



# ATLAS

## WEATHERING SERVICES GROUP

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

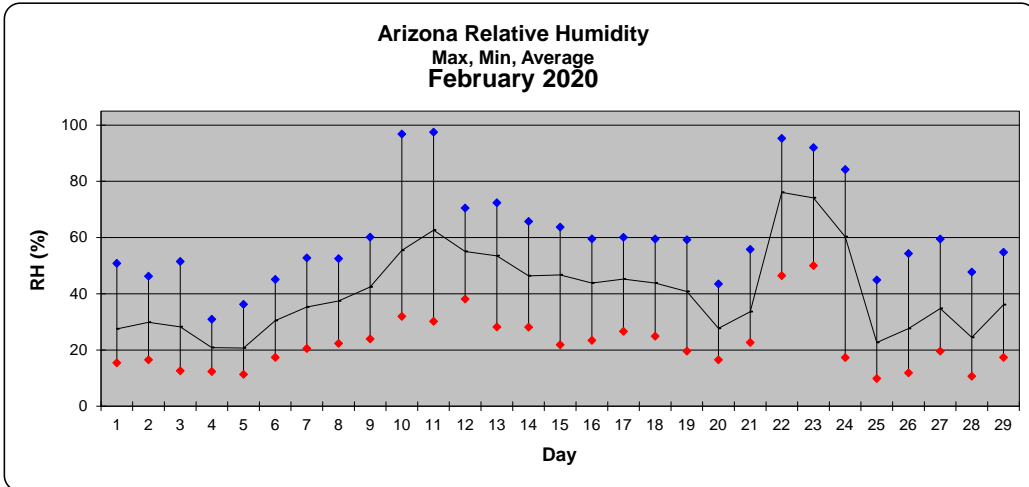
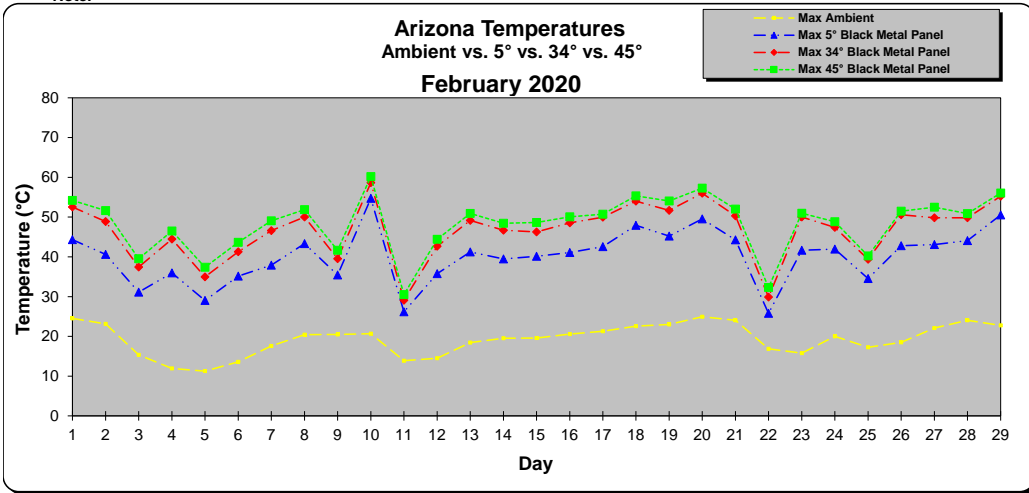


### Weather Summary February 2020 Phoenix, Arizona

AWSG		Temperature Summary												Climate Summary					
Month	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (° C)									Relative Humidity			Wind Speed		Wind Direction	Rainfall
February	(° 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	25	8	16	44	6	18	53	6	20	54	6	20	51	15	27	8.3	2.2	28°	0.0
2	23	11	16	41	7	18	49	8	21	52	8	22	46	17	30	7.0	2.0	64°	0.0
3	15	5	11	31	3	12	37	4	14	40	4	14	52	13	28	12.5	2.2	227°	0.0
4	12	1	6	36	0	9	44	0	10	46	0	11	31	12	21	12.8	3.6	18°	0.0
5	11	2	5	29	-1	7	35	0	8	37	0	9	36	11	21	11.9	3.4	18°	0.0
6	14	0	6	35	-2	10	41	-1	12	44	-1	13	45	17	30	5.2	1.5	59°	0.0
7	18	3	10	38	0	13	47	0	16	49	1	17	53	21	35	5.8	1.7	48°	0.0
8	20	5	12	43	3	15	50	3	18	52	4	19	53	22	37	6.9	1.8	39°	0.0
9	20	6	13	35	3	15	40	3	16	42	4	17	60	24	42	7.4	1.7	66°	0.0
10	21	10	14	55	8	17	59	8	17	60	8	18	97	32	55	8.2	2.0	86°	8.1
11	14	5	9	26	2	10	29	2	11	31	3	11	98	30	63	12.3	3.3	6°	27.9
12	15	3	9	36	-1	12	43	-1	14	44	0	15	70	38	55	5.9	1.7	43°	0.0
13	18	5	11	41	3	14	49	4	17	51	4	17	72	28	54	6.8	2.1	35°	0.0
14	20	8	13	39	6	16	47	6	18	48	6	19	66	28	46	7.8	2.3	39°	0.0
15	20	7	13	40	5	16	46	5	18	49	6	19	64	22	47	7.4	2.0	41°	0.0
16	21	7	13	41	5	17	49	5	19	50	5	20	60	23	44	6.4	1.8	29°	0.0
17	21	9	14	43	7	18	50	7	20	51	7	20	60	27	45	7.1	2.0	38°	0.0
18	23	10	15	48	8	19	54	9	20	55	9	21	59	25	44	8.9	2.3	22°	0.0
19	23	10	16	45	8	19	52	9	21	54	9	22	59	20	41	6.2	1.9	32°	0.0
20	25	11	17	50	9	21	56	9	22	57	9	22	44	17	28	11.2	3.1	18°	0.0
21	24	14	18	44	13	21	50	13	22	52	14	23	56	23	34	8.4	2.3	55°	0.0
22	17	11	14	26	8	14	30	9	14	32	9	14	95	46	76	10.1	1.9	134°	22.9
23	16	7	11	42	4	13	50	5	14	51	5	14	92	50	74	4.5	1.1	147°	0.0
24	20	7	13	42	5	17	47	6	19	49	6	19	84	17	60	9.8	2.3	42°	0.0
25	17	6	12	35	2	14	39	3	15	40	3	16	45	10	23	10.9	2.7	8°	0.0
26	19	4	11	43	1	14	51	2	16	51	2	16	54	12	28	8.2	2.0	24°	0.0
27	22	8	14	43	3	18	50	4	20	52	4	20	59	20	35	8.7	2.3	37°	0.0
28	24	13	17	44	10	19	50	11	20	51	11	20	48	11	24	9.3	2.8	44°	0.0
29	23	8	15	51	5	20	55	5	21	56	6	22	55	17	36	6.6	1.9	45°	0.0
Monthly Avg.	19	7	13	40	4	15	47	5	17	48	5	18	61	22	41	8.4	2.2	51°	
Monthly Total																			58.9
YTD † Avg.	19	7	12	38	5	15	45	5	17	47	5	17	62	23	42	8.6	2.2	57°	
YTD † Total																			61.0

† Year To Date

Note:



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

**Miami, Florida**

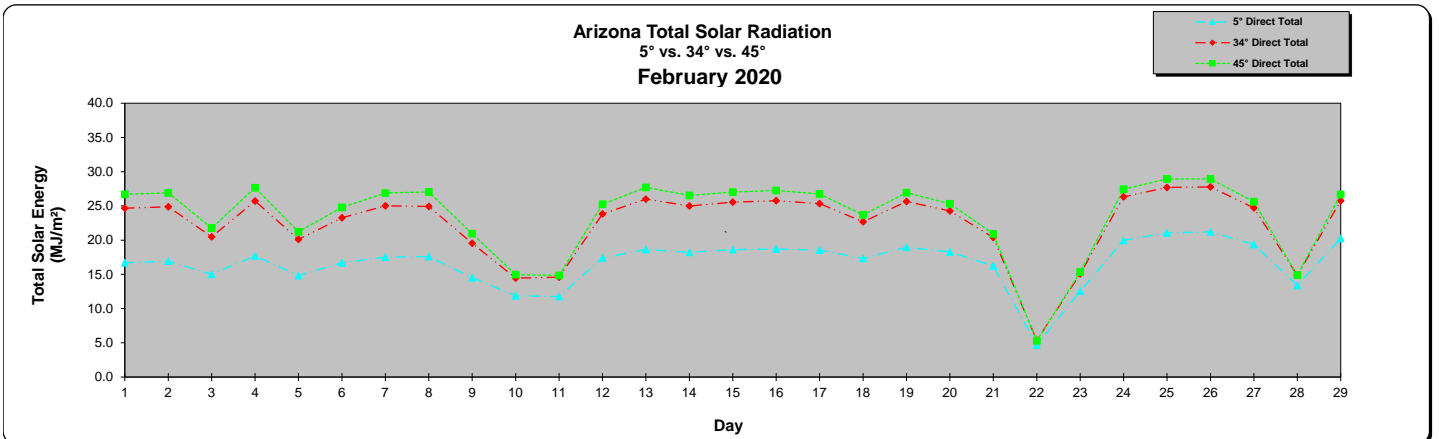
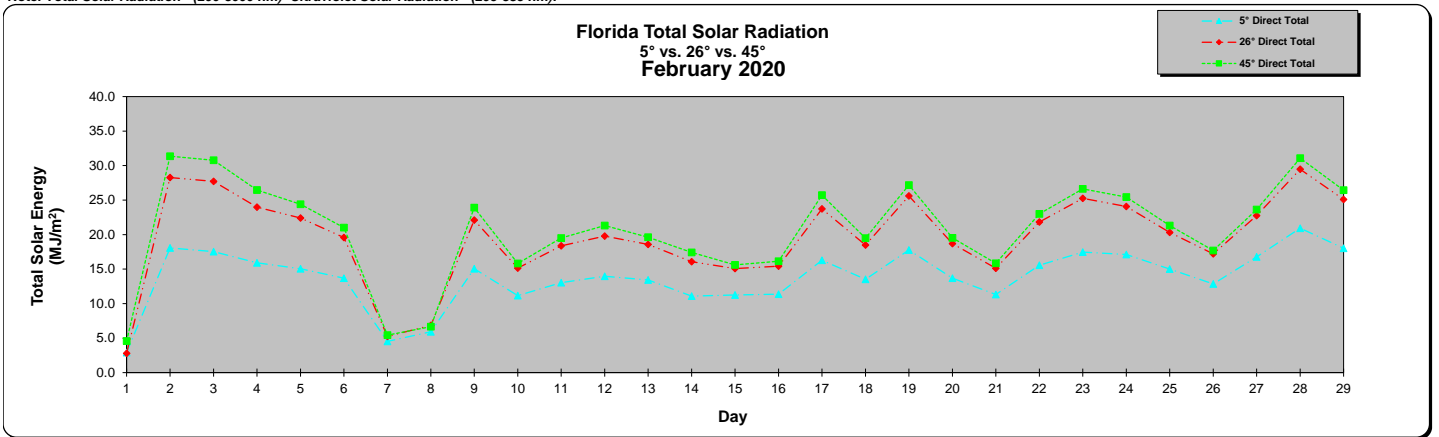
Latitude 33° 54' North, Longitude 112° 08' West, Elevation 610 (m)

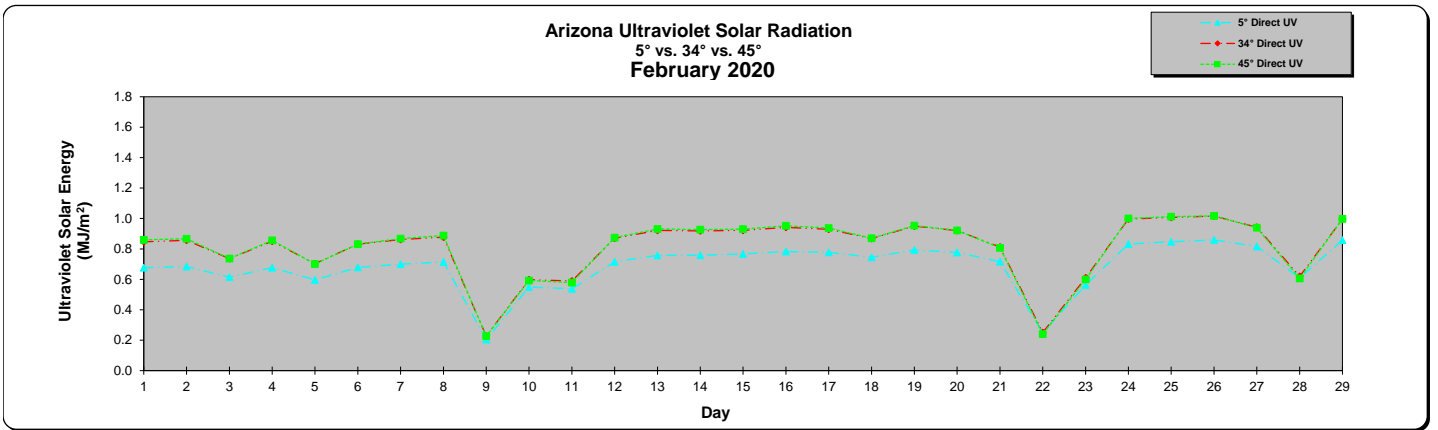
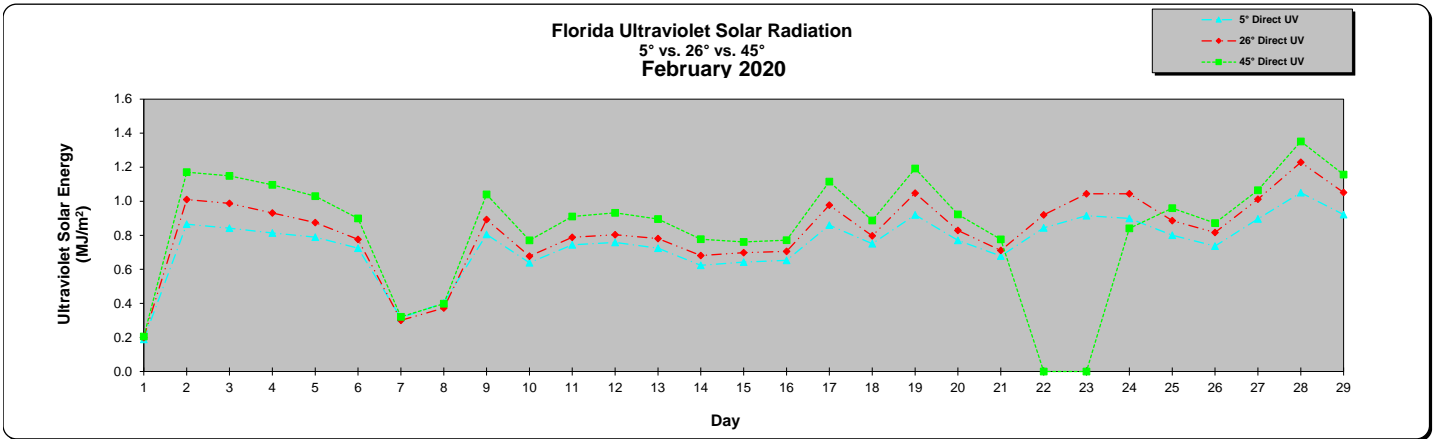
AWSG Month	Solar Radiation Summary											
	Total Solar Radiation (MJ/m2)						Ultraviolet Solar Radiation (MJ/m <sup>2</sup> )					
	Direct			Underglass			Direct			Underglass		
	5°	26°	45°	5°	26°	45°	5°	26°	45°	5°	26°	45°
1	2.9	2.8	4.6	2.9	2.7	2.3	0.19	0.20	0.21	0.19	0.13	0.12
2	18.1	28.3	31.4	17.2	22.0	20.3	0.87	1.01	1.17	0.75	0.66	0.60
3	17.5	27.7	30.8	16.9	21.4	19.7	0.84	0.99	1.15	0.73	0.64	0.59
4	15.9	24.0	26.5	15.7	18.7	17.0	0.81	0.93	1.10	0.70	0.61	0.55
5	15.0	22.4	24.4	14.5	17.5	15.7	0.79	0.88	1.03	0.67	0.57	0.51
6	13.7	19.6	21.0	12.9	15.0	13.2	0.72	0.78	0.90	0.61	0.50	0.44
7	4.5	5.2	5.4	4.4	4.2	3.4	0.31	0.30	0.32	0.28	0.20	0.16
8	5.9	6.9	6.7	5.7	5.4	4.2	0.40	0.37	0.40	0.33	0.24	0.19
9	15.1	22.1	23.9	14.7	17.5	15.5	0.81	0.89	1.04	0.68	0.58	0.51
10	11.2	15.1	15.8	10.8	11.8	10.2	0.64	0.68	0.77	0.54	0.44	0.37
11	13.0	18.4	19.5	12.5	14.4	12.6	0.74	0.79	0.91	0.63	0.51	0.45
12	14.0	19.8	21.3	13.1	15.4	13.6	0.76	0.80	0.93	0.64	0.52	0.46
13	13.4	18.6	19.6	13.2	14.6	12.5	0.72	0.78	0.90	0.62	0.51	0.43
14	11.1	16.1	17.4	11.3	12.4	11.1	0.62	0.68	0.78	0.54	0.44	0.38
15	11.2	15.1	15.6	11.4	11.9	10.1	0.64	0.70	0.76	0.57	0.45	0.38
16	11.4	15.4	16.1	11.0	12.4	10.3	0.65	0.71	0.77	0.57	0.46	0.38
17	16.3	23.7	25.7	16.0	18.7	16.3	0.86	0.98	1.12	0.74	0.64	0.55
18	13.5	18.5	19.5	13.1	14.2	12.2	0.75	0.80	0.89	0.64	0.52	0.43
19	17.8	25.6	27.2	17.3	20.0	17.3	0.92	1.05	1.19	0.80	0.68	0.59
20	13.7	18.7	19.5	13.5	14.6	12.3	0.77	0.83	0.92	0.66	0.54	0.44
21	11.3	15.1	15.9	11.4	11.7	10.0	0.68	0.71	0.78	0.58	0.46	0.38
22	15.6	21.8	23.0	15.2	16.7	14.5	0.84	0.92	*	0.72	0.60	0.50
23	17.5	25.3	26.6	17.3	19.9	17.0	0.92	1.04	*	0.80	0.68	0.58
24	17.1	24.1	25.4	17.2	19.4	16.6	0.90	1.04	0.84	0.80	0.68	0.57
25	15.0	20.3	21.3	14.6	16.0	13.7	0.80	0.89	0.96	0.70	0.58	0.48
26	12.8	17.2	17.7	13.0	13.8	11.7	0.74	0.82	0.87	0.66	0.53	0.44
27	16.8	22.7	23.6	16.5	18.2	15.1	0.90	1.01	1.06	0.80	0.66	0.54
28	20.9	29.5	31.1	21.1	23.8	20.3	1.05	1.23	1.35	0.94	0.80	0.68
29	18.0	25.1	26.4	17.7	20.0	17.1	0.92	1.05	1.16	0.82	0.68	0.57
Monthly Total	400.3	565.0	603.0	392.3	444.2	385.5	21.58	23.85	24.27	18.68	15.50	13.28
YTD <sup>1</sup> Total	806.9	1195.0	1317.3	782.4	937.0	841.4	42.53	51.38	52.19	36.58	31.09	27.39

AWSG Month	Solar Radiation Summary												EMMAQUA™	
	Total Solar Radiation (MJ/m2)						Ultraviolet Solar Radiation (MJ/m2)						Total	UV
	Direct			Underglass			Direct			Underglass			(MJ/m <sup>2</sup> )	
	5°	34°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°		
1	16.7	24.7	26.7	13.2	20.8	23.5	0.68	0.85	0.86	0.49	0.63	0.63	187	4.42
2	16.9	24.9	26.9	13.4	20.9	23.6	0.68	0.86	0.87	0.50	0.63	0.63	189	4.48
3	15.0	20.5	21.8	12.1	17.4	19.1	0.61	0.74	0.74	0.45	0.55	0.54	102	2.57
4	17.7	25.7	27.7	13.9	21.7	24.1	0.68	0.85	0.86	0.51	0.64	0.64	124	2.98
5	14.8	20.1	21.2	11.9	16.9	18.6	0.60	0.70	0.70	0.44	0.53	0.52	0	0.00
6	16.7	23.3	24.8	13.4	19.7	21.9	0.68	0.83	0.83	0.51	0.62	0.62	149	3.65
7	17.5	25.0	26.9	13.9	21.1	23.6	0.70	0.86	0.87	0.51	0.64	0.64	185	4.25
8	17.6	24.9	27.0	14.1	21.3	23.6	0.71	0.88	0.89	0.52	0.66	0.65	186	4.39
9	14.5	19.5	21.0	11.7	16.7	18.4	0.20	0.23	0.23	0.15	0.17	0.16	186	4.39
10	11.9	14.5	15.0	9.7	12.3	13.1	0.55	0.60	0.59	0.40	0.44	0.42	0	0.00
11	11.8	14.6	14.9	9.7	12.3	13.2	0.54	0.59	0.58	0.39	0.44	0.42	0	0.00
12	17.4	23.8	25.3	14.2	20.1	22.2	0.72	0.87	0.87	0.53	0.65	0.64	171	4.16
13	18.6	26.0	27.7	14.9	21.9	24.2	0.72	0.86	0.86	0.56	0.69	0.68	191	4.65
14	18.2	25.0	26.5	14.9	21.3	23.5	0.76	0.92	0.93	0.56	0.69	0.68	144	3.91
15	18.6	25.5	27.0	15.1	21.7	23.8	0.77	0.92	0.93	0.56	0.69	0.68	186	4.56
16	18.7	25.8	27.3	15.1	21.8	24.0	0.78	0.94	0.95	0.57	0.70	0.69	187	4.76
17	18.5	25.4	26.8	15.0	21.4	23.5	0.78	0.93	0.94	0.57	0.69	0.68	179	4.47
18	17.3	22.7	23.6	14.3	19.3	20.9	0.75	0.87	0.87	0.54	0.64	0.63	147	3.77
19	19.0	25.7	26.9	15.5	21.8	23.8	0.79	0.95	0.95	0.58	0.71	0.69	182	4.67
20	18.3	24.3	25.3	15.1	20.8	22.5	0.78	0.92	0.92	0.57	0.68	0.67	0	0.00
21	16.2	20.4	20.9	13.5	17.5	18.6	0.72	0.81	0.81	0.52	0.60	0.58	69	2.18
22	4.7	5.4	5.3	3.5	4.3	4.6	0.25	0.25	0.24	0.18	0.18	0.17	0	0.00
23	12.6	15.1	15.4	10.0	12.5	13.4	0.56	0.61	0.60	0.40	0.45	0.43	0	0.00
24	20.0	26.3	27.5	16.1	22.2	24.0	0.83	1.00	1.00	0.61	0.73	0.72	160	4.31
25	21.1	27.7	28.9	17.1	23.4	25.2	0.85	1.01	1.01	0.62	0.75	0.74	193	5.10
26	21.2	27.8	28.9	17.3	23.5	25.3	0.86	1.02	1.02	0.64	0.76	0.75	173	4.57
27	19.4	24.7	25.6	16.0	21.0	22.4	0.82	0.94	0.94	0.60	0.70	0.68	151	4.06
28	13.4	14.9	14.9	11.1	12.6	13.0	0.61	0.62	0.61	0.44	0.45	0.43	0	0.00
29	20.3	25.8	26.7	17.0	22.1	23.6	0.86	1.00	1.00	0.63	0.74	0.72	189	5.03
Monthly Total	484.5	649.7	684.2	392.4	549.9	601.1	19.86	23.47	23.52	14.53	17.40	17.14	3629	91.32
YTD <sup>1</sup> Total	893.7	1262.3	1354.4	711.9	1070.0	1189.5	36.45	43.84	44.16	26.52	32.61	32.37	6462.13	152.29

<sup>1</sup> Year To Date

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



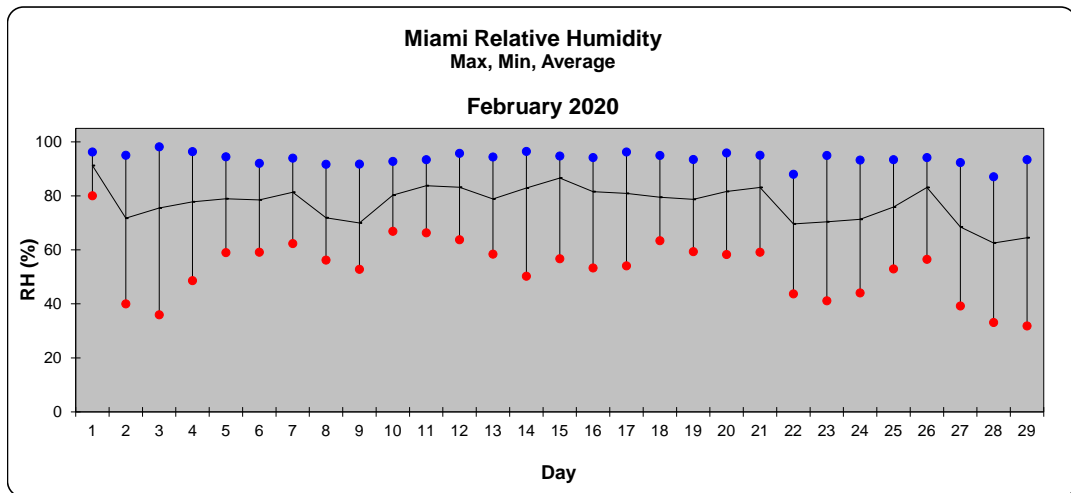
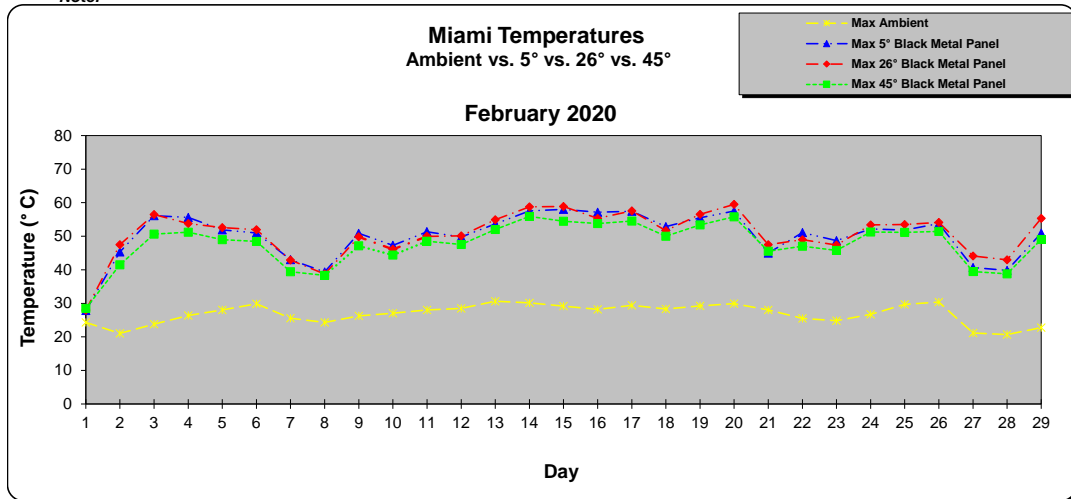


Latitude 25° 34' North, Longitude 80° 28' West, Elevation 2 (m)

Month	Temperature Summary												Climate Summary						
	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (° C)									Relative Humidity			Wind Speed		Wind Direction	Rainfall
	° C			5 °			26 °			45 °			%			m/sec		360°/0°=N	(mm)
February	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Avg.	Avg	Total
1	24	16	20	28	15	20	28	15	20	28	14	20	96	80	91	24.4	0.0	87°	14.5
2	21	10	15	45	7	20	47	7	20	41	7	18	95	40	72	19.0	0.0	158°	0.0
3	24	7	15	56	4	21	56	4	21	51	3	19	98	36	76	13.6	0.0	209°	0.0
4	26	12	19	56	9	23	54	9	23	51	9	22	96	49	78	19.8	0.0	234°	0.0
5	28	15	22	52	13	26	53	13	25	49	13	24	95	59	79	17.2	0.0	281°	0.0
6	30	21	25	51	19	28	52	19	28	48	19	27	92	59	79	26.2	1.8	283°	0.0
7	26	16	21	43	14	21	43	14	21	39	14	21	94	62	81	20.5	0.3	122°	15.2
8	24	14	18	39	13	20	39	13	20	38	13	20	92	56	72	18.0	0.0	191°	0.0
9	26	17	22	51	15	26	50	15	25	47	14	25	92	53	70	27.3	0.0	235°	0.0
10	27	22	24	47	21	26	46	21	26	44	20	25	93	67	80	24.8	2.5	269°	4.3
11	28	22	24	51	20	28	50	20	27	49	20	27	93	66	84	20.8	1.4	281°	0.0
12	29	20	24	50	18	27	50	18	27	48	18	26	96	64	83	22.6	0.0	266°	0.0
13	31	21	25	54	20	28	55	20	28	52	19	27	94	58	79	19.4	0.0	294°	0.0
14	30	19	24	58	17	27	59	17	27	56	17	26	97	50	83	13.6	0.0	216°	3.3
15	29	19	23	58	18	26	59	18	26	54	18	25	95	57	87	19.0	0.0	193°	1.8
16	28	19	24	57	18	26	55	18	26	54	17	26	94	53	82	19.4	0.0	262°	6.1
17	29	17	23	57	15	28	58	15	28	55	15	26	96	54	81	19.8	0.0	239°	0.0
18	28	20	25	53	18	28	52	18	27	50	17	27	95	63	79	22.3	0.0	268°	0.0
19	29	21	25	55	19	30	57	19	30	53	19	29	94	59	79	18.0	0.0	261°	0.0
20	30	20	24	58	18	28	59	17	28	56	17	27	96	58	82	16.9	0.0	205°	0.5
21	28	15	21	45	14	23	47	15	23	46	15	23	95	59	83	23.0	1.8	142°	0.3
22	25	13	19	51	12	23	49	12	23	47	12	22	88	44	70	25.9	1.8	195°	0.0
23	25	15	19	49	11	23	47	11	23	46	11	22	95	41	70	23.4	0.0	210°	0.3
24	27	14	20	52	11	24	53	11	24	51	11	23	93	44	71	23.4	0.0	256°	0.0
25	30	17	24	52	14	27	54	14	27	51	14	26	93	53	76	19.4	0.0	286°	0.0
26	30	19	25	54	18	28	54	18	28	51	18	28	94	57	83	22.6	0.0	216°	8.9
27	21	12	18	41	9	21	44	9	22	39	9	21	92	39	68	19.4	0.0	153°	0.0
28	21	9	14	40	7	18	43	7	18	39	7	17	87	33	63	22.6	0.0	150°	0.0
29	23	7	15	51	4	18	55	3	19	49	3	17	93	32	64	21.2	0.0	161°	0.0
<b>Monthly Avg.</b>	27	16	21	50	14	24	51	14	25	48	14	24	94	53	77	20.8	0.3	218°	
<b>Monthly Total</b>																			55.1
<b>YTD<sup>†</sup> Avg.</b>	27	16	21	50	14	24	50	13	24	47	13	23	93	52	76	20.4	0.6	213°	80.0
<b>YTD<sup>†</sup> Total</b>																			

<sup>†</sup> Year To Date

Note:

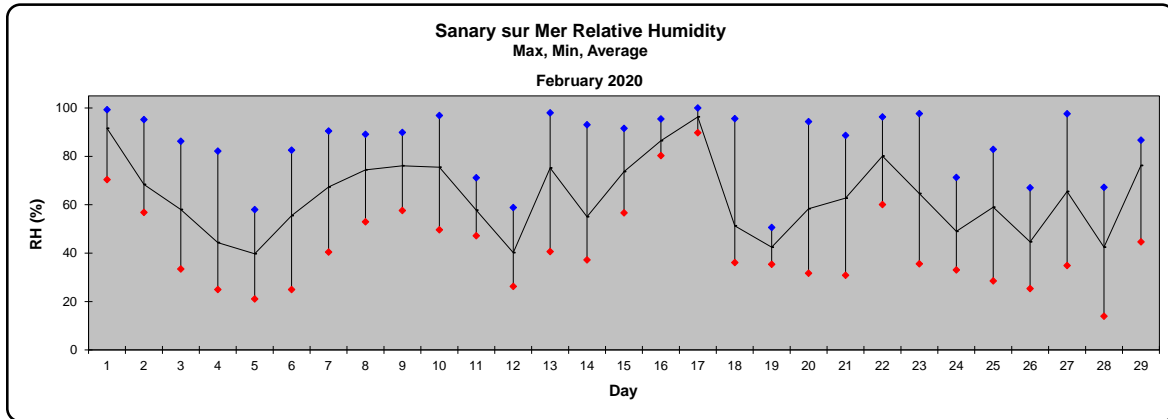
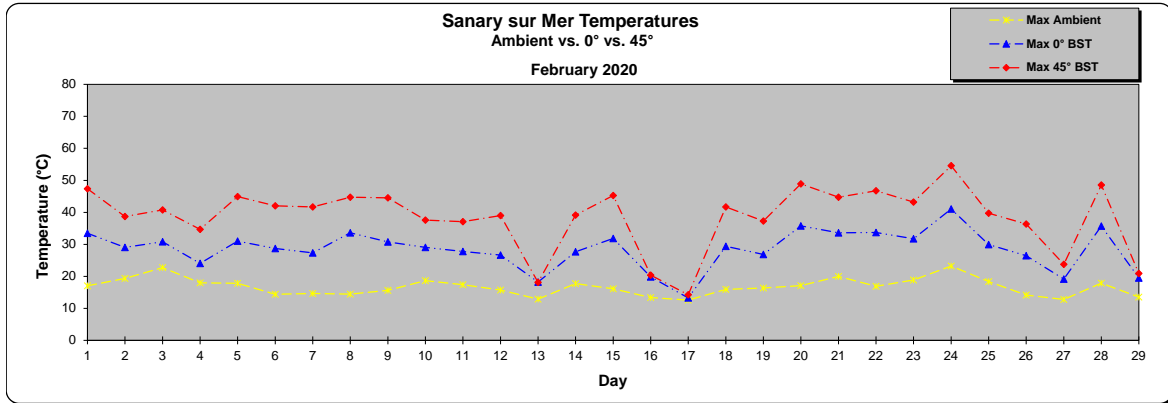


Latitude 43° 08' North, Longitude 05° 49' East, Elevation 110 (m)

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)									
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	360°/0°=N	Total								
1	17	8	12	33	6	12	47	7	15	32	6	12	41	6	14	35	6	12	47	6	14	99	70	92	3.4	0.6	7°	0.0		
2	19	10	15	29	7	16	39	8	19	27	7	16	34	8	18	30	7	16	39	7	18	95	57	68	7.7	1.3	278°	0.5		
3	23	13	17	31	10	18	41	11	21	30	10	18	36	11	20	31	10	18	41	11	20	86	33	58	6.4	1.1	279°	1.3		
4	18	7	13	24	5	14	35	5	17	23	5	14	29	5	15	25	5	14	35	5	16	82	25	44	12.8	2.2	274°	0.0		
5	18	6	11	31	4	12	45	4	17	30	4	12	41	4	15	31	3	12	45	4	16	58	21	40	6.7	1.0	4°	0.0		
6	14	5	10	29	2	11	42	2	14	27	2	10	39	2	12	30	1	10	42	2	13	83	25	55	4.6	1.2	59°	0.0		
7	15	4	9	27	1	10	42	2	15	26	1	10	36	1	12	29	1	10	42	1	14	91	40	67	4.0	0.9	32°	0.0		
8	14	7	10	34	4	12	45	5	15	31	4	12	40	2	13	34	4	12	44	4	14	89	53	74	5.4	1.4	73°	0.0		
9	16	8	11	31	5	14	45	6	17	30	5	13	41	1	16	32	4	13	45	5	16	90	58	76	5.4	1.0	75°	0.0		
10	19	11	14	29	10	16	38	11	18	26	10	15	31	10	16	29	10	15	37	10	17	97	50	76	8.6	1.3	281°	0.0		
11	17	12	14	28	10	15	37	11	17	26	10	15	32	10	16	29	10	15	38	10	16	71	47	58	9.0	2.0	271°	0.0		
12	16	7	11	27	4	12	39	5	16	25	3	12	33	0	14	28	3	12	39	4	15	59	26	40	6.0	1.2	279°	0.0		
13	13	8	10	18	5	10	18	6	11	19	5	10	18	3	10	20	5	10	19	5	10	98	41	75	4.0	0.4	13°	0.0		
14	18	9	12	28	5	13	39	6	17	26	5	13	33	5	15	29	4	13	39	5	16	93	37	55	8.2	1.5	289°	0.0		
15	16	6	11	32	3	13	45	4	16	29	3	12	40	3	14	32	2	13	45	3	15	92	57	74	6.9	1.3	68°	0.0		
16	13	8	12	20	6	13	20	7	13	19	6	13	20	6	13	20	6	13	21	6	13	96	80	87	4.0	0.8	77°	0.0		
17	13	10	12	13	9	12	14	10	12	14	9	12	14	4	12	14	9	12	14	9	12	100	90	96	4.3	0.6	107°	0.0		
18	16	8	11	29	6	13	42	6	17	27	5	13	36	2	15	31	5	13	42	5	16	96	36	51	7.8	1.5	278°	0.0		
19	16	7	12	27	4	13	37	5	17	24	5	13	31	5	15	28	4	13	37	4	16	51	35	42	9.6	1.8	277°	0.0		
20	17	7	12	36	4	14	49	5	19	34	4	14	44	4	17	36	3	14	48	4	18	94	32	58	5.5	0.7	60°	0.0		
21	20	6	12	34	3	13	45	4	17	31	3	13	38	4	15	35	3	13	45	4	16	89	31	63	5.5	0.8	327°	0.0		
22	17	7	11	34	4	13	47	5	18	33	4	13	43	4	16	35	4	13	47	4	17	96	60	80	3.7	0.8	21°	0.0		
23	19	7	13	32	5	14	43	6	18	28	5	14	36	5	16	32	5	14	42	5	18	98	36	65	5.9	0.9	294°	0.0		
24	23	10	16	41	7	18	55	7	22	40	6	18	51	6	21	42	6	18	54	6	21	71	33	49	4.2	0.7	309°	0.0		
25	18	7	13	30	4	14	40	5	16	28	4	13	34	3	14	32	3	14	39	4	16	83	29	59	7.4	1.1	290°	0.0		
26	14	7	10	26	4	12	36	5	15	24	4	12	29	4	12	28	3	12	37	4	14	67	25	45	10.3	2.2	270°	0.0		
27	13	5	9	19	2	9	24	3	10	19	3	9	23	3	9	21	2	9	27	2	9	98	35	65	8.2	1.1	271°	0.0		
28	18	7	11	36	5	14	49	5	18	33	5	13	44	5	15	36	4	14	48	5	17	67	14	42	5.7	1.1	301°	0.0		
29	14	7	12	20	4	12	21	5	12	19	4	12	20	4	11	20	4	12	22	4	12	87	45	76	6.5	1.7	78°	0.0		
Monthly Avg.	17	8	12	28	5	13	39	6	16	27	5	13	34	4	14	29	5	13	39	5	15	85	42	63	6.5	1.2	181°	0.0		
Monthly Total																													1.8	
YTD <sup>†</sup> Avg.	16	7	11	26	5	12	36	6	15	25	5	12	32	4	13	27	5	12	36	5	14	88	49	68	6.1	1.2	151°	0.0		
YTD <sup>†</sup> Total																													2.0	

<sup>†</sup> Year To Date

Note: \*No data available

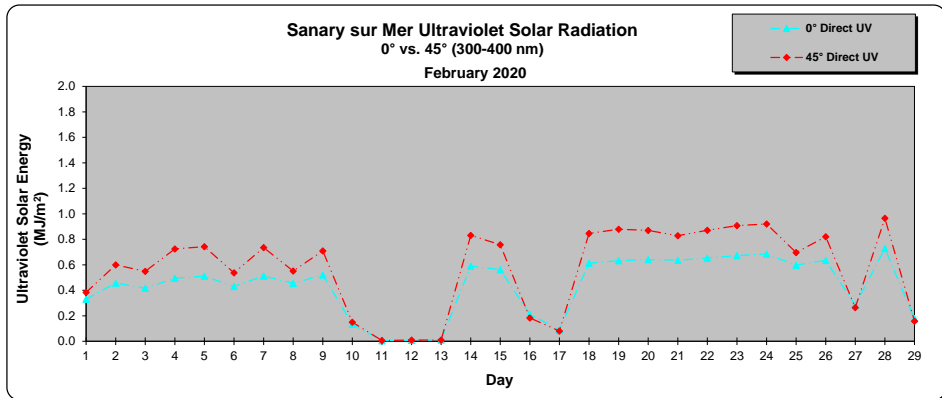
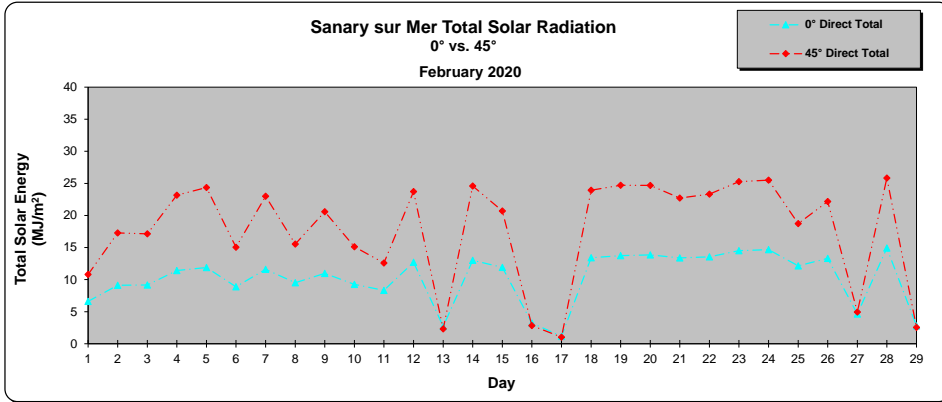


**Solar Radiation Summary**  
**February 2020**  
**Sanary sur Mer, France**

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

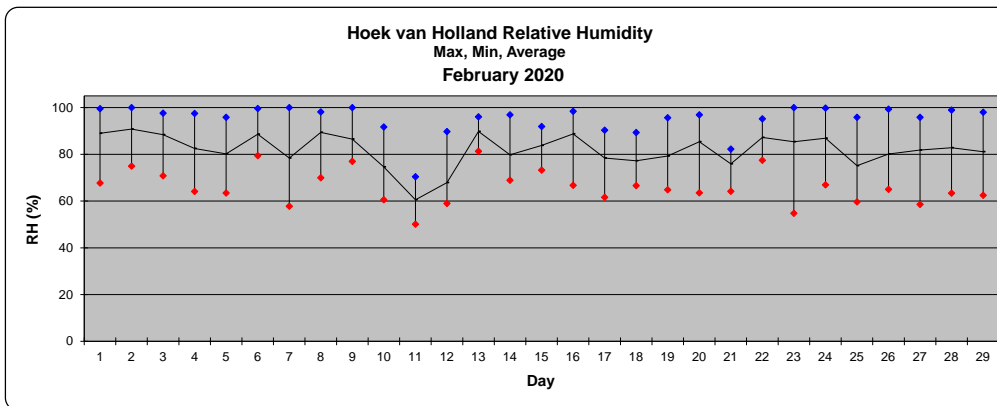
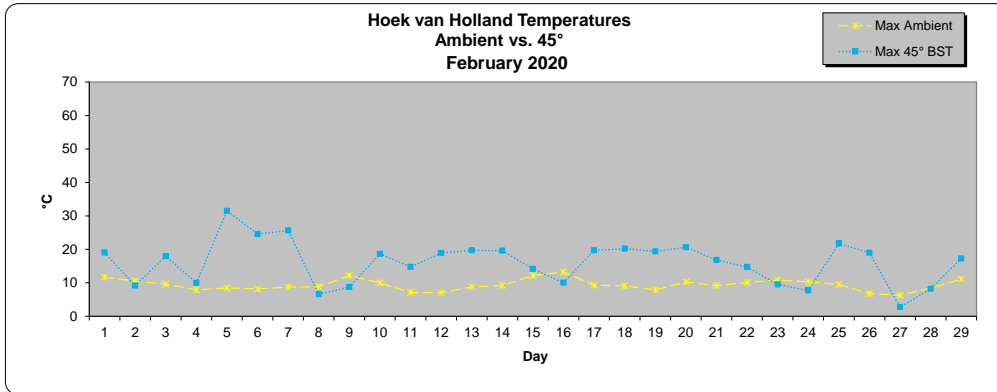
Solar Radiation Summary						
Month	Total Solar Radiation (MJ/m <sup>2</sup> )		Ultraviolet Solar Radiation (MJ/m <sup>2</sup> )			
February	Direct		295-385 nm		300-400 nm	
Day	0°	45°	0°	45°	0°	45°
1	6.6	10.8	*	*	0.33	0.38
2	9.1	17.3	*	*	0.46	0.60
3	9.2	17.1	*	*	0.42	0.55
4	11.4	23.2	*	*	0.49	0.73
5	11.9	24.4	*	*	0.51	0.74
6	8.9	15.1	*	*	0.43	0.54
7	11.6	23.0	*	*	0.51	0.74
8	9.5	15.5	*	*	0.46	0.55
9	11.0	20.6	*	*	0.52	0.71
10	9.3	15.1	*	*	0.13	0.15
11	8.3	12.6	*	*	0.01	0.01
12	12.7	23.7	*	*	0.01	0.01
13	2.7	2.3	*	*	0.01	0.01
14	13.0	24.6	*	*	0.59	0.83
15	11.9	20.7	*	*	0.56	0.76
16	3.2	2.8	*	*	0.21	0.18
17	1.2	1.0	*	*	0.09	0.08
18	13.4	23.9	*	*	0.61	0.85
19	13.7	24.7	*	*	0.63	0.88
20	13.9	24.7	*	*	0.64	0.87
21	13.4	22.7	*	*	0.64	0.83
22	13.5	23.3	*	*	0.65	0.87
23	14.5	25.3	*	*	0.67	0.91
24	14.7	25.5	*	*	0.69	0.92
25	12.1	18.7	*	*	0.60	0.70
26	13.3	22.2	*	*	0.64	0.82
27	4.6	4.9	*	*	0.29	0.26
28	14.9	25.8	*	*	0.73	0.97
29	2.8	2.6	*	*	0.18	0.16
<b>Monthly Total</b>	<b>296.4</b>	<b>514.2</b>	*	*	<b>12.69</b>	<b>16.59</b>
<b>YTD<sup>1</sup> Total</b>	<b>474.9</b>	<b>851.3</b>	*	*	<b>21.19</b>	<b>27.35</b>

<sup>1</sup> Year To Date Total Solar Radiation - (290-3000 nm) Ultraviolet Solar Radiation - (295-385 nm) or (300-400 nm).  
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
February	(° C)			45 °			(%)			(m/s)		360°/0°= N	(mm)
Day	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	Avg	Total
1	12	9	10	19	4	8	100	68	89	14.0	6.8	203°	0.3
2	11	6	9	9	3	5	100	75	91	14.0	5.5	200°	6.4
3	10	7	9	18	3	6	98	71	88	12.0	5.6	224°	4.1
4	8	6	7	10	0	3	98	64	83	15.7	7.9	285°	1.8
5	8	5	7	32	-2	6	96	63	80	5.4	2.3	283°	0.0
6	8	2	6	25	-5	3	100	79	89	5.6	2.1	247°	0.0
7	9	1	5	26	-6	5	100	58	78	7.3	2.5	103°	0.0
8	9	5	7	7	1	4	98	70	89	8.2	4.6	162°	0.5
9	12	7	9	9	3	6	100	77	87	23.0	11.5	171°	10.4
10	10	6	8	19	1	6	92	61	75	21.0	10.0	305°	2.3
11	7	6	7	15	2	4	70	50	61	22.1	12.0	337°	0.0
12	7	5	6	19	0	4	90	59	68	19.0	8.0	303°	0.0
13	9	4	6	20	-1	3	96	81	90	14.1	5.2	280°	13.2
14	9	6	7	20	2	6	97	69	80	11.5	5.0	311°	0.0
15	12	8	10	14	3	7	92	73	84	18.7	8.4	190°	0.0
16	13	8	11	10	4	8	98	67	89	18.6	10.7	178°	15.2
17	9	6	8	20	2	6	90	62	78	17.1	7.8	90°	3.3
18	9	7	8	20	3	6	89	67	77	15.5	7.5	46°	0.8
19	8	6	7	19	1	5	96	65	79	14.6	7.3	12°	1.8
20	10	6	8	21	1	5	97	64	85	17.0	8.3	240°	7.1
21	9	6	8	17	1	5	82	64	76	15.4	8.0	37°	0.0
22	10	8	9	15	3	6	95	77	87	19.1	9.1	132°	0.0
23	11	7	9	10	2	5	100	55	85	19.4	8.2	347°	16.8
24	10	5	8	8	1	4	100	67	87	18.4	7.2	101°	6.1
25	10	2	7	22	-2	6	96	60	75	14.2	6.6	78°	6.1
26	7	1	5	19	-4	3	99	65	80	12.4	6.7	199°	12.5
27	6	3	4	3	0	1	96	59	82	13.0	4.9	284°	7.1
28	8	4	6	8	-1	2	99	63	83	15.6	6.6	274°	11.7
29	11	5	8	17	1	6	98	62	81	16.4	8.8	180°	0.8
<b>Monthly Avg.</b>	9	5	8	16	1	5	95	66	82	15.1	7.1	200°	
<b>Monthly Total</b>													128.0
<b>YTD<sup>1</sup> Ava.</b>	9	5	7	14	1	4	96	73	86	13.3	6.1	170°	
<b>YTD<sup>1</sup> Total</b>													165.3

<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

February 2020

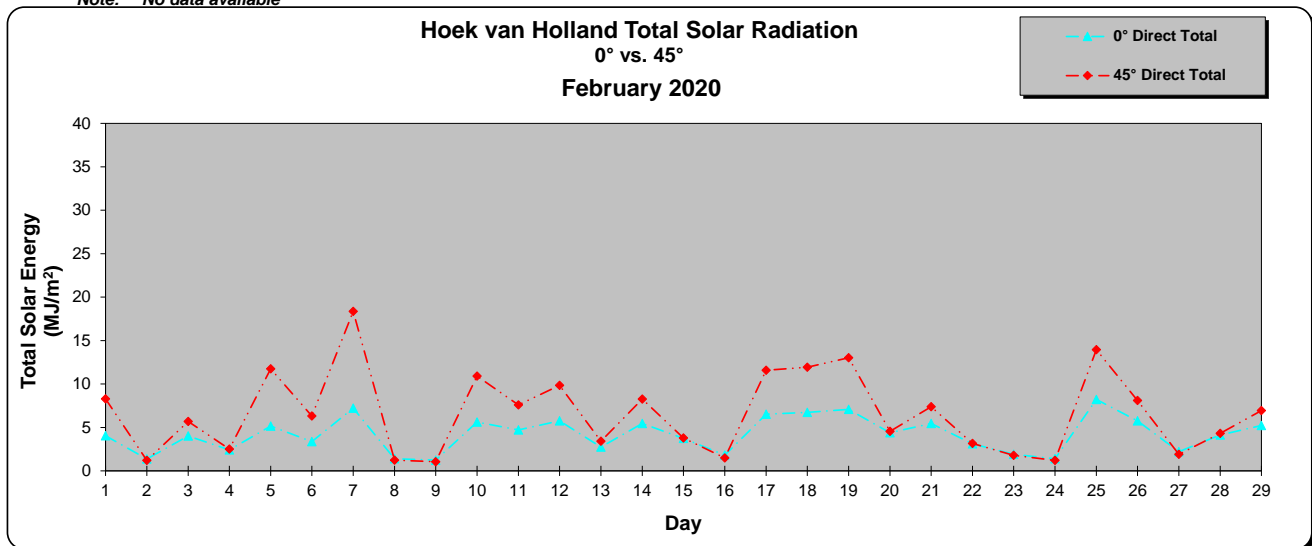
Hoek van Holland, The Netherlands

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

AWSG		Solar Radiation Summary	
Month	Total Solar Radiation (MJ/m <sup>2</sup> )		
February	Direct		
Day	0°	45°	
1	4.0	8.3	
2	1.4	1.2	
3	4.0	5.7	
4	2.4	2.5	
5	5.2	11.7	
6	3.4	6.3	
7	7.2	18.4	
8	1.4	1.2	
9	1.2	1.1	
10	5.6	10.9	
11	4.7	7.6	
12	5.8	9.8	
13	2.7	3.4	
14	5.4	8.3	
15	3.7	3.8	
16	1.8	1.5	
17	6.5	11.6	
18	6.7	11.9	
19	7.1	13.0	
20	4.4	4.6	
21	5.4	7.4	
22	3.1	3.2	
23	1.9	1.8	
24	1.4	1.2	
25	8.2	14.0	
26	5.8	8.1	
27	2.2	1.9	
28	4.1	4.3	
29	5.2	6.9	
<b>Monthly Total</b>	122.1	191.5	
<b>YTD<sup>†</sup> Total</b>	191.1	308.4	

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

Note: \* No data available







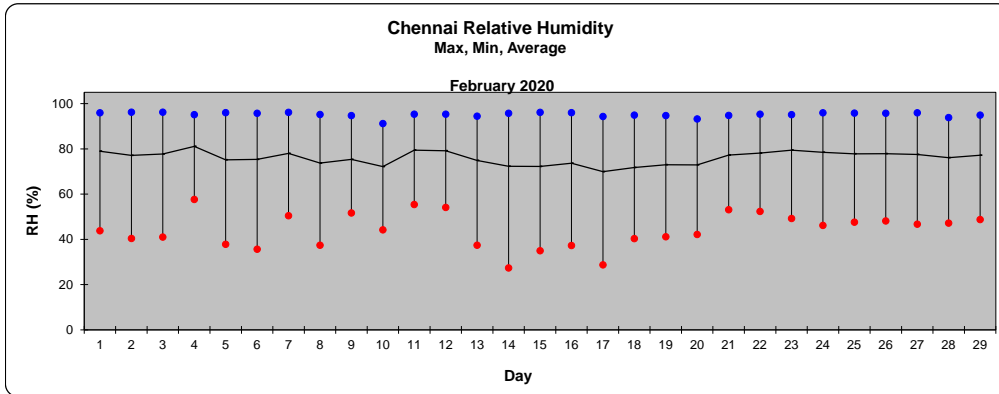
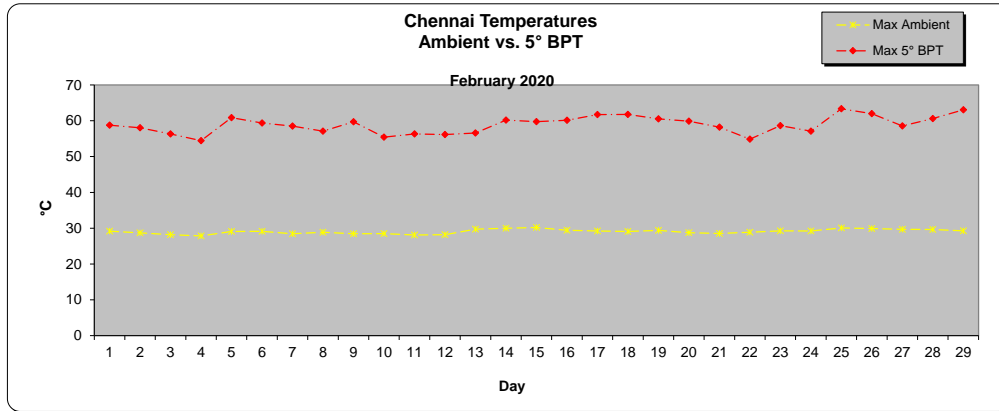
**Weather Summary  
February 2020  
Chennai, India**

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°/70°= N	(mm)
February	°C			5°			%			(m/s)		360°/70°= N	(mm)
Day	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	Avg	Total
1	29	18	22	59	19	30	96	44	79	3.3	0.6	49°	0.0
2	29	18	22	58	19	29	96	40	77	4.7	0.7	37°	0.0
3	28	17	22	56	19	28	96	41	78	4.9	0.8	358°	0.0
4	28	18	22	54	19	27	95	58	81	3.6	0.8	1°	0.0
5	29	16	22	61	17	30	96	38	75	3.9	0.7	11°	0.0
6	29	15	21	59	16	29	96	36	75	5.7	0.6	47°	0.0
7	28	16	22	59	17	29	96	50	78	6.7	0.6	90°	0.0
8	29	17	22	57	19	30	95	37	74	4.9	0.6	91°	0.0
9	28	18	23	60	19	30	95	52	75	5.1	0.8	54°	0.0
10	28	19	23	55	20	29	91	44	72	6.3	0.9	28°	0.0
11	28	17	22	56	18	27	95	55	79	7.0	1.0	4°	0.0
12	28	18	23	56	20	29	95	54	79	5.2	1.0	8°	0.0
13	30	18	22	57	19	30	94	37	75	6.2	1.0	349°	0.0
14	30	17	22	60	18	30	96	27	72	5.7	0.7	347°	0.0
15	30	15	21	60	16	29	96	35	72	5.4	0.7	4°	0.0
16	29	14	21	60	15	29	96	37	74	3.8	0.7	17°	0.0
17	29	16	21	62	17	29	94	29	70	4.7	0.8	360°	0.0
18	29	15	21	62	16	29	95	40	72	3.8	0.7	10°	0.0
19	29	16	21	61	17	29	95	41	73	5.3	0.8	17°	0.0
20	29	16	22	60	17	29	93	42	73	4.1	0.8	5°	0.0
21	29	16	22	58	17	29	95	53	77	6.7	1.0	14°	0.0
22	29	19	23	55	20	29	95	52	78	6.7	1.1	10°	0.0
23	29	19	23	59	20	29	95	49	79	7.1	0.9	15°	0.0
24	29	18	23	57	19	29	96	46	79	3.8	0.8	19°	0.0
25	30	18	23	63	20	31	96	48	78	5.7	0.7	59°	0.0
26	30	19	23	62	20	31	96	48	78	4.1	0.7	57°	0.0
27	30	18	23	59	19	30	96	47	78	4.5	0.8	19°	0.0
28	30	19	23	61	20	31	94	47	76	5.3	0.8	32°	0.0
29	29	19	23	63	20	30	95	49	77	6.6	0.7	18°	0.0
Monthly Avg.	29	17	22	59	18	29	95	44	76	5.2	0.8	73°	
Monthly Total													0.0
YTD <sup>1</sup> Avc.	28	17	22	57	19	29	96	47	78	4.7	0.8	123°	
YTD <sup>1</sup> Total													14.2

<sup>1</sup> Year To Date

Note: \* Data Unavailable



**Solar Radiation Summary  
February 2020  
Chennai, India**

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

AWSG Solar Radiation Summary			
Month	Total Solar Radiation (MJ/m <sup>2</sup> )	Ultraviolet Solar Radiation (MJ/m <sup>2</sup> )	
February	Direct	295-385 nm	300-400 nm
Day	5°	5°	
1	20.4	0.87	0.97
2	22.3	0.93	1.04
3	18.7	0.83	0.92
4	14.7	0.67	0.75
5	23.3	0.98	1.10
6	24.7	1.03	1.15
7	19.0	0.85	0.94
8	22.5	0.93	1.04
9	18.1	0.78	0.87
10	19.06	0.85	0.95
11	15.0	0.69	0.77
12	16.9	0.76	0.85
13	23.3	0.95	1.06
14	23.4	0.95	1.06
15	24.0	0.97	1.08
16	25.0	1.03	1.14
17	23.1	0.98	1.09
18	24.0	0.99	1.10
19	22.9	0.96	1.07
20	22.9	0.96	1.07
21	18.6	0.83	0.92
22	19.4	0.85	0.95
23	15.4	0.71	0.80
24	18.5	0.81	0.90
25	21.8	0.96	1.07
26	21.0	0.88	0.98
27	20.7	0.85	0.94
28	21.3	0.88	0.98
29	19.7	0.84	0.94
<b>Monthly Total</b>	<b>599.7</b>	<b>25.54</b>	<b>28.51</b>
<b>YTD<sup>†</sup> Total</b>	<b>1176.7</b>	<b>50.51</b>	<b>56.38</b>

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

Note:

