



ATLAS

WEATHERING SERVICES GROUP

Latitude 33° 54' North, Longitude 112° 08' West, Elevation 610 (m)

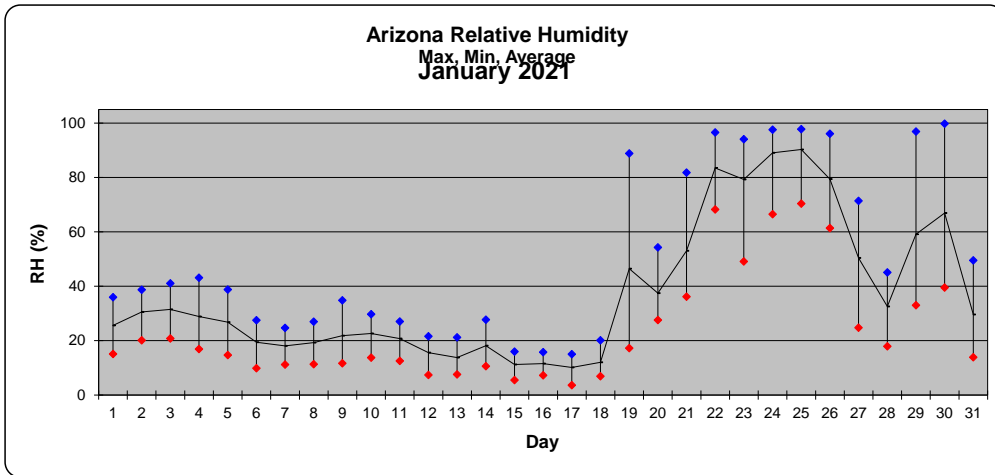
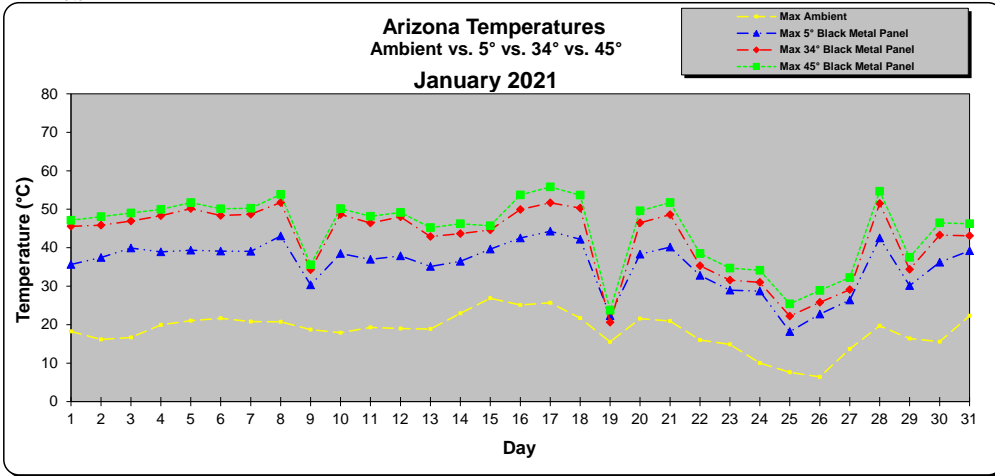


Weather Summary January 2021 Phoenix, Arizona

AWSG		Temperature Summary												Climate Summary					
Month	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (° C)									Relative Humidity			Wind Speed		Wind Direction	Rainfall
January	(° C)			5°			34°			45°			(%)			m/sec		360°/0° = N	(mm)
Day	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Avg.	Avg.	Total
1	18	6	11	36	3	13	46	4	15	47	4	15	36	15	26	11.5	3.1	31°	0.0
2	16	4	9	37	1	11	46	2	13	48	2	14	39	20	31	5.4	1.7	48°	0.0
3	17	4	10	40	1	11	47	2	14	49	2	14	41	21	31	6.9	1.6	26°	0.0
4	20	5	12	39	3	14	48	3	17	50	3	17	43	17	29	7.7	1.8	30°	0.0
5	21	6	13	39	3	15	50	4	17	52	4	17	39	15	27	7.1	1.9	33°	0.0
6	22	9	14	39	7	15	48	7	17	50	8	17	28	10	19	12.0	3.1	35°	0.0
7	21	8	13	39	6	15	49	6	18	50	6	18	25	11	18	7.5	2.1	40°	0.0
8	21	8	13	43	5	15	52	6	17	54	6	17	27	11	19	6.1	1.6	34°	0.0
9	19	3	11	30	0	12	34	0	14	36	1	14	35	12	22	13.4	2.6	23°	0.0
10	18	7	11	38	5	13	49	5	15	50	6	16	30	14	23	10.3	2.6	28°	0.0
11	19	7	12	37	5	13	46	5	16	48	5	16	27	13	21	11.0	3.0	28°	0.0
12	19	6	11	38	4	13	48	4	15	49	4	15	22	7	16	10.2	3.0	31°	0.0
13	19	6	11	35	2	13	43	2	15	45	2	16	21	8	14	6.7	1.6	27°	0.0
14	23	5	14	36	3	16	44	3	19	46	3	20	28	11	18	13.5	1.9	47°	0.0
15	27	13	18	40	9	19	45	10	21	46	10	22	16	6	11	15.7	3.7	20°	0.0
16	25	12	18	43	7	20	50	8	22	54	8	23	16	7	12	9.9	2.2	24°	0.0
17	26	12	17	44	9	19	52	10	20	56	9	22	15	4	10	11.7	3.1	26°	0.0
18	22	9	15	42	5	17	50	5	18	54	5	19	20	7	12	6.6	1.7	39°	0.0
19	16	9	13	22	9	14	21	6	11	24	9	14	89	17	46	14.0	4.0	32°	2.5
20	22	12	16	38	9	18	46	7	17	50	10	20	54	28	38	11.2	3.0	43°	0.3
21	21	10	15	40	8	17	49	6	16	52	9	19	82	36	53	8.4	1.4	48°	0.3
22	16	9	12	33	7	13	35	4	10	38	7	13	97	68	84	4.2	0.9	186°	5.6
23	15	8	11	29	6	12	32	4	10	35	7	13	94	49	79	5.8	1.4	166°	2.0
24	10	5	7	29	2	8	31	0	5	34	4	9	98	67	89	7.7	1.3	126°	27.2
25	8	2	5	18	1	5	22	1	3	25	1	6	98	70	90	17.5	2.3	149°	19.3
26	6	1	4	23	0	5	26	1	2	29	0	5	96	61	79	8.6	1.6	195°	6.1
27	14	2	7	26	-1	9	29	2	8	32	0	11	71	25	50	9.5	3.6	24°	0.3
28	20	8	13	43	7	15	52	2	13	55	7	16	45	18	33	10.7	3.1	37°	0.0
29	16	4	11	30	2	11	34	1	8	38	2	12	97	33	59	9.3	1.6	218°	4.3
30	16	4	9	36	2	12	43	3	12	46	2	15	100	40	67	8.3	1.9	27°	0.3
31	22	9	15	39	7	17	43	4	15	46	7	18	50	14	30	12.8	4.2	27°	0.0
Monthly Avg.	18	7	12	36	4	14	42	4	14	45	5	16	51	24	37	9.7	2.3	60°	
Monthly Total																			68.1
YTD [†] Avg.	18	7	12	36	4	14	42	4	14	45	5	16	51	24	37	9.7	2.3	60°	
YTD [†] Total																			68.1

[†] Year To Date

Note:





Solar Radiation Summary

January 2021

Latitude 25° 34' North, Longitude 80° 28' West, Elevation 2 (m)

Miami, Florida

Latitude 33° 54' North, Longitude 112° 08' West, Elevation 610 (m)

