

Title: New York State Profiler Network Data

Author(s):

- Jerald A. Brotzge. Affiliation/Mailing Address: SUNY, University at Albany, LC SB-28, 1400 Washington Av., SUNY, University at Albany, NY 12222. Title: Program Manager, New York State Mesonet. Telephone: 518-442-6372. Website: <http://nysmesonet.org>
- Data contact: Stacy Brodzik. Affiliation/Mailing Address: University of Washington, Department of Atmospheric Sciences, ATG Building, Room 425C, Seattle, WA 98195. Title: Software Engineer. Telephone: 206-695-9993, Email: brodzik@uw.edu

1.0 Data Set Overview:

- Introduction to data: <http://www.nysmesonet.org/networks/profiler>
- Time period covered by the data: January 1, 2020 – February 29, 2020
- Physical location: http://www.nysmesonet.org/documents/NYSM_Readme_Profiler.pdf

2.0 Instrument Description:

- http://www.nysmesonet.org/documents/NYSM_Readme_Profiler.pdf

3.0 Data Collection and Processing:

- The data were collected in real-time and have not had any quality control applied

4.0 Data Format:

- The data are available in both json (JavaScript Object Notation) and netcdf formats. Lidar and MWR data are in separate files.
- The data are written in daily files by site with a time resolution of ten minutes.
- Units are available in netcdf file headers. Netcdf file headers also contain FillValue and long_name for each variable.

5.0 Data Remarks:

- The time stamp is at the beginning of the interval.
- The raw json files contain both lidar and MWR data. The lidar and MWR data has been broken into separate files for this archive. The raw files generally were available every ten minutes and contained data for the previous 24 hours. The logical thing to do would have been to save the last file for each day for this archive. However, there were times when the last file of the day was missing the last ten or twenty minutes of data. That data was made available with the next day's files. However, due to the complexity of the json data, it was not trivial to concatenate all the file for one day into a single file. When this occurs, there are two json files that contain all the data for a single day, even though they contain redundant data. For example, '20200126_0000_to_20200126_2340-resampled.LIDAR.ALBA.json' contains data from 20200126/0000 to 20200126/2340 and '20200126_0010_to_20200126_2350-resampled.LIDAR.ALBA.json' contains data from 20200126/0010 to 20200126/2350. Individually, they do not cover the entire day but together they cover the time span from 0000 through 2350. Both are available in this archive.
- Due to the issues with the json files, the netcdf files might be missing some of the last times for the day. If every datapoint is needed, you should use the json data. The netcdf files are available for those not familiar with using json data.