Appendix 7-3

Ambient Pre-Construction Sound Level Measurement Program

Riverside Solar Project

PRE-CONSTRUCTION SOUND LEVEL MEASUREMENT PROGRAM

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1.0 BASELINE SOUND LEVEL MONITORING PROGRAM

To characterize the existing soundscape of the Project area, an ambient (baseline) monitoring program was conducted in accordance with the NYS Office of Renewable Energy (ORES) Section 94-c Section 900-2.8(i) Exhibit 7: Noise and Vibration requirements. This section outlines the methodology and results of the ambient program.

1.1 Sound Level Measurement Locations

In accordance with ANSI S12.9-1992/Part 2 (R2013), the deterministic spatial sampling technique was used to select measurement locations. In other words, sound monitoring locations were selected to be representative of nearby residences in various directions from the solar project. Thus, the selected locations are representative of potentially impacted receptors. The program was intended to measure total ambient sound in the area which includes all noise sources.

One sound level measurement program was conducted at six (6) locations for approximately eight (8) days which is well beyond the minimum requirement of four (4) days for a solar facility in the Section 94-c regulations. Figure 1-1 shows the measurement locations for the measurement program. The ambient measurement locations are representative of the general vicinity of the Project. Each sound level monitoring location is described in the following subsections.

The coordinates for the sound level measurement locations are listed in Table 1-1, which were slightly adjusted as needed from the field-measured Global Positioning System (GPS) points for refined accuracy.

Table 1-1 GPS Coordinates – Sound Level Measurement Locations

Location	Latitude	Longitude
Location 1	44.0543°	-76.1241°
Location 2	44.0571°	-76.1124°
Location 3	44.0678°	-76.1200°
Location 4	44.0590°	-76.0997°
Location 5	44.0618°	-76.0866°
Location 6	44.0696°	-76.0663°

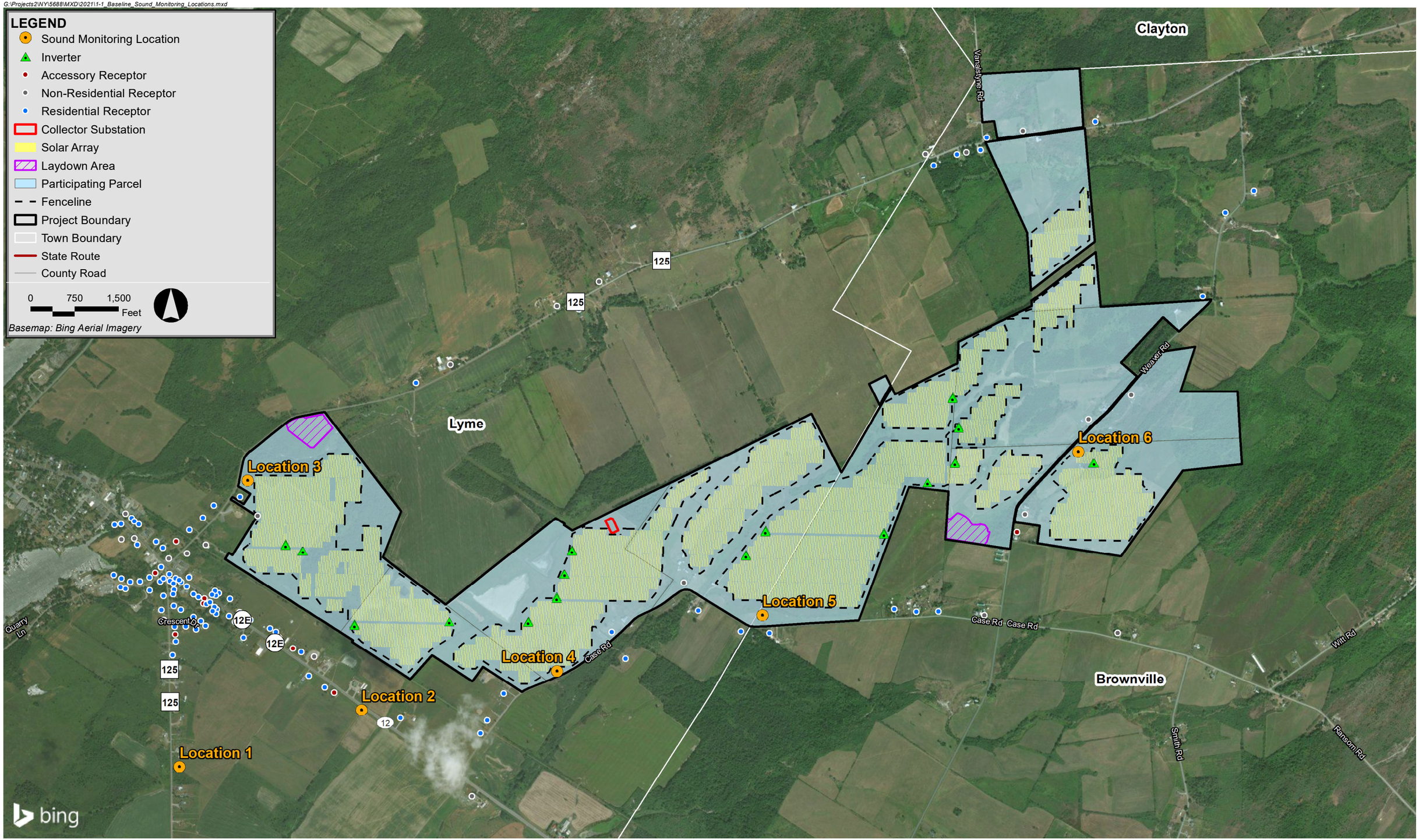
G:\Projects2\NY\5688\MXD\2021\1-1_Baseline_Sound_Monitoring_Locations.mxd

LEGEND

- Sound Monitoring Location
- Inverter
- Accessory Receptor
- Non-Residential Receptor
- Residential Receptor
- Collector Substation
- Solar Array
- Laydown Area
- Participating Parcel
- Fenceline
- Project Boundary
- Town Boundary
- State Route
- County Road

0 750 1,500 Feet

Basemap: Bing Aerial Imagery



Riverside Solar Project **Jefferson County, NY**

Epsilon ASSOCIATES INC.

Figure 1-1

Baseline Sound Monitoring Locations

1.1.1 Location 1— Guffins Bay Estate Road

One continuous programmable, unattended sound level meter was placed near Guffins Bay Estate Road in the Town of Lyme. The meter was placed approximately 130 feet east of the road near a crop field. This location is representative of existing sound levels in the southwestern area of the project site and along Guffins Bay Estate Road. Refer to Figure 1-2 for a photo of the monitoring setup.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 10:30 a.m. Wednesday, September 16, 2020 until 9:30 a.m. on Thursday, September 24, 2020. In total, 1,146 10-minute measurement periods were recorded during the measurement program.

Figure 1-2 Location 1 -- Sound Level Meter

1.1.2 Location 2—NY-12E

One continuous programmable, unattended sound level meter was placed near NY-12E in the Town of Lyme. The meter was placed approximately 65 feet southwest of the road and is representative of existing sound levels in the western area of the Project Site and along NY-12E. Refer to Figure 1-3 for a photo of the monitoring setup.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 11:50 p.m. Wednesday, September 16, 2020 until 11:00 a.m. on Thursday, September 24, 2020. In total, 1,147 10-minute measurement periods were recorded during the measurement program.

Figure 1-3 Location 2 - Sound Level Meter

1.1.3 Location 3 – Morris Tract Road

One continuous programmable, unattended sound level meter was placed near Morris Tract Road in the Town of Lyme. The meter was placed approximately 160 feet east of the road and is representative of existing sound levels in the northwestern area of the Project Site and along Morris Tract Road. Refer to Figure 1-4 for a photo of the monitoring setup.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 11:10 a.m. Wednesday, September 16, 2020 until 10:00 a.m. on Thursday, September 24, 2020. In total, 1,145 10-minute measurement periods were recorded during the measurement program.

In addition to sound data collection, continuous ground-level wind speed data were collected at this location. The meteorological equipment setup is shown in Figure 1-5.

Figure 1-4 Location 3 - Sound Level Meter

Figure 1-5 Location 3 - Meteorological Tower

1.1.4 Location 4 – Case Road

One continuous programmable, unattended sound level meter was placed near Case Road in the Town of Lyme. The meter was placed approximately 100 feet northwest of the road and is

representative of existing sound levels in the central area of the Project Site and along Case Road. Refer to Figure 1-6 for a photo of the monitoring setup.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 12:30 p.m. Wednesday, September 16, 2020 until 11:30 a.m. on Thursday, September 24, 2020. In total, 1,146 10-minute measurement periods were recorded during the measurement program.

Figure 1-6 Location 4 - Sound Level Meter

1.1.5 Location 5 – Case Road

One continuous programmable, unattended sound level meter was placed along Case Road in the Town of Lyme. The meter was placed approximately 205 feet north of the road and is representative of existing sound levels in the central area of the Project Site and along Case Road. Refer to Figure 1-7 for a photo of the monitoring setup.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 2:00 p.m. Wednesday, September 16, 2020 until 12:00 p.m. on Thursday, September 24, 2020. In total, 1,140 10-minute measurement periods were recorded during the measurement program.

In addition to sound data collection, continuous ground-level wind speed data were collected at this location. The meteorological equipment setup is shown in Figure 1-8.

Figure 1-7 Location 5 - Sound Level Meter

Figure 1-8 Location 5 - Meteorological Tower

1.1.6 Location 6 — Weaver Road

One continuous programmable, unattended sound level meter was placed near Lockport Road in the Town of Brownville. The meter was placed approximately 135 feet southeast of the road and is representative of existing sound levels in the eastern area of the Project Site and along Weaver Road. Refer to Figure 1-9 for a photo of the monitoring setup.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 2:40 p.m. Wednesday, September 16, 2020 until 12:50 p.m. on Thursday, September 24, 2020. In total, 1,141 10-minute measurement periods were recorded during the measurement program.

Figure 1-6 Location 6 - Sound Level Meter

1.2 Sound Level Measurement Instrumentation

Each of the monitoring locations used either a Larson Davis (LD) model 831[1] sound level meter (SLM), a Larson Davis model 831C[2] SLM, or a Norsonic model Nor140[3] SLM to measure both A-weighted (dBA) and one third octave bands from 6.3Hz to 20,000Hz. A one-second time history data collection using the "fast" response setting was also implemented. The meters logged data every 10-minutes with statistical data for the L_{eq} and L_{90} among other parameters.

Each instrument was equipped with a LD PRM 831 preamplifier and a PCB 377B20 or a PCB 377C20 half inch microphone, or a Norsonic Nor1209 preamplifier and a G.R.A.S 40AN half inch microphone along with an environmental protection kit. The kit included a 7-inch open cell foam wind screen to reduce wind-induced noise over the microphone. A peer-reviewed study presenting the windscreen insertion loss data by one-third octave band for each wind screen used in the background monitoring is provided in Appendix A. Since all measured sound level results are presented in terms of ANS weighting (see discussion in section 2.1), frequencies above 1250 Hz are not included, and thus the minor microphone insertion losses at higher frequencies are not relevant.

Microphones were tripod-mounted at a height of approximately five feet (1.5 meters) above ground level in accordance with ANSI S12.9-1992/Part 2 (R2013). Horizontal microphone placements near roadways were in accordance with ANSI S12.9-1992/Part 2 (R2013) for open land.

The LD831, LD831C, and B&K2250 meters meet Type 1 ANSI/ASA S1.4, ANSI S1.43-1997 (R2007), and IEC 61672 Class 1 standards for sound level meters and were calibrated and certified as accurate to standards set by the National Institute of Standards and Technology. The octave band filters for all instrumentation meet ANSI S1.11-2004 (R2009). These calibrations were conducted by an independent laboratory within 12 months of field placement and certificates of calibration are provided in Appendix B. All measurement equipment was calibrated in the field before and after the surveys with the manufacturer's acoustical calibrator which meets the standards of IEC 60942-2003 Class 1L and ANSI/ASA S1.40-2006 (R2016).

1.3 Meteorological Instrumentation

1.3.1 Ground Level Winds

Wind speed can have a strong influence on ambient sound levels. In order to understand how the existing sound levels are influenced by wind speed, a HOBO H21-002 or a HOBO H21-USB

[1] Noise floor specified in manufacturer's manual with use of PRM831 preamplifier and 377B02 microphone for A-weighted sound pressure levels is 18dBA at a 0dB gain and 17dBA at a 20dB gain. Noise floor specified for Z-weighted sound pressure levels is 23dBA at a 0dB gain and 21dBA at a 20dB gain.

[2] Noise floor specified in manufacturer's manual with use of PRM831 preamplifier and 377B02 microphone for A-weighted sound pressure levels is 16dBA at a 0dB gain and 16dBA at a 20dB gain. Noise floor specified for Z-weighted sound pressure levels is 23dBA at a 0dB gain and 23dBA at a 20dB gain.

[3] Noise floor specified in manufacturer's manual A-weighted sound pressure levels is 25dBA with self-noise of the SLM at 15dBA.

micro-weather station (manufactured by Onset Computer Corporation) with tripod and data logger was used to record continuous wind speed data at Location 3 and Location 5.

The HOBO wind instruments have a measurement range of 0 to 44 m/s (99 mph) or 0 to 76 m/s (170 mph) and an accuracy of +/- 0.5 m/s (1.1 mph) or +/- 1.1 m/s (2.4 mph). The starting threshold is 0.5 m/s (1.1 mph) or ≤1.0 m/s (2.2 mph).

1.3.2 Precipitation, Temperature, and Relative Humidity

Precipitation, temperature, and relative humidity data from the New York State Mesonet system were collected during the measurements. The New York State Mesonet consists of 125 state-of-the-art environmental monitoring stations and serves as the foundation of an Early Warning Severe Weather Detection network for the entire State of New York. The New York State Mesonet was developed by research scientists at the State University of New York (SUNY) at Albany's Atmospheric Sciences Research Center, and Department of Atmospheric and Environmental Sciences. Mesonet sites are distributed statewide with every county across New York having at least one or more sites. The Mesonet collects measurements of several surface and atmospheric variables, such as temperature, relative humidity, wind speed and direction, surface pressure, soil moisture, soil temperature, solar radiation, and precipitation amounts for rainfall and snow accumulation. These data are archived and available to the public.

The Cape Vincent Mesonet station is located approximately 10.6 miles south-southeast from the closest Riverside Solar sound level measurement location. This Mesonet station is the closest to the Project site. The SUNY Mesonet data from the Riverside station is provided in Appendix C of this report.

1.4 Low Frequency and Infrasound Monitoring

Although not relevant to solar energy projects, all monitoring locations were equipped to measure existing levels of low frequency and infrasound down to 6.3 Hz for informational purposes.

2.0 BASELINE SOUND LEVEL MONITORING RESULTS

This chapter discusses the results from the detailed ambient (baseline) monitoring program outlined in the previous chapter. Specifically, the logic for data validity, and sound level result descriptions for the monitoring locations are explained.

2.1 Data Formatting Overview

Sound level data were collected in 10-minute intervals[4] at six strategically selected locations around the proposed solar energy project. Monitoring periods that experienced elevated ground-level wind speeds or precipitation were excluded from the data analysis per Method #1 in ANSI S12.18-1994. According to this standard, "No sound level measurement shall be made when the average wind velocity exceeds 5 m/s when measured at a height of 2±0.2 m above the ground". In addition, "Measurement during precipitation […] is highly discouraged". Precipitation events identified at the SUNY MesoNet station in Cape Vincent, NY defined periods for which sound level data were excluded from the analysis for the measurement program. By convention, daytime is defined as the hours from 7:00 AM through 9:59 PM and nighttime is defined as the hours from 10:00 PM through 6:59 AM.

The sound level equipment used in ambient monitoring have specifications regarding operative ranges under certain air conditions, e.g., temperature and relative humidity.[5,6] Data from the Cape Vincent MesoNet station was additionally referenced for the range exceedances during all measurement timeframes. Sound levels during these exceedances were excluded from further processing.

Intermittent noise was automatically filtered by using the L_{90} statistic. Seasonal noise was removed from the ambient sound level measurements regardless of season. A high-frequency natural sound (HFNS) filter was applied to the measured one-third octave-band data from which a broadband sound level was calculated for the monitoring period. This technique removes all sound energy above the 1,250 Hertz frequency band. The methodology for the filtration process is as specified in ANSI/ASA S12.100-2014 as required by Section 900-2.8(i) of the Section 94-c regulations. The calculated sound pressure levels presented in Chapter 3 of this report using this methodology are indicated as ANS-weighted levels (presented in dBA). The "as-measured"

[4] It should be noted that all sound level instrumentation and ground level meteorological instrumentation were time-synchronized to align the monitoring periods.

[5] Periods measured outside the temperature range of 14°F to 122°F were considered invalid due to the Larson Davis Model 831 and 831C SLM and specifications.

[6] Periods measured outside the relative humidity range of 1 to 99% were considered invalid based on microphone specifications. The accuracy of sound levels measured with a Larson Davis Model 831 SLM outside the relative humidity range of 25% to 90% is unknown; however, the data are not considered invalid and are included in the data summaries. The same is true for sound levels measured with a Norsonic Nor140 SLM outside the range of 5% to 90% relative humidity.

broadband A-weighted (dBA) L_{eq} and L_{90} and one-third octave band ambient sound levels are presented graphically for each location in the following subsections. The one-third octave-band data span the frequencies from 12.5 Hz to 10,000 Hz.

2.2 Location 1 – Guffins Bay Road Road

Sound levels at Location 1 were influenced by vehicular traffic, birds, insects, wind, vegetation rustle, and dogs. The measured A-weighted L_{eq} and L_{90} sound pressure levels during the measurement program are presented graphically in Figure 2-1. This figure includes ground-level wind speeds measured at Location 3. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or precipitation or instrumentation operative exceedances as recorded at the Cape Vincent MesoNet station, are identified in the figure. A total of 13 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 1133 10-minute periods of valid data.

In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 1 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-2, as logarithmic averages of the equivalent (L_{eq}) sound levels; separated by daytime and nighttime. The "spikes" in the 4,000 Hz and 10,000 Hz octave bands for the nighttime measurement period were likely due to insect activity and the "spike" in the 4,000 Hz octave band for the daytime measurement period was likely due to bird and insect activity.

2.3 Location 2 – NY-12E

Sound levels at Location 2 were influenced by vehicular traffic, birds, insects, wind, and vegetation rustle. The measured A-weighted L_{eq} and L_{90} sound pressure levels during the measurement program are presented graphically in Figure 2-3. This figure includes ground-level wind speeds measured at Location 3. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or precipitation or instrumentation operative exceedances as recorded at the Cape Vincent MesoNet station, are identified in the figure. A total of 13 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 1134 10-minute periods of valid data.

In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 2 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-4, as logarithmic averages of the equivalent (L_{eq}) sound levels; separated by daytime and nighttime. The "spike" in the 8,000 Hz octave band for the daytime measurement period was likely due to bird and insect activity.

2.4 Location 3 – Morris Tract Road

Sound levels at Location 3 were influenced by vehicular traffic, birds, insects, wind, vegetation rustle, dogs, sirens, and backup beepers. The measured A-weighted L_{eq} and L_{90} sound pressure levels during the measurement program are presented graphically in Figure 2-5. This figure includes ground-level wind speeds measured at Location 3. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or precipitation or instrumentation operative exceedances as recorded at the Cape Vincent MesoNet

station, are identified in the figure. A total of 13 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 1132 10-minute periods of valid data.

In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 3 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-6, as logarithmic averages of the equivalent (L_{eq}) sound levels; separated by daytime and nighttime. The "spikes" in the 4,000 Hz octave band for the nighttime measurement period were likely due to insect activity and the spike in the 8,000 Hz octave band for the daytime measurement periods were likely due to bird and insect activity.

2.5 Location 4 – Case Road

Sound levels at Location 4 were influenced by vehicular traffic, birds, insects, wind, vegetation rustle, and backup beepers. The measured A-weighted L_{eq} and L_{90} sound pressure levels during the measurement program are presented graphically in Figure 2-7. This figure includes ground-level wind speeds measured at Location 5. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or precipitation or instrumentation operative exceedances as recorded at the Cape Vincent MesoNet station, are identified in the figure. A total of 13 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 1133 10-minute periods of valid data.

In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 4 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-8, as logarithmic averages of the equivalent (L_{eq}) sound levels; separated by daytime and nighttime. The "spike" in the 8,000 Hz octave band for the daytime measurement period were likely due to bird and insect activity.

2.6 Location 5 – Case Road

Sound levels at Location 5 were influenced by vehicular traffic, farming equipment, birds (including roosters), insects, wind, vegetation rustle, homeowner activity, dogs, a lawnmower, and an ATV. The measured A-weighted L_{eq} and L_{90} sound pressure levels during the measurement program are presented graphically in Figure 2-9. This figure includes ground-level wind speeds measured at Location 5. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or precipitation or instrumentation operative exceedances as recorded at the Cape Vincent MesoNet station, are identified in the figure. A total of 13 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 1,127 10-minute periods of valid data.

In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 5 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-10, as logarithmic averages of the equivalent (L_{eq}) sound levels; separated by daytime and nighttime. The "spikes" in the 4,000

Hz octave band for the nighttime measurement period were likely due to insect activity. The "spikes" in the 125 Hz and 8,000 Hz octave bands during the daytime measurement are likely due to homeowner activity, and bird and insect activity respectively.

2.7 Location 6 – Weaver Road

Sound levels at Location 6 were influenced by vehicular traffic, birds, geese, insects, frogs, wind, and vegetation rustle. The measured A-weighted L_{eq} and L_{90} sound pressure levels during the measurement program are presented graphically in Figure 2-11. This figure includes ground-level wind speeds measured at Location 5. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or precipitation or instrumentation operative exceedances as recorded at the Cape Vincent MesoNet station, are identified in the figure. A total of 13 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 1128 10-minute periods of valid data.

In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 6 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-12, as logarithmic averages of the equivalent (L_{eq}) sound levels; separated by daytime and nighttime. The "spike" in the 4,000 Hz octave band for the nighttime measurement period was likely due to insect activity and "spike" in the 8,000 for the daytime measurement period was likely due to bird and insect activity. The "spikes" in the 100 Hz, 200 Hz, and 315 Hz octave bands during the daytime measurement period are likely due to a lawn mower.

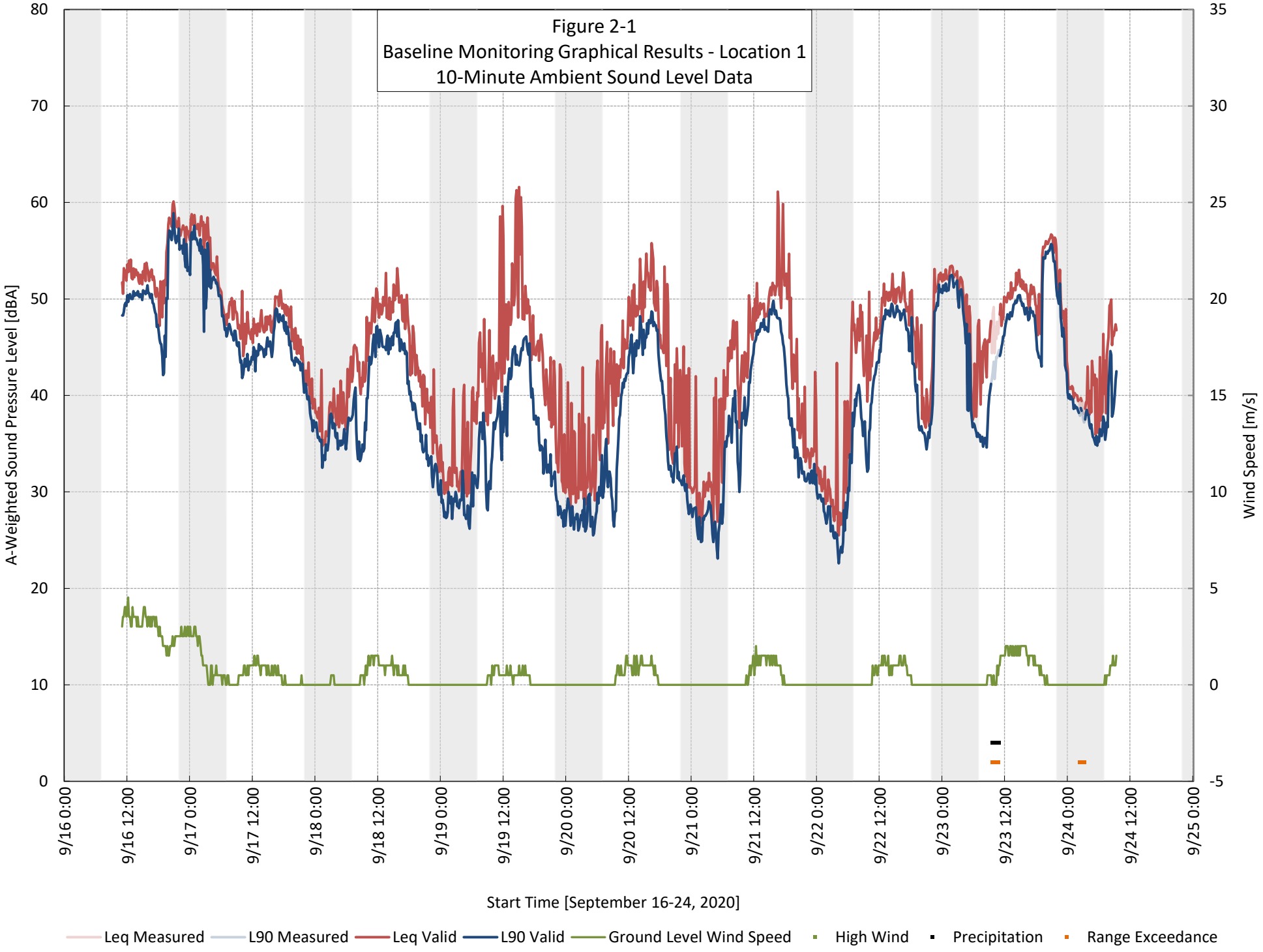
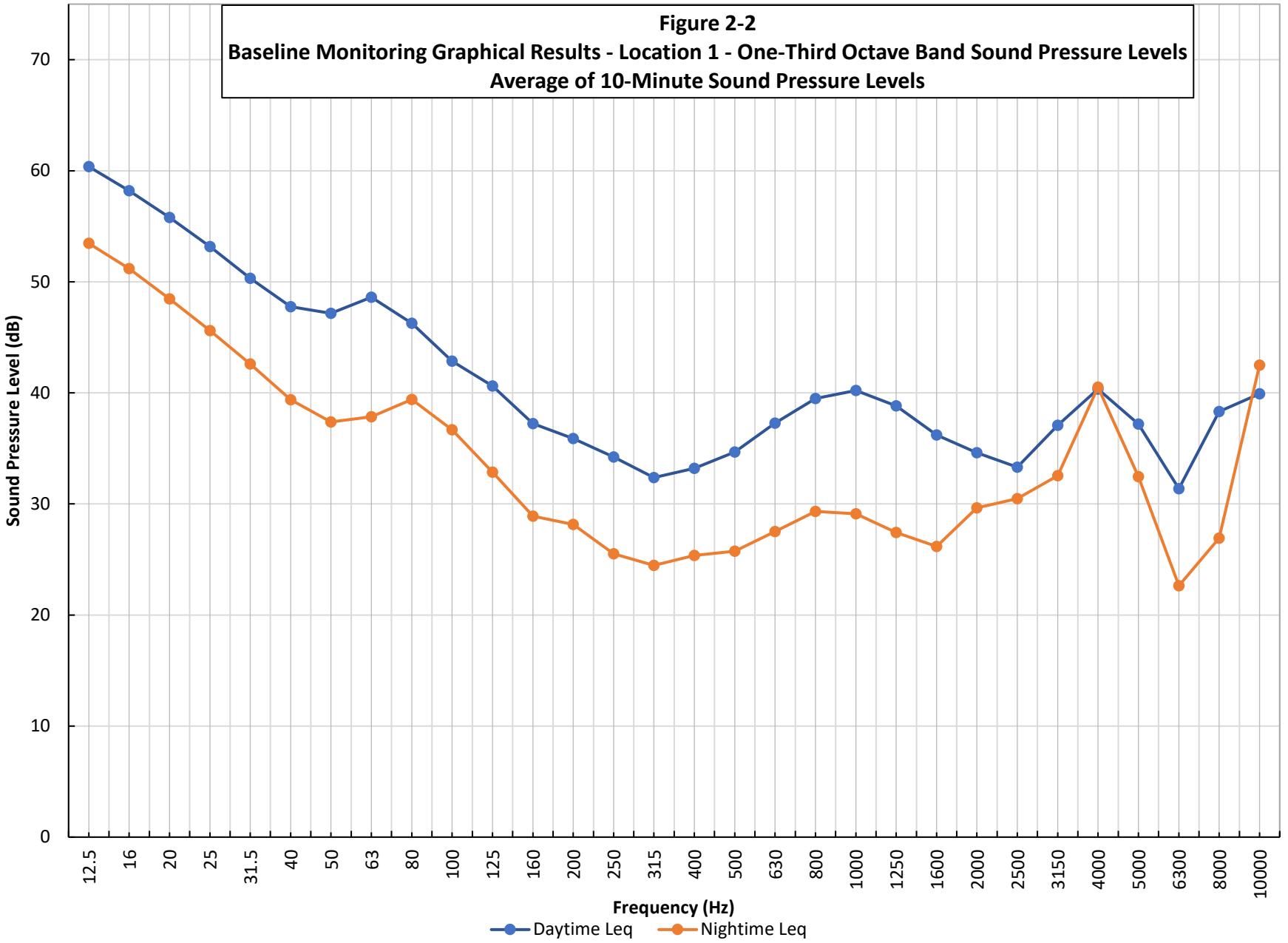


Figure 2-1
Baseline Monitoring Graphical Results - Location 1
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
80
70
60
50
40
30
20
10
0
35
30
25
20
15
10
5
0
-5
9/16 0:00
9/16 12:00
9/17 0:00
9/17 12:00
9/18 0:00
9/18 12:00
9/19 0:00
9/19 12:00
9/20 0:00
9/20 12:00
9/21 0:00
9/21 12:00
9/22 0:00
9/22 12:00
9/23 0:00
9/23 12:00
9/24 0:00
9/24 12:00
9/25 0:00
Start Time [September 16-24, 2020]
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance

Figure 2-2
Baseline Monitoring Graphical Results - Location 1 - One-Third Octave Band Sound Pressure Levels
Average of 10-Minute Sound Pressure Levels



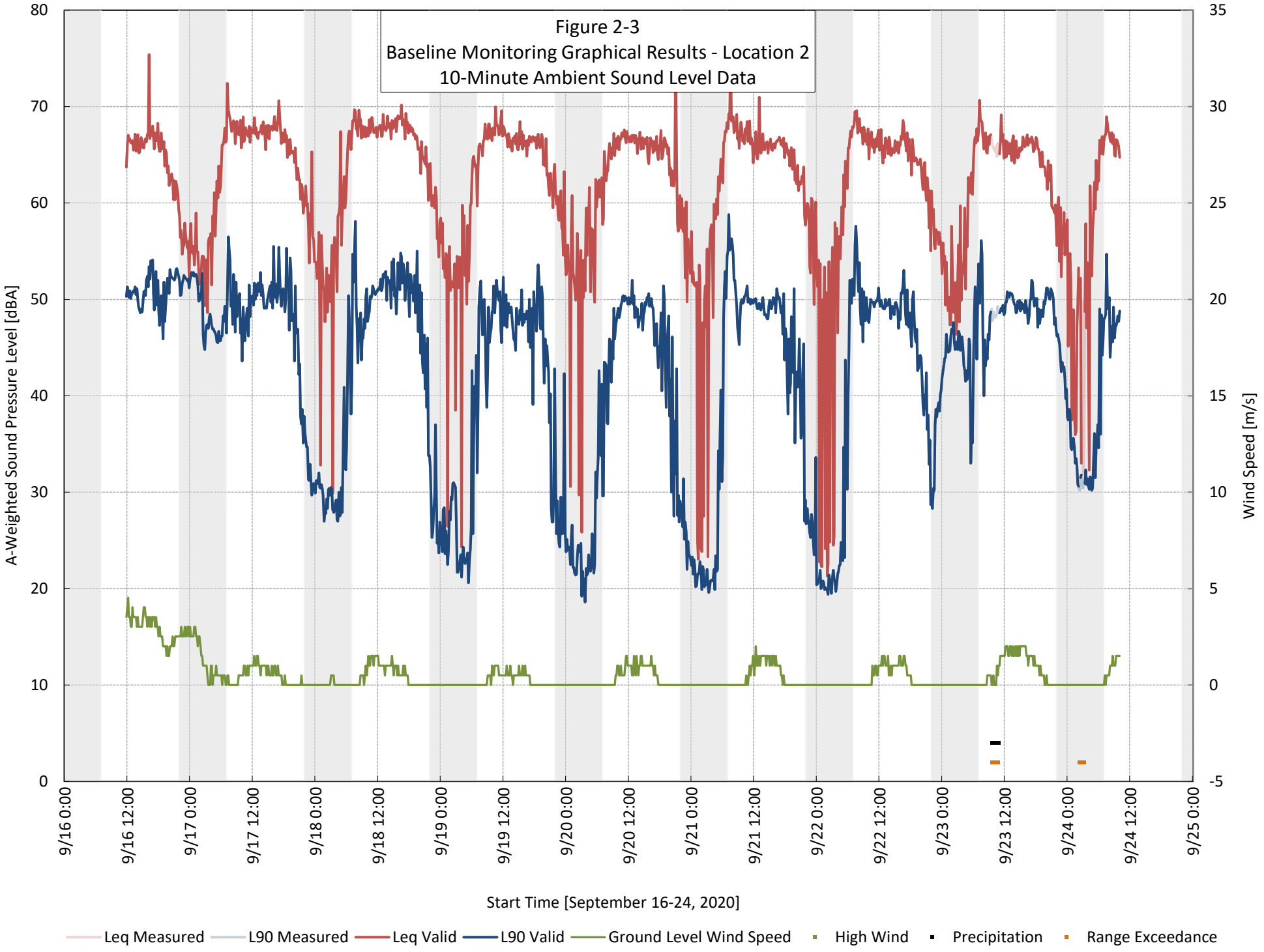
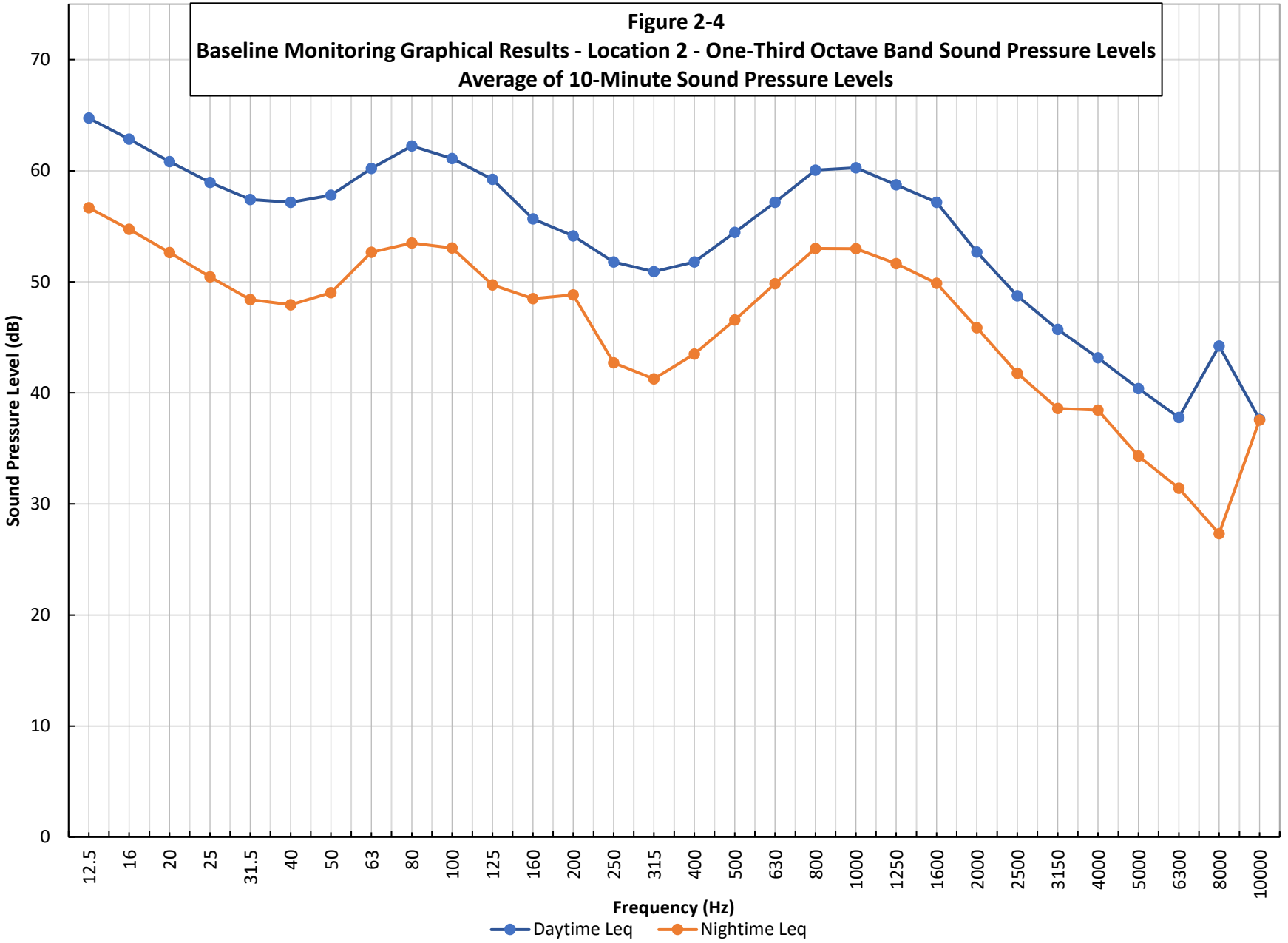


Figure 2-3
Baseline Monitoring Graphical Results - Location 2
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
80
70
60
50
40
30
20
10
0
35
30
25
20
15
10
5
0
-5
9/16 0:00
9/16 12:00
9/17 0:00
9/17 12:00
9/18 0:00
9/18 12:00
9/19 0:00
9/19 12:00
9/20 0:00
9/20 12:00
9/21 0:00
9/21 12:00
9/22 0:00
9/22 12:00
9/23 0:00
9/23 12:00
9/24 0:00
9/24 12:00
9/25 0:00
Start Time [September 16-24, 2020]
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance

Figure 2-4
Baseline Monitoring Graphical Results - Location 2 - One-Third Octave Band Sound Pressure Levels
Average of 10-Minute Sound Pressure Levels



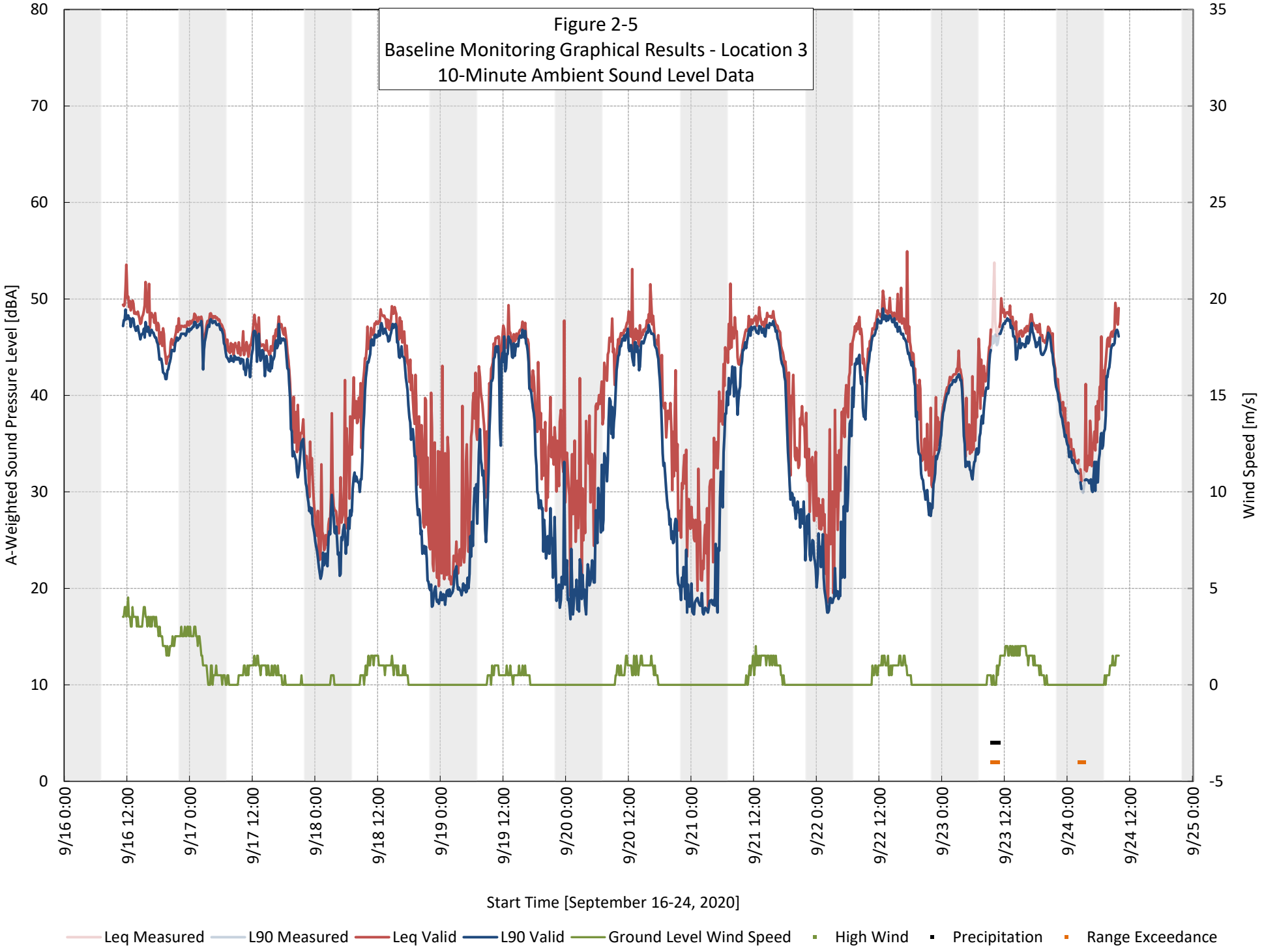


Figure 2-5
Baseline Monitoring Graphical Results - Location 3
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
80
70
60
50
40
30
20
10
0
35
30
25
20
15
10
5
0
-5
9/16 0:00
9/16 12:00
9/17 0:00
9/17 12:00
9/18 0:00
9/18 12:00
9/19 0:00
9/19 12:00
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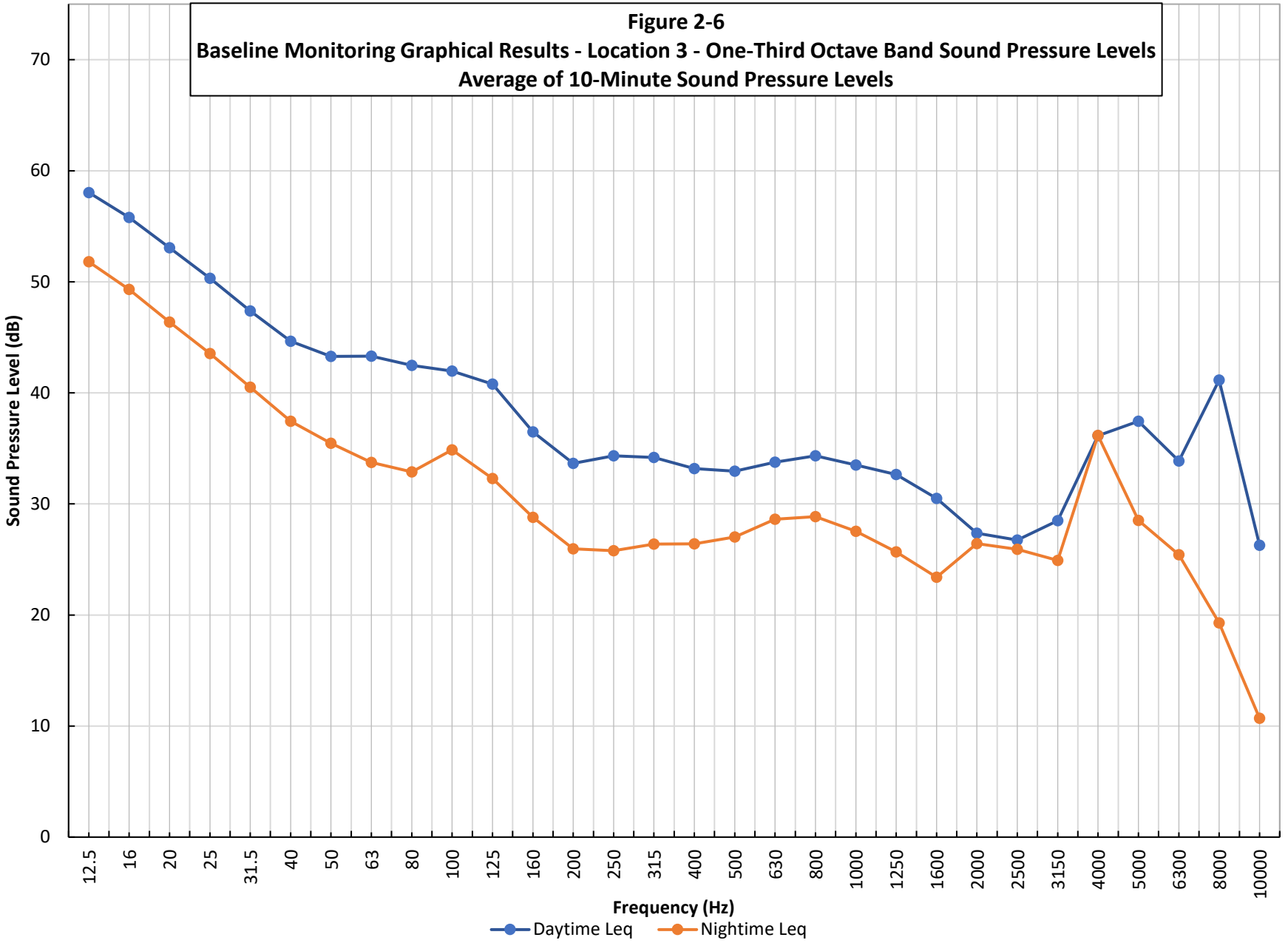
9/20 12:00
9/21 0:00
9/21 12:00
9/22 0:00
9/22 12:00
9/23 0:00
9/23 12:00
9/24 0:00
9/24 12:00
9/25 0:00
Start Time [September 16-24, 2020]
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance

Figure 2-6
Baseline Monitoring Graphical Results - Location 3 - One-Third Octave Band Sound Pressure Levels
Average of 10-Minute Sound Pressure Levels



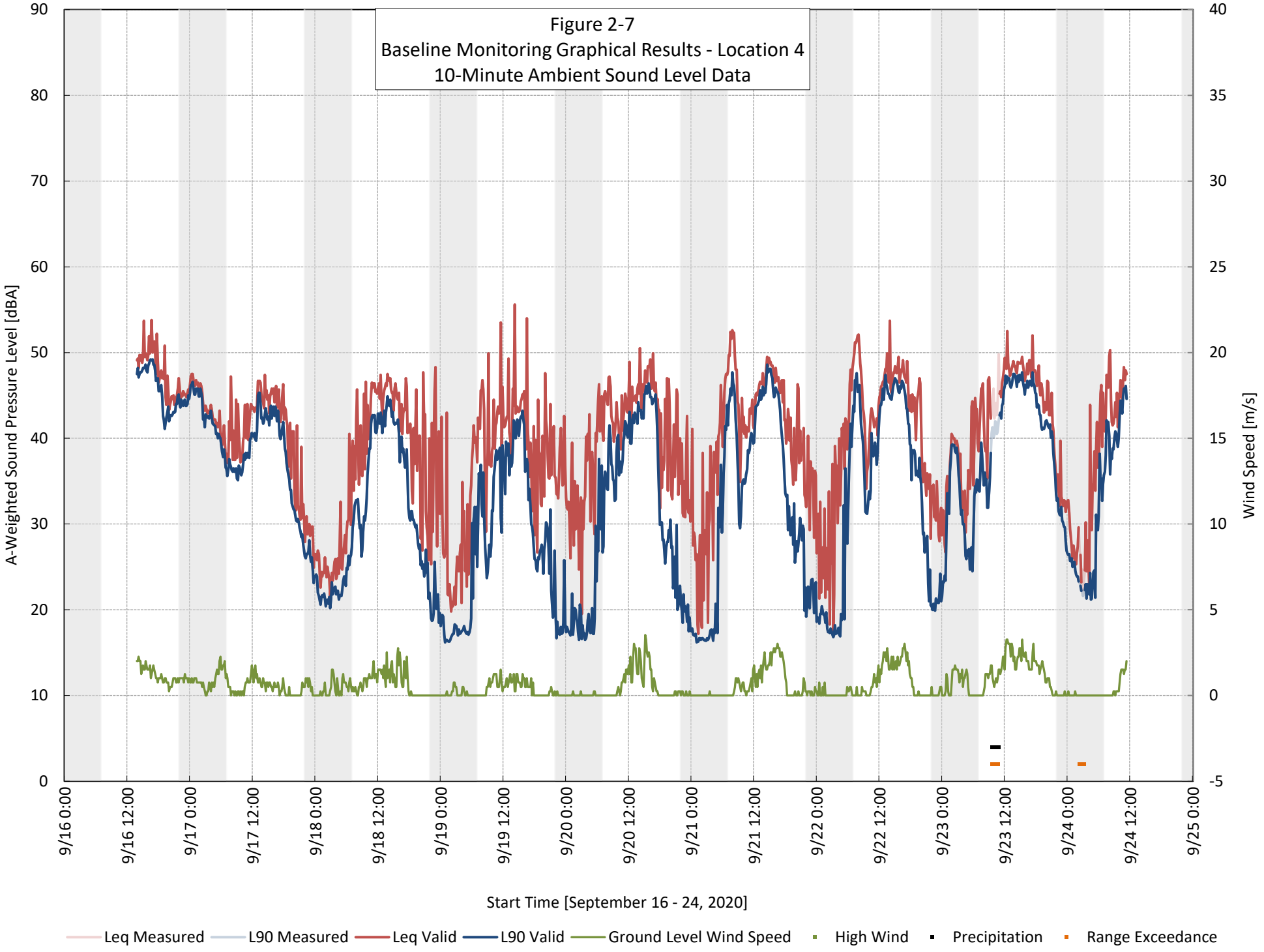
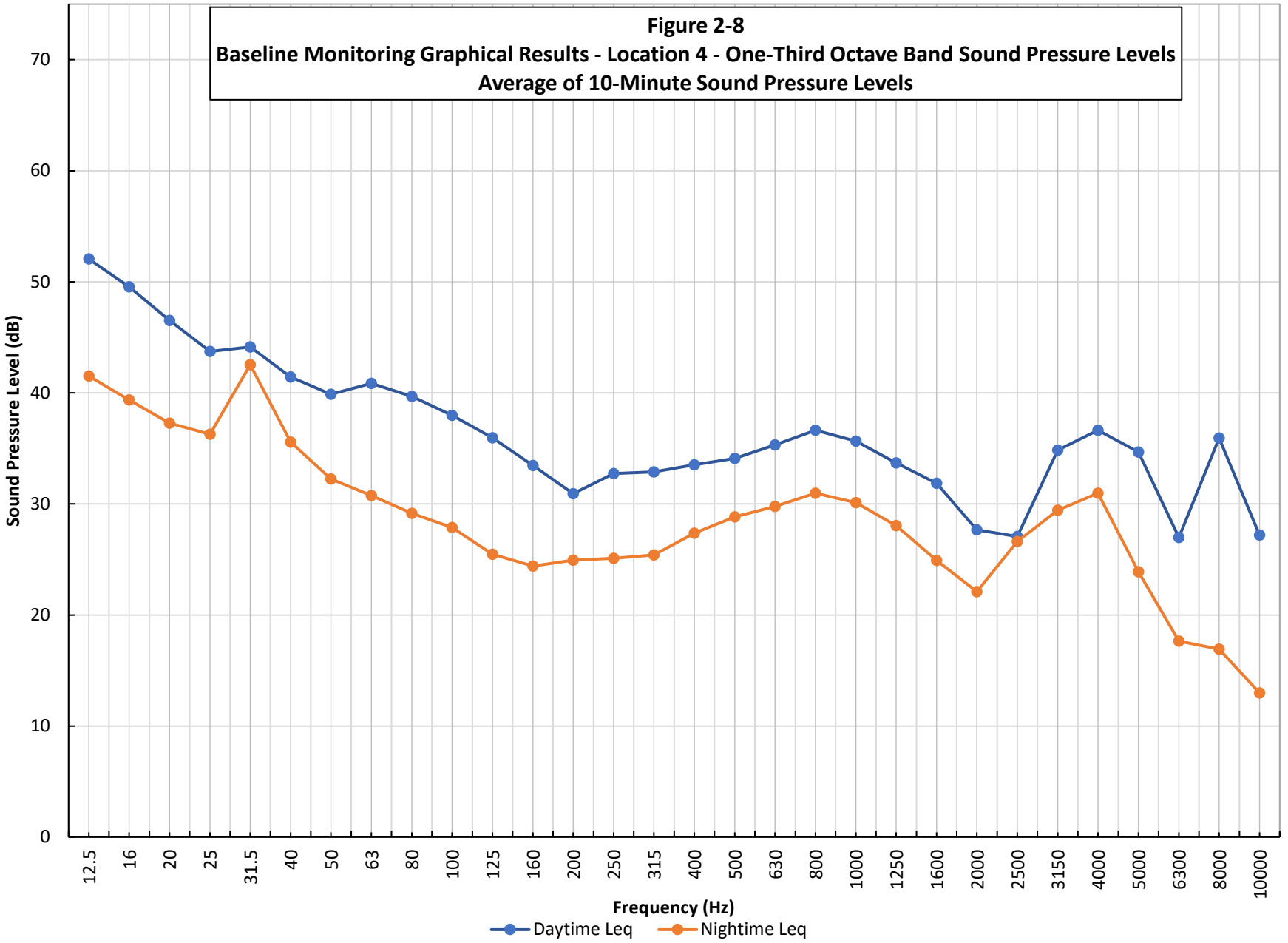


Figure 2-7
Baseline Monitoring Graphical Results - Location 4
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
90
80
70
60
50
40
30
20
10
0
40
35
30
25
20
15
10
5
0
-5
9/16 0:00
9/16 12:00
9/17 0:00
9/17 12:00
9/18 0:00
9/18 12:00
9/19 0:00
9/19 12:00
9/20 0:00
9/20 12:00
9/21 0:00
9/21 12:00
9/22 0:00
9/22 12:00
9/23 0:00
9/23 12:00
9/24 0:00
9/24 12:00
9/25 0:00
Start Time [September 16 - 24, 2020]
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance

Figure 2-8
Baseline Monitoring Graphical Results - Location 4 - One-Third Octave Band Sound Pressure Levels
Average of 10-Minute Sound Pressure Levels



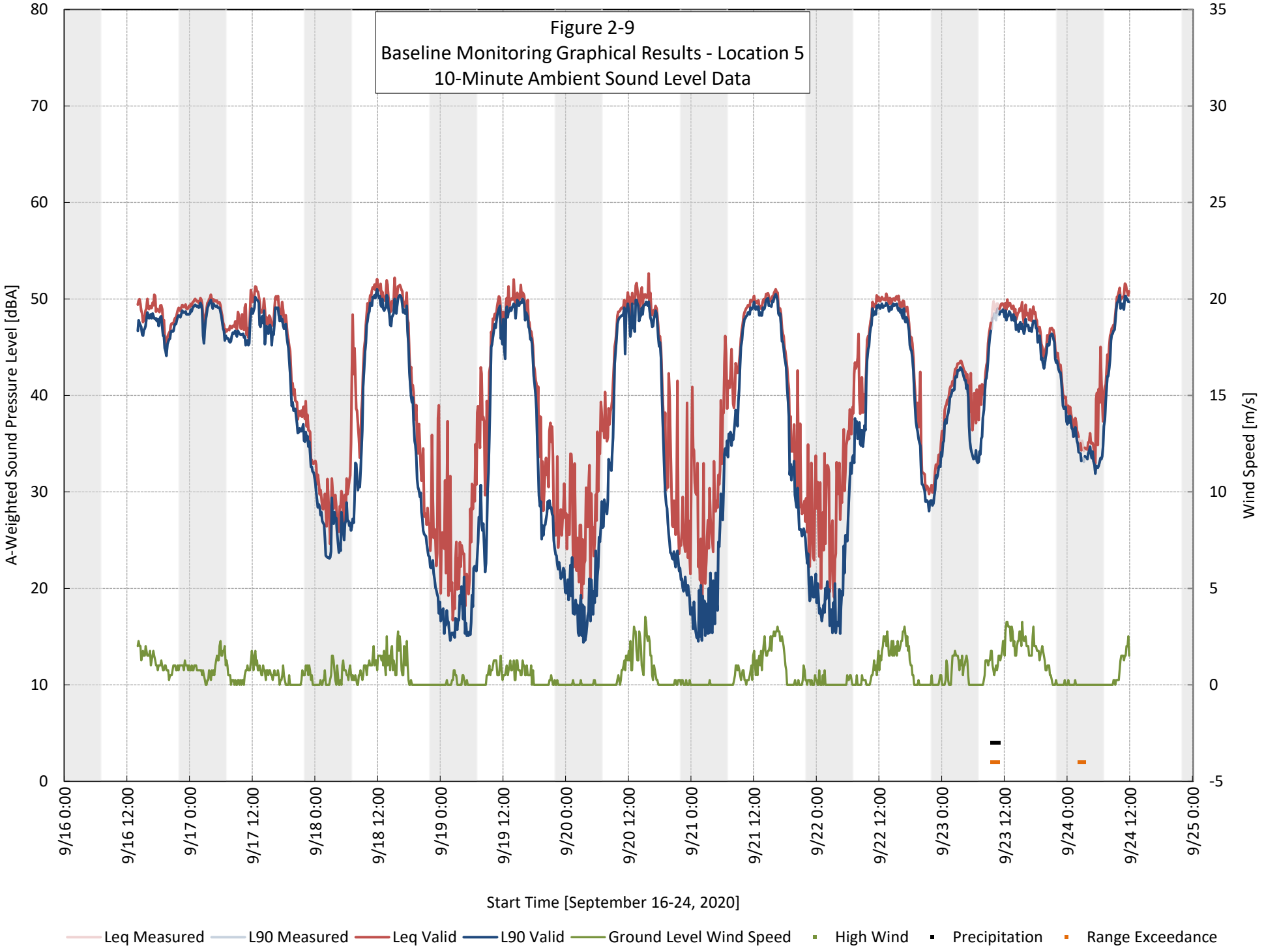
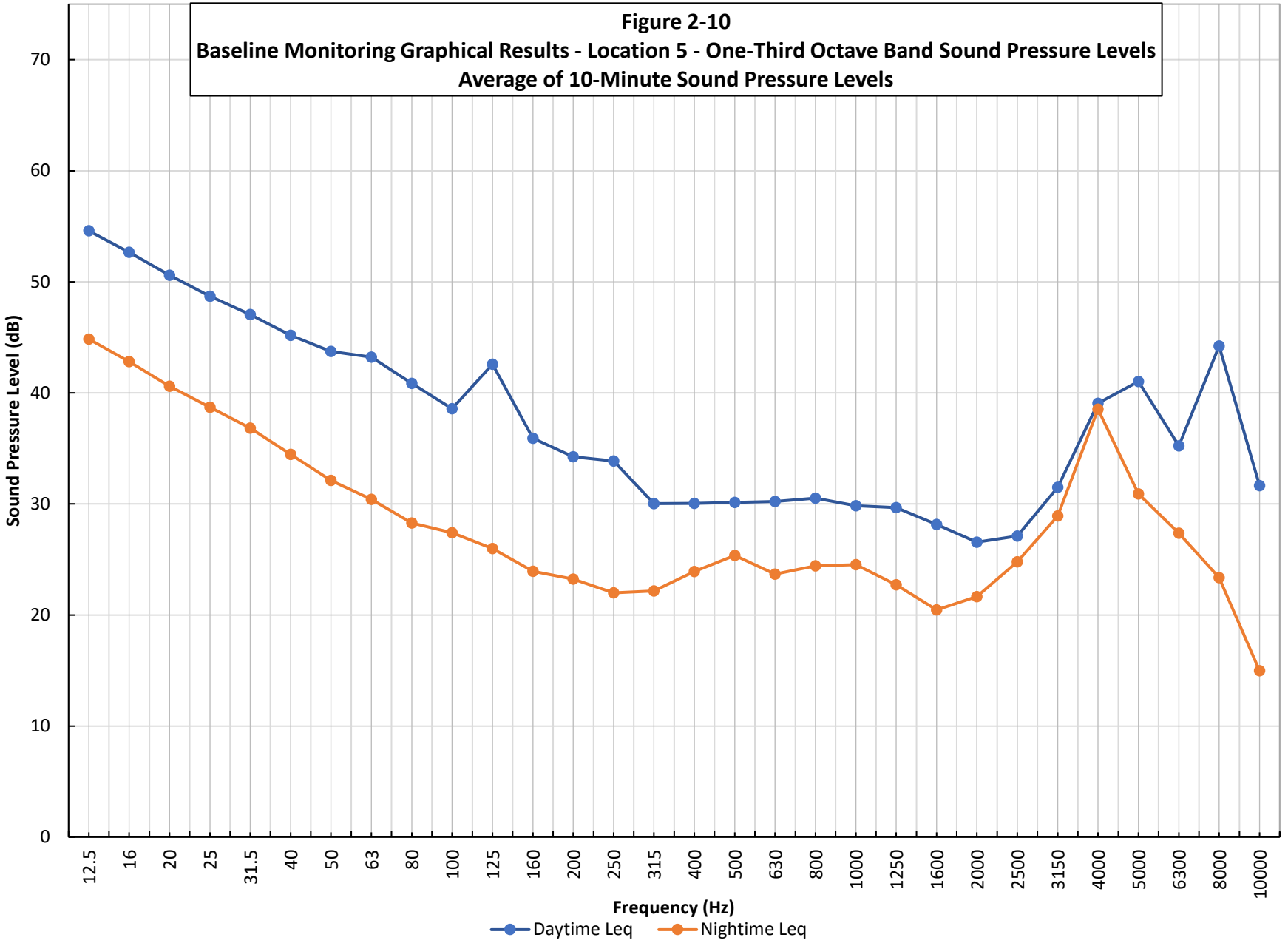


Figure 2-9
Baseline Monitoring Graphical Results - Location 5
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
80
70
60
50
40
30
20
10
0
35
30
25
20
15
10
5
0
-5
9/16 0:00
9/16 12:00
9/17 0:00
9/17 12:00
9/18 0:00
9/18 12:00
9/19 0:00
9/19 12:00
9/20 0:00
9/20 12:00
9/21 0:00
9/21 12:00
9/22 0:00
9/22 12:00
9/23 0:00
9/23 12:00
9/24 0:00
9/24 12:00
9/25 0:00
Start Time [September 16-24, 2020]
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance

Figure 2-10
Baseline Monitoring Graphical Results - Location 5 - One-Third Octave Band Sound Pressure Levels
Average of 10-Minute Sound Pressure Levels



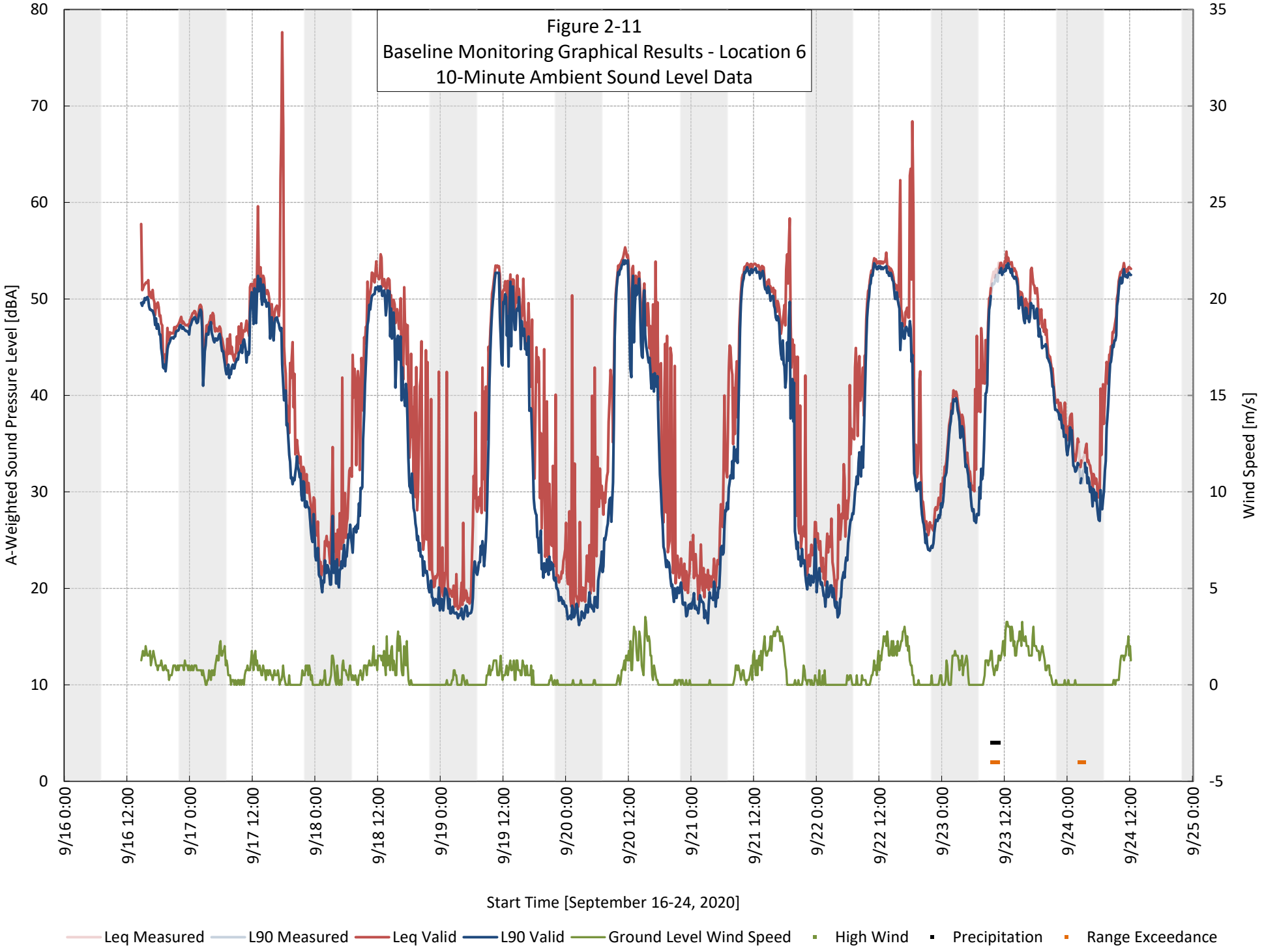
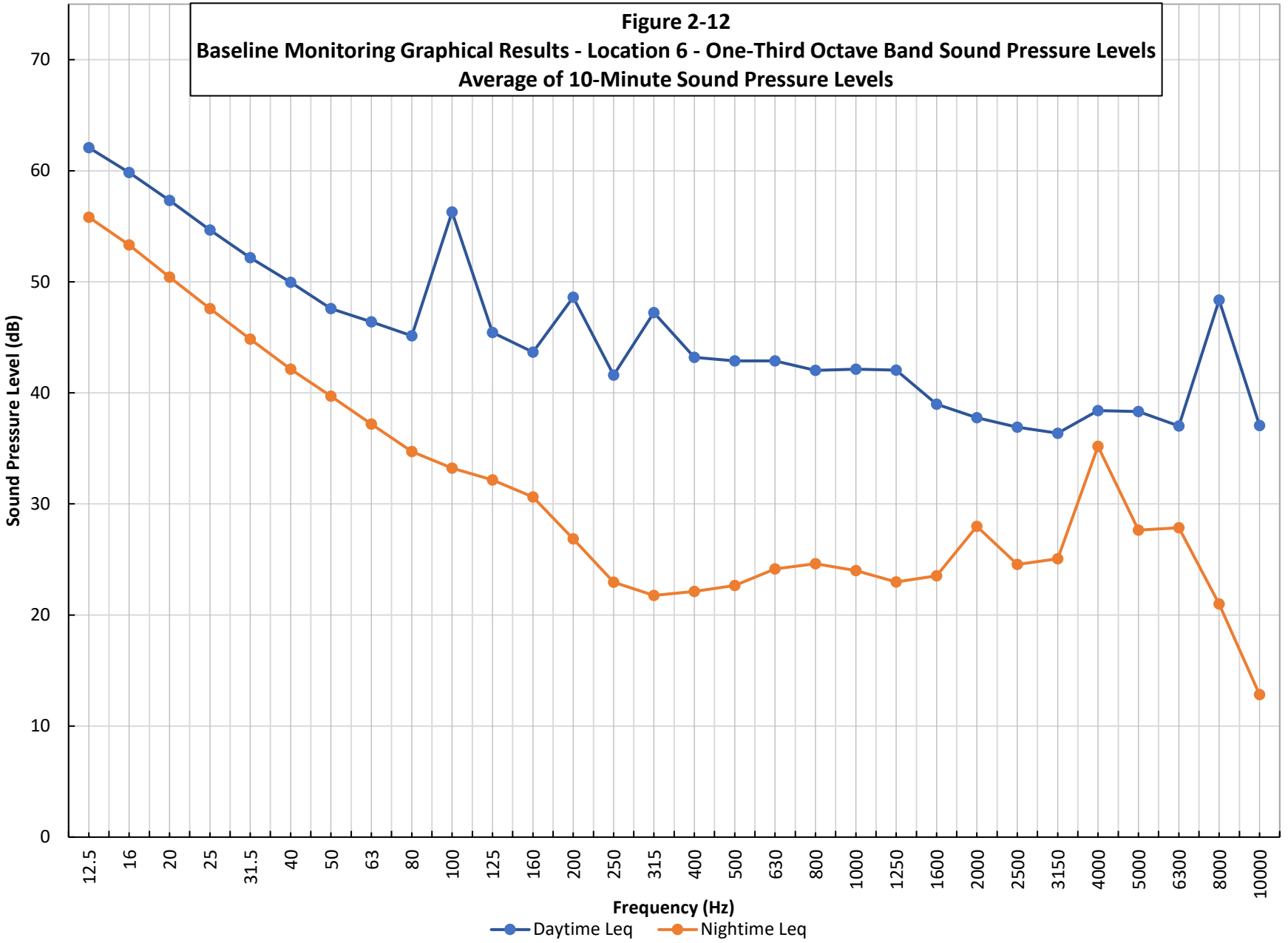


Figure 2-11
Baseline Monitoring Graphical Results - Location 6
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
80
70
60
50
40
30
20
10
0
35
30
25
20
15
10
5
0
-5
9/16 0:00
9/16 12:00
9/17 0:00
9/17 12:00
9/18 0:00
9/18 12:00
9/19 0:00
9/19 12:00
9/20 0:00
9/20 12:00
9/21 0:00
9/21 12:00
9/22 0:00
9/22 12:00
9/23 0:00
9/23 12:00
9/24 0:00
9/24 12:00
9/25 0:00
Start Time [September 16-24, 2020]
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance

Figure 2-12
Baseline Monitoring Graphical Results - Location 6 - One-Third Octave Band Sound Pressure Levels
Average of 10-Minute Sound Pressure Levels



3.0 SOUND LEVEL MONITORING SUMMARY

A baseline monitoring program was performed for the proposed Riverside Solar Project to characterize the existing sound level environment in the Project area. The measured sound levels are summarized below as tabular data by location. Respective ANS-weighted broadband sound levels calculated for the summary period of interest are provided along with the "as-measured" broadband levels within each table. Only valid[7] 10-minute measurement periods are included in the summary tables.

3.1 Existing Ambient – L90

Measured ambient L_{90} sound levels are shown below in Table 3-1. Values are separated by daytime and nighttime periods as well as for the entire program combined. These values represent the L_{90} of the measured L_{90} values.

Table 3-1 Existing Ambient L_{90} (dBA) Sound Pressure Level Summary

Location	Overall (dBA)		Daytime (dBA)		Nighttime (dBA)	
	Measured	ANS	Measured	ANS	Measured	ANS
Location 1	40	26	43	31	36	20
Location 2	41	33	48	43	33	22
Location 3	35	26	41	30	29	22
Location 4	32	24	38	29	26	18
Location 5	36	21	43	26	28	16
Location 6	34	20	42	25	26	14

3.2 Existing Ambient - Leq

Measured average ambient L_{eq} levels are presented in Table 3-2. Values are separated by daytime and nighttime periods as well as for the entire program combined.

Table 3-2 Existing Ambient L_{eq} (dBA) Sound Pressure Level Summary

Location	Overall (dBA)		Daytime (dBA)		Nighttime (dBA)	
	Measured	ANS	Measured	ANS	Measured	ANS
Location 1	45	39	47	42	40	29
Location 2	63	62	66	65	55	52
Location 3	41	36	44	38	34	30
Location 4	41	36	43	38	34	30
Location 5	42	32	45	34	33	26
Location 6	43	33	46	36	30	21

[7] Refer to Chapter 2 for details concerning valid periods.

Appendix A

Windscreen Insertion Loss

Experimental study to determine wind-induced noise and windscreen attenuation effects on microphone response for environmental wind turbine and other applications

George F. Hessler[a)], David M. Hessler[b)], Peter Brandstätt[c)] and Karlheinz Bay[d)]

(Received: 23 February 2008; Revised: 30 May 2008; Accepted: 31 May 2008)

Despite the use of windscreens, the measurement of ambient sound levels or noise emissions in quiet environments can be adversely affected by wind blowing over the microphone. This is especially true when environmental impact assessments are being carried out for proposed wind turbine power projects - where the objective is to determine the level of background masking noise available as a function of wind speed, since any potential noise impact from the project will only occur under moderately windy conditions. Under calm conditions the project will produce no noise at all. A number of windscreen products are commercially available for short and long-term sound level monitoring in adverse weather conditions. Generally, these windscreens vary by physical size and the method of preventing water from reaching the microphone. High frequency attenuation effects are usually available from the product suppliers but, in general, low frequency turbulence effects are not available. Consequently, a controlled laboratory test program was carried out in a state-of-the-art wind tunnel at the Fraunhofer Institut für Bauphysik in Stuttgart, Germany to quantify the level of low frequency interference (down to 6.3 Hz) associated with a number of different foam windscreens and an aerodynamic microphone nose cone. A total of nine configurations were tested with "quiet" airflow only, artificial noise only and noise plus airflow to evaluate both low frequency wind induced noise and high frequency attenuation effects. The test program demonstrated that the largest size foam-based windscreens provided the most protection from flow induced noise due to wind. Flow induced noise by air flow alone was estimated from the study results and compared to community noise measurements at a typical wind turbine site. It was determined that flow induced wind noise does not have a significant or detrimental effect on the measurement of A-weighted sound levels under wind conditions of concern as long as the suggested measurement techniques described herein are followed.

Primary subject classification: 71.1.1; Secondary subject classification: 21.6

1 INTRODUCTION

It is a challenge to measure ambient or background levels in quiet, rural environments. Such areas are usually devoid of any major noise sources, such as highways, industrial facilities or airports. Except for occasional, usually man-made, noise events the sound level in rural environments is normally dominated by the rustling of tree leaves or branches in the wind or by the high frequency sounds of insects during the warmer months of the year. For wind turbine power project assessments, ambient sound levels when the wind is blowing in the 3 to 10 m/s range (measured at 10 m above the surface) is very relevant because that is when typical wind turbines first begin to generate significant noise. At higher wind speeds turbine sound levels remain largely constant while the background sound continues to increase. Consequently, background sound

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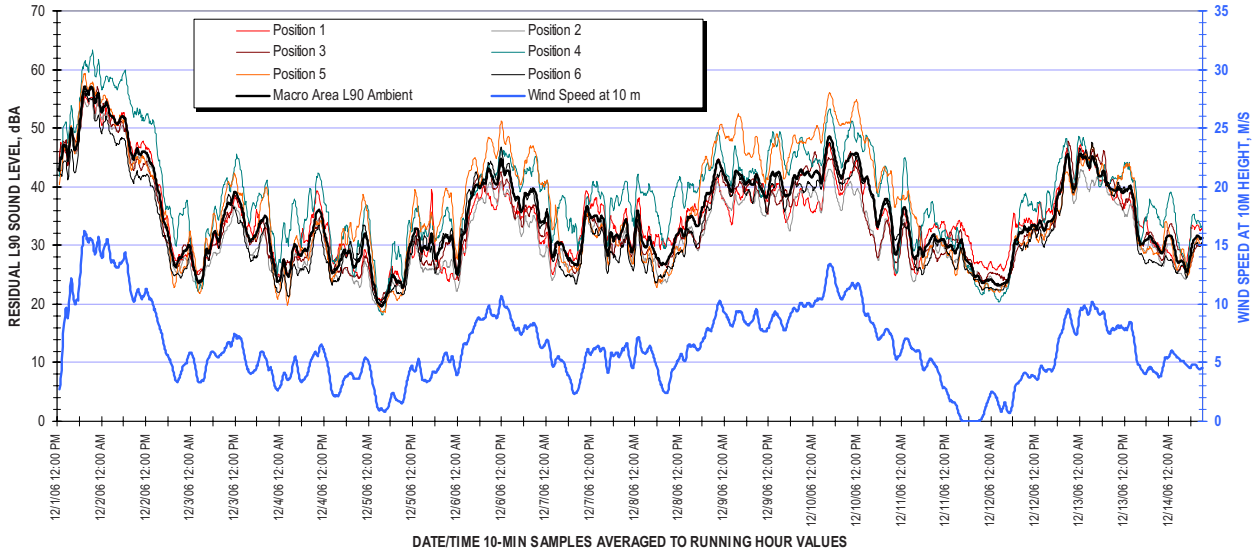


Fig. 1—Measured residual LA90 ambient sound levels at six widely spaced locations in a quiet rural area compared to wind speed over a 13 day period.

levels that occur during moderate winds are of the most interest. Reference 1 offers techniques for measuring wind turbine sources using a ground plane microphone setup to eliminate wind induced noise, but background baseline measurements are made above grade with wind.

In general, experience with (insect-free) wintertime surveys at rural sites indicates that there is normally an

Fig. 2—Photographs of nine microphone test configurations.

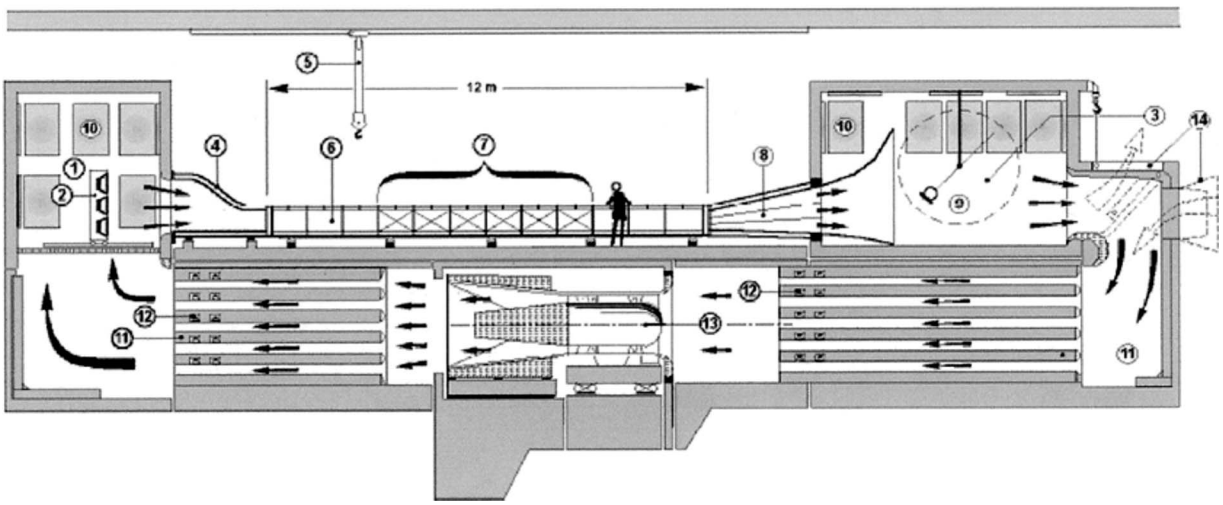


Fig. 3—Cross sectional elevation view of silencer test facility.

excellent correlation between wind speeds and the ambient residual (L90) sound levels as shown on Fig. 1. Of course, such a high degree of correlation could result if the microphone response was dominated by wind-induced turbulence effects around the microphone as opposed to the true ambient sound level signal. Hence, the purpose of this study is to quantitatively address this uncertainty and determine, for a number of common windscreens types, if/when any substantial contamination occurs over a range of wind speeds.

Nine microphone configurations, as illustrated in Fig. 2, were tested under controlled conditions in a wind tunnel duct using quiet airflow only, artificial noise only (at three volumes) and airflow plus artificial noise. Ninety degree incidence is used to duplicate ambient sound measurement survey techniques, but the nose cone (B&K model UA 0386) was aimed into the flow stream. Windscreens for tests 3, 4, 8 and 9 are products available for long-term outdoor monitoring. The foam ball ACO Pacific models (tests 8 and 9) are specifically treated to shed rain water while the other foam balls are not intended for outdoor rain exposure. Measurements were carried out at duct velocities of 2.5, 5, 10, 20 and 30 m/s (8, 16, 33, 66 and 98 ft/s, or 6, 11, 22, 45 and 67 mph). The test results are also useful for determining flow turbulence effects when measuring industrial noise sources in the presence of airflow, as well as for outdoor environmental measurements.

The test program was carried out at the Fraunhofer Institute of Building Physics located in Stuttgart, Germany at their aero-acoustic wind tunnel illustrated on Fig. 3. Note the large silencers on the inlet and exhaust path of the airflow fan and the structural isolation of the test duct. The airflow delivered to the duct test section is essentially free of fan noise or is "quiet" air. The airflow in the duct cross section has an even distribution without swirl or turbulences as it is supplied through a stilling chamber and an air inlet profile. The duct cross section of 1 m by 0.5 m was held constant over the complete length for all measurements. In this way re-generated noise was kept at a minimum. Measurements were made with a Norsonic 840 Analyzer, Norsonic Model 1201 preamp and 1/2 inch (13 mm) diameter Model 1225 microphone.

2 LOW FREQUENCY TURBULENCE EFFECTS - FLOW MEASUREMENTS

The raw measured data for all configurations at the five airflow speeds are plotted on Fig. 4. It is certainly not news, but the data clearly demonstrate that even the most modest foam windscreen should always be used when outdoors, since it dramatically improves the low and mid frequency microphone response. Because the extreme low frequencies are significantly affected by flow induced noise even at fairly low wind speeds, these plots also show that whenever low level very low frequency or C-weighted sound levels must be measured outdoors such measurements should only be carried out under completely calm conditions.

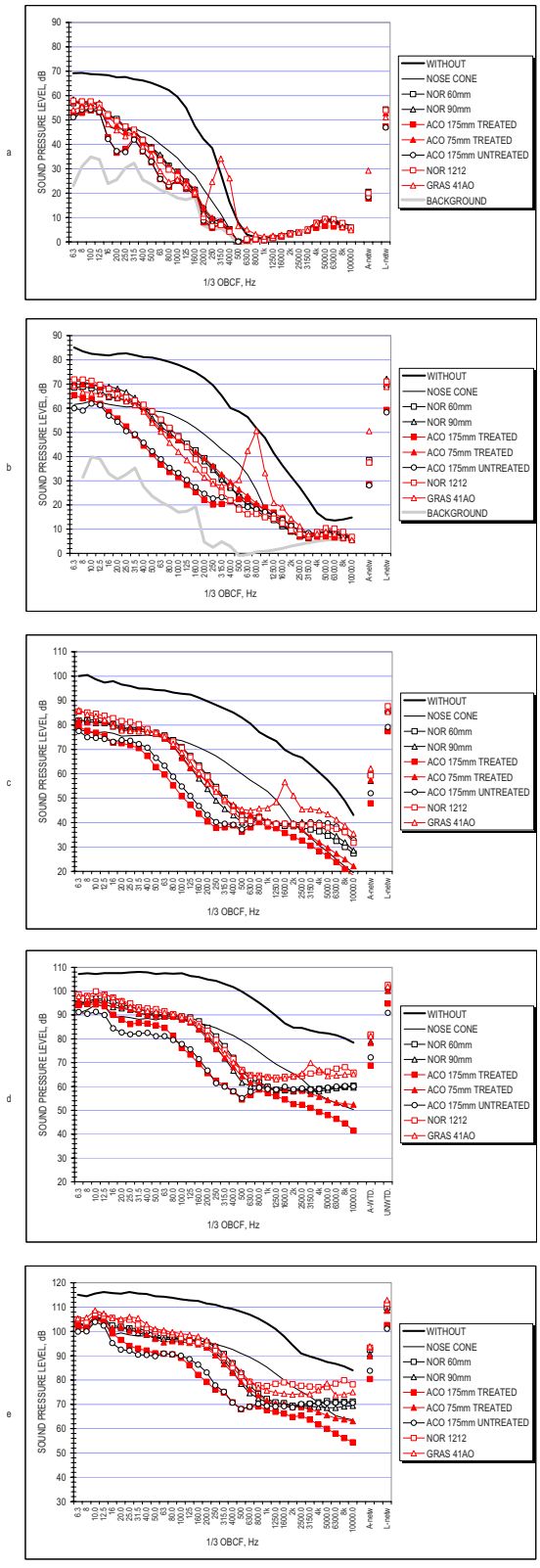


Fig. 4—Measured microphone response at five velocities (2.5, 5. 10, 20 and 30 m/s*, graph a through e).*

The second trend immediately noticeable is that the two larger (175 mm diameter) windscreens are significantly better at reducing flow induced noise at low and

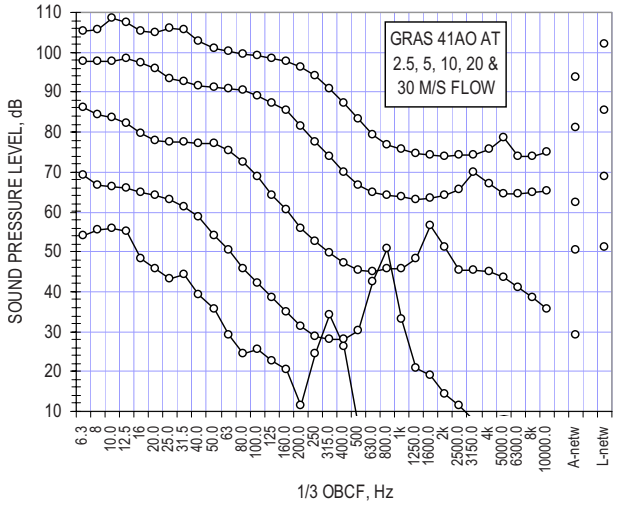


Fig. 5—Graph showing flow generated tonal noise associated with the gap between foam and wire.

mid frequencies. Flow-induced noise levels are on the order of 10 dB lower for this type of windscreen than they are for all others. Prior studies have shown this relationship and an excellent analytical study and summary of microphone response to turbulence is presented by van den Berg in Ref. 2. This testing quantifies the improvement and low frequency performance for readily available current wind protection products.

All of the plots, but particularly the lower wind speed cases, show a tonal aberration for the GRAS model 41AO windscreen. A frequency shift with wind velocity can clearly be seen in Fig. 5, which shows only the results for this model windscreen at all five wind speeds. This behavior was initially attributed to vortex shedding from the bird spike wires (each 1.5 mm in diameter) where the frequency may be calculated by the well known equation:

$$f = Sv/d \qquad (1)$$

where,
S=the Strouhal number of 0.2
v=velocity, m/s
d=diameter, m

This calculation indicated that the 315, 630, 1250, 2500 and 5000 Hz 1/3 octave bands would be excited by vortex shedding, but the actual measurements showed that the affected bands were 315, 800, 1600, 3150 and 5000 Hz. Further diagnostic testing demonstrated that the peaks are caused by the gap between the

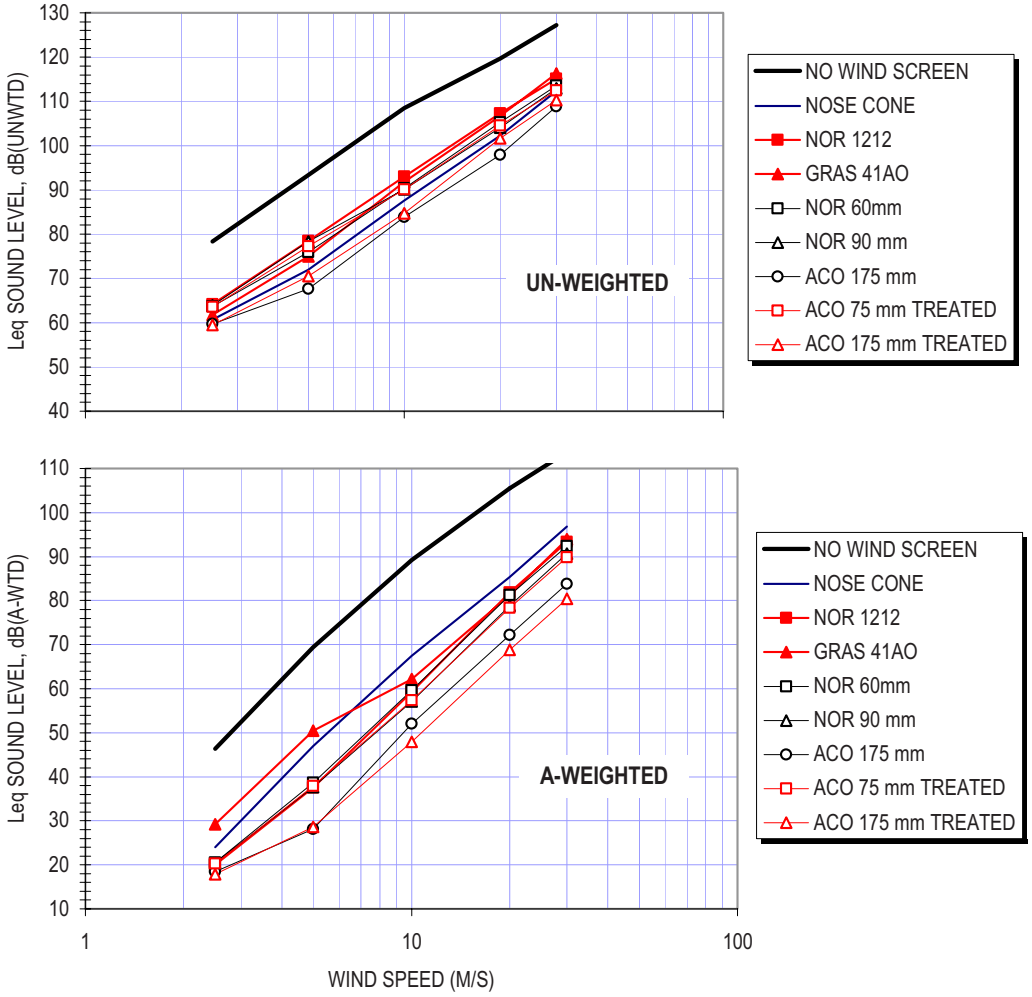


Fig. 6—Plot of overall flow noise response for windscreen models. Upper: Un-weighted level, Lower: A-weighted level.

wire bird spike base and the top of the windscreen. Apparently small mini-jets are created by this gap and it was found that this noise could be reduced by a closer fit between the foam screen and the wire. The gap should be eliminated when employing this model for monitoring.

Figure 6 plots the overall measured values of flow-generated noise as a function of air flow velocity. When plotted on a logarithmic scale, the data show a linear increase with velocity for all models. The overall, un-weighted sound level slope is a v^5 relationship, or approximately a 15 dB increase for each doubling of velocity, whereas the A-weighted results are a v^6 relationship, or approximately 18 dBA increase per doubling. Table 1 tabulates the overall measured values at each velocity for each model windscreen. These data can be used to derive a logarithmic expression for the self-generated noise level as a function of wind speed for any of the tested windscreens. For example, data for the treated ACO 175 mm windscreen leads to the following approximate equation for estimating the A-weighted flow induced noise level for the wind speed at the microphone location. Wind speed at 10 m elevation is the standardized elevation for rating wind turbines as given in Ref. 1 but this equation applies at the microphone location.

$$L_{fin} = 27.4 \ln(v) - 10.7, \text{ dBA} \qquad (2)$$

where,

L_{fin}=the A-weighted flow-induced-noise level due only to wind

v=the wind speed at the microphone, m/s

Table 1—Measured overall levels for microphone response with and without windscreens at five velocity settings. Lowest response results are for the 175 mm *size windscreens.*

		FLOW SPEED M/S (MPH)				
A-WTD		2.5	5	10	20	30
T1	NO WIND SCREEN	46	69	89	106	114
T2	NOSE CONE	24	47	68	85	97
T3	NOR 1212	20	38	59	82	93
T4	GRAS 41AO	29	51	62	81	94
T5	NOR 60 mm	21	39	60	81	92
T6	NOR 90 mm	20	38	57	79	91
T7	ACO 175 mm	18	28	52	72	84
T8	ACO 75 mm TREATED	20	38	57	78	90
T9	ACO 175 mm TREATED	18	29	48	69	80
UNWTD		FLOW SPEED M/S (MPH)				
		2.5	5	10	20	30
T1	NO WIND SCREEN	78	93	109	120	127
T2	NOSE CONE	61	72	88	102	112
T3	NOR 1212	64	79	93	107	115
T4	GRAS 41AO	62	75	92	107	116
T5	NOR 60 mm	64	76	90	105	114
T6	NOR 90 mm	64	78	90	104	113
T7	ACO 175 mm	60	68	84	98	109
T8	ACO 75 mm TREATED	64	77	90	105	113
T9	ACO 175 mm TREATED	60	71	85	102	110

3 ATTENUATION EFFECTS – ARTIFICIAL NOISE MEASUREMENTS

The measured sound levels in the duct at three volumes of artificial loud speaker noise (without any airflow) are plotted in Fig. 7. The fairly significant response variances at frequencies below 50 Hz are attributable to longitudinal in-duct resonances. Variable levels of external low frequency background noise outside the test duct at the facility may have also contributed to the scatter and loudspeaker output is poor at frequencies below 20 Hz. An improved signal to background noise ratio is suspected as the reason for better data grouping at the highest volume. There is no reason to believe that windscreens have any attenuation or amplification effects at these low frequencies. To verify this, testing was repeated in the facilities anechoic free-field environment. Figure 8 plots the raw data for this test and it is readily apparent that the low frequency variations are absent for a free progressive wave in an anechoic room as opposed to the wave front in a duct containing lateral reflections.

At the high end of the frequency spectrum the plots consistently show the same, model-dependent trends such as the significant attenuation of the ACO 175 mm treated windscreen at all frequencies above about 1250 Hz. Figure 9 shows the averaged attenuation for the three volumes in 1/3 octave bands for all windscreen models tested. Negative attenuation, or amplification of the signal, is significant for the nose cone and Nor 1212 outdoor windscreen. Table 2 tabulates the measured attenuations.

In general, the relatively large high frequency attenuation associated with the ACO 175 mm treated windscreen means that any un-corrected measurements made with it would be somewhat lower on an overall A-weighted basis than the actual value and therefore conservative in background survey applications. The overall noise reduction of this windscreen would depend on the frequency spectrum shape of the sound being measured but appears to be in 2 to 5 dBA range (neglecting any possible counteracting increases due to wind-induced effects). This low-pass filter quality could actually be beneficial in cases where unwanted summertime insect noise (generally above 2 kHz) is present. This contamination would be automatically

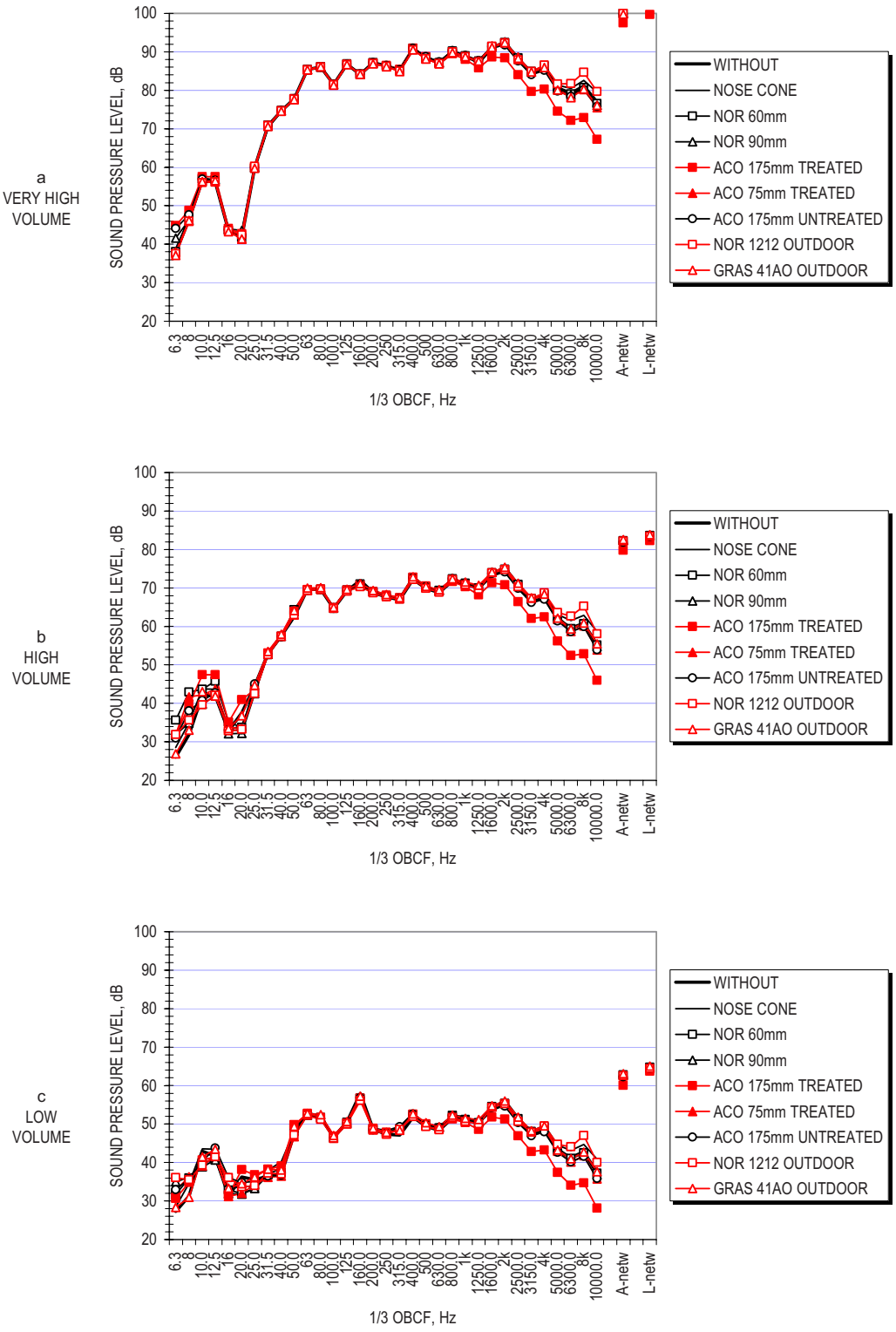


Fig. 7—Measured response with three volumes of artificial noise in the duct.

minimized, though not necessarily eliminated, through the use of this windscreen

4 FLOW AND NOISE MEASUREMENTS

The combined flow and noise measurements serve to illustrate the accuracy of the measurements and the benefits of using windscreens. Figure 10 plots the flow only, noise only and the combined flow and noise measurements for three cases: no windscreen, minimum diameter and maximum diameter foam windscreens. The point where the flow only and noise only traces cross essentially defines the minimum

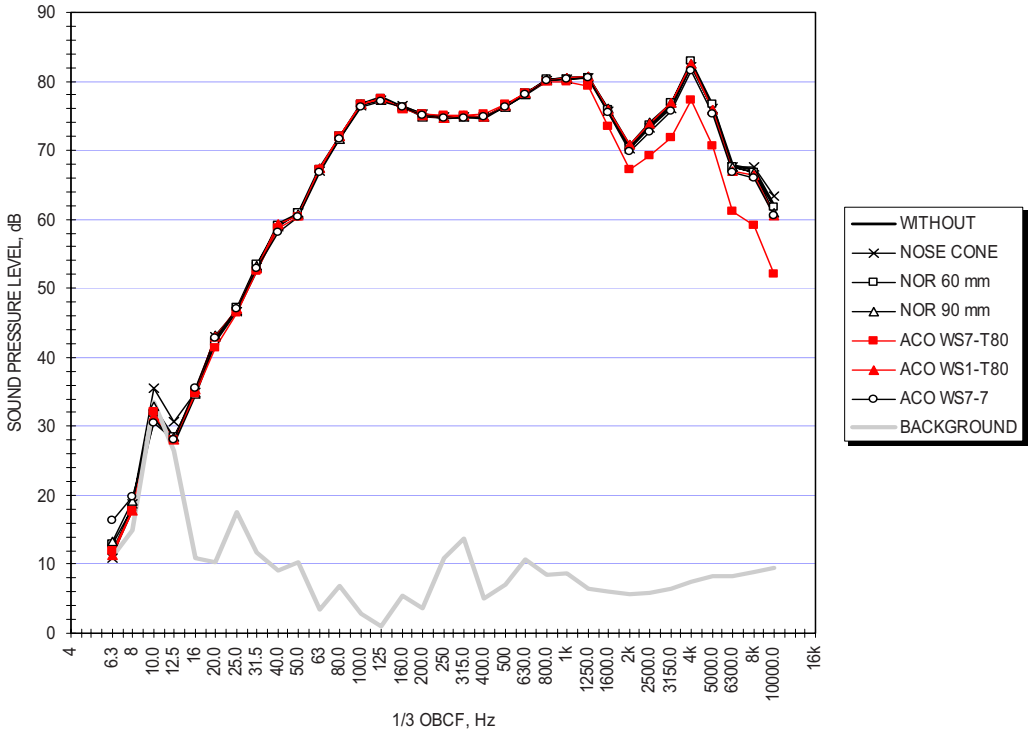


Fig. 8—Measured sound pressure spectra for five windscreen models in an anechoic chamber.

frequency at which valid data can be measured during, in this case, a 10 m/s wind. Without a windscreen, almost the entire spectrum (0 to 6300 Hz) is dominated by the 10 m/s flow noise. At the same 10 m/s flow speed; however, accurate measurements can be made in all bands above 125 Hz using only a 60 mm windscreen. The frequency response is improved to above 50 Hz using the largest (175 mm) windscreen.

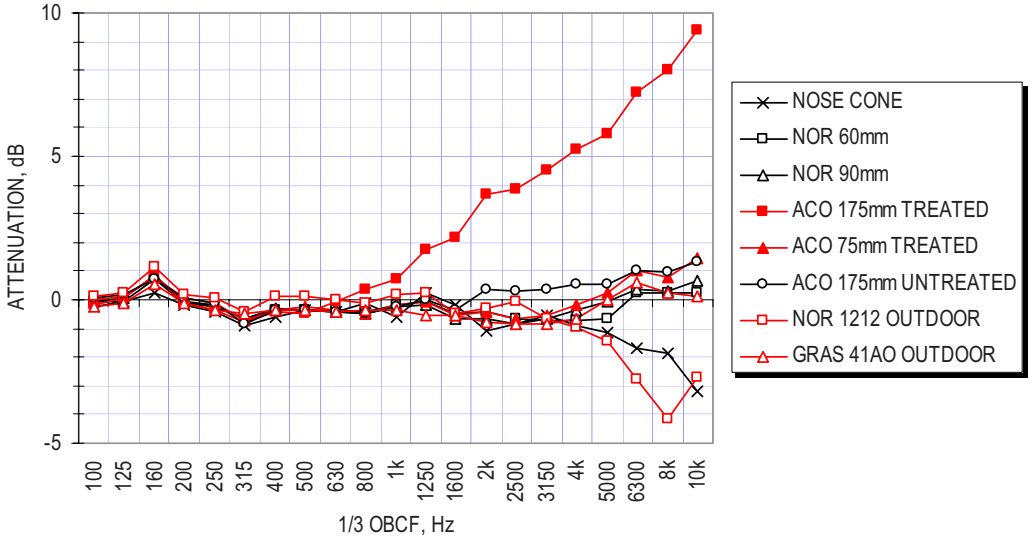


Fig. 9—Measured microphone response attenuation for windscreen models for 90 degree sound incidence.

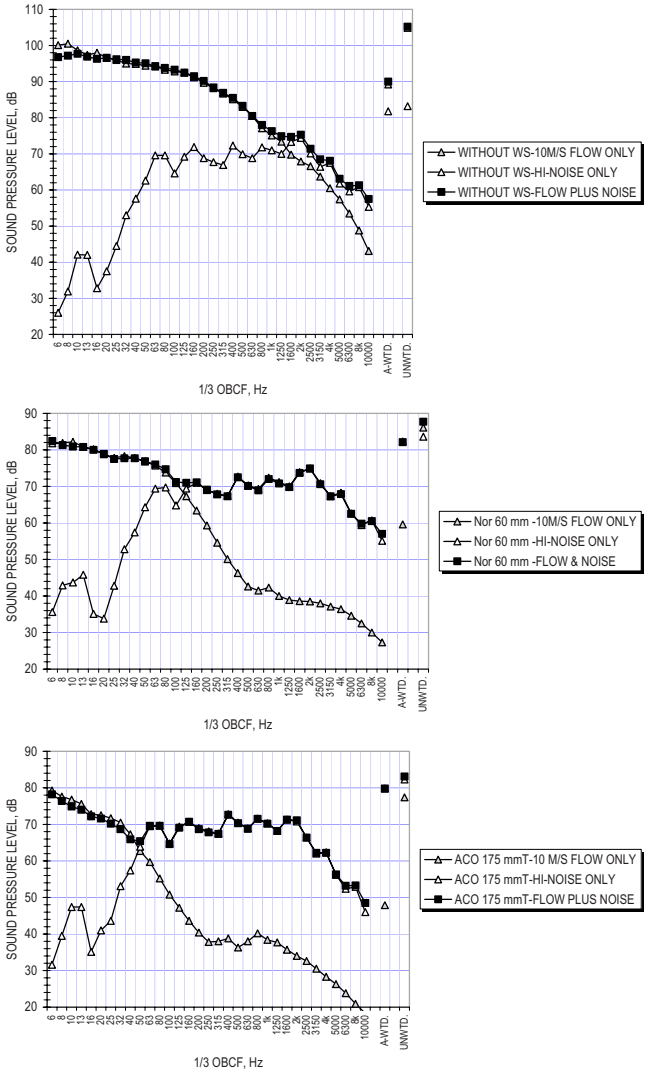


Fig. 10—Flow only, noise only and flow and noise measurements.

5 CONCLUSIONS AND RECOMMENDATIONS

The data show that reasonably good results when measuring in low to moderate wind conditions are possible even with conventional 60 mm windscreens, but that a larger (175 mm) diameter windscreen offers significantly better performance in the lower frequencies.

In the special case of background sound level surveys for wind turbine projects, where the objective is to determine the environmental sound level/masking level as a function of wind speed, the suggested practice based on this lab study is to use a large 175 mm windscreen and mount the microphone at a maximum elevation of about 1 m above grade. This latter step helps ensure that the microphone is exposed to relatively low wind speeds, since the nominal wind velocity profile, Eqn. (7) in Ref. 1 has a parabolic shape where the velocity decreases rapidly near the ground – theoretically going to zero at the surface. For example, a wind speed of 10 m/s (22.4 mph) measured at a standardized elevation of 10 m would translate to a nominal speed of 5.6 m/s (12.5 mph) at only 1 m above the surface. The wind speed range of most relevance to wind turbine analyses is usually in the 5 to 8 m/s range as measured at 10 m; consequently, a microphone at 1 m would be exposed to nominal flow velocities of 2.8 m/s (6.3 mph) to 4.5 m/s (10.1 mph) where the A-weighted flow induced noise levels would

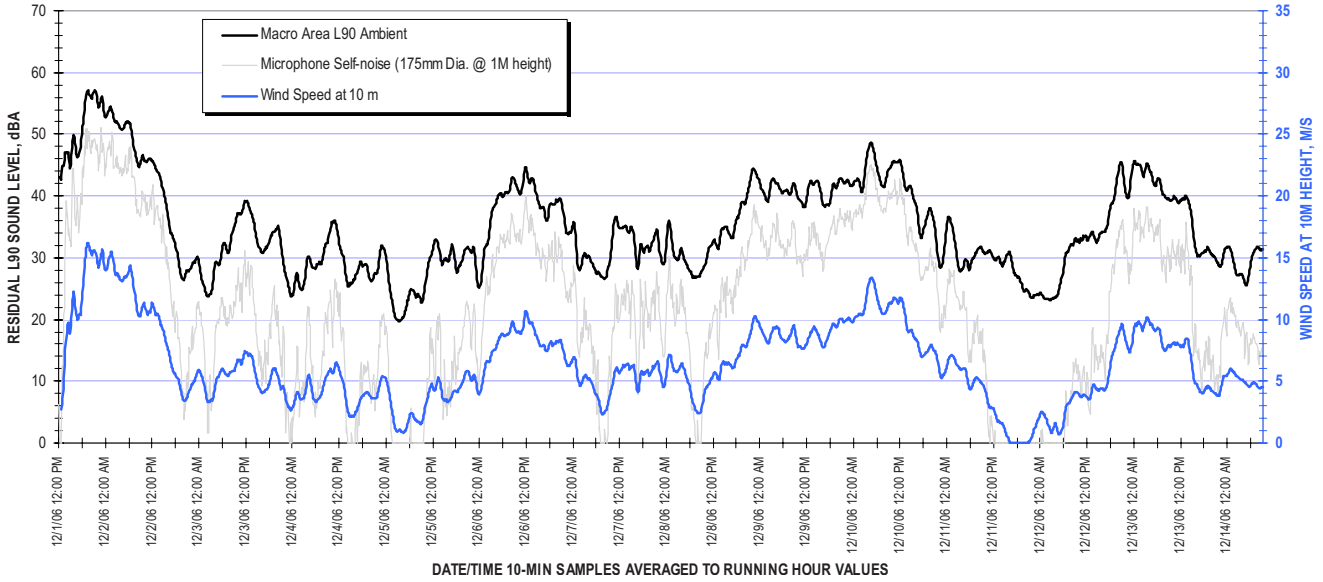


Fig. 11—Measured community ambient level compared to estimated microphone response to wind.

Table 2—Measured attenuation for windscreen models, 90 degree sound incidence.

1/3 OBCF, Hz	NOR 60 mm	NOR 90 mm	ACO 175 mm TREATED	ACO 75 mm TREATED	ACO 175 mm UNTREATED	NOR1212 OUTDOOR	GRAS41AO OUTDOOR	NOSE CONE
100	0.0	−0.1	−0.2	0.0	0.1	0.1	−0.2	−0.2
125	−0.1	0.1	0.1	0.1	0.2	0.3	−0.1	−0.1
160	0.7	0.9	0.8	0.8	0.7	1.2	0.5	0.2
200	−0.1	0.0	−0.1	0.0	0.1	0.2	−0.1	−0.2
250	−0.2	−0.2	−0.4	−0.1	−0.1	0.0	−0.3	−0.4
315	−0.7	−0.6	−0.8	−0.7	−0.8	−0.4	−0.5	−0.9
400	−0.4	−0.3	−0.4	−0.3	−0.4	0.1	−0.4	−0.6
500	−0.3	−0.3	−0.5	−0.2	−0.3	0.1	−0.3	−0.3
630	−0.4	−0.4	0.0	−0.4	−0.4	0.0	−0.4	−0.4
800	−0.4	−0.5	0.4	−0.5	−0.5	−0.1	−0.3	−0.1
1K	−0.2	−0.2	0.7	−0.2	−0.2	0.2	−0.3	−0.6
1250	0.0	−0.2	1.8	−0.1	0.0	0.3	−0.5	0.3
1600	−0.5	−0.6	2.2	−0.6	−0.3	−0.5	−0.6	−0.2
2K	−0.4	−0.7	3.7	−0.4	0.3	−0.3	−0.8	−1.1
2500	−0.6	−0.8	3.8	−0.7	0.3	0.0	−0.8	−0.8
3150	−0.7	−0.6	4.5	−0.5	0.3	−0.7	−0.8	−0.6
4K	−0.7	−0.3	5.3	−0.2	0.5	−1.0	−0.7	−0.9
5K	−0.6	−0.1	5.8	0.2	0.6	−1.5	0.0	−1.1
6300	0.2	0.3	7.2	1.0	1.0	−2.8	0.6	−1.7
8K	0.2	0.3	8.0	0.8	1.0	−4.1	0.2	−1.9
10K	0.3	0.7	9.4	1.5	1.3	−2.7	0.1	−3.2

range from 18 to 31 dBA. Such levels are low to insignificant even compared to the quiet environmental sound levels that commonly exist in rural areas.

As an example, the self-noise sound levels associated with the field data illustrated in Figure 1 have been calculated from Eqn. (2) above (based on the 10 m wind data converted to 1 m) and used to correct the sound levels actually measured. The measured and corrected sound levels are plotted in Fig. 11. Since the microphone flow induced noise response alone is frequently 8 to 10 dBA below the measured levels, the adjustment is minimal in most instances (=< 0.5 dBA) and therefore considered insignificant.

6 ACKNOWLEDGEMENTS

The author wishes to acknowledge both the technical and financial assistance provided by the Norsonic in Germany, Scantek, Inc., GRAS and ACO Pacific in the U.S.

7 REFERENCES

1. International Standard IEC 61400-11, *Wind turbine generator systems – Part 11: "Acoustic noise measurement techniques"*, 2nd edition 2002–12, (2002).
2. G. P. van den Berg, "The sound of high winds: the effect of atmospheric stability on wind turbine sound and microphone noise." Ph.D. Thesis, National University of Groningen, The Netherlands, (2006).

Appendix B

Certificates of Sound Level Instrument Calibration

Scantek, Inc.
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.44210

Instrument:	**Acoustical Calibrator**
Model:	**CAL200**
Manufacturer:	**Larson Davis**
Serial number:	**13676**
Class (IEC 60942):	**1**
Barometer type:	
Barometer s/n:	
Customer:	**Epsilon Associates, Inc.**
Tel/Fax:	**978-461-6235 / choyt@epsilonassociates.com**

Date Calibrated: **1/15/2020** *Cal Due:* **1/15/2021**

Status:	**Received**	**Sent**
In tolerance:	X	X
Out of tolerance:		
See comments:		

Contains non-accredited tests: __Yes _X_ No

Address: **3 Mill & Main Place, Suite 250, Maynard, MA 01754**

Tested in accordance with the following procedures and standards:
Calibration of Acoustical Calibrators, Scantek Inc., Rev. 10/1/2010

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Oct 31, 2019	Scantek, Inc./ NVLAP	Oct 31, 2020
DS-360-SRS	Function Generator	33584	Oct 23, 2019	ACR Env./ A2LA	Oct 23, 2021
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Oct 22, 2019	ACR Env. / A2LA	Oct 22, 2020
HM30-Thommen	Meteo Station	1040170/39633	Oct 24, 2019	ACR Env./ A2LA	Oct 24, 2020
140-Norsonic	Real Time Analyzer	1406423	Oct 31, 2019	Scantek / NVLAP	Oct 31, 2020
PC Program 1018 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
4134-Brüel&Kjær	Microphone	173368	Oct 23, 2019	Scantek, Inc. / NVLAP	Oct 23, 2020
1203-Norsonic	Preamplifier	14059	Feb 28, 2019	Scantek, Inc./ NVLAP	Feb 28, 2020

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK)

Calibrated by:	Lydon Dawkins	**Authorized signatory:**	William D. Gallagher
Signature	Lydon Dawkins	Signature	William D. Gallagher
Date	1/15/2020	Date	1/14/2020

Results summary: Device was tested and complies with following clauses of mentioned specifications:

CLAUSES[1] FROM STANDARDS REFERENCED IN PROCEDURES:	MET[2]	NOT MET	COMMENTS
Manufacturer specifications			
Manufacturer specifications: Sound pressure level	X		
Manufacturer specifications: Frequency	X		
Manufacturer specifications: Total harmonic distortion	X		
Current standards			
ANSI S1.40:2006 B.3 / IEC 60942: 2003 B.2 - Preliminary inspection	X		
ANSI S1.40:2006 B.4.4 / IEC 60942: 2003 B.3.4 - Sound pressure level	X		
ANSI S1.40:2006 A.5.4 / IEC 60942: 2003 A.4.4 - Sound pressure level stability	-	-	
ANSI S1.40:2006 B.4.5 / IEC 60942: 2003 B.3.5 - Frequency	X		
ANSI S1.40:2006 B.4.6 / IEC 60942: 2003 B.3.6 - Total harmonic distortion	X		

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 The tests marked with (*) are not covered by the current NVLAP accreditation.

Main measured parameters [3]:

Measured[4]/Acceptable[5] Tone frequency (Hz):	Measured[4]/Acceptable[5] Total Harmonic Distortion (%):	Measured [4]/Acceptable Level[5] (dB):
1000.25 ± 1.0/1000.0 ± 10.0	0.34 ± 0.10/ < 3	93.94 ± 0.12/94.0 ± 0.4
1000.27 ± 1.0/1000.0 ± 10.0	0.38 ± 0.10/ < 3	113.94 ± 0.12/114.0 ± 0.4

3 The stated level is valid at measurement conditions.

4 The above expanded uncertainties for frequency and distortion are calculated with a coverage factor k=2; for level k=2.00

5 Acceptable parameters values are from the current standards

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
24.9 ± 1.0	100.52 ± 0.000	39.0 ± 2.0

Tests made with following attachments to instrument:

Calibrator ½" Adaptor Type:
Other:

Adjustments: Unit was not adjusted.
Comments: The instrument was tested and met all specifications found in the referenced procedures.

Note: The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

Measured Data: in Acoustical Calibrator Test Report # 44210 of two pages.

Place of Calibration: Scantek, Inc.
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

Scantek, Inc.
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.44209

Instrument:	**Acoustical Calibrator**	*Date Calibrated:* **1/15/2020**	*Cal Due:* **1/15/2021**
Model:	**1251**	*Status:*	**Received** / **Sent**
Manufacturer:	**Norsonic**	*In tolerance:*	**X** / **X**
Serial number:	**34880**	*Out of tolerance:*	
Class (IEC 60942):	**1**	*See comments:*	
Barometer type:		*Contains non-accredited tests:*	**__Yes _X_ No**
Barometer s/n:			
Customer:	**Epsilon Associates, Inc.**	*Address:*	**3 Mill & Main Place, Suite 250, Maynard, MA 01754**
Tel/Fax:	**978-461-6235 / choyt@epsilonassociates.com**		

Tested in accordance with the following procedures and standards:
Calibration of Acoustical Calibrators, Scantek Inc., Rev. 10/1/2010

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Oct 31, 2019	Scantek, Inc./ NVLAP	Oct 31, 2020
DS-360-SRS	Function Generator	33584	Oct 23, 2019	ACR Env./ A2LA	Oct 23, 2021
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Oct 22, 2019	ACR Env. / A2LA	Oct 22, 2020
HM30-Thommen	Meteo Station	1040170/39633	Oct 24, 2019	ACR Env./ A2LA	Oct 24, 2020
140-Norsonic	Real Time Analyzer	1406423	Oct 31, 2019	Scantek / NVLAP	Oct 31, 2020
PC Program 1018 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
4134-Brüel&Kjær	Microphone	173368	Oct 23, 2019	Scantek, Inc. / NVLAP	Oct 23, 2020
1203-Norsonic	Preamplifier	14059	Feb 28, 2019	Scantek, Inc./ NVLAP	Feb 28, 2020

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK)

Calibrated by:	Lydon Dawkins	**Authorized signatory:**	William D. Gallagher
Signature	Lydon Dawkins	Signature	William D Gallagher
Date	1/15/2020	Date	1/16/2020

Results summary: Device was tested and complies with following clauses of mentioned specifications:

CLAUSES[1] FROM STANDARDS REFERENCED IN PROCEDURES:	MET[2]	NOT MET	COMMENTS
Manufacturer specifications			
Manufacturer specifications: Sound pressure level	X		
Manufacturer specifications: Frequency	X		
Manufacturer specifications: Total harmonic distortion	X		
Current standards			
ANSI S1.40:2006 B.3 / IEC 60942: 2003 B.2 - Preliminary inspection	X		
ANSI S1.40:2006 B.4.4 / IEC 60942: 2003 B.3.4 - Sound pressure level	X		
ANSI S1.40:2006 A.5.4 / IEC 60942: 2003 A.4.4 - Sound pressure level stability	-	-	
ANSI S1.40:2006 B.4.5 / IEC 60942: 2003 B.3.5 - Frequency	X		
ANSI S1.40:2006 B.4.6 / IEC 60942: 2003 B.3.6 - Total harmonic distortion	X		

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 The tests marked with (*) are not covered by the current NVLAP accreditation.

Main measured parameters [3]:

Measured[4]/Acceptable[5] Tone frequency (Hz):	Measured[4]/Acceptable[5] Total Harmonic Distortion (%):	Measured [4]/Acceptable Level[5] (dB):
1000.41 ± 1.0/1000.0 ± 10.0	0.19 ± 0.10/ < 3	114.14 ± 0.12/114.0 ± 0.4

3 The stated level is valid at reference conditions.

4 The above expanded uncertainties for frequency and distortion are calculated with a coverage factor k=2; for level k=2.00

5 Acceptable parameters values are from the current standards

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
23.3 ± 1.0	100.74 ± 0.000	55.3 ± 2.0

Tests made with following attachments to instrument:

Calibrator ½" Adaptor Type: 1443
Other:

Adjustments: Unit was not adjusted.
Comments: The instrument was tested and met all specifications found in the referenced procedures.

Note: The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

Measured Data: in Acoustical Calibrator Test Report # 44209 of one page.

Place of Calibration: Scantek, Inc.
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

Certificate of Calibration and Conformance

This document certifies that the instrument referenced below meets published specifications per Procedure PRD-P263; ANSI S1.4-1983 (R 2006) Type 1; S1.4A-1985; S1.43-1997 Type 1; S1.11-2004 Octave Band Class 0; S1.25-1991; IEC 61672-2002 Class 1; 60651-2001 Type 1; 60804-2000 Type 1; 61260-2001 Class 0; 61252-2002.

Manufacturer:	Larson Davis	Temperature:	72.4	°F
Model Number:	831		22.44	°C
Serial Number:	3308	Rel. Humidity:	38.8	%
Customer:	TMS Rental	Pressure:	992.4	mbars
Description:	Sound Level Meter		992.4	hPa
Note:	As Found/As Left: In Tolerance			

Upon receipt for testing, this instrument was found to be:

Within the stated tolerance of the manufacturer's specification.

Calibration Date: 17-Mar-20 Calibration Due:

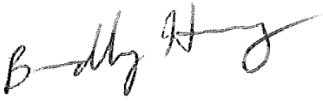
Calibration Standards Used:

Manufacturer	Model	Serial Number	Cal Due
Stanford Research Systems	DS360	123270	5/6/2020

This Certificate attests that this instrument has been calibrated under the stated conditions with Measurement and Test Equipment (M&TE) Standards traceable to the National Institute of Standards and Technology (NIST). All of the Measurement Standards have been calibrated to their manufacturers' specified accuracy / uncertainty. Evidence of traceability and accuracy is on file at The Modal Shop and/or Larson Davis Corporate Headquarters. An acceptable accuracy ratio between the Standard(s) and the item calibrated has been maintained. This instrument meets or exceeds the manufacturer's published specification unless noted.

The results documented in this certificate relate only to the item(s) calibrated or tested. Calibration interval assignment and adjustment are the responsibility of the end user. This certificate may not be reproduced, except in full, without the written approval of The Modal Shop.

Technician: Bradly Haarmeyer Signature:



THE MODAL SHOP
A PCB GROUP CO.

3149 East Kemper Road
Cincinnati, OH. 45241
Phone: (513) 351-9919
(800) 860-4867
www.modalshop.com

THE MODAL SHOP INC.
A PCB GROUP CO.

3149 East Kemper Rd.
Cincinnati, OH 45241
Ph: 513-351-9919
Fax: 513-458-2172
www.modalshop.com

~Certificate of Calibration~

Manufacturer: PCB
Model Number: 377B02
Serial Number: 310089
Asset ID:
Description: Free-Field Microphone

Customer: TMS Rental
Address:

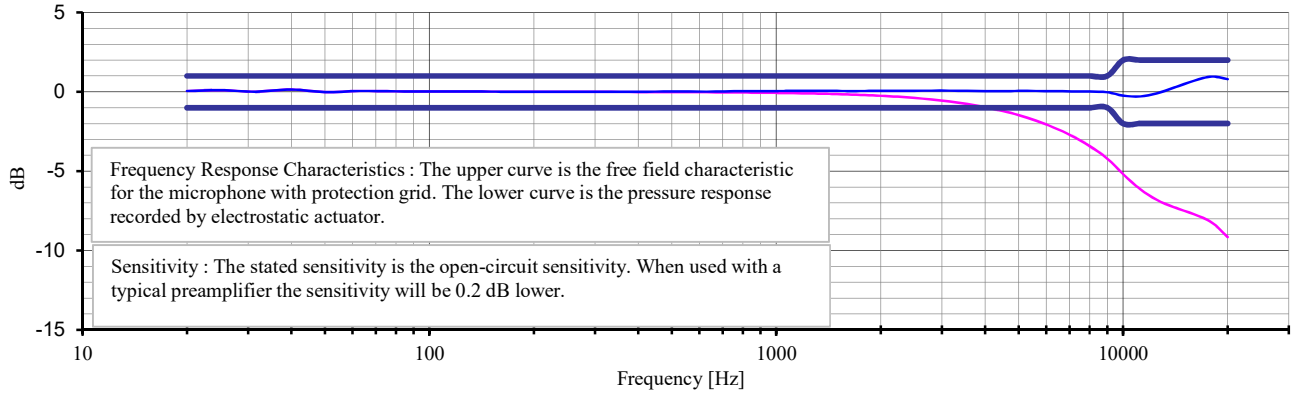
Cal Date / Cal ID: Apr 16, 2020 13:08:58
Due Date:

Sensitivity:	**250 Hz**	**1 kHz**	
	-26.13	-26.20	dB re. 1V/Pa
	49.36	48.99	mV/Pa

Temperature:	72 (22)	°F (°C)
Humidity:	23	%
Ambient Pressure:	1005	mbar

Reference Sens: In Tolerance
Freq. Response: In Tolerance

Polarization Voltage: 0 VDC



Traceability: The calibration is traceable through NIST Project A2007.
Notes: Calibration results relate only to the items calibrated.
This certificate may not be reproduced, except in full, without written permission.
This calibration is performed in compliance with ISO 9001, ISO 17025 and ANSI Z540.
Measurement uncertainty (250 Hz sensitivity calibration) at 95% confidence level: 0.30 dB
Calibrated per procedure PRD-P204.

User Note: As Found / As Left: In Tolerance.

Frequency Response with reference to level at 250 Hz

Frequency (Hz)	Upper (dB)	Frequency (Hz)	Upper (dB)	Frequency (Hz)	Upper (dB)	Frequency (Hz)	Upper (dB)
20	0.05	**630**	0.01	**4500**	0.04		
25	0.11	**800**	0.05	**5000**	0.06		
31.5	0.01	**1000**	0.05	**5600**	0.05		
40	0.14	**1120**	0.06	**6300**	0.04		
50	-0.02	**1250**	0.06	**7100**	0.03		
63	0.05	**1400**	0.06	**8000**	0.01		
80	0.03	**1600**	0.05	**9000**	-0.03		
100	0.02	**1800**	0.05	**10000**	-0.24		
125	0.02	**2000**	0.06	**11200**	-0.29		
160	0.01	**2240**	0.06	**12500**	-0.10		
200	0.01	**2500**	0.07	**14000**	0.26		
250	0.00	**2800**	0.07	**16000**	0.70		
315	0.01	**3150**	0.07	**18000**	0.96		
400	0.00	**3550**	0.06	**20000**	0.80		
500	0.02	**4000**	0.05				

Technician: Ed Devlin

Approval: Edward A. Devlin

Reference Equipment Used:

Manuf.	*Model*	*Serial*	*Cal. Date*	*Due Date*
GRAS	40AG	58094	2/19/2020	2/19/2021

ACCREDITED
Calibration Lab
CALIBRATION CERT 2649.01

Scantek, Inc.
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.44214

Instrument: **Sound Level Meter**
Model: **831**
Manufacturer: **Larson Davis**
Serial number: **0004373**
Tested with: **Microphone 377C20 s/n 165061**
Preamplifier PRM831 s/n 046514
Type (class): **1**
Customer: **Epsilon Associates, Inc.**
Tel/Fax: **978-461-6235 / choyt@epsilonassociates.com**

Date Calibrated: **1/16/2020** *Cal Due:* **1/16/2021**

Status:	Received	Sent
In tolerance:	X	X
Out of tolerance:		
See comments:		

Contains non-accredited tests: ___Yes _X_ No
Calibration service: ___ Basic _X_ Standard
Address: **3 Mill & Main Place, Suite 250, Maynard, MA 01754**

Tested in accordance with the following procedures and standards:
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Oct 31, 2019	Scantek, Inc./ NVLAP	Oct 31, 2020
DS-360-SRS	Function Generator	33584	Oct 23, 2019	ACR Env./ A2LA	Oct 23, 2021
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Oct 22, 2019	ACR Env. / A2LA	Oct 22, 2020
HM30-Thommen	Meteo Station	1040170/39633	Oct 24, 2019	ACR Env./ A2LA	Oct 24, 2020
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Oct 23, 2019	Scantek, Inc./ NVLAP	Oct 23, 2020

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
24.3	100.30	47.7

Calibrated by:	Lydon Dawkins	**Authorized signatory:**	William D. Gallagher
Signature	Lydon Dawkins	Signature	William D Gallagher
Date	1/16/2020	Date	1/16/2020

Results summary: Device complies with following clauses of mentioned specifications:

CLAUSES [1] FROM IEC/ANSI STANDARDS REFERENCED IN PROCEDURES:	RESULT[2,3]	EXPANDED UNCERTAINTY (coverage factor 2) [dB]
INDICATION AT THE CALIBRATION CHECK FREQUENCY - IEC61672-3 ED.2 CLAUSE 10	Passed	0.15
SELF-GENERATED NOISE - IEC 61672-3 ED.2 CLAUSE 11	Passed	0.30
FREQUENCY WEIGHTINGS: A NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.20
FREQUENCY WEIGHTINGS: C NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.20
FREQUENCY WEIGHTINGS: Z NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.20
FREQUENCY AND TIME WEIGHTINGS AT 1 KHZ IEC 61672-3 ED.2.0 CLAUSE 14	Passed	0.20
LEVEL LINEARITY ON THE REFERENCE LEVEL RANGE - IEC 61672-3 ED.2 CLAUSE 16	Passed	0.25
LEVEL LINEARITY INCLUDING THE LEVEL RANGE CONTROL - IEC 61672-3 ED.2.0 CLAUSE 17	Passed	0.25
TONEBURST RESPONSE - IEC 61672-3 ED.2.0 CLAUSE 18	Passed	0.30
PEAK C SOUND LEVEL - IEC 61672-3 ED.2.0 CLAUSE 19	Passed	0.35
OVERLOAD INDICATION - IEC 61672-3 ED.2.0 CLAUSE 20	Passed	0.25
HIGH LEVEL STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 21	Passed	0.10
LONG TERM STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 15	Passed	0.10
FILTER TEST 1/1OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3	Passed	0.25
FILTER TEST 1/3OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3	Passed	0.25
COMBINED ELECTRICAL AND ACOUSTICAL TEST - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	See test report

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 Parameters are certified at actual environmental conditions.

3 The tests marked with (*) are not covered by the current NVLAP accreditation.

Comments: The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organization responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2, to demonstrate that the model of sound level meter fully conforms to the requirements in the IEC 61672-2, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1.

Note: The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

Tests made with the following attachments to the instrument:

Microphone: PCB Piezotronics 377C20 s/n 165061 for acoustical test
Preamplifier: Larson Davis PRM831 s/n 046514 for all tests
Other: line adaptor ADP005 (18pF) for electrical tests
Accompanying acoustical calibrator: Larson Davis CAL200 s/n 13675
Windscreen: none

Measured Data: in Test Report # 44214 of 9 + 1 pages.

Place of Calibration: Scantek, Inc.
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA

Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

Scantek, Inc.
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.44215

Instrument: **Microphone**
Model: **377C20**
Manufacturer: **PCB Piezotronics**
Serial number: **165061**

Composed of:

Date Calibrated: **1/15/2020** *Cal Due:* **1/15/2021**

Status:	**Received**	**Sent**
In tolerance:	**X**	**X**
Out of tolerance:		
See comments:		

Contains non-accredited tests: **__Yes _X_ No**

Customer: **Epsilon Associates, Inc.**
Tel/Fax: **978-461-6235/choyt@epsilonassociates.com**

Address: **3 Mill & Main Place, Suite 250, Maynard, MA 01754**

Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 2/25/2015

Instrumentation used for calibration: N-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Oct 31, 2019	Scantek, Inc./ NVLAP	Oct 31, 2020
DS-360-SRS	Function Generator	33584	Oct 23, 2019	ACR Env./ A2LA	Oct 23, 2021
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Oct 22, 2019	ACR Env. / A2LA	Oct 22, 2020
HM30-Thommen	Meteo Station	1040170/39633	Oct 24, 2019	ACR Env./ A2LA	Oct 24, 2020
PC Program 1017 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1253-Norsonic	Calibrator	28326	Oct 23, 2019	Scantek, Inc./ NVLAP	Oct 23, 2020
1203-Norsonic	Preamplifier	14059	Feb 28, 2019	Scantek, Inc./ NVLAP	Feb 28, 2020
4180-Brüel&Kjær	Microphone	2246115	Oct 1, 2019	DPLA / DANAK	Oct 1, 2021

Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA)

Calibrated by:	Lydon Dawkins	**Authorized signatory:**	William D. Gallagher
Signature	Lydon Dawkins	Signature	William D Gallagher
Date	1/15/2020	Date	1/16/2020

Results summary: Device was tested and complies with following clauses of mentioned specifications:

CLAUSES / METHODS[1] FROM PROCEDURES		MET[2,3]	NOT MET	NOT TESTED	MEASUREMENT EXPANDED UNCERTAINTY (coverage factor 2)
Open circuit sensitivity (insert voltage method, 250 Hz)		X			See below
Frequency response	Actuator response	X			63 – 200Hz: 0.3 dB 200 – 8000 Hz: 0.2 dB 8 – 10 kHz: 0.5 dB 10 – 20 kHz: 0.7 dB 20 – 50 kHz: 0.9 dB 50 – 100 kHz: 1.2 dB
	FF/Diffuse field responses	X			63 – 200Hz: 0.3 dB 200 – 4000 Hz: 0.2 dB 4 – 10 kHz: 0.6 dB 10 – 20 kHz: 0.9 dB 20 – 50 kHz: 2.2 dB 50 – 100 kHz: 4.4 dB
	Scantek, Inc. acoustical method			X	31.5 – 125 Hz: 0.16 dB 250, 1000 Hz: 0.12 dB 2 – 8 kHz: 0.8 dB 12.5 – 16 kHz: 2.4 dB

[1] The results of this calibration apply only to the instrument type with serial number identified in this report.

[2] Results are normalized to the reference conditions.

[3] The tests marked with (*) are not covered by the current NVLAP accreditation.

Note: The free field/diffuse field characteristics were calculated based on the measured actuator response and adjustment coefficients as provided by the manufacturer. The uncertainties reported for these characteristics may include assumed uncertainty components for the adjustment coefficients.

Comments: The instrument was tested and met all specifications found in the referenced procedures.

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
24.7 ± 1.0	100.43 ± 0.020	44.9 ± 2.0

Main measured parameters:

Tone frequency (Hz)	Measured[4]/Acceptable Open circuit sensitivity (dB re 1V/Pa)	Sensitivity (mV/Pa)
250	-27.25 ± 0.12/ -26.0 ±1.5	43.39

[4] The reported expanded uncertainty is calculated with a coverage factor k=2.00

Tests made with following attachments to instrument and auxiliary devices:

Protection grid mounted for sensitivity measurements
Actuator type: G.R.A.S. RA0014

Measured Data: Found on Microphone Test Report # 44215 of one page.

Place of Calibration: Scantek, Inc.
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

Scantek, Inc.
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.44216

Instrument: **Sound Level Meter**
Model: **831**
Manufacturer: **Larson Davis**
Serial number: **0004374**
Tested with: **Microphone 377C20 s/n 165110**
Preamplifier PRM831 s/n 046515
Type (class): **1**
Customer: **Epsilon Associates, Inc.**
Tel/Fax: **978-461-6235 / choyt@epsilonassociates.com**

Date Calibrated: **1/16/2020** *Cal Due:* **1/16/2021**

Status:	Received	Sent
In tolerance:	X	X
Out of tolerance:		
See comments:		

Contains non-accredited tests: __Yes _X_ No
Calibration service: __ Basic _X_ Standard
Address: **3 Mill & Main Place, Suite 250, Maynard, MA 01754**

Tested in accordance with the following procedures and standards:
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Oct 31, 2019	Scantek, Inc./ NVLAP	Oct 31, 2020
DS-360-SRS	Function Generator	33584	Oct 23, 2019	ACR Env./ A2LA	Oct 23, 2021
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Oct 22, 2019	ACR Env. / A2LA	Oct 22, 2020
HM30-Thommen	Meteo Station	1040170/39633	Oct 24, 2019	ACR Env./ A2LA	Oct 24, 2020
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Oct 23, 2019	Scantek, Inc./ NVLAP	Oct 23, 2020

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
23.6	100.32	46.1

Calibrated by:	Lydon Dawkins	**Authorized signatory:**	William D. Gallagher
Signature	Lydon Dawkins	Signature	William D Gallagher
Date	1/16/2020	Date	1/16/2020

Results summary: Device complies with following clauses of mentioned specifications:

CLAUSES[1] FROM IEC/ANSI STANDARDS REFERENCED IN PROCEDURES:	RESULT[2,3]	EXPANDED UNCERTAINTY (coverage factor 2) [dB]
INDICATION AT THE CALIBRATION CHECK FREQUENCY - IEC61672-3 ED.2 CLAUSE 10	Passed	0.15
SELF-GENERATED NOISE - IEC 61672-3 ED.2 CLAUSE 11	Passed	0.30
FREQUENCY WEIGHTINGS: A NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.20
FREQUENCY WEIGHTINGS: C NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.20
FREQUENCY WEIGHTINGS: Z NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.20
FREQUENCY AND TIME WEIGHTINGS AT 1 KHZ IEC 61672-3 ED.2.0 CLAUSE 14	Passed	0.20
LEVEL LINEARITY ON THE REFERENCE LEVEL RANGE - IEC 61672-3 ED.2 CLAUSE 16	Passed	0.25
LEVEL LINEARITY INCLUDING THE LEVEL RANGE CONTROL - IEC 61672-3 ED.2.0 CLAUSE 17	Passed	0.25
TONEBURST RESPONSE - IEC 61672-3 ED.2.0 CLAUSE 18	Passed	0.30
PEAK C SOUND LEVEL - IEC 61672-3 ED.2.0 CLAUSE 19	Passed	0.35
OVERLOAD INDICATION - IEC 61672-3 ED.2.0 CLAUSE 20	Passed	0.25
HIGH LEVEL STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 21	Passed	0.10
LONG TERM STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 15	Passed	0.10
FILTER TEST 1/1OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3	Passed	0.25
FILTER TEST 1/3OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3	Passed	0.25
COMBINED ELECTRICAL AND ACOUSTICAL TEST - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	See test report

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 Parameters are certified at actual environmental conditions.

