September 10, 2019   File No. 5725-10

Orbach, Huff, Suarez & Henderson, LLP
1901 Avenue of the Stars, Ste 575
Los Angeles, CA 90067

Attention: Mr. Stan Barankiewicz II, Esq.

Subject: **INVESTIGATION OF RELATIVE HUMIDITY, TEMPERATURE, AND DEW POINT**
                Bridgeport Elementary School
                23670 Newhall Ranch Road
                Santa Clarita, California

Dear Mr. Barankiewicz,

The undersigned at American Geotechnical appreciated the opportunity to work with you and the school district in evaluating environmental conditions within six classrooms at the Bridgeport school. Paralleling our work monitoring temperature and relative humidity, vapor emission testing at the slab level was conducted by others. It is understood that there has been some concern about potential mold development in the classrooms.

Accompanying this brief report are our findings for the six individual classrooms along with each classroom identified in sketch form, location of each monitoring instrument indicated. That information is followed by charts of the results of each instrument in each classroom. Thereafter, for each instrument, there is a separate table with statistical analyses of the data. For relative humidity, temperature, and dew point (for a given relative humidity, the temperature at or below which condensation can be expected), means, standard deviation and the 95 percent confidence level upper and lower boundary values are given.

Generally, we find favorable conditions. Mold is a micro biological fungus growth damaging to building contents and potentially harmful to human health. Mold generally requires organic food source which can include numerous construction materials as well as a conducive moisture and temperature environment. The degrees of relative humidity and temperature over which mold can occur is a complex problem, however generally speaking, mold would not be expected in typical classroom environments where relative humidity in generally less than about 50 percent and temperatures are generally less than about 75 degrees. Also, to develop mold, fairly persistent, problematic conditions would need to exist.

American Geotechnical, Inc.

The analysis of the results in each classroom indicates typical variations of a day with no persistent unfavorable conditions. Accordingly, it is this consultant's conclusion that what we found during the course of our study were environmental conditions that were not conducive mold development. Relative humidity, temperature, and dew-point charts for each instrument in each classroom accompany this report. You will see in those charts that the dew-point temperature is consistently below the ambient temperature. Accordingly, condensation moisture would not be expected. During the latter half of the monitoring period, teachers entered classrooms to prepare for the school year. With air conditioning running during those periods, relative humidity and temperature are even lower making fungus/mold growth even less likely.

As for recommendations, we advise that all carpet be breathable. Existing rooms with non-breathable carpet should be removed and replaced as soon as practical. Breathable carpet should work acceptably for VET Valves of up to about 5#/1000 ft^2/day. Since all of the Godfrey VET results were less than 5#/1000 ft2/day, the probability of any future microbial growth problem is low. Out of an abundance of caution, you could plan on using a slab seal prior to placement of new carpet for floors not previously sealed. A pore blocking solution, such as Sinak S-102, which is relatively inexpensive, can be expected to cut vapor emissions by about half when applied per the manufacturers specifications (e.g., from this consultant's experience a 4#/1000 ft^2/day result will lower to about 2#/1000 ft^2/day). At this lower rate, the floors would be suitable to receive any vinyl floor product and/or any breathable carpet material without any significant risk of moisture related problems. The use of a more expensive, high-end polymer sealer such as the UZIN sealer which has already been used in some classrooms should lower the vapor emissions rate to about 1#/1000 ft^2/day or less.

I hope that you find this information useful. Should you have any questions, please do not hesitate to contact our office.
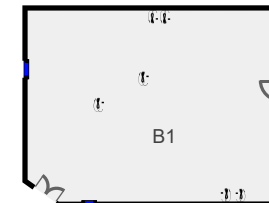
Respectfully submitted,
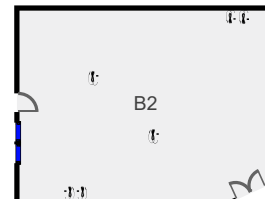
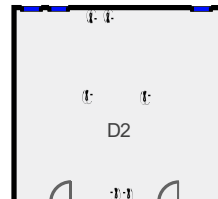AMERICAN GEOTECHNICAL, INC.

Gregory W. Axten
Principal Engineer/CEO
G.E. 103

Enclosure: Appendix A – RH and Temperature Monitoring
Distribution: Addressee (Email: sbarankiewicz@ohshlaw.com)

Bridgeport Elementary Temp/RH Report
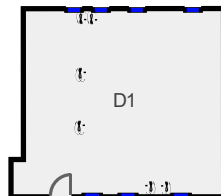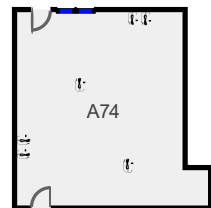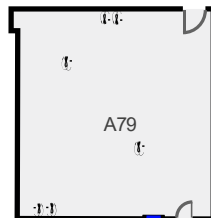
Classroom: A79
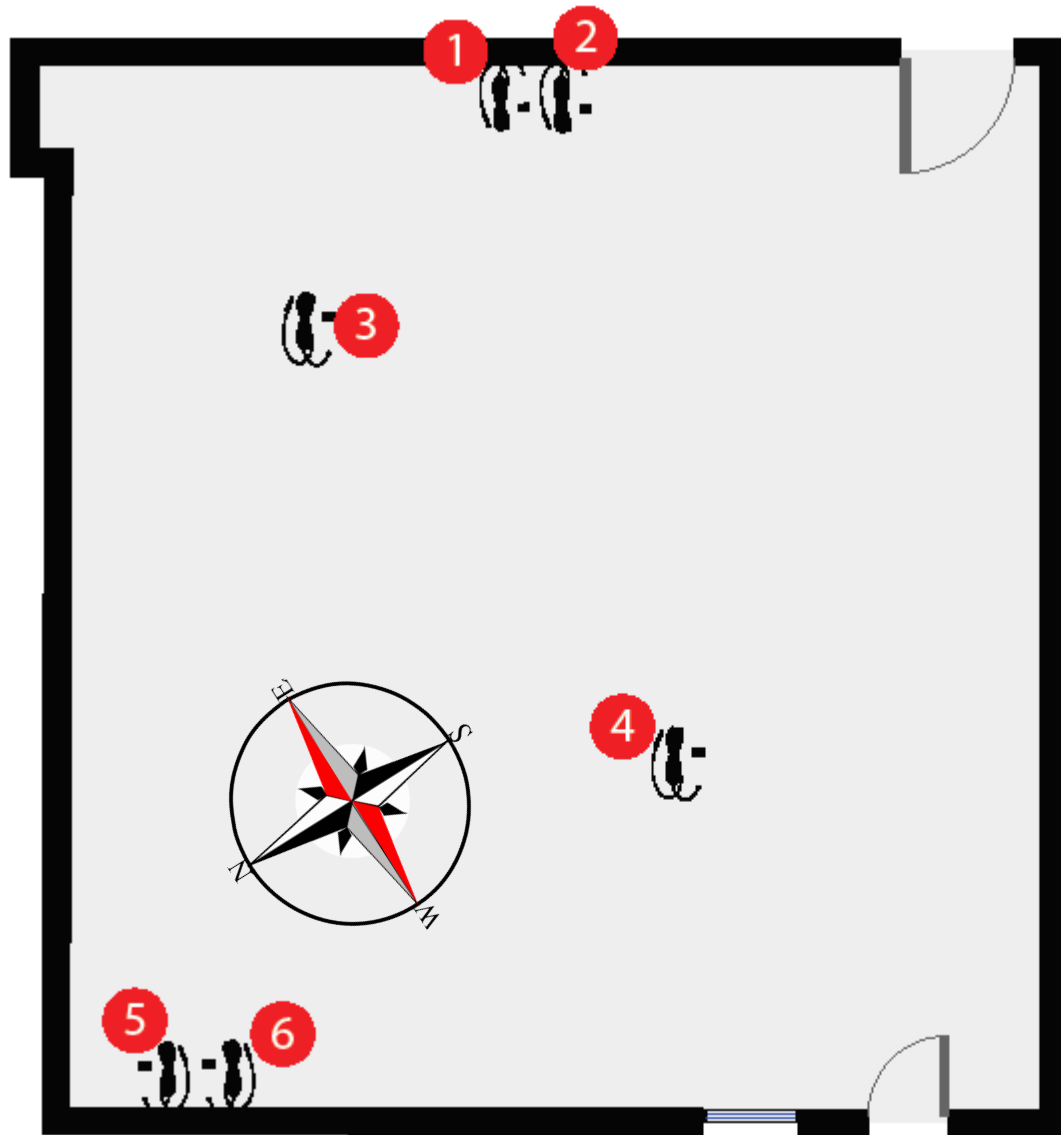
Sensor Name / Location

1. **A79-E-3FT**

2. **A79-E-6FT**

3. **A79-EF-0FT**

4. **A79-SF-0FT**

5. **A79-W-3FT**

6. **A79-W-6FT**

A79

Bridgeport - A79 - E3FT

Temperature, °F (Monitoring Station A79-E-3FT)
RH, % (Monitoring Station A79-E-3FT)
Dew Point, °F (Monitoring Station A79-E-3FT)

Time

07/22/19 12:00:00 AM GMT-07:00

08/12/19 12:00:00 AM GMT-07:00
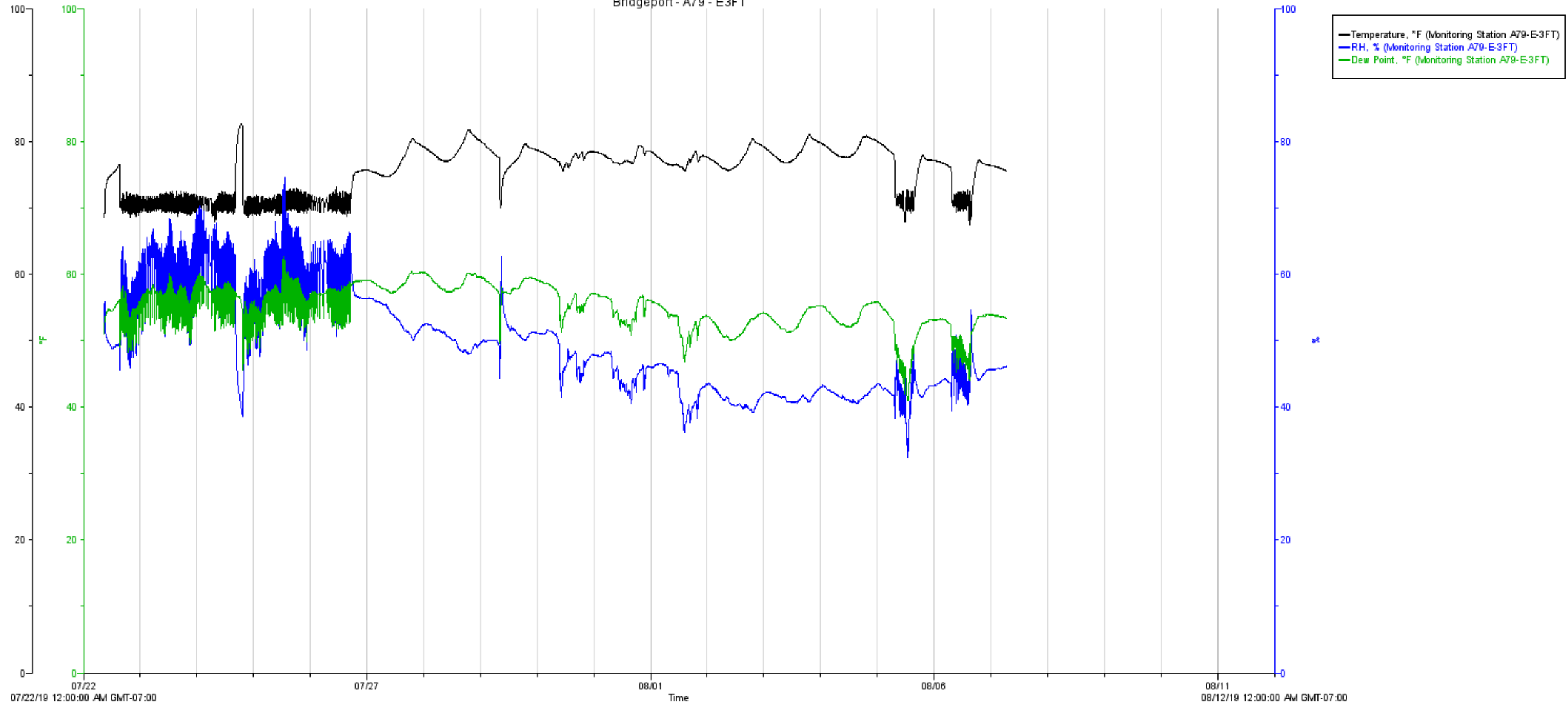
Bridgeport - A79 - E6FT

A79 ③
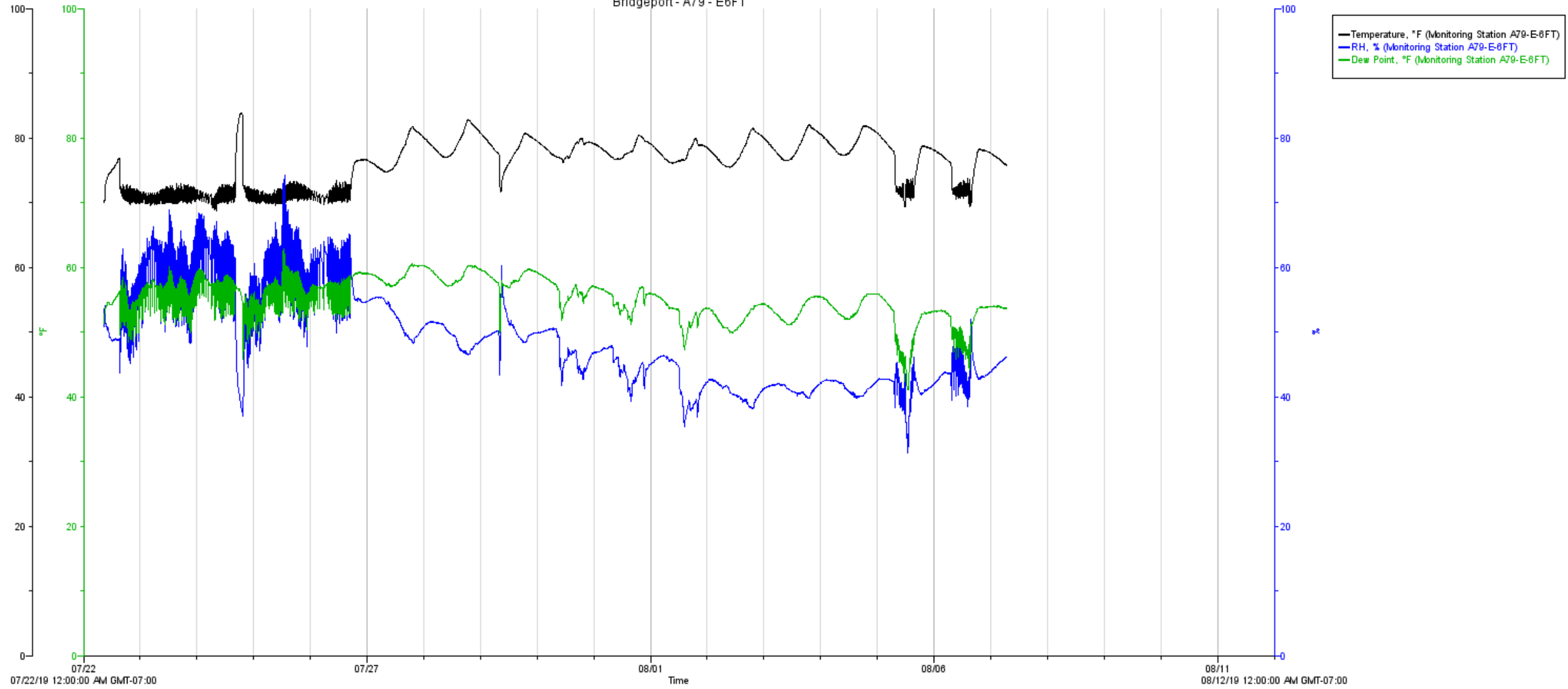
Bridgeport - A79 - EF0FT

A79 ④
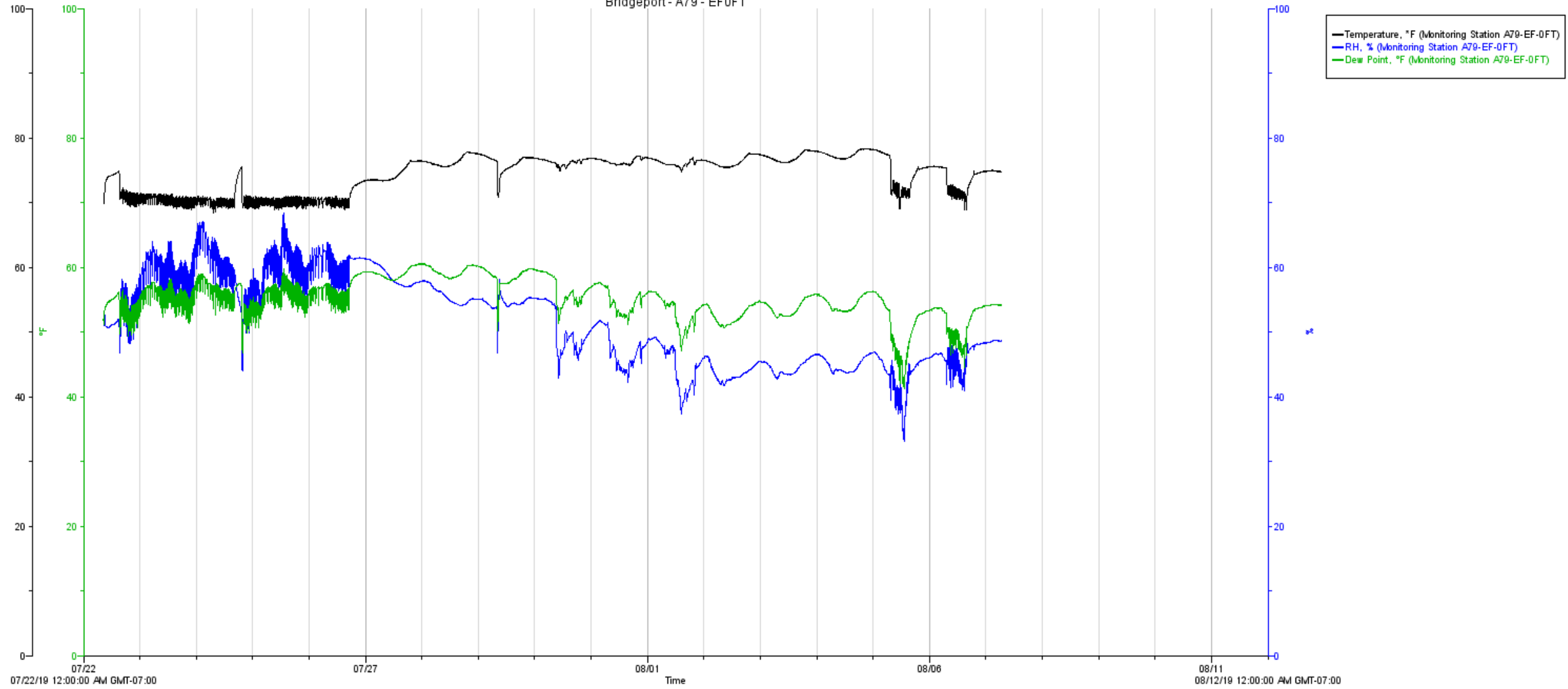
Bridgeport - A79 - SF0FT

A79 (5)
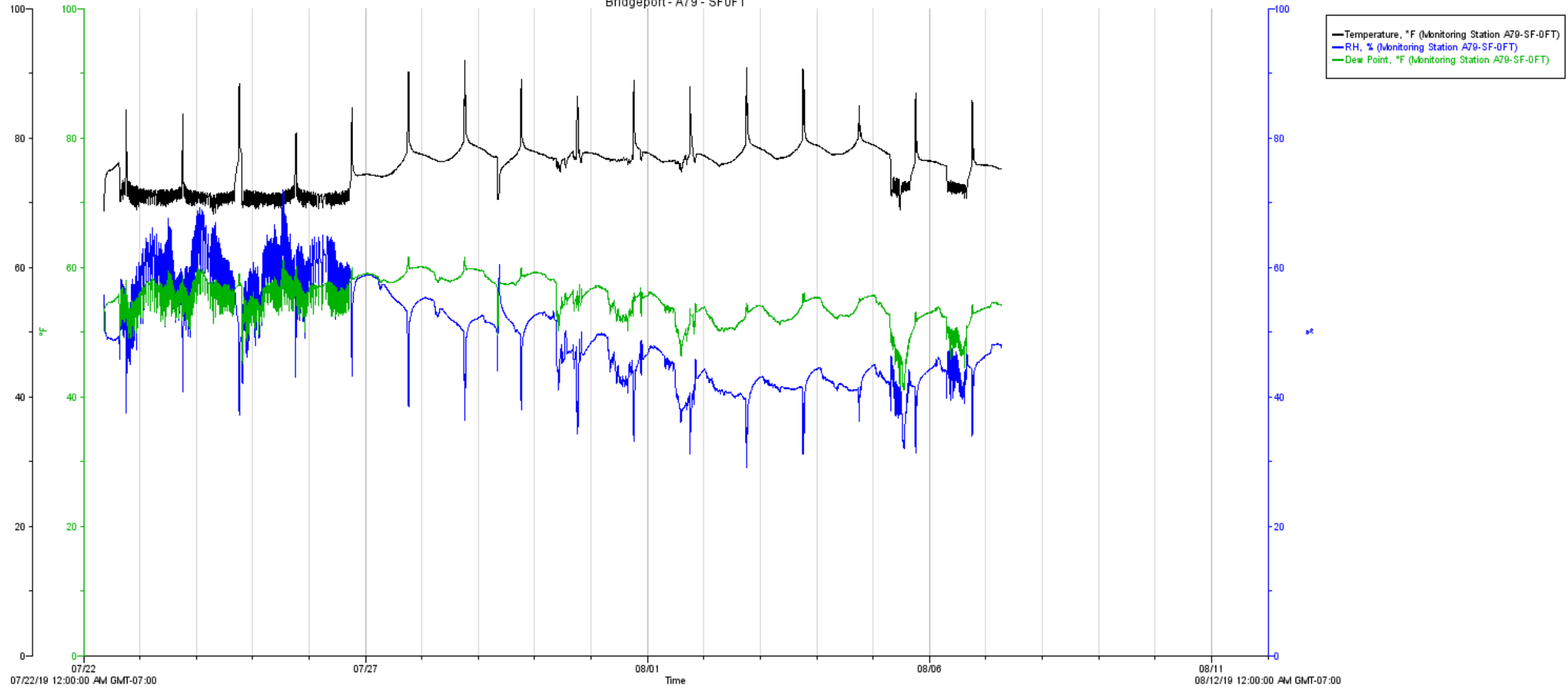
Bridgeport - A79 - W3FT
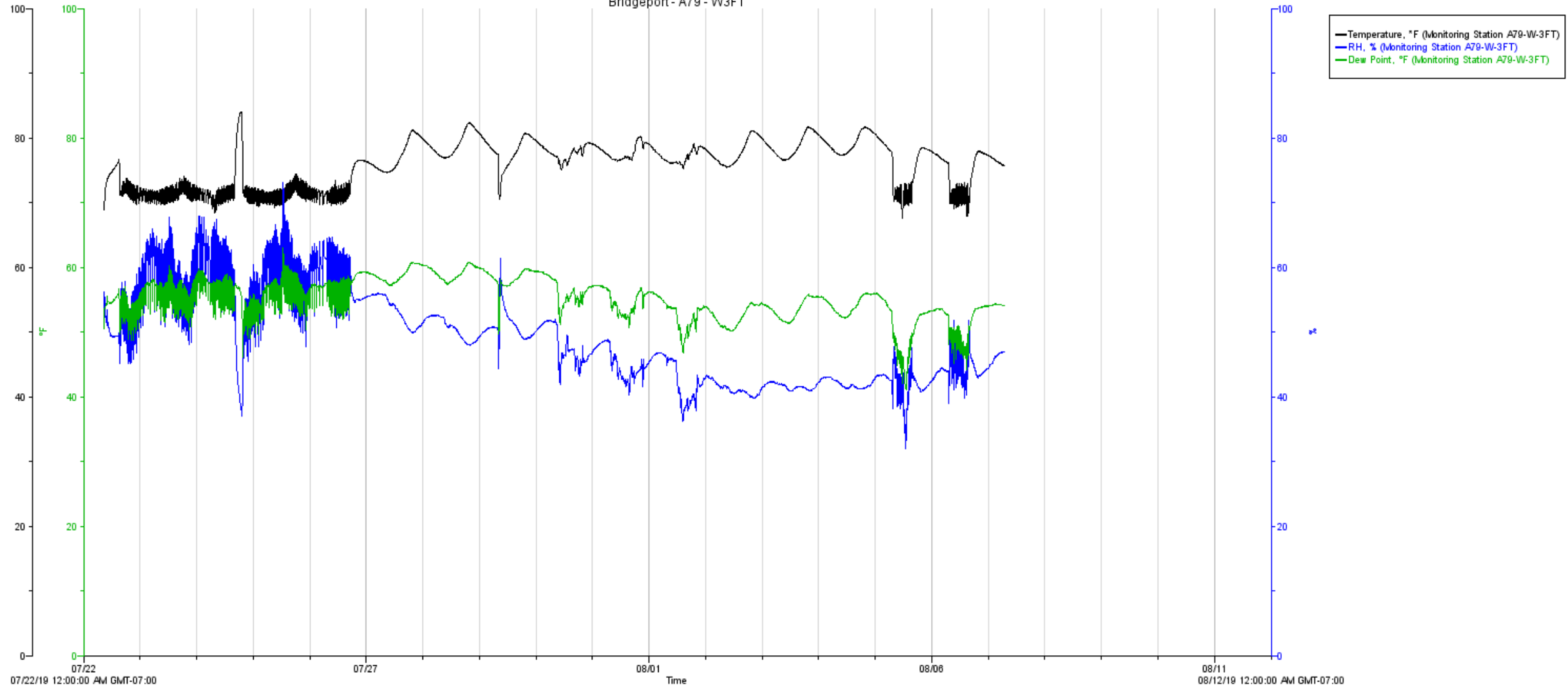
Bridgeport - A79 - W6FT
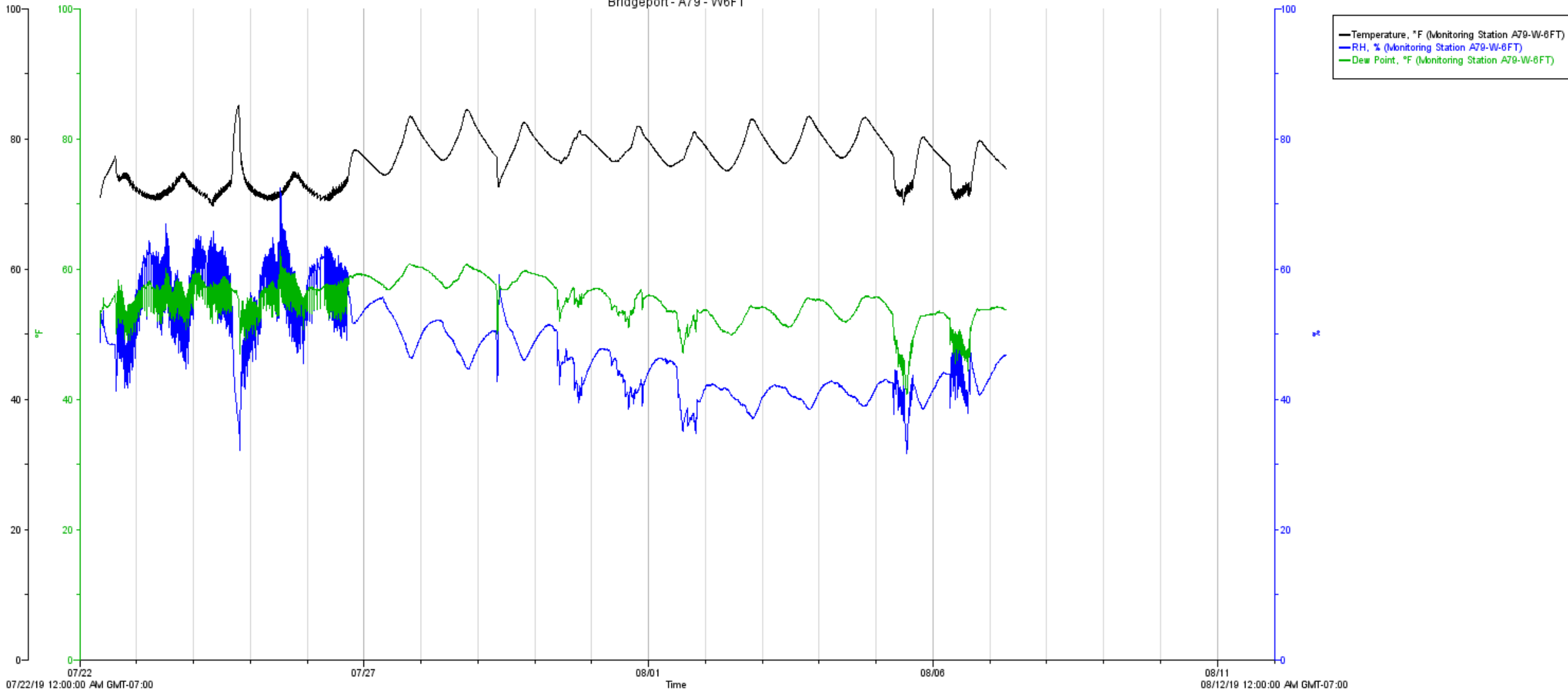
Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station A79-E-3FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4582	4582	4582
Maxmum	82.65	74.49	62.7
Minimum	67.48	32.42	40.9
Mean	75.55	49.48	55.04
Standard Deviation	3.54	7.66	3.20
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	77.51	51.44	57.00
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	73.59	47.52	53.08

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station A79-E-6FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4581	4581	4581
Maxmum	83.81	74.19	62.8
Minimum	68.75	31.28	41
Mean	76.12	48.69	55.11
Standard Deviation	3.63	7.59	3.14
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	78.08	50.65	57.07
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	74.16	46.73	53.15

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station A79-EF-0FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4581	4581	4583
Maxmum	78.33	68.4	60.5
Minimum	68.4	33.02	41.2
Mean	74.37	51.71	55.23
Standard Deviation	2.82	7.00	3.08
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	76.33	53.67	57.19
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	72.41	49.75	53.27

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station A79-SF-0FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4581	4581	4582
Maxmum	92	72.02	61.6
Minimum	68.25	29.07	41.1
Mean	75.43	49.58	54.98
Standard Deviation	3.33	7.61	3.16
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	77.39	51.54	56.94
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	73.47	47.62	53.02

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station A79-W-3FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4581	4581	4582
Maxmum	84.04	73.08	63
Minimum	67.63	31.92	41.1
Mean	75.95	49.05	55.19
Standard Deviation	3.49	7.17	3.17
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	77.91	51.01	57.15
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	73.99	47.09	53.23

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station A79-W-6FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4581	4581	4582
Maxmum	85.05	72.5	62.8
Minimum	69.64	31.61	40.8
Mean	76.71	47.68	55.09
Standard Deviation	3.59	7.15	3.16
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	78.67	49.64	57.05
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	74.75	45.72	53.13

Classroom: A74
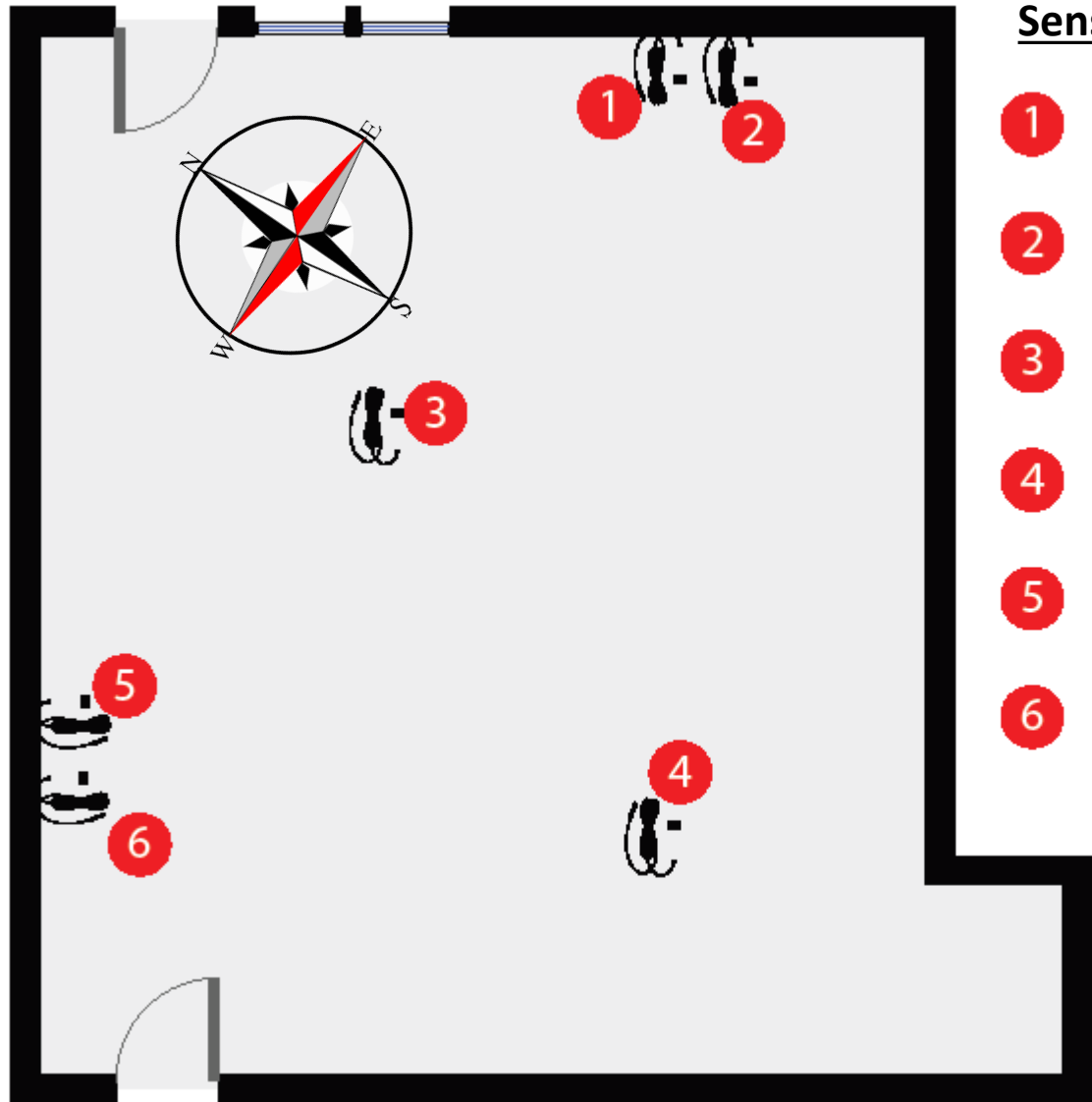
Sensor Name / Location

1	**A74-E-3FT**
2	**A74-E-6FT**
3	**A74-NF-0FT**
4	**A74-WF-0FT**
5	**A74-N-3FT**
6	**A74-N-6FT**

A74 ①

Bridgeport - A74 - E3FT

Legend:
- Temperature, °F (Monitoring Station A74-E-3FT)
- RH, % (Monitoring Station A74-E-3FT)
- Dew Point, °F (Monitoring Station A74-E-3FT)

07/22/19 12:00:00 AM GMT-07:00

08/12/19 12:00:00 AM GMT-07:00

Time
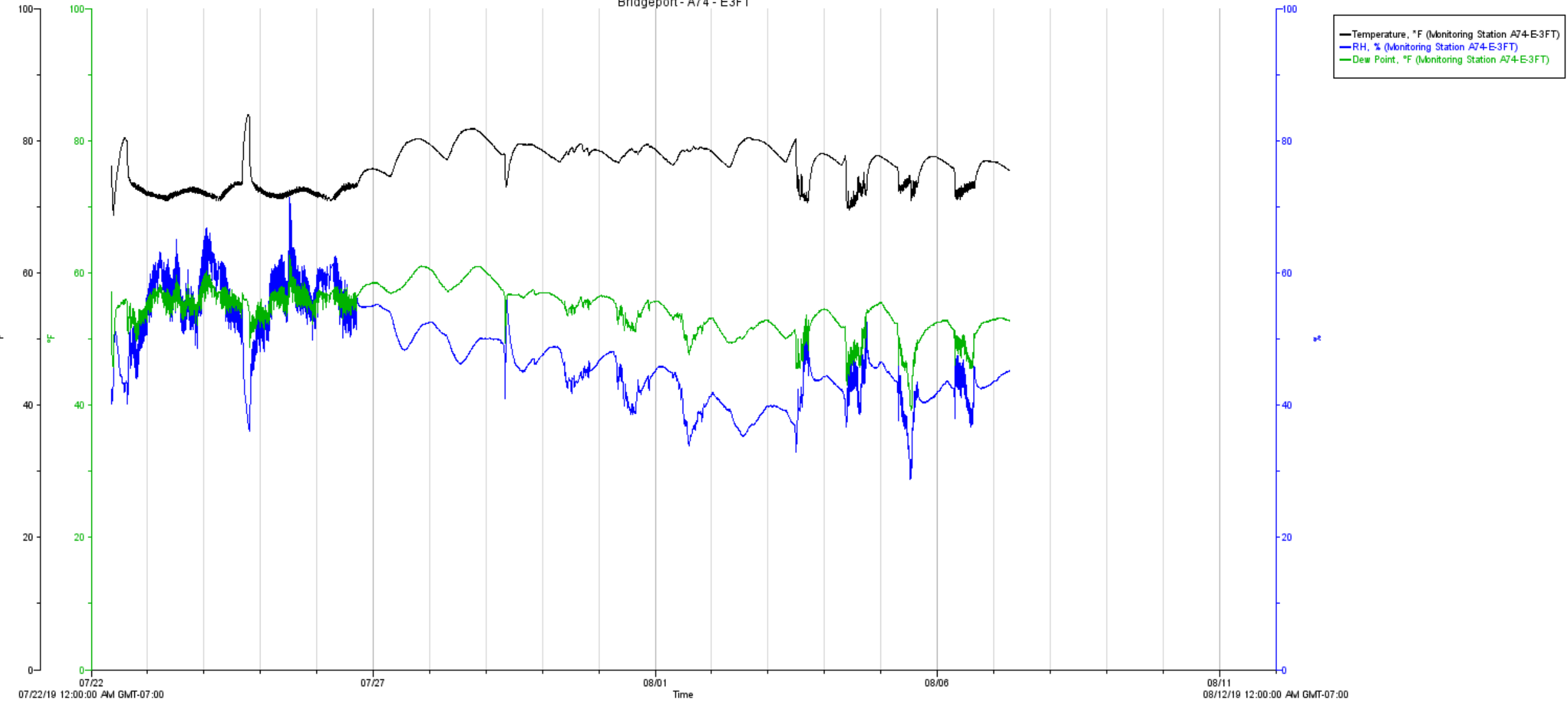
A74 ②

Bridgeport - A74 - E6FT

Temperature, °F (Monitoring Station A74-E-6FT)
RH, % (Monitoring Station A74-E-6FT)
Dew Point, °F (Monitoring Station A74-E-6FT)

Time

07/22/19 12:00:00 AM GMT-07:00

08/12/19 12:00:00 AM GMT-07:00
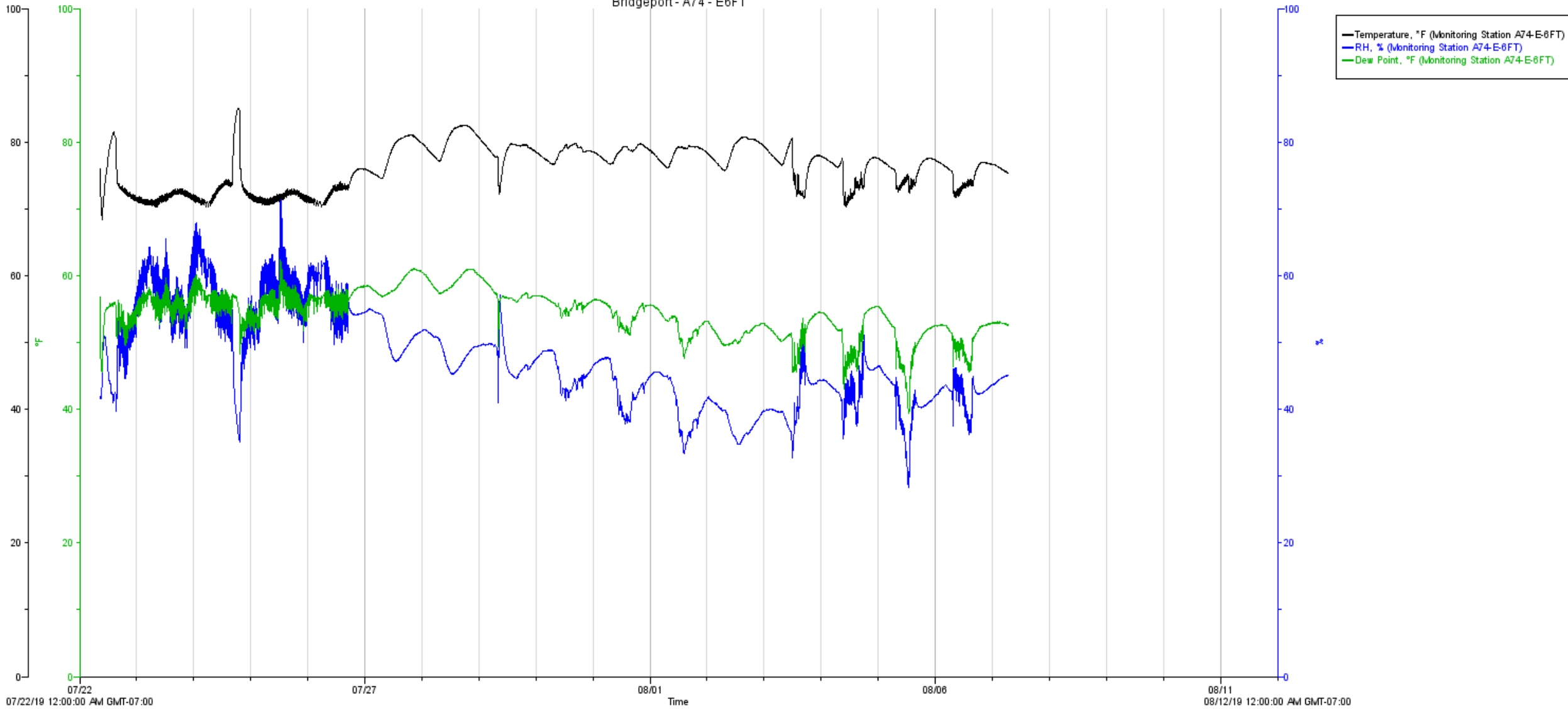
Bridgeport - A74 - NF0FT

A74 ④

Bridgeport - A74 - WF0FT

- Temperature, °F (Monitoring Station A74-WF-0FT)
- RH, % (Monitoring Station A74-WF-0FT)
- Dew Point, °F (Monitoring Station A74-WF-0FT)

07/22/19 12:00:00 AM GMT-07:00

08/12/19 12:00:00 AM GMT-07:00

Time
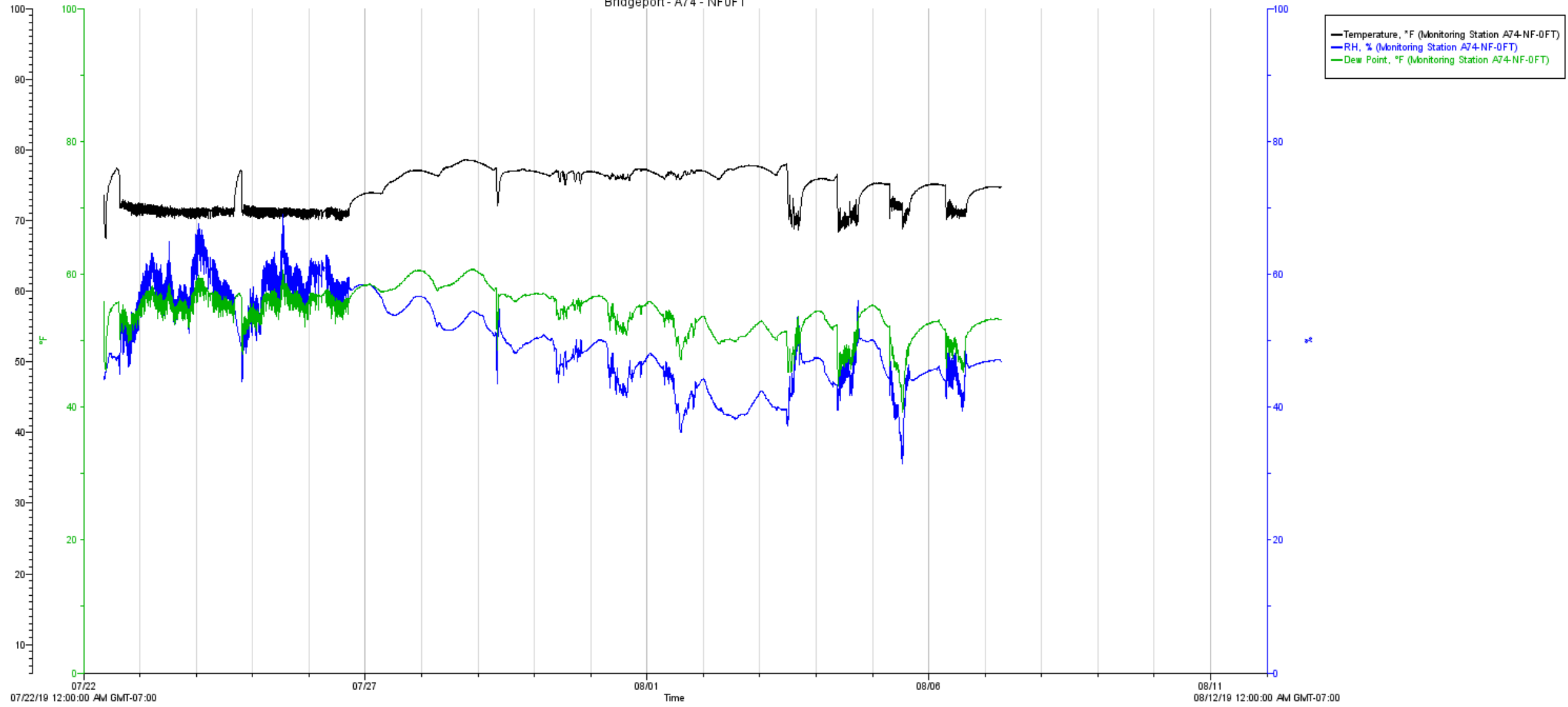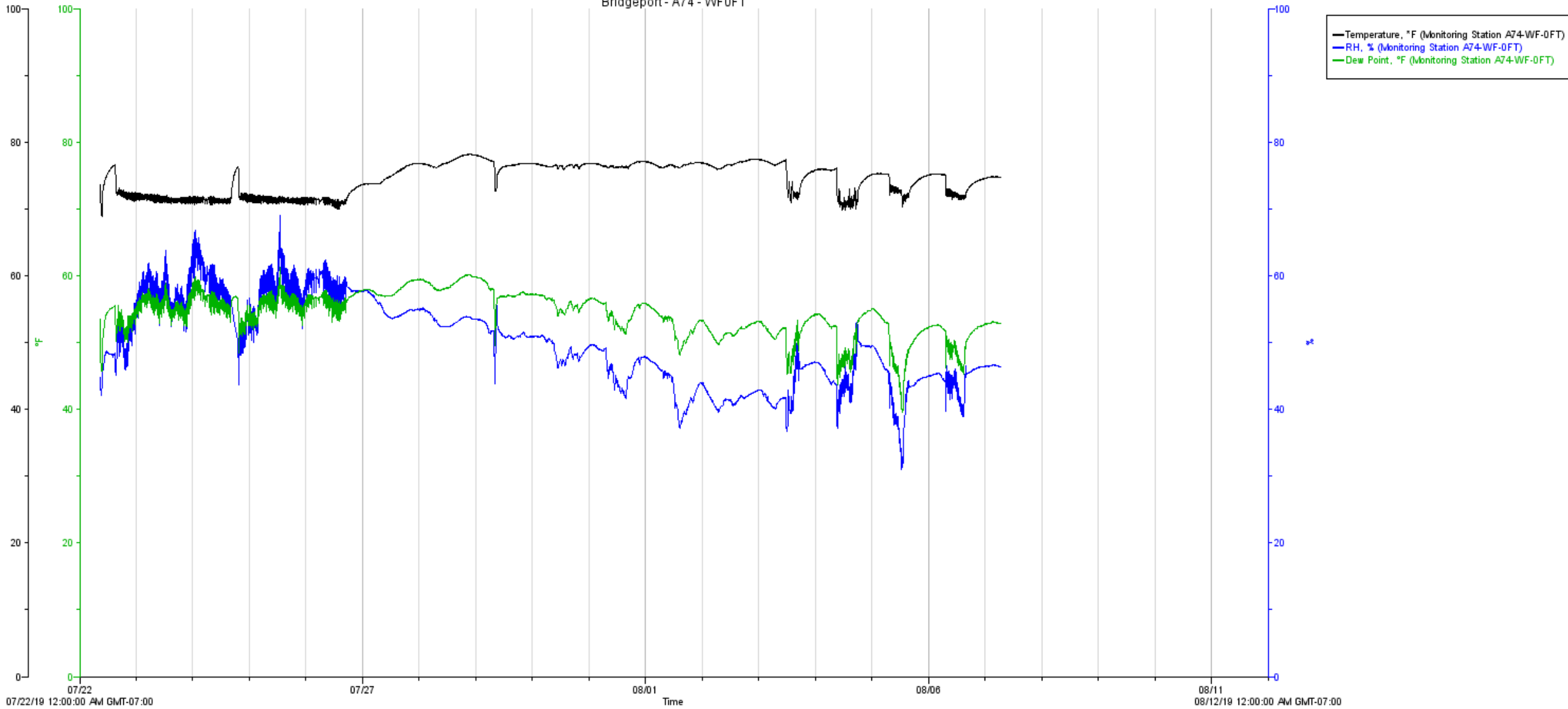
A74 5

Bridgeport - A74 - N3FT
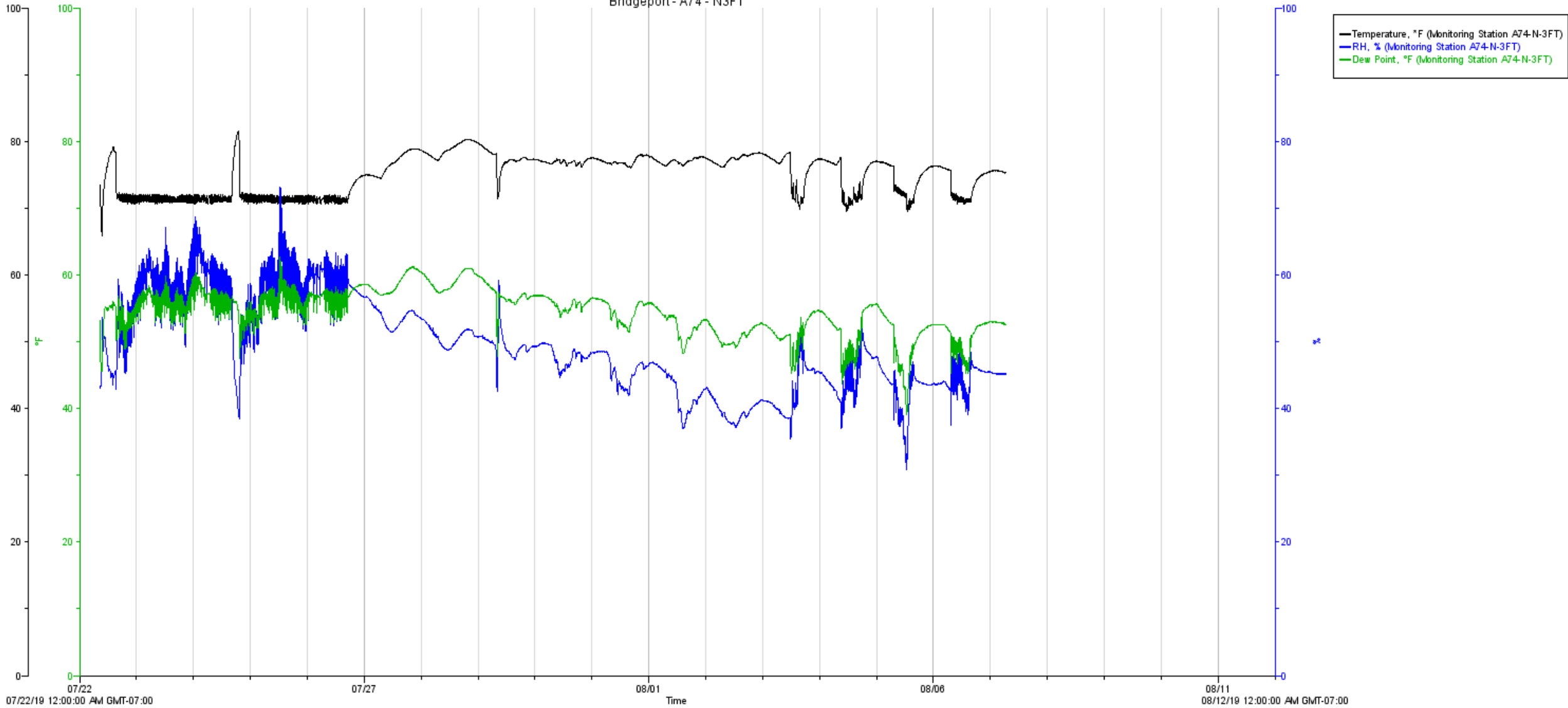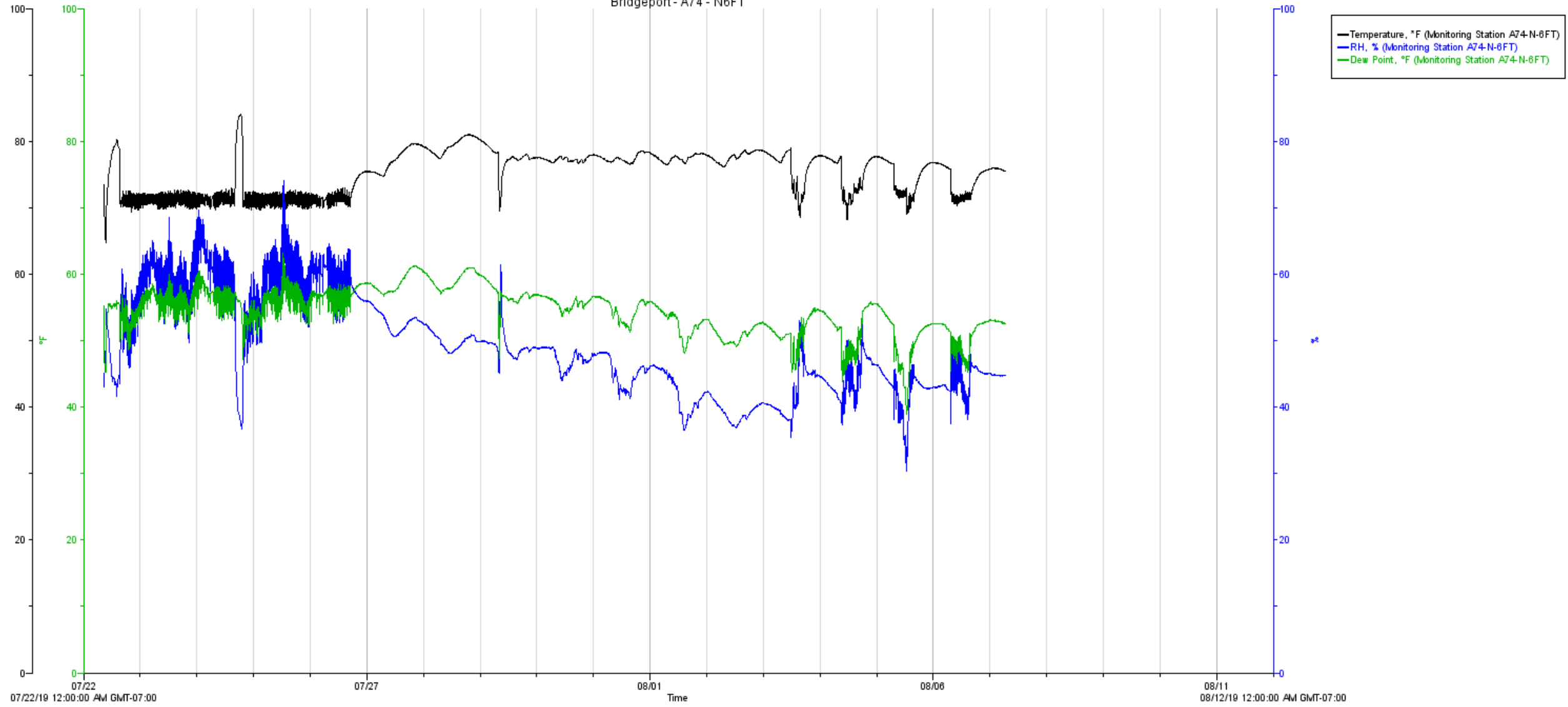
Temperature, °F (Monitoring Station A74-N-3FT)
RH, % (Monitoring Station A74-N-3FT)
Dew Point, °F (Monitoring Station A74-N-3FT)

07/22/19 12:00:00 AM GMT-07:00

Time

08/12/19 12:00:00 AM GMT-07:00

Bridgeport - A74 - N6FT

Temperature, °F (Monitoring Station A74-N-6FT)
RH, % (Monitoring Station A74-N-6FT)
Dew Point, °F (Monitoring Station A74-N-6FT)

A74 6

07/22/19 12:00:00 AM GMT-07:00

08/12/19 12:00:00 AM GMT-07:00

Time

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station A74-E-3FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4581	4581	4582
Maxmum	83.89	71.38	62.7
Minimum	68.75	28.74	39.2
Mean	76.08	47.58	54.47
Standard Deviation	3.08	7.07	3.47
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	78.04	49.54	56.43
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	74.12	45.62	52.51

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station A74-E-6FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4581	4581	4582
Maxmum	85.08	71.34	62.4
Minimum	68.44	28.35	39.4
Mean	76.20	47.46	54.48
Standard Deviation	3.28	7.33	3.45
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	78.16	49.42	56.44
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	74.24	45.50	52.52

September 2019

Statistical Analyses of Temperature, Relative Humidity and Dew Point

Monitoring Station A74-N-3FT			
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4581	4581	4582
Maxmum	81.53	73.13	62.7
Minimum	65.89	30.84	39.1
Mean	75.07	49.27	54.53
Standard Deviation	2.91	7.08	3.48
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	77.03	51.23	56.49
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	73.11	47.31	52.57

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station A74-N-6FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4581	4581	4582
Maxmum	84	74.15	63.2
Minimum	64.74	30.3	38.9
Mean	75.35	48.94	54.56
Standard Deviation	3.21	7.40	3.50
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	77.31	50.90	56.52
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	73.39	46.98	52.60

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station A74-NF-0FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4581	4581	4582
Maxmum	78.64	68.94	60.7
Minimum	67.44	31.44	39.3
Mean	74.49	49.93	54.40
Standard Deviation	2.63	6.69	3.44
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	76.45	51.89	56.36
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	72.53	47.97	52.44

5725-01 Bridgeport Elementary School

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station A74-WF-0FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4581	4581	4582
Maxmum	78.17	69.08	61.2
Minimum	68.91	30.94	39.5
Mean	74.48	49.88	54.38
Standard Deviation	2.35	6.49	3.30
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	76.44	51.84	56.34
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	72.52	47.92	52.42

Classroom: D1
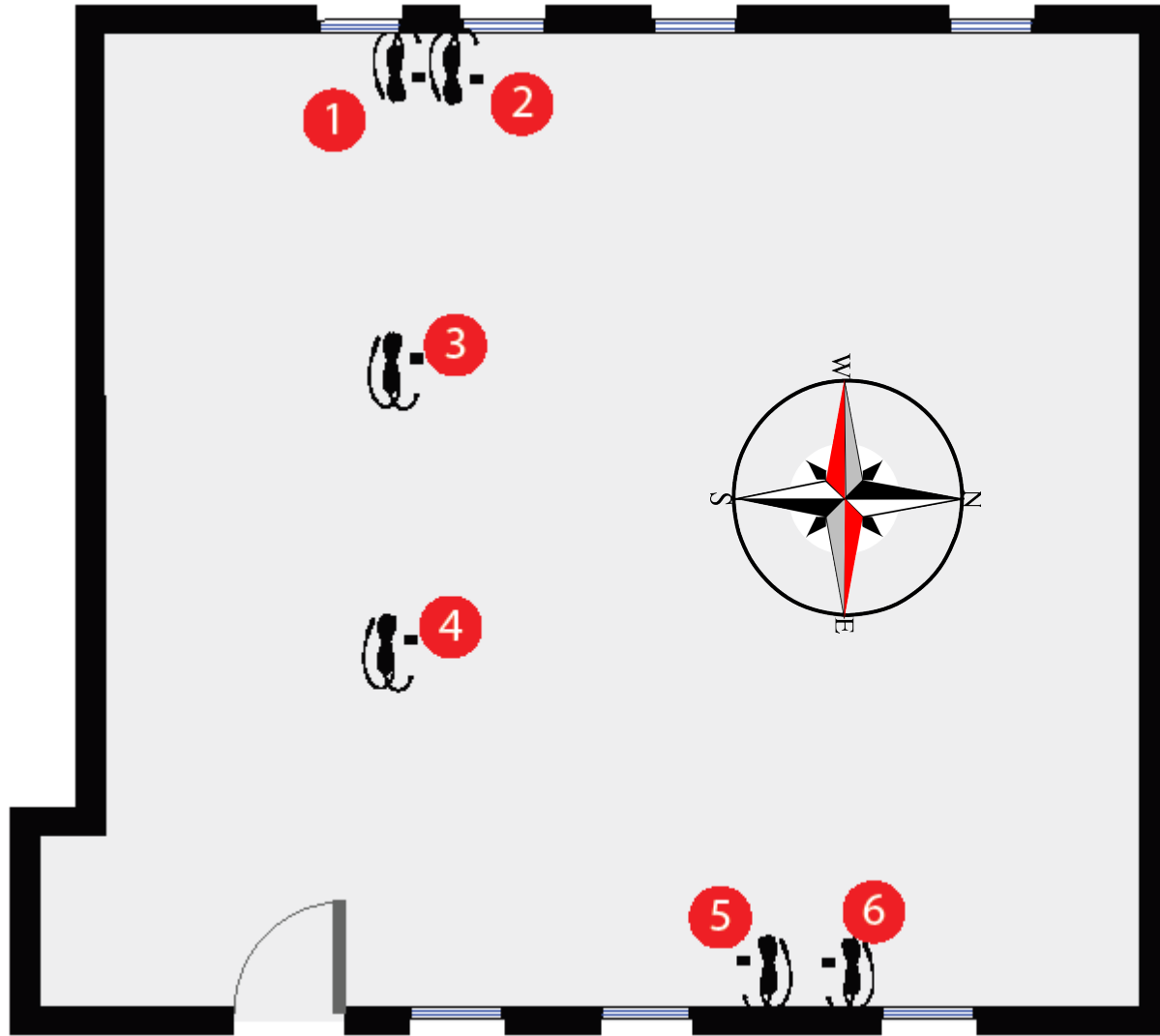
Sensor Name / Location

1. D1-W-3FT

2. D1-W-6FT

3. D1-CF1-0FT (Device did not connect, no data)

4. D1-CF2-0FT

5. D1-E-3FT

6. D1-E-6FT

D1 ①

Bridgeport - D1 - W3FT

Temperature, °F (Monitoring Station D1-W-3FT)
RH, % (Monitoring Station D1-W-3FT)
Dew Point, °F (Monitoring Station D1-W-3FT)

07/22/19 12:00:00 AM GMT-07:00

08/12/19 12:00:00 AM GMT-07:00

Time

D1 2

Bridgeport - D1 - W6FT

Temperature, °F (Monitoring Station D1-W-6FT)
RH, % (Monitoring Station D1-W-6FT)
Dew Point, °F (Monitoring Station D1-W-6FT)

07/22/19 12:00:00 AM GMT-07:00

08/12/19 12:00:00 AM GMT-07:00

Time

D1 3
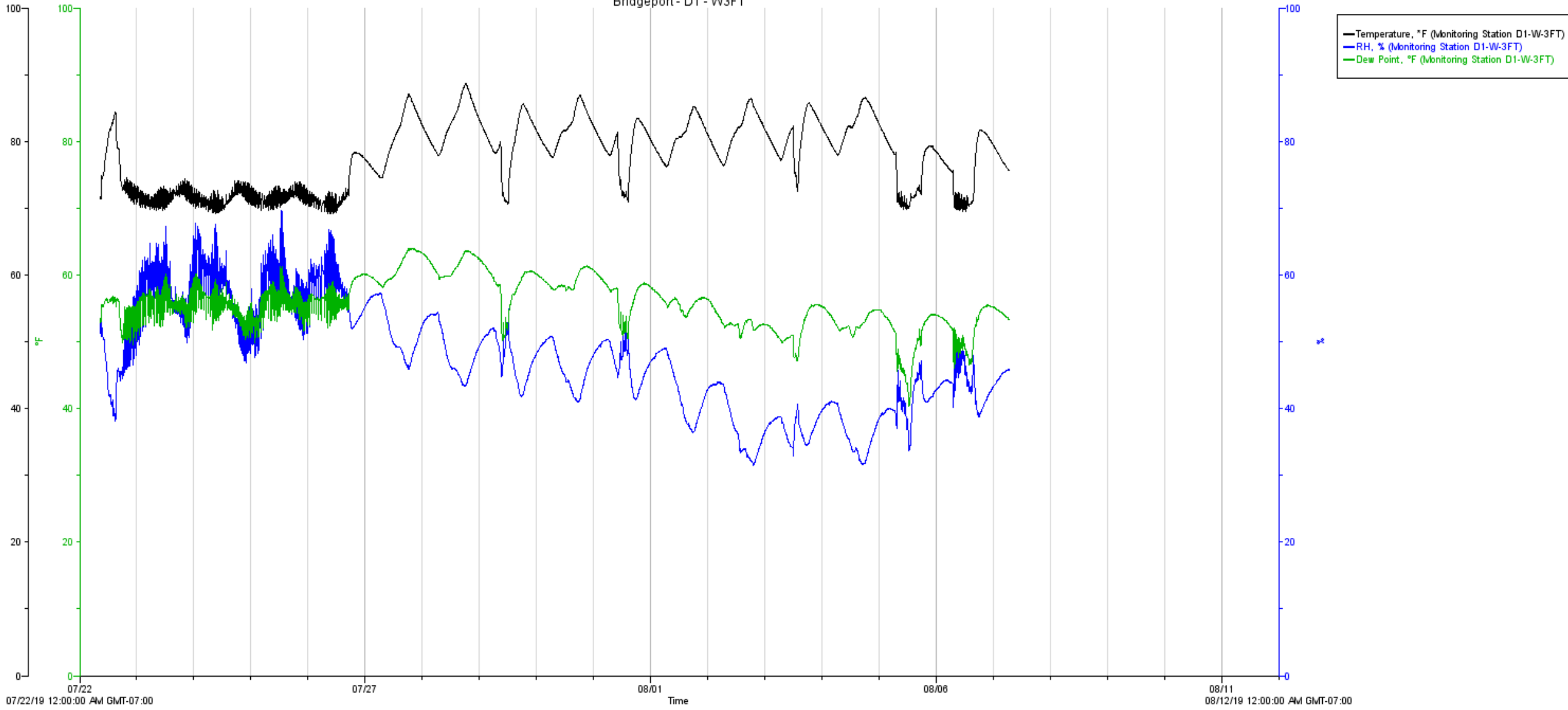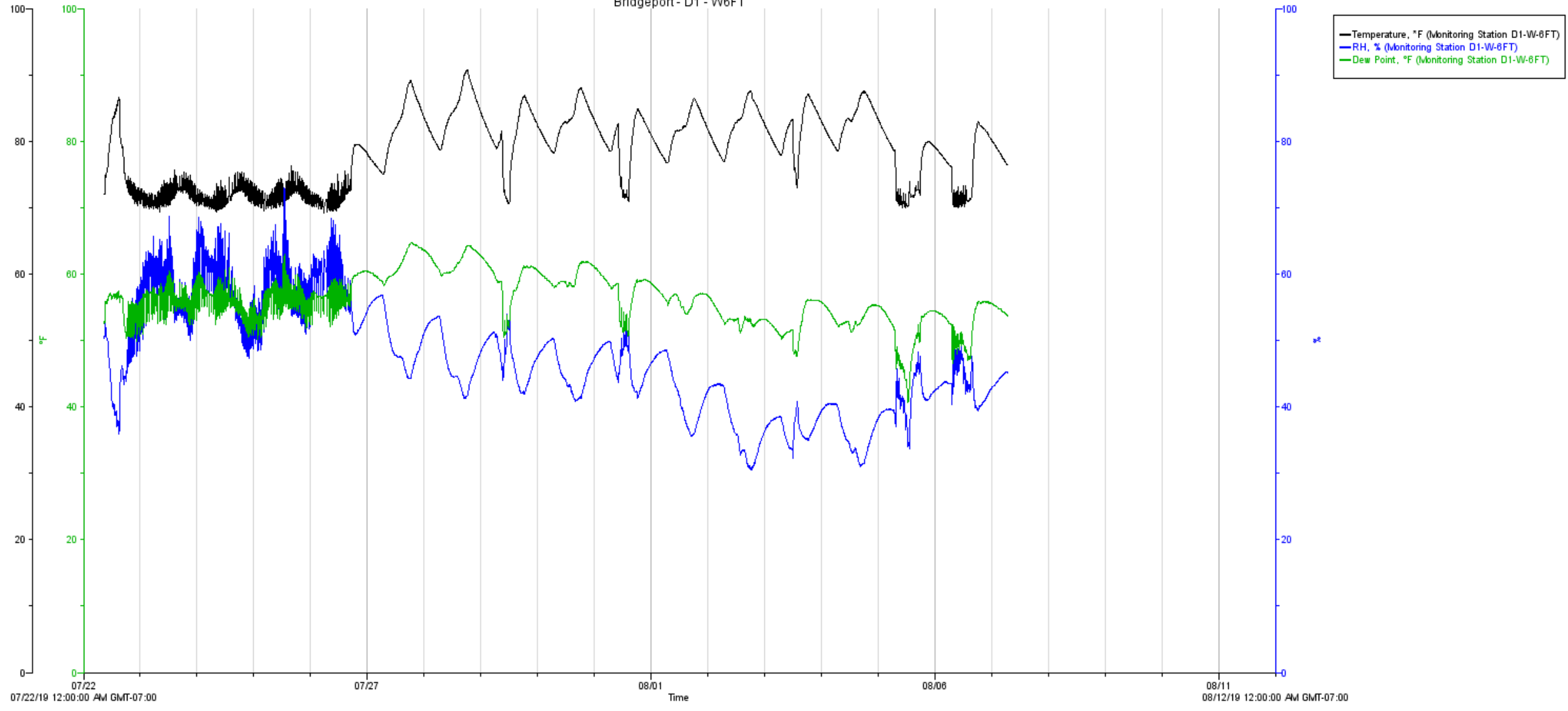
**D1-CF1-0FT No data,
Malfunctioning Device**

D1 ④

Bridgeport - D1 - CF20FT

Temperature, °F (Monitoring Station D1-CF2-0FT)
RH, % (Monitoring Station D1-CF2-0FT)
Dew Point, °F (Monitoring Station D1-CF2-0FT)

07/22/19 12:00:00 AM GMT-07:00
08/12/19 12:00:00 AM GMT-07:00

Time

D1 5

Bridgeport - D1 - E3FT

Temperature, °F (Monitoring Station D1-E-3FT)
RH, % (Monitoring Station D1-E-3FT)
Dew Point, °F (Monitoring Station D1-E-3FT)

07/22/19 12:00:00 AM GMT-07:00

08/12/19 12:00:00 AM GMT-07:00

Time
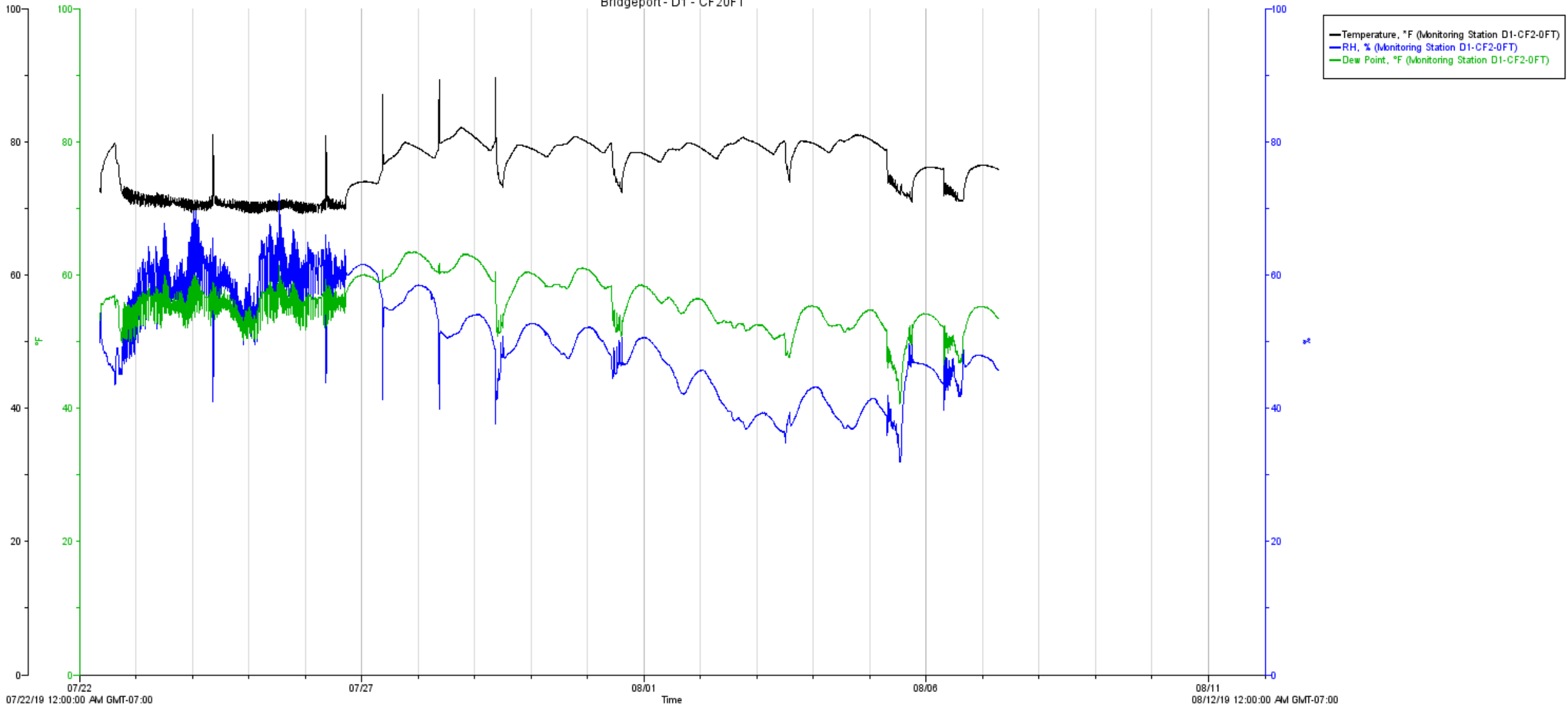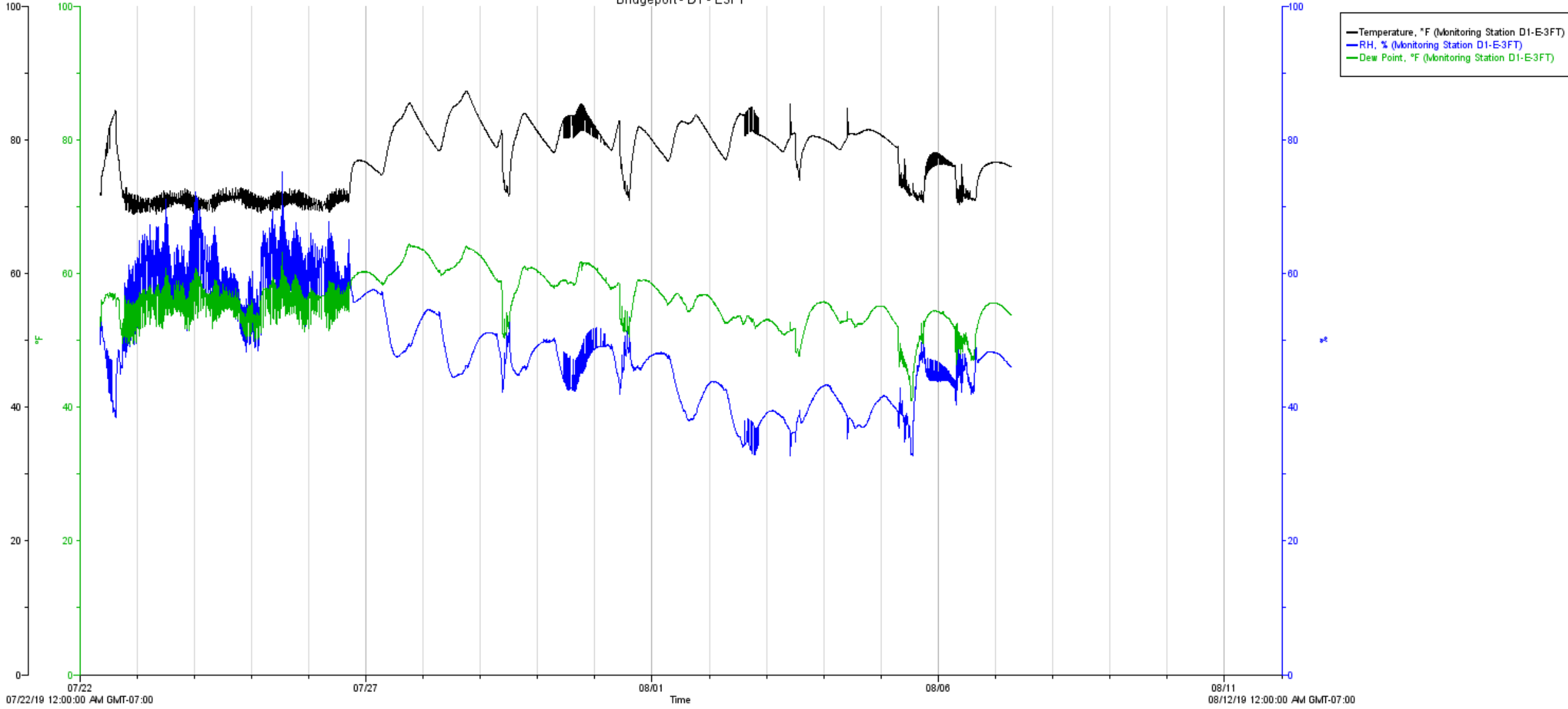
Bridgeport - D1 - E6FT

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station D1-CF2-0FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4581	4581	4581
Maxmum	89.68	72.25	63.5
Minimum	69.18	31.95	40.7
Mean	76.13	50.07	55.86
Standard Deviation	3.82	7.96	3.74
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	78.09	52.03	57.82
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	74.17	48.11	53.90

Statistical Analyses of Temperature, Relative Humidity and Dew Point

Monitoring Station D1-E-3FT

	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4578	4578	4578
Maxmum	87.25	75.19	64.4
Minimum	68.79	32.76	41
Mean	77.27	48.72	56.11
Standard Deviation	4.83	8.05	3.80
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	79.23	50.68	58.07
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	75.31	46.76	54.15

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station D1-E-6FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4581	4581	4581
Maxmum	89.68	78.01	64.5
Minimum	67.56	30.35	40
Mean	78.12	47.50	56.04
Standard Deviation	5.72	9.22	3.93
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	80.08	49.46	58.00
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	76.16	45.54	54.08

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station D1-W-3FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4582	4582	4582
Maxmum	88.68	69.64	64
Minimum	69.1	31.47	40.3
Mean	77.83	47.33	55.79
Standard Deviation	5.06	8.04	3.82
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	79.79	49.29	57.75
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	75.87	45.37	53.83

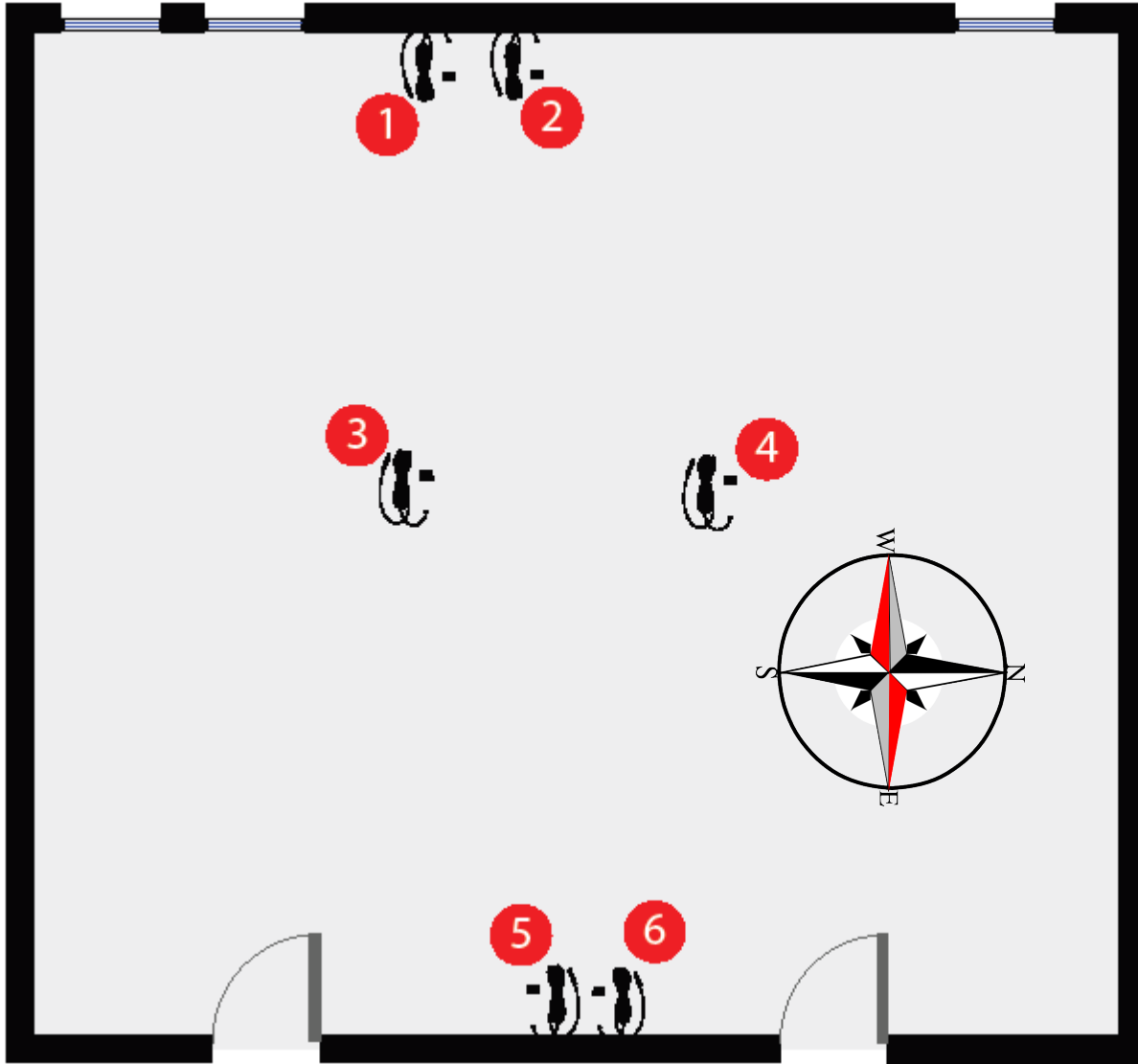Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station D1-W-6FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4581	4581	4581
Maxmum	90.72	73.03	64.7
Minimum	69.25	30.44	40.6
Mean	78.61	46.93	56.24
Standard Deviation	5.44	8.22	3.85
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	80.57	48.89	58.20
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	76.65	44.97	54.28

Classroom: D2

Sensor Name / Location

1	**D2-W-3FT**
2	**D2-W-6FT**
3	**D2-CF1-0FT**
4	**D2-CF2-0FT**
5	**D2-E-3FT**
6	**D2-E-6FT**

Bridgeport - D2 - W6FT

Temperature, °F (Monitoring Station D2-W-6FT)
RH, % (Monitoring Station D2-W-6FT)
Dew Point, °F (Monitoring Station D2-W-6FT)

07/22/19 12:00:00 AM GMT-07:00

08/12/19 12:00:00 AM GMT-07:00

Time
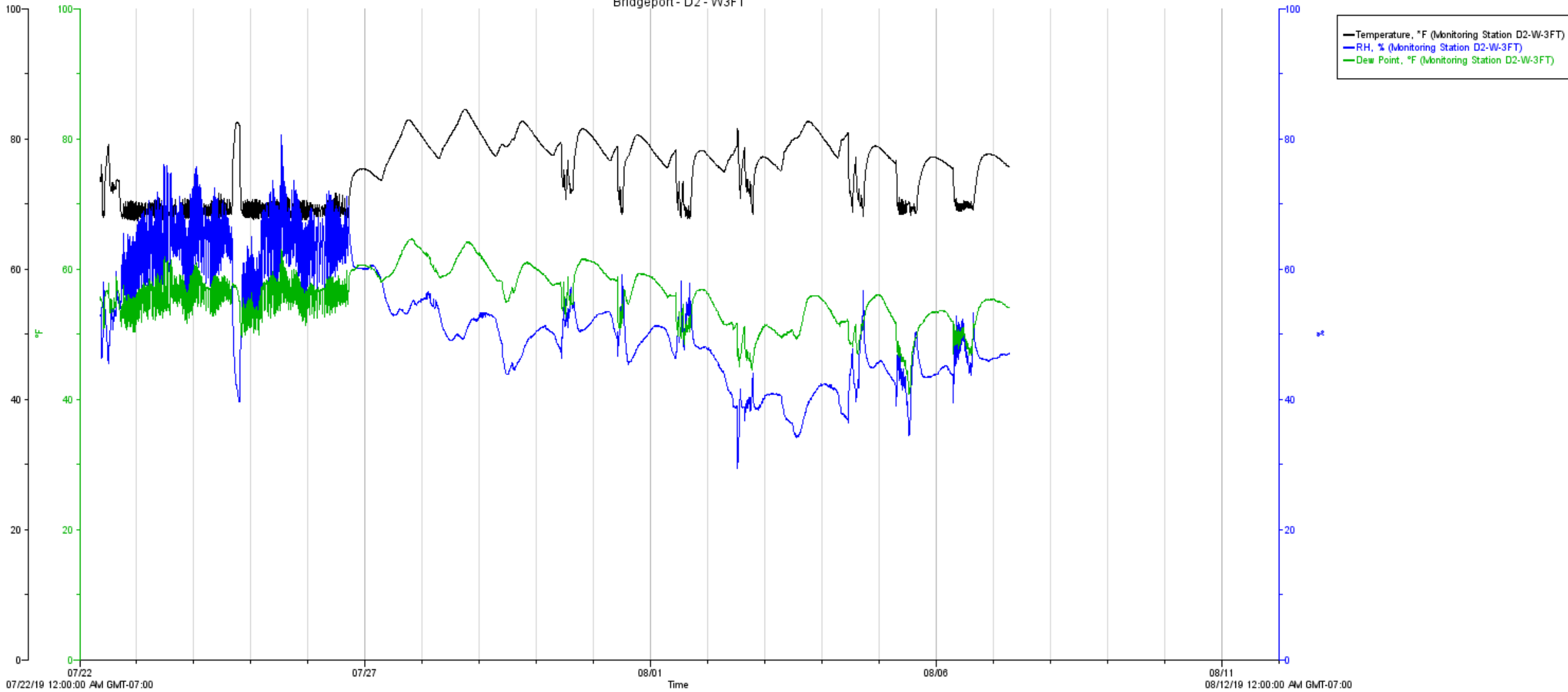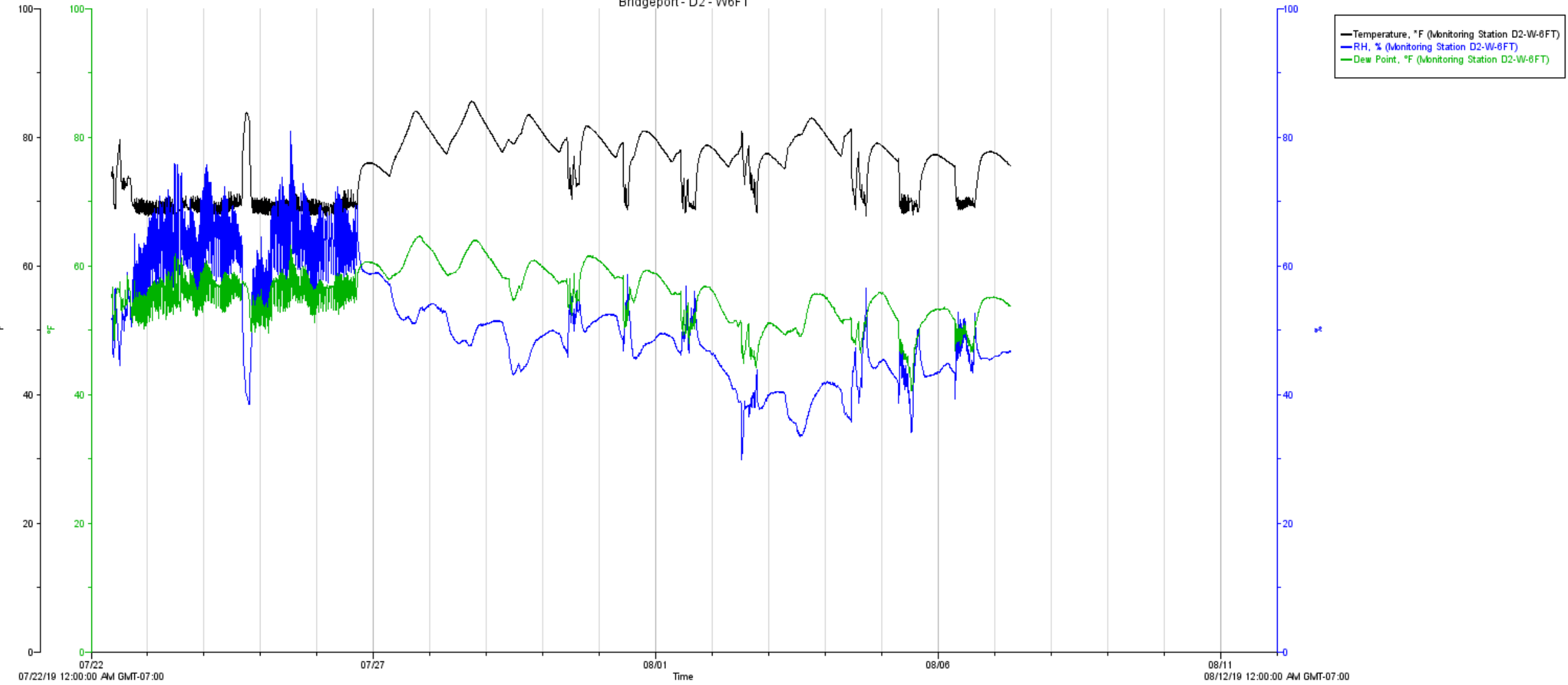
D2 ③

Bridgeport - D2 - CF10FT
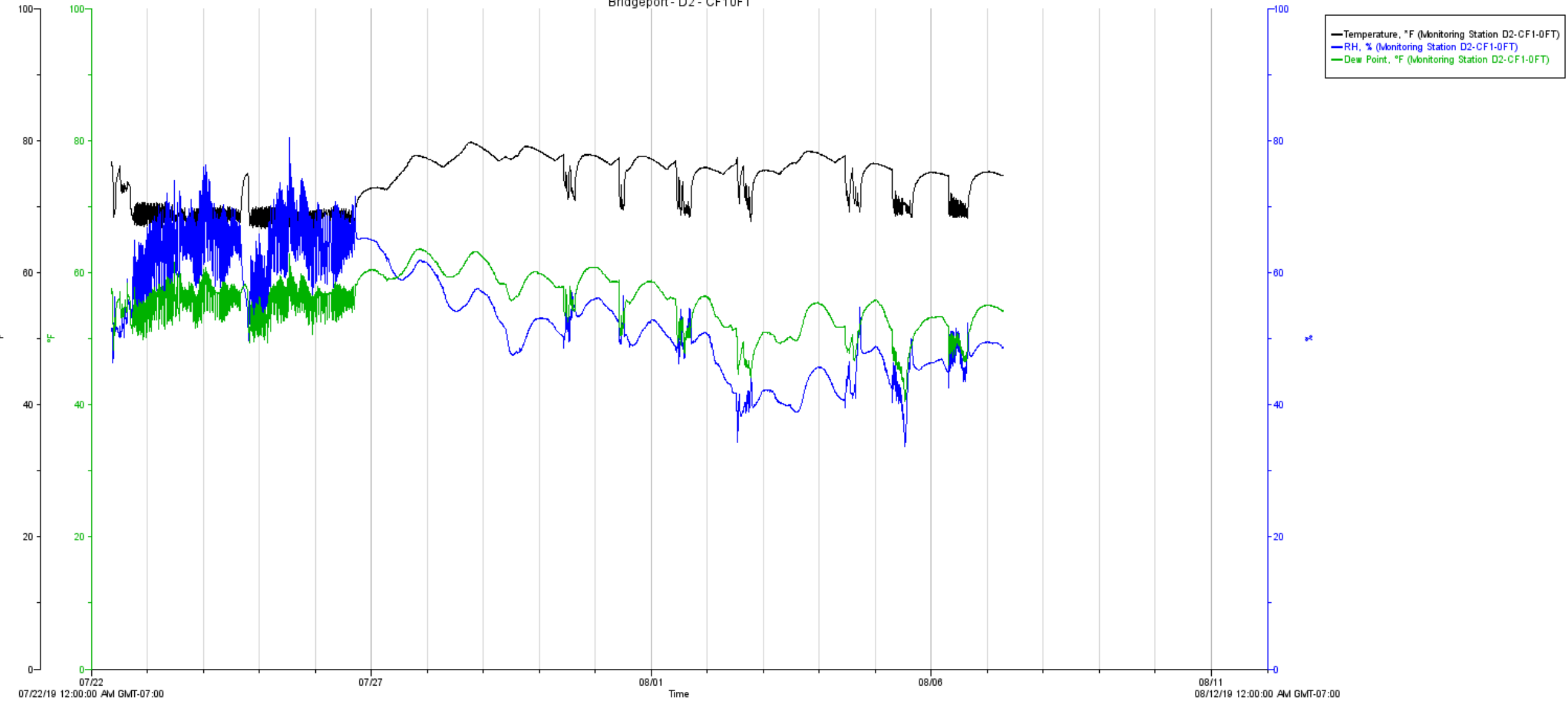
D2 ④

Bridgeport - D2 - CF20FT
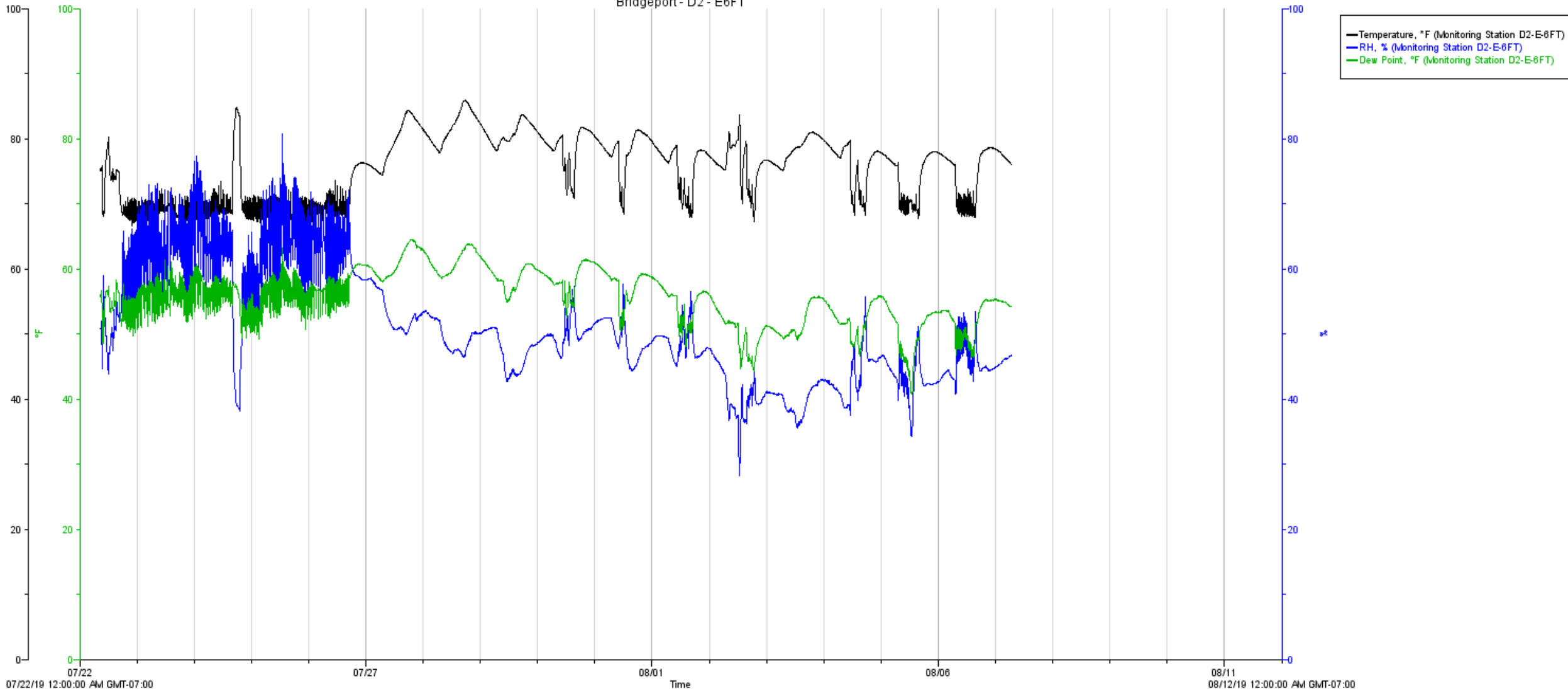
Temperature, °F (Monitoring Station D2-CF2-0FT)
RH, % (Monitoring Station D2-CF2-0FT)
Dew Point, °F (Monitoring Station D2-CF2-0FT)

Time

07/22/19 12:00:00 AM GMT-07:00

08/12/19 12:00:00 AM GMT-07:00

D2 ⑤

Bridgeport - D2 - E3FT

Legend:
- Temperature, °F (Monitoring Station D2-E-3FT)
- RH, % (Monitoring Station D2-E-3FT)
- Dew Point, °F (Monitoring Station D2-E-3FT)

07/22/19 12:00:00 AM GMT-07:00

08/12/19 12:00:00 AM GMT-07:00

Time

Bridgeport - D2 - E6FT

Temperature, °F (Monitoring Station D2-E-6FT)
RH, % (Monitoring Station D2-E-6FT)
Dew Point, °F (Monitoring Station D2-E-6FT)

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station D2-CF1-0FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4581	4581	4581
Maxmum	79.72	80.48	63.6
Minimum	66.4	33.75	40.5
Mean	73.68	53.65	55.52
Standard Deviation	3.73	8.58	4.12
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	75.64	55.61	57.48
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	71.72	51.69	53.56

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station D2-CF2-0FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4582	4582	4582
Maxmum	79.1	79.02	63.6
Minimum	67.36	33.75	40.9
Mean	73.60	53.83	55.56
Standard Deviation	3.38	8.31	4.05
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	75.56	55.79	57.52
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	71.64	51.87	53.60

Statistical Analyses of Temperature, Relative Humidity and Dew Point

Monitoring Station D2-E-3FT	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4581	4581	4581
Maxmum	84.43	79.04	64.5
Minimum	67.32	28.07	40.6
Mean	75.36	50.82	55.52
Standard Deviation	4.59	8.59	4.14
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	77.32	52.78	57.48
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	73.40	48.86	53.56

Statistical Analyses of Temperature, Relative Humidity and Dew Point

|	Monitoring Station D2-E-6FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4581	4581	4581
Maxmum	85.9	80.79	64.4
Minimum	66.63	28.26	40.7
Mean	75.49	50.82	55.63
Standard Deviation	4.96	8.74	4.17
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	77.45	52.78	57.59
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	73.53	48.86	53.67

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station D2-W-3FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4581	4581	4570
Maxmum	84.54	80.61	64.7
Minimum	67.32	29.32	40.8
Mean	75.10	51.65	55.73
Standard Deviation	4.72	8.84	4.17
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	77.06	53.61	57.69
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	73.14	49.69	53.77

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Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station D2-W-6FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4582	4582	4582
Maxmum	85.59	80.94	64.6
Minimum	67.4	29.85	40.5
Mean	75.40	50.86	55.56
Standard Deviation	4.86	8.85	4.19
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	77.36	52.82	57.52
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	73.44	48.90	53.60

Classroom: B2
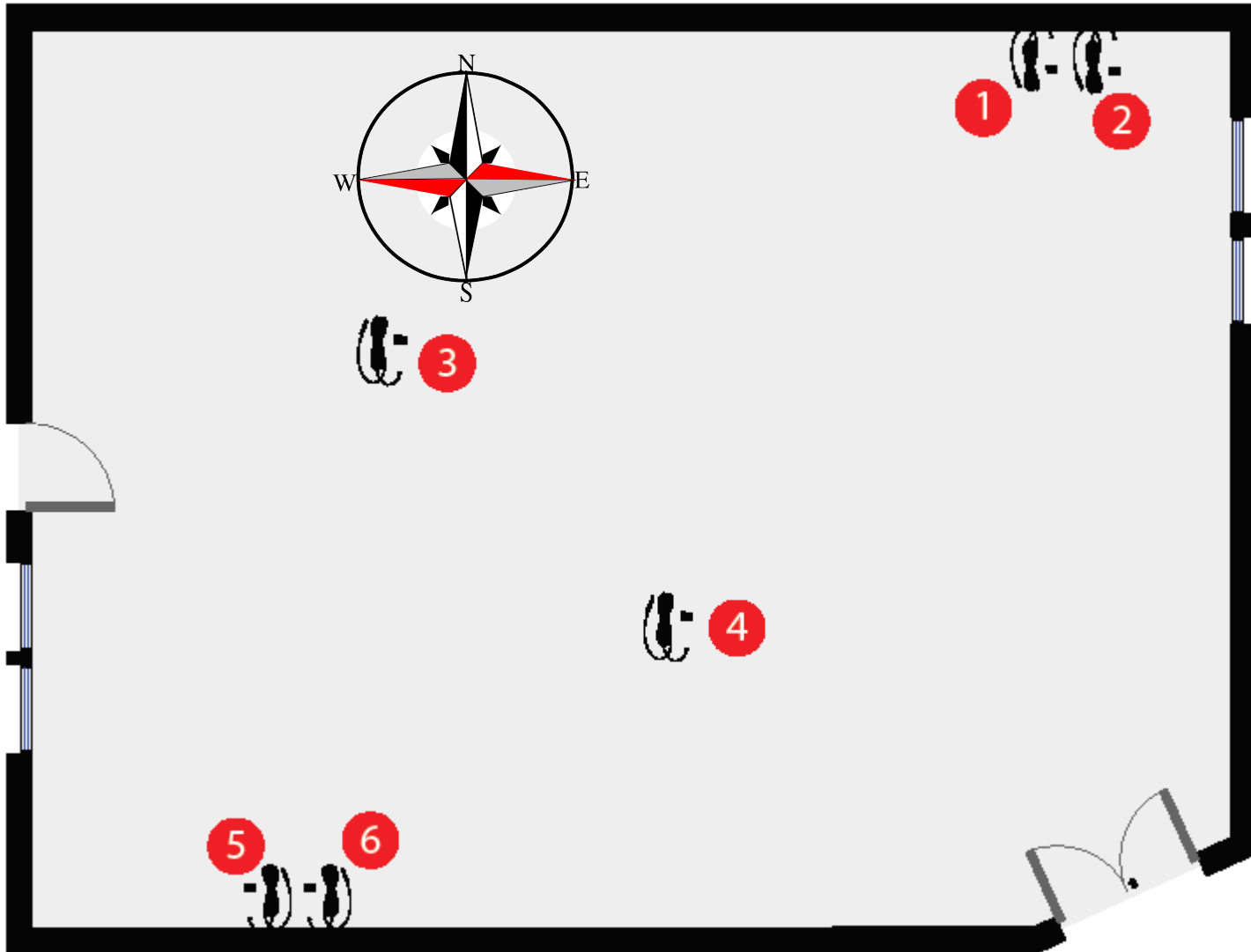
Sensor Name / Location

1. **B2-N-3FT**
2. **B2-N-6FT**
3. **B2-CF1-0FT**
4. **B2-CF2-0FT**
5. **B2-S-3FT**
6. **B2-S-6FT**

B2 ①

Bridgeport - B2 - N3FT

B2 **2**

Bridgeport - B2 - N6FT

Legend:
- Temperature, °F (Monitoring Station B2-N-6FT)
- RH, % (Monitoring Station B2-N-6FT)
- Dew Point, °F (Monitoring Station B2-N-6FT)

07/22/19 12:00:00 AM GMT-07:00

08/12/19 12:00:00 AM GMT-07:00

Time
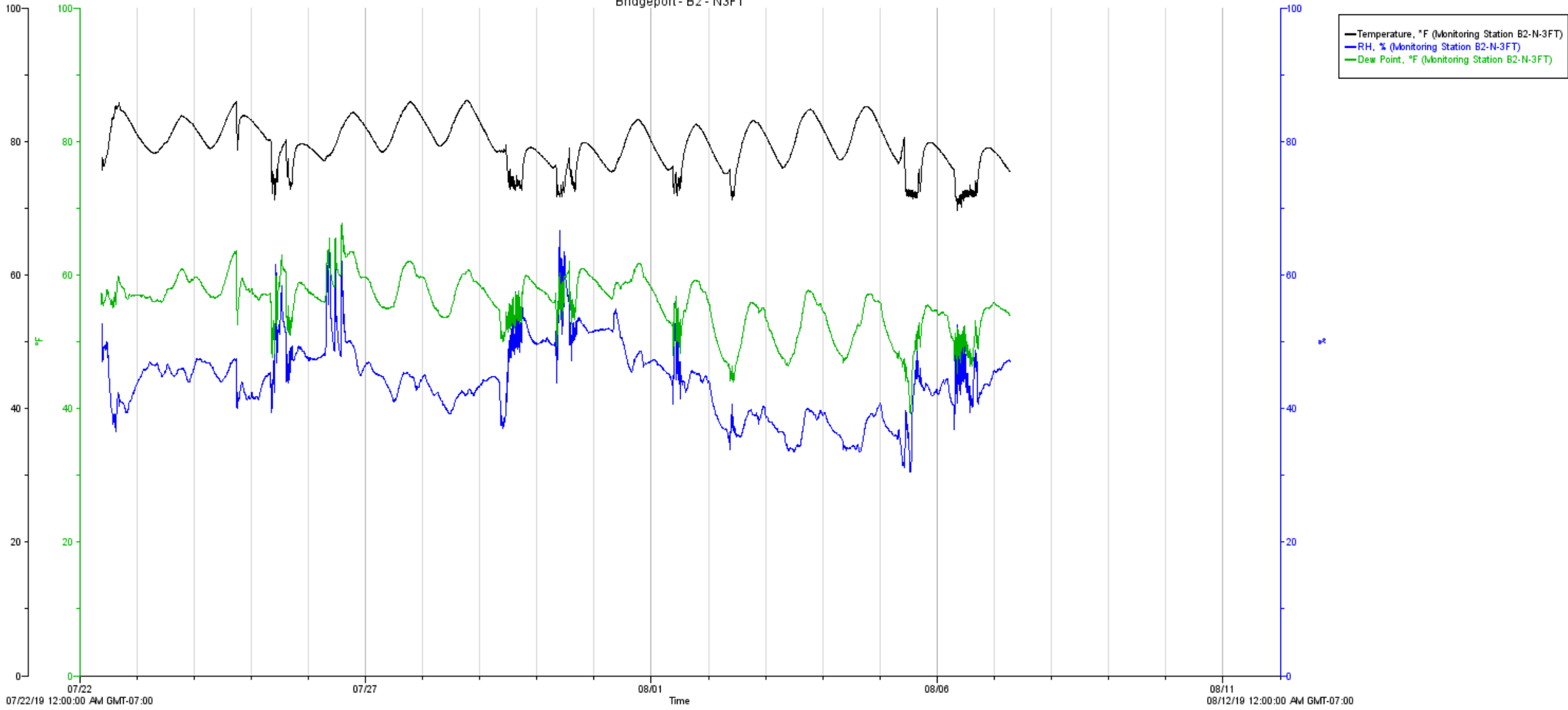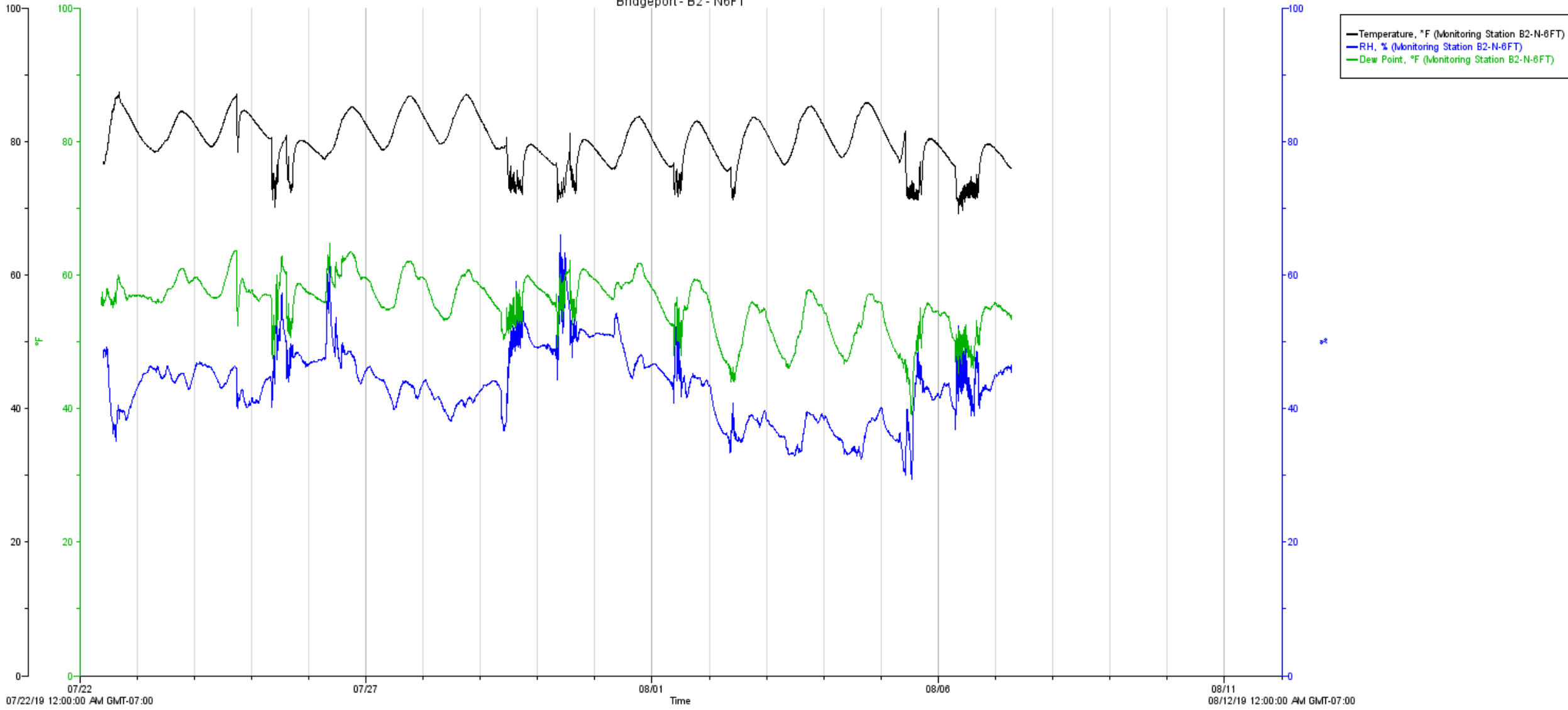
B2 **3**

Bridgeport - B2 - CF10FT

Legend:
- Temperature, °F (Monitoring Station B2-CF1-0FT)
- RH, % (Monitoring Station B2-CF1-0FT)
- Dew Point, °F (Monitoring Station B2-CF1-0FT)

07/22/19 12:00:00 AM GMT-07:00

08/12/19 12:00:00 AM GMT-07:00

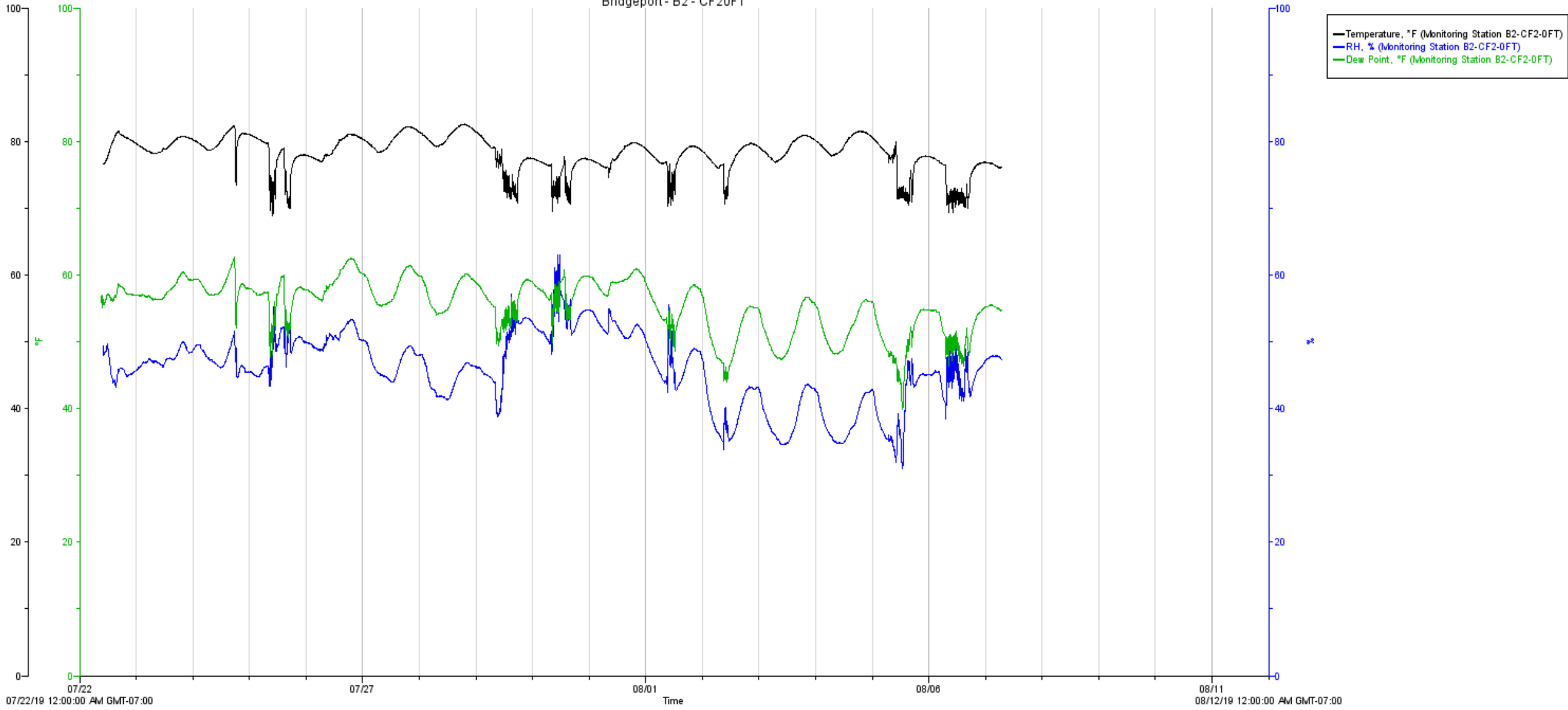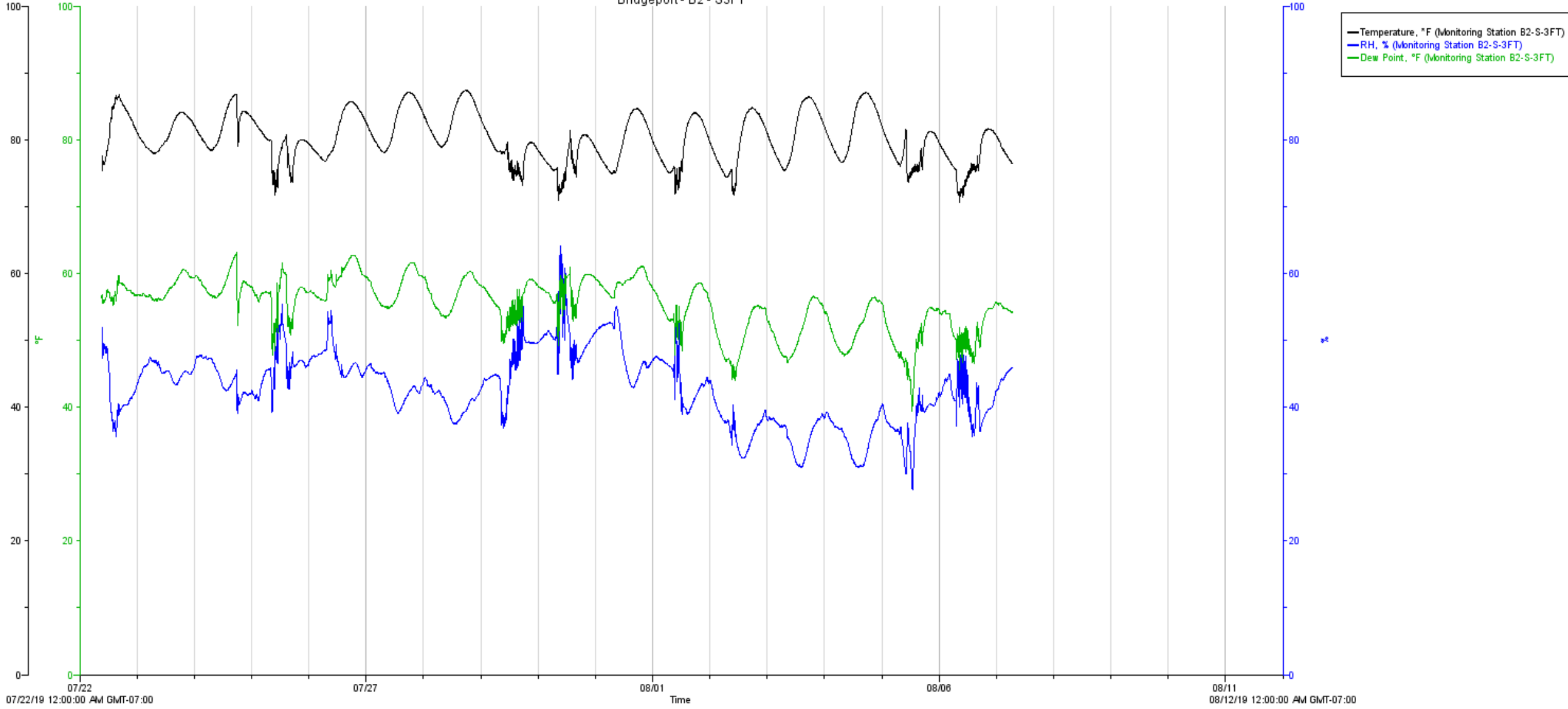Time
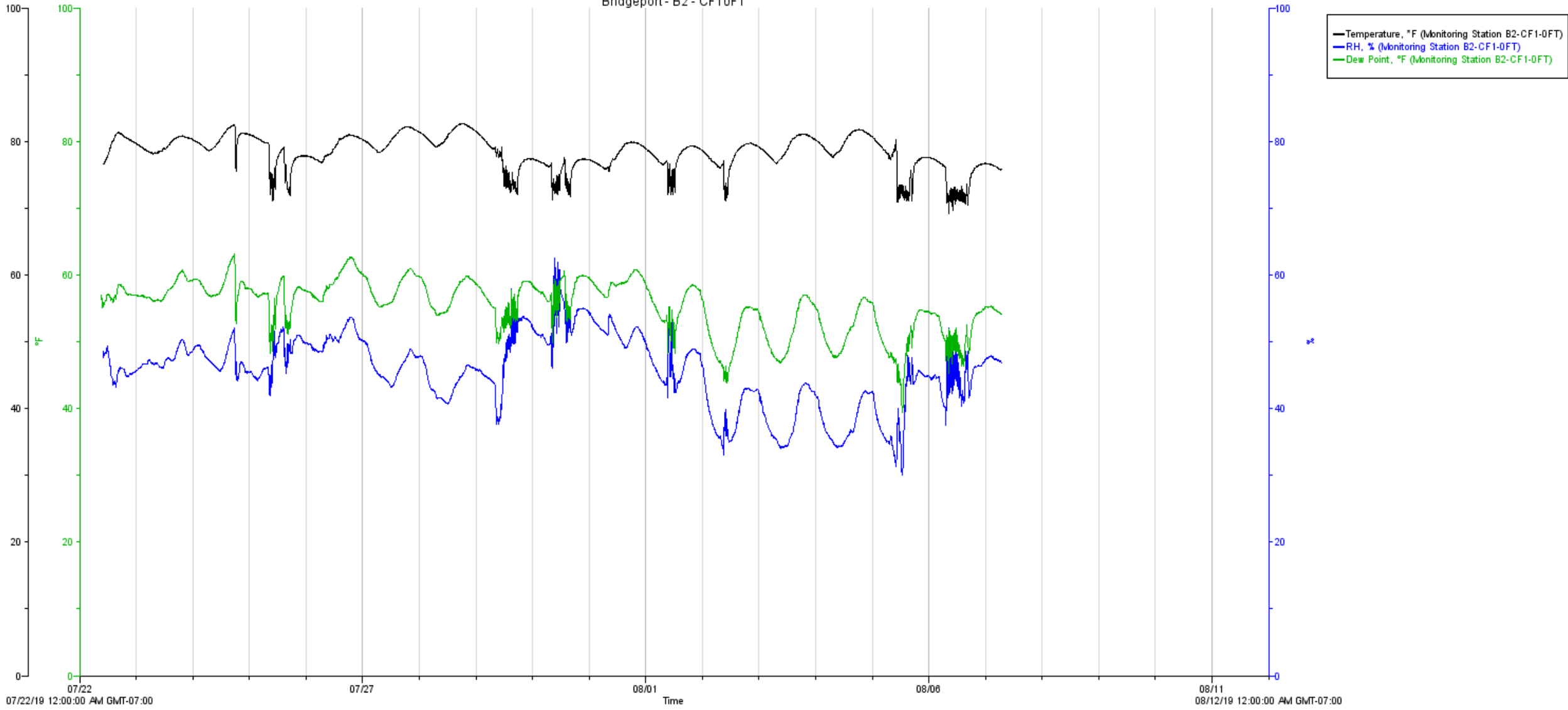
Bridgeport - B2 - CF20FT

Bridgeport - B2 - S3FT

B2 **6**

Bridgeport - B2 S6FT
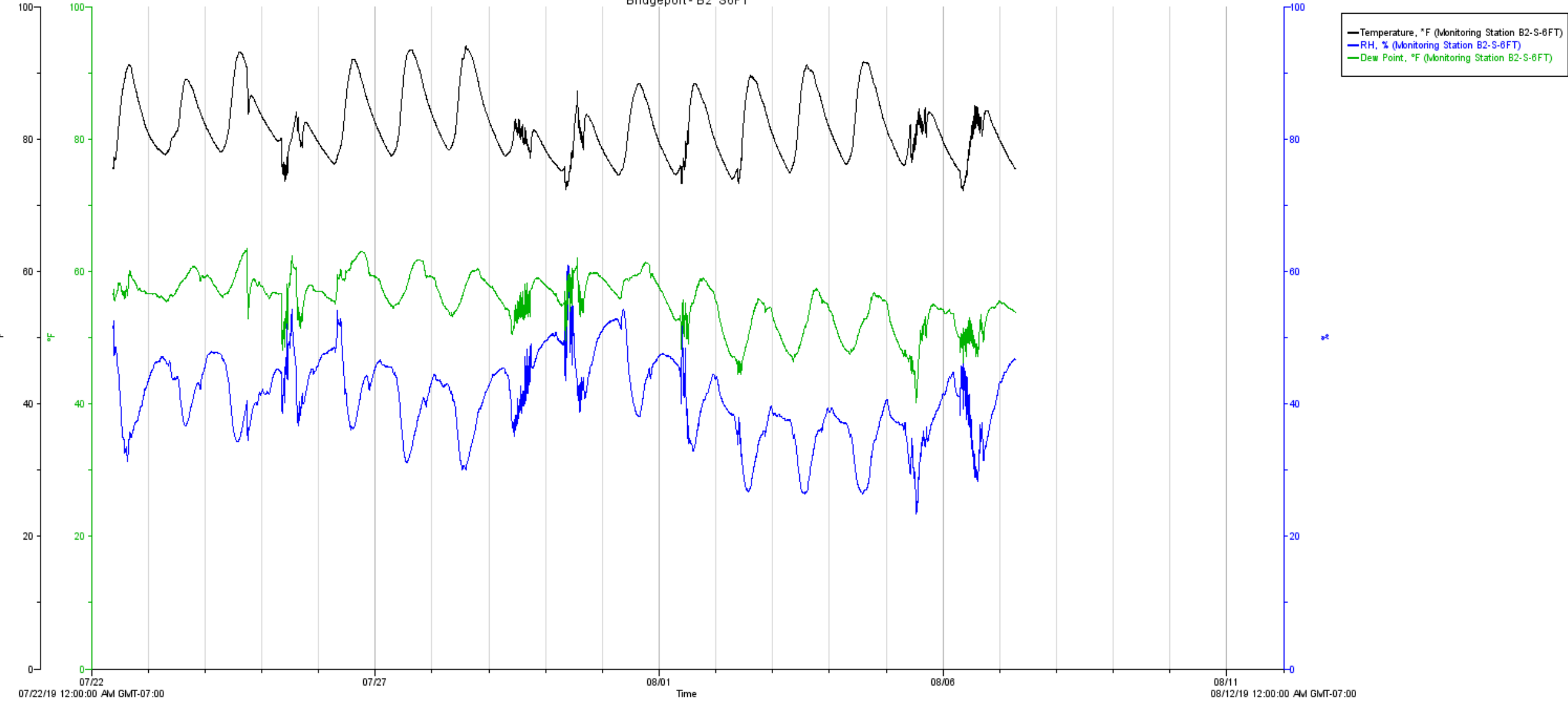
Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station B2-CF1-0FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4566	4566	4577
Maxmum	82.69	62.46	63.1
Minimum	69.14	29.99	39.4
Mean	78.34	45.59	55.47
Standard Deviation	2.53	5.29	3.91
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	80.30	47.55	57.43
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	76.38	43.63	53.51

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Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station B2-CF2-0FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4566	4566	4577
Maxmum	82.57	63.07	62.7
Minimum	68.91	30.93	39.9
Mean	78.21	45.86	55.52
Standard Deviation	2.64	5.27	3.91
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	80.17	47.82	57.48
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	76.25	43.90	53.56

5725-01 Bridgeport Elementary School

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station B2-N-3FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4569	4569	4577
Maxmum	86.17	66.65	67.7
Minimum	69.68	30.51	39.2
Mean	79.55	44.18	55.68
Standard Deviation	3.42	5.41	4.11
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	81.51	46.14	57.64
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	77.59	42.22	53.72

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Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station B2-N-6FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4566	4566	4577
Maxmum	87.4	65.94	64.70
Minimum	69.14	29.44	39.10
Mean	80.02	43.45	55.64
Standard Deviation	3.61	5.29	4.09
Confidence Level	0.95	0.95	95%
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	81.98	45.41	57.60
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	78.06	41.49	53.68

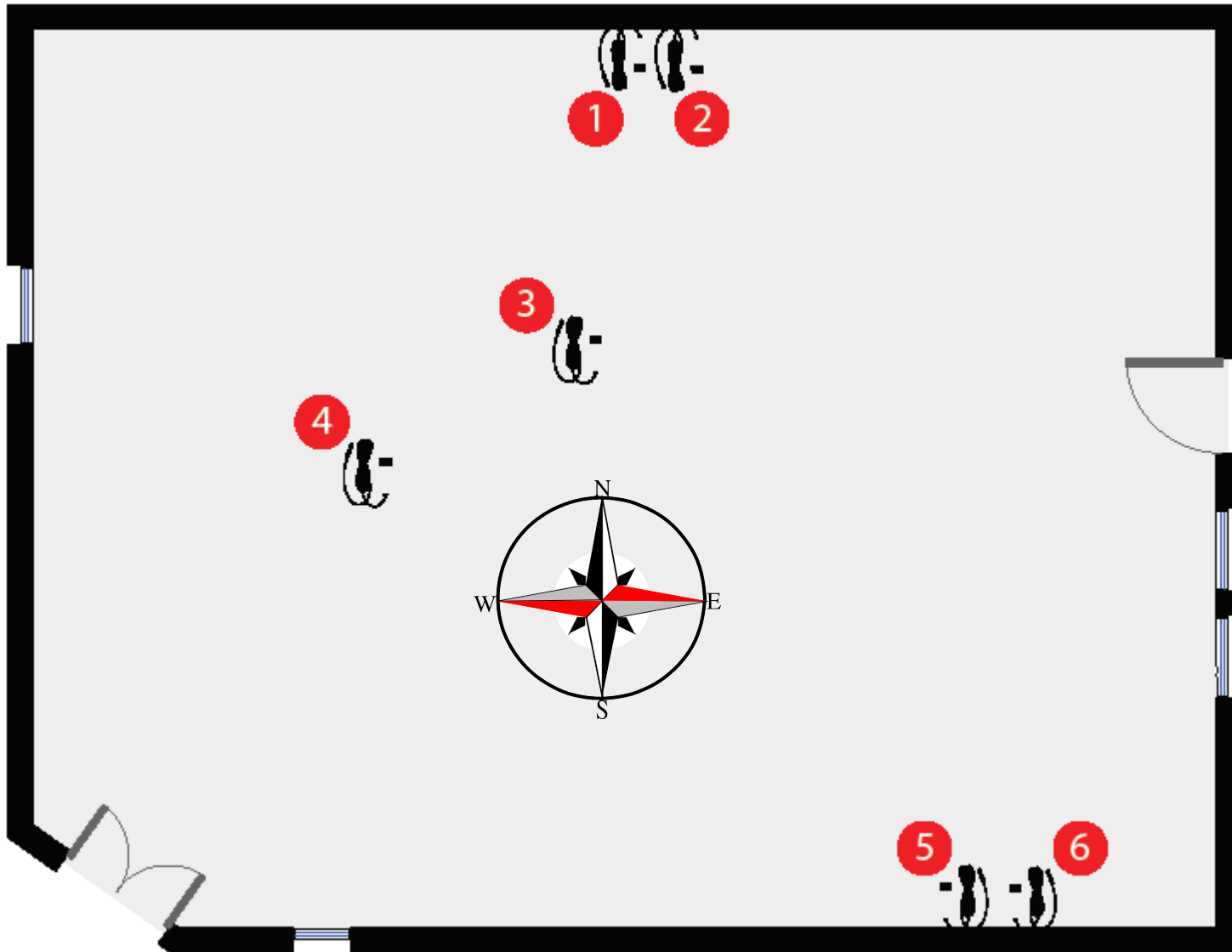Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station B2-S-3FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4570	4570	4577
Maxmum	87.40	64.15	63.2
Minimum	70.64	27.7	39.4
Mean	80.19	42.87	55.41
Standard Deviation	3.63	5.33	3.92
Confidence Level	95%	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	82.15	44.83	57.37
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	78.23	40.91	53.45

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station B2-S-6FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4577	4577	4577
Maxmum	94.04	60.98	63.4
Minimum	72.11	23.31	40.1
Mean	81.97	40.84	55.54
Standard Deviation	4.92	6.12	3.88
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	83.93	42.80	57.50
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	80.01	38.88	53.58

September 2019

Classroom: B1

1	**B1-N-3FT**
2	**B1-N-6FT**
3	**B1-CF1-0FT**
4	**B1-CF2-0FT**
5	**B1-S-3FT**
6	**B1-S-6FT**

B1 ①

Bridgeport - B1 - N3FT

- Temperature, °F (Monitoring Station B1-N-3FT)
- RH, % (Monitoring Station B1-N-3FT)
- Dew Point, °F (Monitoring Station B1-N-3FT)

07/22/19 12:00:00 AM GMT-07:00

08/12/19 12:00:00 AM GMT-07:00

Time
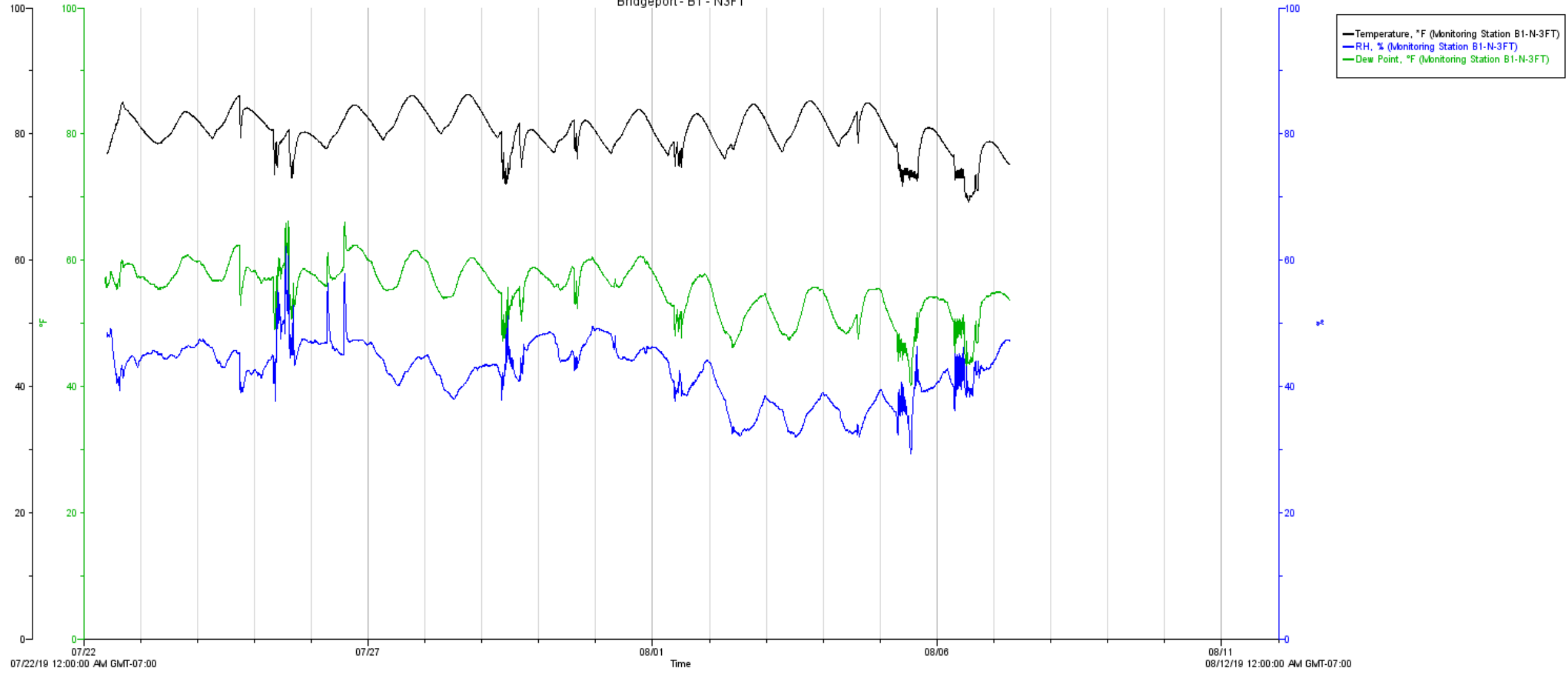
B1 ②
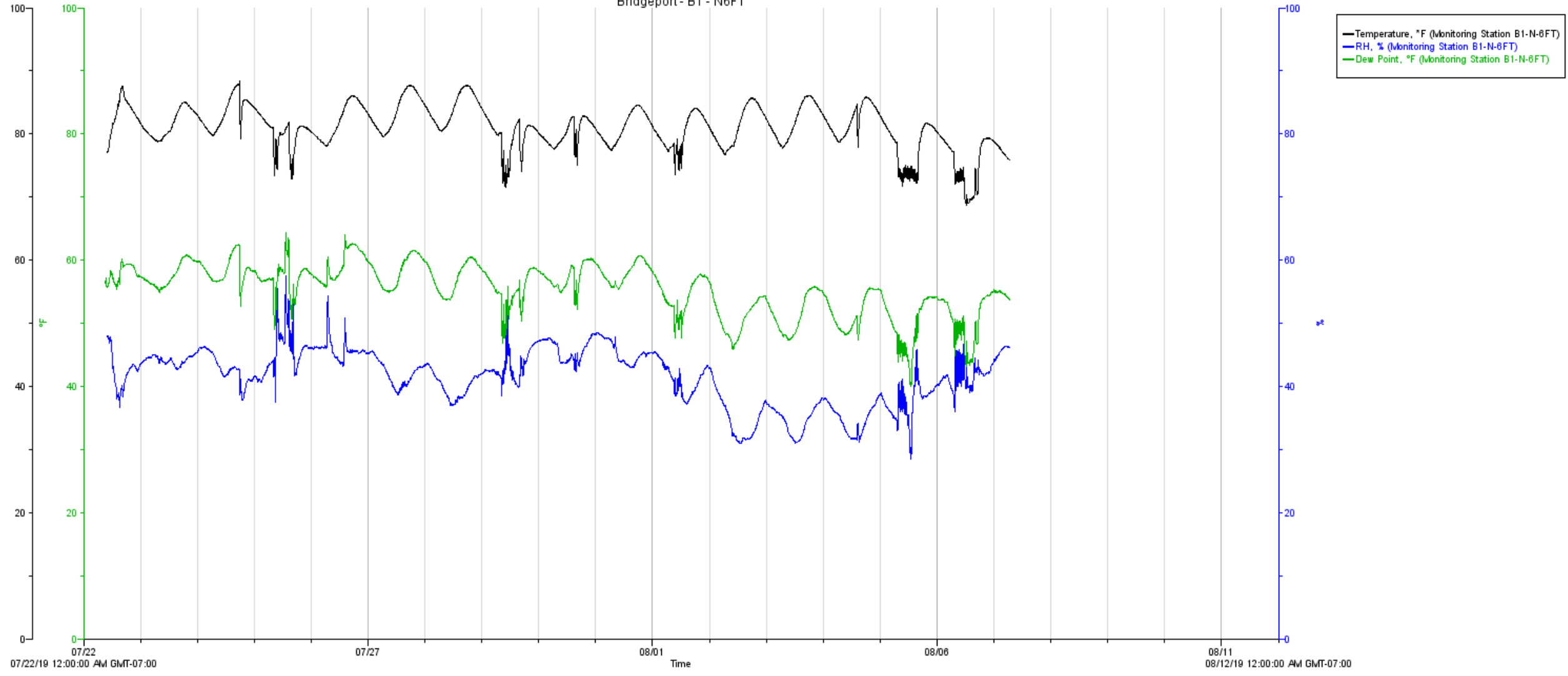
Bridgeport - B1 - N6FT

Bridgeport - B1 - CF10FT
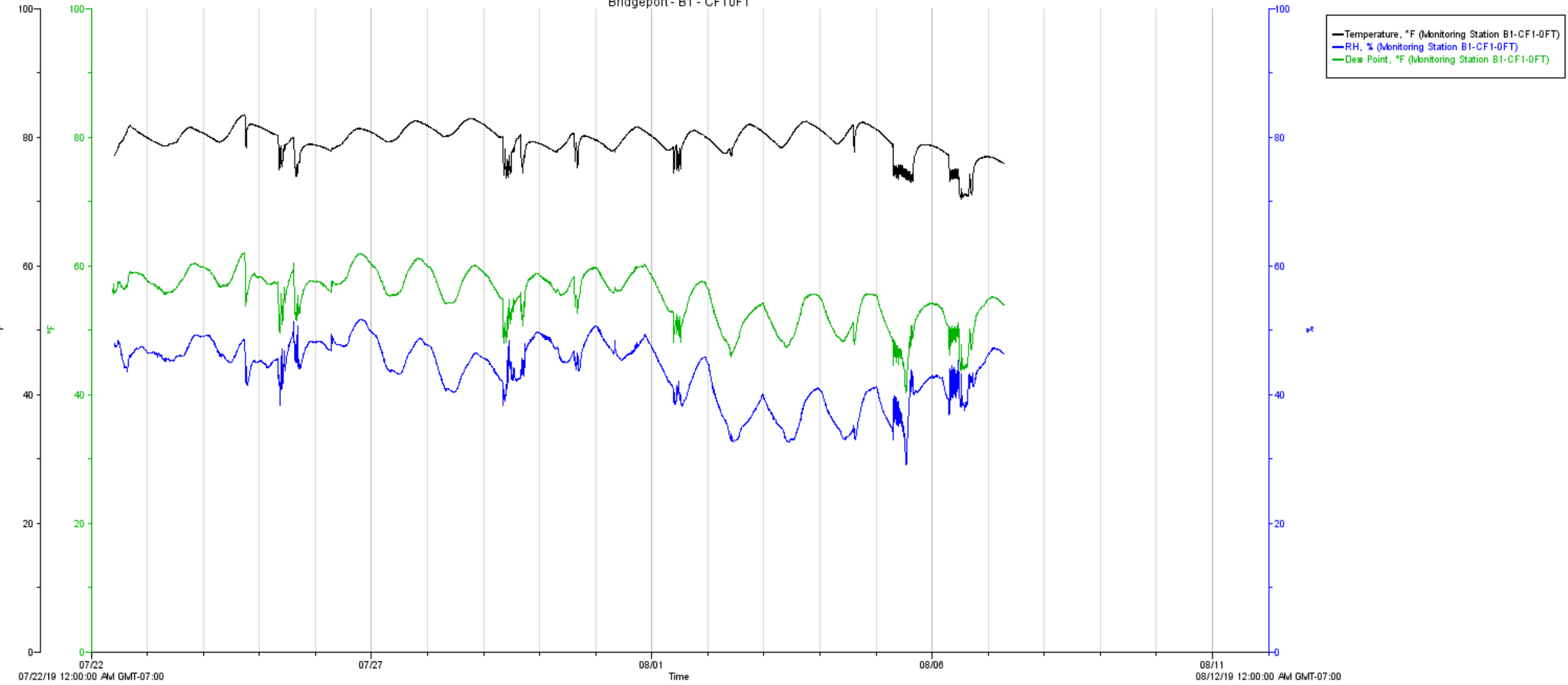
Bridgeport - B1 - CF20FT
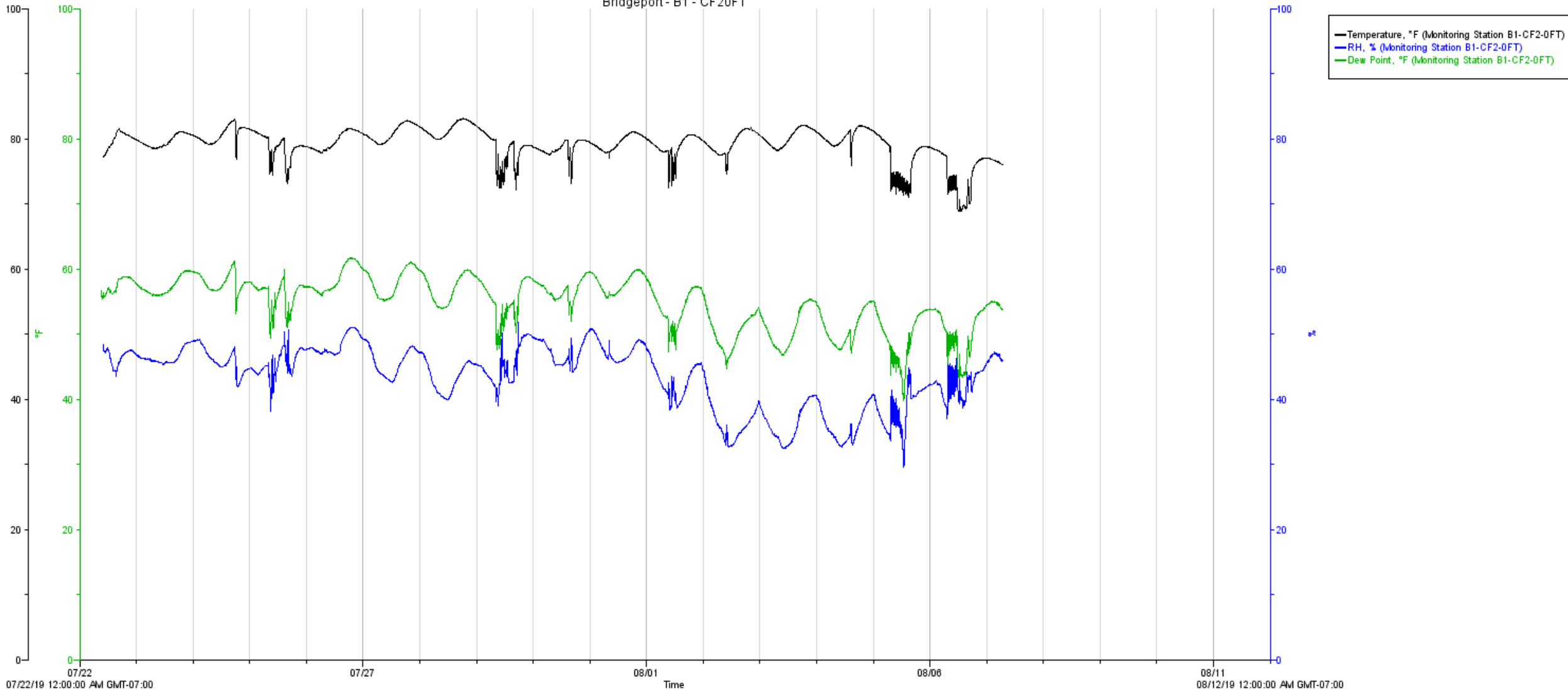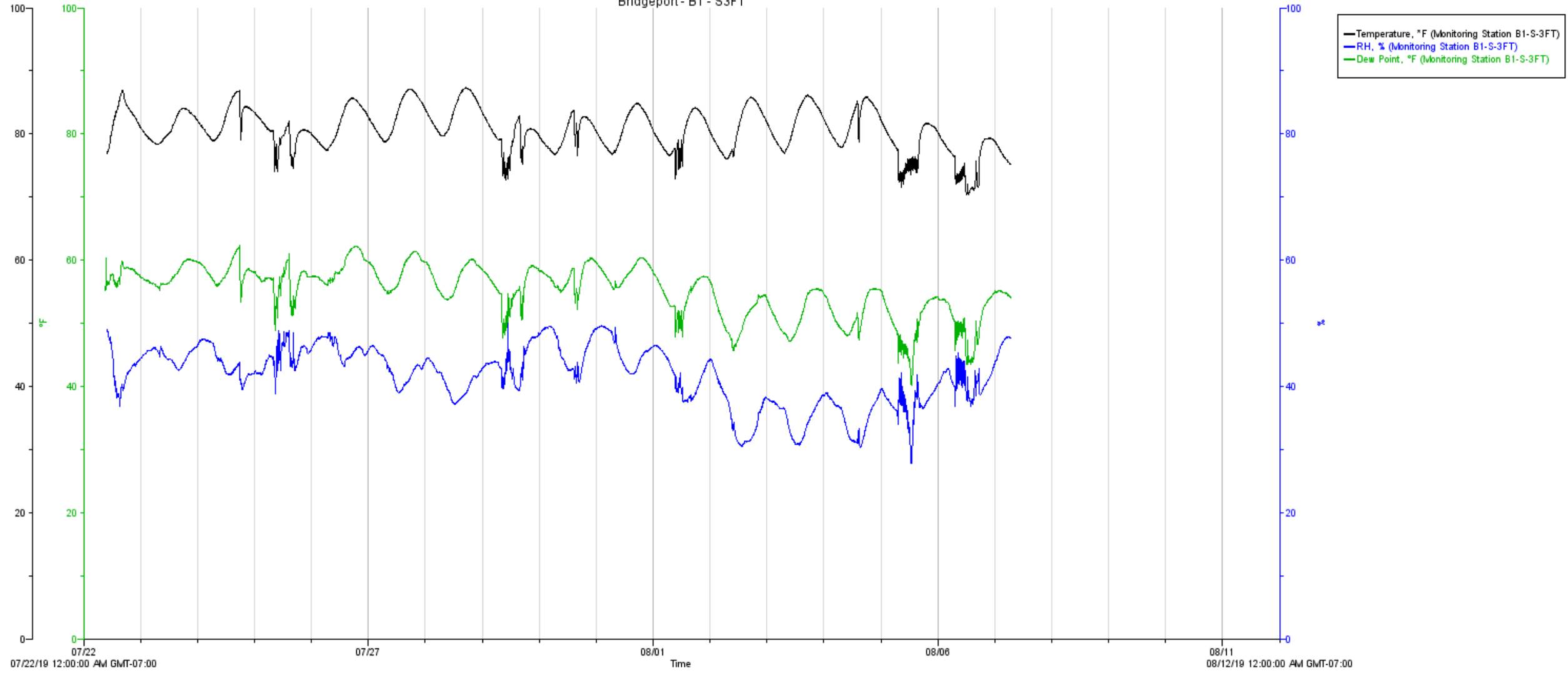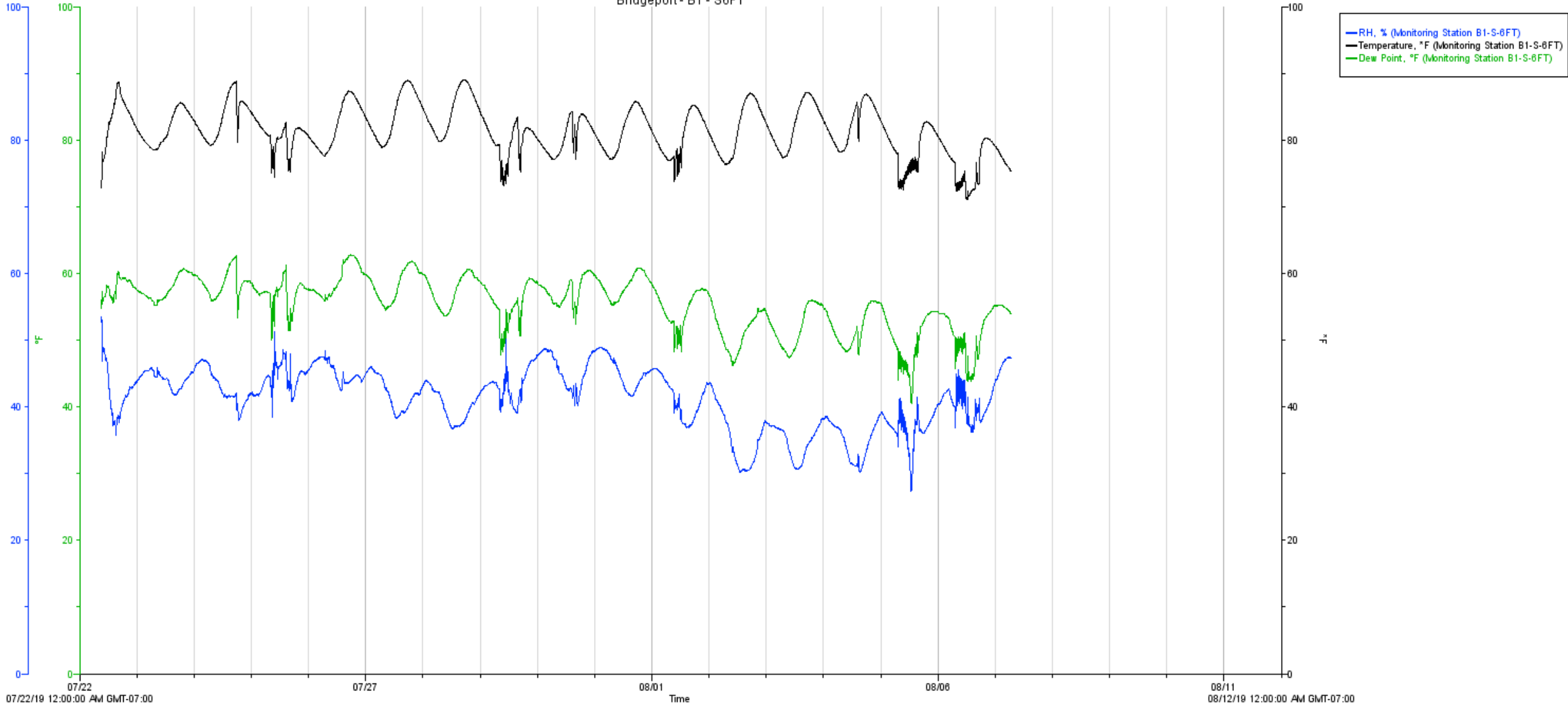
Temperature, °F (Monitoring Station B1-CF2-0FT)
RH, % (Monitoring Station B1-CF2-0FT)
Dew Point, °F (Monitoring Station B1-CF2-0FT)

Bridgeport - B1 - S3FT

Legend:
- Temperature, °F (Monitoring Station B1-S-3FT)
- RH, % (Monitoring Station B1-S-3FT)
- Dew Point, °F (Monitoring Station B1-S-3FT)

07/22/19 12:00:00 AM GMT-07:00

08/12/19 12:00:00 AM GMT-07:00

Time

Bridgeport - B1 - S6FT

Legend:
- RH, % (Monitoring Station B1-S-6FT)
- Temperature, °F (Monitoring Station B1-S-6FT)
- Dew Point, °F (Monitoring Station B1-S-6FT)

07/22/19 12:00:00 AM GMT-07:00

08/12/19 12:00:00 AM GMT-07:00

Time

Statistical Analyses of Temperature, Relative Humidity and Dew Point

Monitoring Station B1-CF1-0FT			
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4566	4566	4577
Maxmum	83.54	51.64	62.1
Minimum	70.37	28.96	40.3
Mean	79.46	43.57	55.26
Standard Deviation	2.18	4.66	3.88
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	81.42	45.53	57.22
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	77.50	41.61	53.30

September 2019

Monitoring Station B1-CF2-0FT	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4566	4566	4577
Maxmum	83.12	51.75	61.7
Minimum	68.87	29.47	39.7
Mean	79.19	43.40	54.91
Standard Deviation	2.41	4.71	3.98
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	81.15	45.36	56.87
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	77.23	41.44	52.95

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station B1-N-3FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4567	4567	4576
Maxmum	86.28	62.5	66.2
Minimum	69.25	29.37	40.1
Mean	80.43	42.39	55.37
Standard Deviation	3.10	4.58	4.04
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	82.39	44.35	57.33
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	78.47	40.43	53.41

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Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station B1-N-6FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4566	4566	4577
Maxmum	88.4	57.44	64.3
Minimum	68.75	28.54	40
Mean	81.08	41.47	55.35
Standard Deviation	3.47	4.42	4.06
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	83.04	43.43	57.31
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	79.12	39.51	53.39

Statistical Analyses of Temperature, Relative Humidity and Dew Point

Monitoring Station B1-S-3FT			
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4567	4567	4577
Maxmum	87.32	50.89	62.3
Minimum	70.41	27.79	40.1
Mean	80.75	41.75	55.23
Standard Deviation	3.34	4.57	3.94
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	82.71	43.71	57.19
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	78.79	39.79	53.27

Statistical Analyses of Temperature, Relative Humidity and Dew Point

	Monitoring Station B1-S-6FT		
	Temperature, °F	Relative Humidiy, %	Dew Point, °F
Number of Samples	4577	4577	4577
Maxmum	89.02	53.46	62.8
Minimum	71.11	27.37	40.5
Mean	81.38	41.30	55.49
Standard Deviation	3.63	4.49	3.95
Confidence Level	0.95	0.95	0.95
Za/2	0.475	0.475	0.475
Corresponding z-value	1.96	1.96	1.96
Upper Bound Confidence Interval (Mean + 1.96 Std. Dev.)	83.34	43.26	57.45
Lower Bound Confidence Interval (Mean - 1.96 Std. Dev.)	79.42	39.34	53.53