



# Allunga Exposure Laboratory

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## January 2013 Daily Weather Record

Date	Temperature (°C)		Dew Point		Relative Humidity %		Rain mm	Evap. mm	Wet Time Hours	Sun Shine Hours	Global Radiation (MJ/m <sup>2</sup> )			Remarks
	Max	Min	9am	9pm	9am	9pm					Horiz	19°N	Horiz	
1	33	25	22	23	62	75	0.0	8.6	11.9	12.3	26.8	25.2	1.43	Fine
2	35	24	22	23	62	75	0.0	9.4	12.5	11.8	26.5	25.0	1.43	Fine
3	36	24	22	23	64	82	0.0	9.8	11.4	12.2	26.9	25.3	1.43	Fine
4	38	24	17	25	42	73	0.0	10.4	9.7	12.0	26.6	25.1	1.43	Fine
5	39	27	26	25	61	73	0.0	9.8	12.4	11.3	26.6	25.1	1.43	Fine
6	37	26	26	27	63	89	2.5	11.2	9.7	12.0	27.9	26.3	1.50	Fine
7	44	26	19	24	36	58	0.0	9.6	9.6	10.8	21.8	20.7	1.15	Fine
8	36	27	21	22	45	55	0.0	13.2	0.0	10.4	25.7	24.4	1.40	Fine
9	40	28	19	26	35	82	21.5	11.2	4.6	10.3	24.5	23.4	1.38	T/S Fine
10	34	22	24	24	71	73	2.0	13.4	8.4	10.5	21.5	20.4	1.12	Fine
11	33	26	23	24	67	75	12.0	8.0	6.2	7.7	19.1	18.5	1.10	Fine Shwrs
12	32	26	22	22	66	70	37.5	9.4	11.1	9.2	19.9	19.1	1.20	o/night rain
13	33	26	21	23	61	72	0.0	10.4	8.3	11.7	24.7	23.4	1.38	Fine
14	32	25	22	23	64	83	7.5	10.2	7.6	11.5	18.6	17.6	1.08	o/night rain
15	32	25	23	23	67	75	0.0	8.6	5.1	11.5	22.5	21.4	1.25	Fine
16	32	25	23	23	69	73	0.0	7.8	12.2	12.4	24.3	23.0	1.30	Fine
17	32	26	22	23	63	73	0.0	11.0	6.2	12.0	23.8	22.6	1.28	Fine
18	34	26	21	23	60	71	0.0	8.0	4.0	12.2	24.5	23.2	1.35	Fine
19	35	26	23	24	63	73	0.3	9.8	6.2	11.1	25.5	24.3	1.40	Fine
20	36	28	26	26	69	79	0.0	9.6	9.9	10.8	25.1	24.0	1.30	Fine
21	35	29	23	27	60	79	20.5	9.4	2.8	8.6	25.1	24.2	1.35	o/night rain, storm
22	33	29	27	26	77	82	0.0	9.6	6.1	10.1	23.7	22.8	1.30	Fine
23	33	25	25	22	92	65	0.0	12.0	9.0	6.7	22.0	21.5	1.25	Fine
24	33	27	20	19	55	58	18.5	9.8	10.7	11.8	23.2	22.2	1.28	o/night rain
25	32	23	16	22	48	70	0.0	12.4	4.1	11.5	25.5	24.4	1.47	Fine
26	33	24	18	22	52	70	0.0	10.4	10.7	9.3	21.8	21.1	1.28	Fine
27	32	24	21	22	61	69	0.0	9.8	0.2	11.1	23.0	22.1	1.30	Fine
28	33	24	19	22	52	69	33.5	11.2	8.0	10.2	21.5	20.8	1.28	O/N RAIN, Fine
29	32	25	20	21	64	70	0.0	11.8	7.3	3.4	16.8	16.7	0.98	Lt cloud
30	31	24	22	23	69	94	83.5	7.4	10.4	1.3	13.9	13.9	0.70	Rain cloud
31	27	23	23	24	88	100	24.0	0.0	16.3	1.8	7.3	7.0	0.20	Rain cloud

Avg.	Temperature C°		Dew Point		Humidity		Rain mm	Evap. mm	Wet Hrs	Sun Hrs	Radiation		
	Max	Min	9am	9pm	am	pm					Horiz	19° N	UV-R
	34.1	25.5	21.9	23.4	61.5	74.4		9.8	8.1	10.0	22.8	21.8	1.25
<b>Total</b>							<b>263.3</b>	<b>303.2</b>	<b>252.6</b>	<b>309.5</b>	<b>706.6</b>	<b>674.7</b>	<b>38.73</b>

### Per Month

For Langleys divide MJ/m<sup>2</sup> by 0.0418 UV-R = UV-A + UV-B (290-385 nm) **16,902 16,139 Total Langleys**  
 UV data recorded at AEL with Kipp & Zonen CUV5 Pyranometer **545 521 Average Langleys**

Sunshine hours are calculated the total time direct solar irradiance exceeds 120 W/m<sup>2</sup> (International Meteorological Organisation)

Wet Time hours: Duration each day exposed surfaces are wet. Condensation is primary source of moisture.