



# ATLAS

## WEATHERING SERVICES GROUP

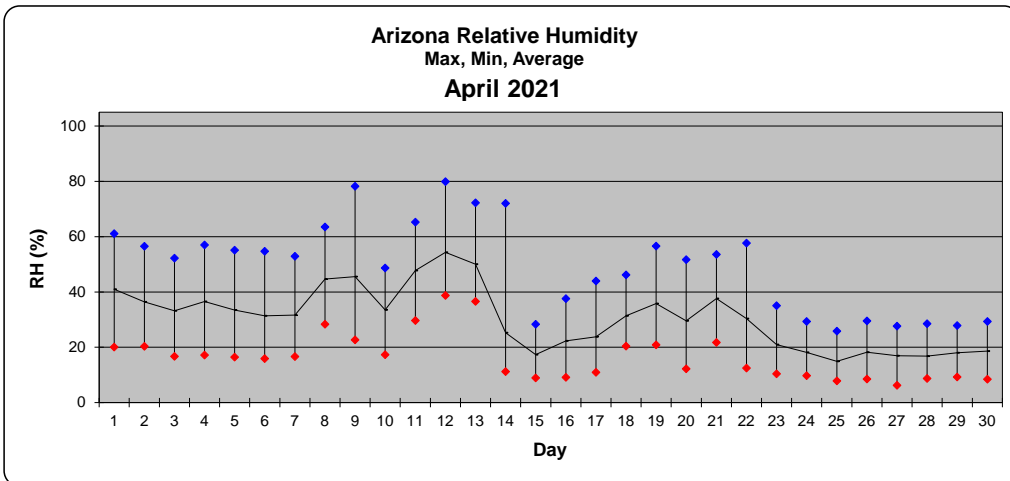
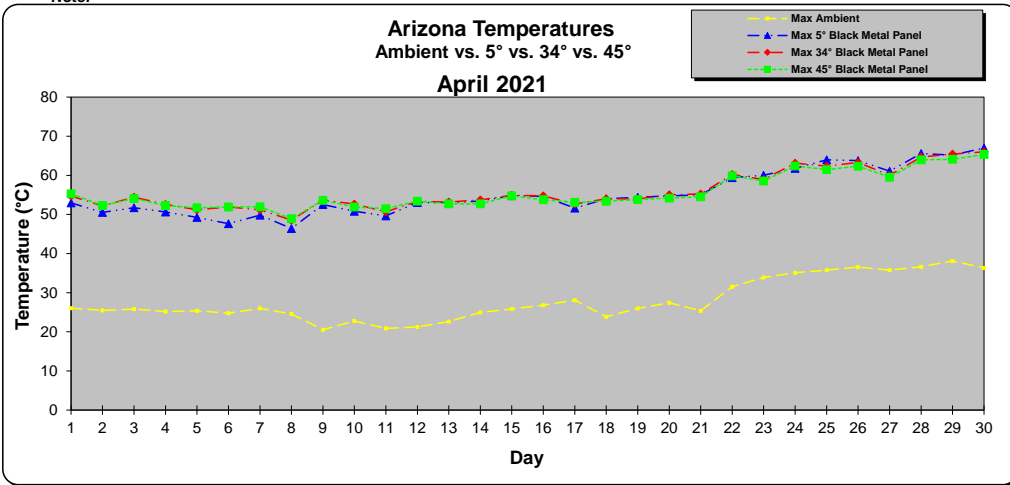
Latitude 33° 54' North, Longitude 112° 08' West, Elevation 610 (m)



# Weather Summary April 2021 Phoenix, Arizona

Month	Temperature Summary												Climate Summary							
	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (° C)									Relative Humidity			Wind Speed		Wind Direction	Rainfall	
April	(° 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	26	13	19	53	11	24	55	11	24	55	12	25	61	20	41	6.2	1.5	43°	0.0	
2	25	10	18	51	7	23	52	8	24	52	8	24	57	20	36	7.0	1.6	270°	0.0	
3	26	12	19	52	10	24	54	10	25	54	10	25	52	17	33	8.1	2.1	17°	0.0	
4	25	9	18	51	6	23	53	7	24	52	7	24	57	17	37	8.6	1.6	52°	0.0	
5	25	10	18	49	7	23	51	8	23	52	8	24	55	16	33	7.4	1.5	86°	0.0	
6	25	9	18	48	7	22	52	7	23	52	8	23	55	16	31	7.4	1.7	192°	0.0	
7	26	8	18	50	7	23	51	7	24	52	7	24	53	17	32	9.4	1.6	54°	0.0	
8	25	11	17	46	7	20	49	7	20	49	8	21	64	28	45	9.9	2.3	260°	0.0	
9	21	6	14	53	4	20	54	4	20	54	5	21	78	23	46	7.4	1.3	13°	0.0	
10	23	9	16	51	7	22	53	8	22	52	8	22	49	17	34	10.7	1.9	9°	0.0	
11	21	10	15	50	8	19	51	8	20	52	8	20	65	30	48	9.4	1.5	165°	0.0	
12	21	8	15	53	6	19	53	6	19	53	7	20	80	39	54	6.4	1.3	192°	0.0	
13	23	12	17	53	9	21	53	10	21	53	10	21	72	37	50	10.1	1.5	133°	0.0	
14	25	11	18	53	9	23	54	10	23	53	10	23	72	11	25	14.1	3.4	2°	0.3	
15	26	12	19	55	11	24	55	11	25	55	11	25	28	9	17	10.5	2.8	40°	0.0	
16	27	11	19	55	8	25	55	9	25	54	9	25	38	9	22	8.2	1.9	75°	0.0	
17	28	11	20	52	9	24	53	9	25	53	9	25	44	11	24	9.6	2.2	152°	0.0	
18	24	11	17	54	8	23	54	9	23	53	9	23	46	20	31	8.8	1.6	97°	0.0	
19	26	11	19	54	9	25	54	10	25	54	10	25	57	21	36	6.3	1.7	70°	0.0	
20	27	13	21	55	11	26	55	11	26	54	11	27	52	12	30	13.3	1.6	160°	0.0	
21	25	13	19	55	10	24	55	10	24	55	11	24	54	22	38	15.1	2.2	46°	0.0	
22	32	14	23	59	11	29	60	11	29	60	12	28	58	12	30	11.0	2.3	343°	0.0	
23	34	17	26	60	13	31	59	14	31	59	14	31	35	10	21	10.4	2.6	324°	0.0	
24	35	19	27	62	17	33	63	17	32	62	18	32	29	10	18	7.6	2.7	341°	0.0	
25	36	22	28	64	20	34	62	20	34	61	20	34	26	8	15	11.8	2.9	14°	0.0	
26	37	20	28	64	16	34	63	17	34	62	17	34	30	9	18	8.0	2.0	73°	0.0	
27	36	21	28	61	19	34	60	20	33	60	20	33	28	6	17	9.2	1.8	0°	0.0	
28	37	18	28	66	15	34	65	16	34	64	16	34	29	9	17	6.7	1.8	54°	0.0	
29	38	21	30	65	18	36	65	19	36	64	19	36	28	9	18	6.8	1.8	71°	0.0	
30	36	22	29	67	20	33	66	21	33	65	21	33	29	9	19	8.4	1.7	3°	0.0	
Monthly Avg.	28	13	21	55	11	26	56	11	26	56	11	26	49	16	31	9.1	1.9	112°	0.3	
Monthly Total																				
YTD <sup>†</sup> Avg.	22	9	15	44	7	19	48	7	19	49	7	20	54	22	37	9.2	2.1	89°	154.9	
YTD <sup>†</sup> Total																				

