounding.csv
- 2019-07-12_1434.sounding.csv
- 2019-07-12_1602.sounding.csv
- 2019-07-13_1436.sounding.csv
- 2019-07-13_1530.sounding.csv
- Su19-ATMOCN404_FinalPaper.pdf (course paper describing experiment)
- Windsond_Paths.pdf (map of radiosonde paths)
- Windsond-quicklooks.pdf (quicklook plots)
- windsond_readme.pdf (this file)

9. **Data restrictions** - no restrictions. See the [CHEESEHEAD Data Policy](#).

10. **Digital Object Identifier (DOI)** - <https://doi.org/10.26023/X9N9-GBY3-Q20V>.

11. **GCMD Keywords** -

- WISCONSIN
- 1 minute - < 1 hour

- In Situ Land-based Platforms
- ATMOSPHERIC PRESSURE MEASUREMENTS
- DEW POINT TEMPERATURE
- RELATIVE HUMIDITY
- VERTICAL PROFILES
- WATER VAPOR PROFILES
- WIND DIRECTION PROFILES
- WIND SPEED
- WIND VELOCITY/SPEED PROFILES

12. **Publications** - n/a