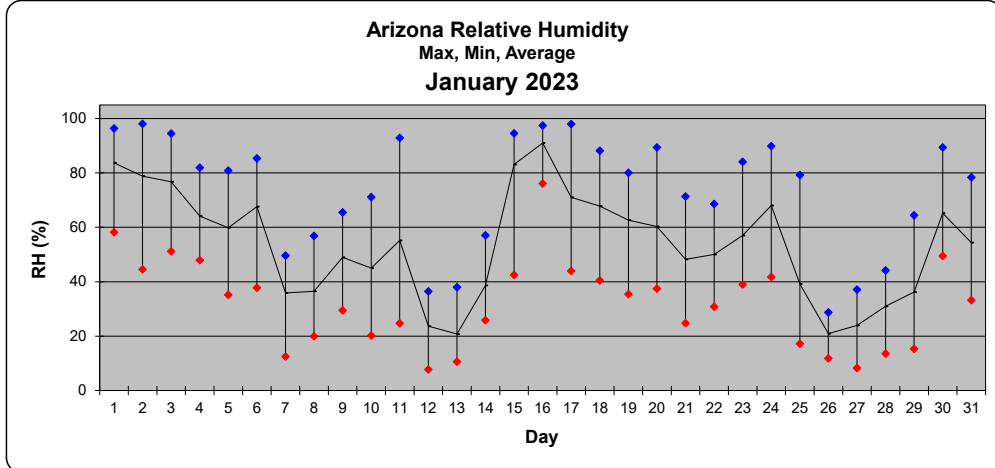
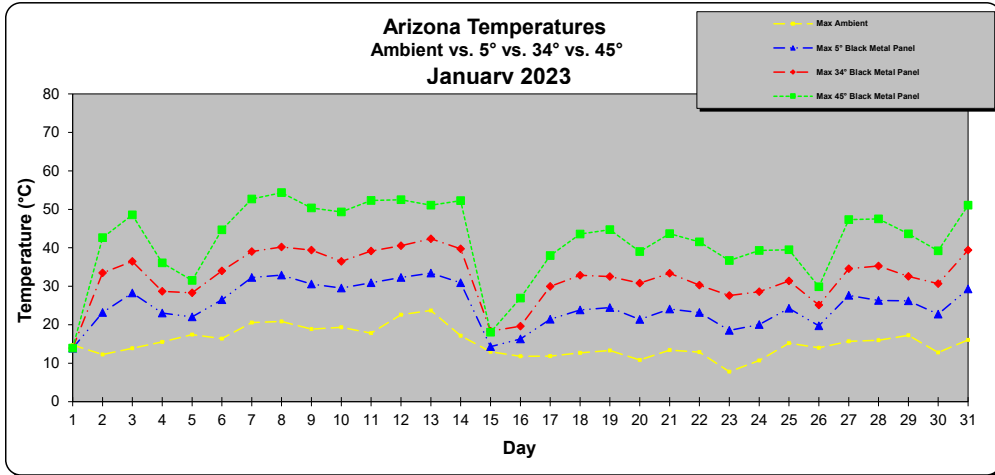


Latitude 33° 54' North, Longitude 112° 08' West, Elevation 610 (m)

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°/10°=	(mm)
Day	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Avg.	N	Total
1	15	5	10	14	5	10	14	4	10	14	5	10	96	58	84	13.8	1.9	6°	20.1
2	12	6	8	23	3	8	33	3	9	43	4	10	98	45	79	6.1	1.5	56°	2.5
3	14	7	9	28	5	9	36	5	10	49	5	12	95	51	77	5.0	1.1	27°	2.0
4	16	7	11	23	6	11	29	6	12	36	6	13	82	48	64	8.4	2.8	264°	0.0
5	17	9	12	22	7	12	28	7	13	32	7	13	81	35	60	8.3	2.1	279°	0.0
6	16	7	11	26	5	10	34	4	12	45	5	14	85	38	68	7.2	1.5	267°	0.0
7	21	9	13	32	6	13	39	6	14	53	7	17	50	13	36	11.0	3.1	265°	0.0
8	21	8	14	33	6	14	40	6	16	54	6	19	57	20	36	8.0	2.0	258°	0.0
9	19	7	13	31	5	13	39	4	14	50	5	16	66	29	49	6.3	1.6	283°	0.0
10	19	9	13	30	7	13	36	7	15	49	7	16	71	20	45	7.1	1.6	287°	0.0
11	18	7	12	31	4	12	39	3	13	52	4	16	93	25	55	8.2	1.5	265°	0.0
12	23	10	15	32	8	16	41	8	17	52	8	20	37	8	24	12.1	3.4	276°	0.0
13	24	13	17	33	11	17	42	11	18	51	11	20	38	11	21	10.0	3.0	275°	0.0
14	17	9	13	31	8	13	40	8	14	52	8	14	57	26	39	5.5	1.5	271°	0.0
15	13	8	10	14	8	10	18	8	11	18	8	11	95	43	83	5.1	1.2	62°	3.8
16	12	8	10	16	8	10	20	8	10	27	8	10	98	76	91	8.5	1.9	28°	22.9
17	12	6	9	21	3	10	30	2	11	38	3	13	98	44	71	23.8	1.8	84°	4.8
18	13	5	8	24	1	9	33	1	10	44	2	14	88	41	68	4.4	1.0	19°	0.0
19	13	4	8	24	3	9	33	2	10	45	3	13	80	35	63	6.8	1.9	265°	0.0
20	11	3	7	21	1	8	31	0	9	39	1	11	89	37	60	7.2	1.5	58°	0.0
21	13	3	7	24	0	8	33	0	9	44	1	12	71	25	48	10.4	2.6	253°	0.0
22	13	2	7	23	0	8	30	0	9	42	0	13	69	31	50	10.1	1.8	302°	0.0
23	8	1	4	19	-1	5	28	-1	6	37	-1	7	84	39	57	10.9	2.7	290°	0.0
24	11	0	4	20	-4	6	29	-4	7	39	-3	11	90	42	68	5.5	1.4	302°	0.0
25	15	1	8	24	-2	9	31	-2	10	39	-1	13	79	17	39	12.2	2.6	270°	0.0
26	14	6	9	20	4	10	25	4	11	30	4	13	29	12	21	15.0	5.3	259°	0.0
27	16	4	9	28	2	10	35	2	12	47	2	15	37	8	24	11.5	2.6	276°	0.0
28	16	3	9	26	0	10	35	-1	11	48	0	15	44	14	31	6.2	1.9	291°	0.0
29	17	3	10	26	1	11	33	0	12	44	1	15	64	15	36	7.0	1.9	346°	0.0
30	13	7	10	23	5	10	31	5	11	39	6	11	89	49	65	7.3	1.4	11°	1.0
31	16	7	11	29	6	12	39	6	14	51	6	15	78	33	54	13.3	2.5	260°	0.3
Monthly Avg.	15	6	10	25	4	10	32	4	12	42	4	14	74	32	54	9.1	2.1	208°	
Monthly Total																			57.4
YTD † Avg.	15	6	10	25	4	10	32	4	12	42	4	14	74	32	54	9.1	2.1	208°	
YTD † Total																			57.4

† Year To Date



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

**Miami, Florida**

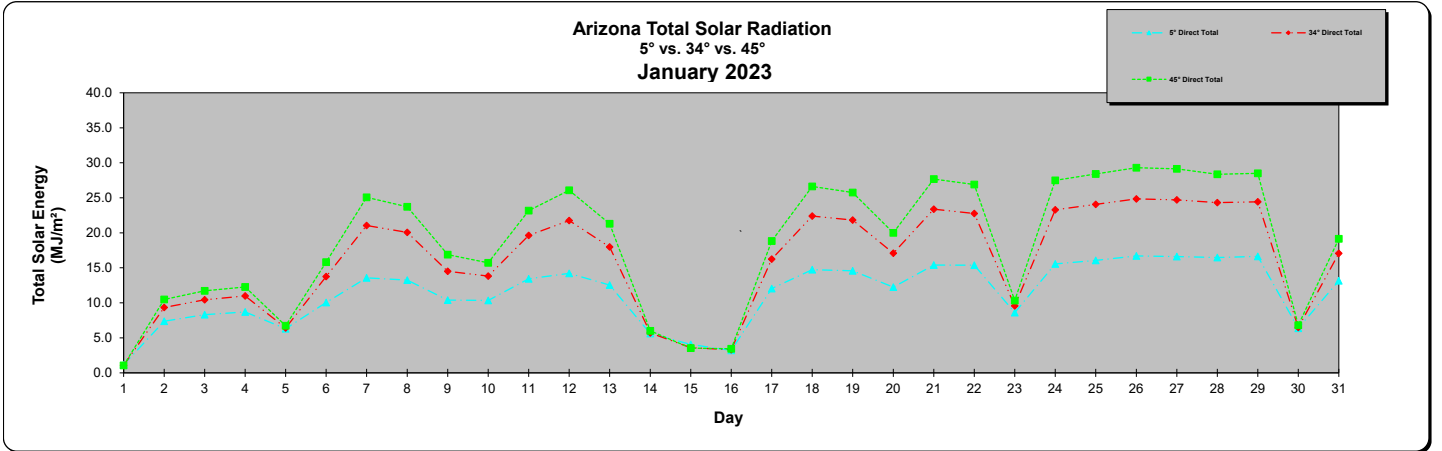
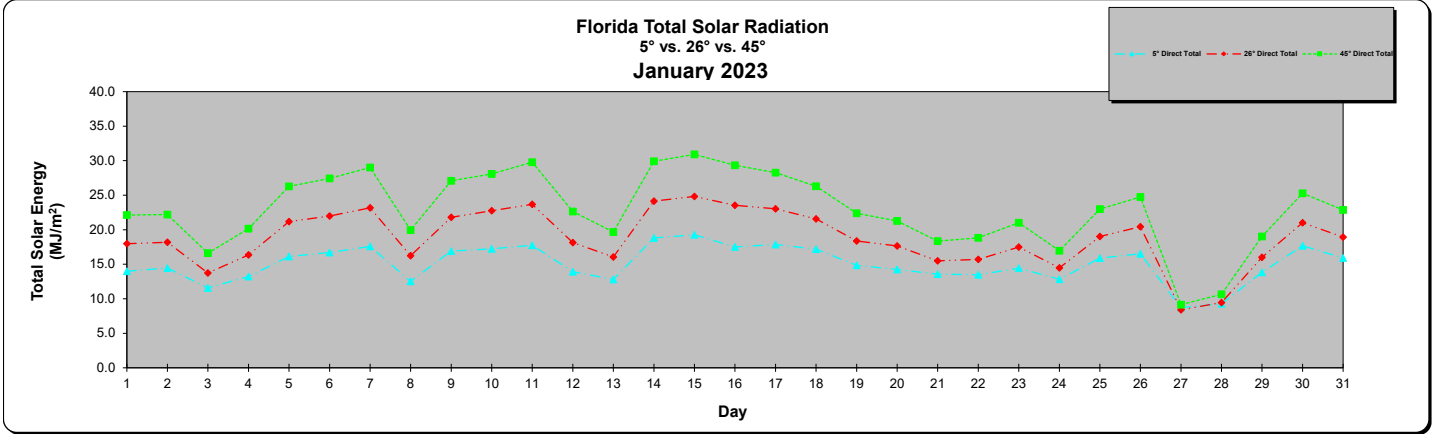
Latitude 33° 54' North, Longitude 112° 08' West, Elevation 610 (m)

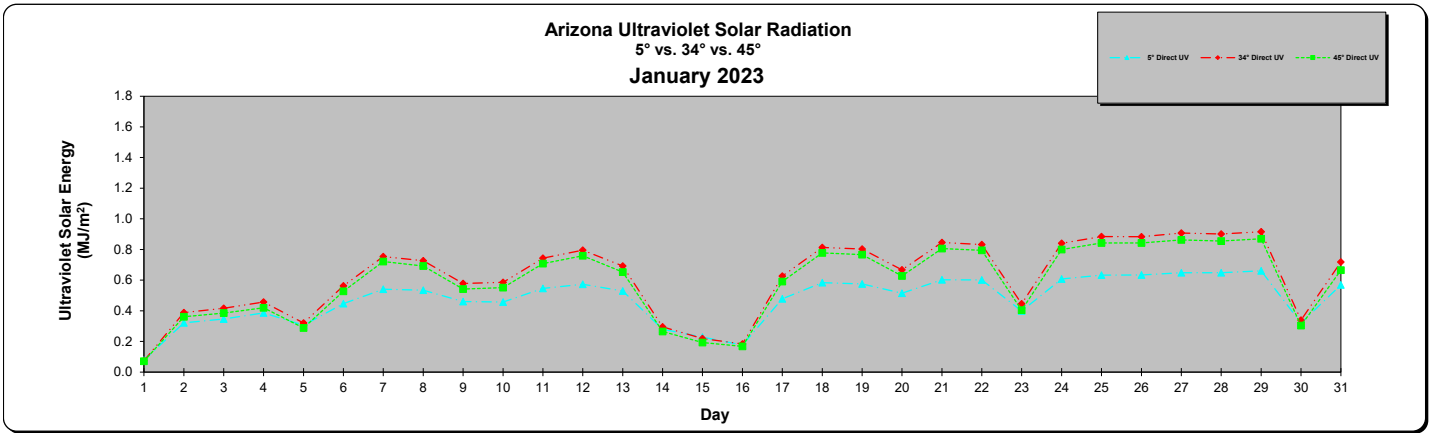
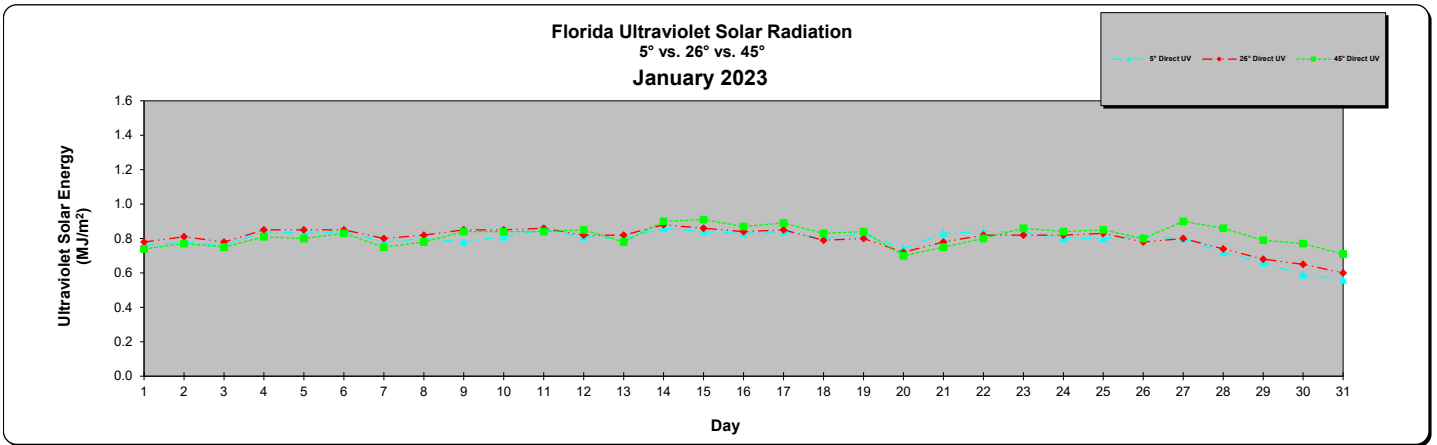
**Phoenix, Arizona**

AWSG	Solar Radiation Summary												Solar Radiation Summary												EMMAQUA™ (MJ/m <sup>2</sup> )	
	Total Solar Radiation (MJ/m <sup>2</sup> )						Ultraviolet Solar Radiation (MJ/m <sup>2</sup> )						Total Solar Radiation (MJ/m <sup>2</sup> )						Ultraviolet Solar Radiation (MJ/m <sup>2</sup> )							
	Direct			Underglass			Direct			Underglass			Direct			Underglass			Direct			Underglass				
	5°	26°	45°	5°	26°	45°	5°	26°	45°	5°	26°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°		
Month																										
January																										
Day	5°	26°	45°	5°	26°	45°	5°	26°	45°	5°	26°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°	Total	UV
1	14.0	18.0	22.1	11.8	15.8	18.0	0.76	0.78	0.74	0.49	0.51	0.51	1.2	1.1	1.1	1.0	0.9	0.9	0.08	0.07	0.07	0.06	0.05	0.04	0	0.00
2	14.4	18.2	22.2	12.3	15.9	17.9	0.78	0.81	0.77	0.50	0.53	0.53	7.4	9.3	10.5	5.9	7.8	8.7	0.32	0.39	0.36	0.23	0.25	0.22	0	0.00
3	11.6	13.7	16.6	9.6	12.0	13.3	0.76	0.78	0.75	0.49	0.51	0.52	8.3	10.4	11.7	6.5	8.8	9.7	0.35	0.42	0.39	0.25	0.26	0.24	0	0.00
4	13.2	16.4	20.2	11.0	14.3	16.1	0.84	0.85	0.81	0.54	0.55	0.56	8.7	11.0	12.3	6.8	9.1	10.2	0.39	0.46	0.42	0.28	0.29	0.26	0	0.00
5	16.1	21.2	26.3	14.1	18.7	21.3	0.83	0.85	0.80	0.53	0.55	0.55	6.3	6.4	6.7	5.2	5.4	5.6	0.31	0.32	0.29	0.22	0.20	0.17	0	0.00
6	16.7	22.0	27.4	14.3	19.3	22.2	0.84	0.85	0.83	0.54	0.55	0.57	10.1	13.8	15.8	7.8	11.8	13.2	0.45	0.56	0.53	0.32	0.35	0.33	0	0.00
7	17.6	23.2	29.0	15.0	20.5	23.5	0.78	0.80	0.75	0.50	0.52	0.52	13.6	21.1	25.1	10.6	18.1	20.8	0.54	0.75	0.72	0.38	0.47	0.45	167	3.19
8	12.5	16.2	20.0	10.7	14.3	16.2	0.80	0.82	0.78	0.51	0.53	0.54	13.3	20.1	23.7	10.3	17.0	19.7	0.54	0.73	0.69	0.38	0.45	0.43	0	0.00
9	16.9	21.8	27.1	14.5	19.4	22.0	0.78	0.85	0.84	0.50	0.55	0.58	10.4	14.5	16.9	8.2	12.4	13.9	0.46	0.58	0.54	0.33	0.36	0.33	71	1.35
10	17.2	22.7	28.1	14.8	20.0	22.8	0.81	0.85	0.84	0.52	0.55	0.58	10.3	13.8	15.7	8.4	11.9	13.3	0.46	0.59	0.55	0.33	0.37	0.34	0	0.00
11	17.7	23.7	29.8	15.5	21.2	24.2	0.85	0.86	0.84	0.54	0.56	0.58	13.4	19.6	23.2	10.3	17.0	19.5	0.55	0.74	0.71	0.39	0.47	0.44	119	2.68
12	13.9	18.1	22.6	11.8	15.8	18.1	0.81	0.82	0.85	0.52	0.53	0.59	14.2	21.8	26.1	11.1	18.9	21.7	0.57	0.80	0.76	0.41	0.50	0.47	109	2.43
13	12.8	16.0	19.7	11.0	14.0	15.7	0.80	0.82	0.78	0.51	0.53	0.54	12.5	18.0	21.3	9.9	15.5	17.7	0.53	0.69	0.65	0.37	0.43	0.40	60	1.32
14	18.8	24.1	29.9	16.0	21.3	24.2	0.86	0.88	0.90	0.56	0.56	0.62	5.6	5.7	6.0	4.7	4.8	5.0	0.28	0.30	0.27	0.20	0.18	0.16	0	0.00
15	19.3	24.8	30.9	16.3	22.0	25.1	0.84	0.86	0.91	0.54	0.56	0.63	4.1	3.6	3.5	3.4	3.0	2.9	0.23	0.22	0.19	0.17	0.14	0.11	0	0.00
16	17.5	23.5	29.3	15.5	20.7	23.5	0.83	0.84	0.87	0.53	0.55	0.60	3.2	3.3	3.4	2.6	2.8	2.8	0.18	0.18	0.17	0.13	0.12	0.10	0	0.00
17	17.8	23.0	28.3	15.5	20.3	22.9	0.84	0.85	0.89	0.54	0.55	0.61	12.0	16.3	18.8	8.9	13.8	15.6	0.48	0.63	0.59	0.35	0.40	0.37	0	0.00
18	17.2	21.6	26.3	15.1	19.0	21.3	0.80	0.79	0.83	0.51	0.51	0.57	14.7	22.4	26.6	11.0	19.0	22.1	0.58	0.81	0.78	0.42	0.52	0.49	133	2.89
19	14.9	18.4	22.4	12.5	16.1	17.9	0.83	0.80	0.84	0.53	0.52	0.58	14.6	21.8	25.8	11.4	18.7	21.5	0.58	0.80	0.77	0.42	0.51	0.48	162	3.31
20	14.2	17.6	21.3	12.8	15.6	17.1	0.74	0.72	0.70	0.47	0.47	0.48	12.2	17.1	20.0	9.1	14.5	16.5	0.52	0.67	0.63	0.37	0.42	0.39	100	2.00
21	13.6	15.5	18.3	11.4	13.5	14.7	0.83	0.78	0.75	0.53	0.51	0.52	15.4	23.4	27.7	11.8	19.8	23.0	0.60	0.85	0.81	0.44	0.53	0.50	169	3.60
22	13.5	15.7	18.8	11.0	13.6	15.0	0.84	0.82	0.80	0.54	0.53	0.55	15.4	22.8	26.9	11.9	19.3	22.3	0.60	0.83	0.80	0.44	0.53	0.50	141	3.18
23	14.4	17.5	21.0	12.1	15.2	16.7	0.84	0.82	0.86	0.54	0.53	0.59	8.6	9.6	10.3	7.0	8.0	8.5	0.40	0.45	0.40	0.29	0.28	0.25	0	0.00
24	12.8	14.5	17.0	10.8	12.5	13.4	0.80	0.82	0.84	0.51	0.53	0.58	15.6	23.3	27.5	11.7	19.7	22.8	0.61	0.84	0.80	0.44	0.53	0.51	166	3.44
25	15.9	19.0	23.0	13.2	16.4	18.1	0.80	0.83	0.85	0.51	0.54	0.59	16.1	24.1	28.4	12.3	20.4	23.6	0.63	0.89	0.84	0.46	0.56	0.53	184	3.90
26	16.5	20.4	24.7	14.2	17.8	19.6	0.81	0.78	0.80	0.52	0.51	0.55	16.7	24.9	29.3	12.7	21.1	24.2	0.63	0.88	0.84	0.46	0.56	0.53	0	0.00
27	8.7	8.4	9.1	7.3	7.1	7.0	0.80	0.80	0.90	0.51	0.52	0.63	16.6	24.7	29.2	12.7	20.9	24.1	0.65	0.91	0.86	0.47	0.57	0.54	198	4.13
28	9.3	9.5	10.6	7.6	7.9	8.2	0.72	0.74	0.86	0.46	0.48	0.60	16.5	24.3	28.4	12.9	20.6	23.7	0.65	0.90	0.86	0.47	0.56	0.53	186	3.91
29	13.8	16.0	19.0	11.2	13.5	14.8	0.66	0.68	0.79	0.42	0.44	0.55	16.6	24.4	28.5	13.1	20.7	23.9	0.66	0.92	0.87	0.48	0.57	0.54	186	4.04
30	17.7	21.0	25.3	14.3	17.9	19.6	0.59	0.65	0.77	0.38	0.42	0.54	6.4	6.5	6.8	5.2	5.4	5.6	0.32	0.34	0.30	0.23	0.21	0.18	0	0.00
31	15.9	18.9	22.9	13.0	16.3	17.9	0.56	0.60	0.71	0.36	0.39	0.50	13.2	17.1	19.2	10.4	14.2	16.0	0.57	0.72	0.67	0.41	0.45	0.41	0	0.00
Monthly Total	466.6	580.8	709.2	396.3	508.2	568.2	24.43	24.80	25.25	15.65	16.09	17.46	353.1	495.9	576.3	274.9	421.0	478.9	14.69	19.22	18.12	10.59	12.06	11.21	2151	45.37
YTD <sup>†</sup> Total	466.6	580.8	709.2	396.3	508.2	568.2	24.43	24.80	25.25	15.65	16.09	17.46	353.1	495.9	576.3	274.9	421.0	478.9	14.69	19.22	18.12	10.59	12.06	11.21	2151.26	45.37

<sup>†</sup> Year To Date

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

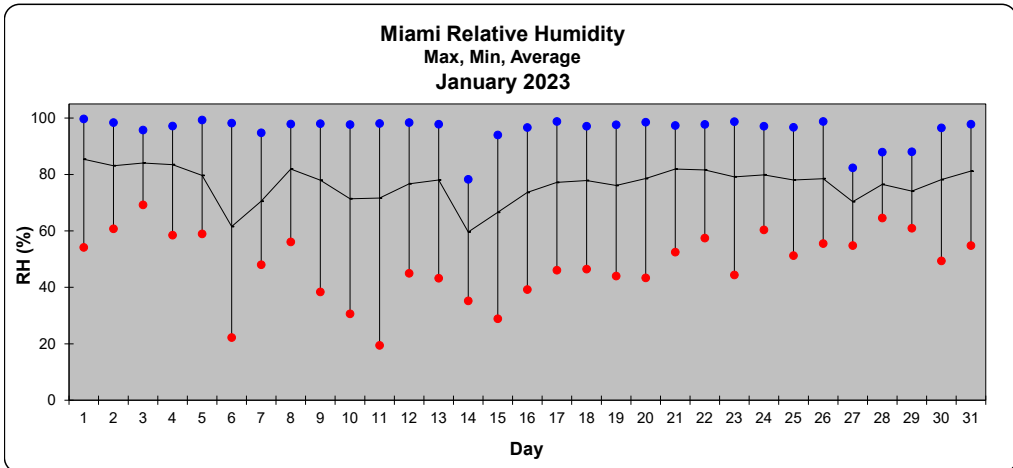
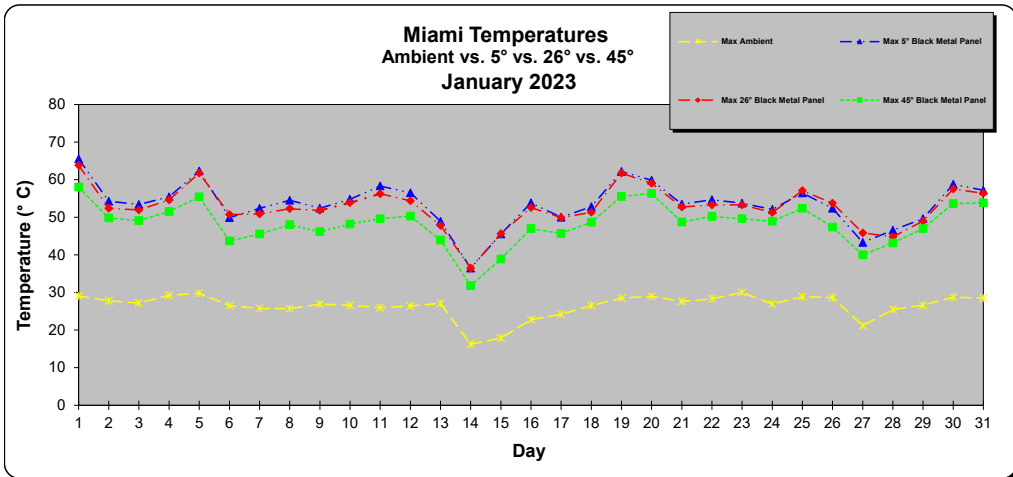




Latitude 25° 34' North, Longitude 80° 28' West, Elevation 2 (m)

AWSG	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° = N	(mm)
	Month	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Avg.	Avg.
January	° C			5 °			26 °			45 °			%			m/sec		360° = N	(mm)
Day	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Avg.	Avg.	Total
1	29	17	22	66	15	28	64	15	27	58	16	26	100	54	85	3.5	2.0	112°	0.0
2	28	17	22	54	15	27	52	15	26	50	15	25	98	61	83	4.6	3.2	72°	0.0
3	27	20	24	53	18	26	52	18	26	49	18	25	96	69	84	5.3	4.7	102°	0.0
4	29	19	24	55	17	28	55	17	27	52	17	26	97	59	84	4.7	4.1	119°	0.0
5	30	17	23	62	15	29	62	15	28	55	15	26	99	59	80	3.5	2.4	159°	0.0
6	27	15	20	50	12	25	51	12	25	44	12	23	98	22	62	4.8	3.0	262°	0.0
7	26	13	19	52	11	24	51	11	24	46	11	22	95	48	71	4.4	2.7	148°	0.0
8	26	12	19	55	10	23	52	10	22	48	10	21	98	56	82	3.8	1.9	92°	0.0
9	27	14	19	52	12	24	52	12	24	46	12	22	98	38	78	4.0	1.9	227°	0.0
10	27	12	19	55	9	24	54	8	24	48	8	22	98	31	71	3.9	2.1	260°	0.0
11	26	8	16	58	5	23	56	5	22	50	5	20	98	19	72	3.4	2.1	176°	0.0
12	26	11	18	57	9	23	54	8	22	50	8	20	98	45	77	4.3	1.9	116°	0.0
13	27	12	18	49	10	21	48	10	21	44	10	19	98	43	78	8.7	3.9	224°	0.3
14	16	8	12	36	6	16	36	6	16	32	6	15	78	35	60	5.5	4.9	311°	0.0
15	18	4	10	46	0	15	46	0	15	39	1	13	94	29	67	4.5	2.2	259°	0.0
16	23	4	13	54	1	19	53	1	19	47	1	16	97	39	74	3.8	1.3	126°	0.0
17	24	8	16	50	6	22	50	6	21	46	6	19	99	46	77	4.5	1.9	100°	0.0
18	27	10	18	53	8	23	51	8	23	49	8	21	97	46	78	5.2	2.0	87°	0.0
19	28	13	20	62	10	25	62	10	25	56	10	23	98	44	76	4.0	2.8	122°	0.0
20	29	15	21	60	13	26	59	13	26	56	13	25	99	43	79	3.5	1.7	134°	0.0
21	28	16	21	54	15	25	53	15	25	49	15	24	97	52	82	3.9	2.0	103°	0.0
22	28	17	23	55	15	25	53	15	25	50	15	24	98	57	82	5.4	4.6	139°	0.0
23	30	18	23	54	16	27	53	16	26	50	16	25	99	44	79	6.0	3.2	226°	0.0
24	27	16	22	52	14	25	51	14	24	49	14	24	97	60	80	6.2	5.1	123°	0.0
25	29	19	24	56	17	28	57	17	28	52	17	27	97	51	78	5.5	4.5	132°	0.0
26	29	18	23	52	17	27	54	17	28	47	17	26	99	56	79	4.6	2.8	233°	0.0
27	21	16	18	43	16	20	46	16	20	40	16	20	82	55	70	4.6	3.6	262°	0.0
28	25	16	21	47	15	23	45	15	23	43	15	23	88	65	76	6.4	5.0	128°	0.0
29	27	22	24	50	20	27	49	20	27	47	20	26	88	61	74	5.5	5.1	85°	0.0
30	29	18	23	59	17	28	58	16	28	54	16	27	97	49	78	4.9	3.9	83°	0.0
31	29	16	22	57	14	26	56	14	26	54	14	25	98	55	81	5.0	3.4	88°	0.0
Monthly Avg.	26	14	20	53	12	24	53	12	24	48	12	23	96	48	77	4.8	3.1	155°	
Monthly Total																			0.3
YTD <sup>†</sup> Avg.	26	14	20	53	12	24	53	12	24	48	12	23	96	48	77	4.8	3.1	155°	
YTD <sup>†</sup> Total																			0.3

<sup>†</sup> Year To Date

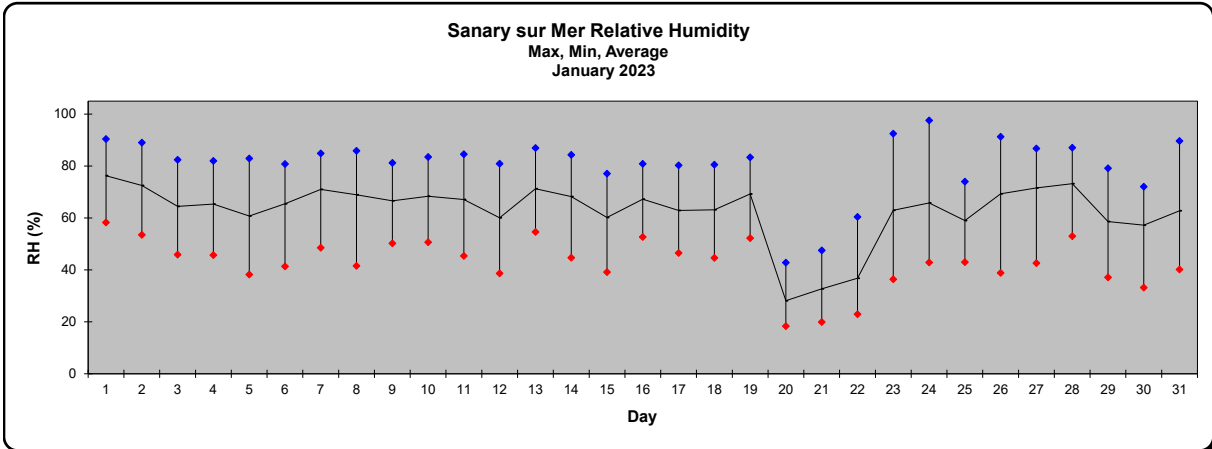
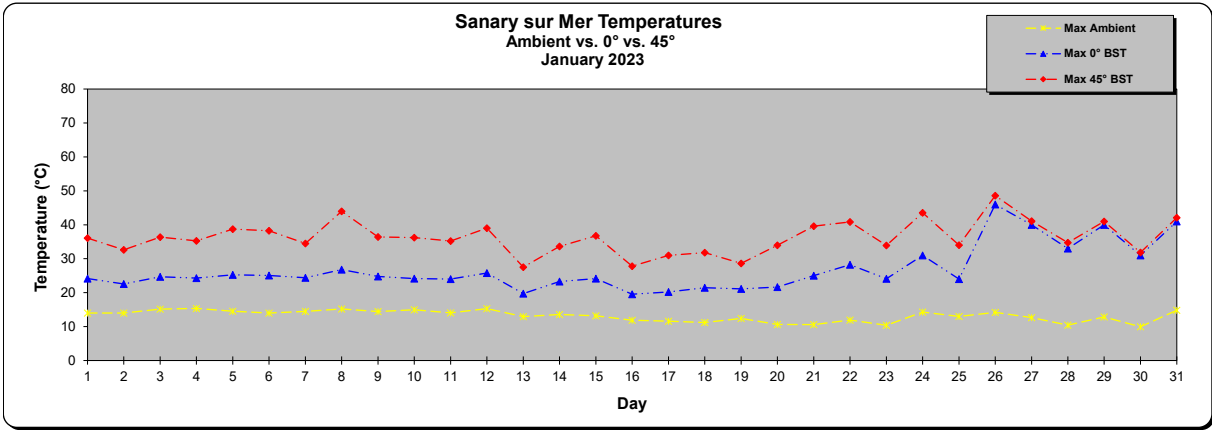


Latitude 43° 08' North, Longitude 05° 49' East, Elevation 110 (m)

Month	Temperature Summary															Climate Summary													
	Ambient Temperature (°C)			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 (360°/0°=N)	Rainfall (mm)				
January	0°			45°			0°			45°			0°			45°			Max	Min	Avg	Max	Avg	360°/0°=N	Total				
Day	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	Total					
1	14	6	10	24	5	11	36	4	13	23	4	10	34	5	13	24	4	10	35	4	12	90	58	76	14.3	2.5	109°	0.1	
2	14	6	10	23	5	11	33	4	12	21	4	10	32	5	13	23	4	10	32	4	12	89	54	73	12.9	2.4	115°	1.5	
3	15	6	11	25	5	11	36	4	13	23	4	11	34	5	14	25	4	11	36	5	13	82	46	64	16.3	2.6	221°	0.0	
4	15	7	11	24	5	11	35	5	13	23	5	11	33	6	13	25	5	11	34	5	13	82	46	65	16.3	2.8	223°	0.6	
5	15	6	10	25	4	11	39	4	14	24	4	10	36	5	13	25	4	10	38	4	13	83	38	61	15.3	2.9	169°	0.1	
6	14	6	9	25	4	10	38	4	13	24	4	10	37	4	13	25	3	10	38	4	13	81	41	65	15.2	2.8	102°	0.0	
7	14	6	10	24	5	11	34	4	13	23	4	10	33	5	13	24	4	10	36	5	13	85	49	71	12.7	2.4	110°	0.0	
8	15	7	10	27	5	11	44	4	14	31	4	11	42	5	14	28	4	11	41	5	14	86	42	69	15.5	2.5	141°	4.4	
9	14	7	10	25	5	11	36	4	13	23	4	10	35	5	13	25	4	10	38	5	14	81	50	67	11.8	2.3	102°	0.0	
10	15	7	10	24	4	11	36	4	13	23	4	11	35	5	13	24	3	11	38	5	14	84	51	68	14.2	2.4	125°	0.8	
11	14	6	10	24	4	11	35	4	13	22	4	10	33	5	13	24	3	10	35	4	13	85	45	67	18.6	2.9	156°	0.2	
12	15	5	10	26	3	10	39	3	13	24	3	10	37	4	13	26	2	10	41	2	13	81	39	60	14.2	2.2	214°	0.0	
13	13	6	9	20	4	9	28	3	11	18	3	9	26	4	11	20	3	9	28	3	10	87	55	71	14.5	2.4	119°	2.0	
14	14	6	9	23	3	10	34	3	12	22	3	9	32	4	12	24	2	9	35	3	12	84	45	68	16.7	2.4	253°	0.1	
15	13	5	9	24	2	9	37	2	11	22	1	9	35	2	11	25	1	8	38	2	11	77	39	60	16.9	2.9	132°	1.0	
16	12	5	8	20	3	9	28	2	10	19	2	8	27	3	10	20	2	8	28	3	10	81	53	67	18.5	3.7	123°	4.6	
17	12	4	8	20	2	8	31	2	10	19	2	8	29	2	11	21	1	8	30	2	10	80	47	63	16.5	2.9	181°	1.8	
18	11	3	7	21	1	7	32	1	9	20	0	7	30	1	9	22	0	7	31	1	9	81	45	63	14.1	2.5	111°	4.3	
19	12	5	8	21	3	9	29	3	10	19	3	9	27	4	11	21	3	9	27	3	10	83	52	69	16.8	3.5	104°	9.9	
20	11	1	5	22	-2	6	34	-3	9	19	-2	6	31	-2	8	22	-3	5	37	-2	9	43	18	28	9.1	1.2	313°	0.0	
21	11	1	6	25	-2	7	40	-2	10	22	-3	6	37	-2	9	25	-3	6	41	-2	10	48	20	33	5.1	0.9	16°	0.0	
22	12	0	7	28	-3	7	41	-3	9	26	-3	7	36	-3	9	29	-3	7	44	-3	10	60	23	37	4.5	0.8	37°	0.0	
23	10	0	6	24	-3	7	34	-3	8	27	-3	6	30	-3	8	23	-3	9	35	-3	9	93	36	63	8.7	0.7	61°	1.0	
24	14	5	9	31	2	9	44	2	12	28	2	9	39	2	11	30	2	9	45	2	12	98	43	66	6.9	1.0	43°	7.4	
25	13	5	8	24	4	10	34	4	12	23	3	10	33	3	12	24	3	10	39	3	13	74	43	59	12.0	2.0	38°	0.9	
26	14	2	8	46	-1	13	49	-1	14	35	-1	9	47	-1	12	37	-1	9	54	-1	14	91	39	69	3.7	0.6	53°	0.0	
27	13	3	7	40	-2	9	41	-2	9	36	-1	8	38	-1	8	30	-1	8	44	0	9	87	43	72	3.5	0.7	58°	0.0	
28	10	4	6	33	0	6	35	0	6	23	0	6	33	0	6	25	0	6	38	0	7	87	53	73	4.1	0.7	57°	0.0	
29	13	2	7	40	-2	11	41	-1	11	28	-2	9	35	-2	9	25	-2	9	40	-2	11	79	37	59	5.1	0.8	14°	0.0	
30	10	1	4	31	-3	7	32	-3	7	18	-3	4	27	-3	6	21	-3	4	34	-3	7	72	33	57	6.8	0.9	303°	0.0	
31	15	2	8	41	0	11	42	-1	12	26	-1	8	39	-1	11	29	-1	8	44	-1	12	90	40	63	5.3	0.7	35°	0.0	
Monthly Avg.	13	4	8	27	2	10	36	2	11	24	2	9	34	2	11	25	1	9	37	2	11	81	43	63	11.8	2.0	124°		
Monthly Total																													40.7
YTD <sup>†</sup> Avg.	13	4	8	27	2	10	36	2	11	24	2	9	34	2	11	25	1	9	37	2	11	81	43	63	11.8	2.0	124°		
YTD <sup>†</sup> Total																													40.7

<sup>†</sup> Year To Date

Note: Data marked in green are 10-year averages. The WX Station was not operable those days.

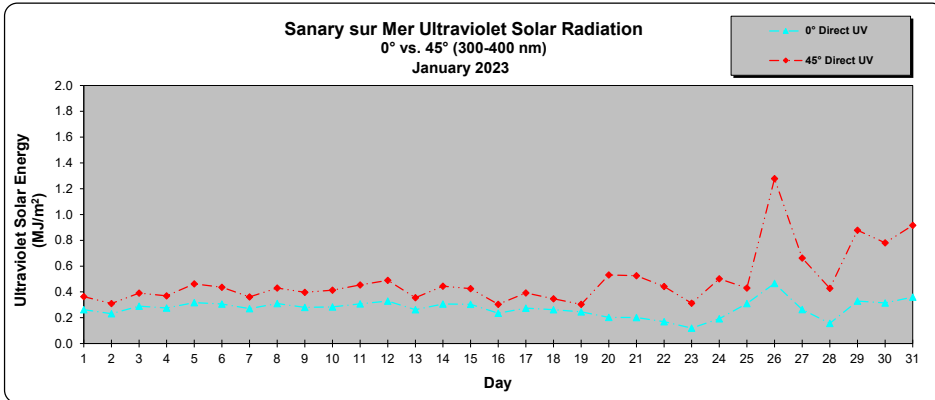
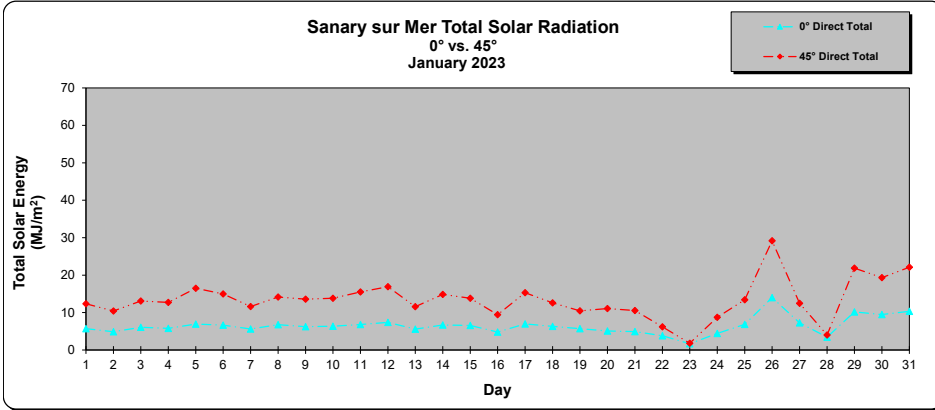


**Solar Radiation Summary**  
**January 2023**  
**Sanary sur Mer, France**

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

AWSG		Solar Radiation Summary					
Month	Total Solar Radiation (MJ/m <sup>2</sup> )		Ultraviolet Solar Radiation (MJ/m <sup>2</sup> )				
	Direct		295-385 nm		300-400 nm		
January	0°	45°	0°	45°	0°	45°	
1	5.7	12.3	0.20	0.27	0.26	0.36	
2	4.9	10.4	0.19	0.26	0.23	0.31	
3	6.1	13.1	0.23	0.31	0.29	0.39	
4	5.8	12.7	0.21	0.28	0.28	0.37	
5	6.9	16.5	0.25	0.36	0.32	0.46	
6	6.6	15.0	0.24	0.34	0.31	0.44	
7	5.6	11.6	0.21	0.28	0.27	0.36	
8	6.8	14.2	0.24	0.33	0.31	0.43	
9	6.2	13.6	0.21	0.30	0.28	0.40	
10	6.4	13.8	0.24	0.36	0.28	0.41	
11	6.8	15.5	0.24	0.35	0.31	0.45	
12	7.4	16.9	0.26	0.38	0.33	0.49	
13	5.6	11.6	0.20	0.28	0.26	0.36	
14	6.7	14.8	0.25	0.36	0.31	0.44	
15	6.6	13.8	0.25	0.35	0.30	0.43	
16	4.8	9.4	0.19	0.25	0.24	0.30	
17	7.0	15.3	0.23	0.33	0.27	0.39	
18	6.3	12.6	0.20	0.26	0.26	0.35	
19	5.7	10.5	0.19	0.24	0.25	0.30	
20	5.1	11.1	0.00	0.40	0.20	0.53	
21	4.9	10.5	0.00	0.40	0.20	0.53	
22	3.8	6.2	0.00	0.34	0.17	0.44	
23	1.7	1.8	0.00	0.24	0.12	0.31	
24	4.4	8.7	0.00	0.38	0.19	0.50	
25	6.9	13.4	0.24	0.34	0.31	0.43	
26	14.0	29.2	0.36	0.97	0.47	1.28	
27	7.2	12.5	0.20	0.50	0.26	0.66	
28	3.5	4.0	0.12	0.33	0.16	0.43	
29	10.2	21.9	0.25	0.67	0.33	0.88	
30	9.5	19.3	0.24	0.59	0.32	0.78	
31	10.3	22.1	0.27	0.70	0.36	0.92	
<b>Monthly Total</b>	<b>199.3</b>	<b>414.4</b>	<b>5.89</b>	<b>11.75</b>	<b>8.44</b>	<b>15.14</b>	
<b>YTD<sup>1</sup> Total</b>	<b>199.3</b>	<b>414.4</b>	<b>5.89</b>	<b>11.75</b>	<b>8.44</b>	<b>15.14</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 marked in green are 10-year averages. The WX Station was not operable those days.



**Weather Summary  
January 2023**

North Sea Corrosion Test Centre

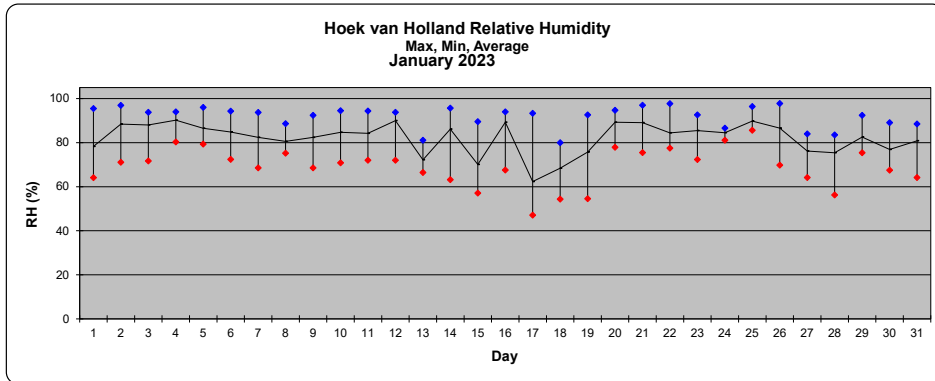
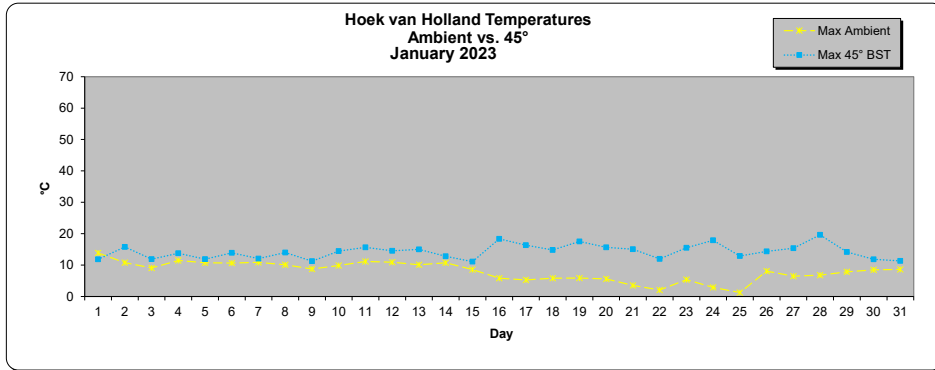
**Hoek van Holland, The Netherlands**

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

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)
January	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	Avg	Total
1	14	10	12	12	2	5	96	64	78	15.9	6.4	339°	3.3
2	11	7	9	16	2	6	97	71	88	10.1	4.1	22°	3.0
3	9	4	7	12	3	6	94	72	88	13.7	5.2	322°	0.5
4	11	9	10	14	3	6	94	80	90	16.1	9.1	358°	7.9
5	11	9	10	12	2	5	96	79	87	13.1	6.1	21°	0.8
6	11	9	10	14	2	5	94	72	85	13.6	5.7	353°	1.8
7	11	9	10	12	2	5	94	69	82	14.1	7.8	321°	0.5
8	10	7	8	14	3	6	89	75	81	14.7	6.5	328°	1.3
9	9	6	8	11	3	6	92	69	82	11.4	6.1	28°	2.5
10	10	6	7	14	2	6	95	71	85	14.5	7.1	351°	5.3
11	11	9	10	16	1	5	94	72	84	15.3	7.3	6°	1.5
12	11	9	10	15	2	5	94	72	90	18.8	9.2	2°	27.4
13	10	9	9	15	2	5	81	66	72	15.4	7.9	23°	0.0
14	11	6	8	13	0	4	96	63	86	17.4	7.5	355°	12.7
15	9	4	7	11	0	4	90	57	70	16.6	7.5	16°	1.0
16	6	4	4	18	-1	4	94	68	89	14.3	4.6	307°	18.8
17	5	2	4	16	-2	3	93	47	62	17.2	3.9	56°	3.3
18	6	4	5	15	-3	2	80	54	68	12.7	5.2	37°	0.0
19	6	1	4	18	-3	3	93	55	76	13.4	5.1	57°	11.4
20	6	0	3	16	-4	2	95	78	89	11.6	3.9	339°	7.4
21	4	-3	0	15	-3	2	97	76	89	5.1	1.7	192°	0.0
22	2	-3	1	12	-2	2	98	78	84	8.2	2.9	174°	0.0
23	5	2	3	16	-2	3	93	72	86	6.1	2.1	201°	0.0
24	3	0	2	18	-1	3	87	81	85	6.0	2.1	214°	0.0
25	1	0	0	13	-1	3	96	86	90	6.8	2.7	302°	0.5
26	8	1	5	14	0	4	98	70	87	11.4	4.0	161°	2.3
27	6	3	4	15	1	5	84	64	76	9.8	4.2	179°	0.0
28	7	2	4	20	1	5	84	56	75	4.6	1.5	281°	0.0
29	8	4	5	14	0	4	92	75	83	9.4	4.3	351°	0.0
30	9	6	7	12	-1	3	89	68	77	14.0	6.9	68°	0.0
31	9	6	7	11	0	3	89	64	81	12.0	5.2	35°	0.0
Monthly Avg.	8	4	6	14	0	4	92	69	82	12.4	5.3	187°	
Monthly Total													113.3
YTD <sup>1</sup> Avg.	8	4	6	14	0	4	92	69	82	12.4	5.3	187°	
YTD <sup>1</sup> Total													113.3

<sup>1</sup> Year To Date For Pollution (SO2, Nox, O3) visit [www.lml.rivm.nl](http://www.lml.rivm.nl)

Note: The Black Panel Sensor was not measuring properly. Highlighted data are 10-year averages.



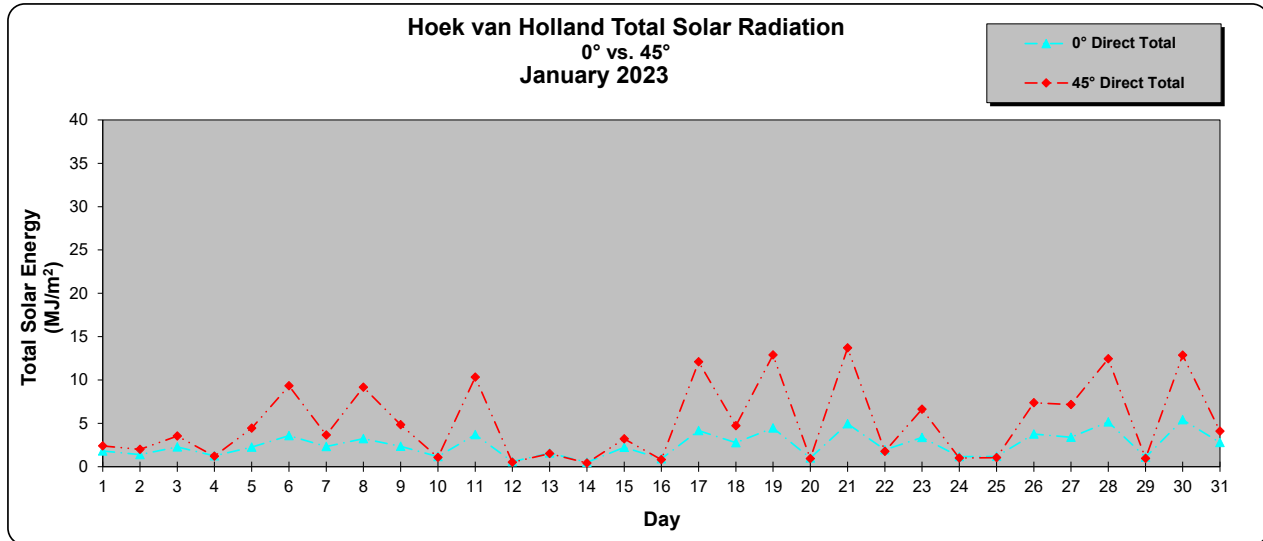
North Sea Corrosion Test Centre  
**Solar Radiation Summary**  
**January 2023**

**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> )	
January	Direct	
Day	0°	45°
1	1.8	2.4
2	1.4	2.0
3	2.3	3.5
4	1.3	1.2
5	2.3	4.4
6	3.6	9.3
7	2.3	3.6
8	3.2	9.2
9	2.3	4.8
10	1.2	1.1
11	3.7	10.3
12	0.6	0.5
13	1.6	1.5
14	0.5	0.4
15	2.2	3.2
16	0.9	0.8
17	4.2	12.1
18	2.8	4.7
19	4.5	12.9
20	1.0	0.9
21	5.0	13.7
22	2.0	1.8
23	3.4	6.6
24	1.2	1.0
25	1.2	1.0
26	3.8	7.4
27	3.4	7.2
28	5.2	12.4
29	1.1	1.0
30	5.4	12.9
31	2.8	4.1
<b>Monthly Total</b>	<b>77.9</b>	<b>158.1</b>
<b>YTD<sup>†</sup> Total</b>	<b>77.9</b>	<b>158.1</b>

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

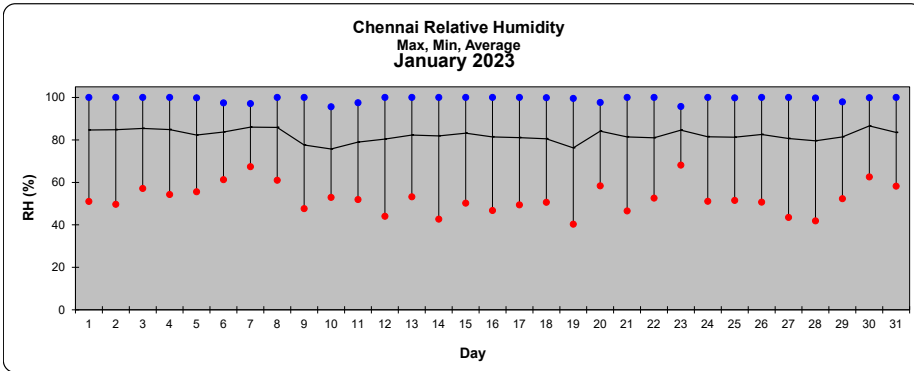
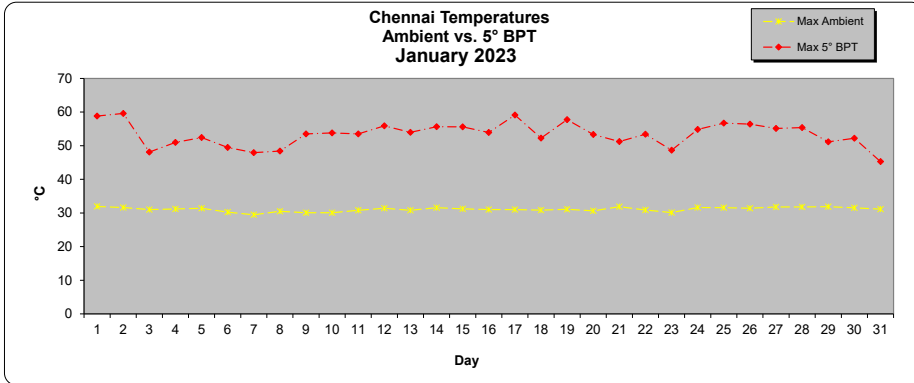




Latitude 12° 35' North, Longitude 79° 48' East Elevation 45 (m)

AWSG	Temperature Summary						Climate Summary						
	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (°C)			Relative Humidity			Wind Speed		Wind Direction	Rainfall
Month	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	360°/0°=N	Total
January	(° C)			5 °			(% )			(m/s)			(mm)
Day	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg		Total
1	32	22	26	59	19	30	100	51	85	3.3	0.6	357°	0.0
2	32	22	26	60	19	29	100	50	85	3.5	0.7	7°	0.0
3	31	23	26	48	20	27	100	57	85	4.8	0.6	355°	0.0
4	31	23	27	51	20	28	100	54	85	5.2	0.9	360°	0.0
5	31	23	27	52	20	29	100	56	82	5.6	1.0	14°	0.8
6	30	24	27	49	21	27	97	61	84	5.9	1.3	353°	0.0
7	29	23	26	48	21	26	97	67	86	5.4	1.0	354°	0.0
8	30	22	26	48	19	27	100	61	86	5.1	1.0	357°	0.0
9	30	20	25	54	17	27	100	48	78	5.3	0.9	351°	0.0
10	30	21	25	54	18	27	96	53	76	4.9	1.1	349°	0.0
11	31	20	25	53	17	27	98	52	79	3.6	0.9	350°	0.0
12	31	21	25	56	17	28	100	44	80	3.6	0.8	344°	0.0
13	31	20	25	54	17	27	100	53	82	3.1	0.6	31°	0.0
14	32	20	25	56	17	28	100	43	82	3.4	0.7	334°	0.0
15	31	20	24	56	16	27	100	50	83	4.3	0.7	351°	0.0
16	31	20	24	54	16	28	100	47	81	3.8	0.8	7°	0.0
17	31	20	25	59	16	27	100	49	81	3.7	0.8	28°	0.0
18	31	21	25	52	17	27	100	51	81	4.1	0.8	16°	0.0
19	31	21	25	58	17	27	100	40	76	4.1	0.7	6°	0.0
20	31	21	25	53	18	26	98	58	84	4.1	0.8	335°	0.0
21	32	23	26	51	20	28	100	47	81	5.3	1.0	353°	0.0
22	31	22	26	53	19	27	100	53	81	5.0	0.9	357°	0.0
23	30	23	26	49	20	26	96	68	85	4.2	1.0	360°	0.0
24	32	22	26	55	18	28	100	51	82	4.4	0.9	10°	0.0
25	32	21	25	57	17	28	100	52	81	4.6	0.8	4°	0.0
26	31	21	26	56	17	28	100	51	83	4.3	0.8	2°	0.0
27	32	21	26	55	17	28	100	43	81	4.5	0.8	353°	0.0
28	32	21	26	55	17	28	100	42	80	5.3	0.9	347°	0.0
29	32	22	27	51	19	28	98	52	81	5.7	1.2	2°	0.0
30	32	24	27	52	21	28	100	63	87	4.7	1.1	351°	0.0
31	31	24	27	45	22	28	100	58	84	6.2	1.4	353°	0.0
Monthly Avg.	31	22	26	53	18	28	99	52	82	4.5	0.9	231°	
Monthly Total													0.8
YTD <sup>1</sup> Avg.	31	22	26	53	18	28	99	52	82	4.5	0.9	231°	
YTD <sup>1</sup> Total													0.8

<sup>1</sup> Year To Date



**Solar Radiation Summary**  
**January 2023**  
**Chennai, India**

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

Solar Radiation Summary			
Month	Total Solar Radiation (MJ/m <sup>2</sup> )	Ultraviolet Solar Radiation (MJ/m <sup>2</sup> )	
		295-385 nm	300-400 nm
January	Direct		
Day	5°	5°	
1	19.2	0.67	0.75
2	18.0	0.65	0.72
3	14.1	0.54	0.60
4	16.1	0.59	0.66
5	17.8	0.64	0.71
6	11.7	0.48	0.54
7	9.0	0.37	0.42
8	14.3	0.50	0.56
9	19.5	0.68	0.76
10	17.5	0.62	0.69
11	19.3	0.66	0.73
12	21.4	0.73	0.81
13	18.2	0.65	0.73
14	20.1	0.69	0.77
15	21.5	0.75	0.83
16	22.5	0.77	0.86
17	21.1	0.75	0.83
18	17.3	0.63	0.71
19	19.8	0.70	0.79
20	13.1	0.50	0.56
21	18.4	0.64	0.72
22	16.1	0.59	0.66
23	9.9	0.44	0.49
24	18.3	0.69	0.77
25	19.3	0.68	0.76
26	17.6	0.61	0.68
27	20.3	0.69	0.78
28	19.1	0.66	0.74
29	16.6	0.59	0.66
30	11.2	0.47	0.52
31	12.1	0.49	0.54
<b>Monthly Total</b>	<b>530.1</b>	<b>19.10</b>	<b>21.32</b>
<b>YTD<sup>†</sup> Total</b>	<b>530.1</b>	<b>19.10</b>	<b>21.32</b>

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