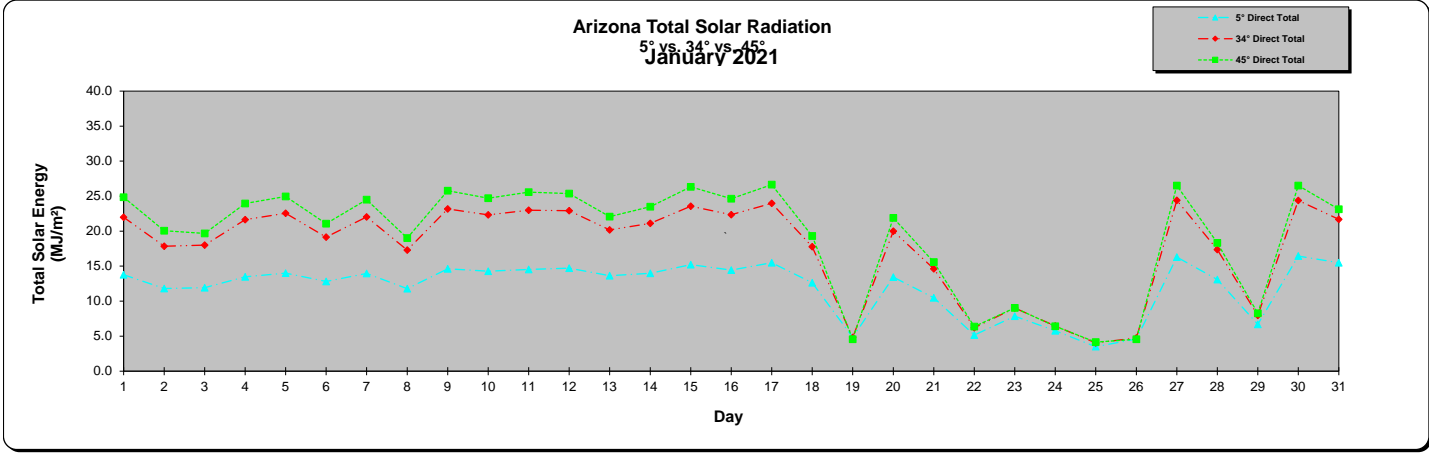
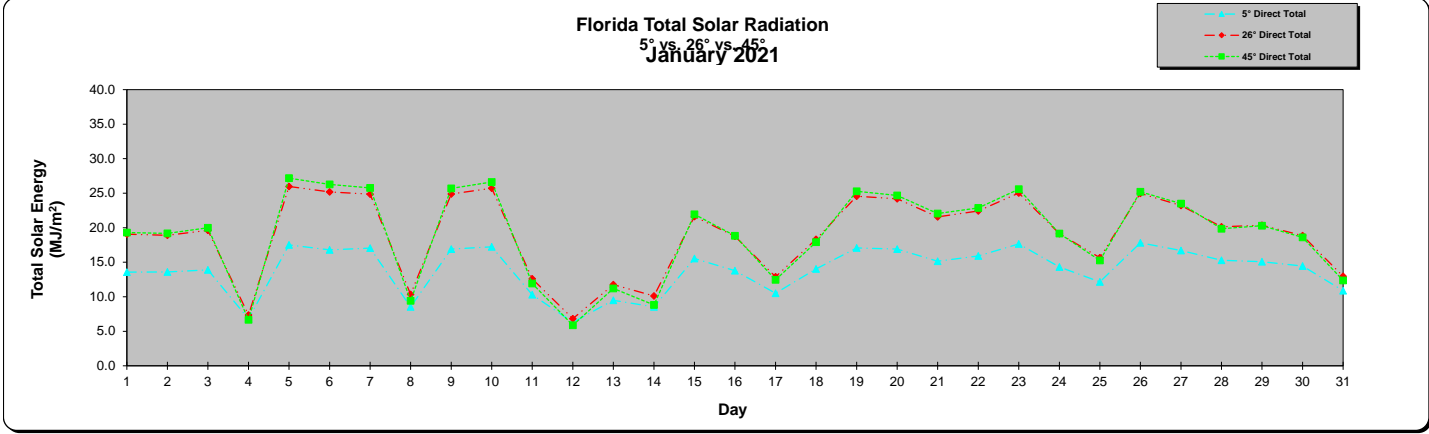
Phoenix, Arizona

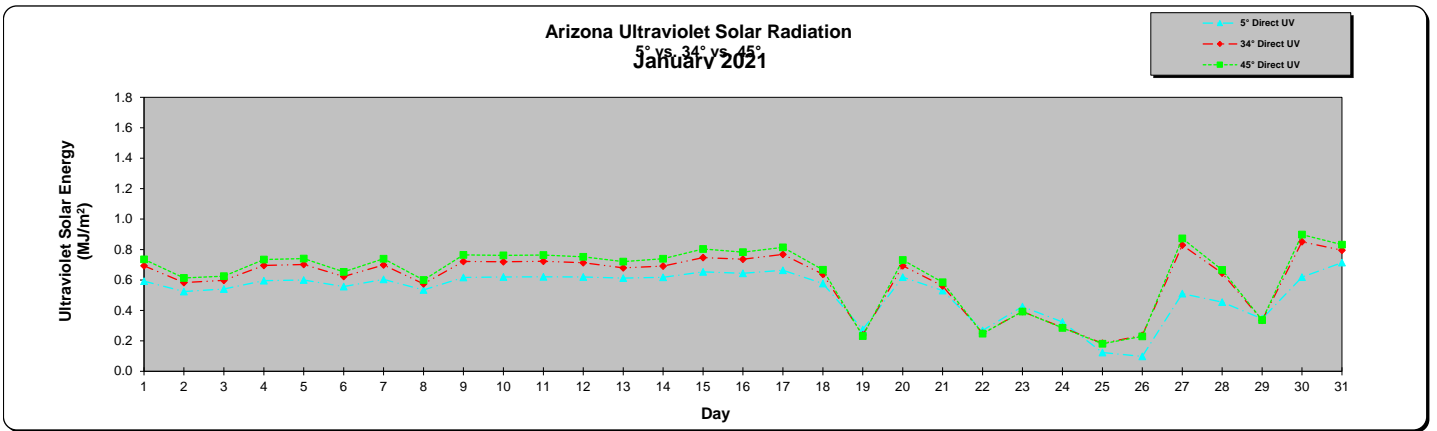
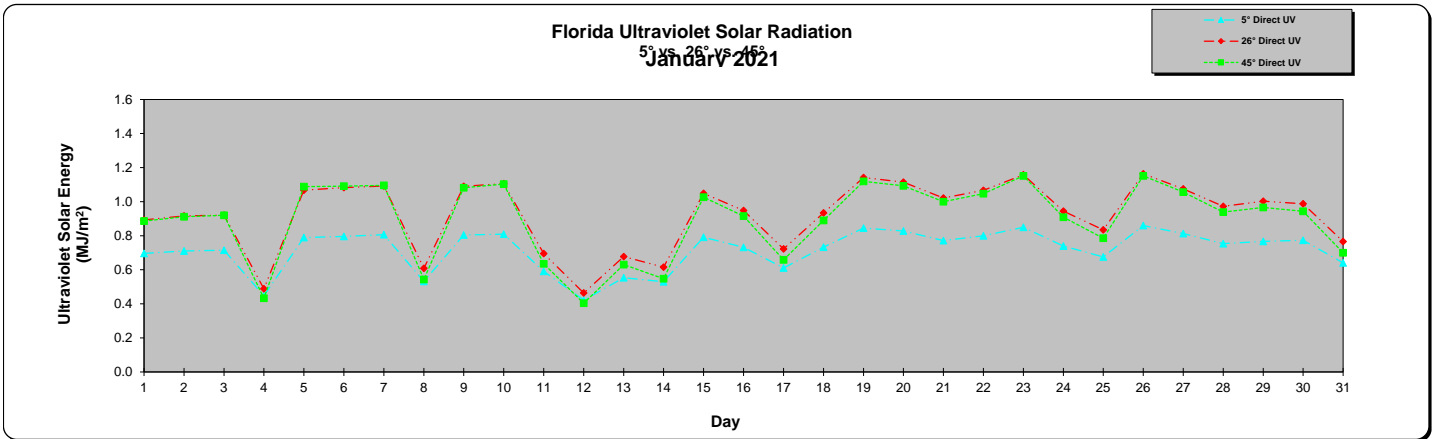
Solar Radiation Summary														
Month	Total Solar Radiation (MJ/m2)						Ultraviolet Solar Radiation (MJ/m ²)						EMMAQUA™	
	Direct			Underglass			Direct			Underglass				
Day	5°	26°	45°	5°	26°	45°	5°	26°	45°	5°	26°	45°	Total	UV
1	13.6	19.1	19.3	11.1	16.0	17.0	0.70	0.89	0.89	0.41	0.55	0.62		
2	13.6	18.9	19.2	11.1	15.9	16.9	0.71	0.92	0.91	0.42	0.57	0.64		
3	13.9	19.6	20.0	11.5	16.5	17.7	0.72	0.92	0.92	0.43	0.58	0.64		
4	6.8	7.4	6.7	5.6	5.8	5.7	0.45	0.49	0.43	0.26	0.29	0.30		
5	17.5	26.0	27.2	14.3	20.4	24.0	0.79	1.07	1.09	0.48	0.67	0.76		
6	16.8	25.2	26.3	14.3	20.2	24.0	0.80	1.08	1.09	0.50	0.71	0.76		
7	17.0	24.8	25.8	14.2	19.9	23.3	0.81	1.09	1.10	0.50	0.71	0.77		
8	8.5	10.3	9.4	7.1	8.1	8.3	0.53	0.61	0.54	0.32	0.38	0.38		
9	16.9	24.9	25.7	14.3	19.8	23.2	0.80	1.09	1.08	0.51	0.72	0.76		
10	17.2	25.7	26.6	14.7	20.4	24.0	0.81	1.11	1.10	0.51	0.72	0.77		
11	10.3	12.6	11.9	8.7	9.9	10.5	0.59	0.70	0.64	0.35	0.43	0.44		
12	6.3	6.8	5.9	5.4	5.5	5.1	0.42	0.46	0.40	0.25	0.29	0.28		
13	9.5	11.8	11.2	8.2	9.5	10.0	0.55	0.68	0.63	0.34	0.43	0.44		
14	8.5	10.1	8.8	7.3	7.9	7.8	0.53	0.62	0.55	0.33	0.39	0.38		
15	15.5	21.6	21.9	13.5	17.6	19.8	0.79	1.05	1.03	0.48	0.67	0.72		
16	13.8	18.8	18.8	11.7	15.1	16.9	0.73	0.95	0.92	0.45	0.60	0.64		
17	10.5	12.9	12.4	8.9	10.3	10.9	0.61	0.79	0.66	0.37	0.46	0.46		
18	14.0	18.3	17.9	11.8	14.6	16.0	0.73	0.93	0.89	0.45	0.60	0.62		
19	17.1	24.5	25.3	14.6	19.7	22.7	0.84	1.14	1.12	0.52	0.73	0.78		
20	16.9	24.2	24.7	14.2	19.4	22.3	0.83	1.11	1.09	0.51	0.72	0.77		
21	15.2	21.6	22.0	13.0	17.4	20.0	0.77	1.02	1.00	0.48	0.66	0.70		
22	15.9	22.4	22.9	13.5	18.0	20.7	0.80	1.07	1.05	0.50	0.69	0.73		
23	17.7	25.0	25.6	15.3	20.3	23.3	0.85	1.16	1.15	0.54	0.76	0.81		
24	14.3	19.1	19.2	12.2	15.4	17.2	0.74	0.94	0.91	0.46	0.61	0.64		
25	12.1	15.7	15.3	10.4	12.6	13.6	0.68	0.83	0.79	0.41	0.53	0.55		
26	17.8	25.0	25.2	15.1	20.0	22.8	0.86	1.16	1.15	0.53	0.75	0.81		
27	16.7	23.2	23.5	14.2	18.5	21.0	0.81	1.07	1.06	0.51	0.70	0.74		
28	15.3	20.1	19.9	12.7	17.2	17.8	0.75	0.97	0.94	0.47	0.63	0.66		
29	15.1	20.4	20.3	12.7	16.2	18.1	0.77	1.00	0.97	0.47	0.63	0.68		
30	14.4	18.9	18.6	11.9	15.0	16.5	0.77	0.99	0.94	0.47	0.62	0.66		
31	10.9	13.0	12.4	9.2	10.3	10.8	0.64	0.77	0.70	0.38	0.47	0.49		
Monthly Total	429.7	587.8	589.7	362.7	473.6	527.7	22.19	28.62	27.72	13.61	18.25	19.41		
YTD ¹ Total	429.7	587.8	589.7	362.7	473.6	527.7	22.19	28.62	27.72	13.61	18.25	19.41		

Solar Radiation Summary																		
Month		Total Solar Radiation (MJ/m2)						Ultraviolet Solar Radiation (MJ/m2)						EMMAQUA™				
		Direct			Underglass			Direct			Underglass			Total		UV		
Day		5°	34°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°	Total	UV
1	13.8	22.0	24.8	10.7	19.4	22.3	0.59	0.69	0.74	0.40	0.54	0.55	0	0.00				
2	11.8	17.9	20.1	9.2	15.7	18.0	0.52	0.58	0.61	0.36	0.45	0.45	74	1.58				
3	11.9	18.0	19.7	9.4	15.6	17.7	0.54	0.60	0.63	0.37	0.46	0.46	0	0.00				
4	13.5	21.6	23.9	10.6	18.8	21.6	0.60	0.70	0.73	0.40	0.54	0.54	168	3.52				
5	14.0	22.6	25.0	11.0	19.6	22.5	0.60	0.70	0.74	0.41	0.54	0.54	177	3.56				
6	12.8	19.2	21.1	10.2	16.8	18.9	0.56	0.62	0.65	0.38	0.48	0.48	0	0.00				
7	14.0	22.0	24.5	11.0	19.2	22.1	0.60	0.70	0.74	0.41	0.54	0.54	170	3.42				
8	11.8	17.3	19.0	9.4	15.0	16.9	0.54	0.58	0.60	0.37	0.44	0.43	98	1.98				
9	14.6	23.2	25.8	11.4	20.2	23.1	0.62	0.72	0.77	0.42	0.56	0.56	48	0.65				
10	14.3	22.3	24.7	11.3	19.6	22.2	0.62	0.72	0.76	0.42	0.56	0.56	0	0.00				
11	14.5	23.0	25.6	11.4	20.0	22.9	0.62	0.72	0.76	0.42	0.56	0.56	110	2.43				
12	14.7	22.9	25.4	11.5	19.9	22.6	0.62	0.71	0.75	0.42	0.55	0.55	171	3.41				
13	13.7	20.2	22.1	10.9	17.9	20.2	0.61	0.68	0.72	0.42	0.53	0.53	136	3.05				
14	14.0	21.1	23.5	11.1	18.6	21.3	0.62	0.69	0.74	0.42	0.54	0.54	135	3.12				
15	15.2	23.6	26.3	12.0	20.7	23.8	0.65	0.75	0.80	0.44	0.58	0.59	0	0.00				
16	14.4	22.3	24.6	11.5	19.5	22.3	0.64	0.74	0.78	0.44	0.57	0.57	171	3.68				
17	15.5	24.0	26.6	12.2	21.0	24.0	0.66	0.77	0.81	0.45	0.60	0.60	131	3.06				
18	12.6	17.8	19.3	10.3	15.8	17.5	0.58	0.64	0.67	0.40	0.49	0.48	76	2.02				
19	4.8	4.8	4.6	4.1	4.1	4.1	0.28	0.24	0.23	0.19	0.18	0.16	0	0.00				
20	13.4	20.0	21.9	10.5	17.5	19.7	0.62	0.69	0.73	0.42	0.53	0.53	0	0.00				
21	10.5	14.6	15.6	8.4	12.6	14.0	0.53	0.56	0.59	0.36	0.43	0.42	34	0.98				
22	5.2	6.2	6.4	4.1	5.2	5.6	0.27	0.25	0.25	0.18	0.19	0.18	0	0.00				
23	7.9	9.0	9.0	6.5	7.7	8.2	0.43	0.39	0.39	0.29	0.30	0.28	0	0.00				
24	5.8	6.5	6.4	4.6	5.4	5.7	0.32	0.29	0.29	0.22	0.22	0.20	0	0.00				
25	3.5	4.0	4.2	2.8	3.4	3.6	0.12	0.18	0.18	0.08	0.14	0.13	0	0.00				
26	4.6	4.7	4.6	3.9	4.0	4.1	0.10	0.24	0.23	0.06	0.18	0.16	0	0.00				
27	16.3	24.4	26.5	13.1	21.2	23.9	0.51	0.83	0.87	0.33	0.64	0.64	0	0.00				
28	13.1	17.4	18.3	10.7	15.0	16.5	0.46	0.65	0.67	0.28	0.49	0.48	0	0.00				
29	6.7	8.0	8.3	5.6	6.9	7.3	0.35	0.34	0.34	0.24	0.25	0.24	0	0.00				
30	16.4	24.4	26.5	12.8	21.2	23.9	0.62	0.85	0.90	0.42	0.66	0.66	0	0.00				
31	15.5	21.7	23.1	12.8	19.2	21.2	0.71	0.80	0.83	0.50	0.61	0.61	0	0.00				
Monthly Total	370.8	546.5	597.2	294.9	476.7	537.8	16.10	18.61	19.50	10.93	14.31	14.20	1698	36.47				
YTD ¹ Total	370.8	546.5	597.2	294.9	476.7	537.8	16.10	18.61	19.50	10.93	14.31	14.20	1698.08	36.47				

¹ Year To Date

Note: Total Solar Radiation - (290-3000 nm) Ultraviolet Solar Radiation - (295-385 nm).

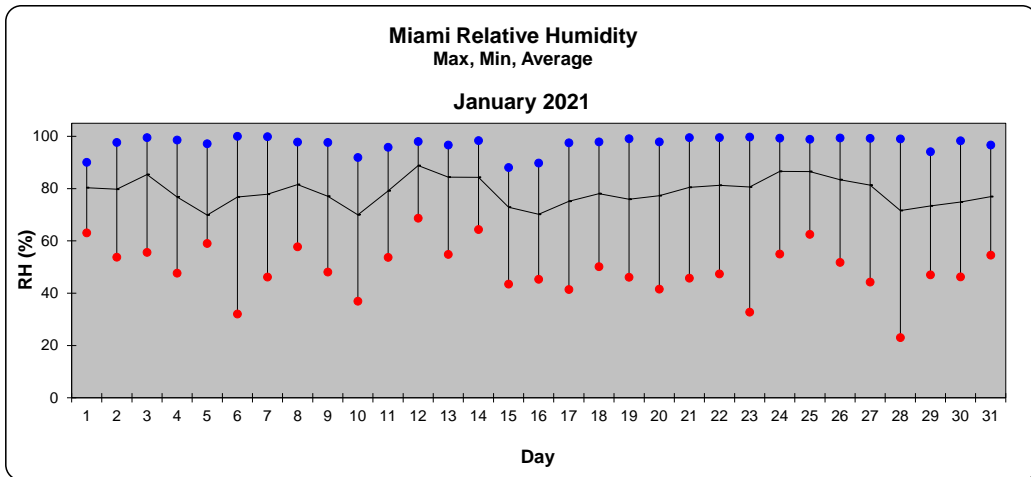
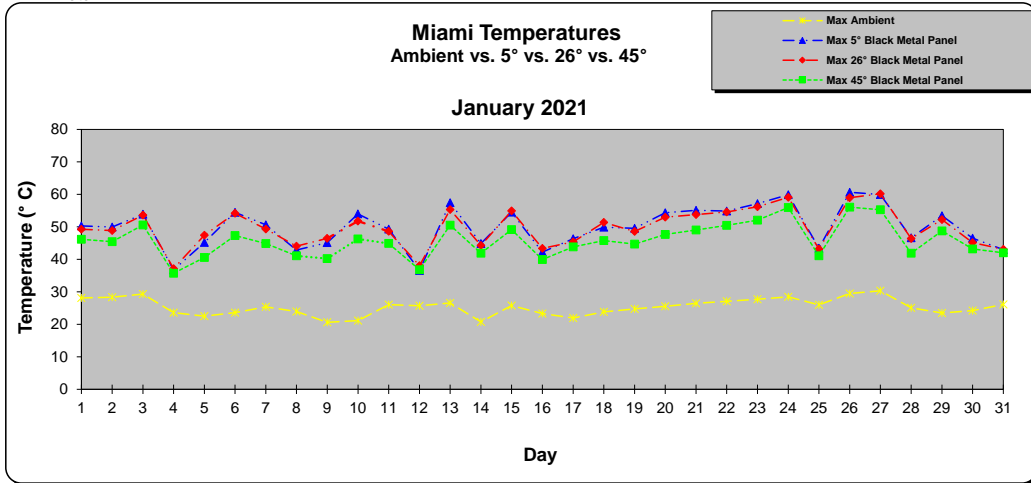




Latitude 25° 34' North, Longitude 80° 28' West, Elevation 2 (m)

AWSG	Temperature Summary												Climate Summary						
	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (° C)									Relative Humidity			Wind Speed		Wind Direction	Rainfall
Month	° C			5 °			26 °			45 °			%			m/sec		360°/0°=N	(mm)
January	° C			5 °			26 °			45 °			%			m/sec		360°/0°=N	(mm)
Day	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Avg.	Avg.	Total
1	28	22	25	50	21	28	49	21	27	46	20	26	90	63	80	25.2	3.2	122°	0.0
2	28	16	23	50	14	26	49	14	26	45	14	25	98	54	80	19.4	0.0	131°	0.0
3	29	15	21	54	14	26	54	14	26	51	13	24	100	56	85	16.2	0.0	174°	0.0
4	24	15	20	37	13	21	37	13	21	36	12	21	99	48	77	12.2	0.0	239°	0.0
5	23	8	15	45	6	20	47	6	20	41	6	18	97	59	70	16.9	0.0	242°	0.0
6	24	7	14	54	5	20	54	5	20	47	5	17	100	32	77	10.4	0.0	156°	0.0
7	25	9	18	51	7	23	49	7	23	45	7	21	100	46	78	17.6	0.0	112°	0.0
8	24	13	20	43	11	21	44	11	21	41	10	20	98	58	82	21.6	0.0	251°	0.0
9	21	9	15	45	6	18	46	6	18	40	6	17	98	48	77	17.6	0.0	247°	0.0
10	21	8	14	54	5	20	52	5	20	46	5	18	92	37	70	13.3	0.0	199°	0.0
11	26	11	19	49	10	22	49	10	22	45	9	21	96	54	79	13.3	0.0	133°	0.0
12	26	16	20	37	15	22	38	14	22	37	14	22	98	69	89	10.8	0.0	187°	0.0
13	27	16	19	57	15	23	55	15	23	51	15	22	97	55	84	13.6	0.7	211°	3.0
14	21	14	17	45	16	20	44	16	21	42	16	20	98	64	84	14.4	0.0	221°	1.8
15	26	16	20	55	18	27	55	17	27	49	17	25	88	43	73	12.9	0.0	252°	0.0
16	23	11	18	42	9	21	43	10	21	40	9	20	90	45	70	26.2	0.3	279°	0.0
17	22	9	15	46	9	18	45	8	18	44	8	18	98	41	75	12.2	0.0	153°	0.0
18	24	10	17	50	8	21	51	8	21	46	8	20	98	50	78	14.4	0.0	176°	0.3
19	25	9	16	50	7	21	49	7	20	45	6	18	99	46	76	19.4	0.0	78°	0.0
20	26	11	17	54	9	22	53	8	21	48	8	19	98	42	77	17.2	0.0	90°	0.0
21	26	10	17	55	8	22	54	8	22	49	8	20	100	46	80	15.4	0.0	135°	0.0
22	27	9	17	55	8	23	55	8	22	50	8	21	100	47	81	18.3	0.0	170°	0.0
23	28	11	18	57	10	24	56	9	24	52	9	22	100	33	81	12.2	0.0	165°	0.0
24	28	13	20	60	12	24	59	12	24	56	11	23	99	55	87	14.0	0.0	126°	0.0
25	26	15	20	43	14	23	43	14	22	41	13	22	99	62	87	17.2	0.0	98°	0.0
26	30	14	21	61	13	27	59	13	26	56	13	24	99	52	83	14.4	0.0	131°	0.3
27	30	15	22	60	14	27	60	14	27	55	13	25	99	44	81	18.0	0.0	183°	0.0
28	25	13	20	47	12	23	46	11	23	42	11	22	99	23	72	20.1	0.0	210°	0.3
29	24	12	16	53	11	21	52	11	21	49	11	19	94	47	73	17.6	0.0	155°	0.0
30	24	11	18	47	10	23	45	10	22	43	10	21	98	46	75	21.2	0.0	86°	0.0
31	26	17	21	43	16	23	43	15	23	42	15	23	97	55	77	20.1	0.1	127°	0.0
Monthly Avg.	25	12	18	50	11	23	50	11	22	46	11	21	97	49	79	16.6	0.1	169°	
Monthly Total																			5.6
YTD [†] Avg.	25	12	18	50	11	23	50	11	22	46	11	21	97	49	79	16.6	0.1	169°	
YTD [†] Total																			5.6

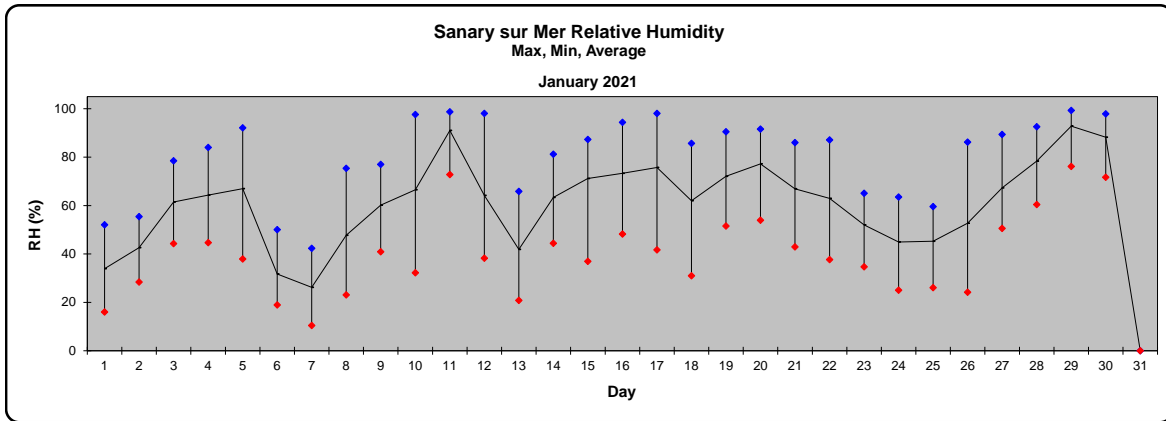
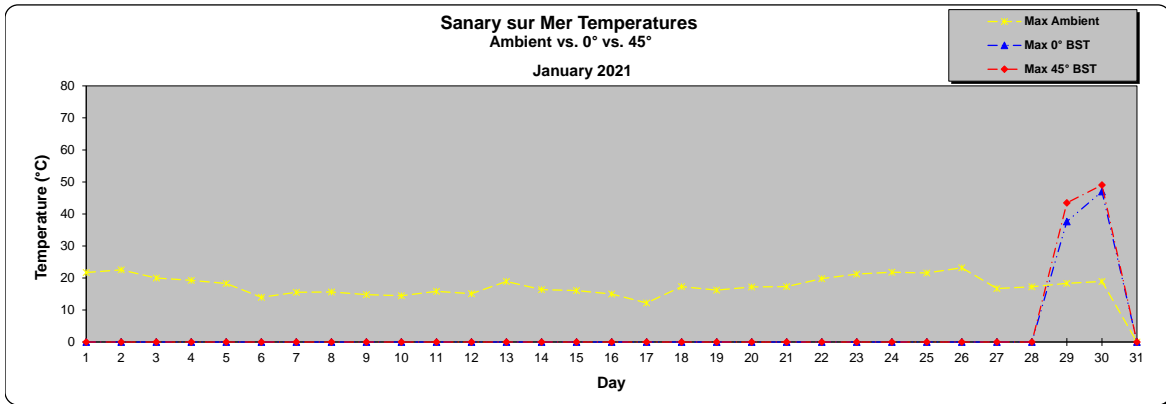
[†] Year To Date
Note:



AWSG	Temperature Summary																		Climate Summary									
	Ambient Temperature			Black Standard Temperature BST (°C)						Black Panel Temperature BPT (°C)						Black Metal Panel Temperature (ASTM G179) (°C)						Relative Humidity			Wind Speed		Wind Direction	Rainfall
	°C			0°			45°			0°			45°			0°			45°			%			(m/s)		360°/0°=N	(mm)
Month	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	Avg	Total
January																												
Day																												
1	22	11	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	52	16	34	4.7	0.9	298°	0.0	
2	23	11	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	55	28	43	5.0	0.8	274°	0.0	
3	20	10	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	79	44	61	4.5	0.8	52°	0.0	
4	19	10	14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	84	45	64	5.6	0.9	77°	0.0	
5	18	9	14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	92	38	67	7.4	1.2	340°	0.0	
6	14	5	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	50	19	32	10.4	2.3	273°	0.0	
7	16	3	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	42	10	26	9.7	1.5	292°	0.0	
8	16	5	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	75	23	48	7.3	1.4	327°	0.0	
9	15	7	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	77	41	60	6.8	1.6	83°	0.0	
10	14	8	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	98	32	66	6.0	1.7	78°	31.8	
11	16	9	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	99	73	91	6.4	1.2	82°	3.0	
12	15	6	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	98	38	64	9.0	1.3	288°	0.5	
13	19	7	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	66	21	42	6.6	1.2	48°	0.0	
14	16	8	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	81	44	63	7.2	1.8	84°	0.0	
15	16	8	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	87	37	71	6.2	1.2	72°	0.5	
16	15	5	9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	94	48	73	5.8	1.1	50°	6.1	
17	12	4	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	98	42	76	5.7	0.7	39°	23.6	
18	17	6	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	86	31	62	5.1	0.9	58°	0.5	
19	16	6	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	91	52	72	4.3	0.8	337°	0.0	
20	17	6	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	92	54	77	4.1	0.8	287°	0.0	
21	17	9	13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	86	43	67	6.2	1.3	81°	0.0	
22	20	9	14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	87	38	63	7.6	1.3	75°	0.0	
23	21	11	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	65	35	52	4.2	0.8	21°	0.0	
24	22	11	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	64	25	45	5.1	1.1	66°	0.0	
25	22	11	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	60	26	45	4.3	0.7	347°	0.0	
26	23	12	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	86	24	53	9.0	1.8	79°	4.6	
27	17	12	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	89	51	67	9.6	1.1	89°	0.0	
28	17	12	14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	93	60	78	3.3	0.4	92°	0.0	
29	18	11	14	38	9	17	43	9	17	39	9	16	40	8	16	44	10	17	47	9	17	99	76	93	4.2	0.7	62°	25.4
30	19	12	15	47	11	19	49	10	18	44	10	18	46	10	17	51	10	18	54	11	18	98	72	88	6.1	0.9	87°	0.0
31	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.0	
Monthly Avg.	18	8	13	42	10	18	46	10	17	41	10	17	43	9	16	48	10	17	50	10	18	81	40	61	6.2	1.1	148°	
Monthly Total																											96.0	
YTD [†] Avg.	18	8	13	42	10	18	46	10	17	41	10	17	43	9	16	48	10	17	50	10	18	81	40	61	6.2	1.1	148°	
YTD [†] Total																											96.0	

[†] Year To Date

Note: *No data available



**Solar Radiation Summary
January 2021**

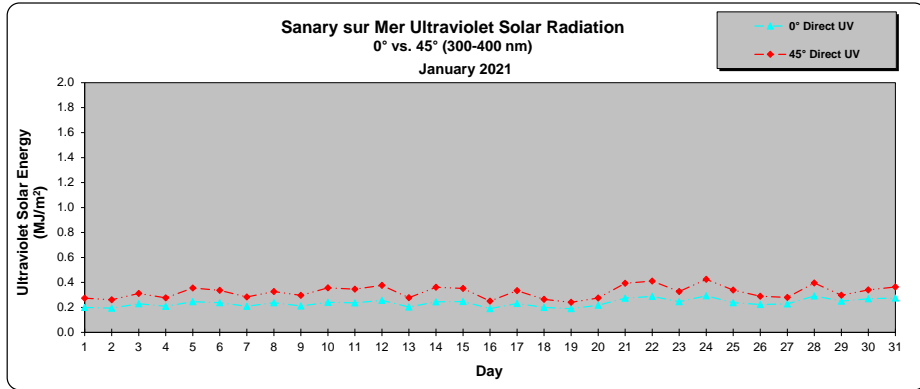
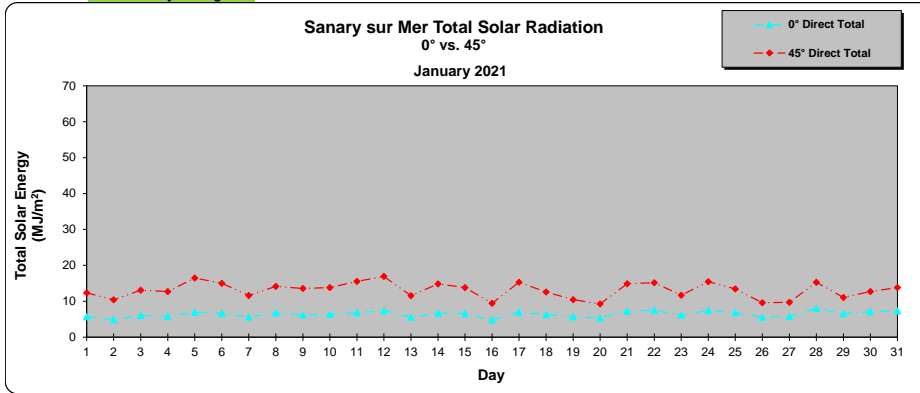
Sanary sur Mer, France

Latitude 43° 08' North, Longitude 05° 49' East, Elevation 110 (m)

Month	Solar Radiation Summary					
	Total Solar Radiation (MJ/m ²)		Ultraviolet Solar Radiation (MJ/m ²)			
	Direct		295-385 nm		300-400 nm	
Day	0°	45°	0°	45°	0°	45°
1	5.7	12.3	0.26	0.36	0.20	0.27
2	4.9	10.4	0.23	0.31	0.19	0.26
3	6.1	13.1	0.29	0.39	0.23	0.31
4	5.8	12.7	0.28	0.37	0.21	0.28
5	6.9	16.5	0.32	0.46	0.25	0.36
6	6.6	15.0	0.31	0.44	0.24	0.34
7	5.6	11.6	0.27	0.36	0.21	0.28
8	6.8	14.2	0.31	0.43	0.24	0.33
9	6.2	13.6	0.28	0.40	0.21	0.30
10	6.4	13.8	0.28	0.41	0.24	0.36
11	6.8	15.5	0.31	0.45	0.24	0.35
12	7.4	16.9	0.33	0.49	0.26	0.38
13	5.6	11.6	0.26	0.36	0.20	0.28
14	6.7	14.8	0.31	0.44	0.25	0.36
15	6.6	13.8	0.30	0.43	0.25	0.35
16	4.8	9.4	0.24	0.30	0.19	0.25
17	7.0	15.3	0.27	0.39	0.23	0.33
18	6.3	12.6	0.26	0.35	0.20	0.26
19	5.7	10.5	0.25	0.30	0.19	0.24
20	5.4	9.3	0.27	0.34	0.22	0.27
21	7.3	14.9	0.34	0.48	0.27	0.39
22	7.5	15.2	0.36	0.51	0.29	0.41
23	6.2	11.7	0.31	0.41	0.25	0.33
24	7.5	15.5	0.36	0.51	0.29	0.42
25	6.9	13.4	0.31	0.43	0.24	0.34
26	5.5	9.6	0.27	0.35	0.22	0.29
27	5.8	9.7	0.29	0.36	0.23	0.28
28	8.0	15.3	0.38	0.51	0.29	0.40
29	6.6	11.1	0.33	0.40	0.25	0.30
30	7.1	12.7	0.35	0.44	0.27	0.34
31	7.4	13.8	0.37	0.49	0.28	0.36
Monthly Total	198.9	405.8	9.30	12.66	7.31	10.02
YTD¹ Total	198.9	405.8	9.30	12.66	7.31	10.02

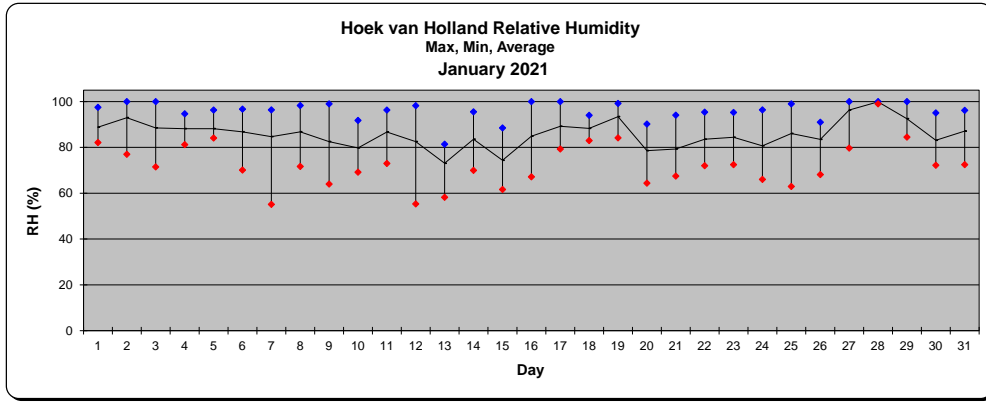
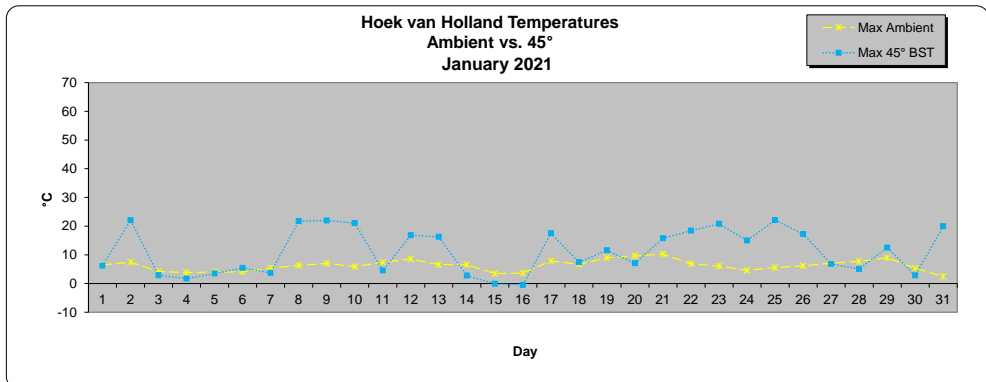
¹ Year To Date Total Solar Radiation - (290-3000 nm) Ultraviolet Solar Radiation - (295-385 nm) or (300-400 nm).

Note: Data = 10yr average



Month	Temperature Summary						Climate Summary						
	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (°C)			Relative Humidity			Wind Speed		Wind Direction	Rainfall
January	°C			45 °			%			(m/s)		360°/0° = N	(mm)
Day	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	Avg	Total
1	6	1	5	6	-7	0	98	82	89	7.7	2.8	229°	2.3
2	7	1	5	22	-6	1	100	77	93	5.8	1.5	168°	2.5
3	4	3	3	3	-3	0	100	72	89	9.1	3.2	36°	0.0
4	4	2	3	2	-2	-1	95	81	88	11.2	5.5	24°	1.0
5	4	2	3	3	-2	-1	96	84	88	9.5	4.5	30°	0.0
6	4	2	3	5	-4	-1	97	70	87	7.7	2.8	5°	0.3
7	5	1	4	4	-3	0	96	55	85	9.3	3.9	317°	8.9
8	6	-1	4	22	-9	0	98	72	87	8.3	2.3	353°	1.3
9	7	0	4	22	-8	0	99	64	83	7.5	1.7	324°	0.5
10	6	3	5	21	-4	2	92	69	80	6.8	3.3	236°	0.0
11	7	4	6	5	0	2	96	73	87	10.7	5.1	204°	1.8
12	9	5	7	17	-1	4	98	55	83	14.7	5.8	281°	12.5
13	7	5	6	16	-1	3	81	58	73	10.4	5.6	275°	0.0
14	7	0	2	3	-6	-2	96	70	84	7.2	2.5	59°	1.5
15	4	0	2	0	-6	-3	89	62	74	7.6	2.5	343°	0.0
16	4	0	2	0	-4	-2	100	67	85	11.1	4.8	165°	1.3
17	8	1	6	18	-4	3	100	79	89	8.8	4.4	274°	3.0
18	7	5	6	7	-1	2	94	83	88	9.2	4.3	216°	0.5
19	9	5	7	12	1	4	99	84	93	16.8	8.7	186°	9.4
20	10	7	8	7	3	4	90	64	79	15.3	8.6	161°	0.0
21	10	4	7	16	-1	4	94	67	79	19.1	7.9	178°	8.4
22	7	3	5	18	-2	3	95	72	84	9.5	4.3	209°	1.8
23	6	2	4	21	-2	2	95	73	84	9.5	3.5	206°	1.3
24	5	1	3	15	-3	0	96	66	81	9.4	3.3	235°	1.8
25	6	-1	3	22	-9	1	99	63	86	13.2	4.0	276°	1.8
26	6	3	5	17	-1	2	91	68	84	14.0	6.3	237°	0.0
27	7	2	5	7	-2	1	100	80	96	11.7	4.6	206°	1.8
28	8	5	6	5	1	3	100	99	100	6.1	1.6	103°	13.0
29	9	5	8	12	1	5	100	85	93	14.4	6.2	228°	9.9
30	5	-1	1	3	-6	-2	95	72	83	10.4	4.1	44°	0.8
31	2	-4	-1	20	-11	-2	96	73	87	7.1	2.8	55°	0.0
Monthly Avg.	6	2	4	11	-3	1	96	72	86	10.3	4.3	189°	
Monthly Total													87.1
YTD[†] Avg.	6	2	4	11	-3	1	96	72	86	10.3	4.3	189°	
YTD[†] Total													87.1

[†] Year To Date For Pollution (SO2, Nox, O3) visit www.lml.rivm.nl
Note: = 5 year average



North Sea Corrosion Test Centre
Solar Radiation Summary
January 2021

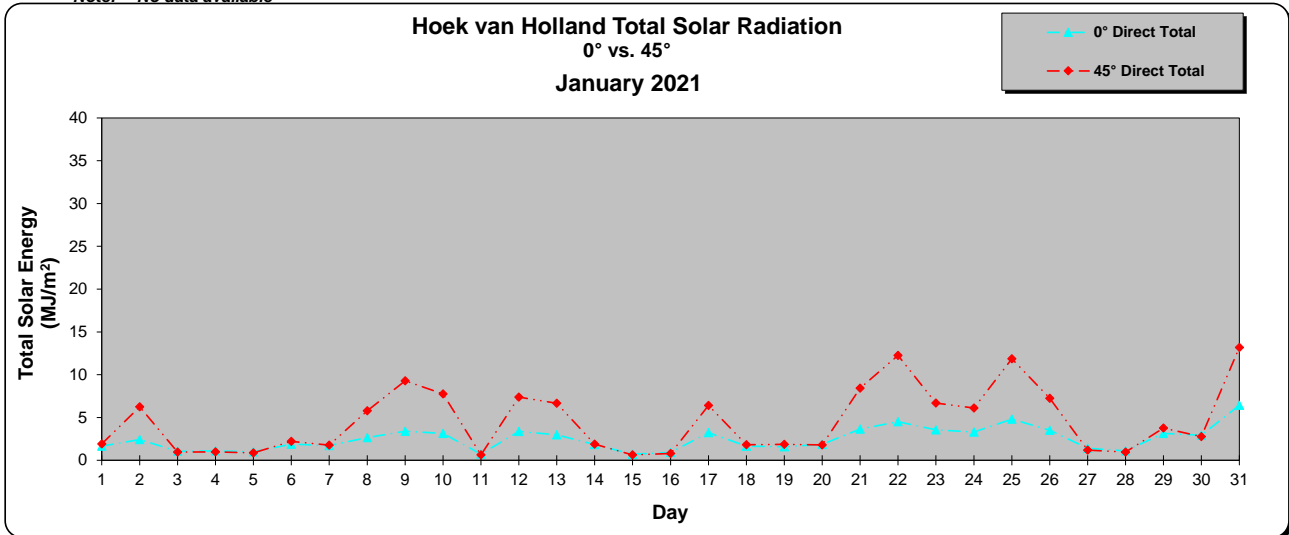
Hoek van Holland, The Netherlands

Latitude 51° 57' North, Longitude 04° 10' East Elevation 6 (m)

AWSG Solar Radiation Summary		
Month	Total Solar Radiation (MJ/m ²)	
January	Direct	
Day	0°	45°
1	1.7	1.9
2	2.4	6.3
3	1.1	1.0
4	1.1	1.0
5	1.0	0.9
6	1.9	2.2
7	1.7	1.8
8	2.6	5.8
9	3.4	9.3
10	3.1	7.8
11	0.7	0.6
12	3.4	7.4
13	3.0	6.7
14	1.8	1.9
15	0.7	0.6
16	0.9	0.8
17	3.2	6.4
18	1.7	1.8
19	1.6	1.9
20	1.9	1.8
21	3.7	8.4
22	4.5	12.3
23	3.6	6.7
24	3.3	6.1
25	4.8	11.9
26	3.5	7.2
27	1.4	1.2
28	1.1	1.0
29	3.1	3.8
30	2.9	2.8
31	6.4	13.2
Monthly Total	77.3	142.1
YTD[†] Total	77.3	142.1

[†] Year To Date Total Solar Radiation - (290-3000nm)

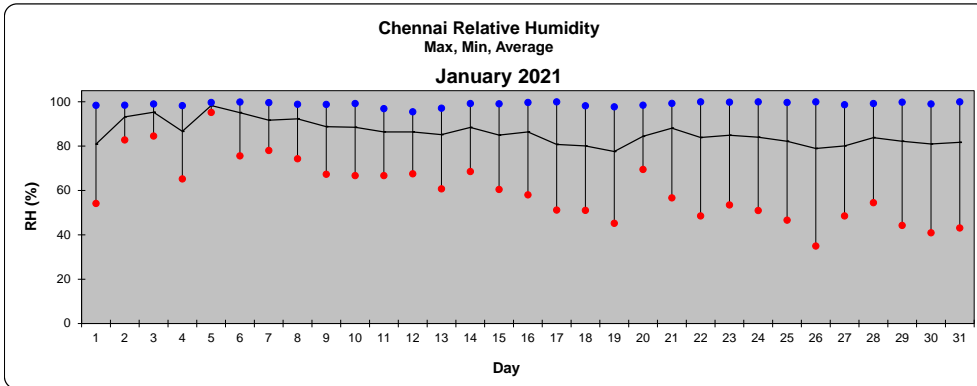
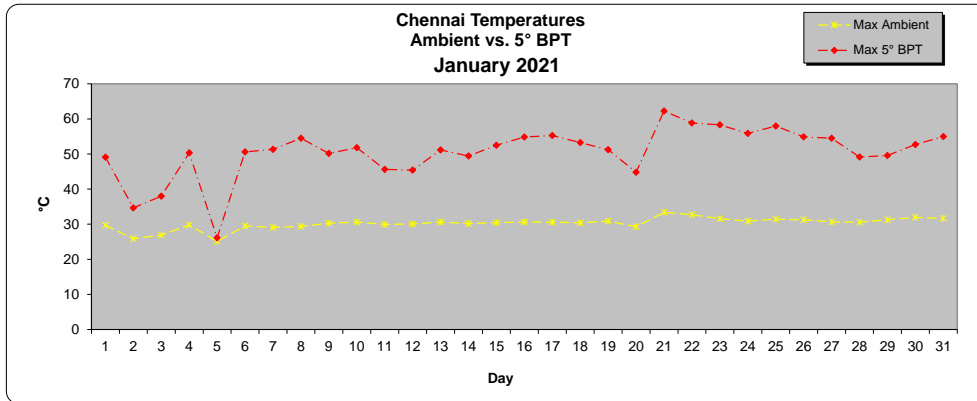
Note: * No data available



Month	Temperature Summary						Climate Summary						
	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (°C)			Relative Humidity			Wind Speed		Wind Direction	Rainfall
January	° C			5 °			%			(m/s)		360°/70° = N	(mm)
Day	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	Avg	Total
1	30	22	25	49	19	27	98	54	81	5.7	1.0	354°	0.0
2	26	23	24	35	21	24	99	83	93	4.3	1.0	346°	15.0
3	27	24	25	38	22	24	99	85	95	3.9	0.9	340°	10.2
4	30	23	26	50	21	27	98	65	87	4.8	1.1	12°	0.3
5	25	24	24	26	23	23	100	95	98	3.4	1.0	342°	52.3
6	30	24	26	51	23	27	100	76	95	3.2	0.9	3°	5.6
7	29	24	26	51	23	28	100	78	92	3.3	0.9	6°	5.1
8	29	25	26	55	23	27	99	74	92	4.1	0.9	355°	1.5
9	30	24	27	50	22	28	99	67	89	4.9	0.9	13°	0.0
10	31	25	27	52	23	28	99	67	89	4.6	1.0	2°	0.0
11	30	25	27	46	24	28	97	67	86	4.5	1.4	358°	0.0
12	30	25	27	45	23	28	96	68	86	6.6	1.6	6°	0.0
13	31	24	26	51	22	28	97	61	85	4.5	1.2	7°	0.0
14	30	24	26	49	22	28	99	69	88	3.2	1.2	9°	0.0
15	30	23	26	52	21	28	99	61	85	3.5	0.9	11°	0.0
16	31	22	25	55	20	27	100	58	86	4.0	0.8	8°	0.0
17	31	22	25	55	19	28	100	51	81	4.5	0.8	342°	0.0
18	30	21	25	53	18	28	98	51	80	4.5	0.9	348°	0.0
19	31	22	26	51	20	29	98	45	78	4.1	1.0	359°	0.0
20	29	23	26	45	21	27	99	70	84	3.4	1.0	354°	0.0
21	33	23	27	62	21	31	99	57	88	3.1	0.8	6°	0.0
22	33	24	28	59	22	31	100	49	84	4.0	0.7	49°	0.0
23	32	23	26	58	21	29	100	53	85	3.8	0.8	17°	0.0
24	31	22	26	56	19	29	100	51	84	3.0	0.7	343°	0.0
25	31	22	26	58	19	29	100	47	82	3.5	0.6	11°	0.0
26	31	21	25	55	19	28	100	35	79	4.9	0.8	8°	0.0
27	31	21	25	55	18	28	99	49	80	4.4	0.8	349°	0.0
28	31	22	25	49	19	27	99	54	84	4.4	0.9	355°	0.0
29	31	22	26	50	20	28	100	44	82	4.1	0.9	5°	0.0
30	32	23	26	53	20	29	99	41	81	3.9	0.9	6°	0.0
31	32	22	26	55	20	29	100	43	82	4.0	0.9	2°	0.0
Monthly Avg.	30	23	26	51	21	28	99	60	86	4.1	0.9	152°	
Monthly Total													89.9
YTD [†] Avg.	30	23	26	51	21	28	99	60	86	4.4	0.9	152°	
YTD [†] Total													89.9

[†] Year To Date

Note: * Data Unavailable





ATLAS

WEATHERING SERVICES GROUP



Solar Radiation Summary January 2021 Chennai, India

Latitude 12° 35' North, Longitude 79° 48' East Elevation 45 (m)

AWSG Solar Radiation Summary			
Month	Total Solar Radiation (MJ/m ²)	Ultraviolet Solar Radiation (MJ/m ²)	
January	Direct	295-385 nm	300-400 nm
Day	5°	5°	
1	15.3	0.74	0.83
2	4.0	0.29	0.33
3	3.6	0.27	0.30
4	12.9	0.71	0.79
5	2.0	0.18	0.20
6	9.5	0.60	0.66
7	11.6	0.69	0.77
8	10.1	0.60	0.67
9	12.4	0.71	0.80
10	10.72	0.61	0.68
11	10.8	0.63	0.70
12	11.5	0.67	0.74
13	15.7	0.82	0.92
14	13.0	0.70	0.79
15	16.9	0.87	0.97
16	16.1	0.83	0.93
17	20.2	0.99	1.10
18	19.6	0.97	1.08
19	19.2	0.93	1.04
20	10.7	0.61	0.68
21	18.4	0.94	1.04
22	18.7	0.90	1.01
23	16.5	0.82	0.91
24	17.7	0.86	0.95
25	18.2	0.90	1.00
26	21.0	0.98	1.09
27	19.5	0.88	0.99
28	15.2	0.73	0.82
29	16.7	0.81	0.90
30	20.2	0.94	1.05
31	19.2	0.92	1.02
Monthly Total	447.2	23.10	25.78
YTD¹ Total	447.2	23.10	25.78

¹ Year To Date Total Solar Radiation - (290-3000nm)

Note:

