



ATLAS

WEATHERING SERVICES GROUP

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

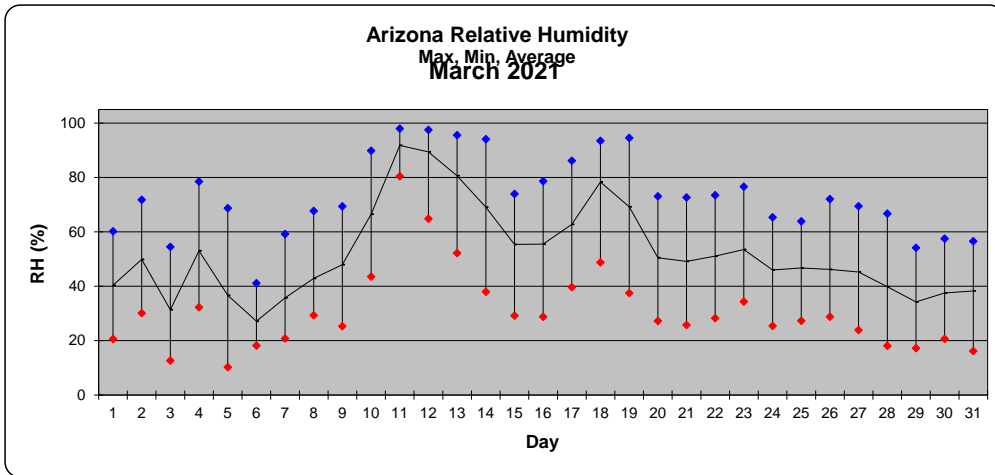
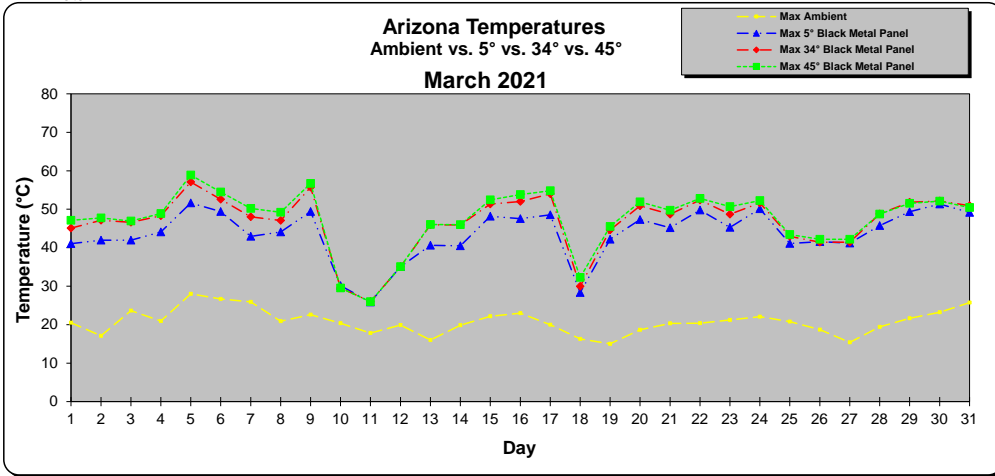


Weather Summary March 2021 Phoenix, Arizona

Month	Temperature Summary												Climate Summary						
	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (° C)									Relative Humidity		Wind Speed		Wind Direction	Rainfall	
March	(° 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.	°	Total
1	21	8	14	41	6	18	45	6	19	47	6	20	60	21	40	8.2	1.9	98°	0.0
2	17	8	12	42	5	14	47	5	15	48	5	15	72	30	50	13.6	2.0	49°	3.3
3	24	10	16	42	7	19	47	7	20	47	7	21	55	13	31	11.8	3.2	12°	0.0
4	21	6	14	44	4	18	48	5	20	49	5	20	79	32	53	5.6	1.4	74°	0.0
5	28	10	19	52	6	23	57	7	25	59	7	25	69	10	37	7.6	1.9	41°	0.0
6	27	14	20	49	9	23	53	10	24	54	10	25	41	18	27	7.4	2.2	48°	0.0
7	26	11	18	43	8	21	48	9	23	50	9	23	59	21	36	9.1	2.0	180°	0.0
8	21	10	16	44	8	19	47	8	20	49	8	20	68	29	43	7.6	1.6	42°	0.0
9	23	8	16	49	7	20	56	7	22	57	7	22	69	25	48	8.3	1.6	39°	0.0
10	20	12	15	30	12	17	30	12	17	30	12	17	90	44	67	9.7	2.9	24°	5.8
11	18	14	16	26	13	17	26	14	17	26	14	17	98	81	92	4.7	1.2	140°	10.4
12	20	13	16	35	13	17	35	13	17	35	13	17	98	65	89	9.0	1.3	84°	23.4
13	16	9	12	41	7	13	46	7	14	46	8	14	96	52	81	16.0	2.0	111°	18.3
14	20	8	14	40	7	17	46	7	18	46	7	19	94	38	69	6.6	1.7	57°	0.3
15	22	10	16	48	9	20	51	9	21	52	9	22	74	29	55	6.6	2.1	8°	0.0
16	23	10	16	48	8	20	52	8	21	54	8	22	79	29	56	7.4	1.9	16°	0.0
17	20	10	15	49	8	19	54	8	20	55	9	21	86	40	63	6.6	1.2	331°	0.0
18	16	7	11	28	6	12	30	6	12	32	6	12	94	49	78	10.3	1.9	135°	24.1
19	15	8	10	42	6	14	45	7	14	46	7	15	95	38	69	9.8	1.8	230°	1.0
20	19	7	13	47	5	18	51	5	19	52	5	19	73	27	51	7.8	2.1	22°	0.0
21	20	9	14	45	7	19	49	7	20	50	7	21	73	26	49	7.1	1.9	9°	0.0
22	20	9	15	50	7	19	52	8	19	53	8	20	74	28	51	6.7	1.9	23°	0.0
23	21	9	15	45	7	18	49	8	19	51	8	19	77	34	54	10.9	2.1	6°	0.0
24	22	9	15	50	8	21	52	8	22	52	8	22	65	25	46	7.5	2.1	36°	0.0
25	21	10	16	41	8	18	43	8	18	43	9	19	64	27	47	4.5	1.2	30°	0.0
26	19	9	14	42	2	13	41	3	14	42	3	14	72	29	46	8.2	1.7	187°	0.0
27	15	5	10	41	2	13	41	3	14	42	3	14	69	24	45	11.7	1.9	210°	0.0
28	19	4	12	46	2	18	49	3	19	49	3	19	67	18	40	6.7	1.9	12°	0.0
29	22	8	15	49	5	20	52	6	21	52	6	21	54	17	34	8.4	1.9	356°	0.0
30	23	8	16	41	6	21	52	6	22	52	6	22	58	21	38	6.3	1.7	30°	0.0
31	26	11	18	49	8	22	51	9	23	50	9	23	57	16	38	7.8	1.8	33°	0.0
Monthly Avg.	21	9	15	44	7	18	47	7	19	47	8	19	73	31	52	8.4	1.9	86°	
Monthly Total																			86.6
YTD [†] Avg.	20	8	14	40	6	16	46	6	17	47	6	18	55	23	39	9.2	2.2	82°	
YTD [†] Total																			154.7

[†] Year To Date

Note:





Solar Radiation Summary

March 2021

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

Miami, Florida

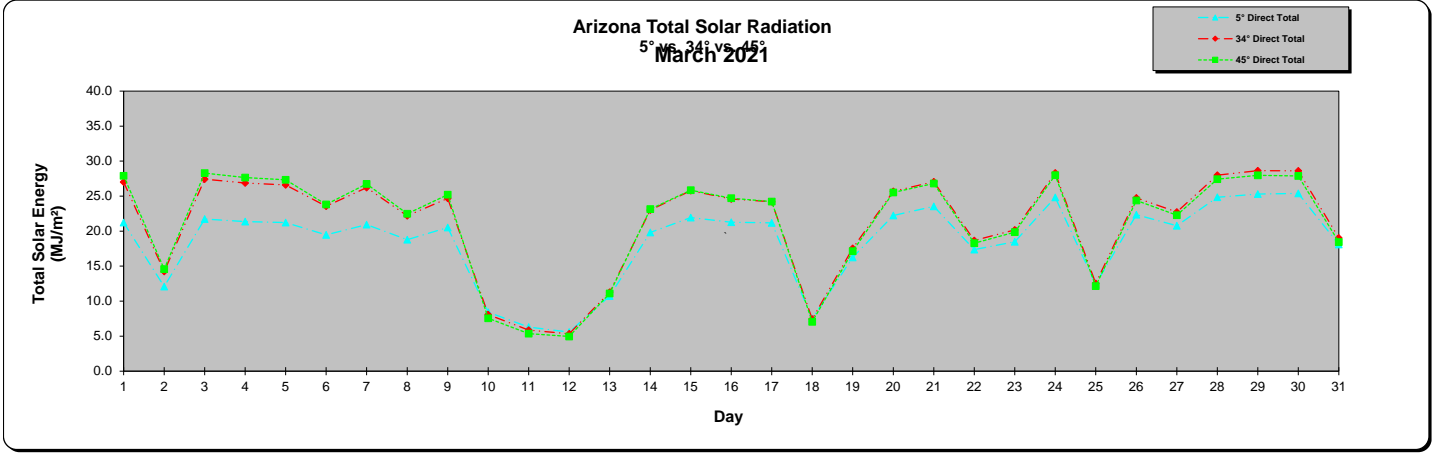
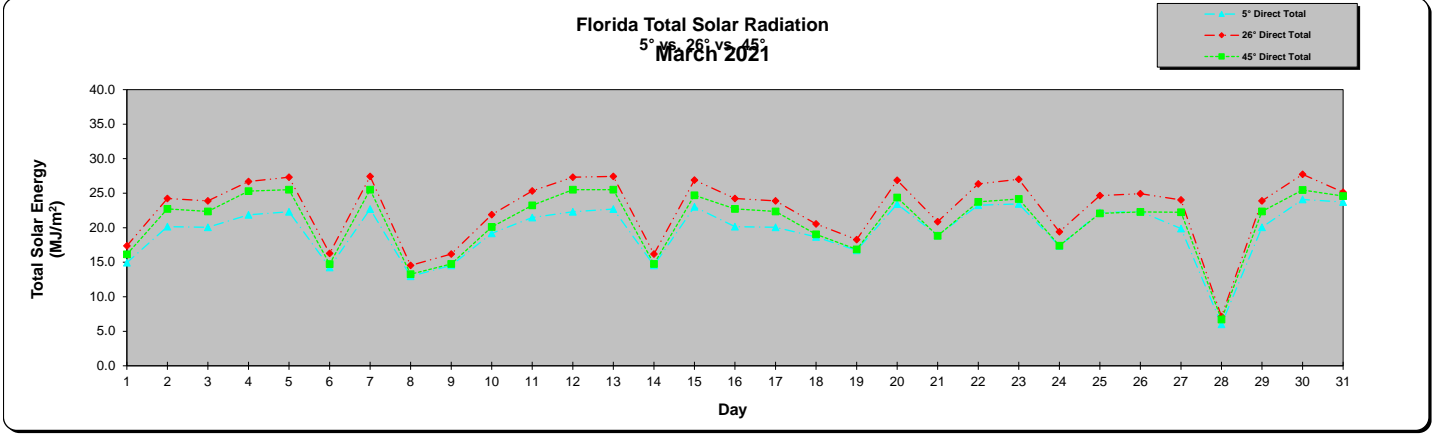
Latitude 33° 54' North, Longitude 112° 08' West, Elevation 610 (m)

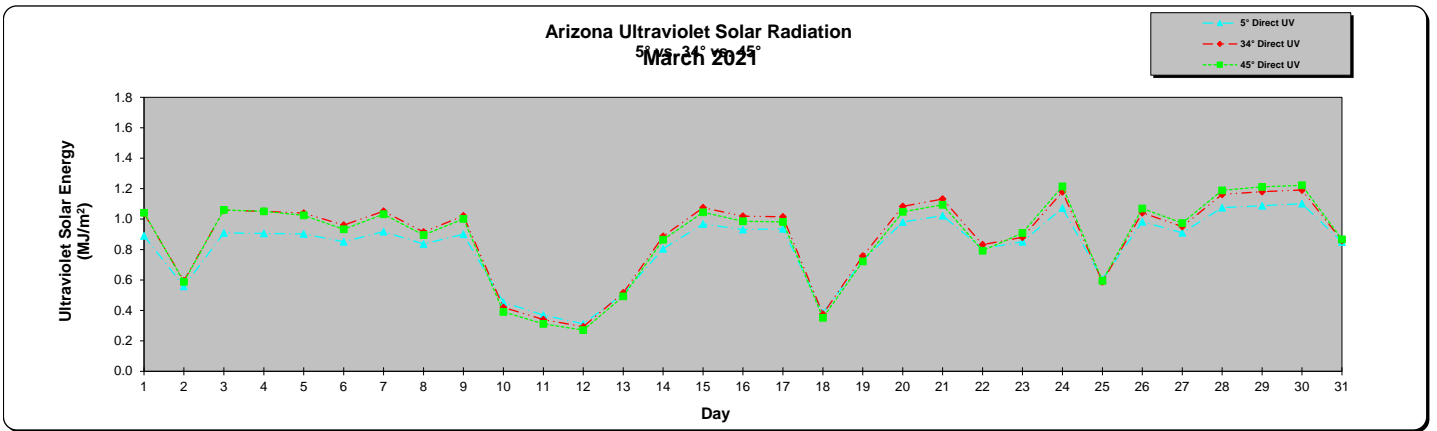
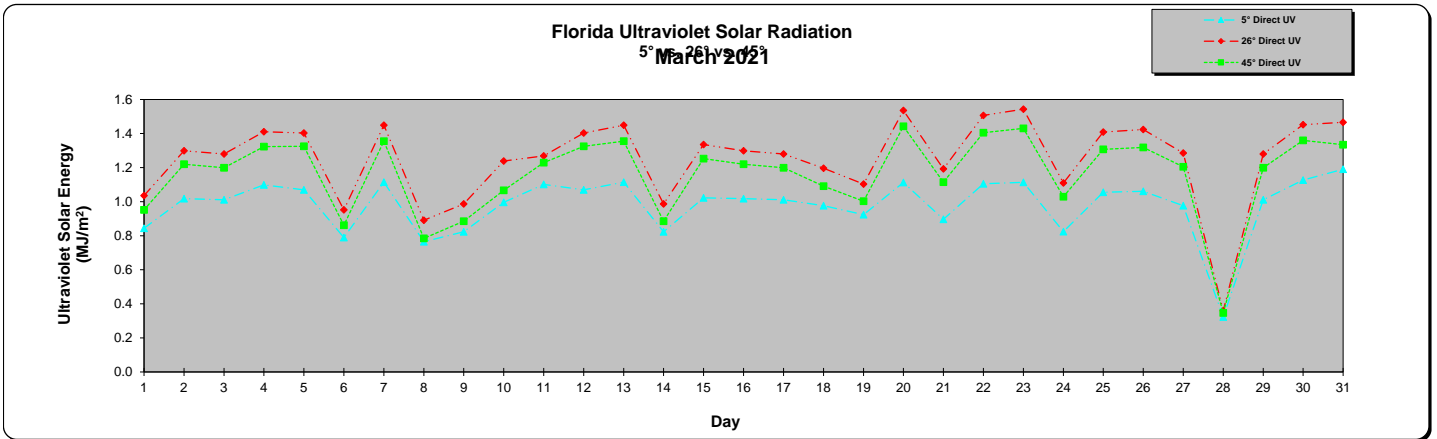
Phoenix, Arizona

AWSG	Solar Radiation Summary											
	Total Solar Radiation (MJ/m ²)						Ultraviolet Solar Radiation (MJ/m ²)					
	Direct			Underglass			Direct			Underglass		
Month	5°	26°	45°	5°	26°	45°	5°	26°	45°	5°	26°	45°
March	14.9	17.4	16.2	12.2	13.7	14.1	0.84	1.04	0.95	0.52	0.63	0.55
1	20.1	24.2	22.7	16.7	19.2	19.8	1.02	1.30	1.22	0.63	0.80	0.70
2	20.1	23.9	22.3	16.4	18.8	19.3	1.01	1.28	1.20	0.62	0.79	0.70
3	21.9	26.7	25.3	18.1	21.1	21.8	1.10	1.41	1.32	0.67	0.87	0.79
4	22.3	27.3	25.5	18.8	21.5	22.2	1.07	1.40	1.32	0.66	0.87	0.78
5	14.2	16.3	14.7	11.6	12.5	12.5	0.79	0.95	0.86	0.47	0.57	0.50
6	22.7	27.4	25.5	19.3	21.8	22.3	1.11	1.45	1.36	0.69	0.90	0.80
7	13.0	14.5	13.3	10.7	11.1	11.1	0.76	0.89	0.78	0.45	0.53	0.39
8	14.5	16.2	14.7	12.0	12.6	12.5	0.82	0.99	0.89	0.49	0.60	0.52
9	19.2	21.9	20.1	15.6	17.1	17.1	1.00	1.24	1.07	0.60	0.76	0.67
10	21.5	25.3	23.2	18.0	20.0	20.0	1.10	1.27	1.23	0.66	0.86	0.76
11	22.3	27.3	25.5	18.8	21.5	22.2	1.07	1.40	1.32	0.66	0.87	0.78
12	22.7	27.4	25.5	19.3	21.8	22.3	1.11	1.45	1.36	0.69	0.90	0.80
13	14.5	16.2	14.7	12.0	12.6	12.5	0.82	0.99	0.89	0.49	0.60	0.52
14	23.0	26.9	24.7	18.9	22.6	20.0	1.02	1.34	1.25	0.63	0.87	0.86
15	20.1	24.2	22.7	16.7	19.2	19.8	1.02	1.30	1.22	0.63	0.80	0.70
16	20.1	23.9	22.3	16.4	18.8	19.3	1.01	1.28	1.20	0.62	0.79	0.70
17	18.7	20.5	19.0	16.0	16.9	16.9	0.98	1.20	1.09	0.61	0.76	0.60
18	16.7	18.3	16.9	14.4	14.9	14.7	0.92	1.10	1.00	0.57	0.69	0.59
19	23.4	26.9	24.4	14.5	19.7	17.5	1.11	1.54	1.44	0.69	1.00	1.00
20	18.9	20.9	18.8	11.7	15.3	13.6	0.90	1.19	1.11	0.56	0.77	0.77
21	23.3	26.4	23.7	14.4	19.2	17.1	1.11	1.51	1.40	0.69	0.98	0.97
22	23.5	27.0	24.2	14.5	19.6	17.6	1.11	1.54	1.43	0.69	1.00	0.99
23	17.3	19.4	17.4	10.8	14.1	12.6	0.82	1.11	1.03	0.51	0.72	0.71
24	22.2	24.7	22.1	13.8	17.9	16.0	1.06	1.41	1.31	0.65	0.92	0.90
25	22.3	24.9	22.3	13.8	18.0	16.2	1.06	1.42	1.32	0.66	0.93	0.91
26	19.9	24.0	22.2	17.1	19.7	19.3	0.98	1.29	1.21	0.61	0.80	0.72
27	6.0	7.1	6.7	4.9	5.6	5.5	0.32	0.36	0.35	0.19	0.24	0.21
28	20.1	23.9	22.3	16.4	19.3	18.8	1.01	1.28	1.20	0.62	0.79	0.70
29	24.1	27.7	25.5	19.8	22.0	21.9	1.13	1.45	1.36	0.70	0.91	0.80
30	23.7	25.1	24.6	19.5	18.9	19.9	1.19	1.47	1.33	0.73	0.91	0.77
31	607.3	704.0	649.3	473.1	547.1	536.4	30.38	38.83	36.02	18.65	24.45	22.16
Monthly Total												
YTD ¹ Total	1467.9	1832.4	1761.6	1191.9	1452.2	1524.7	75.60	96.63	91.18	46.29	60.84	57.96

AWSG	Solar Radiation Summary																			
	Total Solar Radiation (MJ/m ²)									Ultraviolet Solar Radiation (MJ/m ²)									EMMAQUA™ (MJ/m ²)	
	Direct			Underglass			Direct			Underglass			Direct			Underglass			Total	UV
Month	5°	34°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°	Total	UV
March	21.2	27.0	27.9	17.6	22.9	24.6	0.89	1.04	1.04	0.65	0.77	0.75	186	5.06						
1	12.1	14.2	14.6	9.8	11.9	12.4	0.56	0.59	0.59	0.40	0.43	0.42	47	1.03						
2	21.7	27.4	28.3	17.9	23.3	24.8	0.91	1.06	1.06	0.67	0.78	0.76	139	4.21						
3	21.4	26.9	27.7	17.7	22.8	24.3	0.91	1.05	1.05	0.67	0.78	0.76	185	5.42						
4	21.2	26.6	27.3	17.6	22.6	24.0	0.90	1.04	1.03	0.66	0.77	0.74	170	5.01						
5	19.5	23.6	23.8	16.5	20.1	21.2	0.85	0.96	0.93	0.63	0.71	0.70	0	0.00						
6	20.9	26.2	26.7	17.8	22.3	23.6	0.92	1.05	1.03	0.67	0.77	0.77	174	5.19						
7	18.8	22.2	22.5	15.7	18.9	19.8	0.84	0.92	0.90	0.61	0.68	0.67	35	1.23						
8	20.5	24.7	25.2	17.5	21.3	22.4	0.90	1.02	1.00	0.66	0.76	0.75	161	4.77						
9	8.4	8.1	7.6	7.2	6.8	6.6	0.45	0.42	0.39	0.33	0.30	0.28	0	0.00						
10	6.3	5.9	5.4	5.4	4.8	4.7	0.37	0.34	0.31	0.27	0.25	0.23	0	0.00						
11	5.6	5.3	5.0	4.7	4.3	4.3	0.31	0.29	0.27	0.22	0.21	0.20	0	0.00						
12	10.7	11.3	11.1	8.8	9.5	9.7	0.51	0.52	0.49	0.37	0.38	0.37	0	0.00						
13	19.8	23.0	23.2	16.1	19.3	20.2	0.81	0.89	0.87	0.57	0.65	0.65	0	0.00						
14	21.9	25.8	25.8	18.3	21.8	22.7	0.97	1.08	1.05	0.71	0.79	0.79	13	0.62						
15	21.3	24.6	24.7	17.9	20.8	21.6	0.93	1.02	0.99	0.68	0.75	0.74	100	2.92						
16	21.2	24.2	24.2	17.6	20.4	21.2	0.94	1.02	0.98	0.68	0.75	0.74	30	1.01						
17	7.5	7.4	7.1	6.4	6.2	6.1	0.38	0.38	0.35	0.28	0.27	0.26	0	0.00						
18	16.3	17.5	17.1	13.5	14.7	14.9	0.73	0.76	0.72	0.54	0.56	0.55	0	0.00						
19	22.2	25.7	25.5	18.9	21.9	22.5	0.98	1.08	1.05	0.73	0.81	0.79	171	5.23						
20	23.5	27.1	26.8	19.9	22.8	23.5	1.02	1.13	1.09	0.76	0.84	0.83	174	5.35						
21	17.4	18.7	18.3	14.8	15.9	16.0	0.81	0.83	0.79	0.59	0.61	0.59	0	0.00						
22	18.5	20.2	19.9	15.2	16.7	16.9	0.85	0.88	0.91	0.61	0.64	0.63	39	0.98						
23	24.8	28.3	28.0	21.0	23.9	24.4	1.07	1.18	1.22	0.79	0.87	0.85	190	5.64						
24	12.4	12.6	12.2	10.4	10.4	10.3	0.61	0.59	0.60	0.44	0.42	0.40	0	0.00						
25	22.3	24.8	24.4	19.0	21.1	21.4	0.98	1.04	1.07	0.73	0.77	0.75	0	0.00						
26	20.8	22.7	22.3	17.5	19.0	19.1	0.91	0.95	0.97	0.68	0.70	0.68	97	2.18						
27	24.9	28.0	27.4	21.3	23.6	23.9	1.08	1.16	1.19	0.80	0.86	0.84	177	4.36						
28	25.3	28.6	28.0	21.7	24.0	24.3	1.09	1.18	1.21	0.81	0.88	0.85	185	4.65						
29	25.4	28.6	27.9	21.8	23.9	24.2	1.10	1.19	1.22	0.82	0.88	0.85	190	4.84						
30	18.1	19.0	18.5	15.6	16.1	16.1	0.85	0.86	0.87	0.65	0.63	0.59	0	0.00						
31	571.9	656.2	654.1	480.9	553.8	571.4	25.41	27.51	27.23	18.65	20.24	19.74	2461	69.71						
Monthly Total																				
YTD ¹ Total	1425.6	1840.5	1926.0	1173.6	1588.8	1718.5	63.78	70.69	71.59	44.99	52.89	51.82	7250.52	196.99						

¹ Year To Date
Note: Total Solar Radiation - (290-3000 nm) Ultraviolet Solar Radiation - (295-385 nm).

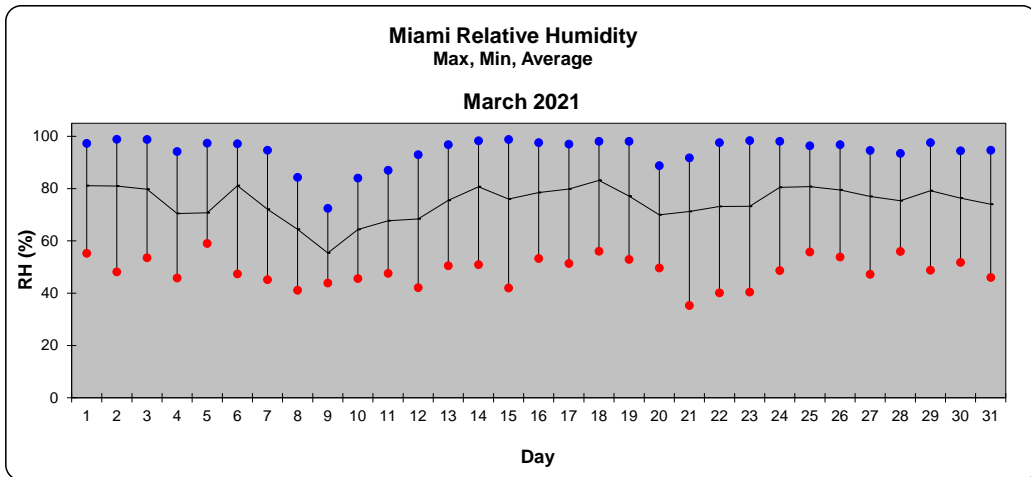
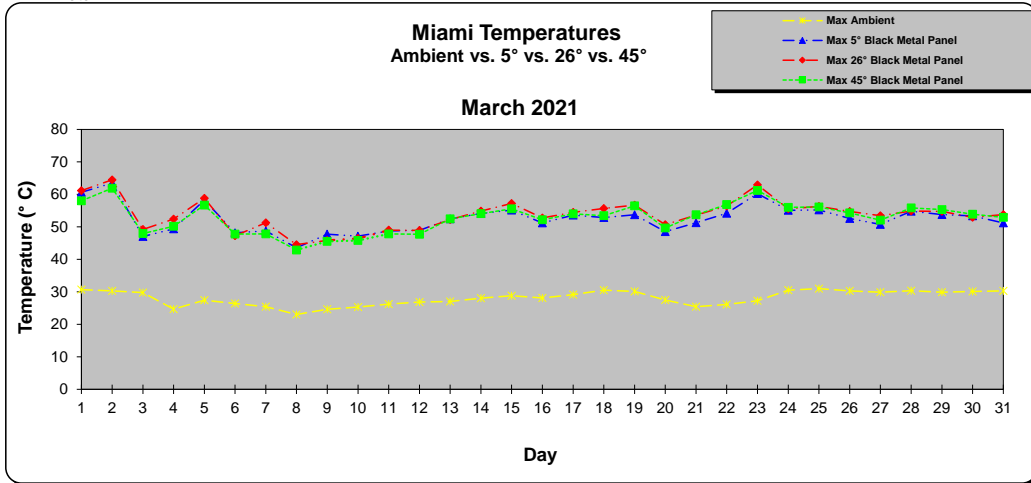




Latitude 25° 34' North, Longitude 80° 28' West, Elevation 2 (m)

Month	Temperature Summary												Climate Summary						
	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (° C)									Relative Humidity			Wind Speed		Wind Direction	Rainfall
March	(° 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	31	19	24	61	18	28	61	18	28	58	18	39	97	55	81	34.5	0.7	4°	1.7
2	30	17	23	63	16	28	65	16	29	62	16	28	99	48	81	26.6	1.0	4°	1.1
3	30	17	23	47	16	26	49	16	27	48	15	26	99	54	80	17.2	0.3	8°	2.7
4	25	13	18	49	11	23	52	11	23	50	13	24	94	46	70	15.8	0.0	5°	1.9
5	27	13	20	58	12	25	59	12	26	57	12	26	97	59	71	15.4	0.0	5°	1.4
6	26	14	20	48	12	23	47	12	23	48	12	23	97	47	81	18.0	0.0	5°	1.7
7	25	15	20	49	13	24	51	13	25	48	13	24	95	45	72	23.0	0.0	5°	2.5
8	23	12	18	44	11	21	45	10	20	43	10	21	84	41	64	16.9	0.0	7°	2.7
9	25	19	21	48	18	24	46	18	24	46	18	23	72	44	55	18.7	0.0	7°	3.0
10	25	17	22	47	15	25	46	15	25	46	14	25	84	46	64	19.4	0.0	7°	3.4
11	26	19	22	49	15	26	49	16	26	48	14	26	87	48	68	20.1	0.0	8°	3.2
12	27	15	21	49	12	25	49	12	25	48	13	25	93	42	68	16.2	0.0	7°	1.9
13	27	15	21	52	14	25	52	14	25	53	15	26	97	51	76	19.8	1.0	5°	1.5
14	28	14	21	54	13	25	55	13	25	54	14	26	98	51	81	18.0	0.0	5°	1.3
15	29	15	22	55	14	28	57	14	28	56	15	28	99	42	76	19.4	0.0	5°	1.5
16	28	17	22	51	16	26	53	16	26	52	17	27	98	53	78	24.4	0.0	6°	2.0
17	29	17	23	54	17	28	54	17	28	54	18	28	97	51	80	17.2	0.3	5°	2.0
18	31	19	24	53	18	28	56	18	28	53	18	28	98	56	83	18.3	1.0	6°	1.7
19	30	17	24	54	17	27	57	16	28	56	16	28	98	53	77	17.6	0.3	6°	2.3
20	28	13	20	49	11	24	51	11	25	50	12	25	89	50	70	16.9	1.4	6°	2.1
21	25	15	19	51	13	23	54	13	23	54	14	23	92	35	71	27.7	0.0	7°	2.4
22	26	10	18	54	8	23	56	9	24	57	10	24	98	40	73	21.6	1.8	6°	1.5
23	27	13	19	60	12	25	63	12	26	61	14	27	98	40	73	23.0	0.0	5°	1.2
24	31	12	22	55	11	25	56	11	26	56	14	27	98	49	80	15.8	0.0	5°	1.6
25	31	22	26	55	20	30	56	20	30	56	23	31	96	56	81	14.0	0.0	5°	2.4
26	30	22	25	53	20	30	55	20	30	54	22	31	97	54	79	19.0	0.0	6°	2.3
27	30	21	25	51	19	30	53	19	30	52	22	31	95	47	77	22.6	2.8	6°	2.6
28	30	21	26	55	20	30	55	20	30	56	21	31	94	56	75	26.2	2.1	5°	2.2
29	30	20	24	54	18	28	55	18	28	55	21	30	98	49	79	*	*	5°	1.3
30	30	21	26	53	19	30	53	19	31	54	22	32	95	52	76	*	*	6°	2.5
31	30	20	26	51	19	30	54	19	31	53	20	31	95	46	74	*	*	6°	2.3
Monthly Avg.	28	17	22	52	15	26	54	15	27	53	16	27	94	49	75	20.1	0.5	6°	
Monthly Total																			64.0
YTD [†] Avg.	27	15	21	51	14	25	52	14	25	49	14	24	96	51	78	18.9	0.3	107°	
YTD [†] Total																			152.4

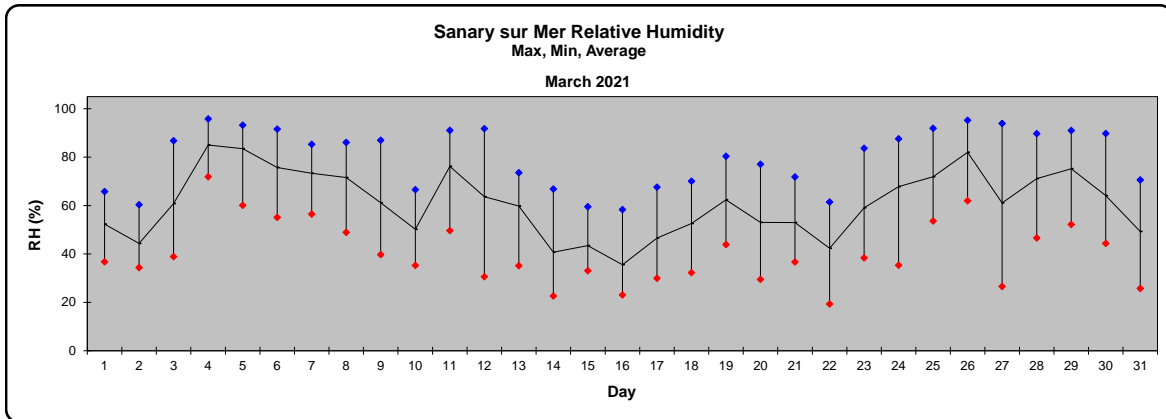
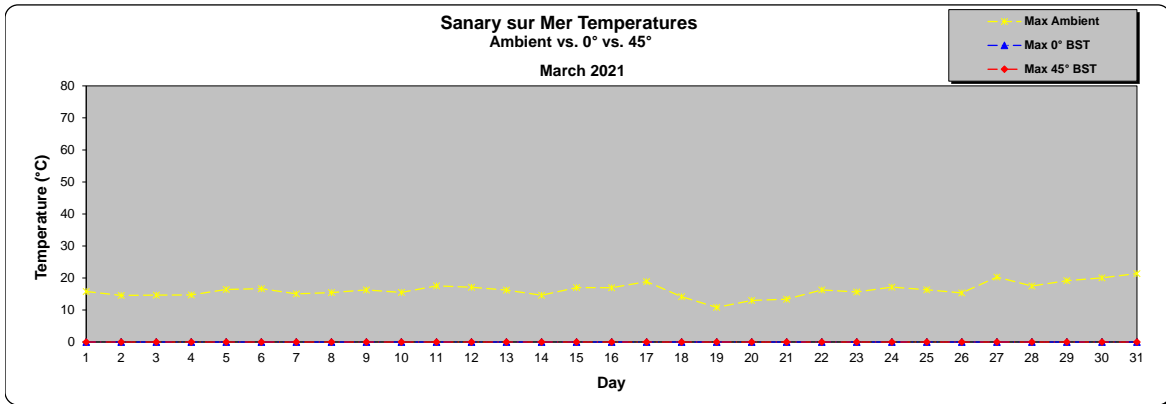
[†] Year To Date
Note:



Month	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)
Day	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
1	16	9	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	66	37	52	6.8	1.6	89°	0.0			
2	15	9	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	60	34	44	6.9	1.2	80°	0.0			
3	15	7	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	87	39	61	2.6	0.6	40°	0.0			
4	15	6	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	96	72	85	3.5	0.7	344°	0.0			
5	16	8	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	93	60	84	5.4	0.9	328°	0.0			
6	17	7	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	92	55	76	6.9	1.2	78°	0.0			
7	15	8	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	85	56	73	7.1	1.4	81°	0.0			
8	15	7	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	86	49	72	3.5	0.5	36°	0.0			
9	16	6	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	87	40	61	4.4	0.8	19°	0.0			
10	16	6	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	67	35	50	4.1	0.8	100°	0.0			
11	18	9	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	91	50	76	5.5	0.9	302°	0.0			
12	17	9	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	92	31	64	6.6	1.2	269°	0.0			
13	16	7	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	74	35	60	8.3	1.5	277°	0.0			
14	15	9	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	67	23	41	10.1	2.2	269°	0.0			
15	17	7	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	60	33	43	9.7	2.2	271°	0.0			
16	17	7	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	58	23	36	8.2	1.6	276°	0.0			
17	19	7	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	68	30	47	7.3	1.4	273°	0.0			
18	14	5	9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	70	32	53	6.4	0.9	75°	0.0			
19	11	6	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	80	44	62	7.7	1.2	57°	0.0			
20	13	4	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	77	30	53	4.6	0.9	16°	0.0			
21	13	4	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	72	37	53	6.6	1.1	25°	0.0			
22	16	4	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	61	19	42	4.4	0.9	340°	0.0			
23	16	5	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	84	38	59	6.9	1.3	74°	0.0			
24	17	6	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	88	35	68	5.4	0.8	316°	0.0			
25	16	6	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	92	54	72	3.7	0.8	355°	0.0			
26	15	8	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	95	62	82	5.4	1.1	88°	0.0			
27	20	9	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	94	27	61	6.6	1.1	305°	0.0			
28	17	8	13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	90	47	71	4.3	0.8	344°	0.0			
29	19	8	13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	91	52	75	3.8	0.8	21°	0.0			
30	20	9	14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	90	44	64	3.8	0.7	54°	0.0			
31	21	9	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	71	26	49	3.7	0.7	38°	0.0			
Monthly Avg.	16	7	11	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	80	40	61	5.8	1.1	169°	0.0			
Monthly Total																											0.0	
YTD [†] Avg.	16	8	12	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	83	45	65	6.3	1.2	158°				
YTD [†] Total																											114.6	

[†] Year To Date

Note: *No data available



Solar Radiation Summary
March 2021

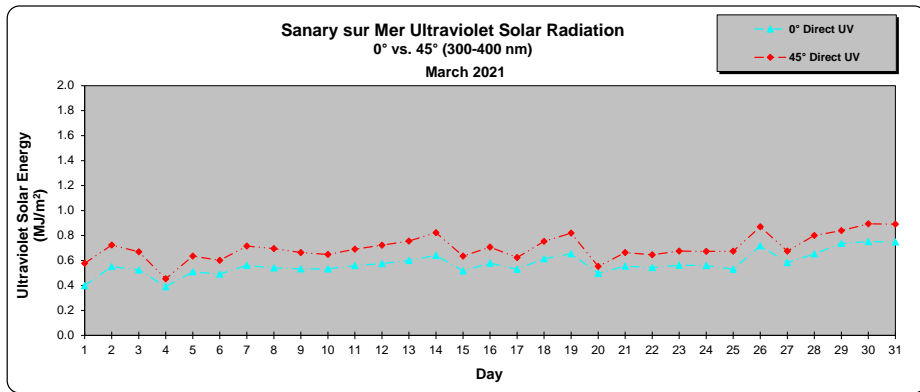
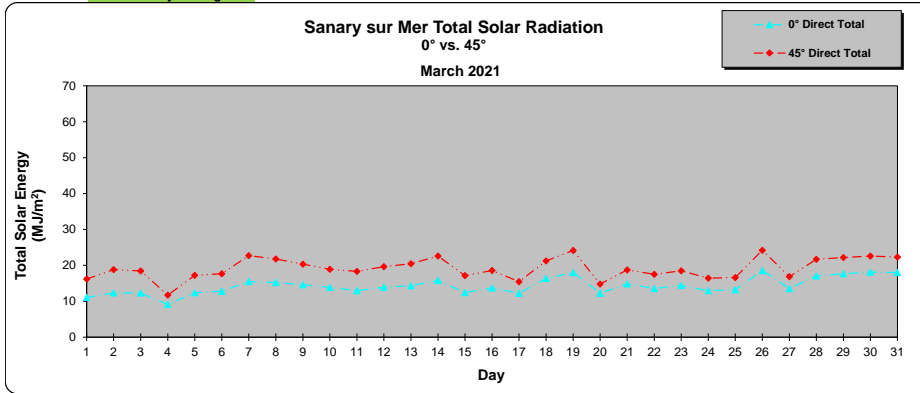
Sanary sur Mer, France

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	11.1	16.2	0.50	0.71	0.40	0.58
2	12.3	18.8	0.67	0.87	0.55	0.72
3	12.3	18.5	0.66	0.84	0.52	0.67
4	9.1	11.7	0.51	0.59	0.39	0.45
5	12.4	17.2	0.61	0.75	0.51	0.64
6	12.8	17.7	0.64	0.78	0.49	0.60
7	15.5	22.7	0.73	0.93	0.56	0.72
8	15.2	21.8	0.71	0.90	0.54	0.70
9	14.6	20.3	0.70	0.88	0.53	0.66
10	13.9	18.9	0.69	0.84	0.53	0.65
11	12.9	18.3	0.74	0.91	0.56	0.69
12	13.9	19.6	0.74	0.93	0.57	0.72
13	14.3	20.4	0.78	0.98	0.60	0.76
14	15.8	22.6	0.83	1.06	0.64	0.82
15	12.4	17.1	0.69	0.85	0.52	0.63
16	13.7	18.6	0.76	0.92	0.58	0.71
17	12.2	15.4	0.68	0.79	0.53	0.62
18	16.4	21.3	0.80	0.98	0.61	0.75
19	18.0	24.2	0.85	1.06	0.65	0.82
20	12.2	14.8	0.67	0.75	0.50	0.55
21	14.9	18.8	0.72	0.86	0.55	0.66
22	13.6	17.5	0.71	0.84	0.54	0.65
23	14.4	18.5	0.73	0.86	0.56	0.68
24	13.0	16.4	0.67	0.80	0.56	0.67
25	13.2	16.6	0.65	0.81	0.53	0.67
26	18.6	24.2	0.93	1.12	0.72	0.87
27	13.5	16.9	0.73	0.83	0.58	0.68
28	17.1	21.7	0.86	1.04	0.65	0.80
29	17.7	22.2	0.95	1.08	0.74	0.84
30	18.1	22.6	0.95	1.11	0.75	0.89
31	18.0	22.3	0.93	1.09	0.75	0.89
Monthly Total	443.1	593.8	22.79	27.74	17.74	21.76
YTD¹ Total	908.6	1450.1	44.84	57.35	34.97	45.01

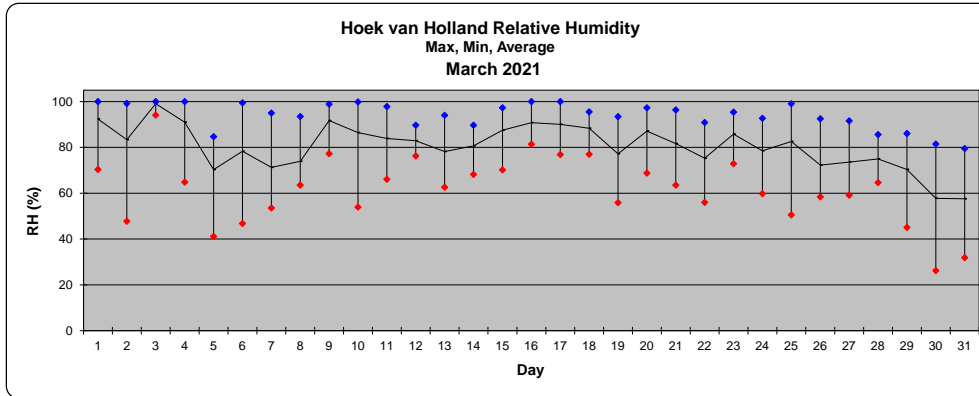
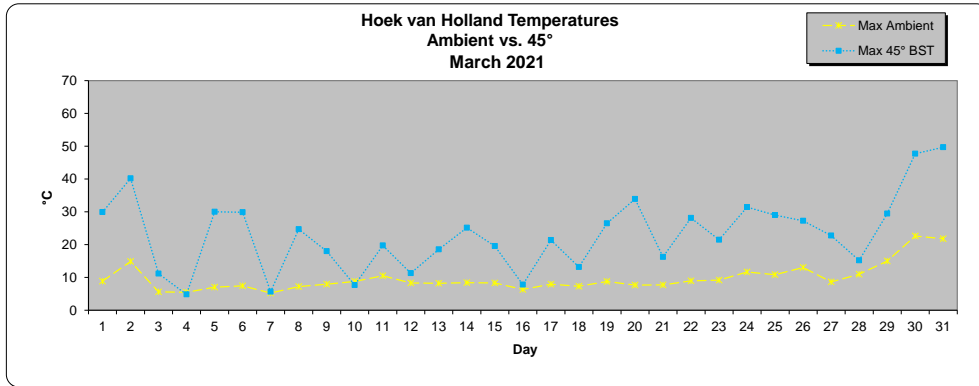
¹ Year To Date Total Solar Radiation - (290-3000 nm) Ultraviolet Solar Radiation - (295-385 nm) or (300-400 nm).

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
March	(* C)			45 °			(%)			(m/s)		360°/0°= N	(mm)
Day	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	Avg	Total
1	9	3	5	30	-4	4	100	70	92	6.5	2.2	54°	0.0
2	15	2	7	40	-5	9	99	48	83	4.0	1.5	61°	0.3
3	6	3	4	11	-4	1	100	94	99	4.5	1.9	311°	0.0
4	5	3	4	5	-1	1	100	65	91	8.7	3.2	347°	0.3
5	7	1	4	30	-7	4	85	41	70	9.1	3.6	4°	0.0
6	7	-2	2	30	-10	1	100	47	78	5.7	1.8	28°	0.0
7	5	-1	3	6	-9	-1	95	54	71	5.2	1.6	360°	0.0
8	7	2	5	25	-5	5	94	64	74	7.2	3.1	244°	1.5
9	8	4	6	18	-3	4	99	77	92	8.7	3.7	265°	3.8
10	9	5	6	8	0	2	100	54	87	16.2	6.4	161°	2.5
11	11	6	8	20	2	7	98	66	84	22.6	10.1	194°	0.8
12	8	6	7	11	1	4	90	76	83	16.8	7.6	200°	2.3
13	8	4	7	19	1	5	94	63	78	23.3	8.7	211°	5.1
14	8	6	7	25	1	5	90	68	81	13.0	6.4	253°	1.0
15	8	5	7	20	1	5	97	70	88	11.2	5.4	290°	4.1
16	6	5	6	8	1	2	100	81	91	8.0	2.8	274°	7.1
17	8	4	6	21	0	4	100	77	90	9.3	4.4	336°	1.8
18	7	5	6	13	1	4	96	77	88	8.3	3.5	323°	0.0
19	9	1	5	26	-5	5	93	56	77	9.5	4.2	356°	0.0
20	8	0	4	34	-8	5	97	69	87	8.4	2.9	302°	0.0
21	8	5	7	16	0	4	96	64	82	10.9	4.6	315°	0.0
22	9	5	7	28	-1	6	91	56	75	6.5	2.8	292°	0.0
23	9	6	7	21	0	5	95	73	86	7.3	3.1	185°	0.0
24	12	5	8	31	-1	9	93	60	79	8.1	3.1	192°	0.0
25	11	6	8	29	1	8	99	51	83	9.6	3.7	185°	0.0
26	13	6	10	27	2	10	93	58	72	12.9	6.5	167°	3.8
27	9	6	7	23	1	8	92	59	74	15.1	6.8	219°	1.3
28	11	7	9	15	3	7	86	65	75	15.5	7.3	189°	0.0
29	15	9	11	29	4	12	86	45	70	11.4	5.8	193°	0.0
30	23	6	14	48	-2	17	82	26	58	7.4	1.9	137°	0.0
31	22	7	14	50	-1	18	80	32	58	4.1	1.2	120°	0.0
Monthly Avg.	10	4	7	23	-2	6	94	61	80	10.2	4.2	218°	
Monthly Total													35.6
YTD ¹ Ava.	8	3	5	18	-3	3	94	67	83	9.9	4.1	177°	
YTD ¹ Total													161.8

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

March 2021

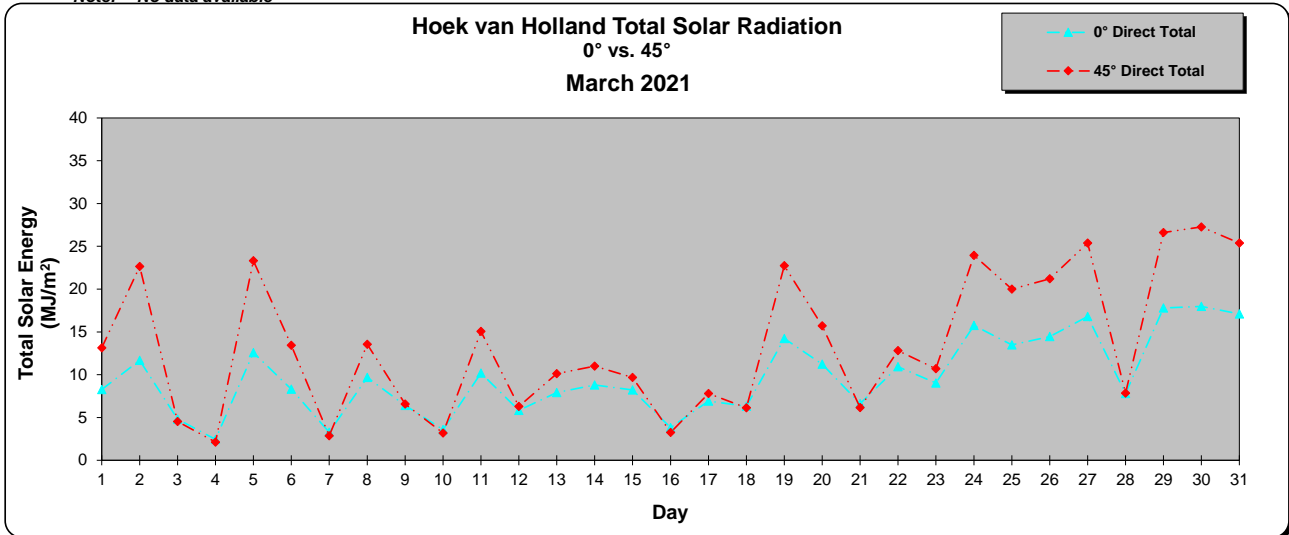
Hoek van Holland, The Netherlands

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

AWSG Solar Radiation Summary		
Month	Total Solar Radiation (MJ/m ²)	
March	Direct	
Day	0°	45°
1	8.3	13.1
2	11.7	22.7
3	4.8	4.5
4	2.4	2.1
5	12.6	23.3
6	8.3	13.4
7	3.3	2.9
8	9.7	13.6
9	6.4	6.6
10	3.6	3.2
11	10.2	15.1
12	5.8	6.3
13	7.9	10.1
14	8.8	11.0
15	8.2	9.7
16	3.8	3.3
17	6.9	7.8
18	6.3	6.1
19	14.2	22.7
20	11.2	15.7
21	6.6	6.2
22	10.9	12.8
23	9.0	10.7
24	15.8	24.0
25	13.5	20.0
26	14.5	21.2
27	16.8	25.4
28	7.8	7.8
29	17.8	26.6
30	18.0	27.3
31	17.1	25.4
Monthly Total	302.2	420.4
YTD[†] Total	549.5	867.1

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

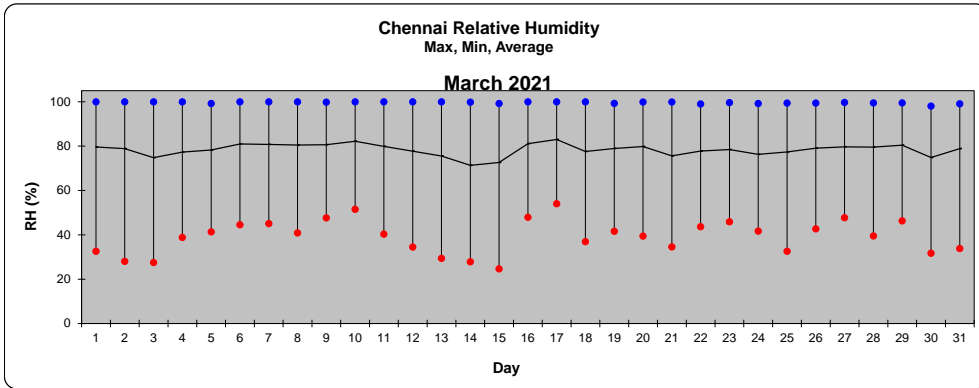
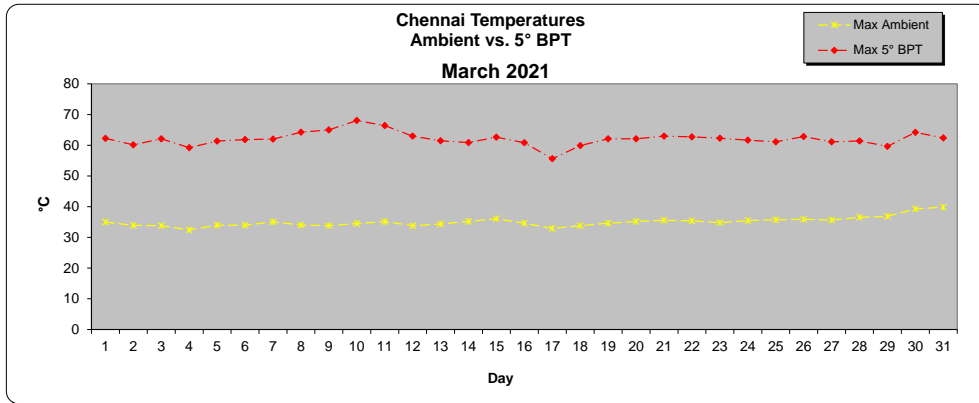
Note: * No data available



Month	Temperature Summary						Climate Summary						
	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (°C)			Relative Humidity			Wind Speed		Wind Direction	Rainfall
March	° C			5 °			%			(m/s)		360°/70° = N	(mm)
Day	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	Avg	Total
1	35	21	26	62	18	32	100	33	80	4.4	0.6	172°	0.0
2	34	22	26	60	19	31	100	28	79	3.2	0.7	98°	0.0
3	34	20	26	62	18	31	100	28	75	3.5	0.6	20°	0.0
4	32	21	26	59	19	31	100	39	77	4.1	0.7	69°	0.0
5	34	21	26	61	18	32	100	41	78	4.0	0.7	5°	0.0
6	34	21	27	62	19	32	100	45	81	3.8	0.7	90°	0.0
7	35	22	27	62	19	33	100	45	81	4.0	0.7	113°	0.0
8	34	23	28	64	21	33	100	41	81	3.9	0.7	41°	0.0
9	34	23	28	65	21	33	100	48	81	4.7	0.8	48°	0.0
10	34	24	28	68	21	33	100	52	82	4.6	0.9	62°	0.0
11	35	23	28	66	21	33	100	40	80	3.5	0.7	100°	0.0
12	34	21	27	63	19	32	100	34	78	3.9	0.7	103°	0.0
13	34	22	27	61	19	31	100	29	76	4.1	0.9	46°	0.0
14	35	22	27	61	19	32	100	28	71	3.5	0.7	91°	0.0
15	36	22	28	63	19	33	99	25	73	4.6	0.7	31°	0.0
16	35	23	28	61	21	32	100	48	81	4.2	0.8	40°	0.0
17	33	23	27	56	20	31	100	54	83	4.5	0.7	99°	0.0
18	34	23	27	60	20	31	100	37	78	4.0	0.7	49°	0.0
19	35	22	27	62	19	32	99	42	79	3.6	0.6	111°	0.0
20	35	22	28	62	19	33	100	39	80	3.2	0.7	51°	0.0
21	36	23	28	63	20	33	100	35	76	3.4	0.7	69°	0.0
22	35	23	28	63	21	33	99	44	78	3.7	0.7	86°	0.0
23	35	23	28	62	21	33	100	46	78	4.1	0.8	57°	0.0
24	36	23	29	62	21	34	99	42	76	3.7	0.7	92°	0.0
25	36	24	29	61	21	33	99	33	77	3.5	0.7	91°	0.0
26	36	25	29	63	22	34	99	43	79	3.2	0.7	57°	0.0
27	36	24	29	61	22	33	100	48	80	4.0	0.6	108°	0.0
28	36	24	29	61	22	34	100	40	80	4.0	0.7	123°	0.0
29	37	25	30	60	23	34	100	46	80	4.7	0.8	164°	0.0
30	39	25	31	64	22	35	98	32	75	4.8	0.8	87°	0.0
31	40	25	31	62	23	36	99	34	79	3.5	0.8	125°	0.0
Monthly Avg.	35	23	28	62	20	33	100	39	78	3.9	0.7	81°	
Monthly Total													0.0
YTD [†] Avg.	32	22	26	56	20	30	99	48	81	4.2	0.8	115°	
YTD [†] Total													110.7

[†] Year To Date

Note: * Data Unavailable





ATLAS

WEATHERING SERVICES GROUP



Solar Radiation Summary March 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)	
		295-385 nm	300-400 nm
March	Direct	295-385 nm	300-400 nm
Day	5°	5°	
1	25.2	1.13	1.26
2	23.6	1.02	1.14
3	24.6	1.06	1.18
4	25.7	1.19	1.33
5	25.7	1.20	1.34
6	26.6	1.24	1.38
7	26.4	1.24	1.38
8	26.8	1.26	1.41
9	25.0	1.22	1.36
10	24.54	1.19	1.32
11	25.5	1.22	1.36
12	27.0	1.25	1.40
13	24.6	1.12	1.25
14	26.1	1.19	1.33
15	25.4	1.12	1.25
16	24.5	1.07	1.19
17	21.6	0.92	1.03
18	22.1	0.99	1.11
19	25.4	1.13	1.26
20	24.4	1.08	1.20
21	23.9	1.07	1.20
22	24.7	1.14	1.28
23	24.6	1.13	1.26
24	23.7	1.07	1.19
25	23.4	1.03	1.15
26	23.5	1.02	1.13
27	23.1	0.95	1.06
28	21.9	0.91	1.02
29	21.2	0.86	0.96
30	23.3	0.95	1.06
31	23.0	0.88	0.98
Monthly Total	756.7	33.84	37.78
YTD¹ Total	1799.3	84.69	94.53

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

Note:

