

## METEOROLOGICAL DATA FOR MANILA CENTRAL OBSERVATORY \*

[ $\phi=14^{\circ} 34' 41''$  N;  $\lambda=120^{\circ} 58' 33''$  E; barometer above sea, 14.2 meters; gravity correction not applied, -1.72 mm.]

Day	Pressure (mean)	Air temperature <sup>b</sup>					Relative humidity (mean)	Vapor pressure (mean)	Mini- mum tem- per- ature on grass	Evaporation <sup>b</sup>	
		Mean	Maxi- mum	Hour	Mini- mum	Hour				Free ex- posure (total)	Shelter (total)
		mm.	°C.	°C.	°C.	Per cent				mm.	°C.
1	760.77	25.2	29.6	1.25p.	22.8	11.30p.	80.9	19.1	21.1	2.2	1.6
2	62.88	24.6	28	0.55p.	22.7	6.10a.	83	18.9	21	2	1.5
3	64.29	24.6	29.5	2.20p.	22.2	4.45a.	82	18.7	20.8	2.5	1.9
4	64.24	24.4	29.5	2.10p.	21.1	11.45p.	79.9	17.9	19.3	3	2.4
5	63.07	23.8	30.8	3.10p.	19.1	6.20a.	78.5	16.9	17.3	3.3	2.5
6	63.14	23.2	28.7	2.20p.	17.8	5.10a.	82.3	17.3	15.5	2.5	1.8
7	63.08	24.4	30.1	1.30p.	20.4	6.35a.	77.4	17.3	18.1	3.1	2.2
8	62.62	23.6	28	4.05p.	20.1	5.15a.	80.6	17.2	17.9	2.3	1.7
9	61.46	24.6	28.8	11.10a.	21.5	6.30a.	84.6	19.4	19.6	1.1	1.1
10	61.74	25.5	32.3	1.05p.	20.4	6.45a.	72.8	17	17.5	4.9	3.6
11	61.63	24.6	30.8	1.30p.	20.1	6.05a.	81	18.4	17	4.1	3.2
12	61.32	24.9	31.1	0.55p.	21.2	6.10a.	82.2	19.2	19.4	3.6	2.8
13	61.99	25.4	31.1	11.20a.	22.1	6.40a.	76	18	20	4.4	3.2
14	62.46	24.2	30.3	10.15a.	21	6.20a.	81.1	18.1	18.9	2.5	2.3
15	62.30	24.9	31.2	2.50p.	21.2	6.05a.	76.4	17.6	19.4	3.6	2.8
16	62.16	24.7	30.9	1.25p.	21.5	6.15a.	81.4	18.6	20.4	3.2	2.7
17	62.09	25	31	1.55p.	20.6	6.15a.	79.4	18.4	18.6	3.7	2.9
18	61.01	24.4	31.9	1.20p.	19.5	6.05a.	76.9	17.7	17.6	5.1	3.9
19	59.68	23.9	30.2	3.55p.	18.5	5.05a.	75.4	16.4	16.2	4.4	2.2
20	59.50	24.3	30.3	2.40p.	19.4	6.05a.	79.1	17.7	17.4	3.3	2.4
21	59.14	25.3	30.3	2.40p.	20.3	6.10a.	79.1	18.8	18.7	3.3	2.4
22	58.93	25.2	30.7	0.30p.	22.6	6.10a.	86.8	20.6	21	1.2	1.1
23	58.95	25.4	30.9	2.25p.	22.6	4.15a.	85.8	20.5	21	1.6	1.6
24	59.27	25.7	31.5	3.40p.	21.2	6.20a.	80.4	19.5	19.2	4.1	2.7
25	59.08	25.4	31.6	3.50p.	20.2	6.25a.	77.8	18.4	18	4.5	2.7
26	59.54	24.7	28.1	11.50a.	23	2.10a.	89.5	20.6	21	.8	.8
27	60.95	25.2	29.8	4.30p.	22.8	11.55p.	84.3	19.9	21.3	2.2	1.7
28	61.59	24.8	28.6	0.20p.	21.6	6.05a.	83.6	19.3	20.1	2.5	2.1
29	61.98	24.8	29	2.10p.	22.2	5.35a.	81.5	18.8	20.8	1.9	1.1
30	62.04	24.4	28.7	2.10p.	22	11.55p.	83	18.7	20.6	1.9	1.7
31	61.57	23.8	27.8	10.50a.	21.3	5.45a.	86.8	18.9	19.9	.7	1.2
Mean	761.43	24.7	30.0		21.1		81.0	18.5	19.2	2.9	2.2
Total										89.5	67.8
Departure from normal	+0.23	0.0	-0.2		+0.7		+3.2	+0.6		-21.4	

Day	Wind				Clouds				Sun- shine	Rain 24 hours beginning 6 a. m.		Miscel- laneous
	Prevailing direction	Total move- ment	Maxi- mum hour- ly ve- locity	Direction at the time of the maximum velocity	Amount (mean)	Form and direction		On the tower		In the park		
						Upper	Lower					
1	NE quad.	75.5	8.0	SW	0-10	A.-Cu. ESE	Cu. ENE	h. m.	mm.	mm.		
2	E quad.	67	8	SW	8.1	A.-Cu. SE, E	Cu. E	3 05			d° p.	
3	SE	135.5	18	SE	8.2	A.-Cu. E	S.-Cu., Cu.-N. E	0 15			d° p.	
4	E quad.	167	22	SE	7.1	Cl.-S.	Cu. E	2 50			d° a.	
5	SE quad.	100	12.5	W	1.2	Cl.	Cu. ENE	9 10				
6	E quad.	86.5	11	SW	6.8	A.-Cu. E	S.-Cu. E	2 25			Δ° a.	
7	E, W	101.5	12	W	4.5	A.-Cu. NE	Cu. E	5 50				
8	NE quad.	72.5	8	NE	8	A.-Cu. E, SE	S.-Cu. E, ESE	1 35			d° a.	
9	NE quad.	89.5	9.5	N	8.6	A.-Cr. E	Cu., Cu.-N. E	0 30	0.5	0.5	d° p.	
10	E quad.	167.5	18	E	3.8	Cl. SW	Cu. E	8 05			Δ° a. d° p.	
11	NE	157	15.5	NE	7.2	Cl.-S. S	Cu. E	2 50				
12	N	141	17	E	8.4	Cl. SSE	Cu. E	3 30			d° a.	
13	NE quad.	184.5	23	E	8.2	A.-Cu. ESE	Cu., S.-Cu. ENE	3 15				
14	N, NE	132	15.5	E	6.8	A.-Cu. SSE	Cu. ENE	4 35	2.8	3.5	● p.	
15	NE quad.	179	25	ENE	7.6	A.-Cu. SSE	Cu. E	5 55	.5	.5	d p.	
16	NE quad.	166.5	21.5	E	7.2	Cl. SSE	Cu. E	4 40			Δ° a.	
17	E quad.	128	15.5	WNW	3.8	Cl. SW	Cu. E	7 50			Δ° a.	
18	E	148.5	16	E	3.1	Cl.	Cu. E	10 00				
19	NE, E	160.5	14	WSW	1.3	Cl., A.-Cu.	Cu. ENE	9 55			Δ° a.	
20	E quad.	120.5	13	WSW	4.9	Cl.	Cu. E	7 25			Δ° a.	
21	W quad.	97	11.5	SW	6.4	A.-Cu. SE	Cu. E	4 20				
22	E quad.	80	12	WSW	7.8	A.-Cu.	Cu. E	3 35	15.9	16.1	● p.	
23	E quad.	92	14.5	WSW	7.3	Cl.-S.	Cu. E	5 15	2.3	2.7	● p.	
24	E quad.	160.5	13	WSW	2.4	Cl.	Cu. E	10 00				
25	E quad.	122.5	14	WSW	1.7	Cl.	Cu. E	10 10				
26	E, SE	71	8.5	SSW	8.8	Cl. SE	N.	0 55	19.6	20.4	d° a. ● p.	
27	Variable	52	5.5	SW	8.7	A.-Cu. E	Cu., S.-Cu. ENE	1 25	.3	.3	d° a. ● p.	
28	NE	91	8	NE	7.5	A.-Cu. ESE	Cu., S.-Cu. E	1 10	.8	.8	● p.	
29	Variable	69.5	7.5	SW	6.9	A.-Cu.	Cu. E	4 40	.1	.1	p° p.	
30	NE, E	100	10	NE	8.7	A.-Cu. SW	S.-Cu. ENE	0 50	.9	1	● p.	
31	E quad.	98.5	8	NNE	9	Cl.-S.	Cu., S.-Cu. E	0 25	3.1	3.8	● p.	
Mean		116.6	13.4		6.4			4 34				
Total		3,614.0						141 25	46.8	49.7		
Departure from normal		-1,339.6			+0.9			-35 18	+22.4			

\* All the mean values given in this table are deduced from hourly observations.

<sup>b</sup> These values are taken from instruments mounted in the Observatory Park, 1.5 meters above ground.

NOTE.—Because the nature of the ground is unsuitable, the observations of underground temperature were discontinued beginning January 1st, 1933.

NOTE.—See Observations for Mirador Observatory, Baguio, on page 26.