<sup>†</sup> Year To Date  
Note:





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

Miami, Florida

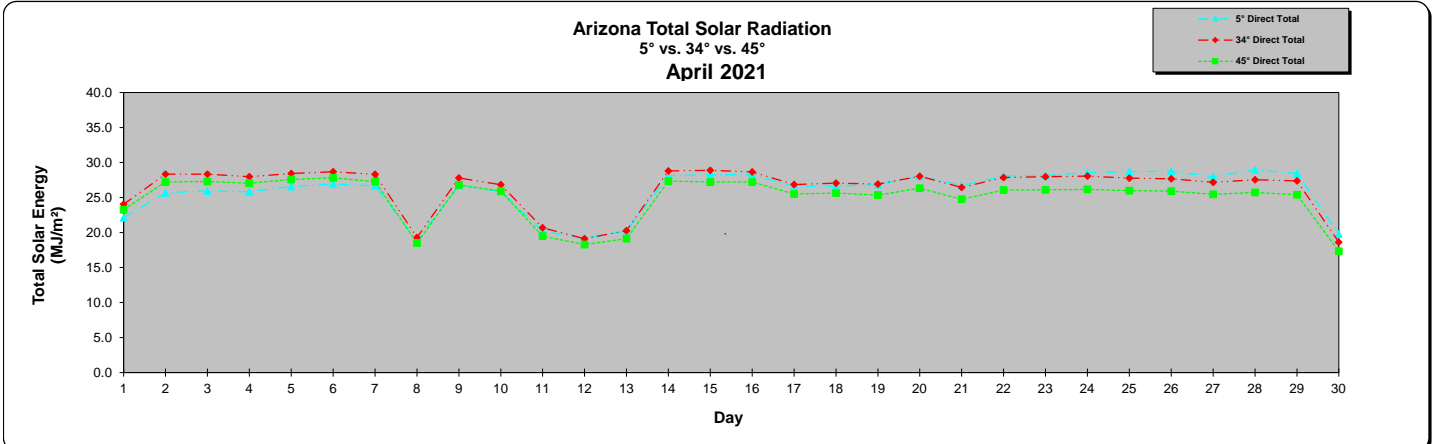
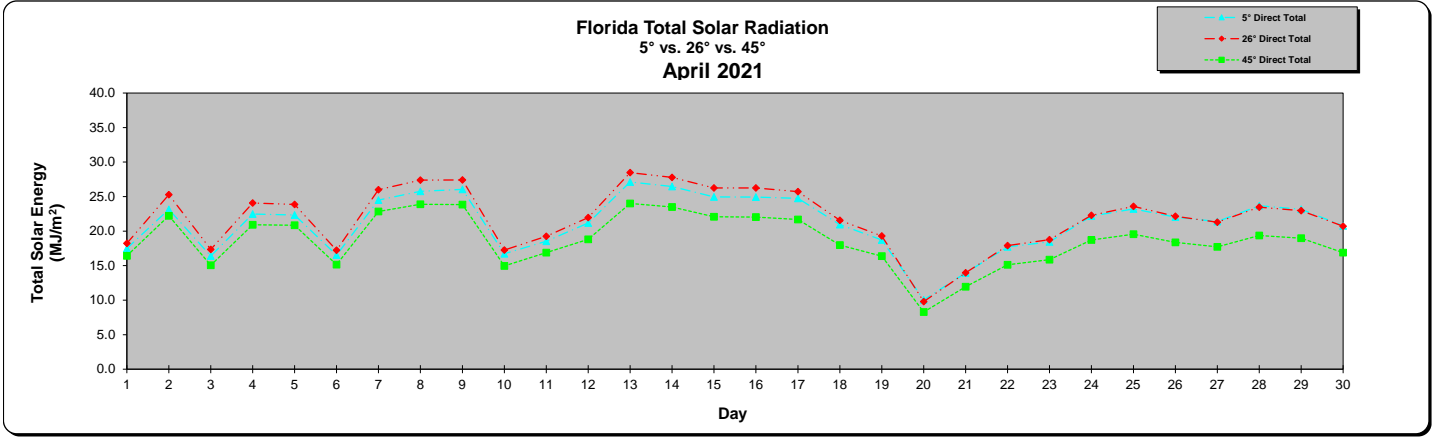
Latitude 33° 54' North, Longitude 112° 08' West, Elevation 610 (m)

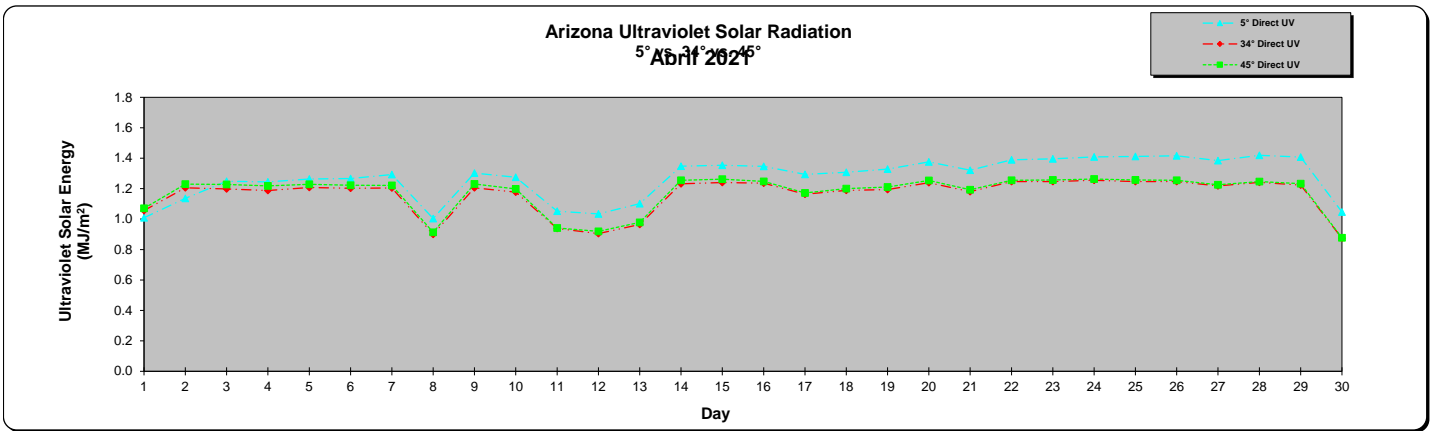
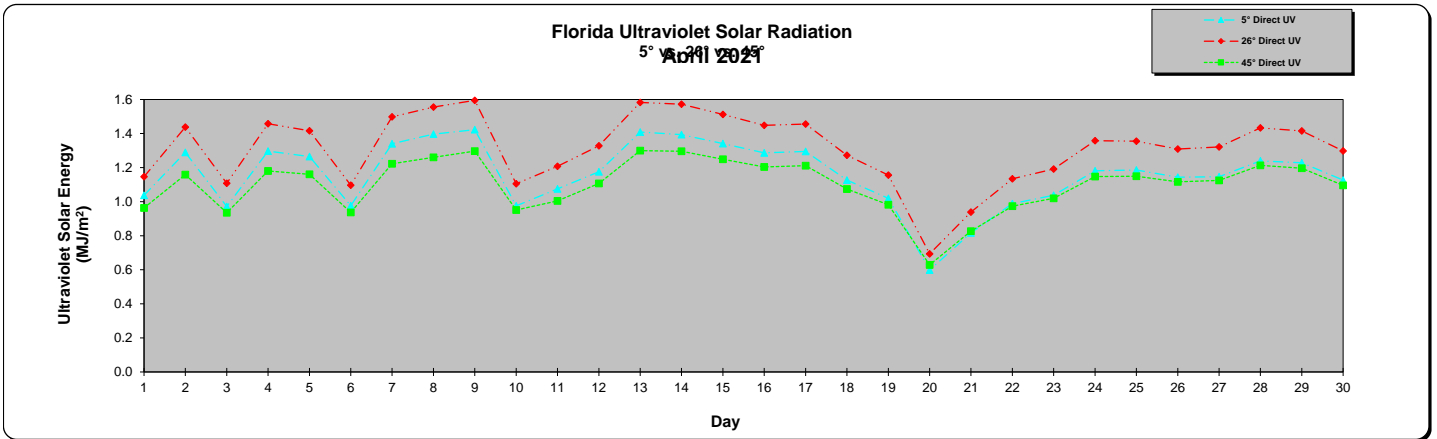
Phoenix, Arizona