3 The tests marked with (*) are not covered by the current NVLAP accreditation.

Comments: The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organization responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2, to demonstrate that the model of sound level meter fully conforms to the requirements in the IEC 61672-2, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1.

Note: The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

Tests made with the following attachments to the instrument:

Microphone: PCB Piezotronics 377C20 s/n 165110 for acoustical test
Preamplifier: Larson Davis PRM831 s/n 046515 for all tests
Other: line adaptor ADP005 (18pF) for electrical tests
Accompanying acoustical calibrator: Larson Davis CAL200 s/n 13676
Windscreen: none

Measured Data: in Test Report # 44216 of 9 + 1 pages.

Place of Calibration: Scantek, Inc.
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

Scantek, Inc.
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.44217

Instrument: **Microphone**
Model: **377C20**
Manufacturer: **PCB Piezotronics**
Serial number: **165110**

Composed of:

Date Calibrated: **1/15/2020** *Cal Due:* **1/15/2021**

Status:	**Received**	**Sent**
In tolerance:	**X**	**X**
Out of tolerance:		
See comments:		

Contains non-accredited tests: **__Yes _X_ No**

Customer: **Epsilon Associates, Inc.**
Tel/Fax: **978-461-6235/choyt@epsilonassociates.com**

Address: **3 Mill & Main Place, Suite 250, Maynard, MA 01754**

Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 2/25/2015

Instrumentation used for calibration: N-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Oct 31, 2019	Scantek, Inc./ NVLAP	Oct 31, 2020
DS-360-SRS	Function Generator	33584	Oct 23, 2019	ACR Env./ A2LA	Oct 23, 2021
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Oct 22, 2019	ACR Env. / A2LA	Oct 22, 2020
HM30-Thommen	Meteo Station	1040170/39633	Oct 24, 2019	ACR Env./ A2LA	Oct 24, 2020
PC Program 1017 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1253-Norsonic	Calibrator	28326	Oct 23, 2019	Scantek, Inc./ NVLAP	Oct 23, 2020
1203-Norsonic	Preamplifier	14059	Feb 28, 2019	Scantek, Inc./ NVLAP	Feb 28, 2020
4180-Brüel&Kjær	Microphone	2246115	Oct 1, 2019	DPLA / DANAK	Oct 1, 2021

Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA)

Calibrated by:	Lydon Dawkins	**Authorized signatory:**	William D. Gallagher
Signature	Lydon Dawkins	Signature	William D Gallagher
Date	1/15/2020	Date	1/16/2020

Results summary: Device was tested and complies with following clauses of mentioned specifications:

CLAUSES / METHODS[1] FROM PROCEDURES		MET[2,3]	NOT MET	NOT TESTED	MEASUREMENT EXPANDED UNCERTAINTY (coverage factor 2)
Open circuit sensitivity (insert voltage method, 250 Hz)		X			See below
Frequency response	Actuator response	X			63 – 200Hz: 0.3 dB 200 – 8000 Hz: 0.2 dB 8 – 10 kHz: 0.5 dB 10 – 20 kHz: 0.7 dB 20 – 50 kHz: 0.9 dB 50 – 100 kHz: 1.2 dB
	FF/Diffuse field responses	X			63 – 200Hz: 0.3 dB 200 – 4000 Hz: 0.2 dB 4 – 10 kHz: 0.6 dB 10 – 20 kHz: 0.9 dB 20 – 50 kHz: 2.2 dB 50 – 100 kHz: 4.4 dB
	Scantek, Inc. acoustical method			X	31.5 – 125 Hz: 0.16 dB 250, 1000 Hz: 0.12 dB 2 – 8 kHz: 0.8 dB 12.5 – 16 kHz: 2.4 dB

[1] The results of this calibration apply only to the instrument type with serial number identified in this report.

[2] Results are normalized to the reference conditions.

[3] The tests marked with (*) are not covered by the current NVLAP accreditation.

Note: The free field/diffuse field characteristics were calculated based on the measured actuator response and adjustment coefficients as provided by the manufacturer. The uncertainties reported for these characteristics may include assumed uncertainty components for the adjustment coefficients.

Comments: The instrument was tested and met all specifications found in the referenced procedures.

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
24.7 ± 1.0	100.43 ± 0.020	44.9 ± 2.0

Main measured parameters:

Tone frequency (Hz)	Measured[4] /Acceptable Open circuit sensitivity (dB re 1V/Pa)	Sensitivity (mV/Pa)
250	-27.63 ± 0.12/ -26.0 ±1.5	41.53

[4] The reported expanded uncertainty is calculated with a coverage factor k=2.00

Tests made with following attachments to instrument and auxiliary devices:

Protection grid mounted for sensitivity measurements
Actuator type: G.R.A.S. RA0014

Measured Data: Found on Microphone Test Report # 44217 of one page.

Place of Calibration: Scantek, Inc.
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

Scantek, Inc.
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.44218

Instrument: **Sound Level Meter**
Model: **831**
Manufacturer: **Larson Davis**
Serial number: **0004375**
Tested with: **Microphone 377C20 s/n 165757**
Preamplifier PRM831 s/n 046516
Type (class): **1**
Customer: **Epsilon Associates, Inc.**
Tel/Fax: **978-461-6235 / choyt@epsilonassociates.com**

Date Calibrated: **1/16/2020** *Cal Due:* **1/16/2021**

Status:	Received	Sent
In tolerance:	X	X
Out of tolerance:		
See comments:		

Contains non-accredited tests: ___Yes _X_ No
Calibration service: ___ Basic _X_ Standard
Address: **3 Mill & Main Place, Suite 250, Maynard, MA 01754**

Tested in accordance with the following procedures and standards:
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Oct 31, 2019	Scantek, Inc./ NVLAP	Oct 31, 2020
DS-360-SRS	Function Generator	33584	Oct 23, 2019	ACR Env./ A2LA	Oct 23, 2021
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Oct 22, 2019	ACR Env. / A2LA	Oct 22, 2020
HM30-Thommen	Meteo Station	1040170/39633	Oct 24, 2019	ACR Env./ A2LA	Oct 24, 2020
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Oct 23, 2019	Scantek, Inc./ NVLAP	Oct 23, 2020

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
24.4	100.45	42.2

Calibrated by:	Lydon Dawkins	**Authorized signatory:**	William D. Gallagher
Signature	Lydon Dawkins	Signature	William D Gallagher
Date	1/16/2020	Date	1/16/2020

Results summary: Device complies with following clauses of mentioned specifications:

CLAUSES [1] FROM IEC/ANSI STANDARDS REFERENCED IN PROCEDURES:	RESULT [2,3]	EXPANDED UNCERTAINTY (coverage factor 2) [dB]
INDICATION AT THE CALIBRATION CHECK FREQUENCY - IEC61672-3 ED.2 CLAUSE 10	Passed	0.15
SELF-GENERATED NOISE - IEC 61672-3 ED.2 CLAUSE 11	Passed	0.30
FREQUENCY WEIGHTINGS: A NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.20
FREQUENCY WEIGHTINGS: C NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.20
FREQUENCY WEIGHTINGS: Z NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.20
FREQUENCY AND TIME WEIGHTINGS AT 1 KHZ IEC 61672-3 ED.2.0 CLAUSE 14	Passed	0.20
LEVEL LINEARITY ON THE REFERENCE LEVEL RANGE - IEC 61672-3 ED.2 CLAUSE 16	Passed	0.25
LEVEL LINEARITY INCLUDING THE LEVEL RANGE CONTROL - IEC 61672-3 ED.2.0 CLAUSE 17	Passed	0.25
TONEBURST RESPONSE - IEC 61672-3 ED.2.0 CLAUSE 18	Passed	0.30
PEAK C SOUND LEVEL - IEC 61672-3 ED.2.0 CLAUSE 19	Passed	0.35
OVERLOAD INDICATION - IEC 61672-3 ED.2.0 CLAUSE 20	Passed	0.25
HIGH LEVEL STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 21	Passed	0.10
LONG TERM STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 15	Passed	0.10
FILTER TEST 1/1OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3	Passed	0.25
FILTER TEST 1/3OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3	Passed	0.25
COMBINED ELECTRICAL AND ACOUSTICAL TEST - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	See test report

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 Parameters are certified at actual environmental conditions.

3 The tests marked with (*) are not covered by the current NVLAP accreditation.

Comments: The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organization responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2, to demonstrate that the model of sound level meter fully conforms to the requirements in the IEC 61672-2, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1.

Note: The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

Tests made with the following attachments to the instrument:

Microphone: PCB Piezotronics 377C20 s/n 165757 for acoustical test
Preamplifier: Larson Davis PRM831 s/n 046516 for all tests
Other: line adaptor ADP005 (18pF) for electrical tests
Accompanying acoustical calibrator: Larson Davis CAL200 s/n 13676
Windscreen: none

Measured Data: in Test Report # 44218 of 9 + 1 pages.

Place of Calibration: Scantek, Inc.
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

Scantek, Inc.
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.44219

Instrument: **Microphone**
Model: **377C20**
Manufacturer: **PCB Piezotronics**
Serial number: **165757**

Composed of:

Date Calibrated: **1/15/2020** *Cal Due:* **1/15/2021**

Status:	**Received**	**Sent**
In tolerance:	**X**	**X**
Out of tolerance:		
See comments:		

Contains non-accredited tests: __Yes _X_ No

Customer: **Epsilon Associates, Inc.**
Tel/Fax: **978-461-6235/choyt@epsilonassociates.com**

Address: **3 Mill & Main Place, Suite 250, Maynard, MA 01754**

Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 2/25/2015

Instrumentation used for calibration: N-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Oct 31, 2019	Scantek, Inc./ NVLAP	Oct 31, 2020
DS-360-SRS	Function Generator	33584	Oct 23, 2019	ACR Env./ A2LA	Oct 23, 2021
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Oct 22, 2019	ACR Env. / A2LA	Oct 22, 2020
HM30-Thommen	Meteo Station	1040170/39633	Oct 24, 2019	ACR Env./ A2LA	Oct 24, 2020
PC Program 1017 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1253-Norsonic	Calibrator	28326	Oct 23, 2019	Scantek, Inc./ NVLAP	Oct 23, 2020
1203-Norsonic	Preamplifier	14059	Feb 28, 2019	Scantek, Inc./ NVLAP	Feb 28, 2020
4180-Brüel&Kjær	Microphone	2246115	Oct 1, 2019	DPLA / DANAK	Oct 1, 2021

Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA)

Calibrated by:	Lydon Dawkins	**Authorized signatory:**	William D. Gallagher
Signature	Lydon Dawkins	Signature	William D Gallagher
Date	1/15/2020	Date	1/16/2020

Results summary: Device was tested and complies with following clauses of mentioned specifications:

CLAUSES / METHODS[1] FROM PROCEDURES		MET[2,3]	NOT MET	NOT TESTED	MEASUREMENT EXPANDED UNCERTAINTY (coverage factor 2)
Open circuit sensitivity (insert voltage method, 250 Hz)		X			See below
Frequency response	Actuator response	X			63 – 200Hz: 0.3 dB 200 – 8000 Hz: 0.2 dB 8 – 10 kHz: 0.5 dB 10 – 20 kHz: 0.7 dB 20 – 50 kHz: 0.9 dB 50 – 100 kHz: 1.2 dB
	FF/Diffuse field responses	X			63 – 200Hz: 0.3 dB 200 – 4000 Hz: 0.2 dB 4 – 10 kHz: 0.6 dB 10 – 20 kHz: 0.9 dB 20 – 50 kHz: 2.2 dB 50 – 100 kHz: 4.4 dB
	Scantek, Inc. acoustical method			X	31.5 – 125 Hz: 0.16 dB 250, 1000 Hz: 0.12 dB 2 – 8 kHz: 0.8 dB 12.5 – 16 kHz: 2.4 dB

[1] The results of this calibration apply only to the instrument type with serial number identified in this report.

[2] Results are normalized to the reference conditions.

[3] The tests marked with (*) are not covered by the current NVLAP accreditation.

Note: The free field/diffuse field characteristics were calculated based on the measured actuator response and adjustment coefficients as provided by the manufacturer. The uncertainties reported for these characteristics may include assumed uncertainty components for the adjustment coefficients.

Comments: The instrument was tested and met all specifications found in the referenced procedures.

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
25.0 ± 1.0	100.35 ± 0.020	41.0 ± 2.0

Main measured parameters:

Tone frequency (Hz)	Measured[4] /Acceptable Open circuit sensitivity (dB re 1V/Pa)	Sensitivity (mV/Pa)
250	-26.87 ± 0.12/ -26.0 ±1.5	45.35

[4] The reported expanded uncertainty is calculated with a coverage factor k=2.00

Tests made with following attachments to instrument and auxiliary devices:

Protection grid mounted for sensitivity measurements
Actuator type: G.R.A.S. RA0014

Measured Data: Found on Microphone Test Report # 44219 of one page.

Place of Calibration: Scantek, Inc.
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

Calibration Certificate

Certificate Number 2020006953

Customer:

Epsilon Associates Inc
Suite 250
3 Mill and Main Place
Maynard, MA 01754, United States

Model Number	831C	***Procedure Number***	D0001.8384		
Serial Number	11182	***Technician***	Kyle Holm		
Test Results	**Pass**	***Calibration Date***	24 Jun 2020		
Initial Condition	As Manufactured	***Calibration Due***			
Description	Larson Davis Model 831C Class 1 Sound Level Meter Firmware Revision: 04.5.0R0	***Temperature***	23.56	°C	± 0.25 °C
		Humidity	52.5	%RH	± 2.0 %RH
		Static Pressure	86.1	kPa	± 0.13 kPa

Evaluation Method ***Tested with:*** ***Data reported in dB re 20 µPa.***

Larson Davis PRM831. S/N 016478
PCB 377B20. S/N 112256
Larson Davis CAL200. S/N 9079
Larson Davis CAL291. S/N 0108

Compliance Standards Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8378:

IEC 60651:2001 Type 1	ANSI S1.4-2014 Class 1
IEC 60804:2000 Type 1	ANSI S1.4 (R2006) Type 1
IEC 61260:2014 Class 1	ANSI S1.11-2014 Class 1
IEC 61672:2013 Class 1	ANSI S1.43 (R2007) Type 1

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005.
Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

Correction data from Larson Davis SoundAdvisor Model 831C Reference Manual, I831C.01 Rev B, 2017-03-31

For 1/4" microphones, the Larson Davis ADP024 1/4" to 1/2" adaptor is used with the calibrators and the Larson Davis ADP043 1/4" to

1/2" adaptor is used with the preamplifier.

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa; Reference Range: 0 dB gain

Periodic tests were performed in accordance with precedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

No Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 available.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. However, no general statement or conclusion can be made about conformance of the sound level meter to the full specifications of IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 because (a) evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 or correction data for acoustical test of frequency weighting were not provided in the Instruction Manual and (b) because the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3 cover only a limited subset of the specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

Standards Used

Description	Cal Date	Cal Due	Cal Standard
Larson Davis CAL291 Residual Intensity Calibrator	2019-09-18	2020-09-18	001250
Hart Scientific 2626-S Humidity/Temperature Sensor	2019-07-18	2020-07-18	006946
Larson Davis CAL200 Acoustic Calibrator	2019-07-22	2020-07-22	007027
Larson Davis Model 831	2020-03-02	2021-03-02	007182
PCB 377A13 1/2 inch Prepolarized Pressure Microphone	2020-03-05	2021-03-05	007185
SRS DS360 Ultra Low Distortion Generator	2020-04-14	2021-04-14	007635

Acoustic Calibration

Measured according to IEC 61672-3:2013 10 and ANSI S1.4-2014 Part 3: 10

Measurement	Test Result [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
1000 Hz	114.00	113.80	114.20	0.14	Pass

Acoustic Signal Tests, C-weighting

Measured according to IEC 61672-3:2013 12 and ANSI S1.4-2014 Part 3: 12 using a comparison coupler with Unit Under Test (UUT) and reference SLM using slow time-weighted sound level for compliance to IEC 61672-1:2013 5.5; ANSI S1.4-2014 Part 1: 5.5

Frequency [Hz]	Test Result [dB]	Expected [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
125	-0.11	-0.20	-1.20	0.80	0.23	Pass
1000	0.10	0.00	-0.70	0.70	0.23	Pass
8000	-3.31	-3.00	-5.50	-1.50	0.32	Pass

-- End of measurement results--

Self-generated Noise

Measured according to IEC 61672-3:2013 11.1 and ANSI S1.4-2014 Part 3: 11.1

Measurement	Test Result [dB]
A-weighted, 20 dB gain	40.82

-- End of measurement results--

-- End of Report--

Signatory: Kyle Holm

LARSON DAVIS - A PCB PIEZOTRONICS DIV.
1681 West 820 North
Provo, UT 84601, United States
716-684-0001

ACCREDITED Cert. #3622.01

LARSON DAVIS A PCB PIEZOTRONICS DIV.

Calibration Certificate

Certificate Number 2020006932

Customer:

Epsilon Associates Inc
Suite 250
3 Mill and Main Place
Maynard, MA 01754, United States

Model Number	831C	***Procedure Number***	D0001.8378		
Serial Number	11182	***Technician***	Kyle Holm		
Test Results	**Pass**	***Calibration Date***	23 Jun 2020		
Initial Condition	As Manufactured	***Calibration Due***			
Description	Larson Davis Model 831C Class 1 Sound Level Meter Firmware Revision: 04.5.0R0	***Temperature***	23.88	°C	± 0.25 °C
		Humidity	51.7	%RH	± 2.0 %RH
		Static Pressure	86.32	kPa	± 0.13 kPa

Evaluation Method Tested electrically using Larson Davis PRM831 S/N 016478 and a 12.0 pF capacitor to simulate microphone capacitance. Data reported in dB re 20 µPa assuming a microphone sensitivity of 50.0 mV/Pa.

Compliance Standards Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8384:

IEC 60651:2001 Type 1	ANSI S1.4-2014 Class 1
IEC 60804:2000 Type 1	ANSI S1.4 (R2006) Type 1
IEC 61672:2013 Class 1	ANSI S1.43 (R2007) Type 1
IEC 61260:2014 Class 1	ANSI S1.11-2014 Class 1

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005. **Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.**

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

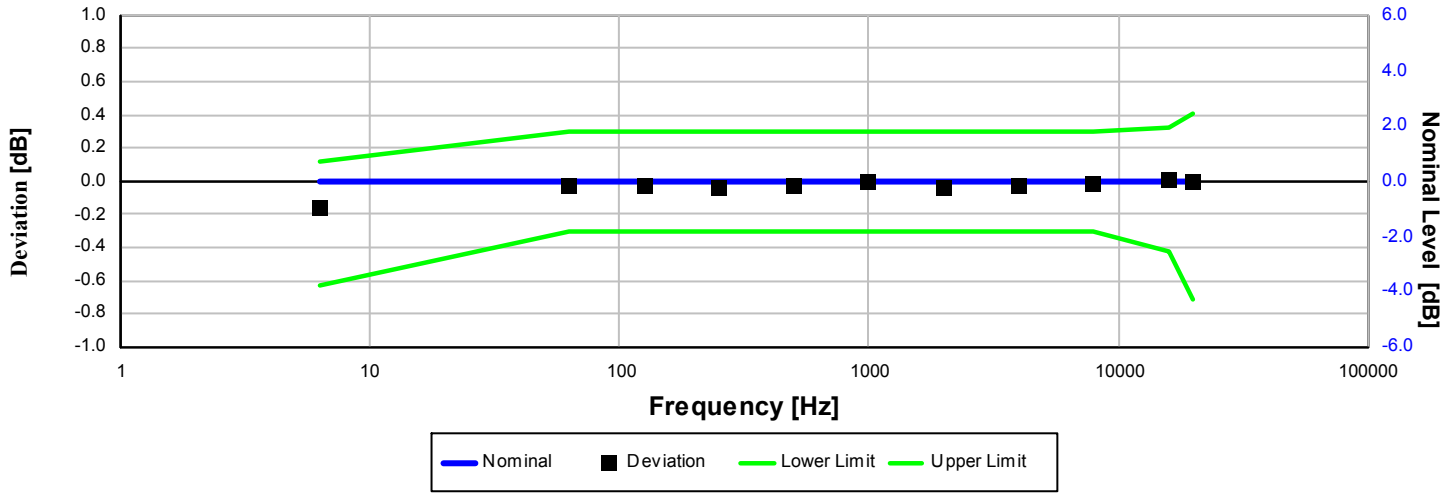
The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

Correction data from Larson Davis SoundAdvisor Model 831C Reference Manual, I831C.01 Rev M, 2019-09-10

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa; Reference Range: 0 dB gain

Standards Used			
Description	**Cal Date**	**Cal Due**	**Cal Standard**
Hart Scientific 2626-S Humidity/Temperature Sensor	2019-07-18	2020-07-18	006946
SRS DS360 Ultra Low Distortion Generator	2020-01-17	2021-01-17	007118

Z-weight Filter Response

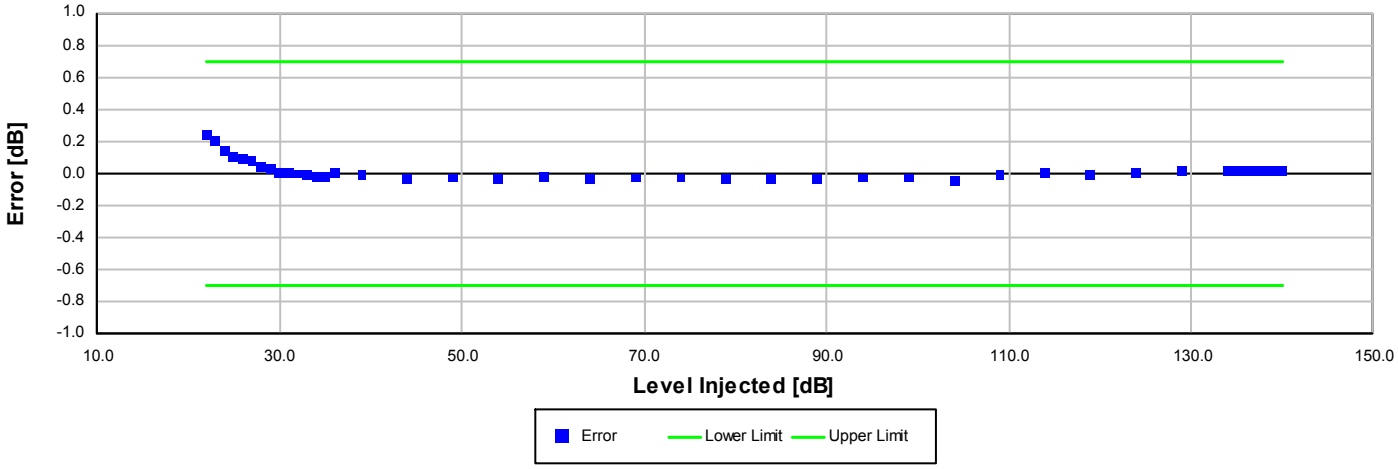


Electrical signal test of frequency weighting performed according to IEC 61672-3:2013 13 and ANSI S1.4-2014 Part 3: 13 for compliance to IEC 61672-1:2013 5.5; IEC 60651:2001 6.1 and 9.2.2; IEC 60804:2000 5; ANSI S1.4:1983 (R2006) 5.1 and 8.2.1; ANSI S1.4-2014 Part 1: 5.5

Frequency [Hz]	Test Result [dB]	Deviation [dB]	Lower limit [dB]	Upper limit [dB]	Expanded Uncertainty [dB]	Result
6.31	-0.16	-0.16	-0.63	0.12	0.15	Pass
63.10	-0.03	-0.03	-0.30	0.30	0.15	Pass
125.89	-0.03	-0.03	-0.30	0.30	0.15	Pass
251.19	-0.04	-0.04	-0.30	0.30	0.15	Pass
501.19	-0.03	-0.03	-0.30	0.30	0.15	Pass
1,000.00	0.00	0.00	-0.30	0.30	0.15	Pass
1,995.26	-0.03	-0.03	-0.30	0.30	0.15	Pass
3,981.07	-0.03	-0.03	-0.30	0.30	0.15	Pass
7,943.28	-0.02	-0.02	-0.30	0.30	0.15	Pass
15,848.93	0.01	0.01	-0.42	0.32	0.15	Pass
19,952.62	0.00	0.00	-0.71	0.41	0.15	Pass

-- End of measurement results--

A-weighted 0 dB Gain Broadband Log Linearity: 8,000.00 Hz



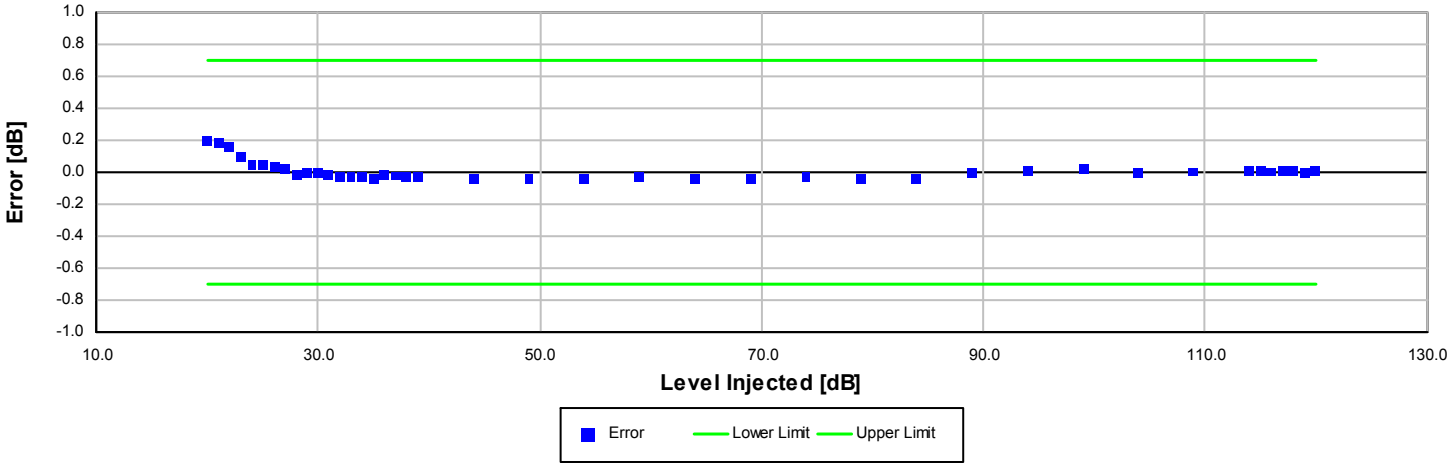
Broadband level linearity performed according to IEC 61672-3:2013 16 and ANSI S1.4-2014 Part 3: 16 for compliance to IEC 61672-1:2013 5.6, IEC 60804:2000 6.2, IEC 61252:2002 8, ANSI S1.4 (R2006) 6.9, ANSI S1.4-2014 Part 1: 5.6, ANSI S1.43 (R2007) 6.2

Level [dB]	Error [dB]	Lower limit [dB]	Upper limit [dB]	Expanded Uncertainty [dB]	Result
22.00	0.25	-0.70	0.70	0.16	Pass
23.00	0.21	-0.70	0.70	0.16	Pass
24.00	0.15	-0.70	0.70	0.16	Pass
25.00	0.10	-0.70	0.70	0.16	Pass
26.00	0.09	-0.70	0.70	0.16	Pass
27.00	0.08	-0.70	0.70	0.16	Pass
28.00	0.04	-0.70	0.70	0.16	Pass
29.00	0.02	-0.70	0.70	0.18	Pass
30.00	0.01	-0.70	0.70	0.17	Pass
31.00	0.01	-0.70	0.70	0.17	Pass
32.00	0.00	-0.70	0.70	0.17	Pass
33.00	0.00	-0.70	0.70	0.16	Pass
34.00	-0.02	-0.70	0.70	0.16	Pass
35.00	-0.02	-0.70	0.70	0.16	Pass
36.00	0.00	-0.70	0.70	0.16	Pass
39.00	-0.01	-0.70	0.70	0.16	Pass
44.00	-0.03	-0.70	0.70	0.16	Pass
49.00	-0.03	-0.70	0.70	0.16	Pass
54.00	-0.04	-0.70	0.70	0.16	Pass
59.00	-0.02	-0.70	0.70	0.16	Pass
64.00	-0.03	-0.70	0.70	0.16	Pass
69.00	-0.03	-0.70	0.70	0.16	Pass
74.00	-0.03	-0.70	0.70	0.16	Pass
79.00	-0.04	-0.70	0.70	0.16	Pass
84.00	-0.03	-0.70	0.70	0.16	Pass
89.00	-0.03	-0.70	0.70	0.16	Pass
94.00	-0.03	-0.70	0.70	0.16	Pass
99.00	-0.03	-0.70	0.70	0.16	Pass
104.00	-0.05	-0.70	0.70	0.15	Pass
109.00	-0.01	-0.70	0.70	0.15	Pass
114.00	0.00	-0.70	0.70	0.15	Pass
119.00	0.00	-0.70	0.70	0.15	Pass
124.00	0.01	-0.70	0.70	0.15	Pass
129.00	0.01	-0.70	0.70	0.15	Pass
134.00	0.02	-0.70	0.70	0.15	Pass
135.00	0.02	-0.70	0.70	0.15	Pass

Level [dB]	Error [dB]	Lower limit [dB]	Upper limit [dB]	Expanded Uncertainty [dB]	Result
136.00	0.01	-0.70	0.70	0.15	Pass
137.00	0.02	-0.70	0.70	0.15	Pass
138.00	0.02	-0.70	0.70	0.15	Pass
139.00	0.02	-0.70	0.70	0.15	Pass
140.00	0.02	-0.70	0.70	0.15	Pass

-- End of measurement results--

A-weighted 20 dB Gain Broadband Log Linearity: 8,000.00 Hz



Broadband level linearity performed according to IEC 61672-3:2013 16 and ANSI S1.4-2014 Part 3: 16 for compliance to IEC 61672-1:2013 5.6, IEC 60804:2000 6.2, IEC 61252:2002 8, ANSI S1.4 (R2006) 6.9, ANSI S1.4-2014 Part 1: 5.6, ANSI S1.43 (R2007) 6.2

Level [dB]	Error [dB]	Lower limit [dB]	Upper limit [dB]	Expanded Uncertainty [dB]	Result
20.00	0.19	-0.70	0.70	0.17	Pass
21.00	0.18	-0.70	0.70	0.16	Pass
22.00	0.15	-0.70	0.70	0.16	Pass
23.00	0.09	-0.70	0.70	0.16	Pass
24.00	0.04	-0.70	0.70	0.16	Pass
25.00	0.04	-0.70	0.70	0.16	Pass
26.00	0.02	-0.70	0.70	0.19	Pass
27.00	0.02	-0.70	0.70	0.18	Pass
28.00	-0.02	-0.70	0.70	0.19	Pass
29.00	-0.01	-0.70	0.70	0.18	Pass
30.00	-0.01	-0.70	0.70	0.17	Pass
31.00	-0.02	-0.70	0.70	0.17	Pass
32.00	-0.04	-0.70	0.70	0.17	Pass
33.00	-0.04	-0.70	0.70	0.16	Pass
34.00	-0.04	-0.70	0.70	0.16	Pass
35.00	-0.05	-0.70	0.70	0.16	Pass
36.00	-0.02	-0.70	0.70	0.16	Pass
37.00	-0.03	-0.70	0.70	0.16	Pass
38.00	-0.03	-0.70	0.70	0.16	Pass
39.00	-0.03	-0.70	0.70	0.16	Pass
44.00	-0.04	-0.70	0.70	0.16	Pass
49.00	-0.04	-0.70	0.70	0.16	Pass
54.00	-0.05	-0.70	0.70	0.16	Pass
59.00	-0.04	-0.70	0.70	0.16	Pass
64.00	-0.04	-0.70	0.70	0.16	Pass
69.00	-0.04	-0.70	0.70	0.16	Pass
74.00	-0.04	-0.70	0.70	0.16	Pass
79.00	-0.05	-0.70	0.70	0.16	Pass
84.00	-0.04	-0.70	0.70	0.16	Pass
89.00	-0.01	-0.70	0.70	0.16	Pass
94.00	0.01	-0.70	0.70	0.16	Pass
99.00	0.01	-0.70	0.70	0.16	Pass
104.00	-0.01	-0.70	0.70	0.15	Pass
109.00	0.00	-0.70	0.70	0.15	Pass
114.00	0.00	-0.70	0.70	0.15	Pass
115.00	0.00	-0.70	0.70	0.15	Pass

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ACCREDITED Cert. #3622.01

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Level [dB]	Error [dB]	Lower limit [dB]	Upper limit [dB]	Expanded Uncertainty [dB]	Result
116.00	0.00	-0.70	0.70	0.15	Pass
117.00	0.01	-0.70	0.70	0.15	Pass
118.00	0.01	-0.70	0.70	0.15	Pass
119.00	0.00	-0.70	0.70	0.15	Pass
120.00	0.01	-0.70	0.70	0.15	Pass

-- End of measurement results--

Peak Rise Time

Peak rise time performed according to IEC 60651:2001 9.4.4 and ANSI S1.4:1983 (R2006) 8.4.4

Amplitude [dB]	Duration [µs]		Test Result [dB]	Lower limit [dB]	Upper limit [dB]	Expanded Uncertainty [dB]	Result
139.00	40	Negative Pulse	135.97	134.62	136.62	0.15	Pass
		Positive Pulse	135.97	134.62	136.62	0.15	Pass
	30	Negative Pulse	135.14	134.62	136.62	0.15	Pass
		Positive Pulse	135.14	134.62	136.62	0.15	Pass

-- End of measurement results--

Positive Pulse Crest Factor

200 µs pulse tests at 2.0, 12.0, 22.0, 32.0 dB below Overload Limit

Crest Factor measured according to IEC 60651:2001 9.4.2 and ANSI S1.4:1983 (R2006) 8.4.2

Amplitude [dB]	Crest Factor	Test Result [dB]	Limits [dB]	Expanded Uncertainty [dB]	Result
138.00	3	OVLD	± 0.50	0.15 ‡	Pass
	5	OVLD	± 1.00	0.15 ‡	Pass
	10	OVLD	± 1.50	0.15 ‡	Pass
128.00	3	-0.12	± 0.50	0.15 ‡	Pass
	5	-0.10	± 1.00	0.15 ‡	Pass
	10	OVLD	± 1.50	0.15 ‡	Pass
118.00	3	-0.13	± 0.50	0.15 ‡	Pass
	5	-0.13	± 1.00	0.15 ‡	Pass
	10	-0.18	± 1.50	0.15 ‡	Pass
108.00	3	-0.13	± 0.50	0.15 ‡	Pass
	5	-0.13	± 1.00	0.15 ‡	Pass
	10	-0.17	± 1.50	0.15 ‡	Pass

-- End of measurement results--

Negative Pulse Crest Factor

200 µs pulse tests at 2.0, 12.0, 22.0, 32.0 dB below Overload Limit

Crest Factor measured according to IEC 60651:2001 9.4.2 and ANSI S1.4:1983 (R2006) 8.4.2

Amplitude [dB]	Crest Factor	Test Result [dB]	Limits [dB]	Expanded Uncertainty [dB]	Result
138.00	3	OVLD	± 0.50	0.15 ‡	Pass
	5	OVLD	± 1.00	0.15 ‡	Pass
	10	OVLD	± 1.50	0.15 ‡	Pass
128.00	3	-0.11	± 0.50	0.15 ‡	Pass
	5	-0.11	± 1.00	0.15 ‡	Pass
	10	OVLD	± 1.50	0.15 ‡	Pass
118.00	3	-0.13	± 0.50	0.15 ‡	Pass
	5	-0.13	± 1.00	0.15 ‡	Pass
	10	-0.09	± 1.50	0.15 ‡	Pass
108.00	3	-0.14	± 0.50	0.15 ‡	Pass
	5	-0.11	± 1.00	0.15 ‡	Pass
	10	0.00	± 1.50	0.16 ‡	Pass

-- End of measurement results--

Gain

Gain measured according to IEC 61672-3:2013 17.3 and 17.4 and ANSI S1.4-2014 Part 3: 17.3 and 17.4

Measurement	Test Result [dB]	Lower limit [dB]	Upper limit [dB]	Expanded Uncertainty [dB]	Result
0 dB Gain	94.00	93.92	94.12	0.15	Pass
0 dB Gain, Linearity	28.08	27.32	28.72	0.16	Pass
20 dB Gain	94.03	93.92	94.12	0.15	Pass
20 dB Gain, Linearity	23.06	22.32	23.72	0.16	Pass
OBA High Range	94.02	93.20	94.80	0.15	Pass
OBA Normal Range	94.02	93.92	94.12	0.15	Pass

-- End of measurement results--

Broadband Noise Floor

Self-generated noise measured according to IEC 61672-3:2013 11.2 and ANSI S1.4-2014 Part 3: 11.2

Measurement	Test Result [dB]	Upper limit [dB]	Result
A-weight Noise Floor	6.36	9.00	Pass
C-weight Noise Floor	11.72	15.00	Pass
Z-weight Noise Floor	21.51	25.00	Pass

-- End of measurement results--

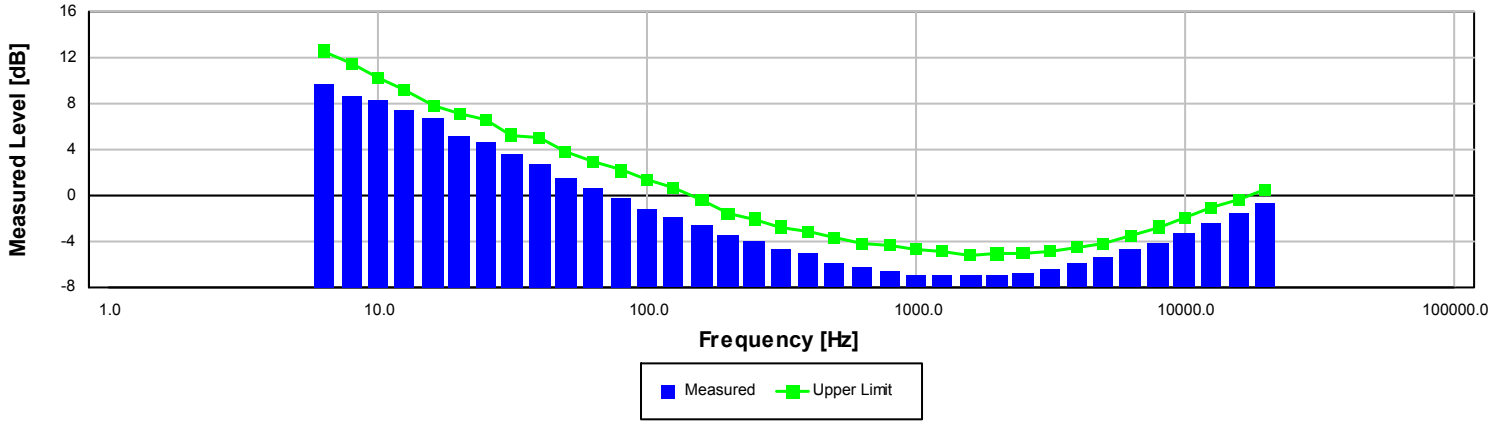
Total Harmonic Distortion

Measured using 1/3-Octave filters

Measurement	Test Result [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
10 Hz Signal	137.54	137.20	138.80	0.15	Pass
THD	-76.77		-60.00	1.30 ‡	Pass
THD+N	-75.75		-60.00	1.30 ‡	Pass

-- End of measurement results--

1/3-Octave Self-Generated Noise



The SLM is set to normal range and 20 dB gain.

Frequency [Hz]	Test Result [dB]	Upper limit [dB]	Result
6.30	9.80	12.60	Pass
8.00	8.62	11.50	Pass
10.00	8.41	10.20	Pass
12.50	7.56	9.20	Pass
16.00	6.84	7.90	Pass
20.00	5.14	7.20	Pass
25.00	4.65	6.60	Pass
31.50	3.58	5.30	Pass
40.00	2.76	5.00	Pass
50.00	1.51	3.80	Pass
63.00	0.71	3.00	Pass
80.00	-0.17	2.20	Pass
100.00	-1.18	1.40	Pass
125.00	-1.92	0.70	Pass
160.00	-2.62	-0.40	Pass
200.00	-3.40	-1.50	Pass
250.00	-4.06	-2.00	Pass
315.00	-4.71	-2.70	Pass
400.00	-5.09	-3.10	Pass
500.00	-5.83	-3.70	Pass
630.00	-6.27	-4.10	Pass
800.00	-6.55	-4.30	Pass
1,000.00	-6.94	-4.70	Pass
1,250.00	-6.91	-4.80	Pass
1,600.00	-7.01	-5.20	Pass
2,000.00	-7.02	-5.10	Pass
2,500.00	-6.74	-5.00	Pass
3,150.00	-6.40	-4.80	Pass
4,000.00	-5.98	-4.50	Pass
5,000.00	-5.42	-4.10	Pass
6,300.00	-4.77	-3.40	Pass
8,000.00	-4.08	-2.70	Pass
10,000.00	-3.33	-1.90	Pass
12,500.00	-2.48	-1.10	Pass
16,000.00	-1.62	-0.30	Pass
20,000.00	-0.68	0.60	Pass

-- End of measurement results--

-- End of Report--

Signatory: Kyle Holm

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Calibration Certificate

Certificate Number 2020006929
Customer:
Epsilon Associates Inc
Suite 250
3 Mill and Main Place
Maynard, MA 01754, United States

Model Number	PRM831	***Procedure Number***	D0001.8383		
Serial Number	016478	***Technician***	Kyle Holm		
Test Results	**Pass**	***Calibration Date***	23 Jun 2020		
Initial Condition	As Manufactured	***Calibration Due***			
		Temperature	23.88	°C	± 0.01 °C
Description	Larson Davis 1/2" Preamplifier for Model 831 Type 1	***Humidity***	50.8	%RH	± 0.5 %RH
		Static Pressure	86.35	kPa	± 0.03 kPa

Evaluation Method Tested electrically using a 12.0 pF capacitor to simulate microphone capacitance. Data reported in dB re 20 µPa assuming a microphone sensitivity of 50.0 mV/Pa.

Compliance Standards Compliant to Manufacturer Specifications

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the SI through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005.
Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2015.

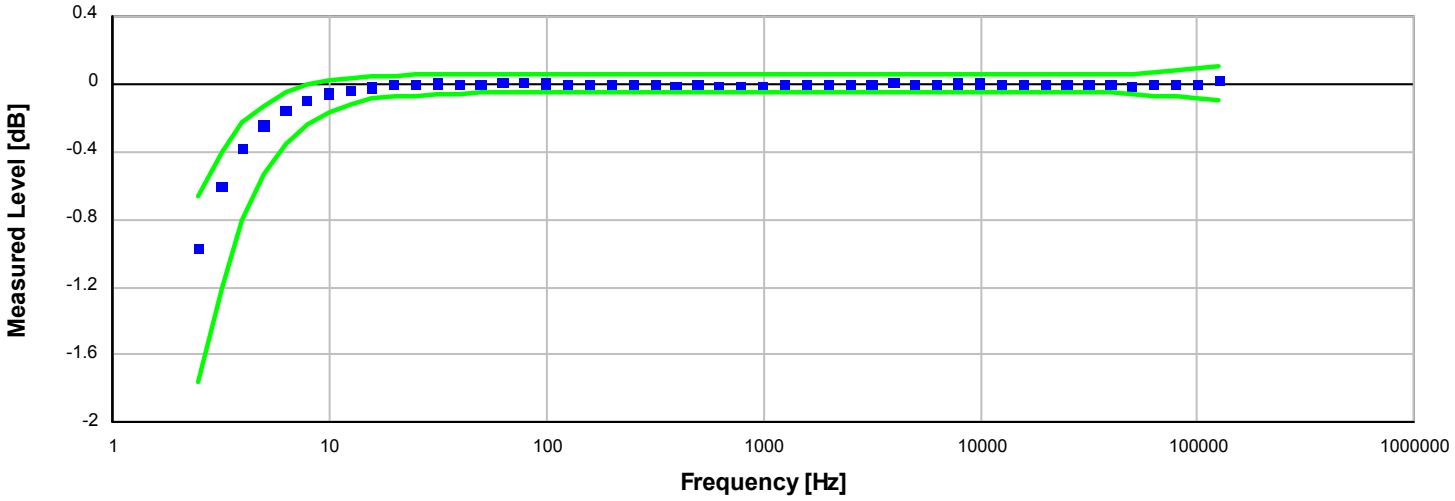
This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

Standards Used

Description	Cal Date	Cal Due	Cal Standard
Larson Davis Model 2900 Real Time Analyzer	02/17/2020	02/17/2021	001447
Hart Scientific 2626-S Humidity/Temperature Sensor	07/18/2019	07/18/2020	006946
Agilent 34401A DMM	07/15/2019	07/15/2020	007116
SRS DS360 Ultra Low Distortion Generator	03/17/2020	03/17/2021	007174

Frequency Response



Frequency response electrically tested at 120.0 dB re 1 µV

Frequency [Hz]	Test Result [dB re 1 kHz]	Lower limit [dB]	Upper limit [dB]	Expanded Uncertainty [dB]	Result
2.50	-0.98	-1.76	-0.66	0.12	Pass
3.20	-0.61	-1.20	-0.40	0.12	Pass
4.00	-0.39	-0.81	-0.23	0.12	Pass
5.00	-0.25	-0.53	-0.13	0.12	Pass
6.30	-0.16	-0.36	-0.05	0.12	Pass
7.90	-0.11	-0.24	-0.01	0.12	Pass
10.00	-0.06	-0.17	0.03	0.12	Pass
12.60	-0.05	-0.13	0.04	0.12	Pass
15.80	-0.03	-0.09	0.04	0.12	Pass
20.00	-0.01	-0.08	0.05	0.12	Pass
25.10	0.00	-0.07	0.05	0.12	Pass
31.60	0.00	-0.07	0.05	0.12	Pass
39.80	-0.01	-0.06	0.05	0.12	Pass
50.10	-0.01	-0.06	0.05	0.12	Pass
63.10	0.00	-0.05	0.05	0.12	Pass
79.40	0.00	-0.05	0.05	0.12	Pass
100.00	0.00	-0.05	0.05	0.12	Pass
125.90	-0.01	-0.05	0.05	0.12	Pass
158.50	-0.01	-0.05	0.05	0.12	Pass
199.50	-0.01	-0.05	0.05	0.12	Pass
251.20	-0.01	-0.05	0.05	0.12	Pass
316.20	-0.02	-0.05	0.05	0.12	Pass
398.10	-0.02	-0.05	0.05	0.12	Pass
501.20	-0.01	-0.05	0.05	0.12	Pass
631.00	-0.02	-0.05	0.05	0.12	Pass
794.30	-0.02	-0.05	0.05	0.12	Pass
1,000.00	-0.02	-0.05	0.05	0.12	Pass
1,258.90	-0.01	-0.05	0.05	0.12	Pass
1,584.90	-0.01	-0.05	0.05	0.12	Pass
1,995.30	-0.01	-0.05	0.05	0.12	Pass
2,511.90	-0.01	-0.05	0.05	0.12	Pass
3,162.30	-0.01	-0.05	0.05	0.12	Pass

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Frequency [Hz]	Test Result [dB re 1 kHz]	Lower limit [dB]	Upper limit [dB]	Expanded Uncertainty [dB]	Result
3,981.10	0.00	-0.05	0.05	0.12	Pass
5,011.90	-0.01	-0.05	0.05	0.12	Pass
6,309.60	-0.01	-0.05	0.05	0.12	Pass
7,943.30	0.00	-0.05	0.05	0.12	Pass
10,000.00	0.00	-0.05	0.05	0.12	Pass
12,589.30	-0.02	-0.05	0.05	0.12	Pass
15,848.90	-0.01	-0.05	0.05	0.12	Pass
19,952.60	-0.01	-0.05	0.05	0.12	Pass
25,118.90	-0.01	-0.05	0.05	0.12	Pass
31,622.80	-0.01	-0.05	0.05	0.12	Pass
39,810.70	-0.01	-0.05	0.05	0.12	Pass
50,118.70	-0.02	-0.06	0.06	0.12	Pass
63,095.70	-0.01	-0.07	0.07	0.12	Pass
79,432.80	-0.01	-0.08	0.08	0.12	Pass
100,000.00	-0.01	-0.09	0.09	0.12	Pass
125,892.50	0.01	-0.10	0.10	0.26	Pass

Gain Measurement

Measurement	Test Result [dB]	Lower limit [dB]	Upper limit [dB]	Expanded Uncertainty [dB]	Result
Output Gain @ 1 kHz	-0.12	-0.45	-0.03	0.12	Pass

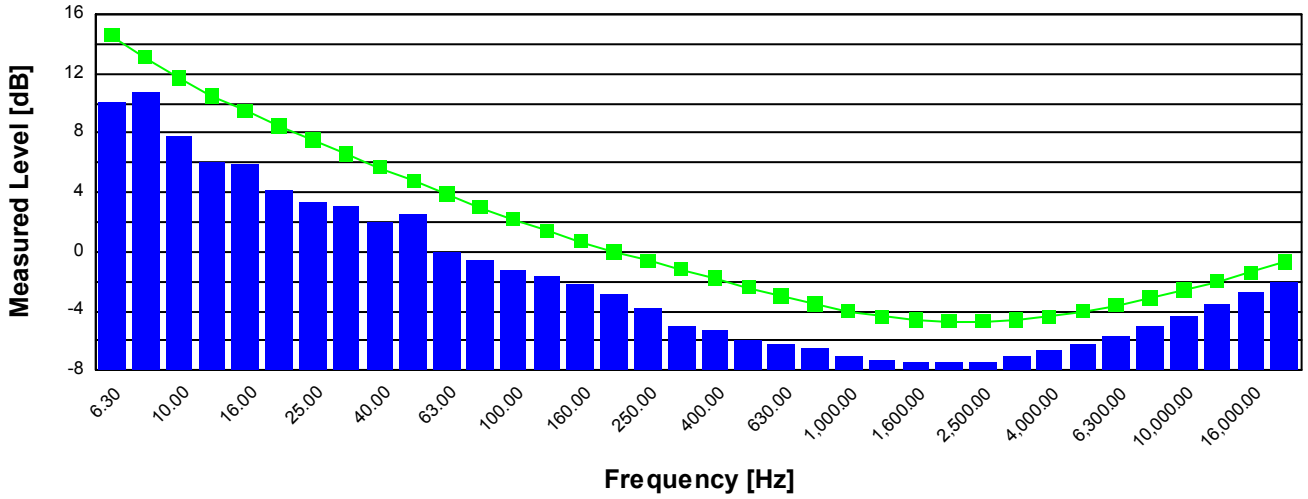
-- End of measurement results--

DC Bias Measurement

Measurement	Test Result [V]	Lower limit [V]	Upper limit [V]	Expanded Uncertainty [V]	Result
DC Voltage	18.89	15.50	19.50	0.04 ‡	Pass

-- End of measurement results--

1/3-Octave Self-Generated Noise



Frequency [Hz]	Test Result [dB re 1 µV]	Upper limit [dB re 1 µV]	Result
6.30	10.10	14.60	Pass
8.00	10.70	13.10	Pass
10.00	7.80	11.70	Pass
12.50	6.10	10.50	Pass
16.00	5.90	9.50	Pass
20.00	4.10	8.50	Pass
25.00	3.40	7.50	Pass
31.50	3.10	6.60	Pass
40.00	2.00	5.70	Pass
50.00	2.50	4.80	Pass
63.00	0.00	3.90	Pass
80.00	-0.50	3.00	Pass
100.00	-1.20	2.20	Pass
125.00	-1.60	1.40	Pass
160.00	-2.20	0.70	Pass
200.00	-2.90	0.00	Pass
250.00	-3.80	-0.60	Pass
315.00	-5.00	-1.20	Pass
400.00	-5.30	-1.80	Pass
500.00	-5.90	-2.40	Pass
630.00	-6.20	-3.00	Pass
800.00	-6.50	-3.50	Pass
1,000.00	-7.00	-4.00	Pass
1,250.00	-7.30	-4.40	Pass
1,600.00	-7.40	-4.60	Pass
2,000.00	-7.40	-4.70	Pass
2,500.00	-7.40	-4.70	Pass
3,150.00	-7.00	-4.60	Pass
4,000.00	-6.60	-4.40	Pass
5,000.00	-6.20	-4.00	Pass
6,300.00	-5.70	-3.60	Pass
8,000.00	-5.00	-3.10	Pass
10,000.00	-4.30	-2.60	Pass
12,500.00	-3.50	-2.00	Pass
16,000.00	-2.70	-1.40	Pass
20,000.00	-2.00	-0.70	Pass

-- End of measurement results--

LARSON DAVIS - A PCB PIEZOTRONICS DIV.
1681 West 820 North
Provo, UT 84601, United States
716-684-0001

ACCREDITED Cert. #3622.01

LARSON DAVIS A PCB PIEZOTRONICS DIV.

Self-generated Noise

Bandwidth	Test Result [µV]	Test Result [dB re 1 µV]	Upper limit [dB re 1 µV]	Result
A-weighted (1 Hz - 20 kHz)	1.95	5.80	8.00	Pass
Broadband (1 Hz - 20 kHz)	4.27	12.60	15.50	Pass

-- End of measurement results--

Signatory: Kyle Holm

LARSON DAVIS - A PCB PIEZOTRONICS DIV.
1681 West 820 North
Provo, UT 84601, United States
716-684-0001

Scantek, Inc.
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.44515

Instrument: **Sound Level Meter**
Model: **140**
Manufacturer: **Norsonic**
Serial number: **1403178**
Tested with: **Microphone 40AN s/n 73449**
Preamplifier 1209 s/n 12492
Type (class): **1**
Customer: **Epsilon Associates, Inc.**
Tel/Fax: **978-461-6235 / 978-897-0099**

Date Calibrated: **3/4/2020** *Cal Due:* **3/4/2021**

Status:	Received	Sent
In tolerance:	X	X
Out of tolerance:		
See comments:		

Contains non-accredited tests: __Yes X No
Calibration service: __ Basic X Standard
Address: **3 Mill & Main Place, Suite 250**
Maynard, MA 01754

Tested in accordance with the following procedures and standards:
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31061	Jul 31, 2019	Scantek, Inc./ NVLAP	Jul 31, 2020
DS-360-SRS	Function Generator	61646	Sep 7, 2018	ACR Env./ A2LA	Sep 7, 2020
34401A-Agilent Technologies	Digital Voltmeter	MY47022043	Sep 16, 2019	ACR Env./ A2LA	Sep 16, 2020
HM30-Thommen	Meteo Station	1040170/39633	Oct 24, 2019	ACR Env./ A2LA	Oct 24, 2020
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Oct 23, 2019	Scantek, Inc./ NVLAP	Oct 23, 2020

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
22.4	99.91	46.1

Calibrated by:	Jeremy Gotwalt	**Authorized signatory:**	Steven E. Marshall
Signature		Signature	
Date	3/4/2020	Date	3/4/2020

Results summary: Device complies with following clauses of mentioned specifications:

CLAUSES[1] FROM IEC/ANSI STANDARDS REFERENCED IN PROCEDURES:	RESULT[2,3]	EXPANDED UNCERTAINTY (coverage factor 2) [dB]
INDICATION AT THE CALIBRATION CHECK FREQUENCY - IEC61672-3 ED.2 CLAUSE 10	Passed	0.15
SELF-GENERATED NOISE - IEC 61672-3 ED.2 CLAUSE 11	For Info	0.3
FREQUENCY WEIGHTINGS: A NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY WEIGHTINGS: C NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY WEIGHTINGS: Z NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY AND TIME WEIGHTINGS AT 1 KHZ IEC 61672-3 ED.2.0 CLAUSE 14	Passed	0.2
LEVEL LINEARITY ON THE REFERENCE LEVEL RANGE - IEC 61672-3 ED.2 CLAUSE 16	Passed	0.25
TONEBURST RESPONSE - IEC 61672-3 ED.2.0 CLAUSE 18	Passed	0.3
PEAK C SOUND LEVEL - IEC 61672-3 ED.2.0 CLAUSE 19	Passed	0.35
OVERLOAD INDICATION - IEC 61672-3 ED.2.0 CLAUSE 20	Passed	0.25
HIGH LEVEL STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 21	Passed	0.1
LONG TERM STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 15	Passed	0.1
FILTER TEST 1/1OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3	Passed	0.25
FILTER TEST 1/3OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3	Passed	0.25
COMBINED ELECTRICAL AND ACOUSTICAL TEST - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	See test report

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 Parameters are certified at actual environmental conditions.

3 The tests marked with (*) are not covered by the current NVLAP accreditation.

Comments: The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organization responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2, to demonstrate that the model of sound level meter fully conforms to the requirements in the IEC 61672-2, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1.

Note: The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

Tests made with the following attachments to the instrument:

Microphone: GRAS 40AN s/n 73449 for acoustical test
Preamplifier: Norsonic 1209 s/n 12492 for all tests
Other: line adaptor ADP005 (18pF) for electrical tests
Accompanying acoustical calibrator: Norsonic 1251 s/n 32059
Windscreen: Norsonic Nor1434 (ø 90mm)

Measured Data: in Test Report # 44515 of 9+1 pages.

Place of Calibration: Scantek, Inc.
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA

Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

Scantek, Inc.
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.44516

Instrument: **Microphone**
Model: **40AN**
Manufacturer: **GRAS**
Serial number: **73449**
Composed of:

Date Calibrated: **3/4/2020** *Cal Due:* **3/4/2021**

Status:	Received	Sent
In tolerance:	X	X
Out of tolerance:		
See comments:		

Contains non-accredited tests: __Yes _X_ No

Customer: **Epsilon Associates, Inc.**
Tel/Fax: **978-461-6235/978-897-0099**
Address: **3 Mill & Main Place, Suite 250**
Maynard, MA 01754

Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 2/25/2015

Instrumentation used for calibration: N-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31061	Jul 31, 2019	Scantek, Inc./ NVLAP	Jul 31, 2020
DS-360-SRS	Function Generator	61646	Sep 7, 2018	ACR Env./ A2LA	Sep 7, 2020
34401A-Agilent Technologies	Digital Voltmeter	MY47022043	Sep 16, 2019	ACR Env./ A2LA	Sep 16, 2020
HM30-Thommen	Meteo Station	1040170/39633	Oct 24, 2019	ACR Env./ A2LA	Oct 24, 2020
PC Program 1017 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1253-Norsonic	Calibrator	28326	Oct 23, 2019	Scantek, Inc./ NVLAP	Oct 23, 2020
1203-Norsonic	Preamplifier	21270	Aug 5, 2019	Scantek, Inc./ NVLAP	Aug 5, 2020
4180-Brüel&Kjær	Microphone	2246115	Oct 1, 2019	DPLA / DANAK	Oct 24, 2021

Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA)

Calibrated by:	Jeremy Gotwalt	Authorized signatory:	Steven E. Marshall
Signature		Signature	
Date	3/4/2020	Date	3/4/2020

Document stored as: Y:\Calibration Lab\Mic 2020\GRAS40AN_73449_M1.doc

Results summary: Device was tested and complies with following clauses of mentioned specifications:

CLAUSES / METHODS[1] FROM PROCEDURES		MET[2,3]	NOT MET	NOT TESTED	MEASUREMENT EXPANDED UNCERTAINTY (coverage factor 2)
Open circuit sensitivity (insert voltage method, 250 Hz)		X			See below
Frequency response	Actuator response	X			63 – 200Hz: 0.3 dB 200 – 8000 Hz: 0.2 dB 8 – 10 kHz: 0.5 dB 10 – 20 kHz: 0.7 dB 20 – 50 kHz: 0.9 dB 50 – 100 kHz: 1.2 dB
	FF/Diffuse field responses	X			63 – 200Hz: 0.3 dB 200 – 4000 Hz: 0.2 dB 4 – 10 kHz: 0.6 dB 10 – 20 kHz: 0.9 dB 20 – 50 kHz: 2.2 dB 50 – 100 kHz: 4.4 dB
	Scantek, Inc. acoustical method			X	31.5 – 125 Hz: 0.16 dB 250, 1000 Hz: 0.12 dB 2 – 8 kHz: 0.8 dB 12.5 – 16 kHz: 2.4 dB

[1] The results of this calibration apply only to the instrument type with serial number identified in this report.

[2] Results are normalized to the reference conditions.

[3] The tests marked with (*) are not covered by the current NVLAP accreditation.

Note: The free field/diffuse field characteristics were calculated based on the measured actuator response and adjustment coefficients as provided by the manufacturer. The uncertainties reported for these characteristics may include assumed uncertainty components for the adjustment coefficients.

Comments: The instrument was tested and met all specifications found in the referenced procedures.

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
22.1 ± 0.1	99.92 ± 0.005	48.6 ± 0.1

Main measured parameters:

Tone frequency (Hz)	Measured[4] /Nominal Open circuit sensitivity (dB re 1V/Pa)	Sensitivity (mV/Pa)
250	-25.26 ± 0.12/ -26.0	54.56

[4] The reported expanded uncertainty is calculated with a coverage factor k=2.00

Tests made with following attachments to instrument and auxiliary devices:

Protection grid mounted for sensitivity measurements
Actuator type: G.R.A.S. RA0014

Measured Data: Found on Microphone Test Report # 44516 of one page.

Place of Calibration: Scantek, Inc.
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

Appendix C

SUNY MesoNet Meteorological Data

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200916T000000	2020	09	16	00:00	60.8	66.8	0
20200916T000500	2020	09	16	00:05	60.9	66.5	0
20200916T001000	2020	09	16	00:10	60.9	67.3	0
20200916T001500	2020	09	16	00:15	60.9	67.5	0
20200916T002000	2020	09	16	00:20	60.8	68.3	0
20200916T002500	2020	09	16	00:25	60.8	69	0
20200916T003000	2020	09	16	00:30	60.8	69.1	0
20200916T003500	2020	09	16	00:35	60.7	69	0
20200916T004000	2020	09	16	00:40	60.6	70.3	0
20200916T004500	2020	09	16	00:45	60.2	72.4	0
20200916T005000	2020	09	16	00:50	60.3	73.4	0
20200916T005500	2020	09	16	00:55	60.3	74	0
20200916T010000	2020	09	16	01:00	60.5	74.4	0
20200916T010500	2020	09	16	01:05	60.7	74.1	0
20200916T011000	2020	09	16	01:10	60.8	74.2	0
20200916T011500	2020	09	16	01:15	60.8	73.9	0
20200916T012000	2020	09	16	01:20	60.7	74.4	0
20200916T012500	2020	09	16	01:25	60.9	73.9	0
20200916T013000	2020	09	16	01:30	60.9	73.8	0
20200916T013500	2020	09	16	01:35	61.1	73.5	0
20200916T014000	2020	09	16	01:40	61.3	71.5	0
20200916T014500	2020	09	16	01:45	61.5	69.5	0
20200916T015000	2020	09	16	01:50	61.5	67.4	0
20200916T015500	2020	09	16	01:55	61.4	68.9	0
20200916T020000	2020	09	16	02:00	61.4	69.2	0
20200916T020500	2020	09	16	02:05	61.4	69.3	0
20200916T021000	2020	09	16	02:10	61.4	69	0
20200916T021500	2020	09	16	02:15	61.6	68.2	0
20200916T022000	2020	09	16	02:20	61.6	68.4	0
20200916T022500	2020	09	16	02:25	61.7	68.7	0
20200916T023000	2020	09	16	02:30	61.6	68.2	0
20200916T023500	2020	09	16	02:35	61.4	69	0
20200916T024000	2020	09	16	02:40	61.5	69.2	0
20200916T024500	2020	09	16	02:45	61.4	69.6	0
20200916T025000	2020	09	16	02:50	61.3	70.5	0
20200916T025500	2020	09	16	02:55	61.3	71.3	0
20200916T030000	2020	09	16	03:00	61.4	71.9	0
20200916T030500	2020	09	16	03:05	61.3	72.3	0
20200916T031000	2020	09	16	03:10	61.1	73.2	0
20200916T031500	2020	09	16	03:15	61.1	73.4	0
20200916T032000	2020	09	16	03:20	61.3	72.6	0
20200916T032500	2020	09	16	03:25	61.2	71.8	0
20200916T033000	2020	09	16	03:30	61.2	71.1	0
20200916T033500	2020	09	16	03:35	61.3	70.7	0
20200916T034000	2020	09	16	03:40	61.2	69.5	0
20200916T034500	2020	09	16	03:45	61	69.3	0
20200916T035000	2020	09	16	03:50	61.1	68.3	0
20200916T035500	2020	09	16	03:55	60.8	68.3	0
20200916T040000	2020	09	16	04:00	60.7	68.7	0
20200916T040500	2020	09	16	04:05	60.5	69.2	0
20200916T041000	2020	09	16	04:10	60.3	69.1	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200916T041500	2020	09	16	04:15	60.3	69.4	0
20200916T042000	2020	09	16	04:20	60.2	69.5	0
20200916T042500	2020	09	16	04:25	60.2	69.7	0
20200916T043000	2020	09	16	04:30	60.3	69.3	0
20200916T043500	2020	09	16	04:35	60.2	69.6	0
20200916T044000	2020	09	16	04:40	60.1	69.8	0
20200916T044500	2020	09	16	04:45	60.1	69.8	0
20200916T045000	2020	09	16	04:50	59.9	70.8	0
20200916T045500	2020	09	16	04:55	59.7	71.3	0
20200916T050000	2020	09	16	05:00	59.8	72.1	0
20200916T050500	2020	09	16	05:05	59.9	71.9	0
20200916T051000	2020	09	16	05:10	59.8	73.5	0
20200916T051500	2020	09	16	05:15	59.8	73.9	0
20200916T052000	2020	09	16	05:20	60	73.2	0
20200916T052500	2020	09	16	05:25	60	73.2	0
20200916T053000	2020	09	16	05:30	59.7	74.3	0
20200916T053500	2020	09	16	05:35	59.9	74.2	0
20200916T054000	2020	09	16	05:40	59.9	74.4	0
20200916T054500	2020	09	16	05:45	59.8	74.6	0
20200916T055000	2020	09	16	05:50	59.8	75	0
20200916T055500	2020	09	16	05:55	59.8	75.2	0
20200916T060000	2020	09	16	06:00	59.8	75.8	0
20200916T060500	2020	09	16	06:05	59.9	75.5	0
20200916T061000	2020	09	16	06:10	59.8	75.7	0
20200916T061500	2020	09	16	06:15	59.8	76	0
20200916T062000	2020	09	16	06:20	59.6	76.3	0
20200916T062500	2020	09	16	06:25	59.6	76.1	0
20200916T063000	2020	09	16	06:30	59.5	76.4	0
20200916T063500	2020	09	16	06:35	59.5	76.3	0
20200916T064000	2020	09	16	06:40	59.5	76	0
20200916T064500	2020	09	16	06:45	59.8	75.8	0
20200916T065000	2020	09	16	06:50	59.6	75.6	0
20200916T065500	2020	09	16	06:55	59.5	75.2	0
20200916T070000	2020	09	16	07:00	59.4	75.4	0
20200916T070500	2020	09	16	07:05	59.4	75.4	0
20200916T071000	2020	09	16	07:10	59.5	75.3	0
20200916T071500	2020	09	16	07:15	59.7	74	0
20200916T072000	2020	09	16	07:20	59.5	74.4	0
20200916T072500	2020	09	16	07:25	59.8	74.3	0
20200916T073000	2020	09	16	07:30	59.9	73.3	0
20200916T073500	2020	09	16	07:35	59.9	73.4	0
20200916T074000	2020	09	16	07:40	59.9	73.2	0
20200916T074500	2020	09	16	07:45	60	73.1	0
20200916T075000	2020	09	16	07:50	60	72.7	0
20200916T075500	2020	09	16	07:55	60.1	72	0
20200916T080000	2020	09	16	08:00	60.3	71.5	0
20200916T080500	2020	09	16	08:05	60.4	71.3	0
20200916T081000	2020	09	16	08:10	60.5	71.6	0
20200916T081500	2020	09	16	08:15	60.7	70.5	0
20200916T082000	2020	09	16	08:20	60.8	70.9	0
20200916T082500	2020	09	16	08:25	61	69.6	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200916T083000	2020	09	16	08:30	61.1	69.3	0
20200916T083500	2020	09	16	08:35	61.3	68.5	0
20200916T084000	2020	09	16	08:40	61.6	68.6	0
20200916T084500	2020	09	16	08:45	62	69.7	0
20200916T085000	2020	09	16	08:50	61.9	68.4	0
20200916T085500	2020	09	16	08:55	61.9	70.9	0
20200916T090000	2020	09	16	09:00	61.8	73.4	0
20200916T090500	2020	09	16	09:05	61.7	73.3	0
20200916T091000	2020	09	16	09:10	62.1	73.4	0
20200916T091500	2020	09	16	09:15	62.1	73.1	0
20200916T092000	2020	09	16	09:20	61.9	71.9	0
20200916T092500	2020	09	16	09:25	62.1	72	0
20200916T093000	2020	09	16	09:30	62.2	71	0
20200916T093500	2020	09	16	09:35	62.4	71	0
20200916T094000	2020	09	16	09:40	62.2	71.4	0
20200916T094500	2020	09	16	09:45	62.2	71.1	0
20200916T095000	2020	09	16	09:50	62.5	70.1	0
20200916T095500	2020	09	16	09:55	62.8	69.9	0
20200916T100000	2020	09	16	10:00	63	69.6	0
20200916T100500	2020	09	16	10:05	62.8	70.2	0
20200916T101000	2020	09	16	10:10	63.1	68.6	0
20200916T101500	2020	09	16	10:15	63.2	68.2	0
20200916T102000	2020	09	16	10:20	63.1	67.1	0
20200916T102500	2020	09	16	10:25	63.2	66.8	0
20200916T103000	2020	09	16	10:30	63.7	67	0
20200916T103500	2020	09	16	10:35	63.9	66.5	0
20200916T104000	2020	09	16	10:40	64.3	66.2	0
20200916T104500	2020	09	16	10:45	64.3	65.2	0
20200916T105000	2020	09	16	10:50	64.6	65.2	0
20200916T105500	2020	09	16	10:55	65	65.8	0
20200916T110000	2020	09	16	11:00	65.1	64.9	0
20200916T110500	2020	09	16	11:05	65.7	62.9	0
20200916T111000	2020	09	16	11:10	65.6	63.8	0
20200916T111500	2020	09	16	11:15	66.1	62.2	0
20200916T112000	2020	09	16	11:20	65.9	59.7	0
20200916T112500	2020	09	16	11:25	66.6	61.3	0
20200916T113000	2020	09	16	11:30	66.7	60.1	0
20200916T113500	2020	09	16	11:35	66.6	59.4	0
20200916T114000	2020	09	16	11:40	66.5	60.1	0
20200916T114500	2020	09	16	11:45	65.3	61	0
20200916T115000	2020	09	16	11:50	65.3	62.4	0
20200916T115500	2020	09	16	11:55	66.7	60.1	0
20200916T120000	2020	09	16	12:00	66.6	59.8	0
20200916T120500	2020	09	16	12:05	66.9	59.3	0
20200916T121000	2020	09	16	12:10	67.5	58.6	0
20200916T121500	2020	09	16	12:15	67.1	58.2	0
20200916T122000	2020	09	16	12:20	67.6	58.9	0
20200916T122500	2020	09	16	12:25	67.7	58.6	0
20200916T123000	2020	09	16	12:30	68.3	58.9	0
20200916T123500	2020	09	16	12:35	67.9	58.2	0
20200916T124000	2020	09	16	12:40	68.2	58.3	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200916T124500	2020	09	16	12:45	68.2	58.8	0
20200916T125000	2020	09	16	12:50	68.2	58.2	0
20200916T125500	2020	09	16	12:55	67.9	58.6	0
20200916T130000	2020	09	16	13:00	68.4	58.9	0
20200916T130500	2020	09	16	13:05	68.3	58.6	0
20200916T131000	2020	09	16	13:10	68.3	58.5	0
20200916T131500	2020	09	16	13:15	68.2	58.5	0
20200916T132000	2020	09	16	13:20	68.6	59.2	0
20200916T132500	2020	09	16	13:25	68.5	57.9	0
20200916T133000	2020	09	16	13:30	68.9	58.4	0
20200916T133500	2020	09	16	13:35	69.1	57.5	0
20200916T134000	2020	09	16	13:40	68.8	57.5	0
20200916T134500	2020	09	16	13:45	68.9	56.8	0
20200916T135000	2020	09	16	13:50	69.1	57.3	0
20200916T135500	2020	09	16	13:55	69.5	56.4	0
20200916T140000	2020	09	16	14:00	69.2	55.4	0
20200916T140500	2020	09	16	14:05	69.2	55.3	0
20200916T141000	2020	09	16	14:10	69	53	0
20200916T141500	2020	09	16	14:15	69.3	53.1	0
20200916T142000	2020	09	16	14:20	69.5	51.5	0
20200916T142500	2020	09	16	14:25	69.4	50.2	0
20200916T143000	2020	09	16	14:30	69.6	50.7	0
20200916T143500	2020	09	16	14:35	69.9	51.6	0
20200916T144000	2020	09	16	14:40	70	52.3	0
20200916T144500	2020	09	16	14:45	70.1	52.4	0
20200916T145000	2020	09	16	14:50	70.1	54.2	0
20200916T145500	2020	09	16	14:55	69.9	52.7	0
20200916T150000	2020	09	16	15:00	70	53.3	0
20200916T150500	2020	09	16	15:05	69.9	53.8	0
20200916T151000	2020	09	16	15:10	70	54.6	0
20200916T151500	2020	09	16	15:15	70	55.5	0
20200916T152000	2020	09	16	15:20	70	55.8	0
20200916T152500	2020	09	16	15:25	70	55.3	0
20200916T153000	2020	09	16	15:30	70	53.7	0
20200916T153500	2020	09	16	15:35	70.1	55.1	0
20200916T154000	2020	09	16	15:40	69.9	55.1	0
20200916T154500	2020	09	16	15:45	69.7	55.9	0
20200916T155000	2020	09	16	15:50	69.7	56.1	0
20200916T155500	2020	09	16	15:55	69.9	56.9	0
20200916T160000	2020	09	16	16:00	69.7	56.8	0
20200916T160500	2020	09	16	16:05	69.8	58.3	0
20200916T161000	2020	09	16	16:10	69.9	58.2	0
20200916T161500	2020	09	16	16:15	69.9	58.2	0
20200916T162000	2020	09	16	16:20	70	56.7	0
20200916T162500	2020	09	16	16:25	70	57.1	0
20200916T163000	2020	09	16	16:30	69.9	59.3	0
20200916T163500	2020	09	16	16:35	69.9	59.5	0
20200916T164000	2020	09	16	16:40	69.9	60.5	0
20200916T164500	2020	09	16	16:45	69.8	61.4	0
20200916T165000	2020	09	16	16:50	69.8	61.7	0
20200916T165500	2020	09	16	16:55	69.9	59.7	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200916T170000	2020	09	16	17:00	69.8	60.2	0
20200916T170500	2020	09	16	17:05	69.7	61.3	0
20200916T171000	2020	09	16	17:10	69.4	60.9	0
20200916T171500	2020	09	16	17:15	69.3	61.2	0
20200916T172000	2020	09	16	17:20	69.7	60.4	0
20200916T172500	2020	09	16	17:25	69.7	60.1	0
20200916T173000	2020	09	16	17:30	69.4	60.9	0
20200916T173500	2020	09	16	17:35	69.5	60.9	0
20200916T174000	2020	09	16	17:40	69.3	62.7	0
20200916T174500	2020	09	16	17:45	69.1	63.6	0
20200916T175000	2020	09	16	17:50	69	64.5	0
20200916T175500	2020	09	16	17:55	68.9	65	0
20200916T180000	2020	09	16	18:00	68.9	65.7	0
20200916T180500	2020	09	16	18:05	68.7	66.4	0
20200916T181000	2020	09	16	18:10	68.6	66.2	0
20200916T181500	2020	09	16	18:15	68.4	66.7	0
20200916T182000	2020	09	16	18:20	68.3	67.8	0
20200916T182500	2020	09	16	18:25	68.3	67.8	0
20200916T183000	2020	09	16	18:30	68	68.2	0
20200916T183500	2020	09	16	18:35	68	66.9	0
20200916T184000	2020	09	16	18:40	67.9	66.7	0
20200916T184500	2020	09	16	18:45	67.8	67.7	0
20200916T185000	2020	09	16	18:50	67.8	68.5	0
20200916T185500	2020	09	16	18:55	67.7	68.5	0
20200916T190000	2020	09	16	19:00	67.7	68.7	0
20200916T190500	2020	09	16	19:05	67.8	68.2	0
20200916T191000	2020	09	16	19:10	67.9	67.8	0
20200916T191500	2020	09	16	19:15	67.8	67.8	0
20200916T192000	2020	09	16	19:20	67.2	69	0
20200916T192500	2020	09	16	19:25	67.3	69.7	0
20200916T193000	2020	09	16	19:30	67.3	70.5	0
20200916T193500	2020	09	16	19:35	67.1	70.6	0
20200916T194000	2020	09	16	19:40	67.1	71.2	0
20200916T194500	2020	09	16	19:45	67.1	71.4	0
20200916T195000	2020	09	16	19:50	67.2	71.3	0
20200916T195500	2020	09	16	19:55	67.1	71.2	0
20200916T200000	2020	09	16	20:00	67	71.1	0
20200916T200500	2020	09	16	20:05	67.1	71.3	0
20200916T201000	2020	09	16	20:10	66.6	72.1	0
20200916T201500	2020	09	16	20:15	66.7	72.7	0
20200916T202000	2020	09	16	20:20	66.6	73.4	0
20200916T202500	2020	09	16	20:25	66.6	74.6	0
20200916T203000	2020	09	16	20:30	66.5	75.5	0
20200916T203500	2020	09	16	20:35	66.6	75.6	0
20200916T204000	2020	09	16	20:40	66.6	75.7	0
20200916T204500	2020	09	16	20:45	66.7	75.6	0
20200916T205000	2020	09	16	20:50	66.6	75.8	0
20200916T205500	2020	09	16	20:55	66.4	76.7	0
20200916T210000	2020	09	16	21:00	66.1	77.4	0
20200916T210500	2020	09	16	21:05	66.1	78.8	0
20200916T211000	2020	09	16	21:10	65.9	79.3	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200916T211500	2020	09	16	21:15	66.2	78.2	0
20200916T212000	2020	09	16	21:20	66.1	77.8	0
20200916T212500	2020	09	16	21:25	66.1	77.7	0
20200916T213000	2020	09	16	21:30	66.1	78	0
20200916T213500	2020	09	16	21:35	65.9	78.9	0
20200916T214000	2020	09	16	21:40	66	79.2	0
20200916T214500	2020	09	16	21:45	66	78	0
20200916T215000	2020	09	16	21:50	66	77.5	0
20200916T215500	2020	09	16	21:55	66.1	77.2	0
20200916T220000	2020	09	16	22:00	66.1	77.5	0
20200916T220500	2020	09	16	22:05	65.9	77.8	0
20200916T221000	2020	09	16	22:10	65.9	78	0
20200916T221500	2020	09	16	22:15	65.9	78.4	0
20200916T222000	2020	09	16	22:20	65.9	77.9	0
20200916T222500	2020	09	16	22:25	66	76.6	0
20200916T223000	2020	09	16	22:30	66.1	75.2	0
20200916T223500	2020	09	16	22:35	66.1	74	0
20200916T224000	2020	09	16	22:40	66	73.3	0
20200916T224500	2020	09	16	22:45	65.8	73	0
20200916T225000	2020	09	16	22:50	65.8	73	0
20200916T225500	2020	09	16	22:55	65.9	74.1	0
20200916T230000	2020	09	16	23:00	66.1	74.5	0
20200916T230500	2020	09	16	23:05	66.4	74.5	0
20200916T231000	2020	09	16	23:10	66.6	73.4	0
20200916T231500	2020	09	16	23:15	66.7	73.2	0
20200916T232000	2020	09	16	23:20	66.7	73.3	0
20200916T232500	2020	09	16	23:25	66.8	73.9	0
20200916T233000	2020	09	16	23:30	66.8	74.7	0
20200916T233500	2020	09	16	23:35	67	75	0
20200916T234000	2020	09	16	23:40	67.2	74.2	0
20200916T234500	2020	09	16	23:45	67.2	73.9	0
20200916T235000	2020	09	16	23:50	67.2	74	0
20200916T235500	2020	09	16	23:55	67.1	74.7	0
20200917T000000	2020	09	17	00:00	67.1	74.9	0
20200917T000500	2020	09	17	00:05	67.2	74.8	0
20200917T001000	2020	09	17	00:10	67.2	75.6	0
20200917T001500	2020	09	17	00:15	67.4	75.6	0
20200917T002000	2020	09	17	00:20	67.4	76.5	0
20200917T002500	2020	09	17	00:25	67.4	78.2	0
20200917T003000	2020	09	17	00:30	67.5	79.3	0
20200917T003500	2020	09	17	00:35	67.6	79.5	0
20200917T004000	2020	09	17	00:40	67.6	79.2	0
20200917T004500	2020	09	17	00:45	67.6	79.5	0
20200917T005000	2020	09	17	00:50	67.5	80.2	0
20200917T005500	2020	09	17	00:55	67.5	80.2	0
20200917T010000	2020	09	17	01:00	67.4	80.9	0
20200917T010500	2020	09	17	01:05	67.2	81.8	0
20200917T011000	2020	09	17	01:10	67.3	82.4	0
20200917T011500	2020	09	17	01:15	67.3	82.5	0
20200917T012000	2020	09	17	01:20	67.2	82.8	0
20200917T012500	2020	09	17	01:25	67.1	83.9	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200917T013000	2020	09	17	01:30	67.1	84.4	0
20200917T013500	2020	09	17	01:35	67.1	84.5	0
20200917T014000	2020	09	17	01:40	67.1	84.6	0
20200917T014500	2020	09	17	01:45	67.2	84.1	0
20200917T015000	2020	09	17	01:50	67.2	82.7	0
20200917T015500	2020	09	17	01:55	67.2	80.9	0
20200917T020000	2020	09	17	02:00	67.2	78.9	0
20200917T020500	2020	09	17	02:05	67.1	77.6	0
20200917T021000	2020	09	17	02:10	67.1	78	0
20200917T021500	2020	09	17	02:15	67	78.5	0
20200917T022000	2020	09	17	02:20	66.9	79	0
20200917T022500	2020	09	17	02:25	66.8	78.5	0
20200917T023000	2020	09	17	02:30	66.3	76.3	0
20200917T023500	2020	09	17	02:35	65.9	74.5	0
20200917T024000	2020	09	17	02:40	65.3	73.5	0
20200917T024500	2020	09	17	02:45	64.1	73.2	0
20200917T025000	2020	09	17	02:50	63.2	76	0
20200917T025500	2020	09	17	02:55	62.8	77.3	0
20200917T030000	2020	09	17	03:00	62.5	77.2	0
20200917T030500	2020	09	17	03:05	62.2	78.5	0
20200917T031000	2020	09	17	03:10	61.9	79.7	0
20200917T031500	2020	09	17	03:15	61.7	79.7	0
20200917T032000	2020	09	17	03:20	61.7	78	0
20200917T032500	2020	09	17	03:25	61.5	77.5	0
20200917T033000	2020	09	17	03:30	61.3	77.6	0
20200917T033500	2020	09	17	03:35	61.1	78.4	0
20200917T034000	2020	09	17	03:40	61.1	78.2	0
20200917T034500	2020	09	17	03:45	61.1	76.2	0
20200917T035000	2020	09	17	03:50	61	73.3	0
20200917T035500	2020	09	17	03:55	61	71.5	0
20200917T040000	2020	09	17	04:00	60.9	69.3	0
20200917T040500	2020	09	17	04:05	60.8	69.6	0
20200917T041000	2020	09	17	04:10	60.7	70.5	0
20200917T041500	2020	09	17	04:15	60.7	69.8	0
20200917T042000	2020	09	17	04:20	60.5	69.9	0
20200917T042500	2020	09	17	04:25	60.5	69.8	0
20200917T043000	2020	09	17	04:30	60.3	70.5	0
20200917T043500	2020	09	17	04:35	60.3	70.1	0
20200917T044000	2020	09	17	04:40	60.2	70.4	0
20200917T044500	2020	09	17	04:45	60.1	69.7	0
20200917T045000	2020	09	17	04:50	59.8	70.4	0
20200917T045500	2020	09	17	04:55	59.6	71.1	0
20200917T050000	2020	09	17	05:00	59.6	71.2	0
20200917T050500	2020	09	17	05:05	59.4	71.9	0
20200917T051000	2020	09	17	05:10	59.1	73	0
20200917T051500	2020	09	17	05:15	59.1	73.3	0
20200917T052000	2020	09	17	05:20	58.9	73.7	0
20200917T052500	2020	09	17	05:25	58.6	75.2	0
20200917T053000	2020	09	17	05:30	58.4	75.9	0
20200917T053500	2020	09	17	05:35	58.2	77.1	0
20200917T054000	2020	09	17	05:40	57.9	78.9	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200917T054500	2020	09	17	05:45	57.6	80.7	0
20200917T055000	2020	09	17	05:50	57.6	81.3	0
20200917T055500	2020	09	17	05:55	57.5	81.6	0
20200917T060000	2020	09	17	06:00	57.4	81.8	0
20200917T060500	2020	09	17	06:05	57.2	82.5	0
20200917T061000	2020	09	17	06:10	57.1	82.5	0
20200917T061500	2020	09	17	06:15	56.9	83.1	0
20200917T062000	2020	09	17	06:20	56.9	83.2	0
20200917T062500	2020	09	17	06:25	56.8	83.6	0
20200917T063000	2020	09	17	06:30	56.7	83.6	0
20200917T063500	2020	09	17	06:35	56.7	83.6	0
20200917T064000	2020	09	17	06:40	56.6	83.9	0
20200917T064500	2020	09	17	06:45	56.5	84	0
20200917T065000	2020	09	17	06:50	56.5	84	0
20200917T065500	2020	09	17	06:55	56.4	84.3	0
20200917T070000	2020	09	17	07:00	56.4	84.4	0
20200917T070500	2020	09	17	07:05	56.4	84.4	0
20200917T071000	2020	09	17	07:10	56.4	84.4	0
20200917T071500	2020	09	17	07:15	56.3	84.1	0
20200917T072000	2020	09	17	07:20	56.3	84.4	0
20200917T072500	2020	09	17	07:25	56.3	84.4	0
20200917T073000	2020	09	17	07:30	56.4	84	0
20200917T073500	2020	09	17	07:35	56.4	84.3	0
20200917T074000	2020	09	17	07:40	56.5	84.4	0
20200917T074500	2020	09	17	07:45	56.6	83.8	0
20200917T075000	2020	09	17	07:50	56.6	83.8	0
20200917T075500	2020	09	17	07:55	56.7	83.2	0
20200917T080000	2020	09	17	08:00	56.7	82.9	0
20200917T080500	2020	09	17	08:05	56.7	83.1	0
20200917T081000	2020	09	17	08:10	56.8	83.3	0
20200917T081500	2020	09	17	08:15	56.8	83.7	0
20200917T082000	2020	09	17	08:20	56.9	84	0
20200917T082500	2020	09	17	08:25	57.1	83.7	0
20200917T083000	2020	09	17	08:30	57.2	83.7	0
20200917T083500	2020	09	17	08:35	57.3	83.7	0
20200917T084000	2020	09	17	08:40	57.5	83.6	0
20200917T084500	2020	09	17	08:45	57.5	83.7	0
20200917T085000	2020	09	17	08:50	57.7	83.8	0
20200917T085500	2020	09	17	08:55	57.8	83	0
20200917T090000	2020	09	17	09:00	57.9	82.5	0
20200917T090500	2020	09	17	09:05	58.2	82.1	0
20200917T091000	2020	09	17	09:10	58.4	81.5	0
20200917T091500	2020	09	17	09:15	58.3	80.9	0
20200917T092000	2020	09	17	09:20	58	81.3	0
20200917T092500	2020	09	17	09:25	57.4	80.6	0
20200917T093000	2020	09	17	09:30	57.3	81.1	0
20200917T093500	2020	09	17	09:35	57.2	81.2	0
20200917T094000	2020	09	17	09:40	57.3	81.4	0
20200917T094500	2020	09	17	09:45	57.6	80.9	0
20200917T095000	2020	09	17	09:50	57.7	80	0
20200917T095500	2020	09	17	09:55	57.6	79.6	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200917T100000	2020	09	17	10:00	57.6	79.9	0
20200917T100500	2020	09	17	10:05	57.6	79.5	0
20200917T101000	2020	09	17	10:10	58	79.7	0
20200917T101500	2020	09	17	10:15	58.3	79.2	0
20200917T102000	2020	09	17	10:20	58.5	78.7	0
20200917T102500	2020	09	17	10:25	58.4	78.8	0
20200917T103000	2020	09	17	10:30	58.3	78.1	0
20200917T103500	2020	09	17	10:35	58.8	77.6	0
20200917T104000	2020	09	17	10:40	58.8	76.6	0
20200917T104500	2020	09	17	10:45	59	76.8	0
20200917T105000	2020	09	17	10:50	59.1	75.7	0
20200917T105500	2020	09	17	10:55	58.7	76.5	0
20200917T110000	2020	09	17	11:00	59.2	76.5	0
20200917T110500	2020	09	17	11:05	59.4	75.4	0
20200917T111000	2020	09	17	11:10	60	75.7	0
20200917T111500	2020	09	17	11:15	60.3	74	0
20200917T112000	2020	09	17	11:20	60.2	73.1	0
20200917T112500	2020	09	17	11:25	60.3	73.5	0
20200917T113000	2020	09	17	11:30	61	72.3	0
20200917T113500	2020	09	17	11:35	61.6	71.8	0
20200917T114000	2020	09	17	11:40	62.5	70.7	0
20200917T114500	2020	09	17	11:45	62.6	69.3	0
20200917T115000	2020	09	17	11:50	61.8	69.9	0
20200917T115500	2020	09	17	11:55	61.2	70.8	0
20200917T120000	2020	09	17	12:00	60.8	70.6	0
20200917T120500	2020	09	17	12:05	60.9	71.7	0
20200917T121000	2020	09	17	12:10	61.7	69.8	0
20200917T121500	2020	09	17	12:15	61.9	68.8	0
20200917T122000	2020	09	17	12:20	61.4	68.5	0
20200917T122500	2020	09	17	12:25	61.5	69.6	0
20200917T123000	2020	09	17	12:30	61.4	68.8	0
20200917T123500	2020	09	17	12:35	61.9	69.5	0
20200917T124000	2020	09	17	12:40	62.2	68.7	0
20200917T124500	2020	09	17	12:45	62.1	68.7	0
20200917T125000	2020	09	17	12:50	61.9	67.6	0
20200917T125500	2020	09	17	12:55	60.6	68.1	0
20200917T130000	2020	09	17	13:00	61.3	68.3	0
20200917T130500	2020	09	17	13:05	61.8	66.7	0
20200917T131000	2020	09	17	13:10	62.1	65.7	0
20200917T131500	2020	09	17	13:15	61.1	65.8	0
20200917T132000	2020	09	17	13:20	61.8	65.5	0
20200917T132500	2020	09	17	13:25	62.3	64.1	0
20200917T133000	2020	09	17	13:30	61.8	64.5	0
20200917T133500	2020	09	17	13:35	61.5	64.3	0
20200917T134000	2020	09	17	13:40	62.4	64.1	0
20200917T134500	2020	09	17	13:45	62.5	61.9	0
20200917T135000	2020	09	17	13:50	63	62.5	0
20200917T135500	2020	09	17	13:55	62.8	63.2	0
20200917T140000	2020	09	17	14:00	62.4	62.2	0
20200917T140500	2020	09	17	14:05	62	63.3	0
20200917T141000	2020	09	17	14:10	62.8	62.5	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200917T141500	2020	09	17	14:15	62.7	61.3	0
20200917T142000	2020	09	17	14:20	61.9	61.7	0
20200917T142500	2020	09	17	14:25	62.6	61.3	0
20200917T143000	2020	09	17	14:30	61.5	60.8	0
20200917T143500	2020	09	17	14:35	62.4	62.5	0
20200917T144000	2020	09	17	14:40	63.3	60.5	0
20200917T144500	2020	09	17	14:45	62.1	60.9	0
20200917T145000	2020	09	17	14:50	62.5	59.8	0
20200917T145500	2020	09	17	14:55	62.5	59.7	0
20200917T150000	2020	09	17	15:00	62.6	59.5	0
20200917T150500	2020	09	17	15:05	62.1	59.6	0
20200917T151000	2020	09	17	15:10	62.8	60.7	0
20200917T151500	2020	09	17	15:15	62.6	59.2	0
20200917T152000	2020	09	17	15:20	61.6	60.5	0
20200917T152500	2020	09	17	15:25	62.5	60.4	0
20200917T153000	2020	09	17	15:30	63.1	59.3	0
20200917T153500	2020	09	17	15:35	61.7	60.2	0
20200917T154000	2020	09	17	15:40	61.3	61.6	0
20200917T154500	2020	09	17	15:45	60.9	61.6	0
20200917T155000	2020	09	17	15:50	60.6	61.7	0
20200917T155500	2020	09	17	15:55	61.2	62.9	0
20200917T160000	2020	09	17	16:00	62.4	60.9	0
20200917T160500	2020	09	17	16:05	62.5	59.5	0
20200917T161000	2020	09	17	16:10	62	59.4	0
20200917T161500	2020	09	17	16:15	62.3	59.1	0
20200917T162000	2020	09	17	16:20	62.2	58.4	0
20200917T162500	2020	09	17	16:25	61.4	58.4	0
20200917T163000	2020	09	17	16:30	61.3	59.5	0
20200917T163500	2020	09	17	16:35	62.6	61.5	0
20200917T164000	2020	09	17	16:40	62.4	58.9	0
20200917T164500	2020	09	17	16:45	62.5	59.9	0
20200917T165000	2020	09	17	16:50	62	59.3	0
20200917T165500	2020	09	17	16:55	61.7	60.2	0
20200917T170000	2020	09	17	17:00	61.7	59.9	0
20200917T170500	2020	09	17	17:05	61.2	61	0
20200917T171000	2020	09	17	17:10	61.2	61.6	0
20200917T171500	2020	09	17	17:15	61.2	61	0
20200917T172000	2020	09	17	17:20	60.6	61.5	0
20200917T172500	2020	09	17	17:25	59.4	63.2	0
20200917T173000	2020	09	17	17:30	58.9	65.8	0
20200917T173500	2020	09	17	17:35	59.8	63.8	0
20200917T174000	2020	09	17	17:40	60.4	61	0
20200917T174500	2020	09	17	17:45	60.3	60.8	0
20200917T175000	2020	09	17	17:50	60.5	60.9	0
20200917T175500	2020	09	17	17:55	60.9	61.3	0
20200917T180000	2020	09	17	18:00	60.8	60.8	0
20200917T180500	2020	09	17	18:05	60.5	60.7	0
20200917T181000	2020	09	17	18:10	59.9	61.6	0
20200917T181500	2020	09	17	18:15	59	63.9	0
20200917T182000	2020	09	17	18:20	58.7	64.5	0
20200917T182500	2020	09	17	18:25	58.6	64.9	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200917T183000	2020	09	17	18:30	58.3	65.3	0
20200917T183500	2020	09	17	18:35	57.7	65.8	0
20200917T184000	2020	09	17	18:40	57.2	66.6	0
20200917T184500	2020	09	17	18:45	56.8	66.7	0
20200917T185000	2020	09	17	18:50	56.2	68.3	0
20200917T185500	2020	09	17	18:55	55.7	69.6	0
20200917T190000	2020	09	17	19:00	55.2	70.9	0
20200917T190500	2020	09	17	19:05	55	71.6	0
20200917T191000	2020	09	17	19:10	55.1	72.2	0
20200917T191500	2020	09	17	19:15	54.9	72.3	0
20200917T192000	2020	09	17	19:20	54.9	72.1	0
20200917T192500	2020	09	17	19:25	55	72.6	0
20200917T193000	2020	09	17	19:30	55.1	72.3	0
20200917T193500	2020	09	17	19:35	55.7	71.2	0
20200917T194000	2020	09	17	19:40	55.3	71.6	0
20200917T194500	2020	09	17	19:45	55.4	71.1	0
20200917T195000	2020	09	17	19:50	54.8	72	0
20200917T195500	2020	09	17	19:55	54.3	73.4	0
20200917T200000	2020	09	17	20:00	54	74.1	0
20200917T200500	2020	09	17	20:05	53.6	74.4	0
20200917T201000	2020	09	17	20:10	53.1	75.9	0
20200917T201500	2020	09	17	20:15	52.8	76.9	0
20200917T202000	2020	09	17	20:20	52.6	77	0
20200917T202500	2020	09	17	20:25	52.4	77.4	0
20200917T203000	2020	09	17	20:30	51.9	78.6	0
20200917T203500	2020	09	17	20:35	51.6	79.6	0
20200917T204000	2020	09	17	20:40	51.5	79.7	0
20200917T204500	2020	09	17	20:45	51.5	80	0
20200917T205000	2020	09	17	20:50	51.3	80.4	0
20200917T205500	2020	09	17	20:55	51.3	80	0
20200917T210000	2020	09	17	21:00	50.9	78.6	0
20200917T210500	2020	09	17	21:05	50.2	79	0
20200917T211000	2020	09	17	21:10	49.3	80.1	0
20200917T211500	2020	09	17	21:15	48.7	81.9	0
20200917T212000	2020	09	17	21:20	49.4	80.8	0
20200917T212500	2020	09	17	21:25	49.5	81.7	0
20200917T213000	2020	09	17	21:30	50	79.5	0
20200917T213500	2020	09	17	21:35	49.4	78.3	0
20200917T214000	2020	09	17	21:40	49.7	77.5	0
20200917T214500	2020	09	17	21:45	49.3	78	0
20200917T215000	2020	09	17	21:50	48.8	77.6	0
20200917T215500	2020	09	17	21:55	48.2	78.5	0
20200917T220000	2020	09	17	22:00	49.2	76.4	0
20200917T220500	2020	09	17	22:05	49.1	75.3	0
20200917T221000	2020	09	17	22:10	48.7	75.5	0
20200917T221500	2020	09	17	22:15	48.5	75.2	0
20200917T222000	2020	09	17	22:20	47.9	76.8	0
20200917T222500	2020	09	17	22:25	48	77.1	0
20200917T223000	2020	09	17	22:30	47.8	77.5	0
20200917T223500	2020	09	17	22:35	47.5	76.4	0
20200917T224000	2020	09	17	22:40	47.1	78.4	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200917T224500	2020	09	17	22:45	47.1	78.2	0
20200917T225000	2020	09	17	22:50	46.4	78.4	0
20200917T225500	2020	09	17	22:55	46.3	79.5	0
20200917T230000	2020	09	17	23:00	45.9	79	0
20200917T230500	2020	09	17	23:05	45.2	79.8	0
20200917T231000	2020	09	17	23:10	45.8	78.8	0
20200917T231500	2020	09	17	23:15	46	77.6	0
20200917T232000	2020	09	17	23:20	45.5	79.6	0
20200917T232500	2020	09	17	23:25	45.6	81.1	0
20200917T233000	2020	09	17	23:30	45.6	81.2	0
20200917T233500	2020	09	17	23:35	45.1	81.1	0
20200917T234000	2020	09	17	23:40	45.1	82.1	0
20200917T234500	2020	09	17	23:45	43.9	82	0
20200917T235000	2020	09	17	23:50	44.6	82.3	0
20200917T235500	2020	09	17	23:55	44.6	82.6	0
20200918T000000	2020	09	18	00:00	44.2	84.2	0
20200918T000500	2020	09	18	00:05	44.5	84.4	0
20200918T001000	2020	09	18	00:10	44.9	82.7	0
20200918T001500	2020	09	18	00:15	43.7	82.9	0
20200918T002000	2020	09	18	00:20	44.8	83.8	0
20200918T002500	2020	09	18	00:25	44.7	81.5	0
20200918T003000	2020	09	18	00:30	44.7	82.1	0
20200918T003500	2020	09	18	00:35	45.5	81.3	0
20200918T004000	2020	09	18	00:40	45.3	81.7	0
20200918T004500	2020	09	18	00:45	45.7	81.9	0
20200918T005000	2020	09	18	00:50	46.5	79.3	0
20200918T005500	2020	09	18	00:55	46.6	78.1	0
20200918T010000	2020	09	18	01:00	45.8	79.8	0
20200918T010500	2020	09	18	01:05	45.7	81.4	0
20200918T011000	2020	09	18	01:10	46.7	78.7	0
20200918T011500	2020	09	18	01:15	46.2	78	0
20200918T012000	2020	09	18	01:20	46	78.3	0
20200918T012500	2020	09	18	01:25	45.6	78.9	0
20200918T013000	2020	09	18	01:30	45.9	77.8	0
20200918T013500	2020	09	18	01:35	46	76.7	0
20200918T014000	2020	09	18	01:40	46.3	75.4	0
20200918T014500	2020	09	18	01:45	46.1	76.1	0
20200918T015000	2020	09	18	01:50	44.5	78.7	0
20200918T015500	2020	09	18	01:55	44.8	80.1	0
20200918T020000	2020	09	18	02:00	44.5	81.4	0
20200918T020500	2020	09	18	02:05	44.5	82.7	0
20200918T021000	2020	09	18	02:10	44.5	82.9	0
20200918T021500	2020	09	18	02:15	44	84	0
20200918T022000	2020	09	18	02:20	44	85.7	0
20200918T022500	2020	09	18	02:25	43.8	86.3	0
20200918T023000	2020	09	18	02:30	43.7	86.9	0
20200918T023500	2020	09	18	02:35	44.6	86.5	0
20200918T024000	2020	09	18	02:40	44.7	85.2	0
20200918T024500	2020	09	18	02:45	44.7	85.6	0
20200918T025000	2020	09	18	02:50	44.3	85.6	0
20200918T025500	2020	09	18	02:55	44.3	85.9	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200918T030000	2020	09	18	03:00	44.2	86.2	0
20200918T030500	2020	09	18	03:05	43.8	87.3	0
20200918T031000	2020	09	18	03:10	44.2	88.4	0
20200918T031500	2020	09	18	03:15	44.4	87.5	0
20200918T032000	2020	09	18	03:20	44.3	86.9	0
20200918T032500	2020	09	18	03:25	43.7	87.2	0
20200918T033000	2020	09	18	03:30	44	87.3	0
20200918T033500	2020	09	18	03:35	44	85.5	0
20200918T034000	2020	09	18	03:40	44.3	85.1	0
20200918T034500	2020	09	18	03:45	44.6	83.2	0
20200918T035000	2020	09	18	03:50	44.4	83.1	0
20200918T035500	2020	09	18	03:55	44.1	83.5	0
20200918T040000	2020	09	18	04:00	44.1	83	0
20200918T040500	2020	09	18	04:05	44	82.9	0
20200918T041000	2020	09	18	04:10	43.8	83	0
20200918T041500	2020	09	18	04:15	43.5	83.8	0
20200918T042000	2020	09	18	04:20	43.2	84.4	0
20200918T042500	2020	09	18	04:25	43	84.8	0
20200918T043000	2020	09	18	04:30	42.8	86	0
20200918T043500	2020	09	18	04:35	42.9	86.8	0
20200918T044000	2020	09	18	04:40	43.5	85.1	0
20200918T044500	2020	09	18	04:45	43.5	85.3	0
20200918T045000	2020	09	18	04:50	43	85.7	0
20200918T045500	2020	09	18	04:55	42.7	86.9	0
20200918T050000	2020	09	18	05:00	42.7	87.2	0
20200918T050500	2020	09	18	05:05	42.2	87.8	0
20200918T051000	2020	09	18	05:10	42	89.1	0
20200918T051500	2020	09	18	05:15	42	90.2	0
20200918T052000	2020	09	18	05:20	42.4	90	0
20200918T052500	2020	09	18	05:25	42.9	89.6	0
20200918T053000	2020	09	18	05:30	43.4	88.4	0
20200918T053500	2020	09	18	05:35	43.7	87.4	0
20200918T054000	2020	09	18	05:40	44.2	86	0
20200918T054500	2020	09	18	05:45	44.4	83.8	0
20200918T055000	2020	09	18	05:50	44.6	82.7	0
20200918T055500	2020	09	18	05:55	44.4	82.2	0
20200918T060000	2020	09	18	06:00	44.1	82.7	0
20200918T060500	2020	09	18	06:05	44.6	82.7	0
20200918T061000	2020	09	18	06:10	44.9	81.6	0
20200918T061500	2020	09	18	06:15	44.9	80.8	0
20200918T062000	2020	09	18	06:20	45.1	79.6	0
20200918T062500	2020	09	18	06:25	45	78.9	0
20200918T063000	2020	09	18	06:30	44.8	77.7	0
20200918T063500	2020	09	18	06:35	44.3	78.7	0
20200918T064000	2020	09	18	06:40	44	78.6	0
20200918T064500	2020	09	18	06:45	44.2	76.8	0
20200918T065000	2020	09	18	06:50	44.4	74.2	0
20200918T065500	2020	09	18	06:55	44.1	74.2	0
20200918T070000	2020	09	18	07:00	44.1	74.2	0
20200918T070500	2020	09	18	07:05	43.7	75.5	0
20200918T071000	2020	09	18	07:10	43.7	75.7	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200918T071500	2020	09	18	07:15	43.8	75.1	0
20200918T072000	2020	09	18	07:20	42.9	77.4	0
20200918T072500	2020	09	18	07:25	42.8	78.1	0
20200918T073000	2020	09	18	07:30	42.9	77.1	0
20200918T073500	2020	09	18	07:35	43.1	77.1	0
20200918T074000	2020	09	18	07:40	43.6	76.6	0
20200918T074500	2020	09	18	07:45	44	75.7	0
20200918T075000	2020	09	18	07:50	44.6	73.1	0
20200918T075500	2020	09	18	07:55	45.1	69.5	0
20200918T080000	2020	09	18	08:00	45.5	69.5	0
20200918T080500	2020	09	18	08:05	46	68.3	0
20200918T081000	2020	09	18	08:10	46.3	67.8	0
20200918T081500	2020	09	18	08:15	46.8	68.8	0
20200918T082000	2020	09	18	08:20	46.9	70.1	0
20200918T082500	2020	09	18	08:25	47.2	70.7	0
20200918T083000	2020	09	18	08:30	47.7	71	0
20200918T083500	2020	09	18	08:35	48.1	69.9	0
20200918T084000	2020	09	18	08:40	48.3	69.8	0
20200918T084500	2020	09	18	08:45	48.9	70	0
20200918T085000	2020	09	18	08:50	49.1	67.5	0
20200918T085500	2020	09	18	08:55	49.5	65.6	0
20200918T090000	2020	09	18	09:00	49.7	63.9	0
20200918T090500	2020	09	18	09:05	50.4	67.1	0
20200918T091000	2020	09	18	09:10	50.2	63.6	0
20200918T091500	2020	09	18	09:15	50.4	64.2	0
20200918T092000	2020	09	18	09:20	50.8	63.4	0
20200918T092500	2020	09	18	09:25	50.6	61.9	0
20200918T093000	2020	09	18	09:30	50.5	59.8	0
20200918T093500	2020	09	18	09:35	50.6	58	0
20200918T094000	2020	09	18	09:40	50.8	57.2	0
20200918T094500	2020	09	18	09:45	51	56.6	0
20200918T095000	2020	09	18	09:50	51.1	56.5	0
20200918T095500	2020	09	18	09:55	51.4	55.8	0
20200918T100000	2020	09	18	10:00	51.5	54.6	0
20200918T100500	2020	09	18	10:05	51.7	54.2	0
20200918T101000	2020	09	18	10:10	51.9	53.6	0
20200918T101500	2020	09	18	10:15	52.2	53.2	0
20200918T102000	2020	09	18	10:20	52.5	51.2	0
20200918T102500	2020	09	18	10:25	52.4	49.4	0
20200918T103000	2020	09	18	10:30	52.9	49.3	0
20200918T103500	2020	09	18	10:35	53.3	50.7	0
20200918T104000	2020	09	18	10:40	53.2	50.2	0
20200918T104500	2020	09	18	10:45	53.5	49.3	0
20200918T105000	2020	09	18	10:50	53.4	47.8	0
20200918T105500	2020	09	18	10:55	53.6	48.4	0
20200918T110000	2020	09	18	11:00	53.7	47.4	0
20200918T110500	2020	09	18	11:05	53.3	48.2	0
20200918T111000	2020	09	18	11:10	53.8	48.6	0
20200918T111500	2020	09	18	11:15	54.1	48.4	0
20200918T112000	2020	09	18	11:20	54.2	48.2	0
20200918T112500	2020	09	18	11:25	54.3	48.3	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200918T113000	2020	09	18	11:30	54.4	48	0
20200918T113500	2020	09	18	11:35	54.8	49.2	0
20200918T114000	2020	09	18	11:40	55.2	46.5	0
20200918T114500	2020	09	18	11:45	55.1	46	0
20200918T115000	2020	09	18	11:50	55.6	46.9	0
20200918T115500	2020	09	18	11:55	55.7	44	0
20200918T120000	2020	09	18	12:00	56	43.1	0
20200918T120500	2020	09	18	12:05	55.8	42.6	0
20200918T121000	2020	09	18	12:10	56.1	41.3	0
20200918T121500	2020	09	18	12:15	56.4	40.6	0
20200918T122000	2020	09	18	12:20	56.8	40.5	0
20200918T122500	2020	09	18	12:25	56.7	40.1	0
20200918T123000	2020	09	18	12:30	56.9	39.7	0
20200918T123500	2020	09	18	12:35	56.6	38.3	0
20200918T124000	2020	09	18	12:40	56.5	39.4	0
20200918T124500	2020	09	18	12:45	56.8	40	0
20200918T125000	2020	09	18	12:50	57	38.4	0
20200918T125500	2020	09	18	12:55	56.9	38.5	0
20200918T130000	2020	09	18	13:00	56.2	37.9	0
20200918T130500	2020	09	18	13:05	57.7	37.8	0
20200918T131000	2020	09	18	13:10	57.4	36.8	0
20200918T131500	2020	09	18	13:15	57.7	37.1	0
20200918T132000	2020	09	18	13:20	57.6	37.4	0
20200918T132500	2020	09	18	13:25	57.4	37	0
20200918T133000	2020	09	18	13:30	57	36.9	0
20200918T133500	2020	09	18	13:35	58.1	38.8	0
20200918T134000	2020	09	18	13:40	58.1	35.6	0
20200918T134500	2020	09	18	13:45	57.2	35.7	0
20200918T135000	2020	09	18	13:50	58.4	37.4	0
20200918T135500	2020	09	18	13:55	58.2	37.5	0
20200918T140000	2020	09	18	14:00	57.9	36.4	0
20200918T140500	2020	09	18	14:05	57.4	36.7	0
20200918T141000	2020	09	18	14:10	57.9	37.8	0
20200918T141500	2020	09	18	14:15	58.6	38.1	0
20200918T142000	2020	09	18	14:20	58.4	37.1	0
20200918T142500	2020	09	18	14:25	58.5	37.3	0
20200918T143000	2020	09	18	14:30	58.7	37.9	0
20200918T143500	2020	09	18	14:35	58.3	37.9	0
20200918T144000	2020	09	18	14:40	57.5	38	0
20200918T144500	2020	09	18	14:45	57.5	37.3	0
20200918T145000	2020	09	18	14:50	58.4	37	0
20200918T145500	2020	09	18	14:55	58.7	37.4	0
20200918T150000	2020	09	18	15:00	59	37.5	0
20200918T150500	2020	09	18	15:05	59	37.5	0
20200918T151000	2020	09	18	15:10	59.1	37	0
20200918T151500	2020	09	18	15:15	58.9	38.6	0
20200918T152000	2020	09	18	15:20	57.5	37.3	0
20200918T152500	2020	09	18	15:25	55.4	39.1	0
20200918T153000	2020	09	18	15:30	55.6	40.9	0
20200918T153500	2020	09	18	15:35	58.1	39.2	0
20200918T154000	2020	09	18	15:40	57.9	36.1	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200918T154500	2020	09	18	15:45	57.9	36.9	0
20200918T155000	2020	09	18	15:50	56.8	37.1	0
20200918T155500	2020	09	18	15:55	55.5	39.7	0
20200918T160000	2020	09	18	16:00	55.4	40.5	0
20200918T160500	2020	09	18	16:05	56.3	39.9	0
20200918T161000	2020	09	18	16:10	55.8	39.4	0
20200918T161500	2020	09	18	16:15	55.9	39.8	0
20200918T162000	2020	09	18	16:20	56.6	40	0
20200918T162500	2020	09	18	16:25	56.1	36	0
20200918T163000	2020	09	18	16:30	55.1	39.1	0
20200918T163500	2020	09	18	16:35	55.6	40.4	0
20200918T164000	2020	09	18	16:40	57.2	39.8	0
20200918T164500	2020	09	18	16:45	56.9	38.9	0
20200918T165000	2020	09	18	16:50	57.4	39.2	0
20200918T165500	2020	09	18	16:55	57.4	37.9	0
20200918T170000	2020	09	18	17:00	56.9	38.1	0
20200918T170500	2020	09	18	17:05	56.7	35.5	0
20200918T171000	2020	09	18	17:10	56.7	37.2	0
20200918T171500	2020	09	18	17:15	56.3	37	0
20200918T172000	2020	09	18	17:20	55.8	37.5	0
20200918T172500	2020	09	18	17:25	55.5	38.1	0
20200918T173000	2020	09	18	17:30	54	40.1	0
20200918T173500	2020	09	18	17:35	54.8	38.7	0
20200918T174000	2020	09	18	17:40	55.1	38.1	0
20200918T174500	2020	09	18	17:45	55.1	36.9	0
20200918T175000	2020	09	18	17:50	55.2	38.4	0
20200918T175500	2020	09	18	17:55	55.1	38.1	0
20200918T180000	2020	09	18	18:00	54.8	36.5	0
20200918T180500	2020	09	18	18:05	54.6	36.9	0
20200918T181000	2020	09	18	18:10	54.6	36.4	0
20200918T181500	2020	09	18	18:15	54.4	35.6	0
20200918T182000	2020	09	18	18:20	54	37.4	0
20200918T182500	2020	09	18	18:25	53.7	37.5	0
20200918T183000	2020	09	18	18:30	53.1	39.1	0
20200918T183500	2020	09	18	18:35	52.7	38.8	0
20200918T184000	2020	09	18	18:40	52.8	37.2	0
20200918T184500	2020	09	18	18:45	52.7	38.4	0
20200918T185000	2020	09	18	18:50	52.5	38.8	0
20200918T185500	2020	09	18	18:55	52.7	39	0
20200918T190000	2020	09	18	19:00	52.5	39.3	0
20200918T190500	2020	09	18	19:05	52	39.5	0
20200918T191000	2020	09	18	19:10	51.8	39	0
20200918T191500	2020	09	18	19:15	50.9	42.7	0
20200918T192000	2020	09	18	19:20	50.2	45.2	0
20200918T192500	2020	09	18	19:25	50.2	46.1	0
20200918T193000	2020	09	18	19:30	50	47.1	0
20200918T193500	2020	09	18	19:35	49.9	48	0
20200918T194000	2020	09	18	19:40	50	47.7	0
20200918T194500	2020	09	18	19:45	49.7	48.3	0
20200918T195000	2020	09	18	19:50	50.7	44.5	0
20200918T195500	2020	09	18	19:55	50.5	45.6	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200918T200000	2020	09	18	20:00	50.3	46.8	0
20200918T200500	2020	09	18	20:05	50.6	44.6	0
20200918T201000	2020	09	18	20:10	50.6	43.5	0
20200918T201500	2020	09	18	20:15	50.2	44.9	0
20200918T202000	2020	09	18	20:20	50.2	45.8	0
20200918T202500	2020	09	18	20:25	50.2	46	0
20200918T203000	2020	09	18	20:30	49.6	48.1	0
20200918T203500	2020	09	18	20:35	49.4	49.9	0
20200918T204000	2020	09	18	20:40	49.9	50.2	0
20200918T204500	2020	09	18	20:45	48.5	53.4	0
20200918T205000	2020	09	18	20:50	48.5	53.9	0
20200918T205500	2020	09	18	20:55	48.9	51	0
20200918T210000	2020	09	18	21:00	49.6	47.7	0
20200918T210500	2020	09	18	21:05	49.2	49.7	0
20200918T211000	2020	09	18	21:10	48.9	51.3	0
20200918T211500	2020	09	18	21:15	48.9	51.9	0
20200918T212000	2020	09	18	21:20	49.2	50.5	0
20200918T212500	2020	09	18	21:25	48.7	51.8	0
20200918T213000	2020	09	18	21:30	48.2	54.4	0
20200918T213500	2020	09	18	21:35	48.2	54.3	0
20200918T214000	2020	09	18	21:40	48.8	51	0
20200918T214500	2020	09	18	21:45	48.5	51.9	0
20200918T215000	2020	09	18	21:50	48.3	53.5	0
20200918T215500	2020	09	18	21:55	48.3	53.3	0
20200918T220000	2020	09	18	22:00	48.7	51.9	0
20200918T220500	2020	09	18	22:05	48.4	51.5	0
20200918T221000	2020	09	18	22:10	48.5	50.4	0
20200918T221500	2020	09	18	22:15	48.3	51.2	0
20200918T222000	2020	09	18	22:20	48.5	50.6	0
20200918T222500	2020	09	18	22:25	48.4	51.2	0
20200918T223000	2020	09	18	22:30	47.9	52.5	0
20200918T223500	2020	09	18	22:35	48	52.3	0
20200918T224000	2020	09	18	22:40	47.8	53.1	0
20200918T224500	2020	09	18	22:45	47.1	54.2	0
20200918T225000	2020	09	18	22:50	47.3	53.8	0
20200918T225500	2020	09	18	22:55	46.6	55.5	0
20200918T230000	2020	09	18	23:00	46.9	55.9	0
20200918T230500	2020	09	18	23:05	47.2	54.4	0
20200918T231000	2020	09	18	23:10	47.4	52.7	0
20200918T231500	2020	09	18	23:15	46.9	54.4	0
20200918T232000	2020	09	18	23:20	46.8	55.9	0
20200918T232500	2020	09	18	23:25	46.8	56.3	0
20200918T233000	2020	09	18	23:30	46.5	57.8	0
20200918T233500	2020	09	18	23:35	46.4	58.3	0
20200918T234000	2020	09	18	23:40	46.2	59.2	0
20200918T234500	2020	09	18	23:45	46	59	0
20200918T235000	2020	09	18	23:50	46.4	57.6	0
20200918T235500	2020	09	18	23:55	46	58.8	0
20200919T000000	2020	09	19	00:00	45.7	59.9	0
20200919T000500	2020	09	19	00:05	46.5	58.6	0
20200919T001000	2020	09	19	00:10	47	57.4	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200919T001500	2020	09	19	00:15	46.8	59.3	0
20200919T002000	2020	09	19	00:20	46.8	59.1	0
20200919T002500	2020	09	19	00:25	46.7	59.8	0
20200919T003000	2020	09	19	00:30	46.8	59.7	0
20200919T003500	2020	09	19	00:35	46.6	58.8	0
20200919T004000	2020	09	19	00:40	46.6	58.2	0
20200919T004500	2020	09	19	00:45	46.4	58.3	0
20200919T005000	2020	09	19	00:50	46.3	58.9	0
20200919T005500	2020	09	19	00:55	46	60.7	0
20200919T010000	2020	09	19	01:00	45.9	61.2	0
20200919T010500	2020	09	19	01:05	45.6	62.1	0
20200919T011000	2020	09	19	01:10	45	63.4	0
20200919T011500	2020	09	19	01:15	44.4	65.7	0
20200919T012000	2020	09	19	01:20	43.7	67.9	0
20200919T012500	2020	09	19	01:25	44.3	67.6	0
20200919T013000	2020	09	19	01:30	44.8	65.6	0
20200919T013500	2020	09	19	01:35	44.4	66.4	0
20200919T014000	2020	09	19	01:40	43.3	69	0
20200919T014500	2020	09	19	01:45	41.7	70.2	0
20200919T015000	2020	09	19	01:50	42.2	72.5	0
20200919T015500	2020	09	19	01:55	42.4	72.1	0
20200919T020000	2020	09	19	02:00	43.1	70.6	0
20200919T020500	2020	09	19	02:05	43.1	70	0
20200919T021000	2020	09	19	02:10	43.4	69.5	0
20200919T021500	2020	09	19	02:15	43.7	68.2	0
20200919T022000	2020	09	19	02:20	43.2	69.1	0
20200919T022500	2020	09	19	02:25	42.6	70.9	0
20200919T023000	2020	09	19	02:30	42	73.3	0
20200919T023500	2020	09	19	02:35	42	74.9	0
20200919T024000	2020	09	19	02:40	42.4	74	0
20200919T024500	2020	09	19	02:45	42.4	74	0
20200919T025000	2020	09	19	02:50	42.1	74.2	0
20200919T025500	2020	09	19	02:55	42.2	74.8	0
20200919T030000	2020	09	19	03:00	43.4	71.4	0
20200919T030500	2020	09	19	03:05	43.8	69	0
20200919T031000	2020	09	19	03:10	44	68.1	0
20200919T031500	2020	09	19	03:15	44.2	68.1	0
20200919T032000	2020	09	19	03:20	44.2	67.3	0
20200919T032500	2020	09	19	03:25	44.2	67.3	0
20200919T033000	2020	09	19	03:30	44.3	66.9	0
20200919T033500	2020	09	19	03:35	44.3	66.9	0
20200919T034000	2020	09	19	03:40	44.1	67.7	0
20200919T034500	2020	09	19	03:45	43.8	68	0
20200919T035000	2020	09	19	03:50	43.7	69.3	0
20200919T035500	2020	09	19	03:55	43.6	68.9	0
20200919T040000	2020	09	19	04:00	41.8	72.2	0
20200919T040500	2020	09	19	04:05	40.9	76.9	0
20200919T041000	2020	09	19	04:10	40.5	78.2	0
20200919T041500	2020	09	19	04:15	39.7	80	0
20200919T042000	2020	09	19	04:20	40	80.8	0
20200919T042500	2020	09	19	04:25	40.4	79.7	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200919T043000	2020	09	19	04:30	40.5	79.6	0
20200919T043500	2020	09	19	04:35	40.6	79.5	0
20200919T044000	2020	09	19	04:40	40.6	79.1	0
20200919T044500	2020	09	19	04:45	40.3	78.7	0
20200919T045000	2020	09	19	04:50	37.9	80.2	0
20200919T045500	2020	09	19	04:55	37	83	0
20200919T050000	2020	09	19	05:00	36.7	84.3	0
20200919T050500	2020	09	19	05:05	37.7	85.6	0
20200919T051000	2020	09	19	05:10	38.2	84.3	0
20200919T051500	2020	09	19	05:15	37.6	83.7	0
20200919T052000	2020	09	19	05:20	38	84	0
20200919T052500	2020	09	19	05:25	38.4	83.3	0
20200919T053000	2020	09	19	05:30	38.4	82.2	0
20200919T053500	2020	09	19	05:35	37.7	83.2	0
20200919T054000	2020	09	19	05:40	38	84.2	0
20200919T054500	2020	09	19	05:45	38.5	83.1	0
20200919T055000	2020	09	19	05:50	38.8	82.3	0
20200919T055500	2020	09	19	05:55	38.2	82.8	0
20200919T060000	2020	09	19	06:00	39	83.2	0
20200919T060500	2020	09	19	06:05	39.8	81.9	0
20200919T061000	2020	09	19	06:10	40.1	81.1	0
20200919T061500	2020	09	19	06:15	40.2	80.8	0
20200919T062000	2020	09	19	06:20	40.1	81.3	0
20200919T062500	2020	09	19	06:25	39.9	81.7	0
20200919T063000	2020	09	19	06:30	39.1	82	0
20200919T063500	2020	09	19	06:35	38.2	84.2	0
20200919T064000	2020	09	19	06:40	39.1	83.5	0
20200919T064500	2020	09	19	06:45	38.6	85.1	0
20200919T065000	2020	09	19	06:50	38.7	85.1	0
20200919T065500	2020	09	19	06:55	38.9	84.1	0
20200919T070000	2020	09	19	07:00	39.1	83.6	0
20200919T070500	2020	09	19	07:05	39.5	82.4	0
20200919T071000	2020	09	19	07:10	39.8	82.4	0
20200919T071500	2020	09	19	07:15	40.4	81.6	0
20200919T072000	2020	09	19	07:20	40.6	80.8	0
20200919T072500	2020	09	19	07:25	40.6	80.4	0
20200919T073000	2020	09	19	07:30	40.9	79.6	0
20200919T073500	2020	09	19	07:35	41.8	76.8	0
20200919T074000	2020	09	19	07:40	42.1	75.7	0
20200919T074500	2020	09	19	07:45	42.4	75.4	0
20200919T075000	2020	09	19	07:50	42.5	75.6	0
20200919T075500	2020	09	19	07:55	42.8	75.6	0
20200919T080000	2020	09	19	08:00	43.1	75.6	0
20200919T080500	2020	09	19	08:05	43.5	76.2	0
20200919T081000	2020	09	19	08:10	43.9	76	0
20200919T081500	2020	09	19	08:15	44	75.6	0
20200919T082000	2020	09	19	08:20	44.2	75.7	0
20200919T082500	2020	09	19	08:25	44.4	75.2	0
20200919T083000	2020	09	19	08:30	44.6	75.3	0
20200919T083500	2020	09	19	08:35	44.8	74.2	0
20200919T084000	2020	09	19	08:40	45	73.8	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200919T084500	2020	09	19	08:45	45	72.3	0
20200919T085000	2020	09	19	08:50	45.1	70.9	0
20200919T085500	2020	09	19	08:55	45.4	71.3	0
20200919T090000	2020	09	19	09:00	45.7	71	0
20200919T090500	2020	09	19	09:05	46.1	71.1	0
20200919T091000	2020	09	19	09:10	46.6	71.9	0
20200919T091500	2020	09	19	09:15	46.7	70.7	0
20200919T092000	2020	09	19	09:20	46.8	70.5	0
20200919T092500	2020	09	19	09:25	47	70	0
20200919T093000	2020	09	19	09:30	47.2	68	0
20200919T093500	2020	09	19	09:35	47.7	65.4	0
20200919T094000	2020	09	19	09:40	47.6	65.7	0
20200919T094500	2020	09	19	09:45	47.7	67.2	0
20200919T095000	2020	09	19	09:50	48	66.9	0
20200919T095500	2020	09	19	09:55	47.8	68.4	0
20200919T100000	2020	09	19	10:00	48.5	66.8	0
20200919T100500	2020	09	19	10:05	48.5	65.5	0
20200919T101000	2020	09	19	10:10	49.3	62.4	0
20200919T101500	2020	09	19	10:15	48.6	62.4	0
20200919T102000	2020	09	19	10:20	49.1	61.7	0
20200919T102500	2020	09	19	10:25	49.2	59.7	0
20200919T103000	2020	09	19	10:30	49.7	60.3	0
20200919T103500	2020	09	19	10:35	49.3	58.2	0
20200919T104000	2020	09	19	10:40	49.7	56.3	0
20200919T104500	2020	09	19	10:45	49.4	53.7	0
20200919T105000	2020	09	19	10:50	49.7	54.9	0
20200919T105500	2020	09	19	10:55	50.2	54.3	0
20200919T110000	2020	09	19	11:00	49.8	55.3	0
20200919T110500	2020	09	19	11:05	50.2	54.8	0
20200919T111000	2020	09	19	11:10	50.2	54.5	0
20200919T111500	2020	09	19	11:15	51.2	53.7	0
20200919T112000	2020	09	19	11:20	51.4	52	0
20200919T112500	2020	09	19	11:25	51.9	52.4	0
20200919T113000	2020	09	19	11:30	51.9	51.2	0
20200919T113500	2020	09	19	11:35	51.9	51.2	0
20200919T114000	2020	09	19	11:40	52	48.5	0
20200919T114500	2020	09	19	11:45	52	46.6	0
20200919T115000	2020	09	19	11:50	51.8	42.6	0
20200919T115500	2020	09	19	11:55	52.1	45.2	0
20200919T120000	2020	09	19	12:00	52.3	42.6	0
20200919T120500	2020	09	19	12:05	52	42.2	0
20200919T121000	2020	09	19	12:10	51.7	44.5	0
20200919T121500	2020	09	19	12:15	51.8	45.3	0
20200919T122000	2020	09	19	12:20	51.4	45.7	0
20200919T122500	2020	09	19	12:25	51.8	48.1	0
20200919T123000	2020	09	19	12:30	52.3	48.7	0
20200919T123500	2020	09	19	12:35	52.5	46.9	0
20200919T124000	2020	09	19	12:40	52.3	47.4	0
20200919T124500	2020	09	19	12:45	50.9	48	0
20200919T125000	2020	09	19	12:50	50.7	50.7	0
20200919T125500	2020	09	19	12:55	52.2	49.4	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200919T130000	2020	09	19	13:00	53.5	48.2	0
20200919T130500	2020	09	19	13:05	53.6	46.1	0
20200919T131000	2020	09	19	13:10	52.4	48.3	0
20200919T131500	2020	09	19	13:15	51.8	49.1	0
20200919T132000	2020	09	19	13:20	52.7	48	0
20200919T132500	2020	09	19	13:25	52.7	46.5	0
20200919T133000	2020	09	19	13:30	53.9	47.7	0
20200919T133500	2020	09	19	13:35	52.8	46.3	0
20200919T134000	2020	09	19	13:40	52.7	47.7	0
20200919T134500	2020	09	19	13:45	53.2	46.9	0
20200919T135000	2020	09	19	13:50	52.7	45.1	0
20200919T135500	2020	09	19	13:55	52.7	45.9	0
20200919T140000	2020	09	19	14:00	51.9	46	0
20200919T140500	2020	09	19	14:05	52.6	48.8	0
20200919T141000	2020	09	19	14:10	52.4	46.9	0
20200919T141500	2020	09	19	14:15	53.1	45.5	0
20200919T142000	2020	09	19	14:20	52.9	44.9	0
20200919T142500	2020	09	19	14:25	53.7	44.6	0
20200919T143000	2020	09	19	14:30	53.9	43.5	0
20200919T143500	2020	09	19	14:35	53.8	43.9	0
20200919T144000	2020	09	19	14:40	53.5	43.3	0
20200919T144500	2020	09	19	14:45	54.4	43.4	0
20200919T145000	2020	09	19	14:50	54	42.7	0
20200919T145500	2020	09	19	14:55	53.7	42.2	0
20200919T150000	2020	09	19	15:00	54.7	42.7	0
20200919T150500	2020	09	19	15:05	54	42.2	0
20200919T151000	2020	09	19	15:10	54.4	42.4	0
20200919T151500	2020	09	19	15:15	55.1	42.2	0
20200919T152000	2020	09	19	15:20	54.8	41.5	0
20200919T152500	2020	09	19	15:25	54.5	41.7	0
20200919T153000	2020	09	19	15:30	54.4	40.9	0
20200919T153500	2020	09	19	15:35	55	41.6	0
20200919T154000	2020	09	19	15:40	55.1	41.3	0
20200919T154500	2020	09	19	15:45	54.6	40.5	0
20200919T155000	2020	09	19	15:50	54.9	41.4	0
20200919T155500	2020	09	19	15:55	54.8	41.7	0
20200919T160000	2020	09	19	16:00	55.9	42.3	0
20200919T160500	2020	09	19	16:05	54.8	40.9	0
20200919T161000	2020	09	19	16:10	54.8	40.1	0
20200919T161500	2020	09	19	16:15	55.3	41.2	0
20200919T162000	2020	09	19	16:20	55.2	41.4	0
20200919T162500	2020	09	19	16:25	55.1	40.2	0
20200919T163000	2020	09	19	16:30	55.3	41	0
20200919T163500	2020	09	19	16:35	55.1	41.3	0
20200919T164000	2020	09	19	16:40	55	41.1	0
20200919T164500	2020	09	19	16:45	55.2	41.6	0
20200919T165000	2020	09	19	16:50	54.7	41.3	0
20200919T165500	2020	09	19	16:55	54.8	40.8	0
20200919T170000	2020	09	19	17:00	54.4	40.5	0
20200919T170500	2020	09	19	17:05	54.8	41.5	0
20200919T171000	2020	09	19	17:10	55.1	41.5	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200919T171500	2020	09	19	17:15	54.6	41.3	0
20200919T172000	2020	09	19	17:20	54.7	41.3	0
20200919T172500	2020	09	19	17:25	54.4	41	0
20200919T173000	2020	09	19	17:30	54.6	42.2	0
20200919T173500	2020	09	19	17:35	54.6	41.8	0
20200919T174000	2020	09	19	17:40	54.4	41.9	0
20200919T174500	2020	09	19	17:45	54.4	41.5	0
20200919T175000	2020	09	19	17:50	54.4	41.3	0
20200919T175500	2020	09	19	17:55	54.1	42.1	0
20200919T180000	2020	09	19	18:00	53.9	43.5	0
20200919T180500	2020	09	19	18:05	53.7	44	0
20200919T181000	2020	09	19	18:10	53.7	42.4	0
20200919T181500	2020	09	19	18:15	53.4	41.6	0
20200919T182000	2020	09	19	18:20	53.1	43.3	0
20200919T182500	2020	09	19	18:25	52.6	43.7	0
20200919T183000	2020	09	19	18:30	51.2	47.1	0
20200919T183500	2020	09	19	18:35	51.1	48.6	0
20200919T184000	2020	09	19	18:40	51	46.2	0
20200919T184500	2020	09	19	18:45	50.5	46.7	0
20200919T185000	2020	09	19	18:50	49.6	48.5	0
20200919T185500	2020	09	19	18:55	49.6	48.5	0
20200919T190000	2020	09	19	19:00	47.9	53	0
20200919T190500	2020	09	19	19:05	47.1	56.1	0
20200919T191000	2020	09	19	19:10	46.4	56.6	0
20200919T191500	2020	09	19	19:15	44.1	62.4	0
20200919T192000	2020	09	19	19:20	44.7	63.2	0
20200919T192500	2020	09	19	19:25	43.1	65.9	0
20200919T193000	2020	09	19	19:30	42	70.4	0
20200919T193500	2020	09	19	19:35	42.7	71.4	0
20200919T194000	2020	09	19	19:40	43.5	70.5	0
20200919T194500	2020	09	19	19:45	43.5	70	0
20200919T195000	2020	09	19	19:50	42.7	71.5	0
20200919T195500	2020	09	19	19:55	43.1	73.5	0
20200919T200000	2020	09	19	20:00	42.9	75.7	0
20200919T200500	2020	09	19	20:05	43	76.1	0
20200919T201000	2020	09	19	20:10	43.3	72.7	0
20200919T201500	2020	09	19	20:15	43.1	74.4	0
20200919T202000	2020	09	19	20:20	41.9	84.4	0
20200919T202500	2020	09	19	20:25	43.1	84.8	0
20200919T203000	2020	09	19	20:30	42.5	76.8	0
20200919T203500	2020	09	19	20:35	42.6	81.6	0
20200919T204000	2020	09	19	20:40	43.1	80.8	0
20200919T204500	2020	09	19	20:45	44.5	81	0
20200919T205000	2020	09	19	20:50	43.8	79.4	0
20200919T205500	2020	09	19	20:55	43.1	79.8	0
20200919T210000	2020	09	19	21:00	43	81.6	0
20200919T210500	2020	09	19	21:05	43.6	83.1	0
20200919T211000	2020	09	19	21:10	43.4	79.8	0
20200919T211500	2020	09	19	21:15	43.5	80.2	0
20200919T212000	2020	09	19	21:20	44.4	80.9	0
20200919T212500	2020	09	19	21:25	43.6	78.1	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200919T213000	2020	09	19	21:30	43.6	77.7	0
20200919T213500	2020	09	19	21:35	43.1	77.5	0
20200919T214000	2020	09	19	21:40	43.3	77.1	0
20200919T214500	2020	09	19	21:45	43.1	78.3	0
20200919T215000	2020	09	19	21:50	42.5	79.8	0
20200919T215500	2020	09	19	21:55	42.7	79.5	0
20200919T220000	2020	09	19	22:00	43.8	74.3	0
20200919T220500	2020	09	19	22:05	43.4	69.8	0
20200919T221000	2020	09	19	22:10	42.2	72.9	0
20200919T221500	2020	09	19	22:15	42.4	76.2	0
20200919T222000	2020	09	19	22:20	42.9	78.4	0
20200919T222500	2020	09	19	22:25	45.5	65.9	0
20200919T223000	2020	09	19	22:30	45.3	65.9	0
20200919T223500	2020	09	19	22:35	42	74.9	0
20200919T224000	2020	09	19	22:40	41.5	78.4	0
20200919T224500	2020	09	19	22:45	41.6	80.6	0
20200919T225000	2020	09	19	22:50	41.8	79.2	0
20200919T225500	2020	09	19	22:55	41.7	81.1	0
20200919T230000	2020	09	19	23:00	42.5	81.3	0
20200919T230500	2020	09	19	23:05	43.1	79.8	0
20200919T231000	2020	09	19	23:10	43.4	79.5	0
20200919T231500	2020	09	19	23:15	41.9	82	0
20200919T232000	2020	09	19	23:20	42.3	82	0
20200919T232500	2020	09	19	23:25	42.9	80.9	0
20200919T233000	2020	09	19	23:30	42.5	81.9	0
20200919T233500	2020	09	19	23:35	41.7	83.4	0
20200919T234000	2020	09	19	23:40	41	85.1	0
20200919T234500	2020	09	19	23:45	41.4	85.4	0
20200919T235000	2020	09	19	23:50	40.9	84.3	0
20200919T235500	2020	09	19	23:55	41.4	82.7	0
20200920T000000	2020	09	20	00:00	40.8	83.5	0
20200920T000500	2020	09	20	00:05	41.7	84.4	0
20200920T001000	2020	09	20	00:10	41.9	83.1	0
20200920T001500	2020	09	20	00:15	41.6	82	0
20200920T002000	2020	09	20	00:20	40.3	82.6	0
20200920T002500	2020	09	20	00:25	40.6	84.8	0
20200920T003000	2020	09	20	00:30	40.6	86.2	0
20200920T003500	2020	09	20	00:35	39.5	87.2	0
20200920T004000	2020	09	20	00:40	39.7	86.5	0
20200920T004500	2020	09	20	00:45	40	85.2	0
20200920T005000	2020	09	20	00:50	39.3	84.3	0
20200920T005500	2020	09	20	00:55	39.4	84.6	0
20200920T010000	2020	09	20	01:00	38.5	84.1	0
20200920T010500	2020	09	20	01:05	38.2	85.1	0
20200920T011000	2020	09	20	01:10	39.1	85	0
20200920T011500	2020	09	20	01:15	38.8	84.9	0
20200920T012000	2020	09	20	01:20	37.8	86.2	0
20200920T012500	2020	09	20	01:25	37.1	89.8	0
20200920T013000	2020	09	20	01:30	38.2	88.8	0
20200920T013500	2020	09	20	01:35	38.3	89.9	0
20200920T014000	2020	09	20	01:40	38	90.4	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200920T014500	2020	09	20	01:45	37.9	90.7	0
20200920T015000	2020	09	20	01:50	38.2	90.8	0
20200920T015500	2020	09	20	01:55	38.3	89.4	0
20200920T020000	2020	09	20	02:00	37.4	89.4	0
20200920T020500	2020	09	20	02:05	37.1	90.2	0
20200920T021000	2020	09	20	02:10	35.9	89.9	0
20200920T021500	2020	09	20	02:15	35.4	92	0
20200920T022000	2020	09	20	02:20	36.1	93.3	0
20200920T022500	2020	09	20	02:25	36.2	93.7	0
20200920T023000	2020	09	20	02:30	36	93.7	0
20200920T023500	2020	09	20	02:35	35.9	94.1	0
20200920T024000	2020	09	20	02:40	36.2	94.6	0
20200920T024500	2020	09	20	02:45	36.9	95	0
20200920T025000	2020	09	20	02:50	36.3	94	0
20200920T025500	2020	09	20	02:55	34.8	93.5	0
20200920T030000	2020	09	20	03:00	35.5	94.9	0
20200920T030500	2020	09	20	03:05	37	94.9	0
20200920T031000	2020	09	20	03:10	37.1	92.4	0
20200920T031500	2020	09	20	03:15	36.8	90.2	0
20200920T032000	2020	09	20	03:20	36.3	89.5	0
20200920T032500	2020	09	20	03:25	35.5	90.6	0
20200920T033000	2020	09	20	03:30	35.5	92.4	0
20200920T033500	2020	09	20	03:35	38.6	90.9	0
20200920T034000	2020	09	20	03:40	38.2	83.5	0
20200920T034500	2020	09	20	03:45	36.2	84.8	0
20200920T035000	2020	09	20	03:50	36.3	86.6	0
20200920T035500	2020	09	20	03:55	36	88.5	0
20200920T040000	2020	09	20	04:00	35.6	91.9	0
20200920T040500	2020	09	20	04:05	36.1	92.2	0
20200920T041000	2020	09	20	04:10	35.6	91	0
20200920T041500	2020	09	20	04:15	37.7	90	0
20200920T042000	2020	09	20	04:20	38.1	84.3	0
20200920T042500	2020	09	20	04:25	35.9	86.7	0
20200920T043000	2020	09	20	04:30	37.9	89	0
20200920T043500	2020	09	20	04:35	38.8	85.3	0
20200920T044000	2020	09	20	04:40	39.6	82	0
20200920T044500	2020	09	20	04:45	38.1	81.2	0
20200920T045000	2020	09	20	04:50	35.9	85.9	0
20200920T045500	2020	09	20	04:55	36.1	89.9	0
20200920T050000	2020	09	20	05:00	36.2	91.3	0
20200920T050500	2020	09	20	05:05	37	90.3	0
20200920T051000	2020	09	20	05:10	37.6	87.6	0
20200920T051500	2020	09	20	05:15	36.7	86.7	0
20200920T052000	2020	09	20	05:20	36.6	87.8	0
20200920T052500	2020	09	20	05:25	35.6	88.6	0
20200920T053000	2020	09	20	05:30	35.3	89.9	0
20200920T053500	2020	09	20	05:35	36.5	89.4	0
20200920T054000	2020	09	20	05:40	36.4	88.1	0
20200920T054500	2020	09	20	05:45	36.1	87.6	0
20200920T055000	2020	09	20	05:50	34.7	88.2	0
20200920T055500	2020	09	20	05:55	35	89.7	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200920T060000	2020	09	20	06:00	35.8	88.9	0
20200920T060500	2020	09	20	06:05	35.5	87.1	0
20200920T061000	2020	09	20	06:10	35.6	88.3	0
20200920T061500	2020	09	20	06:15	37	90.8	0
20200920T062000	2020	09	20	06:20	39.4	91.3	0
20200920T062500	2020	09	20	06:25	40.1	86.6	0
20200920T063000	2020	09	20	06:30	40.1	85.6	0
20200920T063500	2020	09	20	06:35	39.4	86.6	0
20200920T064000	2020	09	20	06:40	38.8	88.1	0
20200920T064500	2020	09	20	06:45	38.1	89.1	0
20200920T065000	2020	09	20	06:50	37.8	91	0
20200920T065500	2020	09	20	06:55	38.3	93.5	0
20200920T070000	2020	09	20	07:00	40.2	94.8	0
20200920T070500	2020	09	20	07:05	41.3	92.2	0
20200920T071000	2020	09	20	07:10	42	89.5	0
20200920T071500	2020	09	20	07:15	42.5	87.7	0
20200920T072000	2020	09	20	07:20	42.8	87.7	0
20200920T072500	2020	09	20	07:25	42.8	87.8	0
20200920T073000	2020	09	20	07:30	42.7	88.6	0
20200920T073500	2020	09	20	07:35	42.9	89.6	0
20200920T074000	2020	09	20	07:40	42.8	90.7	0
20200920T074500	2020	09	20	07:45	42.4	92.9	0
20200920T075000	2020	09	20	07:50	42.4	93.5	0
20200920T075500	2020	09	20	07:55	42.8	92.7	0
20200920T080000	2020	09	20	08:00	43.5	93.9	0
20200920T080500	2020	09	20	08:05	44.1	93.6	0
20200920T081000	2020	09	20	08:10	45.2	93.5	0
20200920T081500	2020	09	20	08:15	46.5	90.7	0
20200920T082000	2020	09	20	08:20	47.2	86.4	0
20200920T082500	2020	09	20	08:25	48	85.1	0
20200920T083000	2020	09	20	08:30	48.6	84.2	0
20200920T083500	2020	09	20	08:35	49.1	80.8	0
20200920T084000	2020	09	20	08:40	49.6	79.2	0
20200920T084500	2020	09	20	08:45	49.8	76.2	0
20200920T085000	2020	09	20	08:50	50.1	74	0
20200920T085500	2020	09	20	08:55	50.6	72.6	0
20200920T090000	2020	09	20	09:00	51.1	71.2	0
20200920T090500	2020	09	20	09:05	51.8	71.4	0
20200920T091000	2020	09	20	09:10	52.3	68.3	0
20200920T091500	2020	09	20	09:15	53.2	66	0
20200920T092000	2020	09	20	09:20	53.7	58.2	0
20200920T092500	2020	09	20	09:25	54.1	54.5	0
20200920T093000	2020	09	20	09:30	54.6	53.3	0
20200920T093500	2020	09	20	09:35	54.6	50.2	0
20200920T094000	2020	09	20	09:40	54.9	52.1	0
20200920T094500	2020	09	20	09:45	55.7	51.9	0
20200920T095000	2020	09	20	09:50	55.4	49.9	0
20200920T095500	2020	09	20	09:55	55.9	50.1	0
20200920T100000	2020	09	20	10:00	56.1	50.4	0
20200920T100500	2020	09	20	10:05	55.9	50.4	0
20200920T101000	2020	09	20	10:10	56.6	50.6	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200920T101500	2020	09	20	10:15	56.3	50.1	0
20200920T102000	2020	09	20	10:20	56.6	49.2	0
20200920T102500	2020	09	20	10:25	56.9	48.3	0
20200920T103000	2020	09	20	10:30	57.1	49.5	0
20200920T103500	2020	09	20	10:35	56.9	49	0
20200920T104000	2020	09	20	10:40	56.5	49	0
20200920T104500	2020	09	20	10:45	57.7	48.3	0
20200920T105000	2020	09	20	10:50	57.2	48.3	0
20200920T105500	2020	09	20	10:55	57.5	48.1	0
20200920T110000	2020	09	20	11:00	57.5	48.4	0
20200920T110500	2020	09	20	11:05	58.4	49.3	0
20200920T111000	2020	09	20	11:10	57.9	49.6	0
20200920T111500	2020	09	20	11:15	58.9	49.2	0
20200920T112000	2020	09	20	11:20	57.6	49.5	0
20200920T112500	2020	09	20	11:25	57.1	50.5	0
20200920T113000	2020	09	20	11:30	57.6	51.7	0
20200920T113500	2020	09	20	11:35	57.3	51.4	0
20200920T114000	2020	09	20	11:40	56.7	53.9	0
20200920T114500	2020	09	20	11:45	55.9	53.9	0
20200920T115000	2020	09	20	11:50	55.5	55.2	0
20200920T115500	2020	09	20	11:55	55.4	55.1	0
20200920T120000	2020	09	20	12:00	55.4	55.4	0
20200920T120500	2020	09	20	12:05	55.5	55.8	0
20200920T121000	2020	09	20	12:10	56.1	56.3	0
20200920T121500	2020	09	20	12:15	57.7	55.4	0
20200920T122000	2020	09	20	12:20	58.7	53.8	0
20200920T122500	2020	09	20	12:25	58.4	53.7	0
20200920T123000	2020	09	20	12:30	59.1	54.8	0
20200920T123500	2020	09	20	12:35	59.2	53.4	0
20200920T124000	2020	09	20	12:40	58.5	54.8	0
20200920T124500	2020	09	20	12:45	59.6	54	0
20200920T125000	2020	09	20	12:50	59.3	52.9	0
20200920T125500	2020	09	20	12:55	58.7	52.3	0
20200920T130000	2020	09	20	13:00	58.6	54.3	0
20200920T130500	2020	09	20	13:05	58.4	50.8	0
20200920T131000	2020	09	20	13:10	57.3	56.4	0
20200920T131500	2020	09	20	13:15	57.3	56	0
20200920T132000	2020	09	20	13:20	58.6	55.2	0
20200920T132500	2020	09	20	13:25	59	54.3	0
20200920T133000	2020	09	20	13:30	59.1	46.3	0
20200920T133500	2020	09	20	13:35	60.2	47.2	0
20200920T134000	2020	09	20	13:40	60.3	47.7	0
20200920T134500	2020	09	20	13:45	59.3	45.5	0
20200920T135000	2020	09	20	13:50	59.9	45.7	0
20200920T135500	2020	09	20	13:55	60.7	46.1	0
20200920T140000	2020	09	20	14:00	60.1	47.9	0
20200920T140500	2020	09	20	14:05	59.5	49	0
20200920T141000	2020	09	20	14:10	58.1	51.6	0
20200920T141500	2020	09	20	14:15	59.9	50.4	0
20200920T142000	2020	09	20	14:20	59.5	46.2	0
20200920T142500	2020	09	20	14:25	60.1	46.1	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200920T143000	2020	09	20	14:30	59.7	46.3	0
20200920T143500	2020	09	20	14:35	60.3	46.9	0
20200920T144000	2020	09	20	14:40	60.2	45.2	0
20200920T144500	2020	09	20	14:45	60.6	46.1	0
20200920T145000	2020	09	20	14:50	60.5	45.3	0
20200920T145500	2020	09	20	14:55	60.1	45.5	0
20200920T150000	2020	09	20	15:00	60.2	46.6	0
20200920T150500	2020	09	20	15:05	60.4	45.7	0
20200920T151000	2020	09	20	15:10	60.3	45.4	0
20200920T151500	2020	09	20	15:15	59.8	45.9	0
20200920T152000	2020	09	20	15:20	60.4	46.8	0
20200920T152500	2020	09	20	15:25	59.9	46.6	0
20200920T153000	2020	09	20	15:30	60	47.4	0
20200920T153500	2020	09	20	15:35	59.7	47.1	0
20200920T154000	2020	09	20	15:40	60.1	47.7	0
20200920T154500	2020	09	20	15:45	60.4	46.8	0
20200920T155000	2020	09	20	15:50	60	42.3	0
20200920T155500	2020	09	20	15:55	59.9	46.2	0
20200920T160000	2020	09	20	16:00	59.6	47	0
20200920T160500	2020	09	20	16:05	59.9	47.4	0
20200920T161000	2020	09	20	16:10	59.4	47.3	0
20200920T161500	2020	09	20	16:15	59.5	47.8	0
20200920T162000	2020	09	20	16:20	59.5	49.6	0
20200920T162500	2020	09	20	16:25	59.5	49.2	0
20200920T163000	2020	09	20	16:30	59.4	49.8	0
20200920T163500	2020	09	20	16:35	59	50.8	0
20200920T164000	2020	09	20	16:40	59.1	50.8	0
20200920T164500	2020	09	20	16:45	59.3	49.4	0
20200920T165000	2020	09	20	16:50	59.2	49.8	0
20200920T165500	2020	09	20	16:55	59	50.4	0
20200920T170000	2020	09	20	17:00	59.3	50.6	0
20200920T170500	2020	09	20	17:05	59.1	50.1	0
20200920T171000	2020	09	20	17:10	58.7	50.6	0
20200920T171500	2020	09	20	17:15	58.7	50.7	0
20200920T172000	2020	09	20	17:20	58.5	50.1	0
20200920T172500	2020	09	20	17:25	58.7	50.9	0
20200920T173000	2020	09	20	17:30	58.7	49.8	0
20200920T173500	2020	09	20	17:35	58.6	49.5	0
20200920T174000	2020	09	20	17:40	58.5	50.5	0
20200920T174500	2020	09	20	17:45	58.2	50	0
20200920T175000	2020	09	20	17:50	58.1	51	0
20200920T175500	2020	09	20	17:55	58	52	0
20200920T180000	2020	09	20	18:00	57.9	51.5	0
20200920T180500	2020	09	20	18:05	57.6	53.4	0
20200920T181000	2020	09	20	18:10	57.8	50.4	0
20200920T181500	2020	09	20	18:15	57.6	50.4	0
20200920T182000	2020	09	20	18:20	57.3	52	0
20200920T182500	2020	09	20	18:25	56.8	53.2	0
20200920T183000	2020	09	20	18:30	56.1	55.7	0
20200920T183500	2020	09	20	18:35	55.2	58	0
20200920T184000	2020	09	20	18:40	55.6	57.7	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200920T184500	2020	09	20	18:45	55.2	58.3	0
20200920T185000	2020	09	20	18:50	54.4	60.7	0
20200920T185500	2020	09	20	18:55	54.2	60.8	0
20200920T190000	2020	09	20	19:00	53.2	63.4	0
20200920T190500	2020	09	20	19:05	52.7	65.2	0
20200920T191000	2020	09	20	19:10	52.2	66.6	0
20200920T191500	2020	09	20	19:15	48.6	74.6	0
20200920T192000	2020	09	20	19:20	48.9	81.7	0
20200920T192500	2020	09	20	19:25	50.1	81	0
20200920T193000	2020	09	20	19:30	48.9	75.8	0
20200920T193500	2020	09	20	19:35	47.4	77.3	0
20200920T194000	2020	09	20	19:40	46.2	78.8	0
20200920T194500	2020	09	20	19:45	45.6	83.4	0
20200920T195000	2020	09	20	19:50	47.5	82.5	0
20200920T195500	2020	09	20	19:55	44.8	78.8	0
20200920T200000	2020	09	20	20:00	44.3	82	0
20200920T200500	2020	09	20	20:05	43	84.9	0
20200920T201000	2020	09	20	20:10	42.6	86.4	0
20200920T201500	2020	09	20	20:15	42.3	89	0
20200920T202000	2020	09	20	20:20	42.9	89.6	0
20200920T202500	2020	09	20	20:25	42.9	89.5	0
20200920T203000	2020	09	20	20:30	41.7	89.6	0
20200920T203500	2020	09	20	20:35	41.8	90.2	0
20200920T204000	2020	09	20	20:40	42.1	90.6	0
20200920T204500	2020	09	20	20:45	42.6	89.9	0
20200920T205000	2020	09	20	20:50	42.4	89.9	0
20200920T205500	2020	09	20	20:55	41.4	86.7	0
20200920T210000	2020	09	20	21:00	38.2	87.3	0
20200920T210500	2020	09	20	21:05	38	92.7	0
20200920T211000	2020	09	20	21:10	39.2	94.7	0
20200920T211500	2020	09	20	21:15	41.6	94.6	0
20200920T212000	2020	09	20	21:20	41.7	92.3	0
20200920T212500	2020	09	20	21:25	40.7	91.4	0
20200920T213000	2020	09	20	21:30	40.4	92.1	0
20200920T213500	2020	09	20	21:35	40.7	92.8	0
20200920T214000	2020	09	20	21:40	38.7	91.2	0
20200920T214500	2020	09	20	21:45	39.4	93.5	0
20200920T215000	2020	09	20	21:50	40	95.1	0
20200920T215500	2020	09	20	21:55	39	94.5	0
20200920T220000	2020	09	20	22:00	39.5	94.1	0
20200920T220500	2020	09	20	22:05	39.4	92.7	0
20200920T221000	2020	09	20	22:10	38	91	0
20200920T221500	2020	09	20	22:15	37.6	92.2	0
20200920T222000	2020	09	20	22:20	38.4	93.9	0
20200920T222500	2020	09	20	22:25	38.4	95	0
20200920T223000	2020	09	20	22:30	38.1	95.5	0
20200920T223500	2020	09	20	22:35	39.3	95.7	0
20200920T224000	2020	09	20	22:40	37.2	94.2	0
20200920T224500	2020	09	20	22:45	37.5	96	0
20200920T225000	2020	09	20	22:50	37.2	96	0
20200920T225500	2020	09	20	22:55	37	96.3	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200920T230000	2020	09	20	23:00	38.6	97.1	0
20200920T230500	2020	09	20	23:05	39.3	97.1	0
20200920T231000	2020	09	20	23:10	37.7	95	0
20200920T231500	2020	09	20	23:15	38.7	95.4	0
20200920T232000	2020	09	20	23:20	38.1	95.7	0
20200920T232500	2020	09	20	23:25	38.3	95.5	0
20200920T233000	2020	09	20	23:30	39	95.8	0
20200920T233500	2020	09	20	23:35	38.8	93.9	0
20200920T234000	2020	09	20	23:40	38	91.6	0
20200920T234500	2020	09	20	23:45	42.1	85.4	0
20200920T235000	2020	09	20	23:50	43.9	74.3	0
20200920T235500	2020	09	20	23:55	44.4	70.2	0
20200921T000000	2020	09	21	00:00	44	69.9	0
20200921T000500	2020	09	21	00:05	44.2	70.9	0
20200921T001000	2020	09	21	00:10	43.6	71.3	0
20200921T001500	2020	09	21	00:15	43	72.5	0
20200921T002000	2020	09	21	00:20	41	77.2	0
20200921T002500	2020	09	21	00:25	41.5	76.8	0
20200921T003000	2020	09	21	00:30	39.3	79.7	0
20200921T003500	2020	09	21	00:35	37.1	81.9	0
20200921T004000	2020	09	21	00:40	37.6	85.8	0
20200921T004500	2020	09	21	00:45	38.1	86.3	0
20200921T005000	2020	09	21	00:50	37.3	85.9	0
20200921T005500	2020	09	21	00:55	39.3	86.4	0
20200921T010000	2020	09	21	01:00	41.3	79.7	0
20200921T010500	2020	09	21	01:05	40.7	77.8	0
20200921T011000	2020	09	21	01:10	37.9	80.4	0
20200921T011500	2020	09	21	01:15	36.9	84.3	0
20200921T012000	2020	09	21	01:20	37.9	86.9	0
20200921T012500	2020	09	21	01:25	38.2	85.2	0
20200921T013000	2020	09	21	01:30	39.4	83.8	0
20200921T013500	2020	09	21	01:35	40.8	78.8	0
20200921T014000	2020	09	21	01:40	40.8	77.7	0
20200921T014500	2020	09	21	01:45	40.4	78.2	0
20200921T015000	2020	09	21	01:50	40.3	78.8	0
20200921T015500	2020	09	21	01:55	40.6	77.9	0
20200921T020000	2020	09	21	02:00	40.5	78.1	0
20200921T020500	2020	09	21	02:05	40.3	78.3	0
20200921T021000	2020	09	21	02:10	39.7	78.7	0
20200921T021500	2020	09	21	02:15	39.5	79.9	0
20200921T022000	2020	09	21	02:20	39.8	80.2	0
20200921T022500	2020	09	21	02:25	39.5	79.5	0
20200921T023000	2020	09	21	02:30	40.6	78.8	0
20200921T023500	2020	09	21	02:35	40.8	76.8	0
20200921T024000	2020	09	21	02:40	40.9	76.5	0
20200921T024500	2020	09	21	02:45	40.1	75.5	0
20200921T025000	2020	09	21	02:50	40.1	77	0
20200921T025500	2020	09	21	02:55	41	76.5	0
20200921T030000	2020	09	21	03:00	39.5	77.5	0
20200921T030500	2020	09	21	03:05	38.4	81.7	0
20200921T031000	2020	09	21	03:10	38.3	82.7	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200921T031500	2020	09	21	03:15	38.1	83	0
20200921T032000	2020	09	21	03:20	38	83.9	0
20200921T032500	2020	09	21	03:25	37.7	84.3	0
20200921T033000	2020	09	21	03:30	37.1	85.5	0
20200921T033500	2020	09	21	03:35	37.1	86.3	0
20200921T034000	2020	09	21	03:40	37.1	86.4	0
20200921T034500	2020	09	21	03:45	37.4	85.9	0
20200921T035000	2020	09	21	03:50	37.4	86	0
20200921T035500	2020	09	21	03:55	36.6	85.6	0
20200921T040000	2020	09	21	04:00	35.1	87.7	0
20200921T040500	2020	09	21	04:05	35.1	89.5	0
20200921T041000	2020	09	21	04:10	35.1	89.3	0
20200921T041500	2020	09	21	04:15	35.1	89.3	0
20200921T042000	2020	09	21	04:20	35.1	90.1	0
20200921T042500	2020	09	21	04:25	35.1	89.9	0
20200921T043000	2020	09	21	04:30	33.6	89.4	0
20200921T043500	2020	09	21	04:35	33.1	90.9	0
20200921T044000	2020	09	21	04:40	33.1	91.9	0
20200921T044500	2020	09	21	04:45	33.7	92.8	0
20200921T045000	2020	09	21	04:50	34.5	93.1	0
20200921T045500	2020	09	21	04:55	35	91.9	0
20200921T050000	2020	09	21	05:00	34.6	90.3	0
20200921T050500	2020	09	21	05:05	32.9	89.7	0
20200921T051000	2020	09	21	05:10	34.2	92.4	0
20200921T051500	2020	09	21	05:15	34.2	92.1	0
20200921T052000	2020	09	21	05:20	32.4	90	0
20200921T052500	2020	09	21	05:25	32.1	92.6	0
20200921T053000	2020	09	21	05:30	32	93.4	0
20200921T053500	2020	09	21	05:35	34.2	94.5	0
20200921T054000	2020	09	21	05:40	33.5	91.4	0
20200921T054500	2020	09	21	05:45	32.6	91.1	0
20200921T055000	2020	09	21	05:50	32.9	91	0
20200921T055500	2020	09	21	05:55	32.7	89.2	0
20200921T060000	2020	09	21	06:00	32.6	90.1	0
20200921T060500	2020	09	21	06:05	32.2	90.8	0
20200921T061000	2020	09	21	06:10	32.2	92	0
20200921T061500	2020	09	21	06:15	32.3	92.4	0
20200921T062000	2020	09	21	06:20	32.5	92.6	0
20200921T062500	2020	09	21	06:25	31.3	92.2	0
20200921T063000	2020	09	21	06:30	31.9	94.5	0
20200921T063500	2020	09	21	06:35	32.5	94.2	0
20200921T064000	2020	09	21	06:40	32.7	94.5	0
20200921T064500	2020	09	21	06:45	32.8	94.3	0
20200921T065000	2020	09	21	06:50	33.1	94.1	0
20200921T065500	2020	09	21	06:55	33	93.9	0
20200921T070000	2020	09	21	07:00	32.8	93.4	0
20200921T070500	2020	09	21	07:05	33.5	94.7	0
20200921T071000	2020	09	21	07:10	33.8	94.4	0
20200921T071500	2020	09	21	07:15	34.8	93.4	0
20200921T072000	2020	09	21	07:20	35.2	90.1	0
20200921T072500	2020	09	21	07:25	33.6	88.4	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200921T073000	2020	09	21	07:30	33.7	90.5	0
20200921T073500	2020	09	21	07:35	34.1	89.7	0
20200921T074000	2020	09	21	07:40	35	89.9	0
20200921T074500	2020	09	21	07:45	36.4	89	0
20200921T075000	2020	09	21	07:50	37.3	86.1	0
20200921T075500	2020	09	21	07:55	37.1	84.5	0
20200921T080000	2020	09	21	08:00	38.1	85.2	0
20200921T080500	2020	09	21	08:05	39.1	85.3	0
20200921T081000	2020	09	21	08:10	40.1	84.9	0
20200921T081500	2020	09	21	08:15	41.3	82.4	0
20200921T082000	2020	09	21	08:20	42.2	79.7	0
20200921T082500	2020	09	21	08:25	42.8	79	0
20200921T083000	2020	09	21	08:30	43.7	79.1	0
20200921T083500	2020	09	21	08:35	44.8	78.3	0
20200921T084000	2020	09	21	08:40	45.7	75.5	0
20200921T084500	2020	09	21	08:45	46.8	76.1	0
20200921T085000	2020	09	21	08:50	47.8	74.4	0
20200921T085500	2020	09	21	08:55	48.7	73.3	0
20200921T090000	2020	09	21	09:00	49.2	72	0
20200921T090500	2020	09	21	09:05	49.8	72.3	0
20200921T091000	2020	09	21	09:10	50.6	70.5	0
20200921T091500	2020	09	21	09:15	51	70	0
20200921T092000	2020	09	21	09:20	52	70.3	0
20200921T092500	2020	09	21	09:25	53.2	69.1	0
20200921T093000	2020	09	21	09:30	53.6	67.1	0
20200921T093500	2020	09	21	09:35	54.4	64	0
20200921T094000	2020	09	21	09:40	54.4	64.1	0
20200921T094500	2020	09	21	09:45	54.9	64	0
20200921T095000	2020	09	21	09:50	55.5	63.7	0
20200921T095500	2020	09	21	09:55	55.5	63.2	0
20200921T100000	2020	09	21	10:00	56.1	62.5	0
20200921T100500	2020	09	21	10:05	55.9	60.1	0
20200921T101000	2020	09	21	10:10	55.8	60.7	0
20200921T101500	2020	09	21	10:15	56.7	60.2	0
20200921T102000	2020	09	21	10:20	56.5	60.2	0
20200921T102500	2020	09	21	10:25	56.8	55.7	0
20200921T103000	2020	09	21	10:30	57.2	55.4	0
20200921T103500	2020	09	21	10:35	57	56.3	0
20200921T104000	2020	09	21	10:40	57.5	55.4	0
20200921T104500	2020	09	21	10:45	57.7	55	0
20200921T105000	2020	09	21	10:50	57.9	52.9	0
20200921T105500	2020	09	21	10:55	58.4	51.3	0
20200921T110000	2020	09	21	11:00	58.8	50.5	0
20200921T110500	2020	09	21	11:05	58.8	48.4	0
20200921T111000	2020	09	21	11:10	58.5	48.9	0
20200921T111500	2020	09	21	11:15	59.4	50	0
20200921T112000	2020	09	21	11:20	59.9	48.5	0
20200921T112500	2020	09	21	11:25	60.1	48.5	0
20200921T113000	2020	09	21	11:30	59	51.7	0
20200921T113500	2020	09	21	11:35	59.1	52.1	0
20200921T114000	2020	09	21	11:40	59.7	51.9	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200921T114500	2020	09	21	11:45	59.2	53.1	0
20200921T115000	2020	09	21	11:50	59.6	54.3	0
20200921T115500	2020	09	21	11:55	59.4	52.3	0
20200921T120000	2020	09	21	12:00	59.2	53.7	0
20200921T120500	2020	09	21	12:05	59.9	54.4	0
20200921T121000	2020	09	21	12:10	59	54	0
20200921T121500	2020	09	21	12:15	59.7	53.4	0
20200921T122000	2020	09	21	12:20	60.2	53.2	0
20200921T122500	2020	09	21	12:25	60.2	52.2	0
20200921T123000	2020	09	21	12:30	60.3	49.5	0
20200921T123500	2020	09	21	12:35	61.1	44.4	0
20200921T124000	2020	09	21	12:40	60.5	48.6	0
20200921T124500	2020	09	21	12:45	61	44.5	0
20200921T125000	2020	09	21	12:50	61.5	41.4	0
20200921T125500	2020	09	21	12:55	61.1	41.5	0
20200921T130000	2020	09	21	13:00	61.5	40.9	0
20200921T130500	2020	09	21	13:05	62.4	38.4	0
20200921T131000	2020	09	21	13:10	61.9	36	0
20200921T131500	2020	09	21	13:15	62.4	35.3	0
20200921T132000	2020	09	21	13:20	62.1	38	0
20200921T132500	2020	09	21	13:25	62.1	41.5	0
20200921T133000	2020	09	21	13:30	62	39.7	0
20200921T133500	2020	09	21	13:35	61.8	40.7	0
20200921T134000	2020	09	21	13:40	61.5	43.2	0
20200921T134500	2020	09	21	13:45	61.7	41.9	0
20200921T135000	2020	09	21	13:50	61.4	41.8	0
20200921T135500	2020	09	21	13:55	61.6	42.3	0
20200921T140000	2020	09	21	14:00	61.5	41.8	0
20200921T140500	2020	09	21	14:05	61.5	40.9	0
20200921T141000	2020	09	21	14:10	61.3	39.2	0
20200921T141500	2020	09	21	14:15	61.4	39.4	0
20200921T142000	2020	09	21	14:20	61.1	37.2	0
20200921T142500	2020	09	21	14:25	61.9	37.7	0
20200921T143000	2020	09	21	14:30	61.7	38.2	0
20200921T143500	2020	09	21	14:35	61.4	37.9	0
20200921T144000	2020	09	21	14:40	61.3	39	0
20200921T144500	2020	09	21	14:45	61	38.3	0
20200921T145000	2020	09	21	14:50	61.3	39.1	0
20200921T145500	2020	09	21	14:55	61.3	39.3	0
20200921T150000	2020	09	21	15:00	61.4	40.8	0
20200921T150500	2020	09	21	15:05	61.8	41.7	0
20200921T151000	2020	09	21	15:10	61.6	40.7	0
20200921T151500	2020	09	21	15:15	61.3	40.7	0
20200921T152000	2020	09	21	15:20	61	41.1	0
20200921T152500	2020	09	21	15:25	61.1	40.5	0
20200921T153000	2020	09	21	15:30	61.2	39.5	0
20200921T153500	2020	09	21	15:35	60.7	40.8	0
20200921T154000	2020	09	21	15:40	60.8	41.9	0
20200921T154500	2020	09	21	15:45	61.3	42.2	0
20200921T155000	2020	09	21	15:50	60.8	42.2	0
20200921T155500	2020	09	21	15:55	61.1	41.2	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200921T160000	2020	09	21	16:00	60.5	41.5	0
20200921T160500	2020	09	21	16:05	61	42.7	0
20200921T161000	2020	09	21	16:10	61.1	41.3	0
20200921T161500	2020	09	21	16:15	60.5	40.7	0
20200921T162000	2020	09	21	16:20	60.4	41.6	0
20200921T162500	2020	09	21	16:25	60.6	41.6	0
20200921T163000	2020	09	21	16:30	60.6	41.6	0
20200921T163500	2020	09	21	16:35	60.1	41.9	0
20200921T164000	2020	09	21	16:40	60.3	43.3	0
20200921T164500	2020	09	21	16:45	60	42.5	0
20200921T165000	2020	09	21	16:50	60.3	43.3	0
20200921T165500	2020	09	21	16:55	60	42.2	0
20200921T170000	2020	09	21	17:00	60	42.3	0
20200921T170500	2020	09	21	17:05	59.9	42.3	0
20200921T171000	2020	09	21	17:10	59.8	42.8	0
20200921T171500	2020	09	21	17:15	59.7	42.6	0
20200921T172000	2020	09	21	17:20	59.7	43.8	0
20200921T172500	2020	09	21	17:25	59.9	42.3	0
20200921T173000	2020	09	21	17:30	59.6	42.1	0
20200921T173500	2020	09	21	17:35	59.6	42.8	0
20200921T174000	2020	09	21	17:40	59.2	43.8	0
20200921T174500	2020	09	21	17:45	58.6	44.2	0
20200921T175000	2020	09	21	17:50	58	45.9	0
20200921T175500	2020	09	21	17:55	58.4	46.4	0
20200921T180000	2020	09	21	18:00	58.6	47.2	0
20200921T180500	2020	09	21	18:05	58.8	46.3	0
20200921T181000	2020	09	21	18:10	58.6	47.7	0
20200921T181500	2020	09	21	18:15	58.7	47.7	0
20200921T182000	2020	09	21	18:20	58.4	49	0
20200921T182500	2020	09	21	18:25	58.3	49.6	0
20200921T183000	2020	09	21	18:30	58.3	51.2	0
20200921T183500	2020	09	21	18:35	57.3	54.2	0
20200921T184000	2020	09	21	18:40	56.7	56.5	0
20200921T184500	2020	09	21	18:45	56.6	53.5	0
20200921T185000	2020	09	21	18:50	55.7	54.9	0
20200921T185500	2020	09	21	18:55	53.1	65.8	0
20200921T190000	2020	09	21	19:00	50.4	64.4	0
20200921T190500	2020	09	21	19:05	50.4	68	0
20200921T191000	2020	09	21	19:10	50.8	68.2	0
20200921T191500	2020	09	21	19:15	49.5	69.5	0
20200921T192000	2020	09	21	19:20	49.1	71.5	0
20200921T192500	2020	09	21	19:25	48	72.5	0
20200921T193000	2020	09	21	19:30	46.7	76.1	0
20200921T193500	2020	09	21	19:35	46.6	77.8	0
20200921T194000	2020	09	21	19:40	47.7	76.8	0
20200921T194500	2020	09	21	19:45	47.8	73.7	0
20200921T195000	2020	09	21	19:50	43.9	78.3	0
20200921T195500	2020	09	21	19:55	42.6	83.2	0
20200921T200000	2020	09	21	20:00	44.3	84.5	0
20200921T200500	2020	09	21	20:05	44.7	81.7	0
20200921T201000	2020	09	21	20:10	43.4	80.4	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200921T201500	2020	09	21	20:15	43.1	82.7	0
20200921T202000	2020	09	21	20:20	43	83.7	0
20200921T202500	2020	09	21	20:25	42.5	84.5	0
20200921T203000	2020	09	21	20:30	43.1	86.1	0
20200921T203500	2020	09	21	20:35	43.4	84.4	0
20200921T204000	2020	09	21	20:40	41.2	83.2	0
20200921T204500	2020	09	21	20:45	39.8	87.1	0
20200921T205000	2020	09	21	20:50	42.4	87.3	0
20200921T205500	2020	09	21	20:55	41.6	84.7	0
20200921T210000	2020	09	21	21:00	40.8	84.3	0
20200921T210500	2020	09	21	21:05	39.6	84.8	0
20200921T211000	2020	09	21	21:10	39	88	0
20200921T211500	2020	09	21	21:15	39.5	89.9	0
20200921T212000	2020	09	21	21:20	40.9	88.8	0
20200921T212500	2020	09	21	21:25	40.7	86.4	0
20200921T213000	2020	09	21	21:30	39.4	87.3	0
20200921T213500	2020	09	21	21:35	39.7	89.4	0
20200921T214000	2020	09	21	21:40	38.4	89.3	0
20200921T214500	2020	09	21	21:45	38.8	90.7	0
20200921T215000	2020	09	21	21:50	38.5	89.8	0
20200921T215500	2020	09	21	21:55	38.5	90	0
20200921T220000	2020	09	21	22:00	38.3	91	0
20200921T220500	2020	09	21	22:05	37.5	90.9	0
20200921T221000	2020	09	21	22:10	39.2	91.3	0
20200921T221500	2020	09	21	22:15	40.8	88.1	0
20200921T222000	2020	09	21	22:20	38.9	85.3	0
20200921T222500	2020	09	21	22:25	38.5	85.9	0
20200921T223000	2020	09	21	22:30	38.6	86.1	0
20200921T223500	2020	09	21	22:35	39.6	86.9	0
20200921T224000	2020	09	21	22:40	40.2	86.9	0
20200921T224500	2020	09	21	22:45	37.9	86.6	0
20200921T225000	2020	09	21	22:50	37.4	90.4	0
20200921T225500	2020	09	21	22:55	38.6	90.9	0
20200921T230000	2020	09	21	23:00	39.3	89.4	0
20200921T230500	2020	09	21	23:05	37.8	88.3	0
20200921T231000	2020	09	21	23:10	36.9	89.7	0
20200921T231500	2020	09	21	23:15	37.8	89.7	0
20200921T232000	2020	09	21	23:20	39.9	86.7	0
20200921T232500	2020	09	21	23:25	40.2	83.2	0
20200921T233000	2020	09	21	23:30	43	79.2	0
20200921T233500	2020	09	21	23:35	44.2	72.9	0
20200921T234000	2020	09	21	23:40	41.3	76.6	0
20200921T234500	2020	09	21	23:45	39.4	79.9	0
20200921T235000	2020	09	21	23:50	38.7	82.1	0
20200921T235500	2020	09	21	23:55	39.6	84.4	0
20200922T000000	2020	09	22	00:00	41.2	82.6	0
20200922T000500	2020	09	22	00:05	38.8	81.1	0
20200922T001000	2020	09	22	00:10	36.7	85.4	0
20200922T001500	2020	09	22	00:15	39.7	88.8	0
20200922T002000	2020	09	22	00:20	41.6	83.7	0
20200922T002500	2020	09	22	00:25	41.5	80.9	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200922T003000	2020	09	22	00:30	40.2	82.7	0
20200922T003500	2020	09	22	00:35	39.5	84.6	0
20200922T004000	2020	09	22	00:40	38.9	86	0
20200922T004500	2020	09	22	00:45	37.9	87.3	0
20200922T005000	2020	09	22	00:50	37	87.4	0
20200922T005500	2020	09	22	00:55	38.2	90.1	0
20200922T010000	2020	09	22	01:00	38.3	89.9	0
20200922T010500	2020	09	22	01:05	38.3	89.6	0
20200922T011000	2020	09	22	01:10	38.4	89.7	0
20200922T011500	2020	09	22	01:15	37.9	89.5	0
20200922T012000	2020	09	22	01:20	37	89.4	0
20200922T012500	2020	09	22	01:25	37.3	90.2	0
20200922T013000	2020	09	22	01:30	35.5	89.8	0
20200922T013500	2020	09	22	01:35	36.3	92.2	0
20200922T014000	2020	09	22	01:40	36.9	93.1	0
20200922T014500	2020	09	22	01:45	35.8	91.8	0
20200922T015000	2020	09	22	01:50	35.7	92.2	0
20200922T015500	2020	09	22	01:55	37	93.7	0
20200922T020000	2020	09	22	02:00	35.7	91.1	0
20200922T020500	2020	09	22	02:05	37.5	92	0
20200922T021000	2020	09	22	02:10	38.1	89.4	0
20200922T021500	2020	09	22	02:15	38.7	87.5	0
20200922T022000	2020	09	22	02:20	37.9	86.8	0
20200922T022500	2020	09	22	02:25	38.7	88.4	0
20200922T023000	2020	09	22	02:30	37.4	85.4	0
20200922T023500	2020	09	22	02:35	35.7	87.2	0
20200922T024000	2020	09	22	02:40	36.4	90.9	0
20200922T024500	2020	09	22	02:45	36.2	91	0
20200922T025000	2020	09	22	02:50	35.7	91.5	0
20200922T025500	2020	09	22	02:55	35.5	92.8	0
20200922T030000	2020	09	22	03:00	34.2	92.5	0
20200922T030500	2020	09	22	03:05	34	94.2	0
20200922T031000	2020	09	22	03:10	34.2	94.5	0
20200922T031500	2020	09	22	03:15	34.7	94.4	0
20200922T032000	2020	09	22	03:20	34.6	92.2	0
20200922T032500	2020	09	22	03:25	34.8	93.7	0
20200922T033000	2020	09	22	03:30	36.5	95	0
20200922T033500	2020	09	22	03:35	36.8	94	0
20200922T034000	2020	09	22	03:40	35.7	91.7	0
20200922T034500	2020	09	22	03:45	34.2	91.4	0
20200922T035000	2020	09	22	03:50	35.1	94.5	0
20200922T035500	2020	09	22	03:55	35.8	95.7	0
20200922T040000	2020	09	22	04:00	34.2	93.6	0
20200922T040500	2020	09	22	04:05	35.2	95	0
20200922T041000	2020	09	22	04:10	34.3	93.8	0
20200922T041500	2020	09	22	04:15	34.9	95.3	0
20200922T042000	2020	09	22	04:20	33.2	92.9	0
20200922T042500	2020	09	22	04:25	34.1	94.4	0
20200922T043000	2020	09	22	04:30	35.8	97.1	0
20200922T043500	2020	09	22	04:35	37.2	96.7	0
20200922T044000	2020	09	22	04:40	36.8	92.1	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200922T044500	2020	09	22	04:45	35.8	90.7	0
20200922T045000	2020	09	22	04:50	34.6	91.9	0
20200922T045500	2020	09	22	04:55	32.8	93.2	0
20200922T050000	2020	09	22	05:00	34	95.7	0
20200922T050500	2020	09	22	05:05	35.1	96.6	0
20200922T051000	2020	09	22	05:10	35.8	95.2	0
20200922T051500	2020	09	22	05:15	35.6	94.3	0
20200922T052000	2020	09	22	05:20	33.8	91.9	0
20200922T052500	2020	09	22	05:25	33.2	93.9	0
20200922T053000	2020	09	22	05:30	35.1	95.3	0
20200922T053500	2020	09	22	05:35	33.9	93.3	0
20200922T054000	2020	09	22	05:40	34.3	94.2	0
20200922T054500	2020	09	22	05:45	34.5	93	0
20200922T055000	2020	09	22	05:50	35.5	94.2	0
20200922T055500	2020	09	22	05:55	34.9	92.1	0
20200922T060000	2020	09	22	06:00	35.6	93.2	0
20200922T060500	2020	09	22	06:05	34.8	92.8	0
20200922T061000	2020	09	22	06:10	34.3	93.1	0
20200922T061500	2020	09	22	06:15	33	92.7	0
20200922T062000	2020	09	22	06:20	33.5	94.4	0
20200922T062500	2020	09	22	06:25	34.8	96.6	0
20200922T063000	2020	09	22	06:30	33.9	96.3	0
20200922T063500	2020	09	22	06:35	34.4	96.1	0
20200922T064000	2020	09	22	06:40	35.1	97.1	0
20200922T064500	2020	09	22	06:45	34.5	95.1	0
20200922T065000	2020	09	22	06:50	34.4	95.5	0
20200922T065500	2020	09	22	06:55	35.4	97	0
20200922T070000	2020	09	22	07:00	34.6	97	0
20200922T070500	2020	09	22	07:05	35.5	96.8	0
20200922T071000	2020	09	22	07:10	36.1	97.5	0
20200922T071500	2020	09	22	07:15	34.8	96.8	0
20200922T072000	2020	09	22	07:20	34.2	95	0
20200922T072500	2020	09	22	07:25	35.4	95.6	0
20200922T073000	2020	09	22	07:30	36.7	96.3	0
20200922T073500	2020	09	22	07:35	36.8	95.4	0
20200922T074000	2020	09	22	07:40	36	92	0
20200922T074500	2020	09	22	07:45	36.2	91.4	0
20200922T075000	2020	09	22	07:50	36	91.6	0
20200922T075500	2020	09	22	07:55	38.3	93.9	0
20200922T080000	2020	09	22	08:00	40.8	90.6	0
20200922T080500	2020	09	22	08:05	41.9	87.6	0
20200922T081000	2020	09	22	08:10	42.7	87.2	0
20200922T081500	2020	09	22	08:15	43.4	87.4	0
20200922T082000	2020	09	22	08:20	44	85.1	0
20200922T082500	2020	09	22	08:25	44.5	84.5	0
20200922T083000	2020	09	22	08:30	45	84.1	0
20200922T083500	2020	09	22	08:35	45.7	84.4	0
20200922T084000	2020	09	22	08:40	46.4	83.3	0
20200922T084500	2020	09	22	08:45	47.2	82.7	0
20200922T085000	2020	09	22	08:50	47.7	79.4	0
20200922T085500	2020	09	22	08:55	48.4	78	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200922T090000	2020	09	22	09:00	49	78.5	0
20200922T090500	2020	09	22	09:05	49.2	76.9	0
20200922T091000	2020	09	22	09:10	49.6	78.3	0
20200922T091500	2020	09	22	09:15	50.1	79.2	0
20200922T092000	2020	09	22	09:20	50.5	77.1	0
20200922T092500	2020	09	22	09:25	50.9	75.6	0
20200922T093000	2020	09	22	09:30	51.7	76.1	0
20200922T093500	2020	09	22	09:35	51.9	76.6	0
20200922T094000	2020	09	22	09:40	52.6	75.9	0
20200922T094500	2020	09	22	09:45	52.9	75.3	0
20200922T095000	2020	09	22	09:50	54	73.9	0
20200922T095500	2020	09	22	09:55	54.2	69.2	0
20200922T100000	2020	09	22	10:00	54.6	68.4	0
20200922T100500	2020	09	22	10:05	55.5	67.3	0
20200922T101000	2020	09	22	10:10	56	67.9	0
20200922T101500	2020	09	22	10:15	56	67.5	0
20200922T102000	2020	09	22	10:20	56	68.6	0
20200922T102500	2020	09	22	10:25	57.3	68.2	0
20200922T103000	2020	09	22	10:30	58	66.1	0
20200922T103500	2020	09	22	10:35	58	64.9	0
20200922T104000	2020	09	22	10:40	58.7	66.6	0
20200922T104500	2020	09	22	10:45	57.6	65.3	0
20200922T105000	2020	09	22	10:50	58.7	66	0
20200922T105500	2020	09	22	10:55	59.4	64	0
20200922T110000	2020	09	22	11:00	59.9	63.4	0
20200922T110500	2020	09	22	11:05	59.5	62.2	0
20200922T111000	2020	09	22	11:10	61	63.7	0
20200922T111500	2020	09	22	11:15	61.6	61.9	0
20200922T112000	2020	09	22	11:20	61.5	60.3	0
20200922T112500	2020	09	22	11:25	61.1	53.4	0
20200922T113000	2020	09	22	11:30	60.8	52.9	0
20200922T113500	2020	09	22	11:35	60.8	52.8	0
20200922T114000	2020	09	22	11:40	61.5	56	0
20200922T114500	2020	09	22	11:45	61	50.5	0
20200922T115000	2020	09	22	11:50	61.6	56.2	0
20200922T115500	2020	09	22	11:55	60.8	47.6	0
20200922T120000	2020	09	22	12:00	61.7	50.6	0
20200922T120500	2020	09	22	12:05	60.8	54.5	0
20200922T121000	2020	09	22	12:10	61.3	55.4	0
20200922T121500	2020	09	22	12:15	61.1	56.4	0
20200922T122000	2020	09	22	12:20	61.8	56.4	0
20200922T122500	2020	09	22	12:25	61.7	56.6	0
20200922T123000	2020	09	22	12:30	62	57	0
20200922T123500	2020	09	22	12:35	61.7	57.8	0
20200922T124000	2020	09	22	12:40	62.2	57.5	0
20200922T124500	2020	09	22	12:45	62.6	59.4	0
20200922T125000	2020	09	22	12:50	61.7	57.2	0
20200922T125500	2020	09	22	12:55	61.6	56.7	0
20200922T130000	2020	09	22	13:00	62.5	56.5	0
20200922T130500	2020	09	22	13:05	62.7	60.1	0
20200922T131000	2020	09	22	13:10	62.3	62.2	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200922T131500	2020	09	22	13:15	62.4	60.6	0
20200922T132000	2020	09	22	13:20	62	61.5	0
20200922T132500	2020	09	22	13:25	63	64.5	0
20200922T133000	2020	09	22	13:30	62.8	60.9	0
20200922T133500	2020	09	22	13:35	62.7	59.6	0
20200922T134000	2020	09	22	13:40	62.4	57.4	0
20200922T134500	2020	09	22	13:45	62.8	59.8	0
20200922T135000	2020	09	22	13:50	62.2	59.8	0
20200922T135500	2020	09	22	13:55	62.1	63.1	0
20200922T140000	2020	09	22	14:00	62.5	63.3	0
20200922T140500	2020	09	22	14:05	61.7	62.8	0
20200922T141000	2020	09	22	14:10	62	62.3	0
20200922T141500	2020	09	22	14:15	62.2	61.3	0
20200922T142000	2020	09	22	14:20	62.2	61.4	0
20200922T142500	2020	09	22	14:25	62.2	61.5	0
20200922T143000	2020	09	22	14:30	62.5	62	0
20200922T143500	2020	09	22	14:35	62.3	62.1	0
20200922T144000	2020	09	22	14:40	62.5	62.5	0
20200922T144500	2020	09	22	14:45	63.1	62.5	0
20200922T145000	2020	09	22	14:50	63.2	60.6	0
20200922T145500	2020	09	22	14:55	62.8	60.5	0
20200922T150000	2020	09	22	15:00	63.2	58.7	0
20200922T150500	2020	09	22	15:05	63.1	56.8	0
20200922T151000	2020	09	22	15:10	63.3	57.7	0
20200922T151500	2020	09	22	15:15	63.6	57.2	0
20200922T152000	2020	09	22	15:20	63.1	57.7	0
20200922T152500	2020	09	22	15:25	63.5	57.9	0
20200922T153000	2020	09	22	15:30	63.7	57.9	0
20200922T153500	2020	09	22	15:35	63.4	57.9	0
20200922T154000	2020	09	22	15:40	63.3	59.2	0
20200922T154500	2020	09	22	15:45	63.5	59.2	0
20200922T155000	2020	09	22	15:50	63.7	60	0
20200922T155500	2020	09	22	15:55	63.8	60.3	0
20200922T160000	2020	09	22	16:00	63.4	58.4	0
20200922T160500	2020	09	22	16:05	64	60.5	0
20200922T161000	2020	09	22	16:10	63.5	62.3	0
20200922T161500	2020	09	22	16:15	63.6	62.2	0
20200922T162000	2020	09	22	16:20	63.3	62	0
20200922T162500	2020	09	22	16:25	63.4	64.1	0
20200922T163000	2020	09	22	16:30	63.4	63.8	0
20200922T163500	2020	09	22	16:35	63.5	62.4	0
20200922T164000	2020	09	22	16:40	63.8	61.9	0
20200922T164500	2020	09	22	16:45	64	63.4	0
20200922T165000	2020	09	22	16:50	63.3	64.6	0
20200922T165500	2020	09	22	16:55	63.1	65	0
20200922T170000	2020	09	22	17:00	62.9	64.6	0
20200922T170500	2020	09	22	17:05	63.2	64	0
20200922T171000	2020	09	22	17:10	63.2	62.9	0
20200922T171500	2020	09	22	17:15	63.2	62.9	0
20200922T172000	2020	09	22	17:20	63.1	63.5	0
20200922T172500	2020	09	22	17:25	63	64.4	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200922T173000	2020	09	22	17:30	62.7	66	0
20200922T173500	2020	09	22	17:35	62.7	66.7	0
20200922T174000	2020	09	22	17:40	62.6	68.2	0
20200922T174500	2020	09	22	17:45	62.5	68.7	0
20200922T175000	2020	09	22	17:50	62.2	67.7	0
20200922T175500	2020	09	22	17:55	62.1	70	0
20200922T180000	2020	09	22	18:00	62	70.4	0
20200922T180500	2020	09	22	18:05	61.9	70.5	0
20200922T181000	2020	09	22	18:10	61.8	69.6	0
20200922T181500	2020	09	22	18:15	61.6	70.2	0
20200922T182000	2020	09	22	18:20	61.4	70.5	0
20200922T182500	2020	09	22	18:25	61.3	69.5	0
20200922T183000	2020	09	22	18:30	61.3	67.1	0
20200922T183500	2020	09	22	18:35	60.9	67.4	0
20200922T184000	2020	09	22	18:40	60.7	67.6	0
20200922T184500	2020	09	22	18:45	60.4	69.7	0
20200922T185000	2020	09	22	18:50	60.1	70.9	0
20200922T185500	2020	09	22	18:55	60.3	69.7	0
20200922T190000	2020	09	22	19:00	60.5	67	0
20200922T190500	2020	09	22	19:05	60.6	65.6	0
20200922T191000	2020	09	22	19:10	60.4	65.1	0
20200922T191500	2020	09	22	19:15	60.8	65.3	0
20200922T192000	2020	09	22	19:20	60.3	65.9	0
20200922T192500	2020	09	22	19:25	60.3	66.2	0
20200922T193000	2020	09	22	19:30	60.5	66.2	0
20200922T193500	2020	09	22	19:35	60.8	65.7	0
20200922T194000	2020	09	22	19:40	60.5	65.8	0
20200922T194500	2020	09	22	19:45	60.4	65.6	0
20200922T195000	2020	09	22	19:50	60.3	66.2	0
20200922T195500	2020	09	22	19:55	60.3	67	0
20200922T200000	2020	09	22	20:00	60	67.3	0
20200922T200500	2020	09	22	20:05	60	67.2	0
20200922T201000	2020	09	22	20:10	59.9	67.3	0
20200922T201500	2020	09	22	20:15	59.9	67.7	0
20200922T202000	2020	09	22	20:20	59.8	67.4	0
20200922T202500	2020	09	22	20:25	59.9	67.2	0
20200922T203000	2020	09	22	20:30	60.2	67.1	0
20200922T203500	2020	09	22	20:35	60.3	67.1	0
20200922T204000	2020	09	22	20:40	59.9	67.5	0
20200922T204500	2020	09	22	20:45	59.9	66.5	0
20200922T205000	2020	09	22	20:50	60	65.7	0
20200922T205500	2020	09	22	20:55	60	66.1	0
20200922T210000	2020	09	22	21:00	59.9	66.2	0
20200922T210500	2020	09	22	21:05	60	65.5	0
20200922T211000	2020	09	22	21:10	60.3	63.7	0
20200922T211500	2020	09	22	21:15	59.9	65.8	0
20200922T212000	2020	09	22	21:20	60	67.3	0
20200922T212500	2020	09	22	21:25	59.8	68.5	0
20200922T213000	2020	09	22	21:30	59.8	70.1	0
20200922T213500	2020	09	22	21:35	59.8	71.2	0
20200922T214000	2020	09	22	21:40	60.1	71.4	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200922T214500	2020	09	22	21:45	59.9	72.5	0
20200922T215000	2020	09	22	21:50	59.6	74	0
20200922T215500	2020	09	22	21:55	59.1	75.9	0
20200922T220000	2020	09	22	22:00	59.3	76.5	0
20200922T220500	2020	09	22	22:05	59.4	76.3	0
20200922T221000	2020	09	22	22:10	59.4	76.6	0
20200922T221500	2020	09	22	22:15	59.6	77.3	0
20200922T222000	2020	09	22	22:20	60.1	76.8	0
20200922T222500	2020	09	22	22:25	60.6	76.1	0
20200922T223000	2020	09	22	22:30	61	75.6	0
20200922T223500	2020	09	22	22:35	60.9	75.8	0
20200922T224000	2020	09	22	22:40	61	75.8	0
20200922T224500	2020	09	22	22:45	61.2	75.8	0
20200922T225000	2020	09	22	22:50	61.3	76.3	0
20200922T225500	2020	09	22	22:55	61.6	76.5	0
20200922T230000	2020	09	22	23:00	61.7	75.6	0
20200922T230500	2020	09	22	23:05	61.5	76	0
20200922T231000	2020	09	22	23:10	61.5	75.8	0
20200922T231500	2020	09	22	23:15	61.5	75	0
20200922T232000	2020	09	22	23:20	61.6	73.4	0
20200922T232500	2020	09	22	23:25	61.6	72.9	0
20200922T233000	2020	09	22	23:30	61.8	72.4	0
20200922T233500	2020	09	22	23:35	61.7	72.8	0
20200922T234000	2020	09	22	23:40	61.6	73.6	0
20200922T234500	2020	09	22	23:45	61.5	74.5	0
20200922T235000	2020	09	22	23:50	61.6	75.2	0
20200922T235500	2020	09	22	23:55	61.6	75.9	0
20200923T000000	2020	09	23	00:00	61.7	75.5	0
20200923T000500	2020	09	23	00:05	61.7	74.8	0
20200923T001000	2020	09	23	00:10	61.8	73.4	0
20200923T001500	2020	09	23	00:15	61.9	72.1	0
20200923T002000	2020	09	23	00:20	62	70	0
20200923T002500	2020	09	23	00:25	61.6	69.8	0
20200923T003000	2020	09	23	00:30	61.6	70.1	0
20200923T003500	2020	09	23	00:35	61.7	70.7	0
20200923T004000	2020	09	23	00:40	61.7	71.9	0
20200923T004500	2020	09	23	00:45	61.7	73.7	0
20200923T005000	2020	09	23	00:50	61.8	74	0
20200923T005500	2020	09	23	00:55	62.2	70.4	0
20200923T010000	2020	09	23	01:00	62.3	70.1	0
20200923T010500	2020	09	23	01:05	62	73.4	0
20200923T011000	2020	09	23	01:10	62	75.6	0
20200923T011500	2020	09	23	01:15	62.2	76.1	0
20200923T012000	2020	09	23	01:20	62	76.8	0
20200923T012500	2020	09	23	01:25	61.9	77.4	0
20200923T013000	2020	09	23	01:30	62	77.8	0
20200923T013500	2020	09	23	01:35	61.8	78.8	0
20200923T014000	2020	09	23	01:40	62	78.5	0
20200923T014500	2020	09	23	01:45	62	79.1	0
20200923T015000	2020	09	23	01:50	62	79.5	0
20200923T015500	2020	09	23	01:55	61.9	80.5	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200923T020000	2020	09	23	02:00	61.5	81.5	0
20200923T020500	2020	09	23	02:05	61.6	82.5	0
20200923T021000	2020	09	23	02:10	62.1	82.1	0
20200923T021500	2020	09	23	02:15	62	82.7	0
20200923T022000	2020	09	23	02:20	62	83.5	0
20200923T022500	2020	09	23	02:25	62	83.7	0
20200923T023000	2020	09	23	02:30	62.1	84.4	0
20200923T023500	2020	09	23	02:35	62	85.2	0
20200923T024000	2020	09	23	02:40	62	86.1	0
20200923T024500	2020	09	23	02:45	62.1	84.3	0
20200923T025000	2020	09	23	02:50	62	83.7	0
20200923T025500	2020	09	23	02:55	61.7	85.3	0
20200923T030000	2020	09	23	03:00	61.6	86.5	0
20200923T030500	2020	09	23	03:05	61.2	86.6	0
20200923T031000	2020	09	23	03:10	61	86.6	0
20200923T031500	2020	09	23	03:15	60.8	84.6	0
20200923T032000	2020	09	23	03:20	60.4	84	0
20200923T032500	2020	09	23	03:25	60.3	83.5	0
20200923T033000	2020	09	23	03:30	59.9	82.6	0
20200923T033500	2020	09	23	03:35	59.6	81.5	0
20200923T034000	2020	09	23	03:40	59.9	79.7	0
20200923T034500	2020	09	23	03:45	59.5	79	0
20200923T035000	2020	09	23	03:50	59.3	78.9	0
20200923T035500	2020	09	23	03:55	58.8	78	0
20200923T040000	2020	09	23	04:00	58.4	78.7	0
20200923T040500	2020	09	23	04:05	58.1	79.4	0
20200923T041000	2020	09	23	04:10	58.1	80.3	0
20200923T041500	2020	09	23	04:15	57.8	80	0
20200923T042000	2020	09	23	04:20	57.2	80.6	0
20200923T042500	2020	09	23	04:25	57.2	81.3	0
20200923T043000	2020	09	23	04:30	56.9	81.3	0
20200923T043500	2020	09	23	04:35	56.9	81.9	0
20200923T044000	2020	09	23	04:40	56.6	81.7	0
20200923T044500	2020	09	23	04:45	56.4	82.7	0
20200923T045000	2020	09	23	04:50	56	82.9	0
20200923T045500	2020	09	23	04:55	56.3	83.1	0
20200923T050000	2020	09	23	05:00	55.7	83.5	0
20200923T050500	2020	09	23	05:05	55.1	84.3	0
20200923T051000	2020	09	23	05:10	55.3	85.5	0
20200923T051500	2020	09	23	05:15	55.5	86.6	0
20200923T052000	2020	09	23	05:20	54.9	86.6	0
20200923T052500	2020	09	23	05:25	55.2	87.1	0
20200923T053000	2020	09	23	05:30	55.5	86.2	0
20200923T053500	2020	09	23	05:35	55.5	86.3	0
20200923T054000	2020	09	23	05:40	54.8	86.3	0
20200923T054500	2020	09	23	05:45	54.5	87.5	0
20200923T055000	2020	09	23	05:50	54.2	87.9	0
20200923T055500	2020	09	23	05:55	53.8	89.3	0
20200923T060000	2020	09	23	06:00	53.8	89	0
20200923T060500	2020	09	23	06:05	52.8	89.8	0
20200923T061000	2020	09	23	06:10	52.7	90.4	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200923T061500	2020	09	23	06:15	53.8	92	0
20200923T062000	2020	09	23	06:20	54.8	89.6	0
20200923T062500	2020	09	23	06:25	55.4	87.5	0
20200923T063000	2020	09	23	06:30	54.9	86.5	0
20200923T063500	2020	09	23	06:35	54.7	87.4	0
20200923T064000	2020	09	23	06:40	55	88.5	0
20200923T064500	2020	09	23	06:45	55	89	0
20200923T065000	2020	09	23	06:50	54.5	89.5	0
20200923T065500	2020	09	23	06:55	55.1	89.8	0
20200923T070000	2020	09	23	07:00	54.9	89.4	0
20200923T070500	2020	09	23	07:05	55.3	88.9	0
20200923T071000	2020	09	23	07:10	55.3	87.5	0
20200923T071500	2020	09	23	07:15	55.4	87	0
20200923T072000	2020	09	23	07:20	55.2	86.9	0
20200923T072500	2020	09	23	07:25	54.9	87.6	0
20200923T073000	2020	09	23	07:30	55	88.5	0
20200923T073500	2020	09	23	07:35	55.1	88.3	0
20200923T074000	2020	09	23	07:40	55.4	88.7	0
20200923T074500	2020	09	23	07:45	55.4	89.1	0
20200923T075000	2020	09	23	07:50	55.5	89.1	0
20200923T075500	2020	09	23	07:55	55.4	88.7	0
20200923T080000	2020	09	23	08:00	55.6	88.6	0
20200923T080500	2020	09	23	08:05	56.3	88.7	0
20200923T081000	2020	09	23	08:10	56.3	88.3	0
20200923T081500	2020	09	23	08:15	56.5	87.9	0
20200923T082000	2020	09	23	08:20	57.4	86.3	0
20200923T082500	2020	09	23	08:25	57.6	84.7	0
20200923T083000	2020	09	23	08:30	58	84	0
20200923T083500	2020	09	23	08:35	58.1	83	0
20200923T084000	2020	09	23	08:40	58.5	82.3	0
20200923T084500	2020	09	23	08:45	58.7	82.2	0
20200923T085000	2020	09	23	08:50	59.1	81.5	0
20200923T085500	2020	09	23	08:55	59.3	80.5	0
20200923T090000	2020	09	23	09:00	59.3	79.9	0
20200923T090500	2020	09	23	09:05	59.4	79.9	0
20200923T091000	2020	09	23	09:10	59.7	79.7	0
20200923T091500	2020	09	23	09:15	60.1	79.6	0
20200923T092000	2020	09	23	09:20	60.1	78.6	0
20200923T092500	2020	09	23	09:25	60.9	78.7	0
20200923T093000	2020	09	23	09:30	61	76.5	0
20200923T093500	2020	09	23	09:35			
20200923T094000	2020	09	23	09:40			
20200923T094500	2020	09	23	09:45			
20200923T095000	2020	09	23	09:50			
20200923T095500	2020	09	23	09:55			
20200923T100000	2020	09	23	10:00			
20200923T100500	2020	09	23	10:05			
20200923T101000	2020	09	23	10:10			
20200923T101500	2020	09	23	10:15			
20200923T102000	2020	09	23	10:20			
20200923T102500	2020	09	23	10:25			

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200923T103000	2020	09	23	10:30			
20200923T103500	2020	09	23	10:35			
20200923T104000	2020	09	23	10:40			
20200923T104500	2020	09	23	10:45			
20200923T105000	2020	09	23	10:50			
20200923T105500	2020	09	23	10:55			
20200923T110000	2020	09	23	11:00	63.8	74.5	
20200923T110500	2020	09	23	11:05	64	73.7	0
20200923T111000	2020	09	23	11:10	64.5	74.3	0
20200923T111500	2020	09	23	11:15	65.1	72.2	0
20200923T112000	2020	09	23	11:20	65	72.6	0
20200923T112500	2020	09	23	11:25	64.6	73.2	0
20200923T113000	2020	09	23	11:30	65.6	72.9	0
20200923T113500	2020	09	23	11:35	65.3	70.2	0
20200923T114000	2020	09	23	11:40	65.3	71.5	0
20200923T114500	2020	09	23	11:45	65.7	71.8	0
20200923T115000	2020	09	23	11:50	65.2	72.1	0
20200923T115500	2020	09	23	11:55	65.3	72.8	0
20200923T120000	2020	09	23	12:00	65.5	73.2	0
20200923T120500	2020	09	23	12:05	65.4	73.2	0
20200923T121000	2020	09	23	12:10	65.6	72.9	0
20200923T121500	2020	09	23	12:15	65.7	72.8	0
20200923T122000	2020	09	23	12:20	65.6	72.5	0
20200923T122500	2020	09	23	12:25	65.8	74	0
20200923T123000	2020	09	23	12:30	66.5	73.7	0
20200923T123500	2020	09	23	12:35	66.2	74.7	0
20200923T124000	2020	09	23	12:40	66.5	74.2	0
20200923T124500	2020	09	23	12:45	67.1	73.1	0
20200923T125000	2020	09	23	12:50	67.5	72.9	0
20200923T125500	2020	09	23	12:55	66.9	71.1	0
20200923T130000	2020	09	23	13:00	67.5	72.4	0
20200923T130500	2020	09	23	13:05	67.6	73	0
20200923T131000	2020	09	23	13:10	67.2	73.9	0
20200923T131500	2020	09	23	13:15	68.3	71.8	0
20200923T132000	2020	09	23	13:20	67.8	73.6	0
20200923T132500	2020	09	23	13:25	67.9	71.7	0
20200923T133000	2020	09	23	13:30	68.3	72.8	0
20200923T133500	2020	09	23	13:35	67.8	74.7	0
20200923T134000	2020	09	23	13:40	68	73.4	0
20200923T134500	2020	09	23	13:45	68.3	73.6	0
20200923T135000	2020	09	23	13:50	68.5	73	0
20200923T135500	2020	09	23	13:55	69.2	71	0
20200923T140000	2020	09	23	14:00	69.2	69.3	0
20200923T140500	2020	09	23	14:05	69.8	69.2	0
20200923T141000	2020	09	23	14:10	69.7	69.3	0
20200923T141500	2020	09	23	14:15	68.9	73	0
20200923T142000	2020	09	23	14:20	68.5	77.7	0
20200923T142500	2020	09	23	14:25	68.1	77.8	0
20200923T143000	2020	09	23	14:30	68.6	77.6	0
20200923T143500	2020	09	23	14:35	68.6	76.3	0
20200923T144000	2020	09	23	14:40	68.4	78.2	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200923T144500	2020	09	23	14:45	68.4	78.5	0
20200923T145000	2020	09	23	14:50	68.7	78.6	0
20200923T145500	2020	09	23	14:55	68.6	76.8	0
20200923T150000	2020	09	23	15:00	68.2	77.9	0
20200923T150500	2020	09	23	15:05	68.2	78.9	0
20200923T151000	2020	09	23	15:10	68.4	79.5	0
20200923T151500	2020	09	23	15:15	69	79	0
20200923T152000	2020	09	23	15:20	68.7	79.9	0
20200923T152500	2020	09	23	15:25	68.8	79.9	0
20200923T153000	2020	09	23	15:30	68.9	80.3	0
20200923T153500	2020	09	23	15:35	69.1	80	0
20200923T154000	2020	09	23	15:40	69.1	79.7	0
20200923T154500	2020	09	23	15:45	69.2	79.5	0
20200923T155000	2020	09	23	15:50	68.5	80.5	0
20200923T155500	2020	09	23	15:55	68.8	80.5	0
20200923T160000	2020	09	23	16:00	68.9	79.7	0
20200923T160500	2020	09	23	16:05	69.3	79	0
20200923T161000	2020	09	23	16:10	69.7	76.3	0
20200923T161500	2020	09	23	16:15	69.7	75.3	0
20200923T162000	2020	09	23	16:20	69.7	75	0
20200923T162500	2020	09	23	16:25	70	74.3	0
20200923T163000	2020	09	23	16:30	70.1	74	0
20200923T163500	2020	09	23	16:35	69.9	74	0
20200923T164000	2020	09	23	16:40	69.2	75.8	0
20200923T164500	2020	09	23	16:45	69.1	76.1	0
20200923T165000	2020	09	23	16:50	69.1	76	0
20200923T165500	2020	09	23	16:55	69.1	76.8	0
20200923T170000	2020	09	23	17:00	69.5	74.2	0
20200923T170500	2020	09	23	17:05	69.5	73.6	0
20200923T171000	2020	09	23	17:10	69.4	73.4	0
20200923T171500	2020	09	23	17:15	69.3	72.7	0
20200923T172000	2020	09	23	17:20	69	74.1	0
20200923T172500	2020	09	23	17:25	68.8	75.4	0
20200923T173000	2020	09	23	17:30	68.7	75.5	0
20200923T173500	2020	09	23	17:35	68.5	77.2	0
20200923T174000	2020	09	23	17:40	68.4	76.7	0
20200923T174500	2020	09	23	17:45	68.4	76.4	0
20200923T175000	2020	09	23	17:50	68.2	76.8	0
20200923T175500	2020	09	23	17:55	68.1	77.5	0
20200923T180000	2020	09	23	18:00	68	77.9	0
20200923T180500	2020	09	23	18:05	67.8	78.2	0
20200923T181000	2020	09	23	18:10	67.8	77.2	0
20200923T181500	2020	09	23	18:15	67.7	77.5	0
20200923T182000	2020	09	23	18:20	67.3	78.9	0
20200923T182500	2020	09	23	18:25	67.2	79.7	0
20200923T183000	2020	09	23	18:30	67.1	79.3	0
20200923T183500	2020	09	23	18:35	67.1	78.6	0
20200923T184000	2020	09	23	18:40	66.9	78.9	0
20200923T184500	2020	09	23	18:45	66.8	78.9	0
20200923T185000	2020	09	23	18:50	66.7	78.6	0
20200923T185500	2020	09	23	18:55	66.7	78.5	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200923T190000	2020	09	23	19:00	66.4	78.5	0
20200923T190500	2020	09	23	19:05	66.6	76.9	0
20200923T191000	2020	09	23	19:10	66.6	74.7	0
20200923T191500	2020	09	23	19:15	66.3	74.8	0
20200923T192000	2020	09	23	19:20	66.5	73.9	0
20200923T192500	2020	09	23	19:25	66.6	72.9	0
20200923T193000	2020	09	23	19:30	66.3	73.6	0
20200923T193500	2020	09	23	19:35	66.4	73.6	0
20200923T194000	2020	09	23	19:40	66.3	74	0
20200923T194500	2020	09	23	19:45	66.3	75	0
20200923T195000	2020	09	23	19:50	66.3	75.3	0
20200923T195500	2020	09	23	19:55	66.1	76.4	0
20200923T200000	2020	09	23	20:00	66	77.8	0
20200923T200500	2020	09	23	20:05	65.9	78.7	0
20200923T201000	2020	09	23	20:10	65.5	79.8	0
20200923T201500	2020	09	23	20:15	65.4	80.8	0
20200923T202000	2020	09	23	20:20	65.4	81.3	0
20200923T202500	2020	09	23	20:25	65	82.6	0
20200923T203000	2020	09	23	20:30	64.6	83.6	0
20200923T203500	2020	09	23	20:35	64.7	83.8	0
20200923T204000	2020	09	23	20:40	64.9	83.7	0
20200923T204500	2020	09	23	20:45	64.7	83.7	0
20200923T205000	2020	09	23	20:50	64.5	84.1	0
20200923T205500	2020	09	23	20:55	64.4	84.1	0
20200923T210000	2020	09	23	21:00	64.2	84.1	0
20200923T210500	2020	09	23	21:05	63.8	84.6	0
20200923T211000	2020	09	23	21:10	64	84.1	0
20200923T211500	2020	09	23	21:15	64.1	83.4	0
20200923T212000	2020	09	23	21:20	63.5	83.7	0
20200923T212500	2020	09	23	21:25	62.5	85	0
20200923T213000	2020	09	23	21:30	62.8	86.6	0
20200923T213500	2020	09	23	21:35	62.2	85.4	0
20200923T214000	2020	09	23	21:40	61.1	86.5	0
20200923T214500	2020	09	23	21:45	61.1	89.3	0
20200923T215000	2020	09	23	21:50	60.9	90	0
20200923T215500	2020	09	23	21:55	59.8	88.6	0
20200923T220000	2020	09	23	22:00	61	88.7	0
20200923T220500	2020	09	23	22:05	61.7	86.2	0
20200923T221000	2020	09	23	22:10	62.4	85.1	0
20200923T221500	2020	09	23	22:15	62.2	82.9	0
20200923T222000	2020	09	23	22:20	62.2	81	0
20200923T222500	2020	09	23	22:25	63.4	78.5	0
20200923T223000	2020	09	23	22:30	63.1	76	0
20200923T223500	2020	09	23	22:35	63	76	0
20200923T224000	2020	09	23	22:40	63.5	75.1	0
20200923T224500	2020	09	23	22:45	63.1	76.2	0
20200923T225000	2020	09	23	22:50	63	77.1	0
20200923T225500	2020	09	23	22:55	61.2	77.7	0
20200923T230000	2020	09	23	23:00	60.1	81.5	0
20200923T230500	2020	09	23	23:05	60.1	84.7	0
20200923T231000	2020	09	23	23:10	59.1	85.5	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200923T231500	2020	09	23	23:15	60.2	85.9	0
20200923T232000	2020	09	23	23:20	59.3	85.1	0
20200923T232500	2020	09	23	23:25	57.5	87.3	0
20200923T233000	2020	09	23	23:30	57.5	90.6	0
20200923T233500	2020	09	23	23:35	58	91.2	0
20200923T234000	2020	09	23	23:40	60	90.3	0
20200923T234500	2020	09	23	23:45	60.9	86.9	0
20200923T235000	2020	09	23	23:50	60.6	85	0
20200923T235500	2020	09	23	23:55	59.5	85.1	0
20200924T000000	2020	09	24	00:00	59.1	85.4	0
20200924T000500	2020	09	24	00:05	58.6	85.6	0
20200924T001000	2020	09	24	00:10	58	87.7	0
20200924T001500	2020	09	24	00:15	58.6	89.8	0
20200924T002000	2020	09	24	00:20	59.2	89.5	0
20200924T002500	2020	09	24	00:25	59.1	88.3	0
20200924T003000	2020	09	24	00:30	58.9	88.4	0
20200924T003500	2020	09	24	00:35	57.8	88.9	0
20200924T004000	2020	09	24	00:40	56.8	89.9	0
20200924T004500	2020	09	24	00:45	57.5	92.1	0
20200924T005000	2020	09	24	00:50	58.1	90.6	0
20200924T005500	2020	09	24	00:55	58.4	89.2	0
20200924T010000	2020	09	24	01:00	56.5	86.8	0
20200924T010500	2020	09	24	01:05	54.2	89.6	0
20200924T011000	2020	09	24	01:10	52.8	91.4	0
20200924T011500	2020	09	24	01:15	53	94.2	0
20200924T012000	2020	09	24	01:20	53.4	95.8	0
20200924T012500	2020	09	24	01:25	54.4	97.6	0
20200924T013000	2020	09	24	01:30	55.2	97.7	0
20200924T013500	2020	09	24	01:35	55.6	96.9	0
20200924T014000	2020	09	24	01:40	54.9	95.8	0
20200924T014500	2020	09	24	01:45	52.4	93.2	0
20200924T015000	2020	09	24	01:50	51.9	95	0
20200924T015500	2020	09	24	01:55	51.7	95.5	0
20200924T020000	2020	09	24	02:00	51.7	96.4	0
20200924T020500	2020	09	24	02:05	52.5	98	0
20200924T021000	2020	09	24	02:10	50.6	97.4	0
20200924T021500	2020	09	24	02:15	49.7	96.9	0
20200924T022000	2020	09	24	02:20	51.4	98.2	0
20200924T022500	2020	09	24	02:25	52.7	99.1	0
20200924T023000	2020	09	24	02:30	53.1	99.2	0
20200924T023500	2020	09	24	02:35	53.3	99.4	0
20200924T024000	2020	09	24	02:40	50	98	0
20200924T024500	2020	09	24	02:45	48.8	97.5	0
20200924T025000	2020	09	24	02:50	49.5	98.5	0
20200924T025500	2020	09	24	02:55	50.5	98.9	0
20200924T030000	2020	09	24	03:00	51.9	99.5	0
20200924T030500	2020	09	24	03:05	53.8	99.9	0
20200924T031000	2020	09	24	03:10	52.7	99.5	0
20200924T031500	2020	09	24	03:15	50.3	98.4	0
20200924T032000	2020	09	24	03:20	54.5	100	0
20200924T032500	2020	09	24	03:25	55	99.3	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200924T033000	2020	09	24	03:30	54.1	97.7	0
20200924T033500	2020	09	24	03:35	56	97.1	0
20200924T034000	2020	09	24	03:40	56.2	94.2	0
20200924T034500	2020	09	24	03:45	59	94.8	0
20200924T035000	2020	09	24	03:50	60.1	89.5	0
20200924T035500	2020	09	24	03:55	58.2	86.4	0
20200924T040000	2020	09	24	04:00	56.2	90.2	0
20200924T040500	2020	09	24	04:05	58.2	93.2	0
20200924T041000	2020	09	24	04:10	57.7	92.1	0
20200924T041500	2020	09	24	04:15	59.2	92.6	0
20200924T042000	2020	09	24	04:20	58.6	90.6	0
20200924T042500	2020	09	24	04:25	58.5	91.7	0
20200924T043000	2020	09	24	04:30	57.5	90.1	0
20200924T043500	2020	09	24	04:35	56.2	92.6	0
20200924T044000	2020	09	24	04:40	57.5	95	0
20200924T044500	2020	09	24	04:45	57.4	94.1	0
20200924T045000	2020	09	24	04:50	56.4	92.5	0
20200924T045500	2020	09	24	04:55	54.3	91.5	0
20200924T050000	2020	09	24	05:00	55.6	95.2	0
20200924T050500	2020	09	24	05:05	55.1	96.2	0
20200924T051000	2020	09	24	05:10	54.9	96.5	0
20200924T051500	2020	09	24	05:15	57.1	98.3	0
20200924T052000	2020	09	24	05:20	57.8	97.6	0
20200924T052500	2020	09	24	05:25	55.2	93.5	0
20200924T053000	2020	09	24	05:30	54.4	94.6	0
20200924T053500	2020	09	24	05:35	55.4	96.5	0
20200924T054000	2020	09	24	05:40	55.6	97.4	0
20200924T054500	2020	09	24	05:45	56.3	97.9	0
20200924T055000	2020	09	24	05:50	56.6	97.6	0
20200924T055500	2020	09	24	05:55	56.8	96.6	0
20200924T060000	2020	09	24	06:00	56.6	96.2	0
20200924T060500	2020	09	24	06:05	55.9	95.7	0
20200924T061000	2020	09	24	06:10	56.2	96.1	0
20200924T061500	2020	09	24	06:15	56.6	96.8	0
20200924T062000	2020	09	24	06:20	55.1	95.2	0
20200924T062500	2020	09	24	06:25	55	96.6	0
20200924T063000	2020	09	24	06:30	55.1	97.4	0
20200924T063500	2020	09	24	06:35	56.2	98	0
20200924T064000	2020	09	24	06:40	53	96.5	0
20200924T064500	2020	09	24	06:45	54.1	97.4	0
20200924T065000	2020	09	24	06:50	56.4	98.9	0
20200924T065500	2020	09	24	06:55	56.3	98.2	0
20200924T070000	2020	09	24	07:00	53.8	96.6	0
20200924T070500	2020	09	24	07:05	52.8	95.4	0
20200924T071000	2020	09	24	07:10	54.7	98.2	0
20200924T071500	2020	09	24	07:15	56.4	98.5	0
20200924T072000	2020	09	24	07:20	57.2	97.1	0
20200924T072500	2020	09	24	07:25	56.2	94.8	0
20200924T073000	2020	09	24	07:30	53.4	91.7	0
20200924T073500	2020	09	24	07:35	53.5	94.1	0
20200924T074000	2020	09	24	07:40	53.8	95.7	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200924T074500	2020	09	24	07:45	55	97	0
20200924T075000	2020	09	24	07:50	55.6	97.1	0
20200924T075500	2020	09	24	07:55	54.6	94.7	0
20200924T080000	2020	09	24	08:00	54.5	95	0
20200924T080500	2020	09	24	08:05	55.6	95.4	0
20200924T081000	2020	09	24	08:10	57	95.7	0
20200924T081500	2020	09	24	08:15	58.8	96	0
20200924T082000	2020	09	24	08:20	60.5	94	0
20200924T082500	2020	09	24	08:25	61.1	90.2	0
20200924T083000	2020	09	24	08:30	62	88.3	0
20200924T083500	2020	09	24	08:35	63.1	86.7	0
20200924T084000	2020	09	24	08:40	63.8	82.4	0
20200924T084500	2020	09	24	08:45	63.9	82.4	0
20200924T085000	2020	09	24	08:50	64.3	80.2	0
20200924T085500	2020	09	24	08:55	64.6	78.9	0
20200924T090000	2020	09	24	09:00	64.8	79.8	0
20200924T090500	2020	09	24	09:05	64.8	79.8	0
20200924T091000	2020	09	24	09:10	65.2	79.4	0
20200924T091500	2020	09	24	09:15	65.4	79.9	0
20200924T092000	2020	09	24	09:20	65.5	78.3	0
20200924T092500	2020	09	24	09:25	66	79	0
20200924T093000	2020	09	24	09:30	65.8	77.9	0
20200924T093500	2020	09	24	09:35	65.7	77.8	0
20200924T094000	2020	09	24	09:40	65.7	78.3	0
20200924T094500	2020	09	24	09:45	66.1	79.8	0
20200924T095000	2020	09	24	09:50	66	79	0
20200924T095500	2020	09	24	09:55	66.2	79	0
20200924T100000	2020	09	24	10:00	66.1	79.3	0
20200924T100500	2020	09	24	10:05	66.1	78.7	0
20200924T101000	2020	09	24	10:10	66.4	75.5	0
20200924T101500	2020	09	24	10:15	66.2	74.2	0
20200924T102000	2020	09	24	10:20	66.4	72.4	0
20200924T102500	2020	09	24	10:25	67	70.5	0
20200924T103000	2020	09	24	10:30	66.4	71	0
20200924T103500	2020	09	24	10:35	66.5	72.6	0
20200924T104000	2020	09	24	10:40	66.2	74.2	0
20200924T104500	2020	09	24	10:45	66.9	73.7	0
20200924T105000	2020	09	24	10:50	66.8	73.7	0
20200924T105500	2020	09	24	10:55	67	73.1	0
20200924T110000	2020	09	24	11:00	66.7	74.2	0
20200924T110500	2020	09	24	11:05	66.6	76.2	0
20200924T111000	2020	09	24	11:10	66.7	75.1	0
20200924T111500	2020	09	24	11:15	67.2	74.2	0
20200924T112000	2020	09	24	11:20	68.3	70.6	0
20200924T112500	2020	09	24	11:25	67.9	70.9	0
20200924T113000	2020	09	24	11:30	67.8	68.6	0
20200924T113500	2020	09	24	11:35	67.7	70.3	0
20200924T114000	2020	09	24	11:40	68.4	69.5	0
20200924T114500	2020	09	24	11:45	69	64.3	0
20200924T115000	2020	09	24	11:50	69.1	66.6	0
20200924T115500	2020	09	24	11:55	69	64.2	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200924T120000	2020	09	24	12:00	69.2	55.6	0
20200924T120500	2020	09	24	12:05	69.3	63.3	0
20200924T121000	2020	09	24	12:10	68.8	63.5	0
20200924T121500	2020	09	24	12:15	69.8	61.2	0
20200924T122000	2020	09	24	12:20	69.2	57.4	0
20200924T122500	2020	09	24	12:25	69.7	53.7	0
20200924T123000	2020	09	24	12:30	70.3	56.3	0
20200924T123500	2020	09	24	12:35	70.4	59.1	0
20200924T124000	2020	09	24	12:40	70.5	62.1	0
20200924T124500	2020	09	24	12:45	69.7	74.9	0
20200924T125000	2020	09	24	12:50	67.9	79	0
20200924T125500	2020	09	24	12:55	67.6	82.1	0
20200924T130000	2020	09	24	13:00	68.2	80.7	0
20200924T130500	2020	09	24	13:05	69.1	78	0
20200924T131000	2020	09	24	13:10	68.2	78.2	0
20200924T131500	2020	09	24	13:15	67.7	79.5	0
20200924T132000	2020	09	24	13:20	67.4	81.8	0
20200924T132500	2020	09	24	13:25	67.5	79.8	0
20200924T133000	2020	09	24	13:30	67	80.6	0
20200924T133500	2020	09	24	13:35	67.5	81.8	0
20200924T134000	2020	09	24	13:40	67.2	81.7	0
20200924T134500	2020	09	24	13:45	67.6	81.8	0
20200924T135000	2020	09	24	13:50	68.8	79	0
20200924T135500	2020	09	24	13:55	69.3	77.4	0
20200924T140000	2020	09	24	14:00	69	76.1	0
20200924T140500	2020	09	24	14:05	69.5	75.2	0
20200924T141000	2020	09	24	14:10	69.5	75.6	0
20200924T141500	2020	09	24	14:15	69.1	76.4	0
20200924T142000	2020	09	24	14:20	69.2	75.5	0
20200924T142500	2020	09	24	14:25	68.8	76.4	0
20200924T143000	2020	09	24	14:30	68.7	76.2	0
20200924T143500	2020	09	24	14:35	69.1	75	0
20200924T144000	2020	09	24	14:40	68.6	76.4	0
20200924T144500	2020	09	24	14:45	68.7	77.2	0
20200924T145000	2020	09	24	14:50	68.8	75.8	0
20200924T145500	2020	09	24	14:55	68.5	76.3	0
20200924T150000	2020	09	24	15:00	68.9	76.5	0
20200924T150500	2020	09	24	15:05	68.7	75.4	0
20200924T151000	2020	09	24	15:10	69	74.8	0
20200924T151500	2020	09	24	15:15	68.9	75	0
20200924T152000	2020	09	24	15:20	68.6	76.6	0
20200924T152500	2020	09	24	15:25	68.7	76.1	0
20200924T153000	2020	09	24	15:30	69.8	75.8	0
20200924T153500	2020	09	24	15:35	69.1	74.9	0
20200924T154000	2020	09	24	15:40	68.5	75.9	0
20200924T154500	2020	09	24	15:45	68.1	76.9	0
20200924T155000	2020	09	24	15:50	67.7	76.8	0
20200924T155500	2020	09	24	15:55	67.4	79.9	0
20200924T160000	2020	09	24	16:00	67.2	81.5	0
20200924T160500	2020	09	24	16:05	67	81.8	0
20200924T161000	2020	09	24	16:10	66.9	83.2	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200924T161500	2020	09	24	16:15	66.8	83	0
20200924T162000	2020	09	24	16:20	66.5	83.4	0
20200924T162500	2020	09	24	16:25	66.6	82.8	0
20200924T163000	2020	09	24	16:30	66.6	81.5	0
20200924T163500	2020	09	24	16:35	66.6	81.6	0
20200924T164000	2020	09	24	16:40	66.4	83.2	0
20200924T164500	2020	09	24	16:45	66.4	83.9	0
20200924T165000	2020	09	24	16:50	66.3	83.8	0
20200924T165500	2020	09	24	16:55	66.2	84.1	0
20200924T170000	2020	09	24	17:00	66.5	84.7	0
20200924T170500	2020	09	24	17:05	66.3	83.8	0
20200924T171000	2020	09	24	17:10	66.5	83.1	0
20200924T171500	2020	09	24	17:15	66.5	82.9	0
20200924T172000	2020	09	24	17:20	66.4	84.1	0
20200924T172500	2020	09	24	17:25	66.2	85.1	0
20200924T173000	2020	09	24	17:30	66	85.5	0
20200924T173500	2020	09	24	17:35	66.1	85.1	0
20200924T174000	2020	09	24	17:40	65.9	85.4	0
20200924T174500	2020	09	24	17:45	65.7	86.1	0
20200924T175000	2020	09	24	17:50	65.6	86.8	0
20200924T175500	2020	09	24	17:55	65.5	87.4	0
20200924T180000	2020	09	24	18:00	65.6	87.6	0
20200924T180500	2020	09	24	18:05	65.3	88.5	0
20200924T181000	2020	09	24	18:10	65.1	89.1	0
20200924T181500	2020	09	24	18:15	65	89.7	0
20200924T182000	2020	09	24	18:20	64.7	90.2	0
20200924T182500	2020	09	24	18:25	64.5	91	0
20200924T183000	2020	09	24	18:30	64.3	91.7	0
20200924T183500	2020	09	24	18:35	63.4	91.4	0
20200924T184000	2020	09	24	18:40	63.2	92.3	0
20200924T184500	2020	09	24	18:45	63.3	93.7	0
20200924T185000	2020	09	24	18:50	63.2	94.5	0
20200924T185500	2020	09	24	18:55	62.9	95	0
20200924T190000	2020	09	24	19:00	62.7	95.2	0
20200924T190500	2020	09	24	19:05	62	94.7	0
20200924T191000	2020	09	24	19:10	62	96.1	0
20200924T191500	2020	09	24	19:15	62.4	96.6	0
20200924T192000	2020	09	24	19:20	62.3	96.2	0
20200924T192500	2020	09	24	19:25	62.5	96.6	0
20200924T193000	2020	09	24	19:30	62.4	96.5	0
20200924T193500	2020	09	24	19:35	62.4	96.2	0
20200924T194000	2020	09	24	19:40	62.5	95.9	0
20200924T194500	2020	09	24	19:45	62	95.3	0
20200924T195000	2020	09	24	19:50	61.8	95.7	0
20200924T195500	2020	09	24	19:55	61.6	96.2	0
20200924T200000	2020	09	24	20:00	62	96.6	0
20200924T200500	2020	09	24	20:05	61.5	95.6	0
20200924T201000	2020	09	24	20:10	61.7	96.1	0
20200924T201500	2020	09	24	20:15	61.8	94.9	0
20200924T202000	2020	09	24	20:20	61.5	94.6	0
20200924T202500	2020	09	24	20:25	61.2	94.3	0

Table C-1: Summer SUNY MesoNet Meteorological Data (Cape Vincent Station)

Raw Date/Time	Year	Month	Day	Time	Temperature [F]	Relative Humidity [%]	Precipitation [in]
20200924T203000	2020	09	24	20:30	60.8	94.6	0
20200924T203500	2020	09	24	20:35	60.7	95.6	0
20200924T204000	2020	09	24	20:40	60.9	96.6	0
20200924T204500	2020	09	24	20:45	60.4	96.7	0
20200924T205000	2020	09	24	20:50	59.8	96.5	0
20200924T205500	2020	09	24	20:55	59.6	96.9	0
20200924T210000	2020	09	24	21:00	59.2	97.2	0
20200924T210500	2020	09	24	21:05	58.8	97.4	0
20200924T211000	2020	09	24	21:10	58.8	97.7	0
20200924T211500	2020	09	24	21:15	58.7	98.2	0
20200924T212000	2020	09	24	21:20	57.7	98	0
20200924T212500	2020	09	24	21:25	58.1	98.5	0
20200924T213000	2020	09	24	21:30	57.8	98.6	0
20200924T213500	2020	09	24	21:35	57.7	98.8	0
20200924T214000	2020	09	24	21:40	58.1	99.1	0
20200924T214500	2020	09	24	21:45	59	99.4	0
20200924T215000	2020	09	24	21:50	59.2	98.9	0
20200924T215500	2020	09	24	21:55	59.5	97.2	0
20200924T220000	2020	09	24	22:00	59.9	94.3	0
20200924T220500	2020	09	24	22:05	59.7	92.9	0
20200924T221000	2020	09	24	22:10	59.4	92.6	0
20200924T221500	2020	09	24	22:15	59.7	91.7	0
20200924T222000	2020	09	24	22:20	59.5	91	0
20200924T222500	2020	09	24	22:25	59	90.9	0
20200924T223000	2020	09	24	22:30	58.5	91.9	0
20200924T223500	2020	09	24	22:35	58.6	91.6	0
20200924T224000	2020	09	24	22:40	58.7	91.3	0
20200924T224500	2020	09	24	22:45	58.8	91.2	0
20200924T225000	2020	09	24	22:50	58.6	90.9	0
20200924T225500	2020	09	24	22:55	58.2	91.6	0
20200924T230000	2020	09	24	23:00	58.2	92.5	0
20200924T230500	2020	09	24	23:05	58.4	92.5	0
20200924T231000	2020	09	24	23:10	58.6	92.3	0
20200924T231500	2020	09	24	23:15	58.6	91.8	0
20200924T232000	2020	09	24	23:20	58.2	92	0
20200924T232500	2020	09	24	23:25	57.9	92.5	0
20200924T233000	2020	09	24	23:30	57.6	93.1	0
20200924T233500	2020	09	24	23:35	58.2	92.4	0
20200924T234000	2020	09	24	23:40	58.1	92.1	0
20200924T234500	2020	09	24	23:45	58.1	91.7	0
20200924T235000	2020	09	24	23:50	58	91.5	0
20200924T235500	2020	09	24	23:55	58.3	90.5	0