AWSG	Solar Radiation Summary											Solar Radiation Summary														
	Month	Total Solar Radiation (MJ/m2)					Ultraviolet Solar Radiation (MJ/m <sup>2</sup> )					EMMAQUA™	Total	UV												
		Direct		Underglass			Direct		Underglass																	
	April	5°	26°	45°	5°	26°	45°	5°	26°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°							
Day	5°	26°	45°	5°	26°	45°	5°	26°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°	Total	UV						
1	17.5	18.2	16.4	14.5	15.3	13.3	1.04	1.15	0.96	0.64	0.75	0.66	22.1	24.1	23.3	19.1	20.4	20.6	1.01	1.06	1.07	0.77	0.78	0.75	0	0.00
2	23.1	25.3	22.2	19.2	21.2	18.0	1.29	1.44	1.16	0.80	0.93	0.80	25.7	28.4	27.2	22.1	23.9	23.9	1.14	1.21	1.23	0.87	0.89	0.86	198	7.19
3	16.4	17.4	15.0	13.6	14.6	12.2	0.97	1.11	0.94	0.60	0.72	0.65	25.9	28.3	27.3	22.2	23.8	23.7	1.25	1.20	1.23	0.87	0.88	0.85	209	7.31
4	22.5	24.1	20.9	18.7	20.2	16.9	1.30	1.46	1.18	0.80	0.95	0.81	25.8	28.0	27.0	22.1	23.6	23.5	1.24	1.19	1.22	0.87	0.87	0.84	183	6.82
5	22.3	23.9	20.9	18.8	19.1	17.7	1.26	1.42	1.16	0.72	0.89	0.62	26.6	28.4	27.6	22.6	24.0	23.9	1.26	1.21	1.23	0.89	0.88	0.86	186	7.07
6	16.5	17.2	15.2	13.9	13.8	12.8	0.98	1.10	0.94	0.57	0.68	0.47	27.0	28.7	27.8	22.9	24.2	24.0	1.27	1.20	1.22	0.88	0.88	0.85	198	7.41
7	24.5	26.0	22.8	20.9	21.2	19.7	1.34	1.50	1.22	0.77	0.95	0.66	26.7	28.3	27.3	22.6	23.8	23.5	1.29	1.20	1.22	0.90	0.91	0.85	197	7.45
8	25.8	27.4	23.9	21.8	22.2	20.5	1.40	1.56	1.26	0.79	0.99	0.69	18.8	19.3	18.5	16.1	16.4	16.0	1.00	0.90	0.91	0.69	0.68	0.62	48	1.83
9	26.0	27.4	23.8	22.5	22.6	20.4	1.42	1.60	1.30	0.82	1.01	0.70	26.7	27.8	26.8	22.6	23.5	23.0	1.30	1.21	1.23	0.91	0.92	0.85	191	7.35
10	16.7	17.3	15.0	14.1	13.7	12.5	0.98	1.11	0.95	0.58	0.68	0.46	25.9	26.8	25.9	22.2	22.9	22.5	1.28	1.18	1.20	0.89	0.89	0.83	187	7.12
11	18.5	19.3	16.9	15.9	15.9	14.6	1.08	1.21	1.00	0.64	0.76	0.52	20.2	20.7	19.5	17.3	17.5	17.2	1.05	0.94	0.94	0.73	0.71	0.66	0	0.00
12	21.2	22.0	18.8	18.3	17.9	16.3	1.18	1.33	1.11	0.72	0.84	0.57	19.1	19.1	18.3	16.2	16.0	15.7	1.03	0.91	0.92	0.71	0.68	0.63	20	0.69
13	27.1	28.5	24.0	23.6	23.3	20.6	1.41	1.58	1.30	0.84	1.01	0.69	20.3	20.3	19.1	17.2	16.9	16.6	1.10	0.97	0.98	0.76	0.73	0.67	0	0.00
14	26.5	27.8	23.5	22.8	22.5	20.0	1.39	1.57	1.30	0.83	1.00	0.68	28.1	28.8	27.4	23.9	24.2	23.5	1.35	1.23	1.26	0.93	0.94	0.86	0	0.00
15	24.9	26.3	22.1	21.5	21.1	18.8	1.34	1.51	1.25	0.80	0.95	0.65	28.3	28.9	27.2	24.2	24.3	23.6	1.35	1.24	1.26	0.95	0.94	0.87	177	6.78
16	24.9	26.2	22.0	21.7	21.2	18.9	1.29	1.45	1.20	0.84	0.91	0.62	28.2	28.7	27.2	24.1	24.1	23.4	1.35	1.24	1.25	0.94	0.94	0.86	168	6.47
17	24.7	25.7	21.7	21.1	20.7	18.5	1.29	1.46	1.21	0.84	0.92	0.62	26.6	26.9	25.5	22.6	22.5	21.9	1.29	1.16	1.17	0.89	0.88	0.80	122	4.90
18	20.9	21.6	18.0	17.8	17.1	15.2	1.13	1.27	1.07	0.73	0.80	0.53	26.6	27.1	25.7	22.8	23.0	22.4	1.31	1.19	1.20	0.92	0.91	0.83	148	5.86
19	18.7	19.3	16.4	15.9	15.5	14.0	1.02	1.16	0.98	0.66	0.72	0.49	26.8	26.9	25.3	22.8	22.5	21.7	1.33	1.19	1.21	0.92	0.90	0.82	142	5.59
20	10.0	9.8	8.3	8.3	7.7	7.0	0.60	0.69	0.63	0.41	0.42	0.27	28.1	28.1	26.3	23.9	23.5	22.7	1.38	1.24	1.25	0.95	0.94	0.85	197	7.61
21	13.9	14.0	11.9	11.9	11.1	10.1	0.82	0.94	0.83	0.55	0.57	0.38	26.7	26.5	24.8	22.8	22.1	21.3	1.32	1.18	1.19	0.92	0.89	0.81	146	5.81
22	17.7	17.9	15.1	15.1	14.3	12.8	0.99	1.13	0.97	0.65	0.70	0.47	28.1	27.9	26.1	24.1	23.5	22.4	1.39	1.25	1.26	0.96	0.94	0.85	194	7.59
23	18.4	18.8	15.9	15.5	14.9	13.4	1.04	1.19	1.02	0.68	0.73	0.49	28.2	28.0	26.1	24.3	23.6	22.6	1.40	1.25	1.26	0.96	0.94	0.85	197	7.44
24	22.2	22.3	18.7	18.7	17.7	15.8	1.18	1.36	1.15	0.77	0.84	0.56	28.5	28.1	26.2	24.4	23.6	22.5	1.41	1.26	1.26	0.97	0.94	0.85	199	7.49
25	23.2	23.6	19.5	19.7	18.7	16.5	1.19	1.36	1.15	0.76	0.85	0.56	28.7	28.8	26.0	24.4	23.5	22.3	1.41	1.25	1.26	0.96	0.94	0.84	161	6.21
26	22.0	22.1	18.4	18.6	17.5	15.3	1.14	1.31	1.12	0.74	0.81	0.54	28.7	27.7	25.9	24.6	23.4	22.3	1.42	1.25	1.26	0.96	0.93	0.83	188	6.96
27	21.4	21.3	17.7	17.9	16.8	14.7	1.15	1.32	1.12	0.75	0.81	0.54	28.0	27.2	25.5	24.0	23.1	22.1	1.38	1.22	1.23	0.94	0.91	0.82	195	6.75
28	23.7	23.5	19.4	19.8	18.6	16.1	1.24	1.43	1.21	0.81	0.88	0.59	28.9	27.6	25.7	24.7	23.3	22.1	1.42	1.24	1.25	0.96	0.93	0.83	198	6.24
29	23.2	23.0	19.0	19.3	18.1	15.8	1.23	1.42	1.20	0.80	0.87	0.58	28.5	27.4	25.4	24.4	23.0	21.7	1.41	1.22	1.23	0.96	0.92	0.82	195	5.65
30	20.8	20.7	16.9	17.5	16.2	14.1	1.13	1.30	1.10	0.72	0.80	0.53	19.8	18.6	17.3	16.8	15.7	14.9	1.05	0.87	0.88	0.71	0.65	0.57	0	0.00
Monthly Total	635.5	657.5	560.3	539.1	530.6	472.9	34.79	39.40	32.98	21.62	24.75	17.38	777.6	789.9	749.1	664.0	665.8	647.5	38.18	34.82	35.26	26.54	26.14	24.04	4244	157.57
YTD <sup>†</sup> Total	2103.5	2489.9	2322.0	1731.0	1982.8	1997.5	110.38	136.03	124.17	67.91	85.59	75.33	2203.2	2630.4	2675.2	1837.6	2254.6	2366.0	101.96	105.52	106.86	71.53	70.03	75.86	11494.25	354.56

<sup>†</sup>Year To Date

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



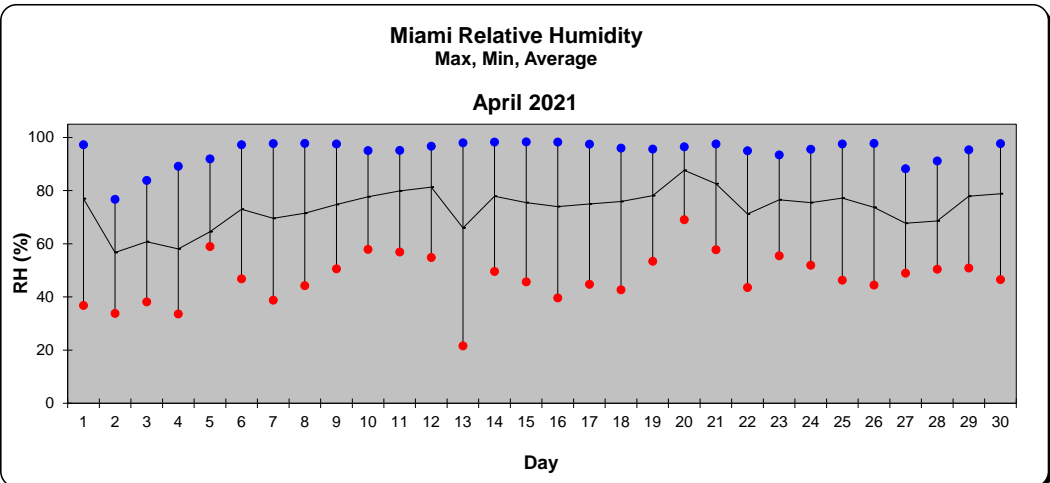
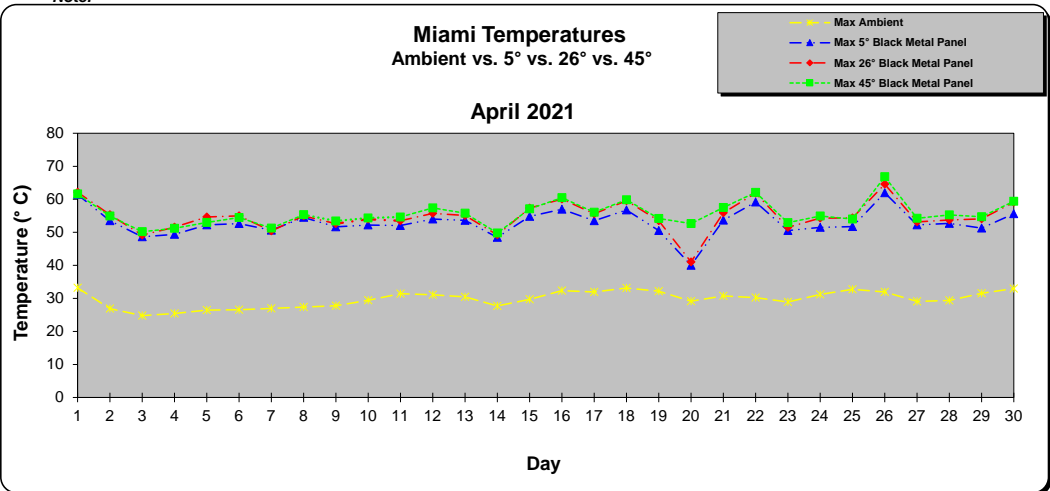


Latitude 25° 34' North, Longitude 80° 28' West, Elevation 2 (m)

Month	Temperature Summary												Climate Summary						
	Ambient Temperature (° C)			Black Metal Panel Temperature (ASTM G179) (° C)									Relative Humidity (%)			Wind Speed m/sec		Wind Direction 360°/0°=N	Rainfall (mm)
April	° C			5 °			26 °			45 °									
Day	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Avg.	Avg.	Total
1	33	19	24	61	18	29	62	18	29	62	19	31	97	37	77	34.5	0.7	5°	1.3
2	27	15	20	53	14	25	55	14	26	55	14	26	77	34	57	26.6	1.0	6°	2.8
3	25	15	19	49	13	22	49	13	22	50	14	23	84	38	61	17.2	0.3	7°	2.8
4	25	13	19	49	11	23	52	11	23	51	8	23	89	34	58	15.8	0.0	6°	1.8
5	26	13	19	52	10	24	55	10	24	53	13	25	92	59	65	15.4	0.0	5°	1.4
6	27	12	19	53	10	23	55	10	23	54	15	25	97	47	73	18.0	0.0	5°	1.7
7	27	12	20	51	10	25	50	10	25	51	15	27	98	39	70	23.0	0.0	5°	2.5
8	27	13	21	55	11	26	55	11	26	55	16	28	98	44	72	16.9	0.0	7°	2.7
9	28	14	21	52	12	26	53	12	27	53	17	29	98	51	75	18.7	0.0	7°	3.0
10	29	17	24	52	16	27	54	16	27	54	18	28	95	58	78	19.4	0.0	7°	3.4
11	31	18	24	52	17	28	53	17	28	55	11	31	95	57	80	20.1	0.0	8°	3.2
12	31	19	24	54	18	28	56	18	29	57	18	33	97	55	81	16.2	0.0	7°	1.9
13	30	17	24	54	15	29	55	15	29	56	18	32	98	22	66	19.8	1.0	5°	1.5
14	28	16	22	48	14	26	49	14	27	50	19	30	98	50	78	18.0	0.0	5°	1.3
15	28	15	23	55	14	28	57	14	28	57	18	31	98	46	76	19.4	0.0	5°	1.5
16	32	16	24	57	15	29	60	15	30	61	19	33	98	40	74	24.4	0.0	6°	2.0
17	32	18	25	54	17	29	56	17	29	56	21	33	98	45	75	17.2	0.3	5°	2.0
18	33	20	26	57	18	31	60	18	32	60	22	33	96	43	76	18.3	1.0	6°	1.7
19	32	22	27	51	21	30	53	21	31	54	19	32	96	53	78	17.6	0.3	6°	2.3
20	29	20	25	40	19	26	41	20	26	53	20	33	97	69	88	16.9	1.4	6°	2.1
21	31	23	26	54	21	29	56	21	29	58	24	35	98	58	83	27.7	0.0	7°	2.4
22	30	21	25	59	21	29	62	21	30	62	21	31	95	44	71	21.6	1.8	6°	1.5
23	29	20	25	51	18	28	52	18	28	53	21	30	94	56	77	23.0	0.0	5°	1.2
24	31	22	26	52	21	30	54	21	30	55	23	31	96	52	75	15.8	0.0	5°	1.6
25	33	22	27	52	20	31	54	20	31	54	24	34	98	46	77	14.0	0.0	5°	2.4
26	32	22	26	62	20	30	65	20	30	67	21	33	98	44	74	19.0	0.0	6°	2.3
27	29	19	25	52	19	28	53	19	28	54	21	29	88	49	68	22.6	2.8	6°	2.6
28	29	20	25	53	19	29	54	19	30	55	21	31	91	51	69	26.2	2.1	5°	2.2
29	32	21	26	51	19	30	54	19	30	55	24	34	95	51	78	*	*	5°	1.3
30	33	21	26	56	19	30	59	19	31	59	23	36	98	47	79	*	*	6°	2.5
Monthly Avg.	30	18	24	53	16	28	55	16	28	56	18	30	95	47	73	20.1	0.5	6°	
Monthly Total																			62.9
YTD <sup>†</sup> Avg.	28	16	22	52	15	26	53	15	26	51	15	26	96	50	77	19.2	0.4	82°	
YTD <sup>†</sup> Total																			215.3

<sup>†</sup> Year To Date

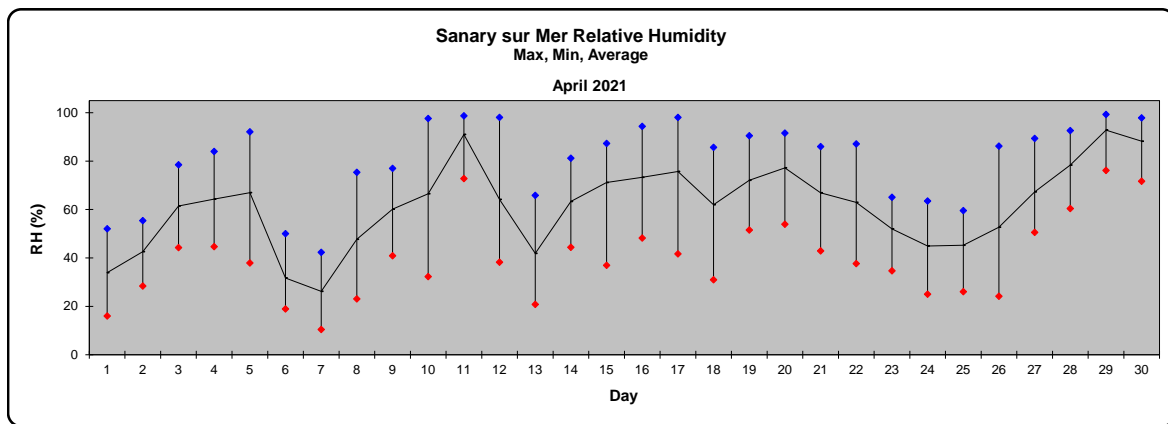
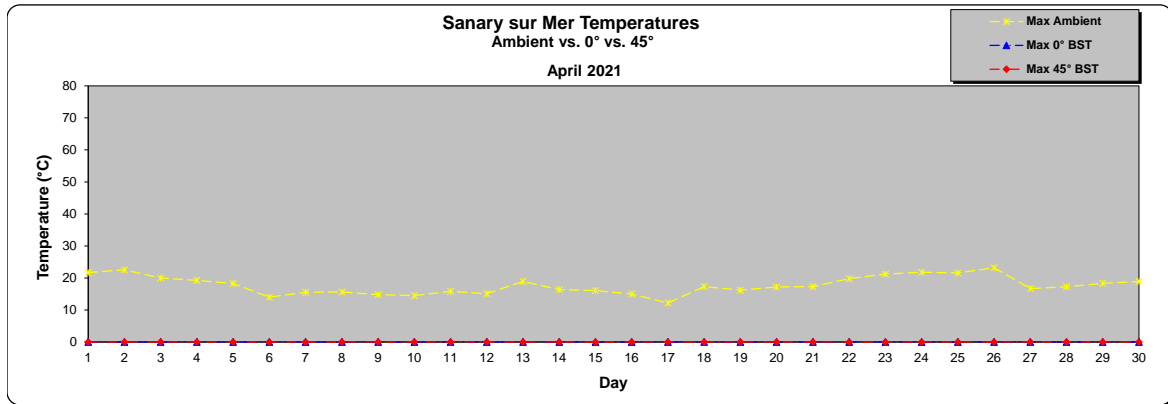
Note:



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 (m/s)		Wind Direction	Rainfall (mm)		
	°C			0°			45°			0°			45°			0°			45°					360°/0°=N			
	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
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°	31.8
10	14	8	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	98	32	66	6.0	1.7	78°	0.0
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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	99	76	93	4.2	0.7	62°	25.4
30	19	12	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	98	72	88	6.1	0.9	87°	0.0
Monthly Avg.	18	8	13	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	81	40	61	6.2	1.1	148°	
Monthly Total																											96.0
YTD <sup>†</sup> Avg.	17	8	12	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	83	43	64	6.3	1.2	155°	
YTD <sup>†</sup> Total																											210.6

<sup>†</sup> Year To Date

Note: \*No data available



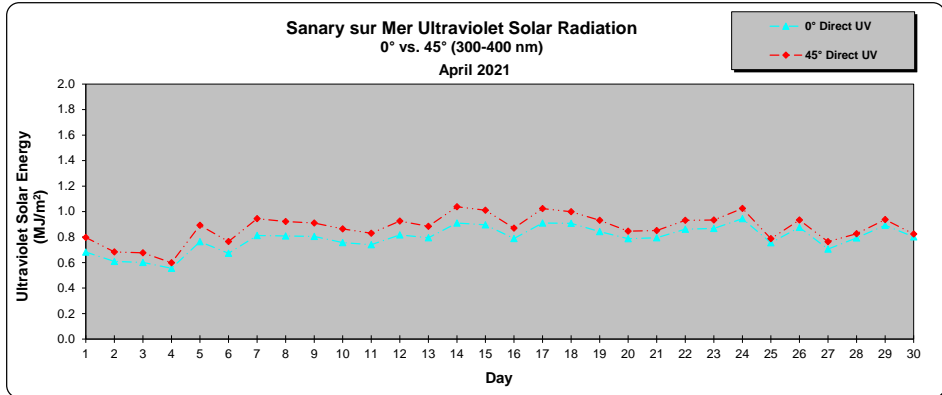
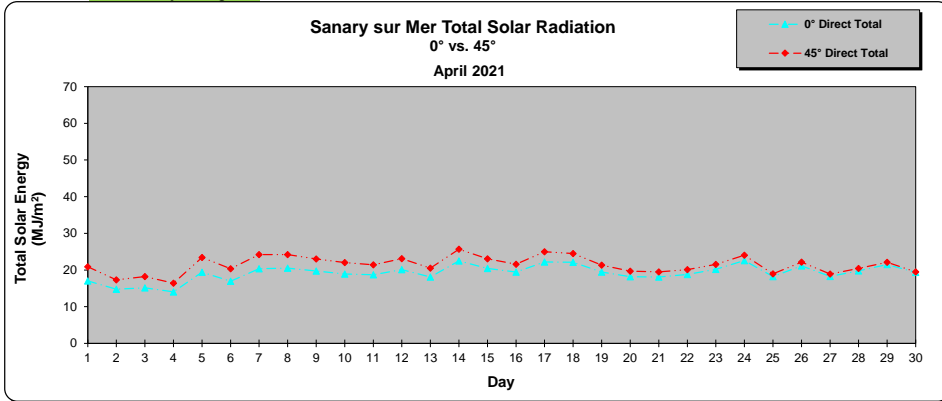
**Solar Radiation Summary**  
**April 2021**  
**Sanary sur Mer, France**

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

Month	Solar Radiation Summary					
	Total Solar Radiation (MJ/m <sup>2</sup> )		Ultraviolet Solar Radiation (MJ/m <sup>2</sup> )			
	Direct		295-385 nm		300-400 nm	
Day	0°	45°	0°	45°	0°	45°
1	17.0	20.9	0.90	1.05	0.68	0.80
2	14.8	17.3	0.81	0.89	0.61	0.68
3	15.1	18.2	0.80	0.90	0.60	0.68
4	14.1	16.4	0.76	0.82	0.56	0.60
5	19.4	23.4	1.00	1.16	0.76	0.89
6	17.0	20.3	0.89	1.01	0.67	0.77
7	20.3	24.2	1.05	1.21	0.81	0.94
8	20.5	24.2	1.05	1.19	0.81	0.92
9	19.8	23.0	1.05	1.18	0.81	0.91
10	18.9	22.1	0.99	1.12	0.76	0.86
11	18.7	21.4	0.98	1.09	0.74	0.83
12	20.1	23.1	1.07	1.20	0.82	0.93
13	18.1	20.5	0.96	1.05	0.79	0.88
14	22.5	25.7	1.18	1.33	0.91	1.04
15	20.4	23.0	1.16	1.30	0.90	1.01
16	19.4	21.6	1.03	1.13	0.79	0.87
17	22.2	25.0	1.18	1.31	0.91	1.02
18	22.1	24.5	1.16	1.27	0.91	1.00
19	19.5	21.4	1.00	1.10	0.84	0.93
20	18.2	19.7	0.95	1.01	0.79	0.85
21	18.1	19.5	0.97	1.03	0.80	0.85
22	18.8	20.1	1.05	1.13	0.86	0.93
23	20.2	21.5	1.14	1.22	0.87	0.93
24	22.6	24.1	1.23	1.33	0.94	1.02
25	18.2	19.0	1.01	1.05	0.76	0.79
26	21.1	22.1	1.16	1.22	0.88	0.93
27	18.3	18.9	0.94	1.00	0.71	0.76
28	19.8	20.4	1.02	1.05	0.79	0.83
29	21.5	22.1	1.18	1.24	0.89	0.94
30	19.4	19.5	1.04	1.05	0.80	0.82
<b>Monthly Total</b>	<b>576.2</b>	<b>643.3</b>	<b>30.75</b>	<b>33.65</b>	<b>23.76</b>	<b>26.23</b>
<b>YTD<sup>1</sup> Total</b>	<b>1484.8</b>	<b>2093.4</b>	<b>75.59</b>	<b>91.00</b>	<b>58.73</b>	<b>71.24</b>

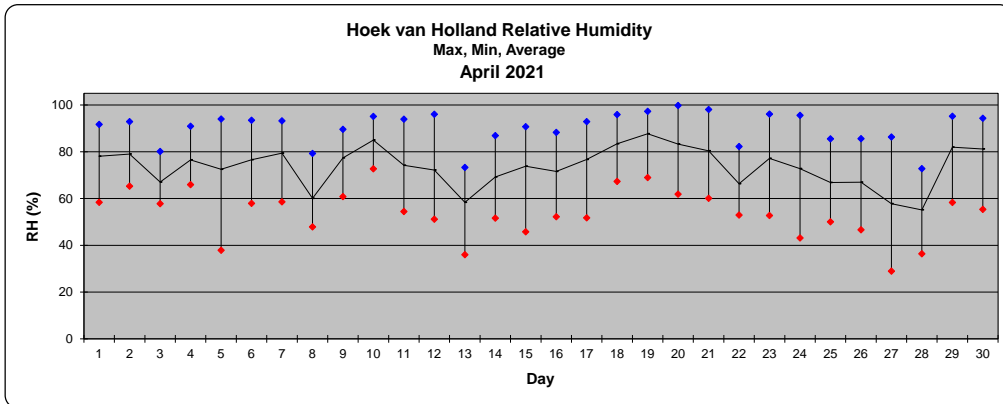
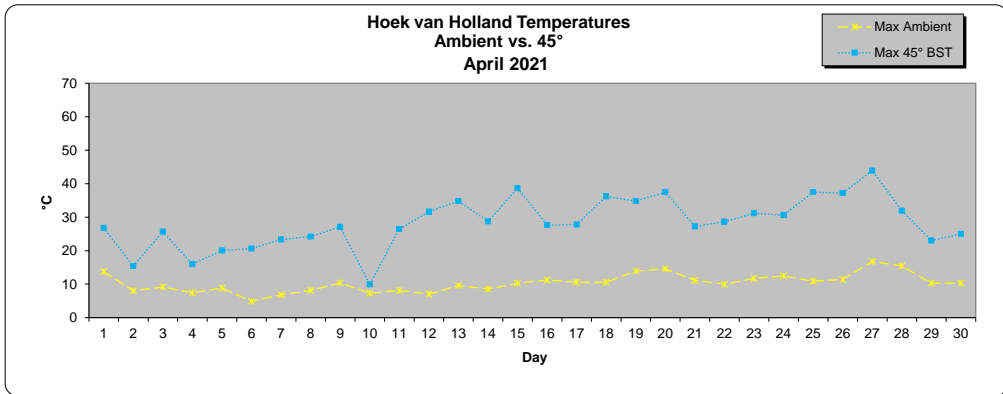
<sup>1</sup> Year To Date Total Solar Radiation - (290-3000 nm) Ultraviolet Solar Radiation - (295-385 nm) or (300-400 nm).

Note: Data = 10yr average



AWSG	Temperature Summary						Climate Summary						
	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (°C)			Relative Humidity			Wind Speed		Wind Direction	Rainfall
Month	°C			45 °			%			(m/s)		360°/0°= N	(mm)
April	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	Avg	Total
1	14	5	9	27	-1	10	92	58	78	10.8	4.2	346°	0.0
2	8	4	6	15	-3	3	93	65	79	10.6	4.5	350°	0.0
3	9	6	7	26	1	8	80	58	67	11.0	5.4	345°	0.0
4	7	5	6	16	1	4	91	66	77	10.2	3.6	281°	0.0
5	9	2	5	20	-2	4	94	38	73	16.9	8.3	284°	0.8
6	5	1	3	21	-3	0	94	58	77	14.5	6.9	297°	5.3
7	7	1	4	23	-4	2	93	59	79	16.8	8.0	284°	5.3
8	8	3	6	24	-1	6	79	48	60	10.5	4.8	217°	0.0
9	10	6	8	27	1	9	90	61	77	9.9	4.3	219°	0.0
10	7	3	5	10	-1	2	95	73	85	9.8	4.7	22°	11.7
11	8	3	5	26	-4	6	94	54	74	12.3	5.2	335°	0.8
12	7	1	5	32	-5	6	96	51	72	9.3	3.5	287°	3.3
13	10	3	7	35	-5	10	73	36	58	6.5	2.7	288°	0.0
14	9	2	5	29	-7	4	87	52	69	9.2	2.8	354°	0.0
15	10	2	6	39	-6	6	91	46	74	8.8	3.0	3°	1.3
16	11	1	6	28	-7	7	88	52	72	10.3	3.9	353°	0.0
17	11	3	7	28	-4	8	93	52	77	10.7	4.2	347°	0.0
18	11	4	8	36	-3	11	96	67	83	5.8	2.4	316°	0.0
19	14	6	9	35	0	8	97	69	88	6.1	2.6	332°	3.6
20	15	5	10	37	-2	13	100	62	83	6.0	2.2	338°	0.0
21	11	5	8	27	-1	7	98	60	80	12.2	4.4	345°	0.0
22	10	3	6	29	-5	7	82	53	66	9.2	3.6	355°	0.0
23	12	1	7	31	-7	9	96	53	77	7.2	2.6	350°	0.0
24	12	3	8	31	-4	8	96	43	73	9.5	3.2	28°	0.0
25	11	4	7	37	-3	6	86	50	67	10.4	4.6	2°	0.0
26	11	2	7	37	-4	9	86	47	67	10.6	3.9	7°	0.0
27	17	2	9	44	-6	13	86	29	58	5.6	2.0	51°	0.0
28	15	4	10	32	-4	10	73	36	55	8.5	3.1	23°	0.0
29	10	6	8	23	2	6	95	58	82	12.5	5.9	306°	19.3
30	10	5	8	25	-2	6	94	55	81	7.6	3.1	301°	8.1
Monthly Avg.	10	3	7	28	-3	7	90	54	74	10.0	4.1	245°	
Monthly Total													59.4
YTD <sup>1</sup> Ava.	8	3	6	21	-3	4	93	64	81	9.9	4.1	194°	
YTD <sup>1</sup> Total													221.2

<sup>1</sup> Year To Date For Pollution (SO2, NOx, O3) visit [www.lml.rivm.nl](http://www.lml.rivm.nl)  
Note: = 5 year average



North Sea Corrosion Test Centre

## Solar Radiation Summary

April 2021

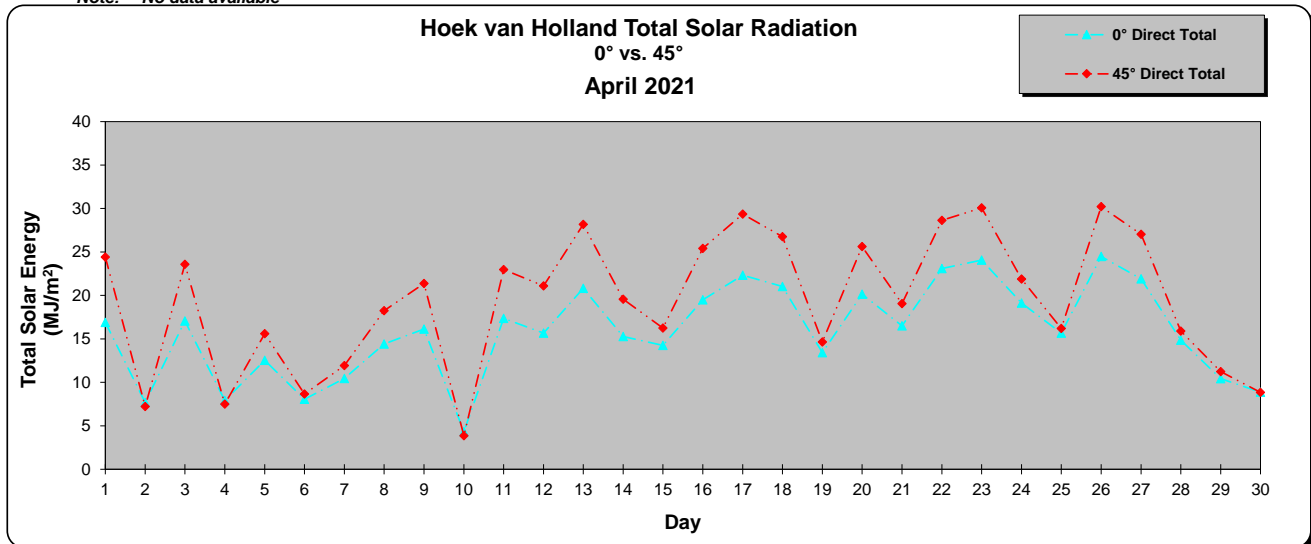
Hoek van Holland, The Netherlands

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

AWSG Solar Radiation Summary		
Month	Total Solar Radiation (MJ/m <sup>2</sup> )	
April	Direct	
Day	0°	45°
1	16.9	24.4
2	7.7	7.2
3	17.1	23.6
4	7.9	7.5
5	12.5	15.6
6	8.1	8.7
7	10.4	11.9
8	14.4	18.2
9	16.1	21.4
10	4.3	3.9
11	17.4	23.0
12	15.7	21.1
13	20.8	28.2
14	15.3	19.6
15	14.3	16.3
16	19.5	25.4
17	22.3	29.4
18	21.0	26.8
19	13.4	14.7
20	20.2	25.6
21	16.5	19.1
22	23.1	28.7
23	24.1	30.1
24	19.1	21.9
25	15.7	16.2
26	24.5	30.2
27	21.9	27.0
28	14.9	15.9
29	10.4	11.2
30	8.9	8.9
<b>Monthly Total</b>	<b>474.3</b>	<b>581.4</b>
<b>YTD<sup>†</sup> Total</b>	<b>1023.8</b>	<b>1448.5</b>

<sup>†</sup> Year To Date Total Solar Radiation - (290-3000nm)

Note: \* No data available



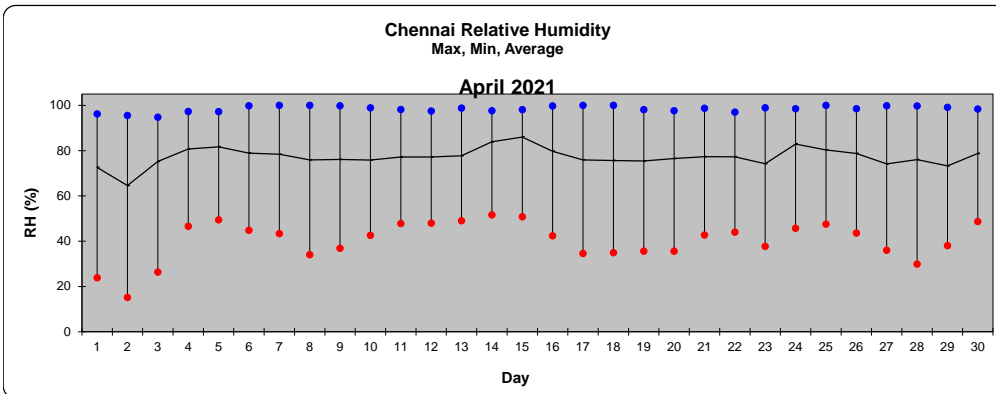
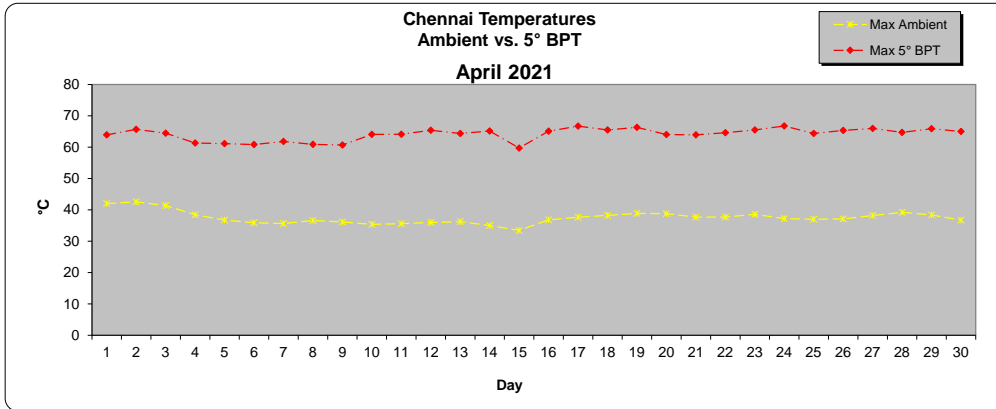


Latitude 12° 35' North, Longitude 79° 48' East Elevation 45 (m)

AWSG	Temperature Summary						Climate Summary						
	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (°C)			Relative Humidity			Wind Speed		Wind Direction	Rainfall
Month	° C			5 °			%			(m/s)		360°/0°= N	(mm)
April	° C			5 °			%			(m/s)		360°/0°= N	(mm)
Day	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	Avg	Total
1	42	26	32	64	24	37	96	24	73	6.0	0.9	107°	0.0
2	43	27	33	66	25	37	96	15	65	5.4	0.9	37°	0.0
3	41	27	32	64	24	36	95	26	75	4.8	0.9	124°	0.0
4	38	27	31	61	25	35	97	47	81	4.6	0.9	82°	0.0
5	37	27	31	61	24	35	97	49	82	3.8	0.9	83°	0.0
6	36	25	30	61	23	34	100	45	79	3.5	0.8	89°	0.0
7	36	24	29	62	21	33	100	43	78	3.6	0.8	94°	0.0
8	37	23	29	61	21	33	100	34	76	5.2	0.7	116°	0.0
9	36	24	29	61	21	32	100	37	76	4.1	0.7	99°	0.0
10	35	23	29	64	20	33	99	43	76	4.6	0.9	82°	0.0
11	36	24	29	64	22	33	98	48	77	5.2	0.9	66°	0.0
12	36	26	30	65	24	35	98	48	77	5.5	0.8	91°	0.0
13	36	25	30	64	23	34	99	49	78	4.6	0.8	104°	0.0
14	35	26	29	65	24	32	98	52	84	4.5	0.7	75°	10.2
15	33	24	28	60	22	30	98	51	86	4.0	0.9	358°	3.0
16	37	25	30	65	23	35	100	42	80	5.1	0.8	128°	0.0
17	38	26	31	67	24	36	100	35	76	4.4	0.7	109°	0.0
18	38	26	31	66	24	36	100	35	76	3.7	0.7	107°	0.0
19	39	27	32	66	24	36	98	36	75	4.1	0.8	115°	0.0
20	39	27	31	64	25	36	98	36	76	4.2	0.7	121°	0.0
21	38	27	31	64	25	35	99	43	77	7.4	0.9	110°	0.0
22	38	27	31	65	25	36	97	44	77	5.2	0.9	116°	0.0
23	39	27	32	66	25	36	99	38	74	5.3	0.8	123°	0.0
24	37	25	30	67	22	33	99	46	83	3.6	0.6	103°	16.5
25	37	27	31	64	25	36	100	48	80	3.9	0.8	131°	0.0
26	37	27	31	65	25	36	99	44	79	4.1	0.8	138°	0.0
27	38	27	31	66	25	36	100	36	74	4.1	0.8	111°	0.0
28	39	27	32	65	24	37	100	30	76	3.7	0.8	127°	0.0
29	38	27	32	66	25	37	99	38	73	4.4	0.8	104°	0.0
30	37	27	31	65	25	35	98	49	79	4.0	0.9	94°	0.0
Monthly Avg.	38	26	31	64	24	35	98	40	77	4.6	0.8	111°	
Monthly Total													29.7
YTD <sup>†</sup> Avg.	34	23	27	58	21	31	99	46	80	4.3	0.8	114°	
YTD <sup>†</sup> Total													140.5

<sup>†</sup> Year To Date

Note: \* Data Unavailable



**Solar Radiation Summary**  
**April 2021**  
**Chennai, India**

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

Month	Solar Radiation Summary		
	Total Solar Radiation (MJ/m <sup>2</sup> )	Ultraviolet Solar Radiation (MJ/m <sup>2</sup> )	
April	Direct	295-385 nm	300-400 nm
Day	5°	5°	
1	23.0	0.88	0.99
2	24.7	0.98	1.09
3	24.0	0.95	1.06
4	20.8	0.81	0.90
5	19.5	0.68	0.76
6	22.5	0.87	0.97
7	23.5	0.93	1.04
8	23.3	0.89	1.00
9	21.7	0.85	0.95
10	23.92	1.04	1.16
11	22.3	0.97	1.09
12	24.2	1.09	1.21
13	22.6	1.03	1.15
14	17.0	0.80	0.90
15	14.5	0.72	0.80
16	22.4	0.94	1.05
17	24.6	1.03	1.15
18	25.1	1.03	1.15
19	21.4	0.89	0.99
20	22.5	0.89	0.99
21	23.3	0.93	1.04
22	23.1	0.93	1.04
23	22.5	0.91	1.02
24	16.5	0.68	0.76
25	23.6	0.97	1.09
26	24.7	1.02	1.14
27	24.5	1.00	1.12
28	25.3	1.02	1.14
29	24.3	0.95	1.06
30	20.4	0.86	0.96
<b>Monthly Total</b>	<b>671.5</b>	<b>27.55</b>	<b>30.75</b>
<b>YTD<sup>1</sup> Total</b>	<b>2470.8</b>	<b>112.23</b>	<b>125.29</b>

<sup>1</sup> Year To Date Total Solar Radiation - (290-3000nm)

Note:

