NEW SERIES (MONTHLY) VOL. XXVIII

MAURITIUS.

ROYAL ALFRED OBSERVATORY.

LATITUDE 20°5' 39"S., - LONGITUDE 3h 50m 12.6"

RESULTS OF MAGNETICAL AND METEOROLOGICAL OBSERVATIONS.

FOR THE YEAR 1942

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P R E F A C E

The Tables in the Monthly Bulletin have been made as nearly self-explanatory as possible but the following further details should be noted : -

(i) All hourly values, with the exception of those of wind velocity, rainfall and sunshine, refer to instantaneous readings at the exact hour. The hourly values of wind velocity give the run of the wind for one hour centred at the hour denoted, those of sunshine give the total amount of sunshine during one hour ending at the hour denoted, the hours being reckoned from apparent midnight; those of rainfall give the total rainfall during one hour ending at the hour denoted ;

(ii) All times refer to the Civil Day counting from 0h to 24h (Midnight) in Mauritius Standard Time, 4 hours ahead of Greenwich Mean Time.

(iii) Table I - Daily Results of Magnetic Observations. The values of Declination, Horizontal Force and Vertical Force are derived from the hourly measures of the self-recording magnetometers by the formula :

$$x = \frac{x_0 + x_{24}}{2} + x_1 + x_2 \ldots\ldots\ldots\ldots\ldots x_{23}) \div 24$$

(iv) Tables IV and V - Hourly Values of Magnetic Horizontal Force and Vertical Force. No corrections are applied for the diurnal variation of temperature in the magnetic basement. The range during the day seldom exceeds 0.2°C.

(v) Table VI - Meteorological Observations at the Aerological Station, Vacoas. The Values of wind direction and velocity are obtained from a Dines Anemobiograph, the height of the vane above the ground being 75 feet.

The normal values of the meteorological elements in this table refer to the period of 10 years 1926 - 1935.

(vi) Table VII - Daily Results of Meteorological Observations. The values given in columns 1, 6, 8 and 21 are derived from hourly values of the self-recording instruments by the formula indicated in (iii).

The mean temperature of the dewpoint, the relative humidity and the vapour pressure, in columns 9, 11 and 13 respectively, are derived from the mean daily temperature of the air and of evaporation using tables based on Glashers Hygrometrical tables, and are not the means of twenty-four hourly values.

The amount of rainfall in column 15 refers to the Civil Day counting from 0h to 24h. It is measured with a Dines self-recording gauge, diameter of rim 11.31 inches, height above the ground 21 inches and situated 112 yards to the North of the main building. This instrument was brought into use on September 9th, 1938.

The amount of evaporation in column 17 is obtained from the readings of a Negretti and Zambra evaporimeter, which consists of a cylindrical brass vessel 8 inches in diameter and 4 inches in depth. The amount of water in the vessel is meausred at 12h and is recorded to the day on which it is measured. The evaporation therefore is that obtained during the 24 hours interval beginning at 12h on the previous day. In the column for weather the colons divide the day into intervals of three hours or multiples of three hours. The abbreviations used have the usual significations of Beaufort letters, as given in the 'Observers'Handbook" 1926.

The normal values of the meteorological elements used in Table VII are derived from a discussion of the observations for different periods ending with December 1930, as given below : -

Pressure	- Atmospheric	1875 - 1930
Temperature	- [illegible]	1876 - 1930
	- Evaporation	1891 - 1930
	- Dew Point	1891 - 1930
	- Minimum on grass	1883 - 1930
	- Earth at 10 feet	1891 - 1930
	- Earth at 5 feet	1891 - 1930
	- Mean monthly Maximum and Minimum	1891 - 1930
Humidity	- Relative	1891 - 1930
Rainfall	- Amount of	1888 - 1930
	- Duration of	1888 - 1930
Evaporation	- Amount of	1888 - 1930
[illegible]	- Duration of Bright	[illegible]
	- Duration of Possible	[illegible]
Cloud	- Amount of	[illegible]
Wind	- Velocity	1876 - 1930

For Atmospheric Pressure, Air Temperature and Evaporation Temperature new revised values, which differ slightly from those used from 1933-37, were brought into use from 1.1.38.

The 'Day Temperatures' refer to the hours 07 to 18 and the 'Night Temperatures' to the hours 19 to 06.

(vii) Table XII - Direction and Velocity of the Wind. The values of wind velocity are taken from the readings of a Robinson cup anemometer, the height of the cups being 51 feet above the ground level, using the factor 2.2, but an arbitrary correction is applied at low velocities. The correction increases from 0.1 m.p.s.

at 4.3 m.p.s. to 0.6 m.p.s. at 0.0 m.p.s., thus a calm is never recorded.

Since January 1929 the values of wind direction in points of the compass in this table and in degrees in Table VI, column 7, refer to -

North =	32	East =	08	South	16	West =	24 points
	360^0		90^0		180^0 -		270^0 degrees

This also applies to Table XVI, Pilot Balloon Observations.

(viii) Table XIVb - Rainfall at every hour of the day at the Aerological Station, Vacoas. A recording raingauge by Casella was brought into use on 7.6.35 and this table gives the hourly rainfall.

(ix) Table XV - Total Monthly Rainfall at Various Stations. The rainfall at the stations in this table is measured daily at about 9 a.m. and the amount entered to the day on which it is measured. The records are printed as received and the Observatory takes no responsibility for the figures, though on the whole they appear to be accurate.

The normal values in this table are derived from varying periods ending with 1930. For the Observatory they include the years 1871 - 1930 though the record for the exposure is strictly continuous only from 1888 - 1930 with a Beckley Gauge. From 1871 - 1874 the observations were taken at a site about 1½ miles from that of the Beckeley Gauge, and from 1875 - 1887 they were taken at the Observatory with a Glaisher Gauge; diameter of rim 8 inches, height above ground 10 inches and situated 32 yards to the north of the main building.

For the stations marked with an asterisk a day with 0.1 mm is a rain day, for the others the unit is 0.01 ins.

MAURITIUS

ROYAL ALFRED OBSERVATORY

LATITUDE 20°5' 39"S., - LONGITUDE 3h 50m 12.6"

RESULTS OF MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

JANUARY, 1942

N.R.Mc CURDY, B.Sc. F.R.MET.SOC.

DIRECTOR

PUBLISHED IN 1965 BY

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TABLE I - RESULTS OF MAGNETICAL OBSERVATIONS MADE DURING THE MONTH OF JANUARY, 1942

Month and Day 1941	Mean Declination (West)	Mean Horizontal Force (C.G.S. Units)	Mean Vertical Force (C.G.S Units)	Daily Range + Declination	Daily Range + Horizontal Force (Unit 1 γ)	Daily Range + Vertical Force (Unit 1 γ)
JAN.						
1	14°15'.6	.22455	.29958	5.5	39	23
2	16.0	453	958	8.0	102	23
3	15.9	455	964	9.0	63	8
4	15.9	426	967	7.5	67	19
5	16.8	412	966	7.8	35	31
6	15.5	428	965	6.0	30	21
7	15.6	429	962	4.5	45	19
8	15.7	431	965	4.5	24	14
9	16.1	441	962	9.2	38	25
10	15.7	448	961	6.7	43	15
11	16.0	437	961	9.3	43	28
12	16.0	443	964	5.5	40	21
13	16.2	[illegible]	967	6.0	19	23
14	15.3	457	963	9.0	37	23
15	16.2	450	968	5.3	80	20
16	16.0	430	969	6.2	57	21
17	15.9	434	963	12.0	72	46
18	16.2	435	971	9.2	44	15
19	15.8	429	969	15.2	23	34
20	16.6	429	967	8.5	7	25
21	16.0	438	961	10.7	18	46
22	16.0	428	965	9.6	54	30
23	16.2	433	971	7.5	48	21
24	16.4	440	964	4.7	21	21
25	16.1	449	961	4.3	50	25
26	16.8	433	967	3.3	27	21
27	16.0	436	967	3.0	37	14
28	15.6	427	966	5.2	43	10
29	16.7	433	964	5.0	38	15
30	16.5	433	964	6.5	38	25
31	16.2	450	965	5.3	30	13
Mean	14°16.05	.22437	.29964	7.10	42.3	22.4

Description of the Principal Magnetic Disturbance

Horizontal Force : 2nd from 7h : a long but very moderately disturbed period starts, which lasts with little interruption until 7th when [illegible] gradually becomes quiet. Minor irregular features throughout.
9th 3h sudden increase in force (17 γ) a solar flare effect. This is repeated at 23h50m on same day. The trace is only very slightly disturbed on 9th and 10th. 11th to 14th a trace slightly disturbed in parts. 15th trace is moderately disturbed Mainly irregular features. Absolute range 87 γ. 16th to 19th slightly disturbed in parts. 22nd and 23rd slightly disturbed. 25th slightly disturbed. 28th slightly disturbed.

I = .37444 ; Mean Dip = 53°10.45 : X = .21745 : Y = -.05530 : Z = .29964

+ The daily range is the difference between the greatest and least hourly values

TABLE II - RESULTS OF ABSOLUTE DETERMINATIONS OF THE MAGNETIC ELEMENTS DURING THE MONTH OF JANUARY, 1942

Declination (West) Day and Hour	Declination (West) Observed Value	Horizontal Force Day and Hour	Horizontal Force Observed Value	Dip (South) Day and Hour	Dip (South) Observed Value	Resulting Vertical Force
d. h. m.	° '	d. h. m.		d. h. m.	° '	
6.14.28	14.11.2	7. 9.32	.22440	6.14.40	53.10.94	.29956
13.14.39	14.13.2	10. 9.27	.22470	13.14.50	52.10.00	.29961
20.13.41	14.11.3	14.10.01	.22466	20.13.50	53.10.18	.29955
23.15.00	14.12.1	17. 9.25	.22475	23.15.00	53.10.07	.29964
30.13.52	14.12.3	22. 9.48	.22465	30.14.03	53.09.00	.29948
		24. 9.48	.22443			
		29. 9.26	.22437			

TABLE III - MAGNETIC DECLINATION (WEST) AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

JANUARY, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
								14° +									
Midnight	15.0	15.3	16.5	16.0	16.7	16.3	16.0	15.5	15.7	15.7	16.0	15.7	16.5	16.0	15.7	16.0	Midnight
1	15.0	15.7	16.3	16.5	16.5	16.3	16.1	15.5	15.7	16.0	16.3	16.0	16.5	16.5	16.0	16.5	1
2	15.5	16.5	17.0	16.3	18.0	16.0	15.5	15.7	15.7	16.5	16.5	16.5	17.0	16.5	16.5	16.5	2
3	15.8	17.0	17.0	16.5	18.3	16.0	15.5	16.0	16.0	16.7	17.0	16.7	17.0	16.7	15.5	17.0	3
4	16.5	16.5	17.7	17.5	17.5	16.0	16.3	16.0	17.0	17.0	17.3	17.3	17.5	17.0	17.0	16.7	4
5	17.3	17.8	19.0	17.7	18.0	16.7	16.5	16.2	17.7	17.3	17.3	17.7	17.5	18.0	17.3	17.0	5
6	18.0	16.3	20.0	18.3	18.7	17.0	17.5	16.3	17.5	17.3	16.5	18.5	17.7	19.0	17.5	17.7	6
7	19.0	19.5	19.0	20.0	19.5	17.0	17.5	16.0	19.7	17.0	16.3	18.3	18.3	20.0	17.7	18.5	7
8	19.0	19.0	19.0	20.0	20.3	16.0	17.0	16.0	19.0	17.5	16.0	18.0	18.5	19.5	18.3	18.3	8
9	18.5	17.5	18.5	18.0	20.3	16.5	16.7	16.5	19.5	18.0	17.7	18.5	19.5	18.5	19.7	17.7	9
10	17.0	17.0	18.3	18.0	20.0	18.5	18.0	17.7	20.7	19.0	19.5	18.3	19.0	16.5	19.5	17.0	10
11	15.0	16.0	14.5	16.5	19.0	18.3	17.5	18.0	19.0	17.0	20.0	17.5	17.5	14.5	18.5	14.0	11
Noon	14.0	14.0	12.0	14.0	15.7	15.5	16.5	17.3	16.5	15.0	19.3	15.5	14.7	12.0	14.5	12.5	Noon
13	13.5	11.5	11.0	12.5	14.0	13.0	14.7	16.5	14.5	14.5	19.0	13.7	14.0	11.7	13.0	13.0	13
14	13.5	12.0	11.7	12.7	12.5	11.0	13.0	16.0	12.5	14.0	16.5	13.0	13.7	11.5	14.0	12.3	14
15	14.0	12.3	11.5	13.3	13.0	11.5	13.0	14.5	12.3	12.5	13.0	13.5	13.5	11.0	14.3	14.0	15
16	14.3	13.5	12.5	13.5	14.0	11.7	13.0	13.5	11.5	12.3	10.7	13.7	13.7	12.0	14.7	14.3	16
17	14.3	14.7	13.7	12.3	14.7	13.0	13.5	13.7	12.5	12.7	11.0	14.0	14.5	13.5	15.3	15.5	17
18	14.5	16.0	15.0	14.0	15.0	14.5	14.5	14.3	13.7	13.5	12.3	14.3	14.7	14.0	16.0	16.0	18
19	14.7	17.3	16.5	15.5	16.0	15.5	15.0	15.0	15.0	14.5	14.3	15.0	15.0	14.3	16.0	16.3	19
20	14.5	1[illegible].6	16.0	15.5	15.7	15.7	15.5	14.5	15.5	14.7	15.0	14.7	14.7	14.5	15.3	16.3	20
21	14.5	1[illegible].5	15.5	14.7	16.0	16.3	15.7	14.7	16.3	15.5	15.5	15.3	15.5	14.5	14.7	16.5	21
22	14.7	16.5	16.3	15.0	17.5	16.7	15.7	15.7	16.0	16.0	16.0	15.7	16.0	14.7	15.5	16.7	22
23	15.0	16.0	16.3	16.0	17.0	16.0	15.7	15.7	16.2	16.0	16.5	16.3	16.3	1[illegible].5	15.7	17.0	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day / Hour
Midnight	17.5	15.3	15.5	15.7	16.0	16.3	16.5	16.3	16.5	16.3	16.5	16.3	16.5	16.7	15.5	16.1	Midnight
1	17.5	15.5	17.7	16.0	16.3	16.5	16.7	16.5	16.5	16.5	16.7	16.5	16.5	17.0	17.5	16.7	1
2	17.0	16.0	17.5	16.3	16.5	16.5	17.0	16.5	16.5	16.5	16.7	16.7	17.0	17.5	16.3	16.5	2
3	17.3	16.7	18.5	16.7	16.7	17.5	16.7	16.7	16.7	17.3	16.7	17.0	17.0	17.3	16.3	16.8	3
4	17.7	18.0	19.3	17.0	17.3	17.3	17.5	17.0	16.7	17.0	16.7	17.3	17.0	17.5	17.0	1[illegible].2	4
5	18.0	18.7	19.5	17.0	17.5	17.8	18.0	17.5	17.3	17.3	17.0	17.5	17.5	18.0	17.7	1[illegible].6	5
6	18.3	20.5	19.7	18.0	17.5	18.0	17.7	17.7	17.7	17.0	17.3	17.7	18.0	18.5	18.0	17.0	6
7	21.0	20.0	20.0	19.5	18.0	18.7	16.7	18.3	17.5	17.0	17.5	16.5	20.3	20.0	19.5	18.5	7
8	19.5	18.0	22.5	20.3	19.3	19.3	17.5	18.0	16.5	17.3	18.0	16.0	19.0	20.0	19.0	18.4	8
9	19.0	18.7	20.3	20.5	20.5	19.7	19.5	18.0	16.0	18.0	15.0	15.5	16.7	19.7	18.0	18.3	9
10	17.5	17.5	18.0	20.0	20.7	20.3	20.0	18.7	17.0	19.0	14.7	14.0	15.5	18.0	16.0	18.1	10
11	15.0	16.0	12.0	18.5	19.0	19.0	20.0	18.5	18.3	18.5	15.3	12.5	15.3	16.0	15.7	16.9	11
Noon	13.5	13.3	08.0	15.5	15.5	16.5	17.0	17.0	17.5	16.3	14.3	13.0	15.3	15.3	15.0	14.9	Noon
13	09.0	11.3	07.3	13.0	13.0	14.5	14.0	15.0	16.0	16.3	14.5	13.5	15.5	14.0	14.0	13.6	13
14	09.7	13.5	08.5	12.0	10.3	12.3	12.7	14.5	15.0	16.5	15.0	14.0	16.0	13.5	13.7	13.1	14
15	12.0	14.7	11.0	13.5	10.0	11.0	12.5	14.0	14.0	16.5	15.7	14.0	17.3	13.7	14.3	13.3	15
16	14.7	15.3	13.7	14.7	10.5	10.7	12.5	14.7	14.3	16.0	15.5	13.7	17.0	14.0	15.0	13.6	16
17	15.5	15.5	15.5	15.5	13.0	12.0	13.7	15.0	14.3	16.3	15.0	14.3	16.0	15.0	16.5	14.3	17
18	16.0	16.0	16.0	16.0	15.5	13.0	14.3	15.0	14.5	16.0	15.3	15.5	15.5	15.7	16.7	14.9	18
19	15.5	15.7	16.0	16.3	16.3	14.5	15.0	15.5	15.0	15.7	16.0	16.0	15.7	15.5	16.0	15.5	19
20	15.5	15.5	16.0	16.5	16.0	15.0	15.5	16.0	15.5	16.0	16.5	16.5	16.0	15.5	15.7	15.6	20
21	15.0	15.0	15.5	16.5	16.0	15.7	16.0	16.0	15.7	16.0	16.3	16.3	16.0	15.7	15.5	15.7	21
22	15.5	15.5	15.5	16.5	16.0	16.5	16.0	16.0	16.0	16.5	16.5	16.3	16.5	15.5	15.5	16.0	22
23	15.3	15.7	15.7	16.3	16.3	17.0	16.3	16.3	16.3	16.3	16.3	16.5	16.7	15.3	16.0	16.1	23

TABLE IV - MAGNETIC HORIZONTAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

JANUARY, 1942

.22000 + (C.G.S. UNIT)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	439	457	431	412	403	421	422	431	435	450	437	445	433	449	459	439	Midnight
1	443	457	418	410	410	418	423	431	435	450	435	442	440	445	455	439	1
2	445	457	420	411	412	421	435	429	436	449	443	438	435	443	450	435	2
3	447	45[illegible]	429	422	417	425	438	430	429	448	440	439	440	445	462	437	3
4	449	459	435	421	419	430	435	430	455	457	438	440	435	449	453	440	4
5	449	460	460	425	420	439	433	432	455	460	441	441	437	460	452	439	5
6	453	462	451	433	422	431	443	435	455	460	447	449	443	470	455	443	6
7	457	467	447	445	420	438	450	441	461	465	452	455	449	480	460	450	7
8	465	471	455	462	414	443	447	443	466	470	453	466	447	480	457	452	8
9	475	480	480	467	415	437	440	441	455	467	450	470	445	473	465	455	9
10	478	497	481	463	413	435	441	439	453	468	452	463	452	467	480	459	10
11	475	485	480	455	403	430	437	435	445	460	447	460	451	460	490	449	11
Noon	467	480	460	435	402	430	435	430	440	455	435	455	442	457	473	440	Noon
13	456	470	455	430	400	429	430	419	434	443	415	443	439	458	462	433	13
14	453	476	451	415	387	430	423	420	430	437	419	441	440	455	426	455	14
15	445	465	447	415	391	427	410	425	431	435	428	432	441	455	452	419	15
16	446	455	455	420	417	431	405	425	434	436	427	431	[illegible]	456	443	417	16
17	448	447	467	418	423	428	405	429	435	442	435	439	[illegible]	452	430	407	17
18	453	442	460	425	424	423	422	430	431	436	437	438	441	450	422	409	18
19	452	420	457	400	415	422	423	430	432	437	435	435	452	410	413	435	19
20	452	400	469	415	412	419	429	430	430	437	435	430	438	450	420	407	20
21	457	395	471	410	410	413	422	431	428	425	433	430	438	451	432	402	21
22	457	410	472	415	402	425	421	432	433	427	428	431	439	451	437	407	22
23	460	417	470	410	423	430	430	[illegible]	433	434	410	435	443	453	437	412	23

.22000 + (C.G.S. UNIT)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day \ Hour
Midnight	411	432	435	425	427	430	409	432	443	430	427	429	427	413	435	431	Midnight
1	423	435	418	425	427	428	403	431	4[illegible]0	429	429	427	425	412	439	430	1
2	425	438	443	428	428	429	421	431	432	431	428	427	425	420	440	433	2
3	431	451	425	423	431	430	420	431	439	430	432	426	425	426	441	434	3
4	430	450	423	430	431	433	426	432	438	430	433	425	427	426	442	436	4
5	435	445	424	432	432	437	427	434	439	431	431	428	425	429	443	438	5
6	443	435	427	431	436	443	431	440	433	434	434	435	429	432	444	441	6
7	455	435	435	431	441	450	437	440	452	437	440	440	431	434	449	447	7
8	467	437	441	429	44[illegible]	455	445	439	459	440	451	442	432	433	453	450	8
9	[illegible]7	457	440	42[illegible]	441	454	450	449	468	443	457	445	437	440	456	453	9
10	471	416	45[illegible]	426	44[illegible]	453	431	452	473	450	458	453	443	449	459	454	10
11	455	429	45[illegible]	429	445	[illegible]	[illegible]	445	[illegible]20	[illegible]7	456	443	450	449	460	451	11
Noon	445	430	446	4[illegible]0	441	[illegible]1	[illegible]0	8	[illegible]33	[illegible]3	448	430	455	445	465	446	Noon
13	435	443	43[illegible]	441	445	[illegible]0	[illegible]43	[illegible]49	[illegible]60	434	430	431	455	450	469	441	13
14	412	435	420	4[illegible]0	442	[illegible]5	444	449	465	430	430	427	452	449	465	436	14
15	420	443	418	4[illegible]0	440	[illegible]7	443	441	453	423	430	417	437	435	453	433	15
16	420	430	419	426	442	435	439	437	445	426	435	413	430	430	450	433	16
17	420	419	420	4[illegible]	441	427	432	438	440	423	440	415	434	429	451	43[illegible]	17
18	410	413	419	431	441	410	427	441	439	424	438	410	437	430	450	431	18
19	405	425	419	430	440	401	419	440	439	428	432	410	433	431	450	428	19
20	419	435	425	428	439	401	421	441	436	440	428	413	430	429	446	429	20
21	425	435	423	425	440	408	426	440	431	425	421	417	424	423	441	428	21
22	431	434	425	429	433	406	428	440	433	428	423	424	421	430	441	430	22
23	433	439	425	426	430	407	431	440	433	429	425	425	417	436	442	431	23

TABLE V - MAGNETIC VERTICAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature in the Magnet Chamber

JANUARY, 1942

29000 + (C.G.S. UNIT)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	961	959	962	966	972	967	967	966	966	963	966	964	970	969	968	969	Midnight
1	961	959	963	966	971	967	967	965	967	964	967	964	969	969	966	969	1
2	961	959	964	967	971	966	965	967	965	969	965	96[illegible]	970	969	967	969	2
3	962	959	965	966	971	965	964	965	966	965	967	967	971	970	967	970	3
4	963	961	966	967	969	965	964	965	965	967	968	969	972	971	969	970	4
5	964	961	967	968	970	965	964	965	965	964	967	968	9[illegible]2	971	969	971	5
6	967	962	966	970	971	965	966	964	965	96[illegible]	962	970	973	972	971	973	6
7	969	962	962	972	97[illegible]	965	965	965	966	961	959	969	971	971	971	971	7
8	967	961	963	976	982	967	961	969	967	962	961	967	9[illegible]2	9[illegible]	972	969	8
9	963	961	961	971	981	970	965	971	970	965	967	969	974	[illegible]	977	969	9
10	962	960	966	973	975	976	971	973	971	963	967	965	968	959	973	965	10
11	962	957	964	971	967	97[illegible]	967	971	971	959	963	961	959	955	964	959	11
Noon	957	953	959	967	959	961	961	971	964	956	959	951	951	952	957	958	Noon
13	953	947	960	962	951	957	957	967	961	957	957	949	950	949	957	956	13
14	949	942	960	960	951	955	952	964	954	956	951	952	954	951	963	961	14
15	946	947	961	957	957	956	953	961	949	952	945	957	962	959	962	965	15
16	949	950	963	959	955	956	955	961	946	954	941	961	969	961	962	969	16
17	949	952	962	960	956	960	960	959	952	957	950	961	971	961	965	971	17
18	951	957	962	961	957	965	961	959	957	959	956	962	970	962	968	972	18
19	955	961	967	967	960	965	961	959	960	961	961	964	971	963	970	973	19
20	956	963	965	967	961	965	961	961	961	962	961	965	969	965	971	975	20
21	957	965	965	969	965	967	96[illegible]	962	961	964	962	967	969	965	971	975	21
22	959	964	966	970	970	969	[illegible]	963	962	965	963	969	969	966	971	977	22
23	959	963	965	970	967	965	[illegible]	965	963	965	965	969	969	966	970	976	23

29000 + (C.G.S. UNIT)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
Midnight	977	970	972	973	971	970	974	971	967	967	967	966	969	969	969	966	Midnight
1	974	970	974	972	972	971	974	971	969	967	967	967	968	970	968	966	1
2	973	970	973	971	971	971	974	972	970	968	968	968	967	970	967	969	2
3	972	969	972	971	971	970	973	972	969	969	968	969	969	969	967	960	3
4	973	969	973	971	970	970	973	972	970	969	969	970	969	970	969	969	4
5	975	971	974	971	969	969	972	971	970	970	969	971	970	971	969	969	5
6	975	976	974	971	969	969	970	971	970	969	970	971	971	972	970	969	6
7	976	974	975	974	969	968	967	970	968	970	969	970	971	975	971	969	7
8	971	974	979	975	973	969	972	966	963	972	967	966	964	971	970	969	8
9	965	979	971	973	977	971	981	967	959	977	969	965	959	964	966	969	9
10	955	973	959	969	971	973	982	967	959	98[illegible]	971	963	957	957	966	968	10
11	945	976	946	965	960	970	976	961	952	971	971	961	957	955	965	963	11
Noon	931	955	945	959	944	965	965	957	945	963	971	963	960	952	963	957	Noon
13	933	961	951	950	935	961	961	953	946	964	976	965	960	951	959	955	13
14	941	963	962	951	939	955	963	951	949	965	975	965	956	[illegible]	958	955	14
15	950	970	971	954	931	951	966	953	951	961	967	961	957	95[illegible]	959	956	15
16	957	971	975	960	940	946	966	955	954	959	961	961	96[illegible]	[illegible]	960	958	16
17	962	974	976	963	952	945	969	959	958	961	957	962	960	962	964	960	17
18	966	974	973	965	961	955	969	959	959	960	958	967	960	963	965	962	18
19	967	971	971	966	962	963	970	961	961	961	961	965	960	951	959	955	19
20	969	971	970	967	962	967	970	962	962	963	964	970	965	967	964	965	20
21	970	971	970	969	964	970	970	964	963	964	965	969	966	965	965	966	21
22	971	973	971	969	966	973	971	965	965	965	966	967	967	965	966	967	22
23	971	975	973	971	969	975	971	966	965	965	966	967	969	965	967	968	23

TABLE VI - RESULTS OF METEOROLOGICAL OBSERVATIONS MADE AT THE AEROLOGICAL STATION, VACOAS (424.5 metres above mean sea level) DURING THE MONTH OF JANUARY, 1942

Month and Day 1942	Observations at 10 a.m.									Temperature of the Air							Rainfall			
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat. = 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud Scale (0-10)	3h	9h	15h	21h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Casella Pluviograph	Duration	Duration of Bright Sunshine	Percentage of Possible Sunshine
JAN.	mbs	°C	°C	°C	%	mbs	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms	mins	hrs	%
1	966.6	24.5	[illegible]	[illegible]	91	28.1	85	2.2	8	21.1	24.6	25.8	[illegible]	[illegible]	21.1	6.1	1.4	25	8.2	62
2	965.5	26.1	[illegible]	[illegible]	80	27.1	65	0.9	8	21.8	25.0	27.1	[illegible]	29.0	21.6	7.4	0.4	20	10.0	76
3	[illegible]	25.4	2.8	21.2	78	25.2	125	1.8	8	21.5	25.1	26.4	22.1	28.6	21.7	6.9	0.7	20	11.5	87
4	[illegible]	26.2	2.9	21.9	77	26.3		CALM	8	20.6	25.8	27.1	21.1	29.7	20.5	9.2	...	...	5.3	40
5	965.6	26.7	7.8	13.6	45	15.6		CALM	6	19.5	24.9	27.9	21.8	29.6	19.5	10.1	...	...	6.9	52
6	965.5	27.5	5.4	19.2	61	22.2		CALM	7	19.3	26.3	26.1	21.6	29.5	18.4	11.1	0.5	[illegible]	5.6	43
7	966.7	27.2	3.5	22.0	73	26.4		CALM	8	20.8	26.1	24.8	22.0	29.3	19.4	9.9	...	...	6.3	48
8	966.9	26.6	2.3	23.3	82	28.6		CALM	7	21.1	26.0	24.0	22.5	28.9	21.4	7.5	3.3	115	1.3	10
9	967.0	26.3	2.5	22.6	80	27.4	55	2.0	6	20.4	25.9	21.9	21.7	28.4	20.4	8.0	6.3	190	5.5	42
10	966.9	26.1	2.6	22.3	80	27.0	65	4.3	8	21.6	25.3	23.6	20.1	27.1	21.3	5.8	15.8	270	2.8	22
11	967.1	23.6	1.7	21.1	86	25.0	45	3.1	10	20.6	23.4	23.6	22.4	27.7	20.0	7.7	0.6	70	0.0	0
12	966.3	26.7	3.8	21.0	71	24.9	50	0.9	8	22.7	26.5	23.7	21.6	27.3	21.8	5.5	4.0	585	2.5	19
13	967.2	25.2	2.5	21.4	80	25.5	40	3.6	8	21.8	25.0	26.5	22.3	28.4	21.1	[illegible]	0.3	25	5.1	39
14	968.4	26.3	4.0	21.2	74	25.2	55	4.5	6	21.3	25.6	27.4	22.4	28.9	20.8	[illegible]	...	...	11.6	88
15	969.2	25.5	3.0	21.0	76	24.9	45	3.3	6	21.8	25.0	27.1	22.1	28.7	21.6	7.1	...	...	10.7	81
16	968.5	26.3	3.5	21.0	73	24.9	60	1.3	6	21.6	26.0	26.0	22.2	29.0	21.4	7.6	0.1	5	8.1	62
17	966.4	26.1	4.4	19.3	66	22.4	70	2.7	5	21.5	25.8	26.3	22.3	29.1	20.9	8.2	0.2	10	10.3	79
18	966.7	26.3	4.2	19.9	68	23.2	60	4.5	5	22.4	26.0	28.0	22.1	28.8	21.0	7.8	0.9	25	9.3	71
19	967.7	25.0	2.8	20.7	77	24.4	55	3.4	6	21.3	25.8	27.8	21.6	29.1	21.0	8.1	...	...	8.7	67
20	967.5	26.7	4.2	19.4	64	22.5	75	1.3	6	20.7	26.4	27.5	21.6	30.0	20.3	9.7	...	...	9.9	77
21	966.6	26.4	3.9	20.5	70	24.1	90	4.9	4	22.0	26.2	27.5	22.5	29.4	21.0	8.4	...	...	8.4	65
22	968.4	27.4	4.1	21.3	70	25.3	70	1.5	7	21.6	27.1	26.7	22.4	29.1	21.6	7.5	0.3	5	3.3	26
23	969.0	26.4	4.1	20.2	69	23.7	55	2.2	5	21.7	26.0	28.6	22.9	30.1	21.5	8.6	...	...	11.5	89
24	968.8	26.2	2.7	22.2	79	26.[illegible]	[illegible]	2.2	5	22.0	25.8	29.4	22.5	30.0	21.6	8.4	0.1	5	10.6	82
25	968.5	26.0	3.3	21.1	75	25.0	60	1.0	8	21.5	25.7	26.9	22.0	29.8	21.3	8.5	...	...	6.6	51
26	968.9	26.7	4.3	20.2	68	23.7	90	1.8	5	20.8	26.5	27.1	22.3	29.0	20.8	8.2	...	...	11.4	88
27	967.5	27.0	5.1	19.1	62	22.1	120	2.4	5	21.2	26.8	24.7	21.7	28.9	20.9	8.0	4.1	30	9.4	73
28	967.4	26.8	3.9	21.0	71	24.9	120	2.7	7	20.7	26.6	27.5	22.1	29.0	20.6	8.4	0.5	20	11.6	89
29	967.5	22.8	1.3	[illegible]	[illegible]	24.6	90	3.4	9	20.7	23.3	24.7	20.8	26.4	20.7	5.7	12.6	205	4.2	33
30	967.4	26.3	4.8	13.8	64	21.7	120	1.3	3	20.8	25.9	26.0	21.6	28.0	20.4	7.6	0.7	15	10.1	78
31	966.7	25.1	3.4	19.9	73	23.2	120	5.4	7	21.0	24.8	26.6	21.8	28.0	20.8	7.2	4.2	95	10.4	[illegible]
Mean	967.2	26.0	3.5	20.7	73.3	24.6	...	2.2	6.6	21.2	25.7	26.3	22.0	28.8	20.9	7.9	57.0	1740	7.65	58.7
Average	964.2	24.8	2.3	21.3	80.8	25.3	...	3.4	7.1	...	...	...	...	26.7	20.6	6.1	355.2	...	6.50	49.5
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

EXCESS OF CERTAIN ELEMENTS AT PAMPLEMOUSSES OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	+ 41.1 mbs	Amount of Rain	- 10.5 mms
Temperature of the Air	+ 2.8 °C	Duration of Sunshine	+ 37.0 hrs
Vapour Pressure	+ 1.2 mbs	Mean of Maximum Temperatures	+ 1.5°C
Relative Humidity	- 8.1 %	Mean of Minimum Temperatures	+ 1.7°C
Velocity of Wind	+ 1.3 m.p.s.	Absolute Maximum Temperature	+ 1.4°C
Amount of Cloud	- 0.1	Absolute Minimum Temperature	+ 1.8°C

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF JANUARY, 1942

Month and Day	Atmospheric Pressure: Mean	Atmospheric Pressure: Excess above Average	Temperature of the Air: Daily Maximum	Temperature of the Air: Daily Minimum	Temperature of the Air: Daily Range	Temperature of the Air: Mean	Temperature of the Air: Excess above Average	Excess of Air Temp over Evaporation Temp.	Temperature of the Dew Point: Mean	Temperature of the Dew Point: Excess above Average	Relative Humidity (Sat. = 100): Mean	Relative Humidity (Sat. = 100): Excess above Average	Vapour Pressure	Minimum on the grass	Rainfall: Amount recorded by Dines Pluviograph	Rainfall: Duration	Amount of Evaporation
JAN.	mbs	mbs	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C	mms	mins	mms
1	1006.3	- 0.2	30.2	23.2	7.0	26.2	+ 0.5	2.2	23.0	+ 1.[illegible]	83	+ 7	28.1	21.8	0.9	30	6.4
2	1005.1	- 1.3	30.9	23.5	7.4	26.6	+ 0.9	2.7	22.7	+ 1.5	79	+ 3	27.6	21.6	0.4	20	8.4
3	1004.8	- 1.5	30.0	23.2	6.8	26.1	+ 0.4	2.7	22.1	+ 0.9	79	+ 3	26.6	21.0	2.6	15	6.4
4	1005.9	- 0.4	31.0	22.4	8.6	26.1	+ 0.3	3.3	21.2	- 0.1	74	- 3	25.2	19.8	0.0	..	5.4
5	1006.0	- 0.2	30.6	20.8	9.8	25.8	0.0	3.9	19.9	- 1.6	70	- 7	23.2	17.1	0.0	...	7.5
6	1006.2	0.0	31.0	20.2	10.8	25.7	- 0.1	3.1	21.1	- 0.4	76	- 1	25.0	16.5	0.0	...	8.0
7	1007.1	+ 1.0	30.8	21.7	9.1	25.8	0.0	3.0	21.3	- 0.2	76	- 2	25.3	18.4	0.0	...	6.3
8	1007.8	+ 1.8	29.3	22.7	6.6	26.0	+ 0.2	2.9	21.7	+ 0.1	77	- 1	26.0	19.4	0.0	...	4.6
9	1007.6	+ 1.7	31.0	22.5	8.5	26.2	+ 0.4	3.1	21.6	0.0	76	- 2	25.8	20.0	0.0		5.9
10	1007.6	+ 1.7	28.9	22.2	6.7	24.7	- 1.2	1.6	22.4	+ 0.7	87	+ 9	27.1	21.5	19.0	6	6.0
11	1007.3	+ 1.5	27.6	23.0	4.6	25.2	- 0.7	1.6	22.9	+ 1.0	87	+ 8	27.9	21.0	1.1	80	2.9
12	1006.7	+ 1.0	29.5	23.7	5.8	25.7	- 0.2	1.8	23.1	+ 1.2	86	+ 7	28.3	21.7	0.5	20	4.0
13	1007.8	+ 2.2	30.0	22.5	7.5	25.9	0.0	2.4	22.4	+ 0.5	81	+ 2	27.1	21.8	5.5	105	4.3
14	1009.1	+ 3.6	30.0	22.8	7.2	26.1	+ 0.2	2.8	22.0	+ 0.1	78	- 1	26.4	20.1	0.0	..	8.3
15	1010.0	+ 4.5	30.2	23.6	6.6	26.4	+ 0.5	3.1	21.8	- 0.1	76	- 3	26.1	21.0	0.1	5	7.9
16	1008.5	+ 2.9	30.1	22.6	7.5	26.1	+ 0.2	3.1	21.5	- 0.5	76	- 3	25.6	18.8	0.0	..	8.4
17	1006.9	+ 1.6	30.0	23.0	7.0	26.2	+ 0.3	3.2	21.4	- 0.7	75	- 4	25.0	20.0	0.5	15	8.2
18	1007.9	+ 2.7	30.4	23.3	7.1	26.4	+ 0.5	3.3	21.5	- 0.6	74	- 5	25.6	21.2	0.0	..	8.2
19	1008.7	+ 3.6	30.2	22.7	7.5	26.2	+ 0.2	3.5	20.9	1.2	73	- 7	24.[illegible]	20.4	0.0	..	8.9
20	1007.7	+ 2.7	30.5	21.6	8.9	26.2	+ 0.2	4.3	19.6	- 2.6	67	- 13	22.8	18.5	0.0	..	8.9
21	1007.4	+ 2.5	30.9	23.1	7.8	26.8	+ 0.8	3.5	21.6	0.6	73	- 7	25.8	20.4	0.8	25	8.7
22	1009.3	+ 4.4	30.9	24.1	6.8	26.7	+ 0.7	3.2	22.0	+ 0.2	75	- 5	26.4	23.0	1.2	20	9.2
23	1009.8	+ 5.0	31.0	23.3	7.7	26.7	+ 0.7	3.6	21.4	- 0.8	73	- 7	25.5	21.5	0.0	..	8.3
24	1009.1	+ 4.3	30.7	23.5	7.2	26.8	+ 0.8	3.6	21.5	- 0.8	72	- 8	25.6	21.2	0.4	20	9.3
25	1008.[illegible]	+ 4.0	30.9	22.8	8.1	26.4	+ 0.4	3.4	21.3	- 1.0	73	- 7	25.3	20.3	3.3	25	8.9
26	1009.3	+ 4.6	31.3	21.8	9.5	26.5	+ 0.5	4.1	20.2	- 2.1	68	- 12	23.7	18.5	0.0	..	[illegible].2
27	1007.8	+ 3.1	31.2	21.8	9.4	26.0	0.0	3.5	20.7	- 1.6	73	- 7	24.4	18.2	0.0	..	9.0
28	1007.7	+ 3.1	31.5	21.7	9.8	26.0	0.0	3.2	21.2	- 1.1	75	- 5	25.2	18.6	0.4	25	6.8
29	1008.2	+ 3.6	27.3	22.1	5.2	24.6	- 1.3	1.8	21.9	- 0.2	85	+ 5	26.3	20.0	8.1	145	5.7
30	1007.7	+ 3.1	31.0	23.2	7.8	26.3	+ 0.4	3.5	21.0	- 1.2	73	- 7	24.9	21.9	0.6	25	6.2
31	[illegible]06.5	+ 2.0	30.5	23.0	7.5	26.5	+ 0.5	3.7	20.9	- 1.3	71	- 9	24.7	20.1	1.1	20	6.3
Mean	1007.6	+ 2.2	30.3	22.6	7.7	26.1	+ 0.2	3.1	21.5	- 0.4	76.2	- 2.[illegible]	25.7	20.2	Sum 46.5	Sum 1200	7.[illegible]
Average	1005.4	...	29.8	22.6	7.2	25.9	...	2.7	21.9	...	78.9	...	26.3	20.4	215.4	1959	5.9
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

General Weather Conditions during the Month of January, 1942

No cyclone of importance is known to have occurred. A small weak cyclonic depression formed on the 3rd, to the North-East of Mauritius. It moved southwards passing on the 4th between Mauritius and Rodrigues and moved south-south-east and then south-east. On the 11th, a weak depression formed in the central Mozambique Channel. It moved west and was centred near Beira on the 15th where it filled up. On the 23rd, a depression was centred off the central west coast of Madagascar. It moved west to west-south-west across the Mozambique Channel and on the 27th, was centred near Beira as a weak cyclone. It moved inland recurved and reached the ocean again on the 30th, to the north of Lourenzo Marques moving south east.

Pressure for the month was appreciably above the normal, particularly from the 7th onwards. Mean temperature was about normal, humidity slightly below, cloudiness moderately below and sunshine appreciably above. Rainfall amount was only 21% of the average and badly distributed, 41% being recorded on one day, while its duration was well below normal. Mean wind velocity was 0.7 metres per second less than the average and was [illegible] the average [illegible] day except the 1st.

TABLE VII (Cont'd) - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF JANUARY, 1942

Month and Day 1942	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the Soil: 10 feet	Temperature of the Soil: 5 feet	Temperature of the Soil: 2 feet	Temperature of the Soil: 12 Inches	WEATHER
JAN.	hrs	%	m.p.s.	m.p.s.	°C	°C	°C	°C	0h 3h 6h 9h 12h 15h 18h 21h 24h
1	11.6	87	4.1	+ 0.8	24.7	26.1	28.8	29.4	bro b bcro bc b
2	10.0	75	3.0	- 0.3	24.7	25.[illegible]	28.8	29.1	b bc bcro bc bcro
3	6.4	48	2.8	- 0.5	24.7	25.[illegible]	28.[illegible]	29.2	bcro bc c bc b
4	8.4	63	2.5	- 0.8	24.8	26.1	28.8	28.9	bc c bc
5	10.3	77	2.1	- 1.3	24.7	26.2	28.8	28.7	b bc c bc
6	9.0	68	1.9	- 1.5	24.7	26.2	28.7	29.0	bc b bc c bc
7	5.2	39	1.4	- 2.0	24.8	26.2	28.8	28.8	b bc c bc
8	0.9	7	1.6	- 1.8	24.8	26.2	28.8	28.6	c o
9	6.6	50	2.4	- 1.0	24.8	26.2	28.8	28.5	bc c ct c bcl bc
10	2.9	22	2.7	- 0.7	24.8	26.3	28.7	28.6	b bc c otro oro ororo
11	0.1	1	2.6	- 0.8	24.8	26.2	28.6	28.1	oro o
12	3.4	26	2.2	- 1.2	24.8	26.3	28.6	28.2	c cro c cro bc b
13	7.5	57	2.8	- 0.6	24.9	26.6	28.5	28.2	bro oro c bc
14	11.9	90	2.9	- 0.5	24.8	26.3	28.5	28.6	bc b
15	11.9	90	3.1	- 0.3	24.9	26.4	28.6	29.0	b bcro bc c bc b bo
16	12.2	92	3.0	- 0.4	24.8	26.4	28.7	29.1	bo b bc b
17	11.1	85	3.0	- 0.4	24.8	26.3	28.8	29.3	bro b bcro bc b bc
18	12.4	95	3.0	- 0.4	24.9	26.6	28.5	29.3	b bc b
19	12.6	96	2.9	- 0.5	24.8	26.4	28.9	29.4	b bc b
20	12.1	92	2.8	- 0.5	24.9	26.4	29.0	29.4	b bc b
21	11.4	87	3.1	- 0.3	24.9	26.6	29.1	29.8	b bcro bc c bcro
22	5.7	44	2.9	- 0.5	24.9	26.6	29.3	30.0	bc c cro c bc
23	11.6	89	3.4	0.0	24.9	26.6	29.5	29.8	b bc b
24	12.2	93	3.1	- 0.3	24.9	26.6	29.5	29.8	bcro bc b
25	10.3	79	2.3	- 1.1	25.0	26.6	29.5	29.7	b bcro bc b
26	12.7	98	2.5	- 0.9	25.0	26.6	29.6	29.9	bo b bc b
27	9.4	72	2.6	- 0.8	25.0	26.6	29.6	29.9	b bc
28	8.9	68	2.4	- 1.0	25.0	26.6	29.6	29.6	bc b bc c cro bc b
29	4.6	35	2.8	- 0.6	25.0	26.7	29.5	29.5	bcro oR oro c bc
30	3.8	68	2.3	- 1.1	25.0	26.6	29.5	29.2	o c bc b bc b bcro
31	12.0	90	2.9	- 0.5	24.9	26.6	29.4	29.4	b bc cro bc
Mean	8.84	6[illegible].3	2.68	- 0.71	26.39	24.85	28.99	29.16	
Average	7.73	58.8	3.39	....	26.36	24.84	28.02	27.51	
Column	19	20	21	22	23	24	25	26	27

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF JANUARY, 1942

Element	Highest	hrs	Date	Lowest	Date
Atmospheric Pressure	1011.5 mbs	at 22.00	on 22nd	1003.1 mbs	at 16.00 on 2nd
Temperature of Air	31.5°C	at 14.45 hrs	on 28th	20.2°C	at 05.45 on 6th
Daily Range of Temperature of the Air	10.8°c		on 6th	4.6°C	on 11th
Temperature of the Dew Point	25.0°C	at 10.00 hrs	on 12th	17.6°C	at 15.00 on 31st
Daily Range of Temperature of the Dew Point	...		...	....	
Minimum on grass				16.5°C	on 6th
Relative Humidity	97.5 %	at 01.00	on 11th	46.9 %	at 15.00 on 31st
Vapour Pressure	31.7 mbs	at 10.00	on 12th	20.1 mbs	at 15.00 on 31st
Evaporation kn 24 hrs	9.3 mms		on 24th	2.9 mms	on 11th
Wind Velocity	5.9 m.p.s.	at 15.00	on 1st	0.6 m.p.s.	often
Rainfall in 24 hrs	20.1 mms	ending 02.00	on 11th	0.1 hr	on 11th
Duration of Sunshine	12.7 hrs		on 26th		

Mean Day Temperature of Air 28.16°C Average 27.74°C Mean Night Temperature of Air 24.02°C Average 23.98°C

NUMBER OF DAYS OF

Mean Cloud Amount: 0	1 - 3	4 - 6	7 - 9	10	Rainfall: 0.1 - 0.9 mms	1.0 - 4.9 mms	5.0 - 9.9 mms	10.0 - 24.9 mms	25.0 & over mms	Lightning	Thunderstorm
...	6	16	7	2	9	5	2	1	...	...	...

TABLE VIII - ATMOSPHERIC PRESSURE IN MILLIBARS AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECO

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level). The cistern of the barometer is 55.2 metres above mean sea level

JANUARY, 1942

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	076	063	052	062	069	070	067	077	091	077	088	071	080	089	110	101	Midn
1	070	059	049	059	062	065	061	076	082	070	081	067	075	082	105	099	1
2	062	053	046	053	058	062	060	073	075	069	074	059	071	078	101	096	2
3	059	050	041	050	055	060	059	071	070	063	070	054	070	078	098	091	3
4	060	050	040	048	057	056	059	072	067	064	064	053	070	080	096	088	4
5	060	049	040	050	057	056	060	075	070	069	066	056	073	[illegible]	[illegible]	090	5
6	062	053	043	057	061	060	065	080	073	071	073	062	081	099	102	093	6
7	069	060	047	061	064	064	072	090	081	077	081	070	081	093	107	099	7
8	070	062	051	069	068	067	077	081	087	080	085	077	083	096	108	099	8
9	071	063	052	070	070	065	080	082	081	081	086	076	086	100	107	096	9
10	071	061	053	069	065	063	078	080	081	081	085	075	084	100	107	091	10
11	070	059	051	063	061	061	076	080	080	080	082	070	081	100	107	089	11
Noon	068	051	049	059	059	060	074	075	079	079	080	067	080	096	102	081	Noon
13	061	049	046	057	053	057	073	071	072	075	075	067	077	[illegible]	099	078	13
14	056	042	041	051	051	051	071	070	070	071	070	060	072	085	093	071	14
15	050	037	038	049	051	050	068	070	069	070	064	061	070	081	089	065	15
16	050	031	037	048	048	050	069	070	064	064	060	056	070	079	086	061	16
17	051	036	040	051	049	053	070	070	066	070	060	059	070	079	085	061	17
18	054	040	042	053	051	061	071	074	071	077	062	061	076	086	089	063	18
19	061	045	051	061	059	069	076	080	078	081	067	070	080	093	095	071	19
20	065	050	057	069	062	070	080	082	082	084	068	071	081	099	100	076	20
21	069	052	061	070	069	070	081	087	086	086	070	079	087	104	105	081	21
22	071	052	062	070	072	071	081	091	086	090	071	081	090	110	104	084	22
23	070	051	064	071	074	070	083	091	081	090	073	082	090	112	105	084	23

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day / Hour
Midnight	080	079	096	095	081	081	111	101	093	098	094	090	081	090	079	084	Midni
1	074	071	091	090	075	078	103	098	089	096	089	083	080	088	071	079	1
2	070	066	090	087	071	075	099	091	087	091	083	081	074	081	074	087	2
3	064	069	081	081	070	074	097	090	086	091	080	078	073	076	062	071	3
4	062	070	084	080	070	075	095	090	084	091	078	077	072	075	061	071	4
5	062	071	087	080	071	079	094	091	089	093	080	080	075	077	063	072	5
6	067	075	091	081	074	039	099	096	095	098	082	081	080	082	073	077	6
7	069	077	092	081	080	096	107	100	097	105	086	087	086	086	079	082	7
8	070	078	092	080	079	100	110	101	100	106	086	088	088	089	079	084	8
9	071	080	093	080	079	101	110	102	101	106	087	090	090	090	079	085	9
10	070	080	092	078	075	100	109	101	100	104	081	084	089	078	089	083	10
11	067	080	091	073	100	108	073	097	095	099	076	080	087	083	072	080	11
Noon	066	079	089	070	071	095	101	091	089	091	071	078	081	080	070	077	Noon
13	061	076	080	067	070	091	094	086	080	087	067	071	077	071	061	072	13
14	057	074	074	062	068	088	088	080	074	082	061	064	074	066	056	068	14
15	056	072	071	060	063	081	080	072	070	078	060	060	071	061	051	064	15
16	056	071	070	060	061	081	076	071	069	076	056	057	070	060	048	062	16
17	060	071	072	062	063	085	079	073	071	076	060	060	072	060	048	064	17
18	066	078	078	070	071	092	087	080	077	081	070	064	079	064	050	069	18
19	073	086	084	074	078	100	091	089	083	091	076	071	090	070	057	076	19
20	080	091	091	077	081	109	098	092	090	097	085	077	091	075	061	080	20
21	080	094	097	082	082	114	101	096	095	100	091	081	092	079	066	084	21
22	084	093	100	088	086	115	106	096	099	101	093	083	094	080	069	086	22
23	081	097	100	088	084	114	106	098	099	092	099	081	093	081	066	086	23

TABLE IX - AMOUNT OF CLOUD AT EVERY HOUR OF THE DAY (0-CLEAR SKY, 10 - OVERCAST SKY)

Hour \ Day	JANUARY, 1942																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Midnight	1	1	7	5	2	7	1	8	5	0	10	8	2	4	1	0	2	3	1	1	2	3	3	5	1	0	0	5	2	9	2	3.3
1	4	1	5	5	2	6	1	9	5	0	10	9	2	4	1	0	2	3	1	1	2	4	3	5	1	0	0	5	2	10	2	3.4
2	1	2	10	5	3	4	1	9	3	0	10	9	2	4	1	0	2	3	1	1	2	4	3	8	1	0	0	4	4	10	2	3.5
3	1	2	4	5	3	2	1	9	2	3	10	8	3	4	1	0	2	3	1	2	3	5	3	8	1	0	1	5	2	10	2	3.4
4	1	2	3	5	5	2	1	9	2	3	10	8	6	4	4	1	2	5	1	2	3	7	4	8	1	0	1	2	5	9	2	3.8
5	3	3	5	3	4	3	3	9	4	4	10	6	10	4	4	2	5	6	1	3	10	8	5	5	9	1	1	2	4	9	10	4.9
6	3	3	5	6	6	3	3	9	4	5	10	5	10	5	4	3	3	7	1	4	5	9	6	3	6	1	1	2	4	7	9	4.9
7	5	3	4	6	7	2	3	9	4	7	10	8	10	5	4	4	3	7	1	4	5	8	6	3	6	2	1	4	4	5	9	5.1
8	5	4	5	6	8	4	4	9	6	9	10	8	10	6	4	4	4	5	3	4	5	8	5	4	6	3	4	6	6	3	8	5.7
9	6	7	6	7	8	5	6	10	8	9	10	8	10	6	4	4	4	4	5	4	5	8	5	5	6	4	6	8	9	2	8	6.4
10	6	5	6	7	8	5	8	10	8	10	10	9	9	6	5	5	5	6	4	4	4	8	5	5	5	4	7	8	10	1	8	6.5
11	7	5	7	7	9	5	8	10	7	10	10	9	7	6	7	7	6	7	5	4	8	5	5	5	5	7	9	10	3	8	7	6.8
Noon	7	7	7	7	9	7	7	10	8	10	10	9	8	7	7	5	8	7	5	4	5	8	5	5	5	4	7	9	10	3	6	7.0
13	7	7	7	9	8	7	8	10	8	10	10	9	7	5	7	5	3	7	4	4	5	8	6	5	5	6	7	9	10	4	6	6.8
14	7	7	6	9	7	8	9	10	7	10	10	9	8	5	8	53	3	7	4	4	5	8	5	5	5	6	7	9	10	5	4	6.8
15	7	8	7	9	7	8	9	10	9	10	10	10	8	6	8	6	2	6	4	4	7	8	4	4	7	6	9	9	9	8	4	7.2
16	5	7	7	9	8	8	9	10	9	10	10	10	8	5	6	4	2	5	4	4	7	8	4	3	6	4	8	9	9	6	4	6.7
17	3	6	8	9	9	9	9	10	9	10	10	9	7	5	4	3	3	3	5	3	8	8	4	3	5	2	7	9	8	5	4	6.4
18	1	5	8	9	9	9	9	10	8	10	10	9	7	5	4	3	4	3	6	3	9	8	4	3	4	2	7	9	6	5	4	6.2
19	1	2	7	7	5	8	10	6	10	10	2	6	1	1	1	4	4	1	3	2	9	6	1	1	3	1	7	2	6	1	6	4.3
20	1	2	2	7	7	5	8	10	6	10	10	2	6	1	1	1	4	1	3	2	9	6	1	1	3	1	7	2	6	1	6	4.3
21	1	2	2	7	7	5	4	10	10	5	10	10	2	4	1	0	1	4	1	1	2	9	5	1	1	2	1	6	2	6	3	3.9
22	1	2	2	9	7	5	2	10	5	10	10	2	4	0	0	1	3	1	1	2	6	5	1	1	1	1	6	2	7	3	5	3.7
23	1	8	2	9	7	5	7	10	4	10	10	2	4	0	0	1	30	3	5	3	8	8	4	3	5	2	7	9	8	5	4	6.4

TABLE X - DURATION OF BRIGHT SUNSHINE AT EVERY HOUR OF THE DAY AS RECORDED BY THE CAMPBELL-STOKES SUNSHINE RECORDER

Hour Ending \ Day	JANUARY, 1942																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	hrs
6h	0	2	3	2	13	12	11	0	0	0	0	3	1	19	3	9	0	11	20	25	0	0	0	4	24	25	24	24	0	25	0	4.3
7	13	60	60	56	40	57	60	0	31	21	0	60	36	58	52	60	50	60	60	60	46	0	45	60	60	60	60	48	30	60	45	23.5
8	57	60	60	60	59	60	60	20	60	53	0	37	7	58	50	60	60	60	60	60	60	1	60	60	60	60	60	60	0	60	60	25.7
9	60	59	60	60	36	60	60	0	60	47	2	48	2	60	59	60	60	60	60	60	60	16	60	60	60	60	60	60	56	60	60	28.4
10	60	60	60	32	60	40	60	22	60	40	3	19	51	60	60	60	60	60	60	60	60	60	60	60	60	60	60	50	43	60	60	27.0
11	60	60	47	60	60	60	15	0	60	8	1	16	60	60	60	60	60	60	60	60	60	9	60	60	60	60	60	34	0	60	60	24.2
Noon	60	60	7	60	60	58	33	6	60	0	0	8	60	60	60	60	40	60	60	60	60	39	60	60	60	60	60	20	0	60	60	23.5
13	60	37	0	15	51	59	2	2	50	0	0	0	60	60	60	60	52	60	60	60	60	18	60	60	60	60	51	55	20	36	60	21.5
14	60	21	18	35	60	60	0	0	8	0	0	0	60	60	60	60	60	60	60	60	60	26	60	60	60	60	12	58	56	25	60	21.4
15	60	48	10	54	60	46	0	0	0	0	0	0	50	60	60	60	60	60	60	60	60	51	60	60	60	60	19	59	49	14	60	21.6
16	60	60	18	27	60	10	2	0	12	0	0	12	33	60	60	60	46	60	60	60	60	31	60	60	28	60	39	40	17	4	60	19.3
17	60	38	13	33	59	12	0	0	0	0	0	0	23	60	60	48	60	60	60	52	50	43	60	60	29	60	60	5	0	28	60	18.2
18	60	18	14	7	4	2	2	0	0	0	0	0	12	40	60	60	60	60	60	50	42	45	51	60	0	60	0	12	8	35	60	14.7
19	21	21	17	0	0	4	7	0	0	0	0	0	0	0	10	16	2	10	12	0	2	0	5	3	0	17	0	5	0	0	18	2.8

TABLE XI - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the Absolute Scale add 273)

JANUARY, 1942

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	24.1	1.0	24.6	1.5	24.3	1.1	23.9	1.7	23.0	2.3	22.1	1.6	23.1	1.9	23.1	1.4	Midnight
1	23.9	0.8	24.6	1.5	24.1	1.0	23.6	1.5	22.2	2.0	21.8	1.6	22.7	1.9	23.3	1.4	1
2	23.2	1.1	24.2	1.2	24.0	0.9	23.5	1.5	21.4	1.8	21.7	1.6	22.3	1.7	23.2	1.2	2
3	23.6	0.9	24.0	1.2	23.5	0.6	23.1	1.7	21.0	1.9	21.4	1.4	22.1	1.7	22.9	1.5	3
4	24.0	0.8	23.7	1.2	23.3	0.5	23.0	1.5	21.6	1.	20.9	1.3	21.7	1.5	23.0	1.3	4
5	24.0	0.8	23.6	1.3	23.4	0.7	22.5	1.4	21.1	1.3	20.3	1.2	22.2	1.2	23.0	1.3	5
6	24.1	1.0	23.8	1.0	23.9	0.7	22.8	1.6	22.1	1.9	20.9	1.8	22.1	1.1	23.3	1.1	6
7	24.7	0.6	25.9	1.9	25.7	1.8	25.0	2.8	25.0	3.0	23.4	1.9	24.9	1.7	24.5	1.3	7
8	26.2	1.3	27.7	3.5	27.0	2.8	26.7	3.7	26.1	4.1	26.7	3.5	27.1	2.9	26.7	2.8	8
9	27.2	2.2	28.0	4.0	28.4	4.2	27.9	4.7	27.0	4.9	28.2	4.6	28.9	4.8	27.0	3.0	9
10	28.3	3.2	29.1	4.9	28.9	4.7	29.1	5.5	28.8	6.8	29.2	5.1	30.0	4.4	28.4	4.6	10
11	28.7	3.7	29.8	4.9	29.0	3.7	29.7	5.5	29.9	6.6	30.1	6.6	29.0	5.2	29.0	4.9	11
Noon	29.0	4.0	30.2	5.8	29.0	3.9	30.6	4.8	29.8	6.8	30.0	4.8	29.9	6.4	29.3	5.3	Noon
13	29.2	4.1	29.3	3.8	28.5	3.5	29.0	4.3	29.8	5.6	30.0	5.0	29.7	5.7	28.9	6.0	13
14	29.5	4.7	29.0	3.0	28.9	3.7	29.7	4.6	30.1	5.6	30.2	5.1	28.5	4.9	27.9	4.3	14
15	29.3	4.6	29.7	3.8	28.2	4.8	29.9	5.1	30.1	6.3	29.9	4.8	28.3	5.3	27.9	4.6	15
16	29.0	4.7	29.3	3.8	28.3	4.	28.9	4.6	29.8	6.5	28.6	4.1	28.1	4.4	27.3	4.3	16
17	27.8	3.7	28.8	2.9	27.2	4.2	28.5	4.1	29.3	6.1	28.1	4.1	27.6	3.6	27.4	4.0	17
18	27.0	3.0	27.0	3.7	26.6	3.7	27.7	3.7	28.2	4.7	27.9	4.0	27.3	3.2	27.1	3.7	18
19	25.8	1.9	25.9	2.9	25.6	2.8	25.6	3.5	26.3	4.0	27.1	3.2	27.0	2.9	26.6	2.5	19
20	25.2	1.3	25.2	2.1	25.1	2.5	25.1	3.3	25.5	3.4	26.2	2.4	25.6	2.2	26.2	2.2	20
21	25.1	1.3	25.0	1.9	24.9	2.4	23.9	2.7	24.5	2.5	25.1	2.1	24.2	1.7	26.0	2.5	21
22	25.0	1.5	24.8	1.7	24.6	2.3	23.7	2.6	23.9	2.6	24.1	1.9	24.0	1.8	25.8	2.1	22
23	24.9	1.6	24.5	1.4	24.1	2.0	23.1	2.3	23.1	2.1	23.3	1.4	23.9	1.8	25.3	1.	23

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	25.2	1.7	24.1	1.3	23.	.4	25.1	1.0	24.2	0.6	23.3	1.0	24.1	1.4	[illegible]	[illegible]	Midnight
1	24.4	1.4	24.3	1.4	23.1	0.3	25.0	0.9	24.1	0.8	23.2	0.9	24.0	1.1	[illegible]	1.6	1
2	23.4	1.3	24.1	1.5	23.1	0.4	25.0	1.0	24.1	0.6	23.8	1.3	24.0	1.1	[illegible]	1.6	2
3	23.1	1.2	23.9	1.7	23.0	0.4	24.7	0.8	24.0	1.0	23.6	1.3	24.0	1.1	[illegible]	1.4	3
4	22.9	1.2	23.9	1.8	23.1	0.4	24.2	0.9	24.0	1.1	23.2	1.1	23.9	1.0	22.9	1.3	4
5	22.8	1.2	24.0	1.8	23.0	0.7	23.9	0.8	22.7	0.6	23.1	1.0	23.8	1.0	22.7	1.3	5
6	23.0	1.1	24.0	1.	23.1	0.8	23.7	0.8	22.9	0.8	23.0	1.0	23.6	1.0	22.8	1.5	6
7	24.3	1.2	25.2	2.0	23.8	0.8	26.0	1.9	24.0	0.7	24.7	1.8	25.5	1.6	24.7	2.0	7
8	26.9	2.8	27.9	4.0	24.7	0.9	26.1	2.0	26.0	1.7	26.0	2.0	26.8	2.7	27.0	3.0	8
9	28.2	4.2	28.3	4.2	25.9	1.8	28.1	2.5	26.1	1.9	28.4	3.6	28.1	4.0	28.2	4.5	9
10	28.9	4.9	28.2	3.5	27.0	2.4	28.3	2.4	27.8	3.7	29.0	4.9	29.0	4.8	29.0	5.1	10
11	29.7	5.4	26.0	1.7	27.3	2.6	29.0	3.8	28.9	4.2	29.0	4.8	29.7	5.3	29.6	5.5	11
Noon	29.3	5.2	26.0	1.9	27.1	3.0	29.1	4.1	29.3	4.3	29.2	4.8	30.0	6.2	30.0	5.9	Noon
13	30.3	6.1	26.4	2.3	27.0	2.9	27.7	3.1	29.0	4.9	29.4	5.0	29.6	6.1	29.7	5.1	13
14	29.2	5.1	25.9	1.6	27.2	3.1	27.7	3.1	29.3	4.4	29.6	5.5	29.2	5.6	29.8	5.	14
15	28.0	4.2	25.4	1.3	27.5	3.2	25.1	1.1	28.6	4.1	29.2	5.0	29.1	5.5	29.2	5.2	15
16	27.8	4.6	25.6	1.2	27.1	3.0	25.7	2.6	28.0	4.6	28.9	4.9	28.9	5.1	28.3	5.0	16
17	27.7	4.0	24.7	0.5	26.8	2.7	26.2	2.1	27.7	3.7	28.0	4.0	28.2	4.8	28.1	4.4	17
18	27.1	4.0	22.8	0.7	26.2	2.0	26.2	3.0	27.1	3.8	27.1	3.1	27.3	4.1	27.1	3.9	18
19	26.3	3.3	23.2	0.5	25.2	2.0	25.1	1.9	26.1	3.0	26.0	2.3	26.2	3.1	25.3	2.3	19
20	26.0	2.9	23.3	0.4	24.9	1.8	24.1	1.6	25.1	2.1	25.0	1.8	25.3	2.3	24.9	1.7	20
21	25.2	2.1	22.6	0.7	25.1	1.2	24.0	1.6	24.5	1.5	24.6	1.5	25.0	2.0	24.2	1.2	21
22	24.3	1.7	22.2	1.1	25.2	1.2	24.0	1.3	24.2	1.2	24.2	1.5	24.3	1.6	23.9	1.6	22
23	24.1	1.5	22.5	0.9	25.1	1.1	24.1	1.0	24.0	1.0	24.1	1.4	24.6	1.7	23.9	1.4	23

TABLE XI (Ctd) - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the absolute scale add 273)

JANUARY, 1942

Day / Hour	17		18		19		20		21		22		23		24		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	23.9	1.5	24.3	1.3	24.0	1.3	23.1	1.8	25.1	3.0	25.1	1.5	24.3	1.5	24.2	1.6	Midnight
1	23.4	1.3	24.0	1.3	23.6	1.4	23.2	2.0	24.1	2.2	24.9	1.8	24.2	1.5	24.8	1.8	1
2	23.3	0.9	24.1	1.5	24.1	1.3	22.9	1.9	24.1	2.1	24.9	2.0	24.1	1.6	24.3	1.2	2
3	23.8	1.5	24.0	1.9	23.5	1.3	23.0	1.8	24.2	2.1	24.5	1.5	23.9	1.4	24.3	1.3	3
4	23.5	1.4	23.9	1.7	23.1	1.1	22.0	1.6	24.2	1.9	24.3	1.2	23.9	1.8	24.1	1.1	4
5	23.3	1.3	23.7	1.1	22.9	1.2	21.7	1.6	23.8	1.6	24.5	1.3	23.4	1.9	23.6	1.4	5
6	23.1	1.2	23.3	1.2	22.8	1.3	22.1	1.5	23.1	1.5	24.3	1.4	23.3	1.4	23.6	1.5	6
7	25.1	2.0	25.6	2.0	25.2	2.1	25.2	2.3	25.5	2.1	25.1	1.4	25.2	2.1	25.0	1.8	7
8	26.8	3.8	27.5	3.6	27.2	3.5	27.3	4.3	27.5	3.7	26.2	1.9	27.8	3.8	27.6	4.0	8
9	27.4	3.8	28.0	4.3	28.0	4.0	28.6	5.4	28.7	5.6	27.2	2.9	28.1	4.4	29.0	5.0	9
10	28.4	4.7	28.9	4.9	29.2	6.2	29.1	6.0	29.4	5.8	29.7	5.2	29.1	5.1	29.9	6.0	10
11	29.2	5.4	29.2	5.3	29.6	6.3	29.3	6.0	29.5	5.6	29.1	4.6	29.3	6.5	30.0	6.4	11
Noon	28.0	5.0	29.2	5.6	30.0	6.3	30.1	7.0	30.1	6.0	30.1	5.4	30.1	6.6	30.3	6.3	Noon
13	29.4	5.7	29.9	6.1	29.7	6.0	30.0	7.1	30.2	6.1	29.9	6.1	30.7	7.0	30.7	7.0	13
14	29.5	5.5	29.9	5.8	29.9	6.7	29.5	6.8	30.0	6.1	30.0	6.4	30.1	6.4	30.1	6.1	14
15	29.2	5.6	29.8	6.1	29.5	6.4	29.3	6.6	29.2	4.5	30.0	5.8	30.2	6.6	30.2	6.9	15
16	28.3	4.5	29.0	5.3	29.2	5.5	29.1	6.9	29.1	5.1	28.6	5.0	29.9	6.2	29.3	5.6	16
17	28.2	4.7	28.6	5.0	28.6	5.6	28.2	6.2	28.2	4.6	28.8	5.3	29.0	5.2	28.8	4.7	17
18	27.1	4.2	27.2	4.1	27.5	4.5	27.2	4.3	27.4	3.7	27.6	4.1	27.6	4.0	27.5	4.3	18
19	26.0	3.1	26.1	3.3	26.0	3.3	26.7	5.8	26.4	3.1	26.3	3.2	26.5	3.3	26.2	3.1	19
20	25.6	2.6	24.9	2.4	24.9	2.5	26.0	5.0	26.0	2.8	25.4	2.4	25.8	2.7	25.4	2.3	20
21	25.3	2.2	24.5	2.0	24.1	2.1	24.1	3.5	26.3	2.6	24.9	2.4	25.1	2.1	24.9	2.3	21
22	25.1	2.0	24.2	1.7	23.7	1.8	24.1	3.1	25.9	2.0	24.7	2.0	25.2	2.2	24.2	1.9	22
23	24.9	2.0	24.0	1.7	23.3	1.7	25.0	2.8	25.1	1.6	24.8	1.8	24.7	2.1	24.2	2.0	23

Day / Hour	25		26		27		28		29		30		31		Mean		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	24.0	1.8	23.1	1.6	23.0	1.8	23.6	1.7	24.1	1.5	23.6	1.5	24.4	1.2	23.9	1.5	Midnight
1	23.9	1.7	23.0	1.7	22.9	1.8	23.3	1.4	24.1	1.0	23.2	1.0	24.1	1.2	23.7	1.4	1
2	23.9	1.8	23.7	1.9	22.1	1.4	23.0	1.7	23.6	1.3	23.6	1.3	23.5	1.0	23.5	1.3	2
3	23.7	1.6	22.8	1.8	22.4	1.5	22.7	1.5	23.4	0.7	23.6	1.1	23.1	1.2	23.4	1.4	3
4	23.6	1.5	22.8	1.7	22.6	1.6	22.0	1.8	23.2	1.1	23.6	1.3	23.3	1.1	23.2	1.3	4
5	23.7	1.6	22.0	1.6	22.0	1.5	22.3	1.3	22.6	0.9	23.6	2.0	24.0	1.3	23.0	1.3	5
6	23.0	0.4	22.6	1.4	22.0	1.7	21.8	1.5	22.9	1.1	23.9	2.5	24.3	1.8	23.1	1.3	6
7	24.3	1.0	25.1	2.1	24.8	1.8	23.6	1.4	24.1	1.3	25.2	3.2	24.3	1.0	24.9	1.8	7
8	27.0	2.7	27.9	4.0	27.4	4.0	27.0	3.1	24.0	0.9	27.0	4.5	26.6	2.6	26.8	3.0	8
9	28.1	4.0	29.1	5.4	28.6	5.0	28.3	4.6	25.5	2.2	28.2	5.9	27.5	4.2	27.9	4.1	9
10	29.2	5.5	29.9	6.1	29.0	5.4	29.3	5.8	27.1	3.2	29.2	7.0	28.1	4.8	28.8	4.9	10
11	30.0	5.9	30.2	7.0	30.6	7.5	29.0	5.3	24.0	0.9	30.0	7.1	29.1	5.6	29.1	5.1	11
Noon	30.3	6.0	30.4	7.3	30.2	6.4	27.9	3.7	25.1	1.4	30.6	7.6	29.9	6.7	29.4	5.4	Noon
13	30.5	6.5	30.7	7.1	30.6	7.0	29.4	4.5	26.1	2.1	30.1	6.2	29.3	6.9	29.4	5.3	13
14	30.3	6.3	30.9	7.9	29.9	5.1	30.2	5.1	26.6	2.3	29.4	5.7	30.1	7.4	29.3	5.2	14
15	30.1	6.2	30.5	7.5	28.5	5.0	31.0	6.3	27.0	3.5	28.6	5.0	30.2	8.1	29.0	5.1	15
16	28.8	5.6	30.0	7.0	28.1	4.6	29.1	4.1	27.0	4.3	27.8	3.9	29.6	7.4	28.5	4.9	16
17	28.2	5.2	28.9	6.0	28.6	5.4	28.1	3.3	26.6	3.7	27.8	4.2	29.0	6.0	28.0	4.3	17
18	27.2	4.1	28.0	5.1	26.9	3.9	26.6	3.6	25.6	3.3	26.8	3.4	28.0	5.4	27.0	3.7	18
19	26.1	2.9	26.3	3.5	25.9	3.2	25.6	3.9	24.0	1.8	25.7	2.8	26.3	3.7	25.9	3.0	19
20	25.6	2.5	25.6	2.7	25.2	2.5	25.1	3.0	23.8	1.6	25.1	2.1	25.9	3.0	25.3	2.4	20
21	24.8	2.5	24.7	2.4	24.8	2.5	24.4	2.3	23.7	1.5	25.0	2.0	25.3	2.4	24.7	2.0	21
22	24.1	1.9	24.1	2.1	24.5	2.4	24.6	2.4	23.8	1.6	24.7	1.8	24.7	2.2	24.4	1.9	22
23	23.8	1.8	23.3	2.0	23.9	1.9	24.7	2.6	23.9	1.8	24.3	1.4	24.8	2.2	24.2	1.8	23

TABLE XII - DIRECTION AND VELOCITY OF THE WIND AT EVERY HOUR OF THE DAY AS RECORDED BY THE ROBINSON CUP ANEMOMETER DURING JANUARY, 1942

The directions are given in points and the values indicate the direction from which the wind blows counting from North (0), East (8), South (16) and West (24)

The velocities are given in metres per second, using the factor 2.2

(The days on which the Normal Trade Winds are interrupted are indicated by an asterisk ✱)

JANUARY, 1942

Hour \ Day	1		2 ✱		3 ✱		4 ✱		5 ✱		6 ✱		7✱		8		9		10		11		12		13		14		15		16	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Mid-night	11	2.6	10	2.6	11	2.6	11	2.4	11	1.6	03	1.7	30	1.5	10	1.9	08	0.9	09	2.6	09	1.9	09	1.8	09	2.8	10	1.8	08	1.8	10	1.
1	10	3.5	10	2.9	11	2.2	11	3.0	11	1.5	d11	1.7	30	1.3	10	1.0	08	1.1	10	2.7	09	1.2	09	1.2	09	1.9	10	2.8	08	2.0	10	1.
2	11	3.6	11	3.0	11	1.9	12	2.4	11	1.7	11	1.9	30	111	10	1.3	08	1.3	10	2.4	09	1.4	09	1.1	09	2.1	10	2.4	08	2.3	13	2.
3	11	2.8	11	2.7	11	1.8	12	2.8	11	2.0	11	1.3	30	1.3	10	1.1	11	1.6	10	2.8	09	1.7	09	1.3	09	3.4	10	2.4	08	1.8	13	2.
4	11	3.0	11	2.1	11	1.8	12	2.3	11	2.0	11	1.3	30	1.6	10	1.2	11	1.1	10	2.9	09	2.1	09	1.1	09	2.5	09	2.5	08	2.3	12	1.
5	11	3.0	11	2.1	11	2.1	12	2.4	11	2.2	11	1.8	30	1.3	10	1.2	11	1.3	10	2.6	09	2.2	09	1.3	08	3.1	09	2.1	08	2.3	12	1.
6	10	2.7	11	2.0	11	1.6	12	2.1	12	1.9	11	1.6	30	1.1	10	1.3	11	1.1	10	2.7	09	2.8	09	1.2	09	2.0	09	1.3	08	2.3	11	3.
7	10	3.1	11	2.2	11	1.5	11	2.7	12	1.5	11	0.9	30	1.3	10	1.5	11	2.1	10	2.7	09	2.3	09	1.3	09	1.2	09	2.2	08	2.2	11	2.
8	09	4.1	11	3.3	12	3.5	11	3.5	12	2.8	08	1.6	d07	1.2	10	2.1	08	3.1	08	4.8	09	2.4	02	2.3	09	1.8	08	2.5	06	2.9	09	3.
9	10	4.9	10	3.1	11	3.1	11	3.1	11	2.3	08	1.6	10	1.8	07	2.0	09	3.2	09	4.5	08	3.4	03	2.2	09	2.2	07	3.5	07	3.9	08	3.
10	08	5.0	11	3.3	12	3.5	08	1.8	r03	1.9	03	2.2	05	1.2	08	2.1	08	3.8	09	5.1	07	3.9	02	2.7	07	2.0	07	3.8	06	4.4	09	3.
11	09	5.2	12	3.7	13	2.3	07	1.9	10	2.8	08	2.2	r29	1.6	07	2.5	07	4.4	07	4.0	08	3.6	04	2.8	07	5.5	08	4.0	08	4.0	07	3.
Noon	08	5.8	09	3.9	d29	1.8	d28	2.9	07	3.0	d22	4.0	d08	2.3	06	3.0	08	4.4	08	3.4	07	3.1	04	3.8	08	5.6	07	4.5	08	4.2	09	4.
13	09	5.3	d23	2.2	27	3.0	23	2.1	d22	4.1	22	4.2	04	1.9	09	2.9	06	4.2	09	3.2	09	2.9	08	1.9	08	2.7	06	3.8	07	4.3	07	4.
14	07	5.8	22	3.8	01	2.2	25	2.6	26	4.0	25	3.5	d15	2.1	07	2.9	06	3.9	09	1.8	09	3.1	08	2.5	07	3.1	06	3.3	09	4.3	11	4.
15	09	5.9	23	3.4	r13	3.9	25	3.5	26	2.6	30	3.3	08	1.5	07	2.3	09	3.9	08	1.8	09	3.3	10	5.2	07	3.5	06	3.7	08	4.5	08	4.
16	09	5.8	22	3.1	12	3.7	19	3.5	24	2.5	27	2.8	d18	1.3	08	1.5	08	2.8	08	1.2	08	3.7	09	4.5	08	3.9	08	3.9	09	3.7	08	4.
17	12	5.5	23	1.7	13	4.4	21	2.9	26	2.0	01	2.3	r02	1.1	08	1.0	07	2.1	08	1.9	07	2.7	09	3.0	08	3.5	08	3.7	10	4.2	12	4.
18	12	4.4	d12	2.7	11	4.2	20	2.3	01	1.1	01	1.6	05	0.8	08	1.2	06	2.1	12	2.0	09	3.8	09	1.3	08	3.1	08	2.8	11	3.9	09	4.
19	11	3.5	11	3.2	12	3.6	r11	2.2	03	1.2	31	1.1	05	0.7	08	0.7	08	1.7	12	0.9	09	2.5	09	1.7	07	2.3	08	2.8	10	2.6	10	3.
20	11	3.2	12	3.9	12	3.6	11	2.3	03	1.0	31	0.6	05	1.2	08	0.6	07	1.3	15	1.1	09	4.0	09	2.1	07	2.0	08	2.3	10	2.0	09	1.
21	11	3.3	10	3.6	12	3.2	11	2.0	03	1.2	31	0.8	05	1.3	08	0.7	08	0.7	15	1.0	09	2.4	09	1.6	07	2.4	08	2.5	11	2.1	10	1.
22	11	3.0	10	3.9	11	2.9	11	1.8	03	1.3	30	1.4	05	1.1	08	0.7	10	1.8	08	2.6	09	0.8	09	1.3	10	1.9	08	2.7	11	2.1	10	1.
23	12	3.1	10	3.5	11	2.6	11	1.8	03	1.1	30	1.5	10	1.3	08	1.4	10	1.8	09	3.4	09	1.4	09	2.3	10	2.5	08	1.5	10	2.6	10	1.

Hour \ Day	17		18		19		20		21		22		23		24		25		26		27 ✱		28✱		29		30		31		Mean Velocity
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	
Mid-night	10	2.3	11	2.1	08	1.6	10	1.8	09	0.9	08	2.6	10	2.8	10	2.4	11	1.9	08	0.9	11	1.0	11	1.3	11	1.9	10	2.6	09	1.9	1.9
1	08	2.4	11	2.0	08	1.4	10	2.0	09	1.8	08	2.3	10	2.8	10	1.9	11	1.8	08	0.5	11	1.1	10	1.3	12	1.1	10	1.6	09	1.6	1.9
2	10	2.0	11	2.3	10	1.8	10	1.4	09	1.8	08	2.8	10	2.8	08	1.9	11	1.8	08	1.2	11	1.3	13	1.1	12	1.7	10	0.7	09	1.4	1.9
3	10	1.7	10	2.1	10	2.4	10	1.1	10	1.6	08	2.4	10	2.4	08	1.8	11	2.1	11	0.7	11	1.9	18	1.2	12	1.4	10	1.1	09	1.6	1.9
4	10	1.9	10	2.7	10	2.1	10	2.5	10	1.3	09	2.4	09	3.2	10	1.8	12	1.4	11	1.4	11	1.5	17	1.3	12	1.1	10	1.3	12	1.4	1.9
5	10	1.2	12	2.8	10	2.6	10	2.1	09	1.2	09	3.1	09	2.6	10	2.2	09	1.9	11	1.3	11	1.3	17	1.8	12	1.5	11	2.1	12	2.2	2.0
6	11	2.2	12	2.1	10	2.0	10	1.9	09	1.4	09	2.3	09	2.2	10	1.8	11	1.9	11	1.6	11	1.1	17	1.5	11	2.8	11	1.1	14	2.0	1.9
7	10	2.4	12	2.1	10	2.3	10	1.7	10	1.8	09	2.1	10	2.2	10	1.9	11	1.4	11	1.0	11	1.5	12	1.4	11	2.2	11	0.2	14	2.0	1.9
8	06	3.3	10	4.0	09	3.4	08	3.5	10	3.0	10	3.1	09	3.8	08	3.4	11	2.4	11	2.7	12	3.8	11	2.8	08	2.1	14	1.5	12	4.0	3.0
9	06	3.4	08	4.1	06	3.3	07	3.3	10	3.7	08	3.3	08	4.4	09	4.2	08	2.1	11	3.9	10	2.7	11	3.3	10	2.7	12	3.7	11	5.7	3.3
10	09	3.7	06	4.3	07	4.1	08	3.2	10	4.4	07	4.3	08	4.2	07	4.8	08	3.1	12	3.5	10	3.7	11	3.5	12	3.0	11	3.3	12	5.0	3.5
11	07	3.5	08	4.3	08	4.4	08	3.9	09	4.8	06	3.4	08	4.0	09	4.4	09	3.2	12	4.4	09	3.6	12	3.0	09	2.5	13	3.3	11	4.8	3.6
Noon	09	4.5	06	4.2	08	4.4	09	3.8	09	4.4	07	4.0	07	4.2	06	4.4	07	4.0	11	4.0	12	4.3	d23	3.0	05	2.7	10	3.2	12	5.4	3.9
13	08	5.1	05	4.1	08	4.3	06	4.1	09	4.3	07	4.1	09	4.0	06	4.6	07	4.4	13	4.2	11	2.8	24	3.6	10	3.8	12	2.3	11	4.5	3.6
14	06	2.8	06	4.1	08	4.1	09	4.0	08	4.3	07	3.6	08	4.1	08	4.4	06	4.2	08	4.8	d28	2.2	25	4.0	08	4.0	15	2.2	13	4.6	3.6
15	08	3.9	06	4.1	07	4.2	08	4.2	09	4.8	07	3.9	11	4.3	09	4.1	07	3.7	12	4.7	r13	4.5	26	3.4	08	4.0	12	3.8	14	3.6	3.8
16	07	4.0	08	3.7	08	4.2	08	4.1	07	4.9	07	3.2	09	4.8	09	4.2	10	3.2	11	4.4	12	4.0	30	3.4	11	4.3	14	2.3	11	4.0	3.6
17	07	4.4	06	3.8	07	3.7	08	3.4	07	4.4	08	3.1	11	4.8	08	4.3	08	2.4	10	4.4	13	4.6	32	1.8	11	4.1	10	3.8	12	3.3	3.3
18	09	4.2	08	3.1	08	3.3	06	4.0	08	3.7	08	3.5	10	4.1	09	3.9	08	2.6	11	3.6	10	3.9	d13	2.4	12	4.3	12	4.1	15	3.9	3.1
19	09	3.1	08	2.3	10	3.5	07	1.6	09	3.9	10	2.8	09	3.2	11	3.1	08	1.9	11	2.7	11	2.8	13	3.3	11	2.7	10	3.2	15	2.3	2.5
20	09	2.2	08	2.3	10	2.6	07	2.6	07	2.4	10	1.5	10	3.1	10	2.1	08	1.4	11	1.5	10	2.4	13	2.7	12	3.2	10	2.2	15	1.6	2.1
21	10	2.7	08	1.5	10	2.4	08	3.0	09	3.1	10	1.5	11	2.7	11	2.1	08	1.2	11	1.5	10	1.4	13	3.1	09	3.8	10	1.3	15	1.2	2.0
22	10	1.9	08	2.3	10	1.3	08	2.6	08	2.8	10	2.1	11	2.5	11	2.1	08	1.1	11	0.6	10	2.7	13	2.3	10	3.7	10	1.5	14	0.8	2.0
23	11	3.0	08	2.5	10	1.4	06	2.1	08	3.1	10	2.8	10	2.6	11	1.8	08	0.7	11	0.7	10	1.4	13	2.2	09	3.6	10	2.4	14	1.1	2.1

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS) JANUARY, 1942

Hour	Force (0-12) 8 or above	4 to 7	0 to 3	Direction N	NNE	NE.	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
3	-	-	31	-	-	1	-	7	10	12	-	-	-	-	-	-	-	-	1
9	-	1	30	-	-	-	2	15	6	7	-	-	-	-	-	-	-	-	-
15	-	1	30	-	-	-	2	17	1	5	1	-	-	-	-	2	2	-	1
21	-	-	31	1	-	2	-	11	7	8	-	2	-	-	-	-	-	-	-
Totals	-	-	-	1	-	3	4	50	24	32	1	2	-	-	-	2	2	-	2

TABLE XIV a - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY FOR JANUARY, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	0.5	..	..	..	..	..	..	..	..	..	1.0	..	..	..	..	..	0.4	..	..	..	..	..	..	..	..	..	..	..	1.0	..	..
2	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..
3	..	..	2.6	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	1.6	..	..
4	..	..	..	..	..	..	..	..	..	..	..	..	1.3	..	0.1	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	3.8	..	..	..	..	..	..	..	0.5	..	..	..	0.1	..	..	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	3.1	..	..	..	0.1	..	..
7	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	1.1
8	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.9	..	..	..	..	..	..	1.4	..	..
9	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	0.3	..	..	0.1	..	..	..	0.4	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	0.6	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.7	..	..
12	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.7	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..
14	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	0.1	..	..	..	..	..	..	..	1.0	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..
17	..	..	..	..	..	..	..	..	..	1.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..
18	..	..	..	..	..	..	..	..	..	9.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	3.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	0.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	0.1	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..
24	..	0.2	..	..	..	..	..	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..

TABLE XIVb - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS FOR JANUARY, 42

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	..	0.2	0.2	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	0.8	..	..	..	..	..	..	..	..	..	..	1.5	..	..
2	0.1	..	0.4	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	0.1	..	..	..	..	..	..	..
4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.2	..	..
5	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4.1	..	0.5
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	0.1	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	0.2
8	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..
10	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..
11	..	..	..	..	..	..	..	..	..	..	..	0.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	1.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	0.2	0.2	0.9	..	0.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..
14	..	..	..	..	..	..	..	0.2	3.0	0.1	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.9	..	1.0	..	..
15	..	..	..	..	..	..	..	0.1	1.4	0.3	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3.0	..	..	..	..
16	..	..	..	..	..	..	..	1.8	1.3	0.4	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..
17	..	..	..	..	..	..	..	0.3	0.2	..	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	0.1	..	..
18	..	..	..	..	..	..	..	..	..	3.6	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	0.3	..	7.2	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	0.5	..	0.4	..	2.7	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	0.2	0.6	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..
22	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..
24	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE XV - TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR JANUARY, 1942

RIVER SYSTEM	STATIONS	Approximate Altitude in feet	Total Fall		Normal in Inches	Number
			Inches	Millimetres		
1	Mare Seche	20	2.13	34.1	8.23	5
	St Antoine	50	2.72	69.1	6.98	7
	Bel Mont	50	3.00	76.2	7.69	6
	Poudre d'Or	20	4.77	121.2	7.09	6
	Mon Loisir S.E.	300	3.50	88.9	8.18	9
	Forbach	300	6.90	175.3	8.43	8
	Couroupa	...	3.24	82.4	11.33	5
	Labourdonnais	290	2.48	63.0	8.96	6
	Mapou Water Works Office	...	2.77	70.4	...	3
	Beau Sejour	300	2.81	71.4	9.51	9
	Mont Piton	650	2.58	65.5	10.47	7
	Mon Choix	700	2.77	70.4	10.42	7
	Antoinette	640	4.31	109.5	9.98	13
	Mon Songe	620	3.44	87.4	10.08	12
	Botanical Gardens	325	1.85	46.9	9.59	14
	The Observatory	179	1.83	46.5	8.16	17
	Solitude	175	2.00	50.8	6.96	3
	St Andre (Cour)	90	1.95	49.5	7.79	3
	La Nicoliere	...	4.39	111.5	13.17	18
	California	...	3.95	100.3	9.76	10
	Australia	...	3.84	97.5	...	8
2 & 3	Union Regnard Flacq S.E.	600	4.53	115.1	9.87	12
	Constance d'Arifat L.S.	100	2.03	51.6	8.94	10
	Rich Fund	600	5.14	130.6	10.96	12
	La Joffrette	...	4.10	104.1	...	12
	Belle Vue (Allendy)	...	3.64	91.4	11.28	11
4	Sans Souci	900	4.42	112.3	16.53	17
	Beau Champ (G.R.S.E.)	20	5.08	129.0	8.12	17
	Olivia	400	5.20	132.1	11.33	16
	Trois Ilots	...	4.79	121.7	...	16
	Belle Rive	400	6.11	155.2	14.28	23
	Sebastopol	700	...	...	...	..
	Bonne Veine	400	4.53	115.1	18.33	20
5	Rose Belle	850	5.86	148.8	18.04	21
	New Grove	650	5.13	130.3	...	19
	Mon Tresor	...	7.30	185.4	...	9
	Mon Desert Carie	75	3.25	82.6	7.85	8
	Ferney	20	4.23	107.4	12.35	10
	Sauveterre	...	2.14	54.4	...	11
	Rivoli	1300	5.36	136.1	15.63	20
	La Flora	1050	4.65	118.1	17.58	16
	Riche Bois Britannia	650	2.85	72.4	15.21	11
6	Britannia Estate	700	4.38	111.3	13.33	15
	Savannah Mill	200	5.15	130.8	10.89	13
	St Aubin	300	5.30	134.6	10.76	11
	St Avold	900	3.69	93.7	14.05	15
	Colmar	400	3.96	100.6	12.85	13
	Union S.E.	...	7.08	182.4	9.86	7
	Fontenelle	320	5.71	145.0	10.77	8
	Choisy	200	5.12	130.0	10.35	13
	Beau Bois	...	5.70	144.8	10.73	12
	Bel Air	...	5.05	128.3	9.67	8
	St Felix	...	6.00	152.4	...	8
7, 8, 9 & 10	Bel Ombre	40	6.51	165.4	9.25	15
	Beau Champ B. du Cap	70	4.37	111.0	8.66	13
	Frederica	...	4.85	122.9	...	15
	Pierrefonds	...	3.71	94.2	10.51	..
	Ste. Marie	...	5.47	138.9	...	13
	Hussonia	...	...	...	...	..
11	Curepipe Gardens	1840	4.44	112.6	16.71	14
	Mare aux Vacoas G .E.	1850	4.49	115.8	19.51	15
	Mare aux Vacoas Arnaud	1830	6.34	161.0	17.85	22
	La Marie Filter Beds	1700	6.15	156.2	14.87	14
	Sophie	...	...	...	...	..
	Reunion	1420	3.14	79.5	13.10	10
	Aerological Station	1393	2.24	57.0	13.40	20
	Phoenix	...	2.10	53.3	12.76	4
	Quatre Bornes	...	1.69	42.9	...	7
12	Quatre Bornes (Board)	1090	1.52	38.6	...	4
	Le Reduit Dep.of Agric.	1000	1.83	46.6	10.00	21
	Alma	1460	3.96	100.6	17.88	15
	Bagatelle	1250	2.75	69.9	11.66	9
	Highlands	1300	2.00	50.8	14.10	9
	Trianon	950	1.95	49.3	10.30	7
	Val Ory	1100	...	...	10.65	..
	Bassin	...	2.49	65.2	10.56	5
	Hermitage	1450	3.90	99.1	17.16	9
	Ebene	...	2.29	58.2	...	8
	Bega	...	2.71	68.8	...	8
	Mon Reve	...	2.15	54.6	...	8
	Mont Pevril	...	1.77	45.0	...	8
	Minissy	1150	1.60	40.6	12.30	8
	Plaisance	...	3.06	77.7	...	7
	La Ferme	350	3.08	78.2	8.52	9
13	Line Barracks	...	1.18	30.0	...	7
	Richelieu T. Res. Stn.	...	1.75	44.4	...	..

TABLE XV: - PILOT BALLOON OBSERVATIONS FOR THE MONTH OF JANUARY, 1942

Date	Time	Surface		250 metres		500 metres		750 metres		1,000 metres		1,500 metres		2,000 metres		2,500 metres		3,000 metres		3,500 metres		4,000 metres	
		Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity
		0	m.p.s.	0	m.p.s.	0	m.p.s.	0	m.p.s.	0	m.p.s.	0	m.p.s.	0	m.p.s.	0	m.p.s.	0	m.p.s.	0	m.p.s.	0	m.p.s.
1	08.53	090	3.0	090	3.1	095	6.4	104	8.5	101	10.[illegible]	104	7.3										
2	09.20	090	1.7	098	2.7	096	3.1	101	6.6	09[illegible]	8.2	090	6.8	093	8.9								
3	09.14	313	2.3	216	0.5	138	3.0	132	4.4	133	5.2	118	6.9										
4	09.10	288	3.3	188	0.7	144	1.3	149	1.7	170	2.2	246	2.5										
5	09.12	034	1.1	083	0.8	141	1.4	157	3.0	204	2.9	233	4.2										
6	09.09	310	3.4	022	1.6	079	4.3	099	6.6	107	6.3	108	6.5										
7	[illegible]	308	3.3	023	1.5	049	1.9	081	2.6	111	3.1	105	[illegible].8										
8	...	...	...	...	...	...	...	...	...	...	...	...	...										
9	...	...	...	...	...	...	...	...	...	...	...	...	...										
10	09.03	074	2.9	077	4.5	092	6.6	089	7.5	079	7.7	036	4.6										
11	[illegible]	073	6.7	076	8.1	077	20.5	071	8.6	042	7.2	043	9.9	041	9.0	024	9.7						
12	[illegible]	041	6.9	041	3.0	057	5.2	050	7.3	053	8.9	059	7.1										
13	...	...	...	...	...	...	...	...	...	...	...	...	...										
14	09.23	070	7.2	082	13.3	081	16.4	078	18.9	077	10.5	068	3.5										
15	[illegible]	095	7.6	080	3.5	075	5.5	081	10.5	071	9.0	...	...										
16	[illegible]	087	5.8	090	6.2	084	5.2	094	7.5	096	6.8												
17	[illegible]	078	5.3	076	12.1	079	11.1	081	9.4	080	18.3	007	1.6										
18	...	...	...	...	...	...	...	...	...	...	...	...	...										
19	09.45	099	10.4	100	5.9	070	4.0	065	6.3	075	8.6	079	4.7										
20	09.16	084	5.7	097	3.2	094	6.5	089	8.3	081	8.6	100	7.2	101	8.7								
21	09.15	093	9.5	100	6.2	104	4.1	095	9.6	097	5.2	101	8.8										
22	09.03	075	5.1	083	7.8	080	11.1	080	8.3	078	9.9	079	6.9										
23	09.04	084	7.9	086	9.1	082	7.5	084	8.4	088	5.7	098	8.2										
24	09.35	071	3.7	083	1.7	092	2.7	079	3.6	077	4.4	074	4.8										
25	[illegible]	101	1.5	082	2.9	074	5.6	076	5.8	086	4.3	086	4.6										
26	08.56	241	1.8	129	4.1	114	4.5	118	6.9	125	7.1	111	7.7										
27	09.16	133	3.5	131	7.9	154	4.3	121	2.3	151	2.1	121	7.2	127	11.0	130	15.4						
28	09.31	280	3.6	222	1.2	174	1.8	160	1.4	120	7.0	135	3.4	158	3.8								
29	09.24	07[illegible]	3.0	081	5.5	092	8.9	092	10.1	110	10.6	129	7.3	125	7.0								
30	09.11	278	1.5	115	1.4	114	2.5	11[illegible]	4.0	129	5.5	097	8.1										
31	09.21	132	5.1	126	3.1	129	3.8	126	7.2	120	7.1	118	7.2										

MAURITIUS

ROYAL ALFRED OBSERVATORY

LATITUDE 20°51' 39"S., - LONGITUDE 3h50m 12.6"

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

FEBRUARY, 1942

N.R.Mc CURDY, B.Sc. F.R. MET. SOC.

DIRECTOR

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TABLE I - RESULTS OF MAGNETICAL OBSERVATIONS MADE DURING THE MONTH OF FEBRUARY, 1942

Month and Day 1942	Mean Declination (West)	Mean Horizontal Force (C.G.S. Units)	Mean Vertical Force (C.G.S. Units)	Daily Range + Declination	Daily Range + Horizontal Force (Unit 1 γ)	Daily Range + Vertical Force (Unit 1 γ)
JAN.						
1	14° [illegible]	[illegible]2457	.29955	12.6	30	35
2	[illegible]	437	960	8.5	52	15
3	16.2	427	960	4.3	13	[illegible]1
4	16.3	445	957	9.8	38	[illegible]
5	16.7	425	957	11.0	77	37
6	18.1	421	969	10.0	96	29
7	17.4	446	964	8.8	27	29
8	17.0	433	959	11.5	19	36
9	16.7	439	951	11.8	48	39
10	16.6	444	957	10.5	41	26
11	...	...	959	...	..	15
12	...	...	956	...	..	18
13	16.2	453	950	8.2	36	32
14	16.7	446	954	9.5	35	23
15	...	...	...	...	..	..
16	16.6	439	954	14.0	38	37
17	16.8	434	953	12.0	26	33
18	16.6	441	953	13.0	38	47
19	16.6	...	954	8.3	..	18
20	17.4	438	953	11.0	54	26
21	17.4	423	957	8.2	37	27
22	17.1	425	958	8.0	38	17
23	18.5	394	959	13.5	130	49
24	17.1	388	958	11.2	124	45
25	17.0	404	956	9.8	105	4[illegible]
26	16.8	422	954	13.5	40	51
27	17.0	424	952	11.7	54	4[illegible]
28	15.1	412	959	15.7	125	52
Mean	14° 16'.81	.22429	.2[illegible]57	10'.66	55.0	31.9

T = .37424 : Mean Dip = 15° 10'.65 : X = .21737 : Y = - .05532 : Z = .29957

+ = The daily range is the difference between the greatest and least hourly values

Description of the Principal Magnetic Disturbances

Declination : 1st second half and 2nd. Slightly disturbed throughout. Small pulsations superposed on some irregular features of minor character.
5th : A moderately disturbed period starts with very gradual commencement and ends during the second half of 7th. Sharp positive wave (40 γ) between 21h 40m and 23h on 5th. Large irregular fluctuations during second half of 6th. 10th second half - slightly disturbed. 15th - very moderately disturbed. 20th & 21st - very slightly disturbed in parts. 23rd. Small bay disturbance between 4h 20m and 6h. At 17h 20m sudden commencement of a fairly intense disturbance ending during the first hours of 25th. Large fluctuations at first with very minor irregular pulsations superposed. Absolute range 140 γ . 25th - trace quiet between 4h and 13h. Very slightly disturbed during second half.
26th : two important bays (+ 35 γ) between 0h and 4h.
27th : small solar flare effect at 19h 20m.
28th : disturbed during second half. Sharp sudden increase (31 γ) at 16h followed by considerable decrease in force between 15h and 21h. Absolute range 137 γ.

TABLE II - RESULTS OF ABSOLUTE DETERMINATIONS OF THE MAGNETIC ELEMENTS DURING THE MONTH OF [illegible]ARY, 1942

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d. h. m.	° '	d. h. m.		d. h. m.	° '	
6.14. 49	14.12. 5	4. 9.52	.22453	6. 14. 59	53.13.56	.29957
10.14. 43	14.10. 6	7. 9.45	.22423	10. 14. 55	53.08.5[illegible]	.29940
17.14. 05	14.11. 3	11. 9.48	[illegible]	17. 14. 17	53.08.9	.29934
27.14. 50	14.11. 3	16. 9.37	.22426			
		19. 9.51	.22457			
		25. 9.26	.22407			
		28. 9.37				

TABLE III .. MAGNETIC DECLINATION (WEST) AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

FEBRUARY, 1942

14° +

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	16.2	16.3	16.3	16.3	16.3	16.7	15.5	16.5	16.7	16.7	18.0		16.7	16.3		17.0	Midnight
1	16.5	17.0	16.5	16.5	16.5	17.0	16.5	17.0	16.7	16.7	17.5		17.0	17.0		17.0	1
2	16.7	17.0	17.0	16.7	16.7	17.3	17.5	17.0	16.5	16.5	17.0		17.5	17.3		17.3	2
3	17.0	17.5	17.5	17.3	17.0	17.7	18.0	17.5	16.5	17.0	16.5		18.0	17.7		18.0	3
4	17.5	19.0	17.3	17.5	17.0	18.5	18.0	17.5	17.3	17.0	16.3		18.3	18.0		18.0	4
5	18.0	19.5	17.7	18.3	18.0	19.5	18.5	18.0	17.7	17.7	16.7		19.0	18.3		18.0	5
6	18.5	20.0	17.7	19.0	18.5	20.0	17.0	18.3	18.0	17.5	17.[illegible]		20.0	18.5	19.7	18.3	6
7	20.5	20.5	18.3	20.3	21.0	21.5	19.0	20.0	19.0	18.0	18.[illegible]		20.5	20.5	23.0	20.0	7
8	2[illegible]	20.0	18.3	20.3	22.0	22.0	21.0	22.0	20.5	20.0	19.0		20.3	22.0	25.5	23.0	8
9	2[illegible]	19.7	17.0	20.0	22.3	22.0	22.3	23.5	22.5	21.5	20.0	18.5	19.5	20.5	23.0	23.0	9
10	[illegible]	18.5	15.0	18.0	18.5	20.5	21.5	22.0	22.5	21.0	19.7	18.3	17.0	18.0	16.0	20.0	10
11	[illegible]	17.0	14.0	15.0	17.7	19.5	20.0	19.0	20.5	19.5	19.0	17.0	14.7	16.0	10.5	15.0	11
Noon	13.0	15.0	14.3	13.0	17.0	19.5	18.3	16.5	18.0	17.5	18.0	15.7	14.0	15.3	09.0	[illegible]	Noon
13	10.0	13.0	14.0	11.0	15.0	15.0	16.5	13.5	14.5	14.5	16.5	15.3	12.7	14.0	09.0	[illegible]	13
14	08.7	12.0	14.3	10.5	12.0	12.0	15.0	12.5	12.3	12.3	15.5	15.0	12.3	12.7	09.5	09.0	14
15	09.5	13.7	14.0	12.0	11.5	13.0	13.5	12.0	10.7	11.0	14.7	15.0	12.7	12.5	10.3	12.0	15
16	10.5	14.3	14.5	14.0	11.3	15.0	13.7	12.7	11.0	11.0		14.5	13.0	14.5	12.0	14.0	16
17	12.5	14.5	15.5	16.0	15.0	16.5	15.0	15.0	13.5	13.5		14.3	14.0	16.0	15.0	16.0	17
18	14.0	16.0	16.5	16.7	15.0	17.0	16.3	16.0	15.0	15.0		14.5	14.3	16.3	16.3	17.0	18
19	15.0	17.5	16.7	16.5	15.5	18.0	16.5	16.5	16.0	15.7		15.5	15.0	16.3	16.3	16.5	19
20	15.3	17.5	16.5	16.3	15.5	19.0	16.3	16.0	16.0	16.3		15.5	15.0	16.0	16.3	16.5	20
21	[illegible]	16.7	16.3	16.3	16.3	19.0	16.7	16.3	16.5	17.0		16.0	15.5	16.0	16.5	16.7	21
22	[illegible]	16.3	16.7	16.5	18.0	18.7	16.7	16.5	16.7	17.0		16.3	15.5	16.3	17.3	16.5	22
23	[illegible]	16.3	16.5	16.7	17.0	19.0	17.0	17.0	16.7	18.0		16.5	16.0	16.0	18.0	16.7	23

14 +

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day / Hour
Midnight	16.7	16.7	16.7	16.7	18.0	17.0	18.7	20.5	17.5	18.5	17.7	18.0				17.0	Midnight
1	17.0	17.0	17.0	17.0	17.3	17.3	18.5	20.0	17.5	16.0	17.5	18.7				17.1	1
2	17.5	17.3	17.0	17.0	17.5	17.5	18.3	18.5	18.3	18.0	17.[illegible]	18.7				17.4	2
3	17.7	17.5	17.5	17.5	17.0	16.7	17.0	19.0	17.7	17.3	16.7	18.0				17.5	3
4	18.0	18.0	17.5	17.7	16.0	16.5	17.0	18.5	17.0	16.0	17.0	15.5				17.4	4
5	18.3	18.0	17.5	18.3	17.5	16.3	16.5	17.0	16.7	17.7	17.7	18.0				17.9	5
6	18.0	18.3	17.5	18.0	17.3	16.7	17.5	15.5	16.0	18.5	18.0	18.3				18.0	6
7	19.0	18.5	17.5	19.0	18.5	18.0	18.7	18.0	18.0	20.0	19.5	17.5				19.[illegible]	7
8	20.5	21.0	19.5	20.5	20.0	20.0	20.0	20.7	20.5	22.5	20.7	18.5				20.[illegible]	8
9	23.0	22.7	20.3	22.0	22.5	20.7	22.0	22.7	22.3	23.5	22.7	19.7				21.5	9
10	22.5	22.5	20.0	23.0	22.7	20.3	24.7	22.0	22.3	22.3	21.0	19.0				20.6	10
11	19.0	20.0	18.5	22.0	21.0	19.5	21.0	20.0	19.0	19.5	18.0	16.0				18.4	11
Noon	14.5	16.0	16.5	20.0	18.5	18.5	18.0	17.5	16.5	15.0	17.0	16.5				6.[illegible]	Noon
13	12.0	11.5	14.5	16.0	15.5	16.0	14.0	12.5	13.0	10.5	13.5	11.0				13.[illegible]	13
14	11.0	09.7	12.3	12.5	15.0	14.0	11.5	12.0	12.5	10.0	11.0	07.5				11.8	14
15	12.0	10.0	12.0	12.0	14.7	12.7	12.0	11.5	12.7	11.0	08.3	11.0				11.9	15
16	13.0	11.0	12.7	13.0	14.5	13.5	13.0	12.0	13.5	12.5	12.7	0[illegible].0				12.[illegible]	16
17	15.0	15.0	14.0	15.0	15.5	15.5	15.5	14.5	15.5	15.0	15.0	10.0				14.7	17
18	16.5	15.5	16.0	16.0	16.7	16.3	17.5	15.7	16.0	16.0	16.0	14.7				15.9	18
19	16.5	16.3	16.3	16.5	16.5	17.0	20.0	16.0	17.0	16.5	16.5	15.0				16.5	19
20	16.5	16.5	16.5	16.7	16.7	17.3	20.0	16.5	16.7	16.7	16.7	16.0				16.6	20
21	16.5	16.5	16.7	18.0	16.7	17.5	24.0	17.0	17.5	16.7	17.0	18.0				17.0	21
22	16.7	16.5	16.7	17.0	17.0	17.7	23.3	17.0	17.5	16.7	18.0	17.0				17.1	22
23	16.7	17.0	16.5	16.7	17.0	18.0	25.0	17.0	17.5	17.5	18.7	17.0				17.3	23

TABLE IV - MAGNETIC HORIZONTAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature in the Magnet Chamber)

FEBRUARY, 1942

.18000 + (C.G.S. UNIT)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	447	444	426	430	443	420	419	429	437	438	421		443	447		419	Midnight
1	448	443	425	432	445	455	420	429	435	437	423		445	446		430	1
2	447	445	429	431	452	422	408	428	435	441	423		447	445		432	2
3	445	452	425	433	457	430	405	429	437	440	43[illegible]		446	448		432	3
4	449	445	427	437	455	410	431	436	443	433	43[illegible]		452	449		440	4
5	452	445	429	439	456	443	413	431	435	447	43[illegible]		450	451		440	5
6	451	451	428	441	457	437	425	431	437	449	432		441	450	437	440	6
7	450	457	430	444	455	450	422	431	445	452	437		447	448	433	443	7
8	452	462	433	447	453	461	419	430	452	453	440		445	447	425	440	8
9	460	459	430	452	435	447	422	431	457	452	440	449	460	449	417	433	9
10	466	461	430	455	430	441	420	432	469	456	439	443	472	455	423	440	10
11	469	461	423	465	423	433	407	431	466	457	442	443	477	462	440	450	11
Noon	470	450	434	467	417	423	401	430	456	451	447	443	475	459	450	452	Noon
13	475	433	432	468	425	427	406	433	435	447	441	438	477	460	447	457	13
14	472	427	426	466	427	412	407	431	426	449	429	443	463	453	450	457	14
15	471	428	423	453	410	390	407	432	427	447	421	429	445	450	452	447	15
16	462	427	423	450	403	390	414	442	421	448		435	445	442	431	446	16
17	470	422	423	448	393	395	417	447	427	431		439	443	441	417	437	17
18	455	412	424	443	380	405	420	442	428	450		442	443	440	425	431	18
19	451	410	421	437	390	415	422	427	433	447		439	447	427	422	423	19
20	450	422	422	439	397	420	423	434	431	435		440	447	430	433	430	20
21	450	410	425	436	400	390	427	435	434	440		440	447	435	427	432	21
22	454	413	429	437	410	386	428	436	437	426		441	449	437	416	435	22
23	449	420	429	433	410	365	428	436	437	416		440	[illegible]	437	415	435	23

.22000 (C.G.S. UNIT)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	Mean				Hour \ Day
Midnight	435	431	433	443	419	420	405	315	400	411	410	403	422				Midnight
1	433	433	434	442	420	419	402	345	407	435	412	400	427				1
2	449	436	437	439	426	419	403	380	395	415	417	401	427				2
3	435	438		441	427	419	412	365	315	430	434	415	425				3
4	437	[illegible]		442	435	420	420	365	407	430	433	431	432				4
5	437	[illegible]		448	432	423	432	375	412	417	432	420	433				5
6	434	437		449	440	426	425	391	413	419	433	417	434				6
7	440	442		452	442	427	427	390	406	423	432	420	436				7
8	432	443	450	456	435	431	433	301	403	417	419	420	433				8
9	425	435	445	465	425	439	425	393	405	410	415	413	435				9
10	427	436	460	457	425	438	417	402	410	415	420	412	437				10
11	447	450	460	445	425	440	410	415	4111	425	430	423	439				11
Noon	447	460	463	442	419	440	405	405	412	437	437	425	438				Noon
13	442	469	467	440	405	427	417	390	420	450	447	435	438				13
14	435	465	465	441	406	430	420	417	412	447	447	445	437				14
15	430	455	463	442	413	425	418	425	411	435	443	432	432				15
16	423	450	451	435	420	427	420	419	409	425	435	460	431				16
17	430	437	453	427	418	423	415	408	403	417	425	425	426				17
18	430	431	442	429	412	425	400	405	412	412	417	443	425				18
19	430	432	437	419	417	423	350	399	405	415	415	320	418				19
20	430	432	437	411	420	420	303	391	407	415	423	335	415				20
21	430	433	437	420	418	410	305	389	407	415	410	355	415				21
22	431	432	437	417	419	409	423	393	413	415	403	387	417				22
23	433	440	432	420	421	405	310	398	407	410	393	393	415				23

TABLE V - MAGNETIC VERTICAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature in the Manget Chamber)

FEBRUARY, 1942

29000 + (C.G.S. UNIT)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	966	961	963	963	961	969	969	964	961	959	963	964	956	956		960	Midnight
1	964	961	962	963	960	967	968	965	962	959	962	963	957	957		957	1
2	963	961	961	962	960	968	971	965	962	960	961	964	957	957		957	2
3	963	959	961	961	959	967	972	965	962	960	961	965	958	957		958	3
4	963	962	961	961	958	965	969	963	962	960	960	964	959	958		957	4
5	962	962	962	961	959	964	969	962	962	959	961	964	960	959		959	5
6	963	964	962	962	959	966	966	962	961	959	961	965	961	959	961	960	6
7	967	963	965	966	961	970	969	967	961	961	963	963	964	963	970	963	7
8	966	961	965	961	963	973	975	971	963	967	965	961	955	967	971	966	8
9	961	965	961	957	960	982	978	971	964	965	967	955	946	963	950	961	9
10	949	965	956	950	955	979	975	965	960	963	961	949	937	950	914	943	10
11	939	961	955	947	955	970	975	959	943	957	959	948	931	942	904	933	11
Noon	935	955	955	943	950	961	970	948	933	957	955	949	934	949	912	929	Noon
13	932	950	955	942	938	955	959	935	925	953	951	947	933	940	923	931	13
14	934	951	955	944	933	953	951	936	926	942	952	948	935	939	938	934	14
15	939	955	954	949	940	961	949	943	927	941	951	950	939	941	944	950	15
16	945	956	957	953	951	973	950	949	926	944	950	949	943	943	952	954	16
17	951	959	961	957	957	976	951	955	937	953	954	951	949	949	961	959	17
18	956	960	962	959	960	971	955	960	947	956	957	953	948	951	960	960	18
19	958	963	964	959	961	968	957	960	950	956	960	957	952	953	957	959	19
20	959	963	963	959	961	970	959	959	953	957	960	956	953	956	958	958	20
21	959	964	963	960	967	970	961	960	955	960	962	957	954	957	959	959	21
22	959	965	964	961	970	971	962	961	957	959	964	958	954	959	961	959	22
23	960	965	964	961	965	973	963	961	958	961	963	958	956	959	962	959	23

.22000 + (C.G.S. UNIT)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	Mean				Hour \ Day
Midnight	959	959	959	955	959	960	961	976	963	963	960	959	962				Midnight
1	958	959	957	955	959	960	961	975	962	954	960	960	961				1
2	957	957	956	955	959	960	961	967	965	961	960	960	961				2
3	956	956	954	954	957	959	960	970	962	961	959	961	961				3
4	958	955	954	953	955	959	959	971	962	956	959	956	960				4
5	958	955	954	953	957	958	957	971	963	960	961	961	961				5
6	959	957	953	952	957	958	959	969	961	961	961	961	961				6
7	961	959	955	955	960	961	961	970	964	965	962	962	963				7
8	970	967	961	960	966	965	965	973	971	969	967	964	966				8
9	970	970	961	961	971	967	969	970	967	966	965	965	965				9
10	959	971	960	961	970	961	963	955	959	959	950	957	959				10
11	939	951	958	954	963	960	954	943	947	947	939	945	951				11
Noon	931	939	952	949	953	954	946	933	935	930	934	936	945				Noon
13	932	928	946	939	944	952	935	931	931	918	928	935	939				13
14	932	924	943	936	944	953	934	935	934	925	930	930	939				14
15	935	931	945	935	945	950	936	937	939	937	934	939	943				15
16	943	940	948	941	949	955	946	945	946	947	938	948	948				16
17	951	952	951	951	951	957	953	951	955	957	947	964	954				17
18	955	953	955	955	956	957	955	957	957	960	953	975	958				18
19	955	953	954	955	956	957	962	959	959	959	955	972	958				19
20	956	954	954	957	957	957	971	961	959	959	955	930	959				20
21	958	956	955	961	957	959	983	962	959	959	957	932	961				21
22	959	958	956	959	959	960	974	963	960	959	960	973	967				22
23	959	959	956	960	960	961	977	963	959	960	961	970	962				23

TABLE VI - RESULTS OF METEOROLOGICAL OBSERVATIONS MADE AT THE AEROLOGICAL STATION, VACOAS (424.5 metres above mean sea level) DURING THE MONTH OF FEBRUARY, 1942

Month and Day 1942	Observations at 10 a.m.									Temperature of the Air							Rainfall		Duration of Bright Sunshine	Percentage of Possible Sunshine
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat. = 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0 - 10)	3h	9h	15h	21h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Casella Pluviograph	Duration		
FEB.	mbs	°C	°C	°C	%	mbs	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms	mins	hrs	%
1	965.6	27.6	[illegible]	[illegible]	58	21.4	CALM		3	[illegible]	27.2	27.0	23.3	30.3	20.3	[illegible]	...	...	7.8	60
2	966.9	27.1	[illegible]	22.1	74	26.6	CALM		9	21.2	26.9	24.3	22.8	30.0	20.8	[illegible]	9.3	60	3.5	27
3	967.8	26.4	3.0	21.9	77	26.3	40	2.2	7	21.4	26.6	28.4	23.4	30.3	22.8	7.5	...	...	10.4	81
4	967.6	26.4	4.2	20.0	68	23.4	55	0.9	5	22.6	26.3	28.0	22.5	29.6	22.0	7.6	...	...	10.7	83
5	967.7	26.2	3.8	20.4	71	24.0	75	4.5	7	21.5	25.6	28.1	21.8	28.8	21.1	7.7	1.5	35	10.6	82
6	968.6	26.5	3.6	21.1	72	25.0	60	3.1	7	21.3	25.4	27.0	21.7	28.8	21.1	7.7	0.8	10	[illegible]	73
7	967.7	24.6	3.4	19.3	72	22.4	CALM		9	20.7	23.4	27.4	21.7	29.2	20.3	8.9	1.1	25	[illegible]	68
8	965.9	26.9	3.9	21.1	70	25.0	70	3.6	5	21.7	26.5	27.7	22.5	30.4	21.6	8.8	1.0	35	8.0	63
9	965.8	27.1	3.4	22.1	74	26.6	50	0.9	7	22.0	26.8	26.9	23.4	31.6	22.0	9.6	0.1	5	6.4	50
10	965.9	27.2	4.1	21.0	69	24.9	50	1.8	9	21.8	26.5	27.9	23.2	30.3	21.6	8.7	3.8	40	7.2	57
11	[illegible]	25.6	3.7	20.0	71	23.4	45	1.3	8	21.8	24.9	27.0	22.4	29.6	21.8	7.8	...	...	7.8	61
12	[illegible]	27.3	4.8	20.0	65	23.4	50	1.1	8	20.6	26.4	26.1	22.5	29.5	[illegible]	[illegible]	[illegible]	30	5.9	47
13	965.8	27.2	3.8	21.5	71	25.6	50	1.5	8	21.8	26.4	28.0	22.1	30.4	21.8	8.2	5.2	30	7.3	57
14	965.2	[illegible]	[illegible]	21.9	[illegible]	26.3	55	2.7	9	21.8	25.3	27.1	23.0	29.5	21.5	8.0	...	...	7.6	60
15	965.[illegible]	[illegible]	[illegible]	21.7	79	25.2	CALM		10	21.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.8	80	5.5	44
16	965.6	25.0	2.4	21.4	81	25.5	65	4.0	6	21.4	24.8	26.0	22.3	28.8	21.2	7.[illegible]	...	...	9.3	74
17	965.6	26.0	3.8	[illegible]	[illegible]	[illegible]	80	1.8	7	21.3	25.6	24.5	22.0	28.4	21.2	7.[illegible]	...	...	6.1	48
18	965.1	26.2	4.3	19.6	67	22.8	CALM		7	21.8	26.0	26.6	21.6	30.1	21.5	8.[illegible]	11.3	125	4.6	37
19	964.8	24.4	1.2	22.6	90	27.4	CALM		10	20.9	24.0	26.4	20.8	27.1	20.9	6.[illegible]	52.5	590	2.3	19
20	965.6	22.2	0.5	21.4	95	25.5	CALM		10	20.6	22.6	28.1	22.8	29.9	20.6	9.[illegible]	11.7	140	6.4	52
21	966.7	26.9	3.0	21.6	73	25.8	CALM		9	20.3	26.8	24.9	22.7	30.[illegible]	20.1	10.[illegible]	10.7	130	5.3	43
22	966.6	27.1	3.1	22.6	76	27.4	CALM		9	22.6	27.0	24.7	23.0	29.[illegible]	21.9	7.[illegible]	12.3	140	5.1	41
23	964.6	27.0	3.9	21.2	71	25.2	CALM		9	22.7	26.5	25.8	21.2	29.2	22.1	7.[illegible]	40.8	545	1.1	9
24	963.8	25.7	[illegible]	21.9	80	26.3	45	2.2	9	21.6	25.6	26.0	23.5	28.0	21.0	[illegible]	15.1	265	2.0	16
25	964.8	24.0	1.1	22.4	91	27.1	55	4.5	10	22.0	23.3	25.5	23.0	25.9	21.9	4.[illegible]	1.4	50	[illegible]	0
26	965.5	25.5	1.1	23.9	91	29.7	40	1.3	10	22.8	24.8	26.5	23.7	27.3	23.0	4.[illegible]	2.7	85	0.0	0
27	963.7	27.2	2.7	23.3	79	28.6	35	2.0	8	22.9	26.4	27.0	24.3	28.8	22.3	6.[illegible]	0.2	10	6.4	52
28	961.5	24.9	1.4	22.9	89	27.9	0	2.2	9	23.8	23.4	23.2	22.1	26.6	21.5	5.[illegible]	15.8	305	0.3	3
Mean	965.8	26.1	3.1	21.3	75.8	25.4	...	[illegible]	8.0	21.7	25.6	26.4	22.5	29.2	21.4	7.8	217.6	2735	5.92	46.7
Average	963.	24.8	2.4	21.2	80.3	20.2	...	3.6	6.9	...	...	...	...	[illegible]	[illegible]	6.1	303.4	...	7.04	55.4
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

EXCESS OF CERTAIN ELEMENTS AT PAMPLEMOUSSES OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	+ 41.0 mbs	Amount of Rain	- 122.9 mms
Temperature of the Air	+ 2.6 °C	Duration of Sunshine	+ 68.7 hrs
Vapour Pressure	+ 3.4 mbs	Mean of Maximum Temperatures	2.1 °C
Relative Humidity	- 2.7 %	Mean of Minimum Temperatures	2.1 °C
Velocity of Wind	+ 1.8 m.p.s.	Absolute Maximum Temperatures	+ 1.5 °C
Amount of Cloud	- 1.1	Absolute Minimum Temperatures	+ 1.3 °C

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF FEBRUARY, 1942

Month and Day 1942	Atmospheric Pressure: Mean	Atmospheric Pressure: Excess above Average	Temperature of the Air: Daily Maximum	Temperature of the Air: Daily Minimum	Temperature of the Air: Daily Range	Temperature of the Air: Mean	Temperature of the Air: Excess above Average	Excess of Air Temp. over Evaporation Temp.	Temperature of the Dew Point: Mean	Temperature of the Dew Point: Excess above Average	Relative Humidity (Sat. = 100): Mean	Relative Humidity (Sat. = 100): Excess above Average	Vapour Pressure	Minimum on the grass	Rainfall: Amount (250 - Gauge)	Rainfall: Duration	Amount of Evaporation	Mean Amount of Cloud (Scale 0-10)
FEB.	mbs.	mbs	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C	mms	mins	mms	
1	1005.9	+ 1.4	33.0	21.4	11.6	27.0	+ 1.1	4.1	26.3	- 1.6	69	- 11	24.6	17.6	0.1	5	8.8	3.5
2	1007.5	+ 3.0	33.1	23.8	9.3	27.2	+ 1.3	2.7	23.3	+ 0.9	79	- 1	28.6	20.6	0.4	15	8.3	6.5
3	1008.4	+ 3.9	32.0	23.9	8.1	27.6	+ 1.7	3.2	23.0	+ 0.6	76	- 4	28.1	21.5	1.1	[illegible]	5.4	4.9
4	1008.3	+ 3.9	31.8	24.1	7.7	27.4	+ 1.5	3.6	22.1	- 0.3	73	- 7	26.6	21.1	0.0	...	8.4	3.3
5	1008.7	+ 4.3	30.4	23.2	7.2	27.1	+ 1.2	3.9	21.3	- 1.1	70	- 11	25.3	19.9	0.0	...	9.3	4.3
6	1008.7	+ 4.3	31.6	23.3	8.3	26.8	+ 0.9	3.9	21.0	- 1.4	71	- 10	24.9	21.0	0.3	15	9.3	4.0
7	1007.3	+ 2.9	31.0	22.1	8.9	26.6	+ 0.7	3.6	21.2	- 1.2	72	- 9	25.2	19.8	0.7	10	7.7	4.7
8	1005.9	+ 1.6	32.2	23.4	8.8	27.0	+ 1.1	3.1	22.5	+ 0.1	76	- 5	27.3	20.5	1.9	60	8.5	3.8
9	1005.8	+ 1.5	30.8	23.7	7.1	26.9	+ 1.0	2.1	23.8	+ 1.3	83	+ 2	29.5	21.1	5.0	95	8.3	6.5
10	1006.4	+ 2.1	32.4	24.0	8.4	27.3	+ 1.4	2.9	23.0	+ 0.5	77	- 4	28.1	21.7	0.0	...	6.9	6.1
11	1006.8	+ 2.4	31.1	23.9	7.2	26.7	+ 0.8	3.4	21.6	- 0.9	74	- 7	25.8	21.8	0.0	...	[illegible].2	5.5
12	1006.2	+ 1.8	31.3	22.4	8.9	26.8	+ 1.0	3.5	21.6	- 0.8	73	- 8	25.8	19.4	0.8	15	3.3	5.0
13	1006.6	+ 2.2	32.0	23.5	8.5	27.2	+ 1.4	3.0	22.8	+ 0.4	77	- 4	27.8	21.5	0.6	30	7.5	5.1
14	1006.4	+ 2.0	31.7	23.6	8.1	27.4	+ 1.6	3.3	22.5	+ 0.1	75	- 7	27.3	21.8	0.2	10	8.4	6.0
15	1006.[illegible]	+ 1.5	31.0	23.3	7.7	26.4	+ 0.6	2.9	22.1	- 0.3	77	- 5	26.6	21.2	3.2	90	7.5	6.7
16	1005.8	+ 1.3	31.0	23.2	7.8	26.4	+ 0.6	3.2	21.6	- 0.8	75	- 7	25.8	19.9	0.0	...	7.1	4.1
17	1005.8	+ 1.3	31.6	23.1	8.5	26.7	+ 0.9	3.4	21.7	- 0.7	74	- 8	26.0	19.8	1.[illegible]	25	8.2	5.8
18	1005.1	+ 0.6	32.7	[illegible]	9.5	27.5	+ 1.7	3.1	23.1	+ 0.7	77	- 5	28.3	20.5	5.4	145	8.0	8.0
19	1004.6	0.0	31.0	[illegible]	7.9	26.5	+ 0.[illegible]	1.9	23.8	+ 1.3	85	+ 3	29.3	22.5	40.0	305	7.2	8.4
20	1006.1	+ 1.5	31.1	22.9	8.2	26.8	+ 1.0	2.1	23.8	+ 1.4	84	+ 2	29.5	20.9	0.0	...	...	6.1
21	1007.8	+ 3.2	32.3	23.1	9.2	26.4	+ 0.6	2.0	23.5	+ 1.1	84	+ 2	29.0	21.4	11.8	45	6.6	4.5
22	1005.[illegible]	+ 1.6	30.8	23.1	7.7	25.9	+ 0.2	1.6	23.6	+ 1.3	87	+ 5	29.1	21.8	7.0	70	4.1	6.4
23	1004.6	- 0.1	30.6	24.0	6.6	26.3	+ 0.7	2.1	23.2	+ 0.9	83	+ 1	28.4	22.4	0.2	10	5.5	8.8
24	1004.2	- 0.6	30.0	24.3	5.7	27.0	+ 1.3	2.4	23.6	+ 1.3	82	0	2[illegible]	22.9	1.2	85	4.3	9.6
25	1005.3	+ 0.5	28.3	24.1	4.2	26.3	+ 0.6	1.5	24.1	+ 1.8	88	+ 6	30.0	23.3	1.8	90	3.2	9.9
26	1005.7	+ 0.9	29.7	25.4	4.3	27.0	+ 1.3	1.6	24.7	+ 2.4	87	+ 5	31.1	24.0	5.6	70	2.3	9.[illegible]
27	1003.3	- 1.6	31.1	24.7	6.4	27.5	+ 1.8	1.9	24.8	+ 2.5	85	+ 3	31.[illegible]	21.4	0.6	25	4.8	6.7
28	1001.6	- 3.3	31.1	24.7	6.4	26.9	+ 1.3	1.6	24.6	+ 2.4	87	+ 5	1.[illegible]	21.5	5.0	205	5.2	9.1
Mean	1006.1	+ 1.6	31.[illegible]	23.5	7.8	26.9	+ 1.1	2.8	22.8	+ 0.4	78.6	- 2.8	27.8	21.2	Sum 94.7	Sum 1445	6.7	6.2
Average	1004.5	..	29.5	22.8	6.7	25.8	...	2.3	22.4	...	81.4	...	27.0	20.5	1970.0	1910	5.5	6.0
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

General Weather Conditions during the month of February, 1942

There was no cyclonic activity until the 22nd when there were two weak cyclonic depressions in existence, one in the Central Mozambique Channel and the other off the central east coast of Madagascar. The former did not develop and filled up after the 24th. The latter moved south-west and south-south-west down the coast and by the 25th was a cyclone of moderate intensity centred east of Fort Dauphin. On the 26th-27th it recurved and on the 28th, was about 600 miles south-west by south of Mauritius moving east-south-east.

Pressure was above normal on most days and the mean appreciably above. Temperature was above normal every day and the mean 1.1°C above. Mean humidity was slightly less than the normal. Cloudiness was about normal but sunshine 10% above. Rainfall was low, 48% of the average and badly distributed, 42% being recorded on one day, while the duration was appreciably below normal. Wind velocity for the month was 1.0 metres per second below normal, reaching [illegible] value on one day only.

TABLE VII (Cont'd) - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF FEBRUARY, 1942

Month and Day 1942	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the Soil: 10 Feet	5 Feet	2 Feet	12 Inches	WEATHER 0h 3h 6h 9h 12h 15h 18h 21h 24h
FEB.	hrs	%	m.p.s.	m.p.s.	°C	°C	°C	°C	
1	10.7	82	1.9	- 1.5	[illegible]	26.7	30.1	28.8	b bo b bc cro bc b
2	5.6	43	1.6	- 1.8	[illegible]	26.7	30.3	28.8	o bc c cro bc bcro
3	12.4	96	2.2	- 1.2	25.1	26.7	30.1	28.8	bcro bc b
4	12.1	94	2.6	- 0.8	25.2	26.7	30.5	28.8	b bc
5	12.3	95	2.9	- 0.5	25.2	26.8	30.7	28.9	c b bc b
6	11.8	92	3.4	- 0.0	25.2	26.9	30.7	29.0	bro b bcro bc
7	11.9	92	3.0	- 0.4	25.2	26.8	30.7	29.1	c bcro bc b
8	11.6	91	2.3	- 1.1	25.2	26.7	[illegible]	29.1	bcro bc b bl bol
9	9.8	77	2.5	- 0.9	25.2	26.7	30.8	29.2	bcr cro c bc cotl bc b bro
10	9.5	74	2.4	- 1.0	25.2	26.9	30.8	29.0	bcl bc c bcl b
11	9.4	73	2.7	- 0.7	25.2	26.9	30.8	29.2	b bc c bc b
12	9.4	73	2.7	- 0.7	25.2	26.9	30.6	29.2	b bc c clt bc bro
13	10.6	83	2.4	- 1.0	25.2	26.9	30.8	29.2	bro b bc ctl bcro
14	10.6	84	2.4	- 1.0	25.2	26.9	30.8	29.3	bro bc c bc
15	7.9	62	2.2	- 1.2	25.2	26.9	30.7	29.3	bcro bo cro c bc
16	9.3	73	3.0	- 0.4	25.2	27.0	30.6	29.3	b bc bcl b
17	9.1	72	2.7	- 0.7	25.2	26.9	30.6	29.3	bro b bcr c bc b
18	9.4	74	2.6	- 0.8	25.2	26.9	30.6	29.2	c bc ct cRtl
19	6.0	48	2.0	- 1.4	25.2	27.0	30.8	29.3	clro c bc c cRR cro
20	11.2	89	1.7	- 1.[illegible]	25.4	27.2	30.1	29.3	bc c bc bcl b
21	8.7	69	1.9	- 1.5	25.4	27.2	30.3	29.2	b bc c cR bc b
22	5.8	46	1.7	- 1.7	25.4	27.2	30.3	29.2	bo b bc cRt o c
23	1.5	12	1.8	- 1.5	25.2	27.0	30.2	29.2	bc c ct oro o
24	2.1	17	2.3	- 1.0	25.3	27.2	30.1	29.1	o c o oro
25	0.0	0	3.2	- 0.1	25.4	27.2	30.1	29.1	oro o oro
26	2.1	17	2.5	- 0.8	25.4	27.3	29.7	29.0	oro o cro c olro o
27	10.8	86	2.5	- 0.8	25.4	27.3	29.7	28.8	bc bcro bc cro c bclro b
28	2.8	22	2.3	- 1.0	25.4	27.4	29.9	28.9	ol o c ct crrtl ctltl
Mean	[illegible]	65.6	2.41	- 0.97	25.25	26.96	[illegible]	29.09	
Average	7.60	59.7	3.38	...	25.13	26.87	28.16	28.62	
Column	19	20	21	22	23	24	25	26	27

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF FEBRUARY, 1942

Element	Highest	hrs	Date	Lowest	Date
Atmospheric Pressure	1010.2 mbs	at 22.00	on 5th	1000.1 mbs	at 15.00 on 28th
Temperature of the Air	33.1°C	at 13.00	on 2nd	21.4°C	at 05.00 on 1st
Daily Range of Temperature of the Air	11.6°C		on 1st	4.2°C	on 25th
Temperature of the Dew Point	26.1°C	at 13.00	on 26th	19.0°C	at 5 & 6hrs on 1st
Daily Range of Temperature of the Dew Point	...			...	
Minimum on grass				17.6°C	on 1st
Relative Humidity	97.9 %	at 20.00	on 19th	52.0 %	at 12.00 on 6th
Vapour Pressure	33.8 mbs	at 13.00	on 26th	22.0 mbs	at 5 & 6 hrs on 1st
Evaporation in 24 hrs	9.3 mms		on 5th & 6th	2.3 mms	on 26th
Wind Velocity	5.0 m.p.s.	at 13.00	on 5th	0.6 m.p.s.	at 8 & 20 hrs on 1st
Rainfall in 24 hrs	41.1 mms	ending 20.00	on 19th		
Duration of Sunshine	12.4 hrs		on 3rd	0.0 hrs	on 25th

Mean Day Temperature of Air 28.89°C Average 27.63°C Mean Night Temperature of Air 24.86°C Average 24.11°C

NUMBER OF DAYS

Mean Cloud Amount: 0	1 - 3	4 - 6	7 - 9	10	Rainfall: 0.1 - 0.9	1.0 - 4.9	5.0 - 9.9	10.0 - 24.9	25.0 and over	Lightning	Thunderstorm
...	2	17	7	2	9	6	5	1	1	8	6

TABLE VIII - ATMOSPHERIC PRESSURE IN MILLIBARS AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level).
(The cistern of the barometer is 55.2 metres above mean sea level)

FEBRUARY, 1942

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	060	074	082	088	090	096	089	068	069	069	077	073	070	073	067	062	Midnight
1	056	074	080	084	084	090	080	061	062	062	074	069	064	069	062	060	1
2	051	071	076	081	084	085	077	059	053	055	070	061	059	063	059	055	2
3	050	071	074	080	082	081	071	051	051	057	061	060	052	062	051	052	3
4	051	072	077	080	083	083	071	051	051	051	063	059	051	060	050	051	4
5	054	075	080	081	084	082	071	053	051	059	061	060	056	060	053	050	5
6	058	080	082	086	086	084	074	056	058	062	065	062	060	063	057	051	6
7	061	085	090	090	089	088	080	061	059	070	071	068	068	068	060	060	7
8	066	084	091	090	088	091	082	066	062	071	072	070	070	070	062	060	8
9	065	081	091	089	089	096	084	069	066	071	076	070	070	071	066	061	9
10	062	080	091	086	089	098	082	066	067	070	077	069	071	071	067	061	10
11	061	080	088	083	088	093	080	062	061	068	073	063	070	070	063	060	11
Noon	061	076	084	082	084	090	077	059	060	063	070	061	070	065	061	060	Noon
13	057	069	081	078	082	084	070	054	050	060	063	058	061	059	057	056	13
14	050	064	079	071	080	080	061	050	047	056	059	052	060	055	051	050	14
15	050	061	076	070	078	079	060	048	042	052	055	050	059	050	050	047	15
16	050	060	078	070	076	079	058	047	044	051	052	049	062	051	051	044	16
17	050	061	080	071	080	080	058	049	047	051	054	049	061	053	056	049	17
18	051	066	081	077	085	082	061	052	053	059	060	050	063	054	060	052	18
19	060	072	085	081	090	088	069	062	062	066	068	057	070	061	060	062	19
20	069	077	091	085	097	091	071	066	070	071	072	063	075	068	063	069	20
21	073	081	096	090	101	095	076	071	079	071	080	068	079	070	070	070	21
22	076	087	098	094	102	094	078	071	072	080	081	071	080	070	071	071	22
23	077	036	092	093	101	091	072	071	071	080	079	071	071	069	070	074	23

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	Mean				Hour \ Day
Midnight	070	065	060	059	081	088	060	045	050	070	059	026	069				Midnight
1	065	060	053	052	080	080	053	037	046	062	051	021	064				1
2	060	050	049	049	073	073	050	030	047	060	044	010	059				2
3	052	047	041	044	070	069	042	030	045	058	040	002	055				3
4	051	043	040	041	070	063	041	030	046	052	034	006	054				4
5	051	045	046	041	070	066	040	035	044	051	031	005	056				5
6	057	046	043	046	071	064	041	043	048	057	035	010	059				6
7	063	054	045	059	078	066	048	046	054	061	040	017	064				7
8	066	060	050	062	080	070	055	047	059	063	042	020	067				8
9	065	062	052	066	080	071	057	048	062	064	042	019	068				9
10	065	061	053	064	080	071	056	046	060	064	043	020	068				10
11	062	060	050	061	080	069	051	046	057	066	041	016	065				11
Noon	057	052	046	062	079	060	043	043	051	061	035	012	062				Noon
13	050	045	041	060	076	052	040	039	051	051	029	012	057				13
14	045	041	032	056	074	056	033	035	050	049	022	010	052				14
15	044	040	032	054	073	051	035	033	043	047	020	001	050				15
16	046	038	032	057	071	050	040	034	041	045	019	008	050				16
17	052	039	032	060	077	050	041	036	043	043	019	008	052				17
18	052	045	039	066	080	051	041	039	042	049	019	013	055				18
19	057	050	049	073	081	059	047	040	054	051	021	017	061				19
20	062	050	050	076	084	061	051	049	060	055	022	023	066				20
21	069	052	059	080	088	062	056	058	063	059	027	031	070				21
22	071	061	061	082	090	063	053	060	071	061	030	036	070				22
23	070	060	060	083	089	061	045	055	071	060	029	037	071				23

TABLE IX - AMOUNT OF CLOUD AT EVERY HOUR OF THE DAY (0-CLEAR SKY, 10 - OVERCAST SKY)

Hour \ Day	FEBRUARY, 1942																												Mean
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Midnight	3	10	4	1	8	1	2	3	5	6	3	2	3	5	4	3	2	8	8	8	1	0	6	10	10	10	8	10	5.2
1	3	10	5	1	8	1	5	3	5	6	3	2	3	5	4	3	2	8	[illegible]	7	0	0	6	10	10	10	7	10	5.2
2	3	10	5	1	9	1	7	3	5	5	3	2	3	3	4	2	2	8	8	7	0	0	6	10	10	10	5	10	5.1
3	3	10	8	1	9	2	9	6	9	5	4	3	1	1	4	2	2	9	8	6	0	1	6	10	10	10	4	10	5.5
4	3	10	6	1	3	2	9	6	9	5	5	4	1	1	5	2	3	9	8	6	1	2	7	10	10	10	5	10	5.5
5	3	2	6	1	3	2	6	6	8	1	5	4	1	6	5	1	3	9	8	6	2	4	8	9	10	10	7	9	5.4
6	1	1	4	1	3	2	4	2	8	6	6	4	1	6	6	1	4	9	8	6	3	6	9	9	10	9	8	8	5.2
7	1	1	5	1	4	2	4	2	8	6	6	4	1	6	6	1	5	8	8	6	4	6	9	9	10	9	8	8	5.3
8	0	3	6	2	5	4	5	3	8	7	7	5	7	7	4	6	8	9	7	5	5	9	9	9	9	7	8	8	6.0
9	0	6	7	4	6	6	6	4	8	8	8	5	9	8	7	6	7	7	9	9	6	5	9	9	9	9	7	9	6.9
10	1	6	6	4	6	6	6	6	8	9	6	5	7	8	8	6	8	6	7	8	7	6	9	9	10	9	7	9	6.9
11	2	7	6	4	6	6	5	7	7	8	8	6	7	9	9	6	6	6	7	8	6	7	9	9	10	9	8	9	7.1
Noon	2	6	7	4	6	5	5	6	7	8	7	8	7	9	10	7	8	6	9	8	8	7	9	9	10	9	9	9	7.3
13	4	7	7	4	6	5	4	6	7	8	7	8	7	8	9	7	8	7	9	8	8	9	9	9	10	9	9	9	7.4
14	5	8	7	5	5	5	4	6	9	8	8	8	7	8	8	7	8	8	8	7	8	10	9	9	10	8	9	9	7.6
15	7	9	7	5	5	6	4	6	9	9	8	8	8	8	7	7	9	9	8	7	8	9	10	10	10	8	9	9	7.9
16	8	9	6	5	4	6	5	4	9	8	8	8	8	8	8	7	9	9	8	6	8	9	10	10	10	9	8	10	7.7
17	8	9	5	5	3	6	6	3	8	8	8	8	8	9	9	6	9	8	9	5	9	10	10	10	10	10	8	10	7.7
18	8	9	5	5	3	6	6	3	8	6	7	8	8	8	9	6	9	8	9	5	6	10	10	10	10	10	8	9	7.5
19	7	8	2	3	1	4	6	4	5	5	6	7	9	5	9	5	8	8	9	5	5	10	10	10	10	10	6	9	6.6
20	6	5	1	3	1	4	1	2	1	3	4	4	5	5	6	4	6	8	9	4	4	10	10	10	10	10	4	9	5.3
21	1	2	2	2	1	4	1	0	1	3	2	3	4	5	5	2	4	7	9	3	4	10	10	10	10	10	3	9	4.5
22	1	6	1	5	1	4	1	0	1	3	3	2	4	4	5	2	3	8	9	2	3	8	10	10	10	10	3	9	4.6
23	1	6	1	8	1	4	1	0	1	3	2	2	4	4	5	2	3	8	9	2	3	7	10	10	10	9	3	9	4.6

TABLE X - DURATION OF BRIGHT SUNSHINE AT EVERY HOUR OF THE DAY AS RECORDED BY THE CAMPBELL-STOKES SUNSHINE RECORDER

Hour Ending \ Day	FEBRUARY, 1942																												Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	
6h	19	20	7	9	10	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.3
7	60	60	60	60	60	60	60	49	23	0	50	40	60	59	40	50	36	50	12	43	60	44	0	0	0	0	28	22	18.1
8	60	60	55	60	56	60	58	60	50	60	60	60	60	60	55	50	60	60	40	60	60	39	6	18	0	25	60	0	22.5
9	60	59	60	60	60	60	60	60	60	60	60	60	60	60	48	60	60	60	60	58	60	45	0	60	0	42	59	15	24.4
10	60	24	60	60	60	60	58	60	60	60	60	60	60	60	44	60	48	60	60	30	60	29	18	50	0	55	60	45	23.7
11	60	0	60	60	60	60	60	60	60	60	32	60	60	60	60	60	60	60	60	60	60	60	57	0	0	3	54	58	22.1
Noon	60	48	60	60	60	60	60	60	60	60	58	60	60	60	45	60	60	60	60	50	60	60	3	2	0	0	57	25	21.8
13	60	60	60	60	60	60	60	60	56	60	54	40	60	60	22	45	60	60	0	58	34	31	5	0	0	0	60	0	19.7
14	60	1	60	60	60	60	60	60	40	60	41	48	60	45	60	60	60	37	48	60	6	0	0	0	0	0	48	0	18.3
15	60	0	60	60	60	60	60	60	25	60	21	60	52	60	42	40	35	30	38	60	35	0	0	0	0	0	60	0	17.8
16	39	0	60	60	60	60	60	60	51	41	31	54	50	50	26	60	50	33	12	60	56	11	0	0	0	0	60	0	17.4
17	19	5	60	60	60	50	60	45	60	49	45	20	35	55	0	0	18	25	35	60	8	0	0	0	0	0	57	0	13.7
18	11	0	60	54	60	55	58	50	45	0	48	0	18	4	30	12	0	30	16	60	17	0	0	0	0	0	46	0	11.3
19	15	0	20	0	15	0	0	12	0	0	1	0	0	0	4	0	0	0	0	15	0	0	0	0	0	0	0	0	1.3

The total amount of registered sunshine was 23[illegible].4 hours and the total possible was [illegible]6.3 hours

TABLE XI - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the Asbolute Scale add 273)

FEBRUARY, 1942

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	24.0	1.9	24.8	1.8	25.2	1.0	25.3	1.3	25.1	1.9	24.4	1.3	24.2	1.6	24.8	1.4	Mid-night
1	23.7	1.8	24.5	1.5	25.0	1.0	25.1	1.2	25.1	2.3	24.1	1.0	24.0	1.7	24.5	1.3	1
2	23.0	1.8	24.8	1.7	25.1	1.0	24.9	1.3	24.2	1.0	24.1	1.1	23.6	1.5	24.2	1.2	2
3	22.2	1.7	25.1	1.6	24.9	0.8	24.9	1.3	24.9	1.7	24.0	1.3	23.4	1.6	24.1	1.2	3
4	22.1	1.6	25.3	1.5	24.2	1.0	24.5	1.3	23.9	1.7	23.7	1.4	23.1	1.3	24.0	1.0	4
5	22.0	1.9	24.5	1.5	24.2	1.0	24.2	1.2	23.4	1.6	23.8	1.5	22.6	1.3	23.7	0.9	5
6	22.0	1.9	23.9	1.7	24.0	0.9	24.1	1.1	23.2	1.5	23.3	1.2	22.2	1.1	23.4	0.7	6
7	24.1	2.1	26.0	2.2	26.0	1.4	26.0	1.7	25.6	2.6	25.9	2.7	24.9	1.9	25.2	0.7	7
8	26.8	3.8	28.2	3.4	27.2	2.0	28.1	3.9	27.5	3.6	27.4	3.9	27.3	3.5	26.8	2.0	8
9	31.5	7.0	30.0	4.3	30.6	4.8	30.2	5.9	30.0	5.8	30.3	6.6	30.0	6.0	30.7	5.4	9
10	30.8	6.7	29.9	3.9	30.0	4.2	30.0	6.0	30.1	6.0	29.0	5.2	29.0	5.3	29.2	4.2	10
11	31.5	7.0	30.0	4.3	30.6	4.8	30.2	5.9	30.0	5.8	30.3	6.6	30.0	6.0	30.7	5.4	11
Noon	31.0	7.3	31.2	5.3	31.1	5.5	30.5	6.0	30.0	5.8	30.7	7.3	30.2	6.2	30.6	5.7	Noon
13	31.3	7.1	31.5	5.4	31.1	6.1	31.1	6.6	30.8	7.1	30.9	7.0	30.4	6.8	31.0	6.8	13
14	31.2	7.0	31.2	5.2	31.1	6.4	31.2	6.7	30.8	7.1	30.5	6.9	30.8	7.2	31.3	6.8	14
15	31.4	6.8	29.3	4.1	30.9	6.5	31.0	6.7	30.6	6.8	30.2	7.1	30.1	6.7	31.2	6.9	15
16	31.0	6.2	28.7	3.7	30.7	6.3	30.3	6.4	29.8	6.3	30.0	6.5	30.1	6.8	30.1	5.6	16
17	30.0	5.9	27.5	2.2	30.1	5.9	29.9	6.1	29.0	5.7	28.8	5.8	29.3	6.1	29.0	5.0	17
18	29.0	5.0	27.0	2.2	29.3	5.2	28.4	4.7	28.2	5.0	27.9	5.8	28.0	5.0	28.2	4.4	18
19	27.9	4.2	26.7	2.1	27.8	2.9	27.1	3.5	27.1	4.0	26.2	3.3	26.9	3.7	27.2	3.2	19
20	27.0	3.2	26.0	1.5	26.3	2.0	26.0	2.7	26.1	3.1	25.9	3.2	25.6	2.5	26.2	2.2	20
21	25.1	2.0	25.7	1.4	26.0	2.3	25.1	1.9	25.1	2.1	24.3	2.4	25.3	2.1	25.0	1.8	21
22	25.1	2.0	25.7	1.4	26.0	2.3	25.1	1.9	25.1	2.1	24.3	2.4	25.3	2.1	25.0	1.8	22
23	25.0	2.0	25.2	1.0	25.9	1.7	25.4	1.7	25.1	2.0	24.3	2.1	25.0	1.9	24.9	1.8	23

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	24.3	1.3	25.1	1.1	25.0	1.4	[illegible]	1.8	24.7	1.5	25.0	1.3	24.9	1.1	24.0	1.6	Mid-night
1	24.2	1.2	24.7	0.9	24.3	1.2	[illegible]	1.6	24.3	1.0	25.1	1.2	24.7	1.1	23.6	1.6	1
2	24.3	1.2	24.6	0.8	24.0	1.0	23.2	1.6	24.2	1.1	24.5	1.0	24.5	1.1	23.8	1.6	2
3	24.0	0.8	24.3	1.0	23.9	1.0	23.6	1.3	24.0	1.0	24.7	1.4	24.3	1.2	23.7	1.6	3
4	24.0	0.6	24.2	1.0	24.1	1.1	23.1	1.1	24.0	1.0	24.1	1.1	24.0	1.0	23.3	1.5	4
5	24.0	0.8	24.1	1.0	24.1	0.9	22.8	1.5	23.9	0.9	23.8	1.3	23.6	1.0	23.2	1.4	5
6	24.0	0.8	24.1	1.0	24.3	1.0	22.7	1.6	23.6	1.0	24.1	1.1	23.3	0.9	23.7	1.5	6
7	24.8	0.7	24.5	0.6	25.6	1.4	24.0	1.7	25.2	1.0	26.1	1.8	25.0	2.4	24.8	1.8	7
8	26.1	1.1	27.1	1.9	27.2	2.7	27.5	3.4	27.5	2.4	27.1	2.1	27.1	3.0	27.4	3.4	8
9	28.4	3.2	28.9	3.5	29.1	4.6	29.1	5.1	28.1	3.3	29.6	5.0	27.4	2.7	29.1	5.1	9
10	28.7	3.5	30.0	4.7	30.1	6.1	30.1	6.6	29.4	4.3	30.7	6.0	28.4	3.7	29.[illegible]	5.6	10
11	30.6	5.1	30.7	5.2	29.5	5.3	30.2	6.4	30.3	5.1	30.3	5.3	29.2	4.5	30.1	5.7	11
Noon	30.6	4.9	30.4	5.0	30.6	6.9	30.7	6.4	30.8	5.6	31.0	6.0	28.3	3.7	29.7	5.4	Noon
13	31.1	5.1	31.2	5.6	30.3	7.1	30.2	5.3	30.6	5.8	31.1	6.5	28.0	4.0	29.2	5.0	13
14	29.1	3.1	32.0	6.4	30.0	6.7	30.6	6.0	31.7	6.7	30.9	5.8	29.7	4.7	30.7	6.5	14
15	28.9	4.2	30.7	5.7	29.1	5.4	31.0	6.3	30.9	5.9	30.3	5.6	29.9	5.9	28.[illegible]	4.7	15
16	29.1	4.4	30.0	4.8	28.7	4.7	30.3	6.0	30.2	5.2	30.0	6.0	29.0	5.7	29.6	5.8	16
17	29.4	4.3	29.0	4.3	28.3	5.0	28.4	4.3	29.2	4.3	29.4	5.4	28.0	5.0	27.9	4.4	17
18	28.6	3.6	27.8	3.4	27.7	4.6	27.8	3.9	28.2	3.4	28.3	4.0	27.6	4.5	27.2	4.0	18
19	27.3	2.4	27.1	2.9	26.7	3.6	27.1	3.4	27.6	3.2	27.7	3.6	26.9	3.7	26.1	2.8	19
20	26.3	1.6	26.4	2.1	25.2	2.2	26.1	2.3	26.8	2.2	26.9	3.0	25.9	2.8	25.2	2.1	20
21	26.0	1.5	26.2	2.0	25.0	2.7	25.5	1.7	26.3	1.7	26.0	2.0	25.6	2.5	24.9	1.9	21
22	25.4	1.3	25.9	1.9	24.6	2.4	25.2	1.6	25.9	1.8	25.7	1.8	24.7	2.2	24.3	1.7	22
23	25.1	1.2	25.1	1.5	24.2	1.9	25.2	1.9	25.2	1.2	25.2	1.5	24.0	1.6	24.1	1.8	23

TABLE XI (Ctd) - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the absolute scale add 273)

FEBRUARY, 1942

Day / Hour	17		18		19		20		21		22		23		24		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	24.2	1.3	24.2	1.8	25.2	0.7	23.5	0.5	24.2	1.2	24.0	0.9	24.9	1.4	24.9	1.9	Mid-night
1	24.1	1.3	24.8	2.0	24.9	0.7	23.4	0.4	23.9	1.3	23.8	0.8	24.9	1.3	25.1	1.4	1
2	24.0	1.1	25.1	2.1	24.2	0.5	23.4	0.4	23.7	1.1	23.7	0.7	24.7	1.0	25.4	1.4	2
3	24.0	1.4	24.5	1.7	24.0	0.8	23.2	0.6	23.6	1.0	23.6	0.7	24.2	1.0	25.2	1.6	3
4	23.9	1.7	24.3	1.6	24.1	0.6	23.1	0.8	23.4	0.9	23.2	0.5	24.0	0.9	25.0	1.7	4
5	23.7	1.5	24.0	1.5	24.2	0.7	23.0	0.9	23.3	1.0	23.1	0.7	24.5	1.1	25.0	1.9	5
[illegible]	23.3	1.3	23.3	1.2	24.1	0.8	22.9	0.8	23.3	1.1	23.1	0.8	24.2	1.0	24.7	1.4	6
[illegible]	25.0	2.0	25.7	2.2	25.0	0.7	24.9	0.6	25.0	0.8	25.2	0.8	24.8	0.8	25.2	1.2	7
8	[illegible].0	2.7	28.5	4.3	26.0	1.0	26.9	1.2	27.9	2.0	27.1	1.8	26.0	1.1	26.2	1.7	8
9	[illegible].5	4.4	29.5	4.4	28.9	2.4	28.9	2.2	29.6	3.3	28.0	2.4	27.9	2.9	28.9	3.7	9
10	29.1	4.5	31.4	5.5	30.0	3.6	29.1	2.3	30.7	3.7	[illegible]	2.2	28.8	3.6	29.9	4.6	10
11	30.1	5.5	31.0	4.9	30.1	3.9	30.0	3.1	30.7	4.2	[illegible]	3.5	30.0	3.8	29.6	4.5	11
Noon	30.8	6.1	31.0	5.5	29.2	3.0	[illegible]	4.2	32.1	5.3	30.2	3.9	30.0	3.6	29.9	5.0	Noon
13	[illegible]	6.6	31.7	5.9	28.9	3.0	[illegible]	3.6	31.1	4.4	28.0	2.7	30.1	3.8	29.2	3.5	13
14	30.8	6.1	31.1	5.5	30.2	3.9	31.0	4.3	27.7	3.7	25.3	0.6	29.8	3.7	29.2	4.0	14
15	29.1	5.0	31.5	5.9	29.6	3.6	30.8	4.5	28.9	3.6	27.7	2.7	28.9	3.0	29.1	3.6	15
16	29.3	5.9	31.0	5.4	29.6	3.5	30.2	4.1	29.0	4.1	27.7	2.2	27.2	2.7	28.9	3.7	16
17	28.2	4.6	30.1	4.2	29.0	3.1	30.0	4.3	25.0	1.0	27.1	2.1	26.0	2.5	28.[illegible]	3.0	17
18	27.8	4.1	27.1	3.2	28.2	3.1	28.7	3.5	25.7	1.0	26.2	1.4	26.0	2.3	27.5	2.3	18
19	27.0	[illegible].9	26.9	2.8	25.7	1.9	27.1	1.9	25.7	0.6	25.9	1.6	25.2	2.0	27.0	1.9	19
20	26.2	[illegible].2	26.[illegible]	2.6	23.5	0.2	26.0	1.3	25.3	0.6	25.6	1.5	25.1	1.2	26.7	1.6	20
21	[illegible]	2.4	25.3	0.6	23.7	0.6	25.4	1.3	24.9	0.7	25.2	1.0	24.9	1.3	26.2	1.1	21
22	24.1	1.9	26.0	1.0	23.8	0.5	25.2	1.2	24.3	0.7	25.1	1.1	24.6	1.6	26.0	1.0	22
23	24.0	1.9	25.3	0.7	23.8	0.7	24.9	1.3	24.0	0.8	25.1	1.4	24.8	2.0	25.8	0.8	23

Day / Hour	25		26		27		28		[illegible]								Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	[illegible]	[illegible]							
Midnight	25.[illegible]	0.8	26.0	1.0	25.4	0.5	26.1	1.2	24.6	1.3							night
1	25.2	1.5	25.9	[illegible]	25.2	0.5	26.1	1.1	24.6	1.2							1
2	24.7	0.8	25.6	1.2	25.0	0.7	26.0	2.0	24.4	1.2							2
3	24.4	0.5	25.9	1.0	2[illegible].9	0.7	24.9	1.6	24.2	1.2							3
4	24.5	0.6	25.8	1.5	25.1	0.5	25.5	1.1	24.1	1.1							4
5	24.1	0.6	25.8	1.4	25.0	0.8	25.1	0.9	23.9	1.2							5
6	24.9	0.9	25.9	1.6	24.3	0.7	25.0	0.9	23.3	1.1							6
7	25.1	1.3	26.1	1.2	25.1	0.7	26.3	0.8	25.[illegible]	1.4							7
8	26.1	1.9	27.2	1.2	27.8	1.7	27.2	1.1	27.1	2.4							8
9	27.0	1.9	28.0	2.0	28.9	2.6	28.3	2.2	28.7	3.7							9
10	27.1	1.9	29.0	2.7	29.0	2.4	29.8	3.1	29.5	4.4							10
11	27.2	2.2	29.1	3.0	29.7	3.2	30.6	3.6	30.1	4.8							11
Noon	27.7	2.4	27.3	2.0	30.1	3.3	30.1	3.9	30.2	5.0							Noon
13	28.1	2.3	28.6	1.8	30.6	3.7	29.2	3.0	30.2	5.1							13
14	28.1	2.2	28.6	2.0	30.1	3.4	28.1	2.0	30.1	5.0							14
15	28.1	2.1	29.0	2.8	30.7	3.7	27.9	1.2	29.8	4.9							15
16	27.8	2.2	28.8	2.7	30.2	3.3	27.1	0.9	29.4	4.7							16
17	27.3	2.0	28.5	2.5	29.5	3.2	26.7	2.6	28.5	4.0							17
18	27.1	[illegible].1	28.0	2.1	28.9	3.0	26.2	1.1	27.7	3.5							18
19	27.0	1.9	27.0	1.5	27.9	2.2	26.0	1.0	26.9	2.7							19
20	26.[illegible]	1.6	25.9	0.6	27.4	1.8	25.4	0.5	26.0	2.0							20
21	26.[illegible]	1.4	25.8	0.7	26.9	1.8	25.8	0.8	25.5	1.6							21
22	26.0	1.3	25.5	0.5	26.2	1.2	25.9	1.0	25.2	1.6							22
23	25.3	1.1	25.4	0.5	26.1	1.1	26.1	0.8	25.0	1.4							23

TABLE XII - DIRECTION AND VELOCITY OF THE WIND AT EVERY HOUR OF THE DAY AS RECORDED BY THE ROBINSON CUP ANEMOMETER DURING THE MONTH OF FEBRUARY, 1942

The directions are given in points and the values indicate the direction from which the wind blows counting from North (0), East (8), South (16), and West (24)

The velocities are given in metres per second, using the factor 2.2

(The days on which the Normal Trade Winds are interrupted are indicated by an asterisk *)

FEBRUARY, 1942

Hour \ Day	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Mid-night	14	1.7	10	1.1	10	1.1	08	1.8	12	1.4	09	1.7	10	2.9	10	1.3	10	1.5	09	2.1	07	1.0	11	2.4	09	2.1	09	1.3	09	0.9	10	1.8
1	14	0.8	10	1.5	10	1.2	08	1.0	12	1.5	08	1.7	10	2.9	10	0.9	10	3.0	09	1.4	07	1.6	11	1.8	10	2.0	09	1.8	09	1.0	10	1.4
2	14	1.3	10	1.2	10	[illegible]	08	1.2	12	1.5	11	2.0	10	1.8	10	1.2	10	0.9	10	[illegible]	07	1.8	11	1.5	07	1.8	09	1.5	07	1.1	11	1.5
3	14	1.6	10	0.7	07	1.2	08	1.5	11	1.6	11	1.6	10	2.1	10	1.7	08	2.5	10	1.8	07	2.7	12	1.9	08	1.8	05	1.3	11	1.8	11	1.9
4	14	2.1	10	0.9	07	1.3	08	1.2	11	1.4	11	2.6	10	2.7	11	1.1	10	2.6	10	1.8	08	2.4	12	1.8	08	1.7	10	1.7	12	2.2	11	1.8
5	14	1.9	10	1.9	09	1.5	08	0.8	11	2.0	10	1.9	12	1.5	11	1.4	08	1.9	10	1.6	09	2.2	11	2.0	08	2.3	10	1.5	12	2.6	11	1.9
6	14	1.7	10	0.7	09	1.9	08	1.1	11	1.5	10	1.9	12	1.5	11	1.3	08	1.5	10	1.8	09	2.3	11	1.1	08	1.9	10	1.3	12	1.8	11	2.2
7	15	1.0	10	0.7	09	1.1	08	1.9	10	1.8	10	3.0	11	2.3	11	1.8	08	2.5	10	1.8	09	1.8	11	1.3	08	2.1	10	2.0	12	1.6	10	2.0
8	15	0.6	10	0.9	08	1.0	09	2.7	08	2.7	09	4.7	10	2.9	11	2.0	07	2.4	10	2.0	08	3.0	10	2.9	08	2.6	08	2.1	10	2.6	10	3.3
9	d24	1.5	08	0.9	07	2.4	09	3.7	09	4.1	08	4.3	07	3.9	05	2.8	06	3.1	08	3.2	08	3.5	08	3.2	06	3.6	05	3.6	07	2.9	09	4.1
10	18	1.8	r24	1.7	04	2.2	06	3.5	08	4.7	07	4.3	09	3.5	05	3.2	06	3.2	07	2.9	07	3.5	08	3.8	07	3.6	04	4.1	07	2.8	09	4.7
11	24	3.5	28	1.6	03	2.1	06	3.9	07	4.1	09	4.7	09	3.7	06	3.5	04	3.3	08	3.5	06	3.5	08	3.4	06	3.8	05	3.8	05	3.2	07	4.4
Noon	24	4.0	29	1.8	06	3.4	06	3.9	08	4.6	08	4.6	11	4.2	05	3.7	06	3.3	06	3.2	09	4.0	08	4.0	07	3.4	04	3.5	03	3.5	10	4.4
13	22	4.0	r19	2.7	07	3.2	07	4.5	08	5.0	09	4.6	08	4.4	03	3.4	03	2.8	07	4.1	06	4.1	08	4.2	10	4.0	02	4.0	08	2.9	07	4.5
14	23	4.2	d29	2.7	09	4.1	08	4.8	08	4.3	09	4.7	06	4.4	07	3.7	06	3.7	08	3.8	05	4.0	06	3.8	03	3.7	01	3.5	06	3.7	07	4.5
15	25	3.0	d06	1.8	07	4.0	08	4.8	08	4.8	10	4.4	08	4.8	05	3.5	07	3.4	08	4.2	06	3.7	07	3.9	06	3.5	03	3.7	06	3.4	08	4.4
16	27	1.6	11	2.6	04	3.4	09	4.6	09	4.5	09	4.6	08	4.3	07	3.8	05	3.4	06	3.6	08	3.8	07	4.2	04	3.4	03	3.0	04	2.7	06	5.0
17	d04	1.8	14	2.2	06	3.1	10	3.9	07	4.3	09	4.2	08	4.6	07	3.3	06	3.1	07	3.5	10	3.3	08	3.9	03	1.8	03	2.9	07	1.8	09	3.3
18	04	2.1	10	2.4	07	2.3	11	3.4	10	3.8	12	4.4	09	4.4	06	3.1	06	3.0	07	2.8	11	2.9	08	2.8	07	1.8	03	2.6	07	1.8	09	3.6
19	0[illegible]	2.4	10	2.1	09	2.4	11	1.7	09	3.2	12	2.9	09	3.4	07	2.2	07	1.8	07	2.1	11	2.2	08	2.7	08	1.1	03	2.2	08	1.8	09	2.6
20	06	1.1	10	1.6	09	1.8	11	1.8	09	2.3	11	2.5	08	1.8	07	1.6	08	2.2	07	1.6	11	1.3	08	2.0	08	0.8	04	1.7	08	1.1	09	2.3
21	06	0.7	10	1.8	09	1.9	11	1.8	10	2.2	08	4.1	08	1.1	10	1.6	08	2.1	07	1.6	11	1.2	10	1.8	08	1.2	04	1.8	08	1.3	09	2.1
22	06	0.9	10	1.2	07	1.7	11	2.0	10	1.5	11	3.2	09	1.4	10	1.8	08	1.4	07	1.8	11	1.8	10	1.8	08	1.3	05	1.8	08	1.6	09	2.4
23	09	1.3	10	1.1	08	1.3	12	1.8	09	1.2	10	3.1	10	1.7	10	1.8	08	1.8	07	1.5	11	2.9	10	1.9	08	1.8	05	1.6	08	1.8	09	2.4

Hour \ Day	17		18		19		20		21		22		23		24		25		26		27		28		Mean Velocity
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	
Mid-night	09	2.1	08	2.1	18	2.0	15	1.1	28	1.5	11	0.9	11	[illegible]	12	2.2	07	1.3	05	2.6	08	1.2	02	1.1	1.6
1	09	1.9	08	1.8	17	1.4	10	1.3	28	1.8	11	1.6	11	[illegible]	11	3.0	08	2.6	06	2.2	08	1.1	02	1.2	1.7
2	10	1.6	07	1.9	r09	1.1	08	1.5	28	1.4	12	1.4	11	[illegible]	11	3.1	08	2.8	07	1.9	08	1.6	03	1.8	1.6
3	10	2.0	07	1.2	08	0.8	08	1.1	28	1.8	12	1.2	11	2.1	10	2.0	10	2.9	07	2.0	08	1.2	03	1.2	1.9
4	10	1.7	07	1.3	08	0.9	12	1.3	28	1.6	12	1.2	11	1.8	10	1.8	10	3.4	07	2.3	08	1.1	03	0.9	1.7
5	10	1.7	07	1.0	08	0.9	12	1.2	28	1.7	12	1.7	08	1.4	10	1.7	10	4.3	07	2.8	08	1.2	03	1.0	1.8
6	10	1.3	07	1.4	08	0.9	12	1.1	28	1.7	11	1.3	08	1.0	10	1.8	09	3.7	06	2.6	07	1.3	03	1.2	1.6
7	09	1.4	07	1.1	08	0.9	12	1.1	28	1.3	11	1.4	08	1.3	07	1.9	07	3.3	06	2.4	07	1.3	03	0.9	1.7
8	09	1.8	05	2.2	07	0.7	12	0.8	28	1.1	11	1.6	08	1.1	07	3.2	06	3.3	05	2.8	06	2.1	32	2.5	2.2
9	07	3.2	03	3.7	r30	2.7	r29	1.8	01	1.2	08	2.2	08	1.3	06	3.0	06	4.1	03	4.1	03	3.1	01	2.5	3.0
10	07	3.5	32	4.0	30	3.0	27	2.7	29	2.1	08	1.8	08	1.3	06	3.1	05	4.7	03	4.0	03	3.7	02	4.1	3.3
11	06	3.9	02	4.6	28	3.3	28	2.4	30	3.2	06	2.1	04	1.8	06	3.2	05	4.4	04	4.1	03	3.6	02	4.1	3.5
Noon	06	4.2	32	5.3	26	3.1	26	2.3	27	3.3	06	3.6	01	2.6	04	3.6	05	3.9	03	3.5	04	4.2	02	4.1	3.7
13	08	4.3	04	4.6	27	2.6	26	2.8	24	2.8	r24	3.2	04	2.6	06	3.2	05	3.4	03	3.2	02	4.6	32	4.1	3.7
14	07	4.5	03	4.1	24	4.0	28	3.4	r09	3.2	17	1.7	04	2.4	05	3.0	04	3.1	03	3.1	02	4.4	31	3.9	3.7
15	07	4.4	01	5.2	25	3.1	27	2.8	09	2.1	13	2.3	02	2.1	03	2.7	04	2.9	03	2.8	31	4.6	01	3.0	3.5
16	08	3.9	32	4.6	24	2.9	28	2.5	13	1.8	19	1.5	d10	2.3	04	1.8	04	3.0	03	2.5	02	4.5	01	2.8	3.3
17	08	3.4	01	4.8	26	2.6	28	1.4	17	3.1	19	1.0	12	2.2	04	1.6	06	3.1	04	2.4	01	3.9	02	3.1	3.0
18	09	2.6	08	2.9	24	1.4	28	2.6	14	1.2	11	2.0	13	1.6	04	1.4	06	3.4	04	1.7	02	3.9	02	2.1	2.6
19	08	2.6	09	1.4	d03	3.1	28	0.7	14	0.8	11	1.3	13	1.7	06	1.7	06	2.1	03	1.3	03	2.2	29	1.6	2.1
20	08	2.0	02	1.0	02	1.9	28	0.6	14	1.2	11	0.9	13	1.3	06	1.2	06	2.5	07	1.8	03	2.1	30	1.2	1.6
21	08	2.2	03	1.2	r18	1.8	28	1.3	14	1.7	11	0.7	13	1.3	06	1.2	07	2.7	07	1.7	03	1.9	30	1.6	1.7
22	08	2.3	05	1.3	15	1.4	28	1.2	14	1.3	11	1.1	12	2.1	07	2.0	06	2.8	07	1.4	03	1.1	02	1.4	1.7
23	08	1.9	d18	0.8	15	0.9	28	1.3	12	2.4	11	2.6	10	3.4	07	1.8	08	2.6	07	1.2	03	1.0	31	2.6	1.8

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS) FEBRUARY, 1942

Force (0-12)				Direction															
Hour	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
3	-	-	28	-	-	2	-	10	7	7	1	-	-	-	-	-	-	1	-
9	-	-	28	2	-	5	4	14	-	-	-	-	-	-	-	1	-	1	1
15	-	-	28	3	1	4	4	10	1	1	-	-	-	-	-	2	-	1	1
21	-	-	28	-	-	3	2	11	4	4	1	-	1	-	-	-	-	1	1
Totals	-	-	-	5	1	14	10	45	12	12	2	-	1	-	-	3	-	4	3

TABLE XIVa - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY, PAMPLEMOUSSES, FOR FEBRUARY, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	..	..	..	..	..	..	..	..	..	..	..	..	0.1	0.1	..	..	0.1	..	1.9	..	..	..	..	..	0.1	0.2	..	..
2	..	..	..	..	..	0.2	..	..	..	..	..	..	0.3	..	..	..	..	..	0.2	..	..	..	..	..	0.8	..	..	..
3	..	..	0.4	..	..	..	..	0.7	2.9	..	..	..	..	0.1	0.7	..	..	..	..	..	..	..	..	..	..	0.6	..	..
4	..	..	..	..	..	..	0.7	0.9	0.6	..	..	..	..	..	0.1	..	..	..	0.2	..	..	..	..	..	0.1	..	0.1	..
5	..	..	0.7	..	..	..	..	..	0.2	..	..	..	..	..	0.6	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	0.6	..	..	..	0.2	..	..	..	..	..	..	..	..	..
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.7	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..
10	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	0.5	0.5	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.8	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.1	..	..	..	..	..	..	0.8	..	..	..	0.8	..	..
14	..	..	..	..	..	..	..	..	0.9	..	..	..	..	..	..	..	..	..	..	..	..	6.2	..	..	..	0.1	..	0.2
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.7
16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.7
17	0.1	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5.0	..	0.2	..	..	..	..	1.2
18	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6.8	..	..	..	..	..	..	1.2
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10.0	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	23.2	..	..	..	..	..	..	3.1	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	3.9	3.3	..	..	..	..	..	0.1	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.2	..	..	..	..	..	..	..	..	..	..

TABLE XIVb - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS FOR THE MONTH OF FEBRUARY, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.5	5.9	..	..	..	4.9	..	1.0	..	..
2	..	..	..	..	1.0	..	..	..	..	3.6	..	..	..	..	0.3	..	..	..	7.6	4.8	..	..	..	4.5	..	..	..	..
3	..	..	..	..	0.3	..	0.2	..	..	..	..	..	..	..	..	..	..	..	0.5	..	..	..	..	4.0	..	0.1	..	..
4	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.2	0.8	0.2	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..
6	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	..	..	0.1	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	0.2	0.1	..
8	..	..	..	..	0.1	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	0.4
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	1.9
10	..	..	..	..	..	..	0.8	..	..	..	..	..	..	..	..	..	..	..	4.2	1.0	..	..	..	..	..	..	..	3.0
11	..	0.1	..	..	..	0.8	..	..	..	..	..	..	..	..	..	..	..	0.3	7.5	..	..	..	..	..	..	0.5	..	..
12	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	8.4	..	..	..	1.4	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.1	..	..	..	0.5	..	..	..	..	..	..	..	..	0.7
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	5.8	0.2	..	..	..	..	1.0
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	5.4	..	..	..	..	..	3.1
16	..	7.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6.6	..	..	5.2	0.6	2.6	..	..	..	..	..
17	..	1.4	..	..	..	..	..	0.8	..	..	..	0.5	14.0	..	..	..	..	0.1	2.2	..	5.2	0.3	3.2	..	..	..	..	1.5
18	..	..	..	..	..	..	..	..	..	..	..	..	1.0	..	..	..	..	1.9	0.1	..	..	0.2	4.2	..	..	..	..	2.7
19	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.6	..	..	..	4.3	..	0.1	..	..	1.0
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4.3	..	..	..	..	..
21	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	3.5	..	..	..	5.4	0.1	0.2	..	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7.2	..	..	..	5.7	0.3	..	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	0.6	7.1	..	..	..	5.7	0.1	0.1	..	..	..
24	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.8	6.6	..	..	..	5.2	..	..	..	..	0.3

TABLE XV - TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR FEBRUARY, 1942

RIVER SYSTEM	STATIONS	Approximate Altitude in feet	Total Fall		Normal in Inches	Number of Days
			Inches	Millimetres		
1	Mare Seche	20	2.29	58.2	5.59	9
	St Antoine	50	6.32	160.5	6.31	9
	Bel Mont	50	5.55	141.0	6.90	9
	Poudre d'Or	20	5.51	140.0	6.48	9
	Mon Loisir S.E.	300	4.81	122.2	7.77	20
	Forbach	300	4.89	124.2	7.29	11
	Couroupa	...	4.27	108.5	6.36	7
	Labourdonnais	290	5.43	138.0	8.42	7
	Mapou Water Works Office	...	6.11	155.2	...	11
	Beau Sejour	300	4.55	115.6	9.24	16
	Mont Piton	650	5.12	130.0	10.41	15
	Mon Choix	700	3.04	77.2	9.71	16
	Antoinette	640	5.60	142.2	9.99	19
	Mon Songe	620	6.13	155.7	9.94	21
	Botanical Gardens	325	2.52	64.0	8.97	19
	The Observatory	179	3.73	94.7	7.51	22
	Solitude	175	4.56	115.8	5.19	12
	St Andre - Cour	90	3.79	96.3	6.29	12
	La Nicoliere	...	8.13	206.5	11.87	21
	California	...	8.37	212.6	11.70	16
	Australia	...	7.48	190.0	...	16
2 & 3	Union Regnard Flacq S.E.	600	4.79	121.7	10.21	18
	Constance d'Arifat (L.G.)	100	4.02	102.1	8.53	15
	Rich Fund	600	6.96	176.6	9.71	21
	La Joffrette	...	4.54	115.3	...	15
	Belle Vue (Allendy)	...	4.87	123.7	8.80	17
4	Sans Souci	900	6.45	163.8	16.13	22
	Beau Champ (G.R.S.E.)	20	5.02	127.5	7.44	18
	Olivia	400	4.91	124.7	10.81	22
	Trois Ilots	...	...	...	...	..
	Belle Rive	400	5.81	147.6	10.44	22
	Sebastopol	700	...	...	...	..
	Bonne Veine	400	14.40	365.8	15.48	19
5	Rose Belle	850	5.22	132.6	17.65	24
	New Grove	650	7.24	173.9	...	25
	Mon Tresor	...	10.48	266.2	...	19
	Mon Desert (Carie)	75	3.81	96.8	8.04	15
	Ferney	20	5.10	129.5	11.45	16
	Sauveterre	...	3.02	76.7	...	16
	Tivoli	1300	9.67	245.6	17.69	18
	La Flora	1050	8.74	222.0	16.07	22
	Riche Bois Britannia	650	6.11	155.2	10.72	19
6	Britannia Estate	700	7.99	202.9	13.83	14
	Savannah Mill	200	3.92	89.6	10.32	12
	St Aubin	300	5.45	138.4	9.35	12
	St Avold	900	7.76	197.1	15.01	14
	Colmar	400	7.21	183.1	11.08	14
	Union S.E.	...	6.24	158.4	8.54	9
	Fontenelle	320	7.41	188.2	8.61	10
	Choisy	200	18.39	467.1	7.45	15
	Beau Bois	...	10.20	513.1	13.86	14
	Bel Air	...	6.14	156.0	8.70	10
	St Felix	...	10.75	273.1	...	10
7, 8, 9 & 10	Bel Ombre	40	9.21	233.9	8.49	13
	Beau Champ (B. du Cap)	70	6.37	161.8	7.82	14
	Frederica	...	8.98	226.8	...	11
	Pierrefonds	...	10.28	261.1	7.96	13
	Ste. Marie	...	6.56	166.6	...	15
	Hussonia	...	...	...	...	..
11	Curepipe Gardens	1840	9.71	246.7	17.16	20
	Mare aux Vacoas (G.E.)	1850	8.25	209.6	18.33	22
	Mare aux Vacoas (Arnaud)	1830	9.98	507.5	18.39	20
	La Marie Filter Beds	1700	5.83	148.1	14.60	20
	Sophie	...	...	...	...	..
	Reunion	1420	5.89	149.6	13.60	14
	Aerological Station	1193	8.57	217.6	13.15	21
	Phoenix	...	10.77	273.6	11.45	7
	Quatre Bornes	...	5.21	132.3	...	12
12	Quatre Bornes Board	1090	5.04	128.0	...	5
	Le Reduit Dep. of Agric.	1000	5.00	127.0	10.05	27
	Alma	1460	15.04	382.0	18.15	20
	Bagatelle	1250	10.17	258.3	14.10	13
	Highlands	1300	11.51	292.4	12.08	14
	Trianon	950	5.66	143.8	10.77	13
	ValOry	1100	...	...	10.75	..
	Bassin	...	7.47	189.7	9.20	10
	Hermitage	1450	11.43	290.3	15.57	14
	Ebene	...	5.61	142.5	...	14
	Mon Reve	...	6.69	169.9	...	14
	Mont Pevril	...	4.12	104.6	...	12
	Minissy	1150	8.21	208.5	...	14
	Plaisance	...	4.53	115.1	12.10	11
	La Ferme	350	6.85	174.0	...	18
13	Line Barracks	...	1.82	46.2	7.40	10
	Richelieu T.Res.Stn.	...	2.91	73.9	...	12
	Bega	...	7.75	196.9	...	13

TABLE XVI - PILOT BALLOON OBSERVATIONS FOR THE MONTH OF FEBRUARY, 1942

Date	Time	Surface		250 metres		500 metres		750 metres		1,000 metres		1,500 metres		2,000 metres		2,500 metres		3,000 metres		3,500 metres		4,000 metres	
		Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity
		o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.
1	09.16	265	7.6	254	4.9	227	3.6	185	2.7	195	2.0	135	1.8										
2	09.15	322	2.4	034	1.2	084	0.9	230	0.6	201	0.7	184	0.3										
3	09.07	067	4.8	065	7.1	069	5.7	051	2.8	059	6.4	055	1111										
4	09.12	073	5.3	084	2.5	079	4.3	090	6.0	095	5.4	112	4.0										
5	09.46	095	3.7	101	3.1	092	3.8	087	7.6	084	8.3	080	8.1										
6	09.10	066	7.1	075	5.6	082	5.0	081	11.8	079	13.2	079	11.6										
7	09.17	106	4.2	106	6.5	091	5.3	083	4.8	078	2.5												
8	09.17	058	6.1	065	8.1	077	6.7	075	7.1	062	4.6	069	7.6	103	2.7	332	2.6						
9	09.06	055	4.9	065	8.6	083	4.3	074	9.6	065	10.5	059	11.6										
10	09.19	073	3.7	054	4.7	065	6.6	064	6.7	060	6.2	067	5.4										
11	09.16	071	8.5	070	10.0	075	14.0	080	15.0	081	16.2	095	9.7										
12	09.02	064	9.3	073	11.1	075	6.5	088	5.7	079	4.4	046	5.4	027	2.4	087	6.0						
13	19.19	068	4.3	068	6.5	076	6.6	084	5.7	072	8.3	070	8.2										
14	09.00	056	6.0	087	5.2	078	11.2	074	9.1	070	9.1	076	7.3	075	6.0								
15	08.43	075	9.2	072	8.9	077	5.4	078	5.9	070	7.5	077	1.8	080	3.0								
16	09.00	109	4.6	095	7.1	091	9.9	073	5.4	095	4.5	099	6.1	106	7.3	128	3.6						
17	08.55	097	4.9	084	4.6	068	6.7	052	7.3	047	5.4	050	3.5	090	4.1	073	4.2						
18	08.55	356	6.3	011	4.5	037	5.3	042	5.5	029	5.9	348	4.1										
19	09.02	330	3.4	338	2.7	327	3.9	320	4.3	335	4.0	304	5.1										
20	09.12	349	2.0	336	2.9	307	3.5	290	3.8	283	4.6												
21	09.11	045	2.6	346	1.5	026	2.0	036	2.0	010	2.4	336	1.9										
22	09.12	115	3.3	090	1.8	103	3.5	097	4.0	112	3.5												
23	09.04	032	2.2	049	1.0	052	2.6	045	2.3	068	1.3	334	0.6										
24	09.00	093	3.5	099	4.0	083	7.2	076	7.1	065	6.1	077	4.2	007	2.7	335	3.3						
25	09.01	072	12.0	066	5.6	062	10.6	054	10.0	040	11.5	016	10.0	003	8.4								
26	09.23	053	8.6	048	4.8	054	4.7	057	4.8	060	7.6												
27	09.25	030	6.9	042	5.7	048	5.7	038	7.7	028	7.6												
28	09.07	005	2.5	013	3.9	007	7.4	358	7.8	348	8.9	333	8.9										

NEW SERIES (MONTHLY) VOL. XXVIII PART III

MAURITIUS
ROYAL ALFRED OBSERVATORY

LATITUDE 20°5' 39"S., - LONGITUDE 3^h 50^m 12.6"

RESULTS
OF
MAGNETICAL AND METEOROLOGICAL
OBSERVATIONS

FOR THE MONTH OF

MARCH, 1942

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DIRECTOR

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TABLE I - RESULTS OF MAGNETICAL OBSERVATIONS MADE DURING THE MONTH OF MARCH, 1942

Month and Day 1942	Mean Declination (West)	Mean Horizontal Force (C.G.S. Units)	Mean Vertical Force (C.G.S.) Units	Declination	Horizontal Force	Vertical Force
					Unit γ	
MAR.						
1	14°16'.0	.22393	.29964	19.5	65	46
2	16.6	373	971	14.0	53	26
3	17.1	368	967	12.5	47	46
4	17.6	388	963	11.5	35	50
5	17.8	401	963	15.3	98	43
6	17.1	376	967	10.7	42	35
7	17.6	418	960	18.6	40	59
8	16.9	402	960	10.3	65	37
9	17.0	393	966	9.0	53	29
10	17.9	403	963	8.0	37	28
11	17.1	418	962	7.8	29	30
12	16.8	428	959	8.7	47	29
13	16.4	...	...	9.0	..	..
14	...	...	...	...	..	..
15	17.2	420	961	6.2	46	24
16	17.4	422	...	6.8	15	..
17	17.7	422	958	8.0	24	30
18	17.1	428	956	10.7	86	37
19	18.4	...	956	10.0	..	34
20	...	414	...	...	17	..
21	17.6	404	958	12.0	62	28
22	...	...	...	...	..	..
23	18.1	407	959	10.0	49	30
24	17.8	416	958	11.5	52	21
25	18.2	424	957	8.0	54	25
26	17.0	416	956	11.0	130	37
27	18.0	...	960	6.0	...	14
28	17.7	...	960	6.8	...	12
29	17.6	...	955	10.0	..	36
30	17.8	419	955	7.5	65	32
31	17.2	420	957	9.0	45	26
Mean	14°17'.38	.22407	.29960	10'.30	52.3	32.5

Description of the Principal Magnetic Disturbances

Horizontal Force : 1st violent disturbance though of moderate amplitude during the second half of 1st. Disturbance starts at about 10h 45m with small pulsations; at 11h 30m sudden increase of about 25 γ followed by rapid decrease of 110 γ with subsequent sharp-peaked oscillations (50γ - 100 γ). Very rapid small pulsations are superposed on these wide variations. Absolute range during the disturbance 150 γ . Rapid superposed pulsations gradually disappear after 22h, but irregular fluctuations of 25 γ - 30 γ persist.

2nd gradual subsidence, during the first half of the day, of the disturbance of previous day. Irregular fluctuations of 25 γ - 30 γ persist between 0h and 6h.

3rd very moderately disturbed during second half; between 20h and 21h30m double wave of 15 γ - 30 γ .

4th slightly disturbed at end.

5th short-lived moderate disturbance from 18h ending on 6th. 3h. Mainly irregular features with small pulsations superposed. Absolute range : 125 γ .

6th and 7th - slightly disturbed.

8th, 9th & 10th : slightly disturbed in parts.

13th & 14th : very moderately disturbed - mainly irregular features

18th - second half and 19th : slightly disturbed.

20th & 21st : slightly disturbed.

24th 0h to 2h sharp positive wave of 40 γ .

26th 10h 45m - sudden commencement of a moderate disturbance ending gradually during the first hours of 27th. Large regular fluctuations with small pulsations superposed. Absolute range 140 γ .

29th Negative wave between 16h and 20h.

30th slightly disturbed at end. Small positive wave 20 γ between 21h and 22h.

T = .37411 : Mean Dip = 53°12'.44 : X = .21714 : Y = -.05531 : Z = .29960

* The daily range is the difference between the greatest and least hourly values

TABLE II - RESULTS OF ABSOLUTE DETERMINATIONS OF THE MAGNETIC ELEMENTS DURING THE MONTH OF MARCH, 1942

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d. h. m	° '	d. h. m	'	d. h. m	° '	
3.14.55	14.10.3	4.10.03	.22379	3.14.05	53.15.25	.29935
10.14.25	14.14.3	7. 9.31	.22422	10.14.35	53.11.56	.29936
17.14.21	14.13.5	11. 9.43	.22408	17.14.36	53.10.50	.29943
24.13.15	14.12.9	14. 9.40	.22430	24.13.27	53.08.62	.29937
31.14.08	14.12.3	18.11.00	.22464	31.14.17	53.10.12	.29941
		23. 9.34	.22398			
		26.10.03	.22472			

TABLE III - MAGNETIC DECLINATION (WEST) AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

MARCH, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
								14° +									
Midnight	17.5	17.5	18.5	17.3	18.0	19.0	17.3	17.0	19.0	19.0	18.0	17.5	17.7		18.0	17.5	Midnight
1	18.0	20.5	18.3	17.5	16.7	19.5	17.5	18.3	18.0	19.0	18.0	17.5	17.5		18.3	18.0	1
2	18.3	21.0	18.3	17.7	17.5	20.0	17.3	17.5	19.0	19.0	17.7	17.5	17.7		18.5	18.5	2
3	18.5	18.0	18.3	17.0	17.5	18.5	17.7	1713	17.5	17.0	18.0	17.3	18.0		17.0	18.5	3
4	17.5	18.0	18.0	17.7	17.3	18.3	17.0	18.4	17.3	18.0	18.0	16.7	18.0		17.0	18.5	4
5	18.0	17.0	18.0	17.7	18.0	18.0	18.3	17.0	12.0	18.0	17.5	17.0	17.0		18.0	18.3	5
6	18.5	14.0	17.5	18.0	17.7	12.0	17.7	16.0	12.0	17.7	16.0	16.5	17.5	17.0	18.0	18.0	6
7	20.0	12.0	18.5	16.5	19.5	17.5	19.0	15.0	12.0	19.0	17.5	17.5	20.0	18.0	18.5	18.7	7
8	21.3	17.0	20.0	18.7	21.7	20.3	21.5	17.5	15.0	20.0	18.5	19.0	20.0	19.0	19.7	19.3	8
9	23.5	19.5	21.5	21.5	26.0	20.7	28.0	21.0	20.0	21.5	20.5	20.7	19.7	19.7	19.7	20.3	9
10	23.0	20.0	22.5	23.5	24.0	21.7	28.3	20.0	21.0	21.3	19.3	20.7	19.0	19.5	19.0	20.0	10
11	2[illegible]	19.5	22.0	23.0	20.0	19.5	24.0	18.0	20.3	20.0	18.3	19.0	18.0	18.0	17.5	18.0	11
Noon	20.0	18.0	17.7	19.0	17.0	16.3	21.0	15.7	19.0	19.5	18.3	17.5	16.0	15.0	17.0	17.0	Noon
13	19.5	14.5	13.0	15.0	12.5	13.5	16.0	13.0	18.0	18.0	16.0	15.0	12.5	15.5	15.5	15.0	13
14	10.0	12.0	10.0	12.5	11.0	11.7	11.0	11.0	13.0	15.7	13.0	13.0	12.0	15.0	13.5	13.5	14
15	04.0	12.0	10.7	12.0	10.7	11.0	09.7	10.7	13.0	13.5	12.7	12.0	11.0	14.0	13.5	13.5	15
16	05.0	14.5	11.5	14.3	12.0	12.0	10.0	12.0	14.0	14.0	13.5	12.7	11.0	14.5	15.0	14.3	16
17	06.0	[illegible]	14.0	16.0	15.0	14.5	13.0	15.0	16.5	15.7	15.5	15.0	13.0	16.3	16.5	16.5	17
18	08.0	[illegible]	[illegible]	[illegible]	[illegible]	15.7	14.7	17.0	17.5	17.0	17.0	16.5	14.5	16.5	17.3	17.3	18
19	[illegible]	[illegible]	17.7	[illegible]	17.0	17.7	17.0	18.0	17.7	17.7	17.0	16.7	16.0	18.5	17.0	17.5	19
20	13.0	17.0	18.0	17.7	17.0	17.5	17.0	18.5	17.3	17.5	17.0	17.0	16.7	17.5	17.0	17.0	20
21	15.0	17.3	16.0	19.0	18.0	17.5	18.0	20.0	20.0	17.5	17.3	17.0	17.0	17.5	17.0	17.0	21
22	17.5	17.5	17.3	17.5	22.3	17.5	15.5	20.0	19.0	18.0	17.5	17.0	17.5	17.3	18.0	17.0	22
23	20.0	18.0	17.5	17.5	22.0	17.3	15.3	18.0	19.0	17.5	17.5	17.3	17.5	17.5	17.3	17.3	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
							14° +										
Midnight	17.7	18.3	18.7		[illegible]		18.5	18.5	18.3	18.5	18.5	19.0	18.5	19.0	19.0	18.2	Midnight
1	18.0	[illegible]	[illegible]		[illegible]		18.7	17.5	18.5	18.5	18.7	19.0	18.5	19.3	18.7	18.3	1
2	18.0	18.5	18.5		[illegible]		19.0	19.0	18.7	18.7	18.5	19.3	18.5	19.3	19.3	18.5	2
3	18.2	18.3	18.0	19.[illegible]	[illegible]		18.5	19.3	19.0	18.5	18.6	19.0	18.3	19.0	19.0	18.1	3
4	18.5	18.5	18.5	19.5	18.[illegible]		16.5	19.5	19.0	18.5	19.0	18.5	18.3	18.7	18.7	18.1	4
5	18.0	18.3	19.0	19.5	18.7		18.0	19.0	19.0	18.5	18.5	18.0	18.3	19.0	18.5	17.9	5
6	17.3	18.3	19.0	19.0	18.5	19.0	18.0	19.5	19.0	18.5	18.7	18.0	18.3	19.0	18.5	17.6	6
7	18.7	19.0	20.0	18.0	19.0	19.3	19.5	21.5	20.0	19.0	19.0	18.5	20.0	20.3	19.5	18.4	7
8	20.0	21.0	22.0	19.0	21.0	20.5	22.0	23.0	22.0	20.0	19.0	20.3	23.0	21.0	21.0	20.2	8
9	21.3	22.0	23.0	18.0	23.0	20.5	23.5	20.5	22.5	21.0	20.0	20.3	21.0	20.0	20.0	21.5	9
10	21.5	20:0	21.0	19.0	20.3	21.0	22.5	22.0	21.0	20.3	21.0	19.5	19.7	19.0	19.0	21.1	10
11	20.7	17.0	20.0	17.0	17.0	20:0	20.0	19.5	19.5	18.0	20.0	18.5	17.5	17.5	17.0	19.3	11
Noon	18.3	15.0	17.5	15.0	13.5	19.0	[illegible]	17.0	18.3	15.0	19.0	16.0	16.3	16.5	14.0	17.3	Noon
13	15.0	11.5	15.0	12.5	11.5	18.5	[illegible]	13.5	15.7	12.0	16.5	14.0	14.0	14.0	12.7	14.5	13
14	13.5	11.3	13.5	11.0	11.0	14.5	13.5	11.5	14.5	10.0	15.0	13.5	13.0	13.5	12.0	12.5	14
15	13.7	12.5	13.0	13.0	12.5	14.0	13.5	12.5	14.5	11.0	15.0	14.5	14.5	14.5	14.0	12.3	15
16	14.5	14.5	14.5	15.0	15.0	15.0	14.0	14.0	14.7	13.0	15.5	16.0	14.7	15.0	13.5	13.4	16
17	16.0	16.0	17.0	17.0	17.0	17.0	16.0	16.0	16.5	15.0	16.3	17.5	15.5	16.0	15.0	15.0	17
18	17.5	17.0	17.7	18.0	17.7	18.3	17.0	17.0	17.0	17.0	17.0	17.5	16.3	17.0	16.5	16.6	18
19	17.7	16.5	18.0	18.3	18.7	18.5	17.5	17.5	17.3	17.3	17.3	17.5	17.0	17.3	17.0	17.[illegible]	19
20	17.5	16.7	19.0	18.5	19.0	18.5	19.0	17.5	17.7	17.5	17.5	17.5	17.0	16.7	17.3	17.3	20
21	17.5	17.0	19.7	18.0	21.0	18.3	18.3	17.7	18.0	17.7	17.7	17.7	18.0	18.0	17.3	17.8	21
22	17.7	18.0	19.5	18.7	19.3	18.5	19.0	17.7	18.0	17.5	17.7	18.0	18.0	18.5	17.5	18.0	22
23	[illegible]	17.7	19.5	18.0	19.5	18.0	18.7	17.7	18.3	17.5	18.5	18.0	18.3	18.7	17.3	18.1	23

TABLE IV - MAGNETIC HORIZONTAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature in the Magnet Chamber)

MARCH, 1942

.22000 + (C.G.S. UNIT)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	400	390	381	382	400	365	392	425	410	385	416	412	425		413	416	Midnight
1	403	385	381	385	410	355	395	420	401	397	421	413	425		410	419	1
2	401	380	382	389	407	367	401	415	402	393	425	414	427		417	420	2
3	399	375	385	399	412	370	415	415	395	420	423	418	425		425	421	3
4	402	375	387	390	410	370	403	406	395	400	425	421	425		425	421	4
5	405	395	382	393	406	373	410	427	420	398	425	421	427		420	423	5
6	419	403	378	396	407	379	414	427	423	397	427	421	427	429	422	422	6
7	412	375	375	392	409	373	427	415	420	395	417	422	433	431	422	422	7
8	411	367	373	380	407	366	426	415	410	390	415	423	420	435	421	420	8
9	415	363	372	375	400	370	419	405	397	383	406	422	427	440	417	415	9
10	410	355	382	378	390	375	425	393	400	395	415	430	427	450	423	417	10
11	420	350	375	381	408	380	432	403	390	410	430	450	450	440	435	425	11
Noon	370	357	360	390	420	387	428	407	370	415	435	459	453	425	440	431	Noon
13	400	365	365	385	422	375	425	407	380	409	435	445	425	441	440	430	13
14	420	376	355	380	416	365	427	401	387	405	431	443	404	443	440	431	14
15	410	375	357	378	409	363	410	391	383	405	428	442	391	430	429	429	15
16	400	365	358	379	400	368	412	397	381	400	412	439	385	397	420	429	16
17	380	368	340	379	400	373	412	397	382	410	408	430	355	390	405	421	17
18	360	371	355	387	400	371	413	395	387	412	408	423	358	392	394	420	18
19	355	367	350	393	415	390	420	390	390	409	409	423	370	387	410	419	19
20	367	371	343	394	423	395	425	389	387	408	409	424	387	409	416	419	20
21	360	375	365	400	385	393	425	375	375	400	409	425	400	402	412	417	21
22	360	375	360	410	352	393	429	362	381	399	411	427		401	403	418	22
23	365	383	371	397	325	397	432	375	387	415	412	425		410	413	420	23

.22000 + (C.G.S. UNIT)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
Midnight	422	421	415	422	410		408	391	415	412				412	400	404	Midnight
1	421	410	432	425	410		407	410	416	412				416	407	415	1
2	421	423	425	415	414		402	400	415	413				413	412	406	2
3	422	425	437	419	417		403	403	418	413				414	414	409	3
4	423	427	430	408	420		417	405	419	419				415	415	408	4
5	426	424	432	413	425		410	412	418	420				414	419	412	5
6	426	425	437	404	420	403	409	415	419	423				415	418	413	6
7	420	426	438	401	420	407	409	419	420	424				416	420	411	7
8	413	423	431	420	421	409	403	417	422	430				419	419	409	8
9	420	425	423	425	425	403	410	418	430	440				430	420	408	9
10	428	439	425	421	432	409	419	423	442	452				437	427	413	10
11	435	459	440	417	431	405	425	435	460	497				445	435	422	11
Noon	437	472	452	410	422	411	431	440	462	485				450	445	422	Noon
13	430	470	472	412	410	408	425	443	450	460				455	433	420	13
14	421	465	451	411	395	403	420	440	440	425				443	425	415	14
15	419	453	450	410	387	391	410	423	400	423			430	432	419	407	15
16	421	448	440	411	383	390	410	417	415	417			419	436	417	406	16
17	419	435	417	410	375	392	405	409	408	385			400	420	415	399	17
18	417	422	418	413	377	401	405	409	411	367			385	410	414	398	18
19	419	415	403	415	382	405	400	402	412	370			390	395	417	399	19
20	420	392	389	411	379	402	382	407	410	372			397	393	418	398	20
21	419	390	365	414	395	402	385	410	415	375			410	395	418	397	21
22	423	386		412	377	405	385	412	415	385			412	392	419	395	22
23	417	405		411	370	419	390	415	415	390			412	390	417	397	23

TABLE V - MAGNETIC VERTICAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature in the Magnet Chamber)

MARCH, 1943

29000 + (C.G.S. UNIT)

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	967	971	971	971	967	973	970	962	970	970	966	965	962		965	963	Midnight
1	966	969	970	970	965	971	969	961	967	970	966	965	961		964	962	1
2	965	972	969	964	969	969	963	974	967	965	967	965	962		964	962	2
3	966	965	967	965	965	969	965	963	966	963	967	965	963		964	962	3
4	965	967	966	966	963	969	964	963	965	965	967	964	963		963	961	4
5	966	968	967	967	964	969	965	962	959	966	968	964	961		964	961	5
6	967	960	967	965	965	969	964	959	960	966	965	963	962	963	964	962	6
7	971	965	971	969	970	971	965	960	960	969	967	964	965	966	966	964	7
8	975	981	977	979	978	981	972	969	971	972	971	968	965	968	967	967	8
9	975	982	979	983	980	981	983	974	979	973	971	966	961	963	964	969	9
10	969	981	975	979	973	976	981	967	980	970	964	961	953	961	962	967	10
11	957	975	969	969	960	967	985	956	974	964	959	951	948	960	957	961	11
Noon	957	965	950	950	945	951	945	945	965	955	954	946		959	951	953	Noon
13	945	957	939	933	937	946	931	938	956	950	946	943		954	946	943	13
14	929	959	935	933	940	949	926	937	951	945	941	939		951	943	935	14
15	939	962	949	940	948	951	931	945	953	947	943	946	945	952	948		15
16	945	971	957	949	957	958	942	951	961	954	954	956	952	961	955		16
17	960	981	967	957	965	965	950	960	968	960	963	964	963	969	961		17
18	970	983	971	964	964	967	956	964	967	962	965	964	971	968	967		18
19	973	979	973	965	962	970	961	965	967	963	965	963	971	968	964	960	19
20	975	976	977	965	961	969	959	967	966	962	965	962	969	966	963	961	20
21	975	973	981	970	965	969	959	967	970	961	965	961	969	967	963	961	21
22	975	974	977	965	979	970	961	971	969	967	966	962		967	967	962	22
23	973	973	975	968	981	970	961	969	971	968	965	962		966	964	963	23

29000 + (C.G.S. UNIT)

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day / Hour
Midnight	962	961	965		964		963	965	962	961	963	961	959	961	959	965	Midnight
1	961	960	964		963		964	961	962	961	962	961	961	960	961	961	1
2	961	960	961		962		965	965	962	962	962	961	959	960	961	965	2
3	961	959	958	961	961		964	964	962	961	962	962	958	960	961	963	3
4	961	959	959	962	961		961	963	961	961	961	962	959	961	961	963	4
5	961	959	960	961	960		961	962	961	961	962	961	960	961	961	963	5
6	961	960	961	961	960	963	962	962	961	960	961	961	959	962	961	963	6
7	965	961	963	961	963	966	964	965	961	961	963	962	963	965	963	965	7
8	970	966	967	964	968	971	970	966	965	962	965	965	969	962	966	970	8
9	970	963	965	960	961	971	963	960	960	960	965	963	960	955	961	969	9
10	966	954	958	961	949	970	951	956	954	955	965	959	945	950	955	964	10
11	959	949	957	957	945	962	954	951	950	945	963	954	938	945	951	958	11
Noon	947	941	951	950	941	953	946	946	945	940	950	953	934	943	945	949	Noon
13	940	933	941	943	941	946	940	948	940	930	951	959	933	936	940	942	13
14	940	937	933	941	941	947	940	947	941	931	959	949	940	933	941	941	14
15	943	942	934	946	947	953	946	945	950	944	952	955	949	937	946	946	15
16	950	949	939	952	954	961	953	952	956	951	955	959	953	944	951	952	16
17	954	955	950	957	961	964	960	956	960	957	957	961	957	950	957	960	17
18	957	959	953	959	964	963	961	959	961	965	959	961	962	955	961	963	18
19	959	959	956	961	963	962	961	961	960	967	960	961	965	961	961	964	19
20	960	961	960	961	964	961	963	961	960	964	960	960	963	960	961	964	20
21	960	967	964	961	969	963	964	961	960	966	961	961	962	963	962	965	21
22	962	970	967	964	965	965	966	961	961	965	961	960	962	962	961	964	22
23	961	969	965	964	968	963	965	962	961	965	963	960	961	964	961	966	23

TABLE VI - RESULTS OF METEOROLOGICAL OBSERVATIONS MADE AT THE AEROLOGICAL STATION, VACOAS (424.5 metres above mean sea level) DURING THE MONTH OF MARCH, 1942

Month and Day 1942	Observations at 10 a.m						Wind			Temperature of the Air							Rainfall			
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat. = 100)	Vapour Pressure	Direction	Velocity	Amount of Cloud (Scale 0-10)	3h	9h	15h	21h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Cassella Pluviograph	Duration	Duration of Bright Sunshine	Percentage of Possible Sunshine
MARCH	mbs	°C	°C	°C	%	mbs	o	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms	mins	hrs	%
1	963.3	26.2	2.6	22.4	80	27.1	330	1.8	9	22.5	25.8	28.1	24.1	29.3	22.2	7.1	10.4	105	7.5	60
2	957.1	26.1	2.4	22.6	81	27.4	CALM		10	22.1	26.1	27.9	23.0	29.8	22.1	7.7	1.0	30	4.4	36
3	969.9	27.5	2.4	24.1	82	30.0	85	2.0	5	22.4	27.2	27.3	22.8	30.3	22.3	8.0	0.2	5	5.6	46
4	967.4	26.7	3.6	21.4	73	25.5	90	4.0	5	22.0	26.3	27.8	23.5	29.0	21.9	7.1	...	..	11.1	90
5	967.3	26.5	2.4	23.1	82	28.3	90	3.3	9	22.8	26.4	27.8	23.0	28.9	23.0	5.9	2.2	55	8.2	66
6	966.7	26.7	2.8	22.6	78	27.4	95	3.1	8	22.8	26.3	27.9	23.0	29.4	22.8	6.6	4.5	25	9.0	73
7	965.9	26.0	2.4	22.5	81	27.3	100	3.6	7	22.4	25.5	25.2	22.4	27.7	22.4	5.3	1.7	105	5.9	48
8	965.7	26.5	3.1	22.0	77	26.4	95	4.0	3	22.0	26.1	24.0	22.7	28.1	21.9	6.2	1.1	15	5.4	44
9	966.5	26.1	2.2	23.0	83	28.1	90	2.2	8	22.7	25.5	28.3	23.0	29.5	22.6	6.9	2.7	60	8.3	68
10	966.6	24.3	1.6	22.0	87	26.4	110	1.8	9	22.6	25.2	26.4	22.5	28.0	21.5	6.5	4.8	155	5.7	47
11	964.8	26.1	3.4	21.0	74	24.9	80	5.4	5	21.5	25.7	27.0	22.6	28.5	21.5	7.0	2.4	50	10.3	84
12	964.8	25.5	3.3	20.6	74	24.2	90	4.5	6	21.6	24.9	26.9	22.4	27.8	21.3	6.5	0.9	35	9.4	77
13	965.0	26.7	3.3	21.8	75	26.1	75	2.0	5	21.5	26.2	27.7	22.6	28.9	21.9	7.0	1.1	20	9.7	80
14	965.1	26.5	3.7	21.0	72	24.9	60	2.2	5	22.1	26.1	27.5	22.1	29.6	22.1	7.5	0.1	5	7.4	61
15	964.5	27.6	6.4	17.5	54	20.0	CALM		1	19.5	27.4	27.9	22.0	29.1	19.4	9.7	...	...	9.9	82
16	964.3	26.2	3.5	20.9	73	24.7	90	1.8	5	21.4	25.6	27.5	22.1	27.9	22.3	7.6	0.3	10	10.0	82
17	964.2	26.0	3.3	21.1	75	25.0	90	2.5	4	21.5	25.4	25.7	22.5	29.0	21.0	8.0	0.9	25	10.5	86
18	964.7	26.0	3.5	20.7	73	24.4	90	6.7	8	21.9	25.5	26.1	22.2	27.7	21.7	6.0	3.7	40	7.1	59
19	964.5	26.5	4.0	21.5	74	25.6	90	3.0	4	20.8	26.3	27.5	21.8	29.5	20.6	8.9	...	..	10.9	90
20	963.9	27.4	4.1	21.3	69	25.3	100	1.3	3	21.0	27.0	27.3	22.2	29.7	20.8	8.9	2.1	95	7.8	65
21	961.1	27.8	5.2	20.1	63	23.5	CALM		3	19.8	28.0	26.6	23.0	29.8	19.6	10.2	...	...	5.1	42
22	962.0	25.2	1.3	22.4	85	27.1	130	0.9	9	22.0	25.3	23.2	21.7	28.5	21.6	6.9	27.5	205	2.4	20
23	961.7	26.0	2.3	21.9	78	26.3	80	1.8	7	21.3	26.0	20.5	20.6	28.9	21.0	7.9	55.9	150	4.1	35
24	962.3	26.0	2.6	22.2	80	26.8	CALM		7	20.5	25.8	22.5	21.9	28.5	20.5	7.9	24.0	155	4.8	40
25	962.4	26.7	3.3	21.8	75	26.1	CALM		7	21.6	26.5	25.0	22.1	27.6	21.2	6.4	53.9	85	6.5	54
26	962.7	25.7	2.6	21.9	80	26.3	CALM		8	21.1	25.4	23.2	21.3	29.1	21.1	8.0	28.0	85	4.7	39
27	962.0	24.1	1.7	21.6	86	25.8	90	...	10	21.5	23.7	22.3	21.5	25.8	21.5	4.3	23.4	355	0.1	1
28	961.6	22.9	1.1	21.2	90	25.2	115	5.4	10	21.7	22.6	23.3	22.3	26.3	21.7	4.6	19.3	405	2.0	17
29	960.6	22.8	0.8	21.6	93	25.8	90	8.9	10	21.9	22.0	23.6	22.4	25.0	21.8	3.2	58.1	550	0.9	8
30	960.4	24.8	1.3	22.9	89	27.9	90	5.6	7	22.5	24.6	25.0	...	26.5	22.3	4.2	3.2	90	6.9	58
31	959.3	24.1	1.4	22.0	88	26.4	145	7.2	9	...	...	25.4	...	26.0	22.8	3.2	1.0	100	7.0	59
Mean	964.1	25.9	2.9	21.7	78.2	26.0	...	2.8	6.6	21.7	25.6	25.9	22.4	28.4	21.6	6.8	334.4	30%5	6.73	55.4
Average	964.6	24.5	2.6	20.8	79.9	24.6	...	3.5	6.7	...	...	...	...	26.6	20.2	6.4	3096	...	6.95	57.3
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

EXCESS OF CERTAIN ELEMENTS AT PAMPLEMOUSSES OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	+ 40.8 mbs	Amount of Rain	- 24.2 mms
Temperature of the Air	+ 3.0 °C	Durationof Sunshine	+ 56.4 hrs
Vapour Pressure	+ 2.6 mbs	Mean of Maximum Temperature	+ 2.2°C
Relative Humidity	- 6.3 %	Mean of Minimum Temperature	+ 1.6°C
Velocity of Wind	+ 1.1 m.p.s.	Absolute Maximum Temperature	+ 2.5°C
Amount of Cloud	- 0.5	Absolute Minimum Temperature	+ 2.2°C

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADEDURING THE MONTH OF MARCH, 1942

Month and Day 1942	Atmospheric Pressure: Mean	Atmospheric Pressure: Excess above Average	Temperature of the Air: Daily Maximum	Temperature of the Air: Daily Minimum	Temperature of the Air: Daily Range	Temperature of the Air: Mean	Temperature of the Air: Excess above Average	Excess of air temp over Evaporation Temperature	Temperature of the Dew Point: Mean	Temperature of the Dew Point: Excess above Average	Relative Humidity (Sat. = 100): Mean	Relative Humidity (Sat. = 100): Excess above average	Vapour Pressure	Minimum on the grass	Rainfall: Amount recorded by Dines Pluviograph	Rainfall: Duration	Amount of Evaporation	Mean Amount of Cloud (Scale 0-10)
MAR.	mbs	mbs	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C	mms	min	mms	
1	[illegible]	- 0.9	31.1	23.9	7.2	27.5	+ 1.9	2.1	24.5	+ 2.3	84	+ 2	30.8	20.7	0.2	10	3.2	6.9
2	[illegible]	+ 2.5	32.8	24.3	8.5	27.6	+ 2.0	1.8	25.0	+ 2.8	86	+ 4	31.7	21.2	2.3	20	6.0	6.6
3	1008.3	+ 3.3	31.2	23.7	7.5	27.0	+ 1.4	2.2	23.8	+ 1.6	83	+ 1	29.5	22.0	0.0	..	6.1	4.8
4	1007.8	+ 2.8	31.2	22.0	9.2	26.6	+ 1.1	2.8	22.5	+ 0.3	78	- 4	27.3	17.9	0.0	..	5.7	3.4
5	1007.6	+ 2.5	30.7	[illegible]	6.1	27.1	+ 1.6	2.7	23.2	+ 1.0	79	- 3	28.4	20.3	1.0	55	7.2	4.4
6	1006.5	+ 1.4	31.1	24.9	6.2	27.4	+ 1.9	2.5	23.8	+ 1.6	81	- 1	29.5	20.5	0.0	..	6.6	3.5
7	1005.9	+ 0.7	30.9	24.1	6.8	26.8	+ 1.3	2.7	22.8	+ 0.6	79	- 3	27.8	20.9	0.1	10	6.4	[illegible]
8	1006.2	+ 1.0	30.2	23.0	7.2	26.3	+ 0.8	2.4	22.8	+ 0.6	81	- 1	27.8	17.9	1.1	45	6.0	5.5
9	1007.2	+ 1.9	31.1	24.5	6.6	27.4	+ 2.0	2.6	23.6	+ 1.5	80	- 2	29.1	21.3	4.5	60	5.7	4.0
10	1006.8	+ 1.5	30.1	24.0	6.1	26.3	+ 0.9	2.2	23.1	+ 1.0	83	+ 1	28.3	20.9	0.8	35	6.6	5.0
11	1005.0	- 0.3	30.8	23.3	7.5	26.7	+ 1.3	2.9	22.4	+ 0.3	77	- 5	27.1	19.0	1.0	50	5.1	4.0
12	1004.6	- 0.8	30.7	23.2	7.5	26.6	+ 1.2	3.1	22.0	- 0.1	76	- 6	26.4	19.0	1.8	30	7.5	4.0
13	1005.2	- 0.2	31.0	23.2	8.8	26.5	+ 1.2	2.6	22.7	+ 0.7	80	- 2	27.6	19.5	2.7	30	6.4	4.4
14	1004.9	- 0.6	31.1	22.9	8.2	26.6	+ 1.3	3.2	21.8	- 0.2	76	- 7	26.1	20.9	0.0	..	6.8	2.3
15	1004.3	- 1.2	31.9	21.6	10.3	25.9	+ 0.6	2.9	21.6	- 0.5	77	- 5	25.8	17.9	3.1	40	6.4	2.5
16	1003.9	- 1.7	31.2	22.0	9.2	26.1	+ 0.9	3.1	21.5	- 0.6	76	- 6	25.6	17.5	0.0	..	7.6	3.4
17	1003.9	- 1.8	31.2	22.3	8.9	26.5	+ 1.3	2.8	22.4	+ 0.3	78	- 4	27.1	19.5	3.2	20	6.9	3.7
18	1004.4	- 1.4	30.8	24.0	6.8	26.5	+ 1.3	3.2	21.7	- 0.4	75	- 8	26.0	21.3	2.6	20	7.8	5.3
19	1004.2	- 1.6	31.5	22.2	9.3	26.5	+ 1.4	3.7	20.9	- 1.1	71	- 12	24.7	17.9	0.0	..	7.3	2.2
20	1002.8	- 3.1	32.1	22.1	10.0	26.8	+ 1.7	3.1	22.3	+ 0.3	76	- 7	27.0	18.5	0.3	20	7.0	3.1
21	1001.4	- 4.5	31.9	22.8	9.1	26.1	+ 1.0	2.2	22.9	+ 0.9	83	0	27.9	19.2	0.3	15	7.0	4.3
22	1002.1	- 3.9	[illegible]	[illegible]	9.1	25.3	+ 0.2	1.5	23.1	+ 1.1	88	+ 5	28.3	19.4	43.5	260	4.3	5.3
23	1001.7	- 4.3	[illegible]	[illegible]	8.3	26.1	+ 1.1	1.8	23.5	+ 1.6	86	+ 3	29.0	20.1	0.3	15	7.9	5.7
24	1001.8	- 4.3	[illegible]	[illegible]	6.0	24.7	- 0.3	1.0	23.2	+ 1.3	91	+ 8	28.4	20.1	46.4	310	3.0	6.8
25	1002.3	- 3.8	[illegible]	22.9	7.4	25.3	+ 0.3	1.5	23.1	+ 1.2	88	+ 5	28.3	20.4	31.6	65	5.7	5.7
26	1002.5	- 3.6	30.0	22.3	7.7	25.4	+ 0.4	1.6	23.1	+ 1.2	[illegible]	+ 4	28.3	19.9	13.1	215	9.0	5.7
27	1002.0	- 4.2	27.7	23.1	4.6	24.6	- 0.3	1.1	23.0	+ 1.2	91	+ 8	28.1	21.6	11.1	230	5.7	9.8
28	1000.6	- 5.6	29.1	23.3	5.8	25.4	+ 0.5	1.6	23.1	+ 1.3	87	+ 4	28.3	21.8	15.7	210	2.3	9.1
29	999.8	- 6.5	28.4	23.1	5.3	25.3	+ 0.4	1.3	23.4	+ 1.6	89	+ 7	28.8	22.5	22.2	355	3.2	8.3
30	999.3	- 7.0	29.4	24.1	5.3	26.6	+ 1.7	2.5	23.0	+ 1.2	81	- 1	28.1	22.4	0.3	15	4.2	7.1
31	998.5	- 7.9	28.4	25.1	3.3	26.5	+ 1.7	3.3	21.6	- 0.1	75	- 7	25.8	22.0	0.0	..	5.4	8.2
Mean	100[illegible]	- 1.6	30.6	23.2	7.4	26.3	+ 1.1	2.4	22.8	+ 0.8	81.3	- 1.0	27.8	20.1	210.2	2135	6.0	5.1
Average	1005.6	...	28.9	22.3	6.6	25.2	...	2.2	22.0	...	82.3	...	26.4	19.9	220.4	2321	4.8	5.0
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

General Weather Conditions during the Month of March, 1942

On the 1st-2nd the cyclone reported at the end of February passed far to the south-south-west and south of Mauritius moving east-south-east. A cyclonic disturbance was centred on the 18th about 500 miles east-south-east of Diego Garcia. It moved east-south-eastand passed not far south of Cocos Keeling on the 24th-25th. On the 26th, a low pressure centre was located to the north of Mauritius moving south-south-west. By the 28th, it had recurved and was moving east-south-east. Having passed to the north of Mauritius on this course it passed close to the south of Rodrigues on the 31st, when it had developed into a weak cyclone.

Mean pressure for the month was 1.6 millibars below normal. It was appreciably below normal from the 20th onwards, being 7.9 millibars below on the 31st. Temperature was above normal on all days except two. Humidity was just below normal. Rainfall was 95% of the average but unevenly distributed, 55% being recorded fromthe 22nd-26th. Cloudiness was appreciably below and sunshine well above the normal.

TABLE VII (Cont'd) - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF MARCH, 1942

Month and Day 1942	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the Soil: 10 Feet	5 Feet	2 Feet	12 Inches	WEATHER
MAR.	hrs	%	m.p.s.	m.p.s.	°C	°C	°C	°C	0h 3h 6h 9h 12h 15h 18h 21h 24h
1	9.4	75	2.0	- 1.3	25.4	27.2	29.4	29.1	o c bc bcro bc
2	9.1	73	2.1	- 1.2	25.3	27.2	29.4	29.5	cr bc bc
3	9.1	73	2.0	- 1.3	25.2	27.2	29.4	29.6	bc b
44	11.8	95	2.5	- 0.8	25.3	27.2	29.5	29.6	b bc
5	11.4	92	3.0	- 0.3	25.3	27.2	29.5	29.8	b bcro bc b
6	10.1	81	3.0	- 0.3	25.5	27.2	29.5	29.8	b bc b
7	6.6	54	3.4	+ 0.1	25.7	27.3	29.5	29.8	b bc bcro b bo
8	8.3	63	3.3	0.0	25.5	27.3	29.6	29.6	b bcro bc cro c
9	10.6	86	3.1	- 0.2	25.6	27.3	29.5	29.7	bc b bc b bcR
10	9.7	79	3.0	- 0.3	25.5	27.3	29.6	29.7	bc b bc bcro cro bcro bc b
11	11.2	91	3.7	+ 0.4	25.6	27.3	29.6	29.6	b bcro bc bro
12	10.8	88	3.5	+ 0.2	25.7	27.4	29.5	29.6	b bcro bc cro
13	10.3	85	3.0	- 0.3	25.6	27.5	29.5	29.5	bcr bc b
14	9.6	79	2.4	- 0.8	25.6	27.4	29.5	29.6	b bc b bo
15	9.9	81	1.8	- 1.4	25.6	27.3	29.5	29.6	bo bc cr bc bcro bo
16	10.5	86	2.7	- 0.5	25.6	27.3	29.5	29.4	b bc bo
17	10.9	89	2.8	- 0.4	25.7	27,3	29.4	29.5	bcro b bc b bro
18	8.7	72	3.3	+ 0.1	25.7	27.4	29.4	29.9	bcro bc c bc bo
19	11.5	95	2.7	- 0.5	25.7	27.4	29.4	30.1	bo b bc b
20	11.4	94	2.1	- 1.1	25.7	27.5	29.4	30.0	bcro b bo
21	5.9	49	1.7	- 1.5	25.7	27.4	29.5	29.8	b bc ct cro bcro b
22	5.3	44	1.9	- 1.3	25.7	27.4	29.4	29.5	b bc otRR ctRR cl c
23	6.7	56	1.9	- 1.3	25.7	27.3	29.4	29.2	bc ct ct c bro
24	3.9	33	2.0	- 1.2	25.7	27.3	29.3	29.1	bcro b bc cR cRR oRR o bcl
25	7.6	63	1.9	- 1.3	25.7	27.5	29.3	28.9	bc c ctRR bc b
26	7.9	66	2.2	- 1.0	25.7	27.4	29.1	28.7	bo b bc bct crr oro
27	0.5	4	3.3	+ 0.1	25.7	27.5	29.0	28.7	oro or c oro o
28	7.1	60	4.5	+ 1.3	25.6	27.4	29.0	28.2	or o c cro c cro
29	4.7	40	5.5	+ 2.3	25.7	27.5	28.9	28.2	cr or cro bcro cro bcro
30	7.8	66	4.8	+ 1.6	25.7	27.6	28.8	28.3	cro bc bcro bc c
31	6.6	55	4.4	+ 1.2	25.7	27.6	28.7	28.6	c bc
Mean	8.55	70.1	2.89	- 0.35	25.59	2y.36	29.35	29.36	
Average	7.15	58.6	3.24	...	25.39	27.07	28.01	28.22	
Column	19	20	21	22	23	24	25	26	27

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF MARCH, 1942

Atmospheric Pressure	1009.5 mbs	at 10.00	on 3rd	977.0	at 4,15h,16h	on 31st
Temperature of the Air	32.8°C		on 2nd	21.6°C	at 06.00 hrs	on 15th
Daily range of temperature of the air	10.3°C		on 15th	3.3°C		on 31st
Temperature of the Dew Point	26.8°C	at 12.00	on 2nd	18.9°C	at 12.00	on 19th
Minimum on grass				17.5°C		on 16th
Relative Humidity	100 %	at 15.00	on 22nd	48.2 %	at 13.00	on 19th
Vapour Pressure	35.3 mbs	at 12.00	on 2nd	21.8 mbs	at 12.00	on 19th
Evaporation in 24 hrs	9.0 mms		on 26th	2.3 mms		on 28th
Wind velocity	7.3 m.p.s.	at 11.00	on 29th	0.6 m.p.s.		often
Rainfall in 24 hrs	62.5 mms	ending 15.00	on 25th			
Duration of Sunshine	11.8 hrs		on 4th	p.5 h		on 27th

Mean Day Temperature of Air 28.21°C Average 26.86°C Mean Night Temperature of Air 24.43°C Average 23.57°C

NUMBER OF DAYS OF

Mean Cloud Amount: 0	1 - 3	4 - 6	7 - 9	10	Rainfall: 0.1 - 0.9 mms	1.0 - 4.9 mms	5.0 - 9.9 mms	10.0 - 24.9 mms	25.0 & over mms	Lightning	Thunderstorm
...	8	15	7	1	7	10	...	4	3	1	...

TABLE VIII - ATMOSPHERIC PRESSURE IN MILLIBARS AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level. The cistern of the barometer is 55.2 metres above mean sea level)

MARCH, 1942

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	034	069	090	090	087	080	070	069	077	082	063	057	052	068	060	055	Midnight
1	034	064	088	083	081	076	065	061	073	079	060	053	050	061	051	051	1
2	028	061	083	081	080	072	061	060	071	075	056	050	048	054	045	046	2
3	020	056	080	076	076	067	059	051	070	071	050	041	040	049	041	042	3
4	020	060	076	071	073	066	054	050	068	070	049	040	037	047	039	040	4
5	023	064	079	073	071	061	056	051	059	071	049	040	040	047	040	040	5
6	030	070	080	073	072	061	058	057	070	073	050	042	041	051	042	041	6
7	032	076	083	079	077	067	061	060	070	077	052	050	050	055	046	044	7
8	039	081	090	081	079	070	062	063	072	079	056	053	052	060	050	048	8
9	042	086	092	086	082	072	064	068	076	080	055	059	060	061	051	049	9
10	042	087	095	089	081	075	064	069	080	076	055	058	061	059	051	045	10
11	041	084	090	082	080	073	062	067	077	074	051	050	060	052	049	041	11
Noon	040	075	083	080	079	068	060	063	071	069	048	044	055	046	042	033	Noon
13	034	071	078	074	072	060	053	060	066	060	041	040	049	039	033	026	13
14	030	068	076	070	070	053	050	060	061	058	034	032	041	030	031	020	14
15	028	063	070	066	066	049	049	051	060	052	034	031	040	029	029	019	15
16	030	062	070	064	062	050	047	053	060	051	035	030	040	030	027	020	16
17	033	070	070	070	066	064	051	059	062	056	037	032	046	033	030	022	17
18	041	073	072	070	069	054	051	060	068	060	041	040	049	040	033	030	18
19	050	080	079	073	074	059	059	061	073	061	049	042	054	045	040	039	19
20	059	083	087	081	079	067	061	069	080	064	055	050	061	051	046	042	20
21	065	091	091	087	080	071	069	072	081	067	061	051	069	060	052	047	21
22	070	093	092	090	082	074	071	077	083	070	061	056	071	061	058	049	22
23	071	092	091	090	081	072	070	079	086	069	060	056	046	033	030	022	23

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
Midnight	045	050	050	050	022	022	030	023	021	031	032	017	000	002	990	048	Midnight
1	045	048	047	049	020	020	020	019	020	030	029	013	997	999	981	044	1
2	041	044	042	049	015	012	014	012	014	023	027	015	991	993	974	040	2
3	040	039	040	041	010	010	011	011	012	018	020	004	989	989	971	035	3
4	039	040	040	036	003	008	014	011	011	014	020	001	986	982	970	033	4
5	036	041	041	035	003	008	016	010	012	016	018	008	993	982	974	034	5
6	040	041	045	040	009	011	014	012	016	019	020	009	998	990	981	037	6
7	043	047	049	041	011	016	018	019	023	023	023	013	003	994	990	042	7
8	050	051	052	044	015	020	021	021	030	030	026	014	010	000	994	046	8
9	051	058	052	045	020	028	024	030	032	033	023	020	015	005	999	049	9
10	050	054	051	042	019	027	023	031	032	031	026	020	013	009	996	049	10
11	046	051	051	038	020	025	022	029	029	028	023	017	011	007	994	046	11
Noon	038	043	049	028	017	024	019	021	021	021	021	010	002	998	991	041	Noon
13	030	039	040	018	011	018	008	015	020	015	015	999	990	990	981	034	13
14	026	031	030	010	008	015	007	011	017	011	011	992	985	985	977	029	14
15	021	029	022	001	003	013	009	007	016	012	011	991	981	980	970	026	15
16	023	031	022	000	005	016	004	009	015	012	010	990	982	979	970	026	16
17	026	033	026	001	006	019	004	012	017	020	009	991	990	980	976	029	17
18	039	030	030	003	009	020	009	013	021	024	012	995	992	983	980	033	18
19	036	042	036	011	013	026	016	016	027	030	016	001	001	990	989	038	19
20	041	049	045	020	020	032	020	022	032	032	019	006	002	992	994	044	20
21	047	051	050	024	023	034	024	026	040	040	021	011	001	000	000	048	21
22	050	052	051	027	027	034	029	026	041	040	023	010	009	[illegible]	002	051	22
23	050	050	050	025	026	031	027	022	040	038	021	003	003	993	000	050	23

TABLE IX - AMOUNT OR CLOUD AT EVERY HOUR OF THE DAY (0= CLEAR SKY, 10 = OVERCAST SKY)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
	MARCH, 1942																															
Midnight	9	8	6	1	4	1	0	1	9	5	2	2	8	2	0	0	10	4	0	6	1	1	6	8	5	0	10	10	8	8	9	4.6
1	10	8	7	1	3	1	0	1	9	5	1	2	5	2	0	0	5	4	0	6	1	1	6	8	5	0	10	10	8	8	8	4.4
2	10	8	7	1	3	1	1	1	4	5	1	2	7	2	0	0	3	4	0	8	3	1	5	8	5	0	10	10	8	8	8	4.3
3	10	8	7	1	3	1	1	1	3	2	2	2	4	2	0	1	1	4	0	8	3	1	5	3	4	0	10	10	6	8	9	3.9
4	9	8	3	1	4	1	1	1	2	2	4	2	5	2	0	1	1	4	1	8	2	1	5	3	4	0	10	10	6	8	7	3.7
5	8	4	4	1	5	1	2	1	3	2	6	2	6	1	1	1	1	6	2	3	2	1	4	3	5	1	10	10	m10	7	7	3.9
6	8	4	5	1	6	1	3	1	3	6	7	1	6	1	1	1	1	6	3	1	1	1	4	2	6	1	10	10	10	7	9	4.1
7	8	4	6	1	6	1	3	1	4	6	7	1	6	1	1	1	2	6	3	1	1	1	4	2	6	1	10	10	10	7	8	4.2
8	7	6	6	3	7	4	4	4	5	6	5	2	5	2	0	4	3	7	3	3	2	2	4	6	7	3	9	10	10	7	8	5.0
9	7	9	6	4	8	6	4	7	5	6	5	5	5	4	0	6	3	8	3	4	3	2	4	9	8	5	9	10	10	6	8	5.8
10	6	9	5	4	7	6	5	7	6	6	5	6	5	5	1	7	5	7	3	4	6	4	5	10	8	5	9	9	9	6	8	6.1
11	7	9	5	4	7	6	6	7	5	5	5	5	4	5	3	6	6	8	4	3	5	6	7	8	8	6	9	9	9	7	8	6.2
Noon	7	8	5	6	7	6	7	8	5	5	5	4	5	5	6	7	8	6	4	3	8	8	8	7	8	7	10	7	9	5	9	6.5
13	6	8	5	6	7	7	7	9	6	8	5	5	5	4	7	6	7	7	4	3	9	10	8	8	8	7	10	8	8	5	9	[illegible]
14	6	8	9	5	6	7	6	9	6	8	5	6	6	4	8	7	7	6	4	4	9	10	9	8	10	7	10	8	7	5	9	[illegible]
15	5	8	9	5	6	8	0	9	8	8	6	5	7	4	9	6	7	8	5	5	9	10	9	10	10	9	10	8	7	5	9	[illegible]
16	6	8	7	5	5	9	7	9	3	7	6	5	5	3	8	6	5	8	3	3	10	10	9	10	9	9	10	8	9	6	9	7.0
17	7	7	5	4	3	3	8	9	3	5	7	5	2	3	8	3	3	8	1	2	10	9	7	10	8	10	10	7	10	6	9	6.3
18	7	7	5	4	3	3	6	9	3	6	2	4	2	3	4	3	3	8	1	2	6	8	8	10	7	10	10	9	8	6	9	5.7
19	7	6	1	6	3	3	0	9	2	4	2	4	2	2	4	1	3	6	1	0	6	8	6	8	6	10	10	10	10	8	9	5.1
20	5	4	1	4	1	3	0	9	1	4	2	4	2	0	0	0	2	3	1	0	2	9	3	7	1	10	10	8	7	9	7	3.8
21	4	3	1	4	1	3	0	6	1	3	2	2	2	0	0	0	2	1	1	0	2	9	3	6	1	10	10	9	7	9	7	3.5
22	4	3	1	4	1	2	0	5	1	3	2	8	2	0	0	0	2	0	1	0	1	7	3	5	1	10	10	9	7	9	7	3.5
23	4	4	1	4	1	1	0	4	1	3	2	9	2	0	0	10	2	0	1	0	1	6	3	5	1	10	10	9	7	9	7	3.8

TABLE X - DURATION OF BRIGHT SUNSHINE AT EVERY HOUR OF THE DAY AS RECORDED BY THE CAMPBELL-STOKES SUNSHINE RECORDER

Hour Ending \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
	MARCH, 1942																															
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	hrs
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
7	0	40	56	57	40	53	54	37	45	30	28	28	20	35	50	48	50	16	43	33	50	38	24	30	2	34	0	0	0	0	25	16.3
8	20	52	50	58	60	57	50	60	60	60	60	60	53	60	60	60	60	58	60	60	60	60	60	60	60	60	0	50	0	30	60	26.8
9	52	0	53	55	60	60	60	60	60	60	60	47	60	60	60	60	60	60	60	60	57	60	56	60	60	60	0	60	0	60	51	27.1
10	56	33	60	60	45	60	32	55	60	60	60	60	60	60	60	60	60	55	60	60	54	60	60	0	60	60	0	47	30	60	60	26.7
11	58	60	60	60	60	60	30	60	60	53	60	60	60	60	60	60	60	56	60	60	48	42	60	25	55	60	10	56	45	60	44	27.8
Noon	36	60	60	60	60	60	26	60	60	60	60	60	60	47	60	60	60	60	60	60	18	23	39	54	42	60	1	60	31	60	32	25.8
13	60	60	60	60	60	60	32	49	60	60	60	60	60	60	60	60	60	60	60	60	38	1	55	4	48	60	0	60	32	60	22	25.5
14	60	60	11	60	60	60	42	0	60	45	60	60	60	60	28	60	60	57	60	60	8	32	22	0	0	60	0	53	40	60	16	21.9
15	60	60	9	60	60	60	60	60	60	60	60	60	60	60	0	60	60	53	60	60	0	0	0	0	8	24	0	38	58	42	32	20.3
16	60	58	60	60	60	60	50	52	60	60	60	60	60	32	53	23	40	30	60	60	0	0	0	0	58	0	10	0	31	31	52	20.6
17	58	9	60	60	60	0	5	27	40	35	50	60	60	20	60	60	55	10	60	60	0	0	2	0	30	0	5	0	7	0	0	14.8
18	56	53	10	58	58	15	0	0	14	0	45	32	2	7	55	20	30	5	47	50	[illegible]	0	34	0	30	0	0	0	11	0	1	10.9
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0

TABLE XI - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the Absolute Scale add 273)

MARCH, 1942

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	25.1	1.6	25.9	0.8	25.2	0.9	23.7	1.3	25.1	1.1	24.9	1.7	25.0	0.9	25.1	3.2	Midnight
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25.5	1.4	25.1	0.9	25.0	2.7	1
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25.3	1.2	25.0	0.9	24.7	1.8	2
3	24.7	1.2	24.9	0.8	24.9	1.1	23.0	1.2	25.2	1.1	25.2	1.1	24.7	0.9	23.8	1.5	3
4	24.2	1.0	24.8	0.8	24.8	1.0	22.7	0.9	25.2	0.6	25.3	1.2	24.6	0.7	23.1	1.7	4
5	24.1	1.0	24.3	0.4	24.3	1.0	22.2	110	25.1	1.0	25.6	1.2	24.7	0.8	24.2	1.0	5
6	24.0	1.0	24.7	0.7	24.4	1.1	22.0	1.1	24.9	0.9	25.3	1.0	24.8	0.9	23.1	1.2	6
7	[illegible]	0.5	25.9	0.3	26.1	1.4	23.5	1.4	26.0	1.2	26.2	1.3	26.1	1.2	24.7	1.0	7
8	26.1	0.7	28.1	1.2	27.9	2.3	27.4	2.3	27.9	2.7	27.9	2.1	27.8	2.5	27.4	2.4	8
9	28.1	2.1	28.1	1.3	28.7	3.4	28.8	3.7	28.2	2.6	29.0	3.1	29.1	3.3	28.9	3.7	9
10	29.5	2.7	29.2	2.1	29.6	3.8	29.9	4.7	28.8	3.0	29.8	3.8	29.0	4.0	29.4	4.2	10
11	[illegible]	3.0	30.5	3.1	30.1	4.2	30.1	5.4	29.5	3.8	30.8	4.7	30.0	4.8	29.3	4.2	11
Noon	30.1	3.1	31.5	2.5	30.8	4.7	30.5	4.9	30.2	4.9	30.4	4.4	29.1	4.1	29.3	4.2	Noon
13	30.7	3.1	31.0	3.8	30.9	4.2	30.7	5.4	30.2	4.9	30.9	4.9	29.8	4.8	29.7	4.7	13
14	31.0	3.8	31.4	3.8	29.2	3.3	30.7	5.8	30.1	5.0	31.0	5.3	30.2	5.2	25.7	1.6	14
15	31.0	3.9	32.3	4.1	28.0	2.1	30.3	5.9	30.1	5.0	30.0	4.3	29.2	5.1	28.5	3.2	15
16	30.9	4.0	31.6	4.3	29.3	2.9	29.6	4.0	29.9	5.7	30.0	4.4	29.6	4.9	27.7	3.0	16
17	29.7	3.0	28.1	2.9	29.8	2.9	29.1	4.5	29.1	5.0	27.8	2.5	27.0	2.7	[illegible]	2.7	17
18	29.1	2.8	28.1	2.6	28.0	2.8	28.0	3.8	28.0	3.9	27.5	3.2	26.9	2.7	27.0	2.2	18
19	[illegible]	1.9	27.8	1.8	26.7	1.7	26.8	2.5	26.3	2.5	26.3	2.2	26.1	2.4	25.9	1.9	19
20	27.0	1.4	26.9	1.6	26.1	1.6	26.1	1.9	25.5	1.6	26.0	1.4	25.3	2.3	25.1	1.5	20
21	[illegible]	2.1	26.1	1.1	25.1	1.2	26.0	1.6	25.1	1.5	25.5	1.2	25.1	2.4	25.2	1.2	21
22	27.1	2.0	25.8	1.0	24.4	1.2	25.4	1.2	24.9	1.5	25.3	1.1	25.3	2.9	25.5	1.4	22
23	26.9	1.9	25.4	0.9	24.1	1.1	25.3	1.2	24.6	1.5	25.1	1.0	24.9	2.8	25.4	1.4	23

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of air	Air	Excess of air	Air	Excess	Air	Excess	Air	Excess	Air	Excess	Air	Excess	Air	Excess	
Midnight	25.3	0.9	25.1	3.2	[illegible]	1.5	24.7	1.3	24.0	0.9	24.6	1.1	23.0	1.3	22.9	1.4	Midnight
1	25.2	1.2	24.5	0.9	[illegible]	1.3	24.4	1.2	24.0	1.0	[illegible]	1.1	22.7	1.4	22.7	1.4	1
2	25.0	1.1	24.2	1.0	23.6	1.5	24.1	1.4	23.8	1.0	24.2	1.1	22.8	1.4	22.4	1.3	2
3	25.0	1.0	24.1	0.9	23.4	1.4	24.0	1.3	23.0	1.3	[illegible]	[illegible]	22.4	1.2	22.4	1.4	3
4	24.9	1.1	24.1	1.0	24.0	1.1	24.1	1.4	23.9	0.9	24.1	1.1	22.2	1.1	22.7	1.2	4
5	24.5	0.8	24.1	1.1	24.1	1.1	23.4	1.3	22.2	0.5	24.0	1.0	22.1	1.1	22.1	1.4	5
6	25.0	1.0	24.3	1.0	24.4	1.1	23.3	1.2	23.5	0.8	23.9	1.0	21.6	1.2	[illegible]	1.1	6
7	26.1	1.5	25.0	1.0	25.1	0.8	24.1	1.1	24.0	1.0	24.3	1.0	22.6	1.2	23.4	1.2	7
8	27.7	2.4	27.2	2.1	27.1	2.2	27.2	3.1	26.9	2.0	27.9	3.4	26.7	2.6	26.3	2.3	8
9	[illegible]	3.4	27.7	2.8	28.6	4.3	28.2	4.5	28.1	3.2	28.9	4.7	28.4	5.2	28.8	4.6	9
10	29.5	3.5	28.7	3.6	29.2	4.4	29.0	4.2	29.0	4.0	[illegible]	5.1	29.8	6.8	29.6	5.4	10
11	30.1	4.3	28.3	2.8	30.1	5.0	29.8	5.9	29.9	4.7	30.0	5.7	30.1	5.5	30.1	5.9	11
Noon	30.4	4.4	29.3	4.2	30.2	5.8	30.1	5.9	30.1	5.4	30.1	5.9	31.0	5.7	30.9	6.4	Noon
13	30.8	5.0	29.9	4.9	30.7	6.2	30.2	6.2	30.6	5.9	30.3	6.0	31.0	5.5	31.0	6.3	13
14	31.0	5.8	29.1	4.4	30.3	5.4	30.6	6.0	30.7	6.4	30.7	5.7	29.9	4.6	30.9	6.1	14
15	30.3	4.7	28.9	3.0	29.9	5.7	30.0	6.0	30.2	5.4	30.3	6.3	28.0	2.3	29.3	4.8	15
16	29.9	4.6	29.1	4.5	29.3	5.3	29.1	5.0	29.8	4.9	29.0	5.8	29.0	3.0	28.9	4.9	16
17	29.1	4.0	26.3	1.4	28.1	3.5	28.7	4.6	28.1	3.3	28.7	5.4	29.1	3.9	28.2	4.8	17
18	28.0	3.1	26.3	1.6	27.4	3.4	27.3	3.4	27.0	2.5	27.1	4.1	27.3	4.3	27.0	4.0	18
19	[illegible]	2.1	25.8	1.7	26.1	2.3	26.1	2.4	26.1	1.9	26.1	3.0	26.1	3.1	26.0	2.8	19
20	26.3	1.8	25.1	1.4	25.6	1.7	25.4	1.8	25.9	1.9	25.3	2.3	25.1	2.1	25.0	2.0	20
21	24.2	2.0	25.2	1.6	25.5	1.5	25.1	1.9	25.4	1.4	24.5	1.9	24.2	1.9	24.6	1.8	21
22	26.1	1.7	24.8	1.7	25.1	1.2	24.9	1.7	25.2	1.3	24.0	1.9	24.0	1.8	24.4	1.5	22
23	25.1	0.8	24.2	1.3	25.1	1.3	24.2	1.2	24.8	1.2	23.1	1.8	23.1	1.4	24.7	1.5	23

TABLE XI (Ctd) - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the absolute scale add 273)

MARCH, 1942

Day / Hour	17		18		19		20		21		22		23		24		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	24.3	1.2	24.4	0.3	24.0	2.1	23.0	1.1	23.9	1.7	24.0	1.8	23.1	0.8	24.3	1.0	Midnight
1	24.0	0.9	24.3	0.1	23.4	2.1	22.8	1.1	23.5	1.5	23.8	1.1	23.3	0.4	23.9	0.9	1
2	24.0	1.0	24.3	0.1	23.5	1.8	23.8	1.1	23.7	1.6	23.5	1.0	23.6	0.7	23.6	0.8	2
3	23.2	0.9	24.2	1.0	23.1	1.5	24.1	1.1	23.7	1.4	22.9	1.0	23.5	0.7	23.1	1.0	3
4	22.9	0.9	24.1	1.1	23.0	1.4	23.4	1.2	23.5	1.4	22.9	1.0	23.4	0.8	23.0	0.9	4
5	22.9	0.9	24.1	1.2	23.0	1.3	22.8	1.5	23.1	1.2	22.8	1.0	23.0	0.8	23.1	0.9	5
6	22.6	0.8	24.1	1.4	22.6	1.5	22.1	1.2	23.0	1.2	23.3	1.0	22.7	0.7	23.1	1.0	6
7	24.0	1.0	25.7	2.4	24.2	1.4	23.0	0.8	24.2	1.1	24.0	0.9	24.3	1.0	24.0	0.7	7
8	27.0	2.8	27.0	2.8	27.2	3.1	27.0	2.1	26.7	2.6	27.0	2.7	27.1	2.1	27.6	2.2	8
9	28.5	4.1	28.0	4.0	28.7	4.7	28.9	3.8	29.0	3.8	29.9	4.8	27.4	2.0	28.2	3.0	9
10	29.6	4.6	29.3	5.4	30.0	6.3	29.8	4.8	30.0	4.4	30.4	5.3	27.3	2.2	25.8	0.8	10
11	30.1	5.7	29.8	5.9	30.6	6.5	31.1	5.9	30.2	4.2	31.0	4.8	28.4	2.8	27.0	1.7	11
Noon	30.5	6.0	30.0	6.2	30.8	7.8	31.1	6.1	30.0	4.1	30.7	4.6	30.0	3.8	28.6	2.8	Noon
13	30.6	5.8	29.8	6.0	31.1	8.0	30.9	5.8	31.1	3.9	28.8	2.2	30.9	4.2	27.0	1.8	13
14	30.2	5.0	30.2	6.0	31.0	7.5	31.1	5.8	29.1	3.7	26.0	0.1	29.4	3.2	26.3	1.2	14
15	30.5	5.5	29.3	5.5	30.2	6.9	31.3	6.2	28.9	3.8	24.3	0.0	28.7	2.5	25.4	[illegible]	15
16	29.2	4.5	28.6	5.3	29.4	6.2	30.8	5.7	26.7	1.7	24.3	0.3	27.8	2.6	23.3	0.2	16
17	28.7	4.3	27.9	4.6	28.7	5.6	29.4	4.5	26.9	1.9	24.4	0.3	27.9	2.6	23.3	0.3	17
18	27.6	3.5	27.1	4.0	27.2	4.2	28.2	3.4	26.1	1.6	24.6	0.5	27.7	2.7	24.1	0.2	18
19	25.8	2.4	26.1	3.1	26.0	3.0	27.1	2.4	25.2	1.2	24.7	0.5	26.7	1.6	24.0	0.4	19
20	25.1	1.6	25.1	2.5	25.2	2.2	26.0	1.9	25.1	1.2	24.0	0.7	25.5	1.4	24.0	1.0	20
21	24.6	0.8	24.7	2.4	25.1	2.1	25.2	1.6	24.8	1.3	23.9	0.8	25.1	1.8	23.9	0.7	21
22	24.5	0.7	24.2	2.1	24.7	1.7	24.8	1.7	24.2	1.1	23.8	0.8	25.0	1.6	23.6	0.7	22
23	24.5	0.5	24.2	2.2	23.8	1.1	24.1	1.3	[illegible]	1.1	23.6	0.7	24.3	1.0	23.8	0.8	23

Day / Hour	25		26		27		28		29		30		31		Mean		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	23.5	0.9	23.6	0.6	23.8	0.7	24.3	1.1	24.7	1.0	24.7	1.3	26.0	2.6	[illegible]	1.2	Midnight
1	23.2	0.9	23.3	0.7	23.9	0.8	24.1	1.0	24.8	0.8	24.8	1.1	26.0	2.6	24.2	1.2	1
2	[illegible]	0.8	22.9	0.8	24.0	0.8	24.0	0.9	24.9	1.3	24.9	1.0	26.0	2.8	24.2	1.2	2
3	[illegible]	0.9	22.5	0.5	24.1	0.8	23.6	0.4	24.2	1.0	24.9	1.4	25.8	2.7	23.9	1.1	3
4	23.3	1.0	22.5	0.5	23.7	0.7	23.7	0.7	24.3	0.6	25.0	1.1	25.1	2.0	23.8	1.0	4
5	23.1	0.8	22.4	0.4	23.2	0.5	23.5	0.6	23.6	0.4	25.1	1.2	25.3	2.2	23.6	1.0	5
6	23.2	0.8	22.3	0.4	23.1	0.9	23.5	0.6	24.0	0.9	24.9	1.6	25.4	2.2	23.6	1.1	6
7	23.0	0.9	23.6	0.7	24.2	0.9	23.9	0.9	24.3	1.0	25.3	1.4	26.0	2.9	24.6	1.2	7
8	26.2	2.0	26.5	1.3	24.9	1.0	24.2	0.8	23.9	0.4	26.2	1.6	26.7	2.5	26.9	2.7	8
9	27.8	2.8	28.5	3.2	25.9	1.6	25.7	1.6	24.5	0.6	27.8	2.9	27.5	3.4	28.2	3.3	9
10	28.4	2.8	28.6	2.9	26.3	2.0	27.1	2.6	27.0	1.9	28.0	3.2	28.1	3.9	28.9	3.9	10
11	28.9	2.7	29.6	3.7	27.3	2.3	28.0	3.2	27.1	2.1	28.4	3.4	28.1	3.4	29.5	4.2	11
Noon	29.9	3.8	29.5	3.7	27.2	2.7	28.4	3.3	25.1	1.0	28.7	3.6	27.3	3.3	29.7	4.5	Noon
13	29.2	3.9	29.8	3.8	26.4	1.4	28.7	3.9	27.0	1.8	29.3	4.1	27.1	3.6	29.9	4.6	13
14	26.2	1.5	29.6	3.8	24.8	1.3	28.5	3.5	27.2	2.2	29.2	4.1	27.2	3.5	29.3	4.2	14
15	24.0	0.6	28.2	3.0	23.6	0.6	26.2	2.1	27.7	2.6	28.0	3.6	28.0	4.1	[illegible]	3.8	15
16	25.5	1.2	27.7	2.5	24.2	0.7	27.0	2.1	26.0	1.7	28.0	3.7	27.8	4.7	27.4	3.7	16
17	26.9	2.4	25.5	1.0	24.9	1.2	26.9	2.5	25.3	1.1	27.1	3.1	27.0	4.1	27.6	3.1	17
18	27.0	2.0	24.2	0.9	24.2	1.0	25.2	1.3	25.5	1.4	26.7	2.7	26.5	4.0	26.8	2.7	18
19	26.2	1.5	24.2	0.8	24.1	1.1	24.4	0.5	24.6	1.4	26.1	2.8	26.1	3.5	25.9	1.9	19
20	24.7	0.7	23.6	0.8	24.0	1.0	24.6	0.8	24.8	1.7	26.1	2.4	26.0	3.7	25.3	1.6	20
21	25.1	1.8	23.9	0.7	24.0	0.7	23.5	0.7	24.0	0.9	24.7	1.0	25.1	1.1	[illegible]	1.5	21
22	23.7	0.6	23.9	[illegible]	24.0	1.0	24.9	1.7	25.2	1.2	26.0	2.8	25.4	3.8	24.8	1.5	22
23	24.3	1.0	23.8	0.8	23.4	0.4	23.8	0.7	24.0	1.0	25.2	1.3	25.9	2.6	24.6	1.4	23

TABLE XII - DIRECTION AND VELOCITY OF THE WIND AT EVERY HOUR OF THE DAY AS RECORDED BY THE ROBINSON CUP ANEMOMETER DURING THE MONTH OF MARCH, 1942

The directions are given in points and the values indicate the direction from which the wind blows counting from North (0), East (8), South (16) and West (24)

The velocities are given in metres per second using the factor 2.2
(The days on which the Normal Trade Winds are interrupted are indicated by an asterisk *)

M A R C H , 1942

Hour \ Day	1		2 *		3 *		4		5		6		7		8		9		10		11		12		13		14		15 *		16	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Mid-night	01	1.7	32	1.5	11	1.6	10	1.1	11	1.9	12	1.9	10	1.6	10	2.7	10	2.5	10	2.1	11	2.1	10	2.5	11	1.8	10	2.6	11	1.5	12	1.1
1	01	1.2	07	1.3	11	1.4	10	0.7	11	1.8	12	2.3	10	2.2	12	2.9	10	2.7	10	2.0	11	2.0	11	2.6	11	2.0	10	2.5	11	1.7	12	1.1
2	02	1.9	11	1.8	11	1.6	10	1.1	11	2.2	12	1.8	10	1.6	10	2.4	11	2.3	10	2.0	11	1.7	11	2.6	10	2.2	10	2.3	11	1.7	12	1.1
3	02	0.7	11	1.2	11	1.8	10	0.8	11	2.6	12	2.1	10	1.9	10	0.7	11	2.1	10	2.2	11	1.5	11	2.3	12	1.5	10	2.5	11	2.0	12	1.1
4	02	0.6	11	1.1	11	1.6	10	1.0	10	2.7	11	2.1	10	1.8	10	1.1	11	2.1	10	2.1	10	2.2	11	2.4	11	2.2	10	2.8	11	1.7	12	1.0
5	02	1.1	11	1.4	11	1.6	10	0.6	11	2.2	11	3.6	10	1.7	10	2.1	11	2.3	10	1.8	11	3.2	11	2.0	08	2.0	10	2.3	11	2.2	12	0.9
6	02	017	11	1.7	11	1.5	10	0.5	10	2.1	10	2.2	10	1.6	10	2.0	11	2.2	10	2.9	11	3.1	11	2.0	11	2.2	10	2.1	11	2.2	12	1.5
7	02	0.9	11	1.2	11	1.2	10	0.5	11	2.8	11	2.2	10	2.3	12	2.1	11	2.2	08	1.3	10	3.0	11	2.1	11	2.0	10	1.7	11	1.3	12	0.9
8	02	1.4	04	1.4	13	2.0	11	2.4	11	3.4	10	3.1	11	3.4	11	2.3	10	3.1	11	3.8	10	4.4	10	3.3	11	2.5	10	2.1	11	1.3	12	1.3
9	31	2.5	02	2.3	11	3.1	10	3.4	08	4.1	10	4.4	11	4.5	10	3.8	11	4.0	11	4.7	10	5.5	10	4.9	10	4.0	08	3.4	11	1.6	12	3.3
10	01	2.8	32	3.0	10	3.2	11	4.0	10	4.5	09	4.6	10	4.8	09	4.1	08	4.2	11	5.0	10	6.6	11	5.5	10	4.1	09	2.2	08	1.4	11	3.9
11	01	3.0	02	3.4	09	2.9	10	4.4	00	5.1	08	4.4	09	4.6	09	4.4	07	4.1	12	4.9	09	6.4	09	5.6	10	4.3	09	4.5	d26	2.2	11	4.2
Noon	31	3.6	02	3.9	08	2.6	12	4.3	07	4.6	09	4.3	11	5.3	12	5.4	06	3.9	11	4.5	09	5.6	08	5.9	08	3.9	08	3.1	25	3.0	11	4.3
13	01	3.9	02	3.9	08	4.0	11	4.4	10	4.4	06	4.6	11	4.6	10	5.9	08	4.4	11	4.9	09	6.0	10	5.4	09	3.9	10	2.9	22	3.3	11	4.4
14	01	4.2	29	3.6	d17	2.2	10	4.6	08	4.3	07	4.1	09	5.2	10	4.4	10	3.8	10	4.1	09	5.9	09	5.3	10	4.1	10	4.5	24	2.4	10	4.3
15	01	4.1	02	4.0	23	1.4	10	4.3	10	3.8	08	4.4	09	5.5	12	4.2	09	4.0	12	4.4	09	4.8	11	5.0	10	4.5	10	4.3	d01	1.8	11	5.2
16	32	3.2	02	3.5	21	1.9	10	4.3	09	3.5	07	3.8	10	5.2	11	5.1	09	3.8	10	5.1	12	4.7	10	5.2	11	4.4	11	3.4	32	2.2	10	5.0
17	31	3.2	d11	2.2	22	1.8	12	4.0	10	3.5	11	2.9	11	4.4	10	4.3	10	3.7	11	3.1	10	5.0	10	4.9	12	4.4	11	2.1	03	2.3	10	4.7
18	2	2.4	11	1.7	10	2.8	11	3.2	10	3.0	08	2.9	11	3.9	11	3.1	10	3.4	12	2.2	11	4.1	10	4.4	10	3.0	11	1.8	d2	2.6	10	4.1
19	32	1.2	11	0.7	10	1.7	11	1.7	10	1.9	08	2.1	11	2.5	10	3.7	11	2.5	12	2.0	11	2.1	12	2.1	11	2.2	11	1.5	12	1.8	11	3.2
20	32	0.7	11	1.3	10	1.7	11	2.0	10	1.7	09	2.2	10	3.7	09	3.4	11	2.2	12	1.9	11	2.2	12	1.7	11	2.9	11	1.2	13	0.9	11	1.8
21	32	1.0	11	1.3	10	1.5	11	2.6	10	1.8	10	2.1	10	3.8	11	2.7	10	3.1	12	2.2	10	2.1	12	2.1	10	2.4	11	1.1	13	0.7	11	2.6
22	32	1.3	11	1.4	10	1.3	11	2.3	10	2.1	10	1.5	09	2.7	10	3.0	10	3.0	12	2.0	10	2.4	10	2.4	10	2.7	11	0.8	13	0.9	11	1.8
23	32	1.7	11	1.8	10	0.8	11	2.0	10	1.5	10	1.8	08	1.1	10	3.0	11	3.4	12	1.8	11	2.7	11	2.1	10	2.4	11	1.5	13	0.9	11	2.3

Hour \ Day	17		18		19		20		* 21		22 *		23		24 *		25 *		26 *		27		28		29		30		31		Mean Velocity
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	
Mid-night	11	2.0	06	1.2	11	3.2	10	1.6	08	1.6	12	1.5	11	[illegible]	01	0.8	10	2.2	11	2.2	10	2.0	09	3.1	11	4.5	09	4.1	14	5.0	Mid-
1	11	2.6	06	1.0	11	2.3	13	1.8	08	1.6	12	1.7	11	2.2	d09	1.4	11	2.3	11	1.2	10	1.7	11	3.1	12	3.9	10	3.8	12	5.0	2.1
2	09	1.1	05	1.5	11	2.4	12	1.6	08	1.2	12	1.4	11	2.0	09	1.5	11	1.8	11	1.3	10	1.2	12	3.5	10	4.4	11	3.9	14	4.8	2.1
3	08	1.3	09	1.5	11	2.4	13	0.6	08	1.3	12	1.1	11	1.2	11	1.7	11	1.8	11	1.4	10	1.8	09	3.6	09	6.2	12	4.4	14	3.7	2.0
4	09	2.1	09	1.8	11	2.2	13	1.1	08	1.8	12	1.2	11	1.4	11	1.7	11	1.8	11	1.5	08	2.8	11	3.5	10	4.7	12	4.5	17	2.1	2.0
5	10	1.8	09	2.2	11	1.6	13	1.0	11	1.6	12	1.8	11	1.8	11	1.7	11	1.7	11	1.2	08	3.0	12	3.5	08	4.7	11	4.4	16	2.1	2.1
6	10	2.0	09	2.7	11	1.6	13	0.8	11	1.2	12	1.9	11	1.4	10	1.8	07	1.8	10	1.8	10	3.7	12	3.7	10	5.1	11	4.5	16	2.0	2.1
[illegible]	11	2.0	09	3.1	11	1.7	13	1.5	11	1.3	12	1.7	11	1.6	10	1.6	10	1.6	11	1.8	11	4.7	11	4.6	11	5.0	11	4.1	15	3.3	2.2
8	11	2.8	10	3.9	11	2.3	11	1.3	11	0.9	12	1.4	11	1.7	10	1.8	10	2.9	11	1.1	09	4.2	11	5.1	11	6.7	12	5.5	17	3.2	2.8
9	10	3.9	10	4.7	11	4.0	09	3.1	11	0.9	10	2.7	10	2.8	07	2.7	10	2.2	07	1.5	06	3.4	11	4.8	09	6.5	12	5.5	14	5.4	3.7
10	11	3.9	10	5.4	10	3.9	07	2.2	04	1.3	12	2.7	10	4.1	09	2.1	05	1.9	10	2.7	09	4.2	10	5.4	09	6.3	12	6.1	15	6.0	3.9
11	11	3.7	10	6.1	11	4.1	08	3.7	r28	2.6	12	3.2	06	2.6	13	1.6	02	2.2	07	2.4	09	4.0	12	5.1	10	[illegible].3	12	6.6	15	6.4	4.2
Noon	12	4.2	09	5.1	07	3.6	07	3.3	25	2.4	17	2.0	04	2.3	27	2.8	02	2.1	07	3.4	09	3.7	12	5.2	10	6.5	12	6.7	13	5.8	4.1
13	12	4.6	10	5.1	10	3.3	09	2.8	26	3.3	20	2.3	31	4.1	r17	2.0	02	3.0	09	3.3	08	3.6	12	5.8	10	6.7	13	6.1	15	5.8	4.3
14	10	4.2	12	5.4	09	3.4	07	3.9	23	3.9	d05	2.3	29	3.5	19	2.6	d14	2.6	06	3.6	10	3.8	11	6.2	10	7.2	12	5.9	18	4.3	4.2
15	10	4.0	10	5.0	10	4.1	07	3.5	22	3.7	10	3.0	24	1.7	21	3.1	10	3.7	07	2.5	10	4.3	12	4.6	10	7.1	12	4.6	17	4.2	4.0
16	12	4.1	10	4.7	09	4.1	06	3.5	r13	2.8	11	1.8	26	2.4	r13	3.5	14	1.8	04	2.2	12	4.5	09	5.6	11	6.9	14	4.0	18	4.4	3.9
[illegible]	09	4.1	12	3.5	10	3.7	06	2.3	08	0.9	17	1.7	26	1.1	07	2.4	14	1.1	d13	2.5	11	4.8	10	5.3	10	5.5	13	4.0	16	5.8	3.4
18	10	2.6	09	3.3	10	2.9	08	2.0	07	1.7	19	1.1	26	0.9	08	1.4	14	0.7	[illegible]	[illegible]	09	3.5	10	5.4	09	5.0	14	4.1	15	5.0	2.9
19	12	2.1	12	2.1	10	2.0	08	[illegible]	07	1.0	[illegible]	0.6	26	0.8	08	1.5	14	0.8	14	2.3	09	4.0	11	4.4	09	4.5	14	4.1	16	5.1	2.2
20	11	1.5	11	2.2	10	1.3	08	1.6	13	1.3	[illegible]	1.9	26	1.3	08	1.7	14	1.3	09	4.1	08	2.4	10	3.6	10	4.4	14	4.0	14	5.2	2.2
21	12	1.9	11	2.1	10	1.8	08	1.8	12	0.9	[illegible]	1.7	28	1.7	10	2.5	11	2.0	10	1.8	11	2.5	10	4.8	12	4.6	13	4.7	15	4.3	2.3
22	11	2.0	11	2.7	10	1.5	08	1.4	12	1.1	09	2.4	d28	1.1	09	1.7	14	1.1	10	1.9	11	2.4	10	4.2	11	4.6	14	4.7	14	4.2	2.2
23	11	2.5	11	2.5	10	1.7	08	1.3	12	1.3	11	1.8	28	1.7	10	2.5	11	2.0	10	1.8	11	2.5	10	4.8	12	4.6	13	4.7	15	4.3	2.3

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS) MARCH, 1942

Hour	8 or above	4 to 7	10 to 3	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
3	-	1	30	-	1	-	-	5	6	18	1	-	-	-	-	-	-	-	-
9	-		28	1	1	-	1	6	11	11	-	-	-	-	-	-	-	-	-
15	-	2	29	2	1	-	-	6	11	6	-	1	-	1	1	2	-	-	-
21	-	-	31	1	-	-	-	3	11	12	2	2	-	-	-	-	-	-	-
Total	-	-	-	4	3	-	1	20	39	47	3	3	-	1	1	2	-	-	-

TABLE XIVa - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY FOR MARCH, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	..	2.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.5	..	..	..	..	..	..	0.5	..	..	..	0.1	0.3	0.2	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.6	..	0.2	..	..	..	..	..	..	..	..	0.1	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	1.4	..	..	..	..	..	..	0.1	..	..	..	..	..	..	0.2	5.3	1.2	..	..
4	..	..	..	..	0.5	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.9	0.8	0.2	..	..
5	..	..	..	..	0.1	..	..	..	..	..	..	..	1.2	..	..	..	..	..	..	..	..	..	..	..	..	..	4.9	3.4	3.8	..	..
6	..	..	..	..	0.4	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	0.5	0.5	1.5	..	..
7	..	..	..	..	..	..	..	0.4	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	0.1	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10.1	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..
10	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	4.9	..	..	..	..	0.1	..	..
11	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	2.5	..	..	..	..	0.5	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.0	..	..
13	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.2	..	..	..	..	1.3	..	0.1	..	..
14	..	..	..	..	..	..	..	0.7	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	0.2	0.0	..	0.9	..	0.1	..	..
15	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	2.8	..	..	..	..	..	..	27.5	..	7.4	..	7.[illegible]	21.6	..	3.2	..	..
16	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	2.3	..	21.0	..	1.0	0.4	..	0.9	..	..
17	..	..	..	..	..	..	0.1	..	..	0.5	..	..	..	..	..	..	..	..	..	..	0.2	11.3	..	9.9	..	6.3	..	..	..	..	..
18	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	4.5	..	..	0.2	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	1.6	0.4	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..
21	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	0.1	..	..
22	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..
23	..	..	..	..	..	..	..	..	2.4	..	0.1	1.1	..	..	..	..	..	..	..	..	..	..	0.3	..	..	0.1	..	0.1	..	..	..
24	..	..	..	..	..	..	..	..	2.1	..	0.1	0.5	..	..	..	..	1.7	..	..	..	..	..	..	..	..	..	..	0.6	0.2	..	..

TABLE XIVb - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR MARCH 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	3.2	..	..	..	..	..	0.2	..	..	..	1.1	0.1	0.1	..
2	..	..	..	..	0.1	..	..	..	..	..	..	0.1	..	..	..	..	..	0.3	..	1.5	..	..	..	..	..	..	..	4.1	2.8	0.4	..
3	..	..	..	..	..	..	..	..	..	0.1	..	0.1	0.1	..	..	..	0.3	0.2	..	0.4	..	..	..	..	..	..	..	0.4	6.7	1.0	..
4	..	..	..	..	0.4	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	0.1	6.0	0.3	..
5	..	..	..	..	0.3	..	..	..	..	0.4	0.3	..	0.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.5	1.0	0.4	..
6	..	..	..	..	0.2	..	..	..	..	1.2	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.5	17.4	..	..
7	..	..	..	..	0.2	..	..	..	..	0.3	1.2	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	2.6	0.4	7.0	..	0.3
8	..	0.2	..	..	..	..	..	..	0.1	0.2	..	0.1	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	1.0	1.8	..	0.2
9	0.1	..	0.2	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.4	..	..
10	..	..	..	..	0.2	..	..	..	..	0.2	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3.3	..	..
11	..	0.4	..	..	..	0.1	0.7	..	0.2	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	0.6	0.3	0.1
12	..	0.4	..	..	0.8	..	0.7	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	1.8	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7.0	[illegible]	..	38.0	0.2	5.2	0.1	0.6	..	..
14	..	..	..	..	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3.2	15.9	1.0	15.9	[illegible]	2.1	0.3	0.1	..	..
15	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	0.1	..	..	..	..	3.6	30.2	17.3	..	6.6	1.7	1.0	0.5	..	..
16	..	..	..	..	..	..	..	..	..	1.2	..	..	..	..	..	0.2	..	..	..	..	..	12.9	[illegible]	5.5	..	0.2	0.3	0.4	0.5	..	..
17	..	..	..	..	..	4.0	0.3	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	0.8	[illegible]	..	..	..	..	0.7	1.2	..	..
18	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	0.1	0.5	1.5	..	..
19	8.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	1.4	0.6	..	..
20	1.9	..	..	..	..	..	..	..	0.5	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	0.4	1.7	..	..	..
21	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	1.6	..	..
22	..	..	..	..	..	..	..	..	0.3	..	0.5	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	1.2	..	..	..
23	..	..	..	..	..	..	..	..	0.8	..	..	0.2	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	1.0	0.3	..	..
24	..	..	..	..	..	..	..	1.0	..	..	0.1	0.3	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	0.1	2.7	0.5	..	..

TABLE XV - TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR MARCH, 1942

RIVER SYSTEMS	STATIONS	Approximate Altitude in feet	Total Fall		Normal in Inches	Number of Days
			Inches	Millimetres		
1	Mare Seche	20	5.65	143.5	6.30	13
	St Antoine	50	6.32	160.5	7.78	18
	Bel Mont	50	5.09	129.3	8.44	10
	Poudre d'or	20	6.02	152.9	7.69	10
	Mon Loisir S.E.	300	7.68	193.0	8.39	20
	Forbach	300	8.77	222.8	6.63	14
	Couroupa	...	8.52	216.0	7.32	10
	Labourdonnais	290	12.82	325.5	9.58	17
	Mapou Water Office	...	10.42	264.7	...	9
	Beau Sejour	300	8.41	213.6	11.43	21
	Mont Piton	650	8.46	214.9	10.47	15
	Mon Choix	700	9.96	253.0	9.64	18
	Antoinette	640	8.96	227.6	11.48	21
	Mon Songe	620	9.13	231.9	12.66	23
	Botanical Gardens	325	9.00	228.5	9.88	23
	The Observatory	179	8.28	210.2	8.59	25
	Solitude	175	7.67	194.8	9.96	11
	St Andre Cour	90	6.70	170.2	7.71	10
	La Nicoliere	...	12.19	309.6	15.92	23
	California	...	12.72	323.1	12.47	18
	Australia	...	4.78	121.4	...	12
2 & 3	Union Regnard Flacq S.E.	600	13.72	348.5	11.97	20
	Constance d'Arifat L.G.	100	8.79	223.3	11.28	18
	Rich Fund	600	14.68	372.9	13.29	24
	La Joffrette	...	13.93	353.8	...	18
	Belle Vue Allendy	...	9.64	244.9	10.89	18
4	Sans Souci	900	14.95	379.7	19.68	24
	Beau Champ G.R.S.E.	40	9.68	245.9	9.20	23
	Olivia	200	11.02	279.9	12.81	22
	Trois Ilots	...	...	...	...	..
	Belle Rive	400	9.48	240.8	11.68	24
	Sebastopol	700	...	...	...	..
	Bonne Veine	400	18.18	461.8	17.53	22
5	Rose Belle	850	10.84	275.3	16.62	26
	New Grove	650	...	...	21.41	..
	Mon Tresor	...	14.21	360.9	...	19
	Mon Desert Carie	15	7.61	193.3	9.03	17
	Ferney	20	10.70	271.8	14.25	21
	Sauveterre	...	8.25	209.6	...	17
	Tivoli	1320	17.52	445.0	18.54	27
	La Flora	1050	14.74	374.4	17.16	24
	Riche Bois Britannia	650	12.58	319.5	14.93	26
6	Britannia S.E.	700	11.51	292.4	16.11	26
	Savannah Mill	200	11.40	289.6	12.24	20
	St Aubin	300	6.93	176.0	11.19	19
	St Avold	900	13.04	331.2	16.00	23
	Colmar	400	13.04	331.2	13.96	23
	Union S.E.	...	9.30	236.2	9.43	13
	Fontenelle	320	9.04	229.6	10.79	12
	Choisy	200	12.47	316.7	9.31	18
	Beau Bois	...	15.13	384.3	15.57	23
	Bel Air	...	7.45	189.2	10.00	8
	St Felix	...	9.05	229.2	...	11
7, 8, 9 & 10	Bel Ombre	40	10.82	274.8	9.65	19
	Beau Champ B. du Cap	70	8.50	215.9	9.73	20
	Frederica	...	9.19	233.4	11.73	15
	Pierrefonds	...	10.44	265.2	9.03	14
	Ste. Marie	...	10.56	258.2	...	19
	Hussonia	...	...	...	...	..
11	Curepipe Gardens	1840	16.90	429.2	18.02	26
	Mare aux Vacoas (G.End)	1850	23.07	586.0	18.24	26
	Mare aux Vacoas (Arnaud)	1830	22.59	573.8	20.79	28
	La Marie Filter Beds	1700	18.57	471.7	16.44	23
	Sophie	...	...	...	...	..
	Reunion	1420	16.31	414.3	14.00	20
	Aerological Station	1393	13.16	334.4	12.15	27
	Phoenix	...	11.13	282.7	12.35	8
	Quatre Bornes	...	7.87	199.9	...	11
12	Quatre Bornes (Board)	1090	9.85	250.2	...	12
	Le Reduit Dept. of Agric.	1000	7.31	185.8	10.00	26
	Alma	1460	15.62	396.7	19.00	21
	Bagatelle	1250	6.75	171.5	14.04	13
	Highlands	1300	9.93	252.2	14.71	16
	Trianon	950	7.38	187.5	11.37	11
	Vai Ory	1100	...	...	11.39	..
	Bassin	...	11.47	291.3	8.80	10
	Hermitage	1450	7.31	185.7	17.01	15
	Ebene	...	9.61	244.1	...	20
	Bega	...	8.75	222.3	...	20
	Mon Reve	...	7.88	200.2	...	18
	Mont Pevril	...	7.19	182.6	...	20
	Minissy	1150	9.27	235.5	12.25	18
	Plaisance	...	6.04	153.4	...	15
	La Ferm e	350	7.70	195.6	12.25	13
13	Line Barracks	...	6.50	165.2	6.70	18
	Richelieu R. Res. Stn.	...	5.48	139.5	...	13

TABLE XVI - PILOT BALLOON OBSERVATIONS FOR THE MONTH OF M A R C H, 1942

Date	Time	Surface		250 metres		500 metres		750 metres		1,000 metres		1,500 metres		2,000 metres		2,500 metres		3,000 metres		3,500 metres		4,000 metres	
		Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity
		°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.
1	09.25	010	3.9	016	2.9	351	5.9	318	7.1	306	8.9	311	10.8										
2	09.00	002	2.2	011	2.9	007	4.5	003	4.0	004	5.1	348	6.1	318	5.4	329	4.7	319	4.6			303	5.1
3	09.07	080	4.9	092	3.0	116	2.0	113	4.3	105	4.3	098	2.2										
4	09.05	122	1.9	137	1.9	128	2.8	096	3.6	098	7.2												
5	09.06	084	6.6	094	5.7	105	4.7	101	12.0	091	13.0	095	8.4	092	9.7	098	4.8	083	9.3	088	6.7		
6	08.59	063	5.2	058	6.1	057	5.8	051	4.9	044	2.9	045	6.4										
7	09.37	122	4.8	114	5.9	111	6.2	109	5.2	102	5.7	134	4.2										
8	08.42	143	1.0	131	2.9	107	2.8	110	10.0	108	11.3	094	8.3	081	4.8	028	1.3						
9	08.50	097	6.0	103	6.4	095	6.8	093	6.4	095	11.3	093	5.5	097	9.6								
10	09.35	103	10.4	106	14.1	103	10.1	124	5.3	120	15.1	117	13.0										
11	09.02	108	8.0	106	3.3	081	5.1	088	12.0	095	14.7	098	912										
12	09.00	108	8.5	093	8.4	100	6.8	101	10.8	097	14.2	103	11.3										
13	09.13	093	4.2	090	6.1	092	7.2	098	6.2	080	8.0	090	5.3	077	7.7								
14	09.06	062	3.1	074	3.3	097	3.5	095	4.3	092	5.0												
15	09.16	285	4.3	284	2.5	113	0.2	095	2.4	219	1.8	203	4.7										
16	09.07	090	0.8	079	2.1	102	2.6	112	5.4	114	7.8	108	7.3										
17	07.14	112	4.0	111	5.6	096	5.7	085	6.1	074	6.5	080	5.8	097	6.8	100	6.6	098	7.0				
18	09.05	107	8.1	108	7.0	107	6.8	103	9.5	101	9.9	101	4.9	131	4.2	116	8.1	105	7.8	107	5.2		
19	09.20	129	1.9	124	1.1	114	4.1	085	5.3	092	5.3	109	3.4	099	3.8								
20	09.00	296	3.0	081	2.5	086	5.2	096	5.6	111	6.0	089	5.4	075	5.8								
21	08.54	268	3.2	204	2.5	180	1.0	156	1.1	130	0.6	041	0.3										
22	10.22	295	7.2	294	4.4	225	0.3	193	0.9	129	2.6												
23	09.13	049	1.9	051	2.0	080	3.6	075	4.1	066	4.4	037	4.0	055	3.2								
24	09.07	065	5.1	090	2.2	065	3.8	050	6.2	041	6.4	039	6.4										
25	09.54	050	5.9	053	5.9	057	3.4	026	1.1	129	0.6	079	1.0										
26	09.25	039	1.9	050	1.6	057	2.5	077	2.7	094	1.5	041	0.9	058	1.0								
27	09.12	076	9.6	078	8.6	085	6.0	084	11.6	092	21.8	102	14.6	110	17.1	115	13.2	15.0	5.5	216	5.9		
28	09.55	138	8.6	106	6.5	115	13.9	109	19.2	105	15.3												
29	08.04	089	9.6	096	17.6	107	6.8	117	3.4														
30																							
31	09.07	208	3.1	207	2.2	183	5.3	172	10.9	172	13.3	171	14.1	160	18.9	140	13.0						

NEW SERIES (MONTHLY) VOL. XXVIII PART IV

MAURITIUS
ROYAL ALFRED OBSERVATORY

LATITUDE 20° 5' 39"S., LONGITUDE 3h 50m 12.6s

RESULTS OF MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

APRIL, 1942

N.R. Mc CURDY, B.Sc. F.R. MET. SOC.

DIRECTOR

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TABLE I - RESULTS OF MAGNETICAL OBSERVATIONS MADE DURING THE MONTH OF APRIL, 1942

Month and Day	Mean Declination (West)	Mean Horizontal Force (C.G.S. Units)	Mean Vertical Force (C.G.S. Units)	Daily Range: Declination	Daily Range: Horizontal Force (Unit γ)	Daily Range: Vertical Force (Unit γ)
APR.						
1	14°18'.1	.22440	.29955	5'.8	66	24
2	17.1	408	961	8.0	40	33
3	18.1	400	968	4.7	50	13
4	18.9	381	968	9.7	135	37
5	18.2	...	967	6.5	...	30
6	18.2	...	965	7.0	...	20
7	17.9	416	965	6.5	31	14
8	17.8	412	965	7.0	70	15
9	18.8	409	965	7.3	30	21
10	18.7	418	962	6.2	37	24
11	17.1	381	971	8.0	110	19
12	19.0	387	968	6.5	25	26
13	19.0	395	967	6.0	80	27
14	17.7	399	964	4.5	41	26
15	19.1	409	963	7.0	18	34
16	17.9	415	962	8.0	58	31
17	18.4	381	972	8.0	65	16
18	18.6	388	974	7.3	72	12
19	18.1	396	970	5.5	29	30
20	18.7	409	967	8.0	48	38
21	18.1	415	964	9.5	32	34
22	18.5	425	968	10.3	24	26
23	17.9	428	964	10.5	122	41
24	19.0	415	967	7.3	46	23
25	18.5	425	965	7.4	47	26
26	18.8	427	963	5.3	30	19
27	18.6	424	961	6.8	95	34
28	18.3	406	965	6.3	48	29
29	18.6	415	957	6.7	22	37
30	18.7	418	959	10.0	53	46
Mean	14°18'.34	.22409	.29965	7'.25	54.4	26.8

Description of the Principal Magnetic Disturbance

Horizontal Force: 1st slightly disturbed with sudden commencement at 3h40m. Quiet trace from 1st 18h 20m to 2nd 8h 40m. 2nd - moderately disturbed from 8h 40m. Disturbance gradually subsides from 3rd at 0h. 3rd only very slightly disturbed. 4th - rapid increase of 40 γ from 2h to 2h 30m. followed by quiet trace till 8h 40m. A short-lived but important disturbance starts at 8h 40m and ends suddenly after 5th. at 1h 40m. Long wave form fluctuations of total amplitudes 100 γ to 110 γ from 9h 30m to 20h; small rapid oscillations followed and trace becomes quiet after 1h 40m. Absolute range during the disturbance 135 γ. 8th moderately disturbed with sudden commencement at 5h. Trace becomes almost quiet after 9th 0h. 11th - very moderately disturbed. Minor irregular features. 13th - sudden commencement at 12h 30m of a moderately disturbed period ending towards the end of 14th. Irregular features until 14th 6h. small rapid pulsations followed. 17th & 18th slightly disturbed. 23rd short lived disturbance lasting from about 8h till 24th 0h. Disturbance starts with large positive wave culminating at 12h (+60 γ) followed by minor irregular features. 27th second half and first part of 28th slightly disturbed. 29th slightly disturbed during second half.

T = .37421 : Mean Dip = 53° 12'.57 : X = .21714 : Y = -.05537 : Z = .29965

The daily range is the difference between the greatest and least hourly values

TABLE II - RESULTS OF ABSOLUTE DETERMINATIONS OF THE MAGNETIC ELEMENTS DURING THE MONTH OF APRIL, 1942

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
7.14.23	14.14.5	2. 9.47	.22447	7.14.35	53.11.63	.29960
14.14.31	14.16.3	4. 9.30	.22409	14.14.41	53.11.68	.29946
21.14.09	14.14.8	8. 9.47	.22448	21.14.13	53.11.31	.29958
28.14.38	14.16.7	15.12.38	.22425	28.14.45	53.12.18	.29958
		20. 9.35	.22422			
		23. 9.46	.22459			
		27.10.04	.22453			
		29.10.05	.22441			

TABLE III - MAGNETIC DECLINATION (WEST) AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

APRIL, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
							14° +										
Midnight	18.0	18.0	19.0	18.5	16.5	18.7	18.5	18.7	19.5	18.5	18.3	19.7	19.0	19.0	18.5	18.7	Midnight
1	19.0	18.0	19.5	18.7	19.0	18.5	18.0	18.5	19.5	19.0	18.3	19.5	19.3	17.0	18.7	19.0	1
2	18.5	18.5	19.7	19.5	20.0	18.0	18.0	18.7	19.3	18.5	18.0	19.7	19.3	19.0	19.0	19.0	2
3	18.3	18.5	19.5	18.0	19.7	17.5	18.3	18.3	19.5	18.3	18.3	19.5	19.5	16.5	19.5	19.3	3
4	18.0	18.3	19.0	19.0	19.0	18.0	18.3	18.3	19.0	18.3	17.5	19.3	19.0	18.0	19.3	19.0	4
5	18.5	18.3	19.0	18.5	19.0	18.3	18.5	18.0	19.0	18.5	16.0	19.0	19.0	16.0	19.3	19.0	5
6	19.0	18.0	18.5	17.0	19.0	19.0	18.3	15.0	19.0	18.3	14.7	19.0	19.0	14.5	19.0	18.0	6
7	19.3	17.8	18.0	17.5	19.7	19.7	17.8	15.5	19.5	19.0	12.0	19.0	18.5	16.5	19.5	18.5	7
8	20.0	18.7	19.0	20.0	19.7	21.0	15.0	17.5	21.0	21.0	13.5	20.0	20.0	17.0	21.0	19.0	8
9	20.3	20.0	16.5	22.0	20.0	22.0	21.0	20.0	22.0	22.5	16.0	22.0	22.5	17.5	23.0	21.0	9
10	20.5	20.0	17.0	21.7	19.5	21.5	21.0	21.0	22.3	22.7	16.7	22.5	23.0	17.0	24.0	20.7	10
11	20.0	17.5	17.0	18.0	18.0	20.0	19.5	20.0	21.0	21.0	18.0	21.0	20.0	18.7	22.5	17.5	11
Noon	18.3	15.0	16.5	15.7	16.0	17.0	16.5	16.0	18.5	19.0	17.0	19.5	18.5	18.5	20.0	14.0	Noon
13	16.0	13.5	15.0	15.5	13.5	15.7	15.0	14.0	17.0	17.5	15.5	18.0	17.0	18.0	17.5	13.0	13
14	15.0	12.0	16.0	15.3	13.7	15.0	14.5	14.0	15.5	16.3	16.5	18.5	17.5	17.0	17.0	13.5	14
15	14.7	13.0	16.7	16.5	14.5	15.0	15.0	14.5	15.0	16.5	16.0	16.3	17.3	17.0	17.0	15.0	15
16	15.5	14.7	17.3	16.7	17.0	15.7	15.7	15.0	15.0	16.5	15.7	16.0	17.0	18.5	17.0	16.0	16
17	17.0	15.0	18.3	18.5	18.0	17.5	17.5	16.5	17.0	16.5	17.0	17.3	17.0	18.3	18.0	17.0	17
18	18.0	16.5	19.0	19.0	18.3	17.7	18.0	17.5	18.0	17.7	17.5	17.7	18.0	18.5	18.3	18.5	18
19	18.0	16.3	19.5	20.0	18.5	18.5	18.5	19.0	19.0	18.3	18.0	18.0	19.0	19.0	18.7	18.5	19
20	17.7	17.3	19.0	21.0	19.0	18.5	19.0	19.5	19.0	18.0	19.0	18.7	19.5	18.6	18.5	18.7	20
21	18.5	17.0	19.0	22.0	19.5	18.5	19.0	20.0	19.0	18.5	20.0	18.3	19.0	18.5	18.3	18.5	21
22	18.0	18.5	18.3	25.0	19.0	18.5	19.0	21.0	19.0	18.5	20.0	18.5	19.0	18.0	18.0	19.0	22
23	18.0	20.0	18.0	20.0	18.7	18.3	18.5	19.5	18.5	18.5	20.0	18.7	18.5	18.0	18.0	19.5	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Mean	Hour \ Day
Midnight	20.0	20.0	19.5	18.7	19.3	18.5	18.5	19.5	19.3	19.0	19.3	21.3	19.0	19.0	18.9	Midnight
1	19.5	19.0	19.0	18.7	19.3	18.7	18.5	19.3	19.5	19.0	19.3	20.0	19.0	19.0	18.8	1
2	19.0	18.7	18.5	18.5	18.7	18.5	18.7	19.3	19.3	18.7	19.0	20.0	19.5	19.5	18.9	2
3	19.3	18.0	16.0	18.3	18.7	16.5	18.5	19.0	19.0	19.0	19.3	20.0	19.5	19.3	18.7	3
4	18.7	19.3	17.0	17.5	19.0	18.7	18.5	18.7	19.0	18.5	19.0	17.3	19.7	19.0	18.6	4
5	16.0	19.5	18.3	17.5	19.0	19.0	18.5	17.0	18.7	17.5	18.7	19.3	19.3	19.0	18.3	5
6	17.0	19.0	18.0	17.0	19.0	18.5	18.3	17.3	18.3	18.0	18.0	15.0	19.5	18.7	17.9	6
7	14.0	19.5	17.7	17.0	18.5	17.7	17.7	17.0	17.7	18.0	18.5	16.5	18.7	19.7	17.9	7
8	16.0	20.7	18.5	19.5	20.5	20.0	20.0	20.0	19.3	19.7	20.7	17.3	20.3	22.0	19.3	8
9	19.5	22.0	21.0	22.5	23.0	23.0	22.5	23.0	21.5	21.5	22.0	20.0	22.0	24.0	21.2	9
10	20.0	20.0	20.7	24.0	23.0	24.3	22.5	24.3	22.7	22.0	22.5	21.3	22.0	23.7	21.5	10
11	17.5	16.0	18.0	22.0	18.0	22.0	20.0	22.0	20.0	20.5	20.5	20.5	19.0	20.0	19.5	11
Noon	16.5	14.7	17.0	18.0	15.0	19.5	16.0	19.0	17.0	19.0	18.0	18.7	16.3	15.0	17.2	Noon
13	16.0	15.5	16.7	16.0	13.5	16.0	14.0	17.0	15.3	18.7	15.7	18.0	15.5	14.0	15.8	13
14	17.0	16.5	15.5	16.5	14.0	14.5	12.0	17.3	15.7	18.3	16.5	17.0	15.3	14.5	15.6	14
15	16.7	17.0	16.0	15.0	14.0	12.0	17.5	15.5	17.7	16.0	16.0	16.0	15.7	14.5	15.6	15
16	17.7	17.0	16.7	16.7	15.5	14.7	13.0	17.7	16.0	16.7	16.0	16.7	16.0	15.0	16.2	16
17	19.0	17.3	17.5	17.5	16.3	16.3	15.5	17.5	17.3	17.0	17.5	17.5	17.5	17.5	17.2	17
18	19.0	19.5	18.5	18.7	17.5	17.5	18.0	17.7	18.0	18.0	17.5	17.3	18.5	18.0	18.1	18
19	22.0	19.9	18.7	19.5	18.0	18.5	17.3	18.5	18.3	18.5	17.5	18.0	18.7	19.7	18.7	19
20	20.0	20.0	19.0	19.5	19.0	19.0	19.0	19.0	18.7	18.7	18.0	18.5	18.5	19.0	18.9	20
21	21.5	20.0	19.0	21.0	19.0	19.0	20.3	19.3	19.3	19.0	18.0	18.3	19.0	19.0	19.3	21
22	20.7	19.5	19.0	19.0	18.7	18.7	20.5	19.3	19.0	18.7	19.3	18.5	18.7	20.0	19.2	22
23	20.0	19.0	19.0	18.7	18.5	18.5	20.0	19.3	19.0	19.3	20.3	18.5	18.7	20.0	19.0	23

TABLE IV - MAGNETIC HORIZONTAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature in the Magnet Chamber)

APRIL, 1942

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
	.22000 + (C.G.S; UNIT)																
Midnight	415	423	365	410			402	410	399	408	420	369	390	382	402	409	Midnight
1	417	427	390	404			405	409	397	410	415	377	393	405	403	405	1
2	415	429	397	410			409	411	399	420	413	378	395	409	401	409	2
3	421	431	398	435			409	416	401	415	415	381	397	420	402	405	3
4	435	431	415	432			410	418	402	415	421	383	400	421	403	418	4
5	443	428	409	427	365		410	420	403	414	409	384	403	405	405	422	5
6	438	430	408	425	367	399	412	445	404	414	415	388	404	400	407	423	6
7	435	430	409	420	365	391	417	440	405	415	420	391	409	380	411	420	7
8	437	431	407	413	369	393	422	432	408	416	420	390	410	383	412	432	8
9	450	445	405	423	372	395	425	432	412	418	405	387	410	387	417	434	9
10	469	441	402	416	377	405	423	442	418	428	408	383	403	389	418	438	10
11	480	450	407	380	380	420	423	425	420	435	405	387	405	395	419	443	11
Noon	481	455	405	403	381	415	433	409	423	441	400	397	411	405	418	433	Noon
13	475	442	410	421		403	432	397	427	440	370	402	423	420	418	424	13
14	466	427	400	399		395	426	399	426	431	362	400	419	405	415	423	14
15	449	400	391	335		395	420	405	409	412	360	391	407	405	410	415	15
16	443	381	389	315		397	412	405	409	406	337	390	409	401	405	414	16
17	442	357	385	344		399	411	412	400	404	330	390	403	395	403	398	17
18	435	351	379	355		401	411	405	402	407	325	391	379	389	404	401	18
19	421	367	390	335		402	411	390	405	410	310	383	370	392	405	406	19
20	420	363	400	300		403	412	401	410	415	340	384	343	393	406	403	20
21	420	360	405	310		405	412	375	416	418	350	383	350	399	406	401	21
22	421	348	403	321		402	411	391	415	420	357	386	365	398	407	400	22
23	423	315	404	315		402	412	393	410	421	363	390	387	398	408	385	23

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Mean		Day / Hour
	.22000 + (C.G.S. UNIT)																
Midnight	399	381	385	407	402	412	426	399	411	423	425	370	411	415	402		Midnight
1	405	390	395	400	405	413	427	400	410	421	425	395	411	417	406		1
2	415	391	397	402	407	416	428	402	412	422	427	401	412	419	409		2
3	399	410	409	405	409	419	429	410	413	423	426	400	415	416	412		3
4	400	402	410	410	410	421	429	415	416	424	427	410	410	419	414		4
5	402	403	405	412	412	420	433	417	417	424	430	418	409	421	414		5
6	399	401	405	410	414	425	437	416	417	427	431	410	411	423	416		6
7	390	405	407	415	417	431	441	425	423	429	433	413	413	424	417		7
8	407	417	400	415	420	433	447	430	429	430	436	417	417	429	419		8
9	400	422	397	415	419	432	459	432	435	440	435	407	416	427	421		9
10	407	412	400	421	422	431	455	436	448	441	446	402	419	428	423		10
11	381	400	390	427	429	433	465	440	452	443	453	407	419	440	423		11
Noon	375	399	393	435	434	436	500	445	457	447	454	412	430	443	428		Noon
13	367	397	397	432	432	430	477	435	443	433	452	410	431	442	424		13
14	358	375	387	426	421	427	455	420	438	427	441	405	427	437	416		14
15	362	368	381	413	407	419	430	405	432	420	433	405	415	435	405		15
16	367	355	385	392	403	420	411	403	424	417	427	406	411	420	398		16
17	370	350	385	387	408	423	380	401	418	419	425	402	410	405	395		17
18	367	372	399	389	414	429	392	401	417	423	426	400	412	410	396		18
19	350	350	400	397	412	427	430	370	402	416	424	420	398	411	392		19
20	358	365	401	396	412	428	378	405	418	423	410	405	412	390	393		20
21	355	372	397	400	413	426	385	407	418	423	390	407	412	392	393		21
22	360	380	388	402	413	426	412	407	419	422	377	410	413	395	395		22
23	370	393	387	403	409	427	400	405	421	423	359	409	414	396	395		23

TABLE V - MAGNETIC VERTICAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature inthe Magnet Chamber)

APRIL, 1942

29000 + (C.G.S. UNIT)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	961	959	973	967	979	971	969	968	970	967	963	973	969	969	967	966	Midnight
1	960	957	972	967	977	971	967	969	970	967	961	972	969	962	966	965	1
2	959	956	969	970	976	969	966	969	970	966	963	971	967	967	966	964	2
3	958	955	966	961	973	967	966	967	970	966	965	971	967	965	967	965	3
4	957	955	965	961	971	967	965	966	969	966	963	971	969	966	967	964	4
5	957	956	963	961	971	966	965	965	968	966	965	971	969	965	968	964	5
6	959	956	962	960	971	967	964	962	969	967	965	971	969	963	969	965	6
7	961	957	964	960	972	968	964	960	969	967	963	971	970	971	970	965	7
8	961	963	971	974	973	971	969	969	971	971	970	980	975	974	975	968	8
9	963	969	975	975	972	969	971	969	970	971	976	977	979	973	975	970	9
10	963	969	974	969	969	963	971	967	966	963	979	973	971	972	973	961	10
11	955	963	972	963	964	957	964	961	960	956	979	965	960	971	959	947	11
Noon	949	953	970	960	957	951	958	956	951	947	970	959	952	956	945	940	Noon
13	941	945	963	954	949	951	957	956	950	949	970	955	953	950	941	943	13
14	939	944	962	954	950	954	957	957	957	951	967	954	957	947	945	951	14
15	939	949	965	960	955	959	959	960	954	953	965	957	959	951	949	954	15
16	943	959	967	973	961	962	961	963	961	955	967	957	959	954	955	959	16
17	947	962	968	971	964	964	965	965	965	957	974	963	961	961	959	963	17
18	950	969	971	971	967	966	966	965	969	962	975	966	963	966	962	967	18
19	954	966	970	971	969	966	966	968	969	963	980	969	973	967	963	967	19
20	957	969	969	971	977	971	966	967	967	963	980	971	975	969	966	968	20
21	959	973	969	983	971	967	966	970	966	963	979	971	976	969	967	969	21
22	960	976	969	991	971	968	966	971	966	962	977	970	974	969	967	970	22
23	959	977	969	981	972	969	966	967	966	963	975	970	967	968	966	971	23

29000 + (C.G.S. UNIT)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Mean	Hour \ Day
Midnight	972	975	975	971	971	969	966	971	970	966	965	975	967	964	969	Midnight
1	971	972	973	971	971	969	966	969	969	966	963	971	966	963	968	1
2	965	971	971	970	969	968	966	969	969	965	963	969	967	963	967	2
3	966	969	969	969	969	967	966	970	968	965	964	969	965	962	966	3
4	966	969	969	968	969	967	965	967	968	965	964	967	967	964	966	4
5	963	970	970	967	968	967	965	967	968	966	965	966	967	964	966	5
6	967	969	970	967	967	966	964	966	967	965	965	965	967	964	966	6
7	964	972	972	969	968	964	962	965	966	966	964	969	969	969	966	7
8	973	974	976	976	973	971	968	973	969	971	969	970	972	975	971	8
9	981	975	982	985	979	983	971	979	974	972	969	978	971	975	974	9
10	981	977	976	981	973	986	970	980	974	967	967	976	964	963	971	10
11	979	972	959	968	956	981	962	970	962	958	954	961	950	944	962	11
Noon	972	967	953	950	945	972	949	961	948	953	943	950	940	929	953	Noon
13	971	968	956	947	945	966	941	957	951	954	940	950	935	929	951	13
14	971	971	957	952	950	961	942	958	955	957	941	950	939	933	953	14
15	973	975	956	953	953	960	949	961	959	959	944	949	941	939	955	15
16	971	974	955	956	957	963	953	962	961	960	951	953	949	947	959	16
17	971	977	957	962	960	965	964	964	964	960	957	961	957	960	963	17
18	972	979	980	967	960	967	970	966	966	963	961	965	952	963	966	18
19	979	980	980	968	965	966	967	968	967	965	962	969	954	965	969	19
20	977	981	981	969	967	967	981	969	967	965	965	969	956	968	969	20
21	980	979	982	972	969	967	982	970	967	965	967	970	956	959	970	21
22	977	979	983	971	968	967	981	970	967	964	971	970	956	970	971	22
23	976	973	983	971	969	967	970	969	966	965	974	969	955	969	969	23

TABLE VI - RESULTS OF METEOROLOGICAL OBSERVATIONS MADE AT THE AEROLOGICAL STATION, VACOAS (424.5 metres above mean sea level) DURING THE MONTH OF APRIL, 1942

Month and Day 1942	Observations at 10 a.m.									Temperature of the Air							Rainfall			
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat. = 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0-10)	3h	9h	15h	21h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Casella Pluviograph	Duration	Duration of Bright Sunshine	Percentage of Possible Sunshine
APR.	mbs	°C	°C	°C	%	mbs	°	m.p.s		°C	°C	°C	°C	°C	°C	°C	mms	mins	hrs	%
1	961.2	22.0	0.2	21.7	99	26.0	170	5.8	9	...	...	22.9	...	27.3	19.2	8.3	1.0	45	5.5	47
2	965.0	22.7	1.9	19.8	84	23.1	140	4.9	7	...	...	21.8	...	24.0	18.8	5.2	7.4	230	6.8	58
3	967.5	23.1	3.8	17.0	69	19.4	110	8.9	4	...	...	...	...	24.8	18.9	5.9	2.4	60	10.5	89
4	969.2	23.2	3.3	17.9	72	20.5	90	7.0	4	...	...	...	...	25.7	19.3	6.4	2.6	90	10.6	90
5	969.2	23.3	2.6	19.2	78	22.2	95	4.5	4	...	...	...	...	26.3	20.1	6.2	2.7	30	2.8	75
6	969.4	24.0	3.4	18.7	73	21.6	110	5.6	6	...	...	...	...	26.3	20.2	6.1	...	...	8.3	75
7	969.1	23.9	2.8	19.5	77	22.7	90	5.4	9	...	...	23.4	20.3	22.3	20.6	5.2	1.0	40	2.8	24
8	968.7	24.1	2.9	19.5	76	22.7	70	3.6	8	20.4	23.2	25.2	20.6	27.0	20.3	6.8	...	...	7.7	66
9	968.6	25.5	2.8	21.3	78	25.3	50	1.8	5	20.6	25.2	25.5	22.5	28.8	20.6	8.2	0.2	15	6.5	56
10	969.1	22.1	0.4	21.5	96	25.6	10	1.6	10	22.3	21.9	22.1	21.9	23.1	21.7	1.4	8.2	415	0.3	3
11	967.5	18.7	0.2	18.4	98	21.2	CALM		10	21.4	19.4	24.9	20.3	26.7	18.8	7.9	61.1	250	3.5	30
12	967.4	23.3	1.5	21.0	87	24.9	90	4.9	9	19.9	23.0	22.3	20.8	24.5	18.8	5.7	2.5	75	0.4	4
13	968.6	21.1	0.6	20.2	95	23.7	135	5.4	10	20.5	21.3	21.7	20.0	22.3	20.5	1.9	2.8	290	0.0	0
14	969.5	20.7	0.7	19.6	94	22.8	110	5.6	10	20.0	20.3	20.7	20.3	22.3	19.8	2.5	3.9	265	0.0	0
15	969.9	20.9	0.4	20.3	97	23.8	90	6.3	10	20.8	20.8	22.1	20.9	22.8	20.0	2.8	13.7	1105	0.2	2
16	969.3	21.4	0.5	20.6	95	24.2	90	4.5	10	20.7	21.3	22.7	21.2	23.9	20.6	3.3	9.0	310	0.9	8
17	969.3	22.6	0.9	21.6	94	25.8	80	4.9	9	21.3	22.8	24.1	22.0	25.0	21.0	4.0	0.6	25	1.4	13
18	969.4	21.1	2.9	20.8	77	24.4	80	4.0	6	21.3	24.6	25.2	21.7	26.4	20.9	5.5	0.2	10	9.9	86
19	969.5	24.0	3.1	19.3	75	22.5	90	5.8	4	21.4	23.8	24.7	21.6	26.4	20.5	5.9	0.1	5	1.9	87
20	971.4	23.7	2.4	20.0	80	23.4	100	4.6	8	20.9	23.4	23.0	21.3	25.0	20.2	4.8	1.3	50	6.0	53
21	970.6	22.6	1.9	21.0	91	24.9	100	3.6	5	20.7	22.4	23.5	20.6	25.5	20.5	5.0	1.0	30	9.2	80
22	969.2	23.2	3.0	18.5	75	21.3	90	5.8	5	20.1	23.0	23.5	20.2	25.4	19.8	5.6	6.2	95	10.3	90
23	968.9	22.9	2.3	19.3	81	22.4	90	4.5	8	19.8	22.4	23.7	20.4	25.0	19.0	6.0	2.2	65	9.6	84
24	968.4	23.0	3.1	18.1	74	20.8	80	3.8	4	19.3	22.5	24.0	20.8	25.3	18.9	5.4	...	...	10.7	93
25	967.4	23.2	1.4	21.1	88	25.0	75	2.5	9	20.4	23.1	23.1	21.2	25.5	20.0	5.5	3.2	90	3.6	32
26	967.1	23.5	2.0	21.5	88	25.6	75	5.8	7	19.8	22.6	24.4	21.2	25.9	19.4	6.5	3.3	100	7.6	67
27	966.6	23.7	2.5	19.8	79	23.1	CALM		7	20.6	23.4	27.2	21.1	29.0	20.1	8.9	0.3	10	7.0	62
28	966.9	24.8	3.1	20.2	76	23.7	CALM		2	17.8	24.2	25.1	19.2	28.4	17.4	11.0	...	...	8.1	71
29	969.2	24.7	4.1	18.3	68	21.0	CALM		0	17.1	24.4	24.2	20.4	27.9	16.4	11.5	...	...	7.2	64
30	968.4	23.2	2.0	21.1	88	25.0	CALM		5	18.6	24.0	25.6	19.1	27.7	18.4	9.3	...	...	9.7	86
Mean	966.4	23.0	2.1	19.9	83.4	23.3	...	4.0	6.8	20.2	22.7	24.0	20.8	25.7	19.7	6.0	236.9	3700	6.12	53.2
Average	966.6	23.3	2.0	20.3	83.2	23.8	...	4.2	6.4	...	...	...	...	25.3	19.3	6.0	287.1	...	6.50	56.4
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

EXCESS OF CERTAIN ELEMENTS AT PAMPLEMOUSSES OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	+ 43.5 mbs	Amount of Rain	- 73.0 mms
Temperature of the air	+ 3.0°C	Duration of Sunshine	+ 42.0 hrs
Vapour Pressure	+ 1.9 mbs	Mean of Maximum Temperature	+ 1.7°C
Relative Humidity	- 8.4 %	Mean of Minimum Temperature	+ 2.0°C
Velocity of Wind	+ 0.4 m.p.s.	Absolute Maximum Temperature	+ 0.2°C
Amount of Cloud	- 0.5	Absolute Minimum Temperature	+ 2.7°C

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF APRIL, 1942

Month and Day 1942	Atmospheric Pressure: Mean	Atmospheric Pressure: Excess above Average	Temperature of the Air: Daily Maximum	Temperature of the Air: Daily Minimum	Temperature of the Air: Daily Range	Temperature of the Air: Mean	Temperature of the Air: Excess above Average	Excess of Air Temp. over Evaporation Temperature	Temperature of the Dew Point: Mean	Temperature of the Dew Point: Excess above Average	Relative Humidity (Sat. = 100): Mean	Relative Humidity (Sat. = 100): Excess above Average	Vapour Pressure	Minimum on the grass	Rainfall: Amount recorded by Dines Pluviograph	Rainfall: Duration	Amount of Evaporation	Mean Amount of Cloud (Scale 0-10)
APR.	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C	mms	min.	mms	
1	1001.5	- 5.0	28.7	22.3	6.4	25.0	+ 0.2	4.2	18.4	- 3.1	67	-15	21.2	20.4	0.1	5	4.9	7.3
2	1005.9	- 0.6	27.4	21.3	6.4	24.0	- 0.8	3.0	19.4	- 2.1	76	- 6	22.5	16.5	0.8	35	6.5	5.8
3	1009.2	+ 2.6	27.6	20.8	6.8	23.9	- 0.8	3.8	17.9	- 3.5	69	-13	20.5	16.0	1.4	90	5.3	4.3
4	1010.1	+ 3.4	28.1	20.8	7.3	24.2	- 0.5	3.4	18.9	- 2.5	72	-10	21.8	15.5	0.3	10	6.8	3.6
5	1009.9	+ 3.1	28.2	21.0	7.2	24.4	- 0.3	2.5	20.5	- 0.9	79	- 3	24.1	17.7	5.9	70	5.9	4.4
6	1010.1	+ 3.2	28.2	22.1	6.1	24.8	+ 0.2	3.3	19.8	+ 1.5	74	- 8	23.1	18.9	0.1	5	3.7	5.8
7	1009.6	+ 2.6	27.7	22.8	4.9	24.7	+ 0.1	2.7	20.6	- 0.7	78	- 4	24.2	20.0	0.2	15	5.5	6.5
8	1009.0	+ 2.0	28.8	22.9	5.9	24.9	+ 0.4	3.1	20.2	- 1.0	75	- 7	23.7	20.9	0.0	..	3.7	5.6
9	1009.1	+ 2.0	29.2	22.4	6.8	25.5	+ 1.0	2.4	21.9	+ 0.7	80	- 2	26.3	18.3	0.0	...	5.7	4.0
10	1009.4	+ 2.2	25.0	23.0	2.0	24.3	- 0.1	0.6	28.4	+ 2.3	95	+13	28.8	21.3	9.9	245	3.5	10.0
11	1007.4	+ 0.2	26.4	21.9	4.5	23.9	- 0.5	1.0	22.4	+ 1.3	91	+ 9	27.1	20.5	21.9	275	0.4	8.6
12	1007.8	+ 0.5	27.6	21.1	6.5	24.2	- 0.1	1.9	21.3	+ 0.3	84	+ 2	25.3	18.5	0.0	...	3.0	8.5
13	1009.0	+ 1.7	25.0	22.3	2.7	23.5	- 0.8	1.9	20.6	- 0.4	83	+ 1	24.2	21.2	2.8	305	3.5	9.9
14	1010.2	+ 2.8	25.3	22.3	3.0	23.7	- 0.5	2.3	20.1	- 0.8	80	- 2	23.5	20.0	0.2	30	1.7	10.0
15	1010.3	+ 2.8	25.6	21.0	4.6	23.4	- 0.8	1.1	21.7	+ 0.8	90	+ 8	26.0	19.2	100.4	700	1.8	10.0
16	1009.7	+ 2.2	26.2	22.1	4.1	24.0	- 0.1	1.4	21.9	+ 1.1	88	+ 7	26.3	20.5	12.9	320	...	9.3
17	1009.8	+ 2.2	26.9	23.0	3.9	24.5	+ 0.5	1.4	22.4	+ 1.7	88	+ 7	27.1	21.4	2.6	95	2.4	8.7
18	1010.1	+ 2.4	27.9	22.6	5.3	24.9	+ 0.9	2.2	21.7	+ 1.0	83	+ 2	26.0	20.2	0.0	...	2.6	3.5
19	1010.9	+ 3.1	28.1	22.4	5.7	24.8	+ 0.9	2.5	21.0	+ 0.5	80	- 1	25.0	20.4	0.0	...	5.4	3.2
20	1011.9	+ 4.0	27.3	22.1	5.2	24.5	+ 0.6	2.6	20.5	0.0	78	- 3	24.1	20.0	0.0	...	5.0	5.7
21	1010.9	+ 3.0	27.2	22.3	4.9	24.2	+ 0.4	2.4	20.5	+0.1	80	- 1	24.1	19.5	0.0	...	5.1	3.0
22	1010.0	+ 2.0	27.6	22.0	5.6	24.0	+ 0.2	2.7	19.8	- 0.6	78	- 3	23.1	19.0	0.3	30	4.8	3.3
23	1009.6	+ 1.5	27.1	21.2	5.9	23.8	+ 0.1	2.4	20.1	- 0.2	80	- 1	23.5	18.8	0.4	30	5.3	4.9
24	1008.7	+ 0.5	27.2	20.3	6.9	23.7	0.0	2.7	19.5	- 0.8	77	- 4	22.7	17.6	0.0	...	4.7	3.4
25	1007.5	- 0.7	27.2	22.3	4.9	24.5	+ 0.9	1.6	22.2	+ 2.0	87	+ 6	26.8	19.3	1.1	25	4.0	5.7
26	1006.8	- 1.5	27.8	21.6	6.2	24.0	+ 0.5	1.9	21.1	+ 1.0	84	+ 3	25.0	19.3	0.2	20	3.7	5.5
27	1006.8	- 1.5	28.2	21.6	6.6	24.4	+ 0.9	1.8	21.7	+ 1.6	85	+ 4	26.0	19.0	2.4	85	6.0	4.0
28	1007.6	- 0.9	28.3	20.1	7.2	24.0	+ 0.6	2.3	20.4	+ 0.4	81	0	24.0	17.0	0.0	..	4.2	1.2
29	1009.5	+ 0.9	28.7	19.1	9.6	23.6	+ 0.2	2.3	20.0	0.0	80	- 1	23.4	15.5	0.0	..	4.7	1.0
30	1008.4	- 0.3	28.0	19.4	8.6	23.5	+ 0.2	2.2	20.1	+ 0.2	81	0	23.5	15.6	0.0	..	4.8	2.3
Mean	1008.9	+ 1.3	27.4	21.7	5.7	24.2	+ 0.1	2.3	20.7	0.0	80.8	- 0.7	24.4	18.9	Sum 163.9	Sum 2390	4.1	5.6
Average	1007.6	...	27.6	21.1	6.5	24.1	...	2.2	20.7	...	81.5	...	24.4	18.3	126.4	1522	4.4	5.3
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

General Weather Conditions during the month of April, 1942

There was no cyclonic activity of importance. On the 1st the cyclone reported at the end of March was centred east-south-east of Rodrigues moving east-south-east. From the 10th-11th a small weak "low" developed just south-south-east of Mauritius. It moved south-south-east and apparently merged with an extra-tropical depression.

Mean pressure was 1.3 millibars above normal, the largest departure from normal being -5.0 millibars on the 1st. Mean temperature and humidity were about normal as were cloudiness, sunshine and wind velocity. Rainfall was 30% above normal and duration 57% but 79% of the rain fell on one day.

TABLE VII (Cont'd) - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF APRIL, 1942

Month and Day 1942	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the Soil: 10 Feet	5 Feet	2 Feet	12 Inches	WEATHER
APR.	hrs	%	m.p.s.	m.p.s.	°C	°C	°C	°C	0h 3h 6h 9h 12h 15h 18h 21h 24h
1	7.5	63	3.9	+ 0.7	25.7	27.6	28.7	28.4	c bc o:o c bc
2	7.6	64	3.7	+ 0.5	25.6	27.4	28.6	28.0	bc bcro bc b bro bc
3	10.8	92	3.8	+ 0.6	25.6	27.3	28.6	28.1	cro bc b bc b
4	10.5	89	3.6	+ 0.4	25.6	27.4	28.4	27.8	bc b bro b
5	9.4	80	3.4	+ 0.2	25.7	27.4	28.2	27.7	bro cr bcro bc bcqo bcro b
6	9.9	84	3.7	+ 0.5	25.7	27.5	28.2	27.8	bcro bc c bc
7	4.3	36	3.6	+ 0.4	25.7	27.4	28.1	27.8	b bc v vqro c bc b
8	8.8	75	2.8	- 0.5	25.7	27.4	28.1	27.6	bc c bc
9	10.6	91	2.1	- 1.2	25.7	27.5	28.0	27.8	bc b bl b
10	0.0	0	1.5	- 1.8	25.7	27.4	28.1	27.9	o olRo oro otro oro c
11	3.8	32	1.7	- 1.6	25.7	27.4	28.0	27.3	c cro oRR oro c
12	4.9	42	2.9	- 0.4	25.8	27.4	27.9	26.9	bc c o c
13	0.0	0	3.4	+ 0.1	25.8	27.3	27.8	27.2	o oro ororo oro
14	0.0	0	5.0	+ 1.7	25.8	27.4	27.7	26.7	o ogqo o oro
15	0.8	7	4.5	+ 1.2	25.8	27.0	27.5	25.9	o obo oRR otro oqro ouggro ogRR
16	2.1	18	4.9	+ 1.6	25.9	27.3	26.8	25.3	oro oR og cg c cro c
17	3.4	29	3.5	+ 0.2	25.8	27.3	26.7	25.5	o oro ogro o bc
18	10.8	93	3.3	0.0	25.8	27.4	26.7	26.0	b bc b
19	10.4	90	3.7	+ 0.4	25.8	27.7	26.7	26.4	b bc b
20	9.1	79	4.3	+ 1.0	25.9	27.2	26.9	26.7	b bc c
21	10.8	94	3.7	+ 0.4	25.9	27.2	26.9	26.6	b bc b
22	10.8	94	4.2	+ 0.9	25.9	27.1	27.0	26.6	bo b bc bcro
23	11.1	97	3.7	+ 0.4	25.9	27.1	27.0	26.6	bc bcro cro bc b bo
24	10.8	94	3.0	- 0.3	25.9	27.1	27.0	26.6	bc b bc b
25	.3	64	2.6	- 0.7	25.9	26.8	27.0	26.5	b bro bc c cro c cro clro
26	5.7	76	2.7	- 0.6	25.9	26.9	27.0	26.7	b bc b bro
27	9.5	83	1.6	- 1.7	25.9	26.9	27.0	26.8	bcro bc b
28	11.1	97	1.7	- 1.6	25.9	26.8	27.0	27.0	bo b bo
29	9.9	87	1.8	- 1.5	25.9	26.8	27.1	26.9	bo b bo
30	10.8	95	1.7	- 1.6	26.0	26.8	27.1	26.9	bo b bc b
Mean	7.52	64.8	3.20	- 0.08	25.79	27.24	27.53	27.00	
Average	7.55	65.0	3.28	...	25.57	26.90	27.07	26.91	
Column	19	20	21	22	23	24	25	26	27

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF APRIL, 1942

Atmospheric Pressure	1,013.3 mbs	at 09.00	on 20th	999.4 mbs	at 03.00	on 1st
Temperature of the air	29.2°C	at 13.40	on 9th	19.1°C	at 06.25	on 29th
Daily Range of Temperature of the Air	9.6°C		on 29th	2.0°C		on 10th
Temperature of the Dew Point	25.0°C	at 08.00	on 11th	15.7°C	at 11.00	on 3rd
Minimum on grass				15.5°C		on 4th & 29th
Relative Humidity	98.1 %	at 08.00	on 11th	49.9 %	at 11.& 13	on 3rd
Vapour Pressure	31.7 mbs	at 08.00	on 11th	17.8 mbs	at 11.00	on 3rd
Evaporation in 24 hrs	6.8 mms		on 4th			on 11th
Wind Velocity	7.1 m.p.s.	at 14.00	on 15th	0.6 m.p.s.		often
Rainfall in 24 hrs	109.5 mms	ending 05.00	on 16th			
Duration of Sunshine	11.1 hrs		on 23rd & 28th	0.0 hr		often

Mean Day Temperature of Air 25.65°C Average ... Mean Night Temperature of Air 22.81°C Average ...

NUMBER OF DAYS OF

Mean Cloud Amount: 0	1 - 3	4 - 6	7 - 9	10	Rainfall: 0.1 - 0.9 mms.	1.0 - 4.9 mms.	5.0 - 9.9 mms	10.0 - 24.9 mms	25.0 & over mms.	Lightning	Thunderstorm
...	8	13	5	4	9	5	2	2	1	3	...

TABLE VIII - ATMOSPHERIC PRESSURE IN MILLIBARS AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level). The cistern of the barometer is 55.2 metres above mean sea level)

APRIL, 1942

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	000	050	091	110	111	104	107	101	093	099	090	084	088	108	113	101	Midnight
1	998	046	090	106	110	103	105	100	091	093	090	081	083	100	104	097	1
2	996	041	084	105	102	099	100	093	089	089	081	077	081	095	102	094	2
3	994	040	081	102	096	092	092	090	085	090	073	071	079	090	100	092	3
4	995	039	080	101	093	091	086	081	081	090	070	071	073	089	099	088	4
5	998	041	080	100	096	095	087	081	081	089	070	071	073	086	098	088	5
6	001	046	081	101	100	100	088	083	082	091	068	073	079	090	101	090	6
7	009	051	088	105	103	104	097	090	090	097	071	078	086	097	108	094	7
8	013	061	092	110	106	109	100	100	095	102	072	083	095	107	117	100	8
9	020	063	099	111	108	111	104	101	101	108	079	090	103	114	116	103	9
10	022	063	098	110	109	112	102	100	100	109	089	090	104	115	119	109	10
11	020	061	097	108	104	110	103	091	099	107	080	082	102	111	111	109	11
Noon	014	060	091	101	098	104	099	089	087	101	075	077	093	108	104	102	Noon
13	010	053	088	092	090	095	090	080	082	094	065	071	087	103	096	097	13
14	002	053	082	087	086	091	083	074	080	092	061	069	086	095	090	090	14
15	003	050	081	082	083	091	088	077	080	090	058	064	084	093	089	087	15
16	007	051	082	083	086	091	083	079	082	081	052	065	085	100	089	086	16
17	014	056	086	086	090	093	084	080	088	071	060	067	087	101	090	086	17
18	018	064	091	090	092	099	090	084	096	086	066	072	090	101	100	092	18
19	023	072	100	100	096	100	091	091	100	089	069	078	091	104	107	100	19
20	032	081	105	108	101	105	100	097	101	100	079	085	091	112	110	107	20
21	041	088	110	112	106	109	105	100	101	101	086	089	100	114	111	107	21
22	046	090	110	111	106	111	107	100	102	097	090	090	101	112	109	104	22
23	050	090	111	111	105	111	105	098	100	091	087	089	105	110	103	103	23

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Mean	Hour \ Day
Midnight	101	102	113	120	122	106	110	102	087	079	075	080	099	101	095	Midnight
1	097	101	111	119	119	103	106	100	082	071	071	072	096	099	091	1
2	096	100	110	117	116	100	099	090	080	062	069	070	093	093	087	2
3	092	095	103	115	110	095	092	085	073	060	062	068	091	088	083	3
4	086	094	101	113	109	094	091	081	071	060	061	063	091	083	081	4
5	087	097	101	113	107	095	093	083	070	060	060	065	091	083	081	5
6	090	099	101	119	110	098	095	090	071	073	062	070	092	084	084	6
7	100	102	106	126	114	101	100	091	077	077	070	073	101	086	090	7
8	103	110	110	130	121	106	101	099	080	071	074	080	105	090	095	8
9	109	111	111	133	121	107	102	100	082	078	079	082	109	091	098	9
10	110	110	112	131	120	108	101	101	081	090	080	083	110	092	099	10
11	106	107	111	130	117	106	099	092	080	081	074	080	103	090	096	11
Noon	102	101	107	121	111	101	094	082	074	070	066	071	099	082	089	Noon
13	096	093	106	112	102	093	086	080	070	061	061	065	091	075	083	13
14	090	090	101	111	098	091	085	073	062	057	054	061	082	069	078	14
15	086	088	101	110	095	087	083	072	061	051	050	060	080	063	076	15
16	084	089	106	109	097	088	084	071	060	051	052	063	082	064	077	16
17	087	091	106	110	098	090	076	074	062	057	060	070	088	070	080	17
18	093	096	109	111	101	092	090	080	070	061	065	074	090	073	085	18
19	098	103	113	115	102	097	098	083	074	065	070	080	092	078	089	19
20	103	109	119	121	110	102	102	089	071	079	079	089	100	084	096	20
21	110	111	121	127	111	108	109	091	081	076	081	092	102	091	100	21
22	110	113	123	130	111	110	107	090	083	076	081	097	101	091	100	22
23	104	113	120	124	107	111	106	089	081	079	080	099	101	093	099	23

TABLE IX - AMOUNT OF CLOUD AT EVERY HOUR OF THE DAY (0- CLEAR SKY, 10- OVERCAST SKY)

Hour \ Day	APRIL, 1942																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Mean
Midnight	9	5	8	5	2	4	3	4	4	10	10	7	10	10	10	10	10	3	1	1	1	0	4	0	1	7	5	0	0	0	4.8
1	9	5	8	3	2	7	3	5	5	10	10	7	10	10	10	10	10	3	1	1	1	0	4	3	1	8	5	0	0	0	5.0
2	9	5	8	6	2	7	3	6	5	10	9	6	10	10	10	10	10	3	1	1	1	0	4	3	1	8	5	0	0	0	5.1
3	9	4	8	8	2	3	3	7	5	10	9	6	10	10	10	10	10	3	1	2	1	0	4	4	1	8	5	1	0	0	5.1
4	9	4	8	5	2	3	3	7	5	10	9	7	10	10	10	10	10	5	1	3	1	0	4	4	1	8	5	1	0	0	5.2
5	6	9	3	3	10	4	9	8	5	10	9	7	10	10	10	10	10	5	1	3	1	1	8	4	2	9	5	1	0	0	5.8
6	4	9	1	3	10	8	9	9	5	10	8	8	9	10	10	10	9	6	1	5	1	1	8	3	2	9	5	1	0	1	5.8
7	4	8	1	6	9	5	9	8	5	10	8	8	9	10	10	10	9	6	1	5	1	1	8	3	2	8	5	1	0	1	5.7
8	7	7	3	4	7	5	9	7	6	10	9	9	10	10	10	10	9	6	2	5	4	3	8	2	5	8	4	2	0	1	6.1
9	10	6	5	4	5	4	9	7	6	10	9	9	10	10	10	10	9	6	3	5	7	4	8	2	8	8	4	2	0	1	6.4
10	10	6	4	4	4	4	9	6	4	10	9	9	10	10	10	10	6	4	6	5	4	3	4	9	8	4	2	0	3	1	6.3
11	9	8	3	4	3	5	10	5	4	10	9	9	10	10	10	10	10	4	5	7	7	4	5	5	9	8	5	2	0	4	6.5
Noon	10	9	3	3	3	5	8	4	4	10	10	10	10	10	10	10	8	6	7	8	5	6	6	8	7	5	2	2	2	5	6.8
13	9	9	4	4	5	5	9	4	4	10	9	9	10	10	10	9	10	5	6	7	6	5	8	5	9	5	5	1	2	6	6.7
14	8	8	4	4	5	6	9	4	4	10	9	9	10	10	10	9	10	4	5	6	5	8	5	8	5	5	1	3	7	4	6.5
15	7	5	5	3	6	6	9	4	5	10	10	10	10	10	10	10	10	3	5	6	7	6	6	6	8	5	5	3	4	8	6.6
16	7	4	5	3	5	7	9	4	4	10	10	10	10	10	10	10	10	2	5	7	5	5	5	4	8	3	4	3	4	5	6.1
17	8	2	4	2	4	9	8	5	2	10	10	10	10	10	10	10	10	1	5	9	2	4	4	2	8	2	3	2	3	3	5.5
18	8	2	4	2	3	9	7	6	2	10	10	10	10	10	10	9	10	1	5	9	3	4	4	2	7	2	3	2	3	3	5.6
19	4	2	4	3	4	8	3	6	2	10	10	10	10	10	10	9	7	1	5	10	1	5	4	2	7	2	3	1	2	3	5.2
20	7	3	3	3	3	6	4	5	2	10	8	8	10	10	10	8	5	1	4	8	1	5	3	2	7	1	3	0	1	1	4.7
21	5	4	4	2	3	6	4	4	2	10	8	8	10	10	10	8	5	1	3	8	1	5	3	5	7	1	2	0	1	1	4.7
22	4	6	3	2	3	6	3	5	2	10	8	8	10	10	10	8	5	1	3	8	1	5	0	2	8	1	2	0	0	1	4.5
23	5	7	2	2	3	6	3	5	2	10	8	8	10	10	10	8	5	1	3	8	1	5	0	2	8	1	1	0	0	1	4.5

TABLE X - DURATION OF BRIGHT SUNSHINE AT EVERY HOUR OF THE DAY AS RECORDED BY THE CAMPBELL-STOKES SUNSHINE RECORDER

Hour Ending \ Day	APRIL, 1942																														Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	hrs
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
7	1	6	15	0	14	9	12	0	30	0	6	0	0	0	0	0	0	20	15	20	27	29	28	29	17	5	0	30	37	29	6.3
8	50	28	60	55	55	60	60	25	60	0	5	0	0	0	0	0	0	60	60	60	60	60	60	60	50	27	0	60	60	60	18.9
9	60	60	60	60	60	60	42	35	58	0	0	35	0	0	0	0	25	60	60	60	60	60	60	60	60	25	60	60	60	60	21.6
10	35	45	60	60	60	60	2	50	55	0	0	36	0	0	0	0	29	60	60	60	60	60	60	54	60	58	60	60	60	60	2[illegible].1
11	45	60	60	60	60	60	29	55	60	0	0	47	0	0	0	0	16	60	60	60	60	60	60	60	55	60	55	60	60	60	22.0
Noon	53	25	60	60	60	60	5	60	60	0	0	26	0	0	0	0	14	60	60	60	60	60	60	60	53	40	60	60	60	60	20.5
13	60	12	60	60	60	60	25	60	60	0	8	22	0	0	0	0	0	60	60	60	60	60	60	60	47	60	60	60	60	60	20.9
14	60	35	60	60	60	60	12	60	60	0	60	45	0	0	20	0	10	60	60	60	60	60	60	60	43	60	60	60	60	60	22.7
15	39	43	60	60	60	60	12	60	60	0	60	42	0	0	0	26	25	60	60	54	60	60	60	60	23	60	60	60	60	57	22.4
16	25	60	60	60	45	60	37	60	54	0	43	28	0	0	0	36	43	60	60	54	60	60	60	60	26	60	60	60	60	54	22.4
17	22	55	60	60	16	45	19	40	58	0	7	12	0	0	30	44	36	60	60	0	60	60	60	60	3	45	60	5[illegible]	2[illegible]	58	18.5
18	0	30	32	36	12	0	1	25	19	0	37	0	0	0	0	18	1	30	10	0	25	22	33	30	0	25	32	0	35	40	8.2
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0

TABLE XI - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, ASDEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the Absolute Scale add 273)

APRIL, 1942

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	25.0	3.0	22.3	3.0	22.5	1.6	22.2	2.5	22.5	1.4	23.1	2.1	23.3	2.0	23.3	2.1	Mid-night
1	24.7	3.6	21.9	2.5	22.3	1.1	22.1	2.8	22.2	1.4	22.4	2.2	23.1	1.8	23.5	1.9	1
2	24.0	2.8	22.8	3.3	22.0	1.1	21.3	2.3	21.8	1.6	22.2	2.1	23.0	2.0	23.3	2.1	2
3	24.2	3.2	22.4	2.8	22.1	2.0	22.2	3.0	22.0	1.1	22.5	2.5	22.9	1.8	22.9	1.7	3
4	24.1	3.8	21.3	2.1	21.7	2.4	21.5	1.8	22.2	1.2	22.2	1.5	22.8	1.8	23.1	2.0	4
5	23.7	3.8	22.0	2.9	21.2	2.2	21.0	2.0	22.0	1.0	22.1	1.5	23.0	1.8	23.2	2.2	5
6	23.1	4.7	22.2	1.9	21.0	2.3	21.3	2.3	21.2	0.4	22.9	2.1	23.2	1.6	22.9	2.0	6
7	23.3	4.4	22.7	2.0	21.6	2.6	22.0	2.5	22.1	0.6	23.1	1.9	23.4	1.5	23.0	1.9	7
8	24.9	4.5	23.4	1.5	24.2	3.4	24.3	3.1	24.7	1.9	25.7	3.4	25.7	2.7	24.5	2.4	8
9	26.3	5.2	26.0	3.9	25.3	4.0	26.1	4.8	25.3	2.8	26.8	4.2	26.4	3.5	25.9	2.9	9
10	26.2	4.9	27.2	4.1	26.3	5.7	27.1	5.8	26.5	3.7	26.7	3.8	26.2	3.3	26.7	4.0	10
11	26.6	4.3	27.1	4.5	27.0	7.0	27.3	6.0	27.1	4.3	27.0	4.0	26.8	3.8	27.1	4.5	11
Noon	27.1	4.1	26.0	3.5	27.2	6.5	27.4	6.0	27.8	5.3	27.6	4.6	26.8	4.0	27.9	4.9	Noon
13	28.0	5.9	26.8	4.4	27.1	7.0	28.1	6.1	27.5	5.1	28.0	5.4	27.3	4.2	28.2	5.2	13
14	28.3	6.3	26.0	3.9	27.1	6.9	27.9	6.3	27.9	4.9	27.5	5.4	26.8	3.9	28.4	5.3	14
15	26.9	5.2	26.8	4.9	26.7	5.9	27.1	5.3	27.7	4.7	27.2	5.3	25.2	3.2	28.1	5.4	15
16	26.0	4.3	26.2	4.9	26.1	5.4	26.9	4.7	26.3	3.2	27.1	4.8	25.6	3.4	27.4	4.8	16
17	25.5	4.4	25.8	4.3	25.2	5.2	26.0	4.3	25.1	2.4	26.1	4.0	25.2	3.0	26.1	4.1	17
18	25.0	4.7	24.4	3.3	24.1	4.2	24.8	3.5	24.6	2.5	24.6	3.4	25.1	2.8	24.8	3.2	18
19	24.3	4.0	23.5	2.4	23.2	3.3	23.6	2.4	23.7	1.8	23.8	2.7	25.0	3.1	24.0	2.8	19
20	24.2	3.4	22.9	1.9	22.7	3.0	23.3	1.7	23.9	2.0	23.7	2.4	24.4	3.1	23.5	2.2	20
21	23.7	3.6	22.8	1.7	22.9	3.1	22.9	1.8	23.9	2.1	24.1	2.8	24.0	2.2	23.0	1.9	21
22	23.1	2.8	22.1	2.1	23.0	2.9	22.7	1.7	23.7	2.1	24.0	2.7	24.0	2.2	23.1	1.8	22
23	23.7	4.1	22.0	1.7	21.8	2.7	22.5	1.5	23.3	2.0	23.8	2.4	23.8	2.0	23.1	1.8	23

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	23.1	2.0	24.2	1.0	23.6	0.5	22.1	0.9	23.6	1.7	22.7	2.4	23.7	1.7	22.9	0.6	Mid night
1	23.0	1.9	24.4	1.0	23.1	0.5	21.8	0.9	23.6	1.9	22.8	2.7	23.6	1.5	22.8	0.7	1
2	23.0	1.8	24.4	0.9	23.4	0.4	21.2	1.0	23.6	1.6	22.9	2.8	23.6	1.5	23.1	0.8	2
3	22.9	1.4	24.5	0.9	23.7	0.6	21.2	1.1	23.5	1.5	23.1	2.4	23.5	1.4	23.1	0.6	3
4	22.9	1.7	24.5	0.8	23.3	0.3	22.1	1.0	23.5	1.6	23.1	2.1	23.3	1.1	22.6	0.6	4
5	22.8	1.6	24.5	0.8	23.8	0.6	22.9	1.2	23.2	1.4	22.9	2.0	23.9	1.6	22.7	0.6	5
6	23.4	1.6	24.7	1.0	24.0	0.6	22.9	1.3	23.3	1.5	23.0	2.1	23.2	1.1	23.1	0.9	6
7	24.3	1.4	23.1	0.5	24.9	0.6	23.1	1.1	23.7	1.7	23.1	2.2	23.0	1.1	23.0	0.9	7
8	26.3	2.3	23.3	0.3	25.3	0.2	24.1	1.4	24.1	2.0	23.2	2.2	21.2	1.2	23.1	0.9	8
9	27.6	3.3	24.1	0.6	25.9	0.8	25.7	2.1	24.2	2.1	23.9	2.7	22.7	0.6	23.7	0.8	9
10	28.1	4.0	24.2	0.5	22.7	0.7	26.0	2.4	24.3	2.2	24.9	2.9	23.1	0.8	24.2	1.3	10
11	28.3	3.6	24.5	0.5	22.1	0.8	27.1	3.3	24.6	2.5	25.0	2.5	23.8	0.8	24.6	1.6	11
Noon	28.0	4.2	24.9	0.8	22.8	0.8	26.1	2.8	24.8	2.8	25.0	2.4	24.6	1.3	24.9	1.7	Noon
13	23.7	4.3	24.7	0.6	22.6	0.7	26.6	2.9	25.0	3.1	25.1	2.7	24.3	0.9	25.2	2.3	13
14	28.5	4.5	25.0	0.6	25.0	2.0	26.1	2.9	24.2	2.3	25.2	3.0	25.1	1.6	25.3	2.3	14
15	28.2	4.0	24.9	0.6	26.3	2.6	26.0	2.9	23.6	1.8	24.4	2.9	25.2	2.0	26.0	2.8	15
16	27.5	3.4	24.4	0.3	25.7	2.6	25.3	2.2	23.2	1.3	24.2	2.9	25.1	2.0	25.9	2.7	16
17	27.1	3.0	24.4	0.4	25.3	2.0	25.6	3.0	23.0	1.4	24.2	3.0	24.9	1.9	25.6	2.6	17
18	26.1	2.1	24.7	0.5	24.8	1.7	24.1	1.8	22.8	1.7	24.0	2.9	22.2	1.0	24.2	2.0	18
19	25.1	1.8	24.2	0.3	23.4	1.1	23.8	1.7	22.8	1.8	24.0	2.9	22.1	0.1	24.1	1.4	19
20	24.4	1.3	24.1	0.4	22.9	1.1	23.7	1.7	22.9	2.2	23.1	1.3	22.6	0.4	23.1	0.6	20
21	24.2	1.2	24.1	0.3	23.0	0.9	23.7	1.6	22.4	1.8	23.0	1.1	22.0	0.7	23.7	1.4	21
22	24.1	1.0	24.1	0.3	23.1	0.9	23.9	1.8	22.5	1.9	23.2	1.3	22.5	0.5	23.9	1.0	22
23	24.1	1.0	23.6	0.5	22.5	0.7	23.8	1.7	22.9	2.4	23.2	1.4	22.1	0.3	24.1	1.7	23

TABLE XI (Ctd) - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, ASDEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the absolute scale add 273)

APRIL, 1942

Day / Hour	17		18		19		20		21		22		23		24		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	24.0	1.6	23.6	1.3	23.5	1.5	23.3	2.0	23.3	1.4	22.6	2.3	22.1	1.4	21.8	1.7	Mid-night
1	23.9	1.5	23.1	1.0	23.3	1.3	23.1	1.9	23.1	1.8	22.2	1.9	21.6	1.5	21.2	1.6	1
2	24.0	1.5	22.9	1.0	23.1	1.1	23.1	1.9	22.9	1.7	22.1	1.9	21.2	1.3	21.0	1.9	2
3	23.9	1.3	23.0	0.9	23.1	1.2	23.0	2.0	22.4	1.3	22.1	1.8	21.9	1.6	21.5	1.8	3
4	23.8	1.1	23.5	1.2	23.1	1.2	22.2	1.4	22.5	1.4	22.2	2.0	22.0	1.4	21.5	1.3	4
5	23.1	0.8	23.4	1.1	22.8	1.5	22.1	1.2	22.5	1.4	22.1	2.0	22.0	1.5	21.0	1.7	5
6	23.2	0.5	23.2	1.1	22.4	1.3	22.5	1.3	22.5	1.4	22.1	2.0	21.9	1.1	20.4	1.4	6
7	23.7	0.8	23.7	1.3	23.0	1.3	23.3	1.3	23.1	1.3	22.6	2.3	22.6	1.2	21.2	1.6	7
8	23.3	0.6	25.2	2.0	25.2	2.4	25.3	2.5	25.1	2.5	24.5	2.6	23.9	2.1	24.0	2.9	8
9	25.1	1.4	26.1	2.5	26.1	3.1	26.1	3.4	25.1	3.0	26.1	3.8	25.1	2.8	25.9	4.2	9
10	26.0	1.7	26.9	3.0	26.8	3.5	26.6	3.7	25.9	3.4	26.2	4.1	26.0	3.9	26.0	4.1	10
11	26.0	2.2	27.0	3.2	27.1	4.0	26.4	3.7	26.7	3.6	26.5	4.5	26.1	3.4	26.3	4.5	11
Noon	26.3	2.3	26.3	3.2	27.1	4.3	26.8	4.1	26.3	3.3	27.0	4.5	27.0	4.4	26.2	4.2	Noon
13	26.2	2.4	27.2	3.2	27.6	4.4	27.0	4.2	27.0	3.7	27.2	4.8	27.1	4.5	26.4	5.1	13
14	26.0	2.1	27.6	3.5	27.8	4.6	27.0	4.4	26.7	3.7	26.2	3.6	27.0	4.7	27.1	5.1	14
15	25.7	1.6	27.1	3.8	27.2	4.0	26.0	3.2	26.8	3.7	26.7	4.4	26.6	4.4	26.1	4.0	15
16	26.3	2.5	27.0	3.8	26.8	3.8	25.9	3.9	26.1	3.2	26.1	4.0	26.0	3.7	26.1	4.0	16
17	25.6	2.4	26.2	3.1	25.7	2.8	25.0	3.0	25.2	2.6	25.1	3.3	25.0	3.0	25.3	3.3	17
18	24.8	1.7	25.0	2.0	24.6	2.3	24.2	2.2	23.9	1.8	24.0	2.2	23.8	2.5	24.0	2.2	18
19	24.0	1.1	24.1	1.8	24.1	2.0	24.1	2.1	23.3	2.0	23.2	2.0	22.9	1.8	23.1	1.9	19
20	24.0	1.2	24.1	2.0	24.0	2.0	24.1	2.1	23.2	2.0	22.9	1.8	22.7	1.6	23.0	1.8	20
21	23.7	1.3	23.9	1.9	23.5	1.7	24.0	2.0	23.0	2.4	22.6	1.5	22.2	1.3	23.0	1.7	21
22	23.2	1.1	23.7	1.8	23.3	1.6	23.7	1.9	22.8	2.8	22.2	1.2	22.3	1.4	23.1	1.4	22
23	23.3	1.1	23.7	1.8	23.1	1.7	23.3	2.0	22.6	2.5	22.2	1.3	22.1	1.5	22.9	1.2	23

Day / Hour	25		26		27		28		29		30		Mean		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	22.6	1.1	23.4	0.8	22.2	0.6	21.6	1.0	21.2	1.2	21.1	1.4	22.9	1.6	Mid-night
1	23.0	1.0	23.1	1.1	22.0	1.0	21.3	1.0	21.0	1.2	20.4	1.3	22.7	1.6	1
2	22.7	0.9	22.2	1.0	22.4	0.5	21.1	1.1	20.7	1.3	20.1	1.1	22.5	1.5	2
3	22.3	1.0	22.4	1.4	22.1	0.4	20.9	0.9	20.2	1.2	20.1	1.1	22.5	1.5	3
4	22.9	0.9	21.9	1.0	22.3	0.4	20.7	1.0	20.0	1.2	20.0	1.1	22.4	1.4	4
5	22.6	0.7	21.6	1.6	22.1	0.5	20.3	0.8	19.6	1.5	19.7	1.4	22.3	1.5	5
6	22.6	0.7	22.0	1.3	22.1	0.7	20.1	0.8	19.2	1.2	19.6	1.4	22.3	1.4	6
7	23.2	0.8	22.3	1.3	22.4	0.7	21.8	0.6	20.3	1.1	20.2	1.2	22.8	1.5	7
8	24.1	1.1	24.1	1.5	23.0	0.9	25.0	1.4	23.1	1.8	23.2	1.1	24.2	1.9	8
9	26.1	2.1	24.6	1.7	25.7	2.1	26.1	2.8	26.0	3.1	25.6	2.6	25.5	2.7	9
10	26.6	2.5	24.6	1.8	27.0	2.8	26.7	3.2	27.1	4.5	26.4	3.1	26.0	3.2	10
11	26.8	2.8	24.9	2.8	27.0	2.8	27.3	3.8	28.0	5.2	27.1	3.4	26.3	3.5	11
Nooh	27.0	3.0	25.1	3.8	27.8	3.6	27.8	4.1	28.5	4.1	27.6	3.6	26.6	3.7	Noon
13	27.0	2.7	27.1	4.6	27.9	3.8	28.1	4.5	28.1	4.0	28.0	3.8	26.8	3.8	13
14	26.9	2.7	26.9	3.5	27.9	3.7	28.0	5.0	28.1	4.1	27.6	3.7	26.8	3.8	14
15	27.0	3.2	27.0	3.3	27.9	4.0	27.7	4.6	27.8	3.8	27.6	3.8	26.6	3.7	15
16	26.5	2.5	26.5	3.3	27.4	3.5	27.3	4.2	27.0	3.1	27.4	4.1	26.2	3.4	16
17	25.2	2.2	25.8	2.7	26.3	2.3	26.6	2.9	26.6	2.9	26.7	3.4	25.5	3.0	17
18	24.7	1.9	25.0	2.0	25.3	1.9	24.9	2.3	24.2	2.1	25.6	2.5	24.5	2.4	18
19	23.9	1.4	24.1	1.4	23.9	1.4	24.0	1.8	23.1	1.9	24.0	2.1	23.7	1.9	19
20	23.6	1.0	23.2	1.1	23.2	1.2	22.8	1.5	22.5	1.6	23.0	[illegible]	23.4	1.7	20
21	23.7	1.0	22.9	1.0	22.9	1.2	22.1	1.1	21.9	1.8	22.0	1.5	23.2	1.7	21
22	23.1	0.9	22.8	0.9	22.2	1.1	21.7	1.4	22.0	1.8	21.3	1.6	23.0	1.6	22
23	23.0	0.8	22.9	1.0	21.9	1.1	21.3	1.2	21.3	1.4	20.8	1.6	22.8	1.6	23

TABLE XII - DIRECTION AND VELOCITY OF THE WIND AT EVERY HOUR OF THE DAY AS RECORDED BY THE ROBINSON CUP ANEMOMETER DURING APRIL, 1942

The directions are given in points and the values indicate the direction from which the wind blows counting from North (0), East (8), South (16) and West (24)

The velocities are given in metres per second, using the factor 2.2
(The days on which the Normal Trade Winds are interrupted are indicated by an asterisk *)

APRIL, 1942

Hour \ Day	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Mid-night	16	3.0	14	1.8	15	2.5	11	2.7	12	2.6	11	2.3	11	2.2	11	3.1	11	1.8	08	1.4	10	1.4	01	1.2	13	2.5	14	4.1	10	4.4	10	3.7
1	18	2.9	14	2.2	13	2.4	11	2.1	11	2.2	10	2.6	11	2.2	11	2.5	11	1.6	08	1.5	10	1.2	09	1.0	13	2.4	11	4.3	10	4.6	11	4.4
2	16	2.0	15	2.8	12	2.6	11	3.6	11	1.5	11	2.0	10	2.9	11	2.6	10	1.6	08	1.8	10	1.4	11	1.4	12	2.7	12	3.5	10	3.3	11	4.2
3	18	4.0	16	2.2	13	3.1	14	4.0	11	1.8	10	2.6	10	2.6	11	2.2	10	1.1	08	1.9	10	1.2	14	1.1	12	2.4	13	2.8	08	2.3	10	4.4
4	18	3.6	15	1.6	13	2.7	12	1.8	11	3.1	10	2.4	10	2.6	11	3.2	10	1.4	08	1.5	10	1.2	14	1.9	12	3.8	10	4.1	09	2.0	10	5.8
5	16	3.0	14	2.5	13	1.6	11	2.1	10	2.3	10	2.5	11	2.6	11	3.2	10	1.5	08	2.0	10	1.1	15	1.2	11	3.1	12	5.3	08	2.6	11	5.6
6	18	4.2	16	2.3	13	1.8	11	2.7	09	2.4	11	2.7	11	2.9	10	3.0	10	2.0	06	3.0	08	1.3	15	2.1	12	3.9	12	5.1	08	3.4	10	3.9
7	17	4.2	15	2.2	13	2.2	12	2.9	09	1.9	11	3.1	10	2.7	10	2.2	10	1.2	09	2.5	08	1.4	13	0.8	11	3.8	12	4.5	12	4.7	10	4.4
8	17	2.5	16	2.7	12	3.7	11	4.0	09	3.2	11	4.7	10	5.2	10	2.3	10	2.2	09	1.6	r32	2.2	13	0.8	11	4.0	12	4.6	11	6.2	10	4.8
9	17	4.0	14	4.2	12	4.4	12	5.8	08	4.8	09	5.3	09	5.2	10	2.8	08	2.4	09	1.3	29	3.1	10	3.4	14	3.4	13	5.1	10	4.8	10	4.3
10	16	3.9	12	5.0	11	6.4	12	4.8	10	5.6	10	5.0	09	5.3	09	3.9	06	3.1	09	1.7	r17	4.4	12	4.1	13	3.4	12	5.8	11	5.5	09	5.3
11	15	4.9	13	6.4	12	7.0	12	5.7	09	5.6	12	5.3	09	4.5	09	3.5	05	3.1	09	1.3	18	2.7	12	4.3	12	4.0	12	6.2	12	5.0	09	4.4
Noon	15	4.5	13	5.2	12	6.3	11	5.3	09	5.3	11	5.5	10	4.9	11	3.1	05	2.8	09	1.0	r08	2.5	10	4.6	13	2.4	11	6.4	11	5.8	09	4.8
13	15	5.1	13	5.8	12	6.4	12	5.3	11	5.0	09	6.3	09	5.4	12	3.6	05	3.1	09	0.7	08	2.8	10	4.5	12	3.3	12	6.6	12	6.1	09	5.9
14	16	5.3	13	5.8	13	5.9	09	5.4	10	4.8	10	5.5	08	4.7	10	4.0	06	2.9	09	0.7	11	1.1	10	4.7	13	3.3	11	6.7	11	7.1	09	6.7
15	17	5.4	12	6.0	11	6.7	10	4.7	10	4.8	09	5.2	10	4.5	10	4.0	06	2.9	09	0.7	r27	1.9	12	4.7	13	2.8	12	6.7	11	6.2	09	6.6
16	17	4.9	13	6.1	11	6.2	11	5.0	11	4.0	10	4.9	12	4.0	11	4.4	06	3.1	08	2.2	24	2.7	11	4.0	13	2.8	12	5.0	10	5.5	09	6.0
17	16	4.8	13	5.7	12	5.5	12	4.4	12	2.9	10	5.4	12	3.5	10	3.5	07	2.5	08	2.7	29	1.5	12	3.6	13	3.8	11	4.4	11	5.9	09	5.[illegible]
18	15	4.4	13	4.2	12	3.2	10	3.2	11	2.7	10	3.3	11	2.5	10	2.9	07	1.8	07	1.5	31	1.3	12	4.0	12	3.0	10	4.7	07	5.8	09	4.9
19	17	3.5	14	2.4	12	2.5	11	2.8	11	3.0	11	2.0	10	3.8	10	2.0	07	1.0	08	1.3	01	0.9	12	3.0	12	3.7	10	4.4	07	3.6	09	4.6
20	17	3.3	12	2.8	11	2.3	11	2.5	11	3.1	11	2.3	10	2.8	11	2.4	07	1.3	08	1.2	01	0.7	13	3.2	12	4.8	10	5.1	08	2.5	08	5.5
21	15	3.1	15	3.2	11	2.4	13	1.1	12	2.2	10	2.9	11	2.8	11	0.8	07	1.9	03	1.4	01	0.7	13	3.0	13	4.2	12	4.7	08	3.0	09	4.4
22	15	2.0	13	2.6	11	2.2	13	2.3	12	2.9	10	3.0	11	3.3	11	1.8	07	1.9	06	1.1	01	0.7	11	2.7	12	3.8	12	5.0	08	3.2	09	4.0
23	15	4.2	15	2.5	11	2.0	11	2.6	12	2.9	10	2.3	11	2.8	11	1.5	07	1.9	10	1.1	01	0.8	12	3.3	13	3.4	11	4.5	09	5.1	09	4.0

Hour \ Day	17		18		19		20		21		22		23		24		25		26		27		28		29		30		Mean Velocity
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	
Mid-night	09	3.3	11	2.6	11	3.0	11	3.5	12	2.6	11	2.8	10	2.2	10	3.1	10	2.3	10	1.6	10	1.1	11	1.6	12	1.9	15	0.[illegible]	2.4
1	10	3.1	11	2.0	11	2.6	10	3.1	11	2.5	12	3.0	11	2.2	10	3.0	10	1.9	08	2.5	10	1.2	11	1.7	12	2.2	11	1.8	2.4
2	10	2.5	11	2.1	11	2.6	11	3.5	12	2.2	11	3.2	11	1.4	10	3.5	10	1.9	10	2.3	r01	1.1	11	1.8	12	2.1	11	2.1	2.4
3	10	2.2	11	2.7	11	2.6	10	3.1	12	2.2	11	3.2	11	3.1	10	3.1	11	1.8	10	2.9	d11	1.8	11	1.6	12	1.8	11	1.0	2.4
4	11	2.9	10	3.4	11	2.6	10	2.2	11	2.5	12	3.1	12	3.0	10	1.3	11	2.0	10	2.8	04	0.6	11	1.8	12	1.7	12	1.5	2.5
5	08	3.5	11	2.7	11	2.6	10	2.1	11	2.8	11	3.3	12	2.3	10	2.1	11	2.4	10	1.9	04	1.0	11	1.6	12	2.1	11	1.8	2.5
6	10	3.7	11	2.4	11	2.3	11	3.0	12	2.4	11	3.5	12	2.3	10	3.0	11	2.2	11	1.8	11	1.7	11	1.9	12	2.0	12	1.8	2.7
7	08	3.9	11	2.6	11	2.8	11	2.8	11	2.5	11	3.3	12	3.2	10	2.0	11	2.0	18	2.0	11	1.7	11	1.4	12	1.5	11	0.8	2.6
8	06	3.8	11	3.6	10	2.6	10	3.3	12	3.0	11	3.9	10	4.1	10	2.2	10	2.8	15	1.8	08	1.5	11	1.4	12	1.3	11	0.9	3.0
9	10	4.1	11	4.2	09	5.0	10	4.5	12	4.7	12	6.0	10	4.2	06	3.2	09	3.5	r06	3.9	10	1.5	08	1.8	12	0.6	d18	1.3	3.8
10	09	4.6	09	4.8	09	5.4	10	5.2	10	5.5	09	6.9	09	6.2	07	3.9	06	3.8	10	4.4	06	1.8	07	2.1	11	1.2	22	1.8	4.4
11	09	4.7	09	4.8	09	6.0	12	5.8	11	4.9	09	6.7	11	5.6	09	4.6	07	4.4	06	4.9	04	2.2	04	2.1	07	2.0	23	2.1	4.5
Noon	07	4.8	08	5.0	09	5.1	09	5.6	12	5.5	09	6.4	08	5.5	10	4.4	07	4.1	06	4.5	04	2.6	06	1.8	d29	2.0	24	3.0	4.5
13	09	4.6	10	4.4	09	4.8	11	6.6	10	5.3	09	5.9	10	5.3	09	4.1	05	4.0	07	4.0	04	2.4	04	2.3	27	2.6	26	2.8	4.5
14	08	4.4	08	4.4	10	4.4	12	5.9	12	5.4	10	5.6	10	5.5	09	3.8	06	3.9	06	4.2	06	2.6	04	1.8	28	3.0	25	2.8	4.4
15	09	4.5	08	4.1	12	4.4	12	5.7	10	4.9	12	5.8	10	5.6	09	3.8	06	3.5	06	3.2	02	2.2	04	1.9	24	2.8	23	2.8	4.3
16	09	4.8	11	3.8	12	4.4	13	6.2	11	4.7	11	5.2	09	5.1	08	4.0	06	3.5	06	3.9	03	2.1	05	1.2	24	2.2	25	2.5	4.1
17	09	3.9	10	3.2	10	4.2	11	4.9	11	5.0	10	4.2	10	4.7	09	3.6	05	2.0	06	2.6	03	2.0	d19	1.3	24	1.5	25	1.4	3.7
18	10	3.0	10	2.7	10	3.8	12	4.4	12	4.4	10	3.4	10	2.8	10	2.5	06	1.6	07	1.8	03	1.0	12	1.3	r11	2.0	25	0.7	3.0
19	10	2.3	10	2.1	12	3.3	12	4.9	10	3.4	11	3.0	10	2.3	10	2.3	08	1.8	07	1.3	03	0.7	12	1.2	11	1.3	25	0.9	2.5
20	10	2.8	10	3.0	11	3.1	10	4.1	11	3.8	11	3.4	10	2.8	10	2.8	08	2.6	07	1.8	03	1.8	12	1.6	10	1.7	25	1.5	2.[illegible]
21	10	2.3	11	3.4	10	3.5	11	4.1	12	4.1	11	3.1	10	2.4	10	2.7	08	1.6	09	1.7	d11	1.4	12	1.6	10	1.5	r17	1.7	2.0
22	10	2.5	11	3.3	11	3.4	11	3.1	12	3.2	10	2.1	10	3.0	10	2.3	05	1.8	09	1.4	11	1.2	12	1.8	13	1.6	16	1.5	2.5
23	10	2.9	12	2.4	11	3.4	12	4.4	11	2.2	10	2.8	10	3.0	10	2.1	10	1.7	02	1.9	11	1.8	12	2.0	15	1.8	13	1.5	2.6

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS) APRIL, 1942

Force (0 -12)				Direction															
Hour	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
3	-	-	30	-	-	-	-	2	9	15	2	1	1	-	-	-	-	-	-
9	-	2	28	-	-	-	2	8	8	7	2	1	1	-	-	-	-	1	-
15	-	8	22	-	1	1	3	6	6	9	-	1	-	-	-	2	-	1	-
21	-	-	30	1	-	1	-	5	6	14	-	3	-	-	-	-	-	-	-
Totals	-	-	-	1	1	2	5	21	29	45	4	6	2	-	-	2	-	2	-

TABLE XIVa - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY FOR APRIL, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	..	..	0.6	..	0.2	0.1	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	0.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.2	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.8	..	..	..
4	..	..	..	..	0.1	..	..	..	..	..	0.3	..	..	..	..	2.6	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..
5	..	..	..	..	0.9	..	..	..	..	..	..	..	..	..	..	6.2	0.5	..	..	..	..	..	..	..	..	..	0.1	..	..	..
6	..	0.2	..	..	3.6	..	..	..	..	6.7	..	..	..	..	0.3	0.3	1.1	..	..	..	..	..	0.3	..	0.1	..	..	..	..	..
7	..	..	..	..	0.6	..	..	..	..	0.3	..	..	..	..	1.0	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	0.1	..	..	0.3	..	..	..	..	..	2.5	..	..	..	2.5	2.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	20.0	0.2	0.7	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	11.7	..	..	..	0.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	0.1	..	..	..	..	..	..	..	..	0.1	6.3	..	..	..	2.3	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	0.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	0.2	..	..	0.1	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	0.9	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	0.2	..	..	..	..	0.9	..	..	0.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	..	..	..	..	..	..	0.3	..	..	0.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	..	..	..	..	..	..	..	..	..	..	..	0.6	..	1.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	17.8	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	0.2	..	0.3	..	..	..	..	..	..	..	..	..	..	10.0	0.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	0.3	..	..	..	..	..	..	..	0.4	..	..	0.3	0.1	4.9	..	..	..	..	..	..	0.1	..	..	0.6	..	..	..	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.7	..	..	..	..	..	..	0.2	..	..	0.1	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	13.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	3.4	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..

TABLE XIVb - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR APRIL 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	..	..	..	0.7	0.1	..	..	..	..	..	..	..	..	..	7.0	0.5	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..
2	..	..	0.5	..	0.3	..	..	..	..	..	..	..	..	..	10.2	1.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	0.5	..	..	..	..	..	..	..	..	..	0.3	..	0.3	0.9	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..
4	..	..	..	..	0.3	..	..	..	..	..	0.2	..	0.5	..	8.7	0.6	..	..	..	..	0.1	..	0.3	..	..	..	..	..	..	..
5	..	..	..	0.1	0.3	..	..	..	..	..	0.1	..	..	0.2	2.5	1.4	0.2	0.2	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	..	..	0.7	..	..	..	..	0.1	1.5	0.2	..	0.4	14.9	0.1	..	..	..	..	..	..	0.1	..	..	..	0.3	..	..	..
7	..	0.6	..	..	1.0	..	..	..	..	0.3	6.9	..	..	..	11.8	0.2	0.2	..	..	..	0.3	..	0.6	..	..	0.8	..	..	..	..
8	..	0.2	..	0.2	..	..	..	..	..	0.1	11.6	..	0.4	..	19.8	..	..	..	..	..	..	..	..	..	0.2	2.4	..	..	..	..
9	..	..	..	..	..	..	..	..	..	1.5	1.4	..	..	0.1	5.2	0.7	0.1	..	..	..	..	..	..	..	..	0.1	..	..	..	..
10	0.1	0.1	0.1	..	..	..	..	..	..	1.3	3.4	..	0.2	..	6.1	0.3	..	..	..	0.3	..	..	0.4	..	0.8	..	..	..	..	..
11	0.3	..	..	..	..	..	..	..	..	..	4.2	..	..	..	4.5	0.2	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..
12	..	1.5	..	..	..	..	..	..	..	0.1	1.8	0.5	..	0.4	0.2	0.2	0.1	..	..	0.2	..	..	..	..	..	..	..	..	..	..
13	..	1.2	..	..	..	..	..	..	..	1.3	..	0.5	..	0.8	..	1.0	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	1.0	..	0.8	..	0.2	0.3	..	..	..	..	..	..	..	..	..	0.9	..	..	..	..	..
15	..	1.0	..	..	..	..	..	..	..	1.6	..	0.1	..	..	0.1	..	..	..	..	..	..	..	..	..	0.7	..	..	..	..	..
16	0.3	..	..	..	..	..	..	..	0.2	0.6	..	..	..	..	0.1	0.4	..	..	..	..	0.2	..	..	..	....	..	..	..	..	..
17	..	..	..	..	..	..	..	..	..	0.3	..	0.1	0.1	..	0.5	..	..	..	..	..	..	..	..	..	....	..	..	..	..	..
18	..	0.3	..	..	..	..	..	..	..	..	..	..	0.3	..	2.0	0.2	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..
19	..	0.2	..	0.3	..	..	..	..	..	..	..	..	0.6	..	2.4	..	..	..	..	..	..	0.6	..	..	..	..	..	..	..	..
20	..	..	..	0.1	..	..	0.1	..	..	..	..	..	0.2	0.1	9.0	0.1	..	..	..	..	..	0.9	..	..	..	..	..	..	..	..
21	0.2	..	..	0.1	..	..	0.4	..	..	..	..	0.1	0.2	0.3	2.8	0.5	..	..	..	0.2	..	0.9	..	..	..	..	..	..	..	..
22	0.1	0.3	..	0.2	..	..	0.2	..	..	..	..	0.2	..	0.4	2.7	..	..	..	..	0.1	..	1.6	0.5	..	..	..	..	..	..	..
23	..	1.8	0.2	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	0.4	..	0.2	..	..	..	..	..	..	..	..
24	..	0.2	1.1	0.9	..	..	0.3	..	..	..	..	..	..	1.0	0.4	..	..	..	0.1	0.1	..	..	..	..	..	..	..	..	..	..

TABLE XV - TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR APRIL, 1942

RIVER SYSTEM	STATIONS	Approximate Altitude in feet	Total Fall		Normal in Inches	Number of Days
			Inches	Millimetres		
1	Mare Seche	20	5.59	142.0	5.95	10
	St Antoine	50	4.87	123.7	5.47	15
	Bel Mont	50	6.34	161.0	6.01	11
	Poudre d'Or	20	7.38	187.5	5.88	11
	Mon Loisir S.E.	300	9.98	253.5	6.79	16
	Forbach	300	6.82	173.2	5.20	8
	Couroupa	...	9.25	235.0	6.91	8
	Labourdonnais	290	9.11	231.5	6.21	8
	Mapou Water Works Office	...	8.83	224.3	...	8
	Beau Sejour	300	9.51	241.6	7.34	14
	Mont Piton	650	9.66	245.4	7.37	12
	Mon Choix	700	11.06	280.9	6.74	10
	Antoihette	640	13.56	344.4	7.40	16
	Mon Songe	620	14.60	370.8	7.72	15
	Botanical Gardens	325	7.46	189.4	6.18	16
	The Observatory	179	6.45	163.9	5.12	19
	Solitude	175	6.03	153.2	4.11	8
	St Andre (Cour)	90	...	...	5.30	..
	La Nicoliere	...	13.88	352.6	12.08	23
	California	...	14.55	369.5	...	12
	Australia	...	15.13	384.3	...	18
2 & 3	Union Regnard Flacq S.E.	600	16.59	421.4	8.77	15
	Constance d'Arifat	100	7.12	180.8	7.69	14
	Rich Fund	600	12.27	311.7	9.64	22
	La Joffrette	...	12.13	308.1	...	15
	Belle Vue Allendy	...	8.08	205.2	9.30	15
4	Sans Souci	900	26.91	683.5	15.21	22
	Beau Champ G.R.S.E.	20	12.92	328.2	7.55	18
	Olivia	400	21.21	538.7	10.96	17
	Trois Ilots	...	...	...	...	..
	Belle Rive	400	22.95	582.9	14.19	21
	Sebastopol	700	...	...	...	..
	Bonne Veine	400	18.78	477.0	15.09	21
5	Rose Belle	850	19.31	490.5	15.40	26
	New Grove	650	17.68	372.9	15.12	25
	Mon Tresor	...	30.24	768.1	...	17
	Mon Desert Carie	75	9.49	241.0	6.77	17
	Ferney	20	22.00	558.8	9.90	19
	Sauveterre	...	10.69	271.5	...	18
	Tivoli	1300	22.35	567.7	15.08	24
	La Flora	1050	20.50	393.7	16.37	25
	Riche Bois Britannia	650	14.17	359.9	12.15	21
6	Britannia S.E.	700	15.16	385.1	11.61	26
	Savannah Mill	200	12.27	311.7	8.19	20
	St Aubin	300	11.92	302.8	9.00	22
	St Avold	900	18.67	474.2	12.84	26
	Colmar	400	16.89	429.0	10.42	24
	Union S.E.	...	14.88	378.0	8.55	17
	Fontenelle	320	12.69	322.3	9.29	18
	Choisy	200	16.30	414.0	6.70	11
	Beau Bois	...	23.91	607.3	...	23
	Bel Air	...	19.31	490.5	...	10
	St Felix	...	21.70	551.2	...	10
7,8,9 & 10	Bel Ombre	40	18.30	464.8	6.61	16
	Beau Champ (B. du Cap)	70	16.50	419.1	7.65	17
	Frederica	...	19.97	507.2	7.04	16
	Pierrefonds	...	6.00	152.4	6.08	10
	Ste. Marie	...	16.48	478.6	...	17
	Hussonnia	...	...	...	...	..
11	Curepipe Gardens	1840	18.30	464.8	11.76	22
	Mare aux Vacoas (G.End)	1850	23.46	595.9	16.19	23
	Mare aux Vacoas Arnaud	1830	30.16	766.1	14.93	27
	La Marie Filter Beds	1700	19.42	493.3	9.55	22
	Sophie	...	...	...	...	..
	Reunion	1420	10.95	278.1	7.85	17
	Aerological Station	1393	9.33	236.9	10.30	24
	Phoenix	...	10.11	256.8	...	8
	Quatre Bornes	...	5.24	133.1	...	9
12	Quatre Bornes Board	1090	1.16	29.5	...	2
	Le Reduit Dept. of Agric.	1000	4.88	124.1	4.85	24
	Alma	1460	15.42	391.7	12.95	18
	Bagatelle	1250	12.51	317.8	7.33	15
	Highlands	1300	10.46	265.7	8.64	15
	Trianon	950	6.24	158.5	5.70	13
	Val Ory	1100	...	...	5.80	..
	Bassin	...	6.28	159.5	7.30	6
	Hermitage	1450	13.63	346.2	13.25	16
	Ebene	...	6.15	156.2	...	15
	Bega	...	5.18	131.6	...	15
	Mon Reve	...	9.21	233.9	...	13
	Mont Pevril	...	5.99	152.1	...	15
	Minisssy	1150	8.59	218.2	5.30	12
	Plaisance	...	11.61	294.9	...	16
	La Ferme	350	3.83	97.5	4.75	9
13	Line Barracks	...	4.16	105.6	...	15
	Richelieu Tobacco Res. Stn.	...	3.28	83.3	...	9

TABLE XVI - PILOT BALLOON OBSERVATIONS FOR THE MONTH OF APRIL, 1942

Date	Time	Surface		250 metres		500 metres		750 metres		1,000 metres		1,500 metres		2,000 metres		2,500 metres		3,000 metres		3,500 metres		4,000 metres	
		Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity
		°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.
1	09.14	190	8.5	200	7.6	200	6.7	190	9.8	180	7.2	..	..	..	..	..	..	..	..	..	..	..	...
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...
3	08.41	140	3.1	150	6.3	150	8.9	140	8.9	130	9.4	..	..	..	..	..	..	..	..	..	..	..	..
4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	09.01	110	7.6	100	7.6	100	13.4	090	15.7	100	10.7	..	..	..	..	..	..	..	..	..	..	..	..
6	08.54	100	7.6	110	3.6	110	3.1	100	6.[illegible]	120	[illegible]	..	..	..	..	..	..	..	..	..	..	..	..
7	09.32	090	6.7	090	5.8	080	5.8	080	[illegible].8	090	11.6	..	..	..	..	..	..	..	..	..	..	..	..
8	09.17	070	2.7	080	5.8	080	4.1	080	6.3	080	7.6	..	..	..	..	..	..	..	..	..	..	..	..
9	09.21	090	4.9	080	2.2	080	4.1	070	4.5	050	4.5	..	..	..	..	..	..	..	..	..	..	..	..
10	09.32	100	3.1	080	5.8	060	5.8	050	6.7	050	7.2	..	..	..	..	..	..	..	..	..	..	..	..
11	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	10.04	110	3.6	140	1.8	150	3.6	120	4.9	110	5.4	..	..	..	..	..	..	..	..	..	..	..	..
13	09.21	110	4.5	120	4.5	130	4.9	130	6.3	110	6.7	..	..	..	..	..	..	..	..	..	..	..	..
14	09.22	120	17.9	120	4.5.	120	12.1	120	21.5	120	20.6	..	..	..	..	..	..	..	..	..	..	..	...
15	10.04	100	11.2	110	4.9	130	3.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	09.22	090	7.6	110	15.7	100	12.5	090	6.3	090	10.3	..	..	..	..	..	..	..	..	..	..	..	..
17	09.34	090	10.7	090	17.0	090	9.4	070	5.8	080	8.1	..	..	..	..	..	..	..	..	..	..	..	..
18	09.04	090	6.7	110	4.5	110	4.5	100	6.3	090	9.8	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	09.28	100	4.5	110	5.8	110	3.6	120	7.6	110	9.8	..	..	..	..	..	..	..	..	..	..	..	..
21	09.15	080	3.6	110	2.7	120	5.8	120	6.7	110	7.2	..	..	..	..	..	..	..	..	..	..	..	..
22	09.30	060	2.7	090	1.8	100	4.5	110	8.1	110	5.4	..	..	..	..	..	..	..	..	..	..	..	..
23	09.07	110	11.2	090	6.7	090	8.1	090	12.1	090	13.9	..	..	..	..	..	..	..	..	..	..	..	..
24	09.17	070	3.1	080	4.1	080	4.5	090	4.9	090	4.5	..	..	..	..	..	..	..	..	..	..	..	..
25	09.07	090	3.6	070	4.9	070	7.2	070	8.9	060	6.3	..	..	..	..	..	..	..	..	..	..	..	..
26	09.45	060	5.8	070	5.4	070	9.4	060	9.4	060	7.2	..	..	..	..	..	..	..	..	..	..	..	..
27	09.20	080	3.6	060	3.6	050	5.4	040	4.9	030	4.5	..	..	..	..	..	..	..	..	..	..	..	..
28	09.36	060	2.7	060	3.6	080	3.1	080	1.8	070	2.2	..	..	..	..	..	..	..	..	..	..	..	..
29	09.04	250	1.3	010	0.5	120	0.9	120	2.2	130	4.1	..	..	..	..	..	..	..	..	..	..	..	..
30	09.36	270	3.6	260	1.8	170	1.3	120	3.1	100	3.6	..	..	..	..	..	..	..	..	..	...	..	..

MAURITIUS

ROYAL ALFRED OBSERVATORY

LATITUDE 20°51' 39"S. - LONGITUDE 3h50m 12.6"

RESULTS OF MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

MAY, 1942

N.R. Mc CURDY, B.Sc. F.R. MET.SOC.

DIRECTOR

PUBLISHED IN 1965 BY

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TABLE I - RESULTS OF MAGNETICAL OBSERVATIONS MADE DURING THE MONTH OF MAY, 1942

Month and Day 1942	Mean Declination (West)	Mean Horizontal Force (C.G.S. Units)	Mean Vertical Force (C.G.S. Units)	Daily Range + Declination	Daily Range + Horizontal Force (Unit γ)	Daily Range + Vertical Force (Unit γ)
APR.						
1	14° 18'.9	.22431	.29964	5.2	108	23
2	18.9	408	965	5.2	62	20
3	18.6	420	964	7.3	38	22
4	19.0	425	962	6.3	63	20
5	18.5	405	968	6.5	52	11
6	18.6	419	968	5.5	26	20
7	19.7	428	965	6.6	24	18
8	19.0	437	958	7.6	17	32
9	19.3	439	...	6.5	30	..
10	18.9	437	...	8.4	11	..
11	19.0	443	959	6.0	36	25
12	19.0	435	959	7.0	39	26
13	19.1	429	961	6.5	16	19
14	19.2	418	961	7.5	87	23
15	19.1	421	965	6.0	31	19
16	19.7	427	962	5.8	39	21
17	19.4	430	960	5.0	35	26
18	19.2	438	....	4.5	37	..
19	19.4	438	...	5.0	26	..
20	19.1	452	963	7.7	51	21
21	19.1	444	962	4.7	25	16
22	19.6	433	963	6.0	67	22
23	19.6	425	969	5.2	49	16
24	19.4	432	964	7.2	34	27
25	[illegible]	435	965	7.8	24	27
26	[illegible]	437	964	8.0	26	18
27	19.8	443	964	3.7	92	31
28	19.3	421	965	4.7	49	28
29	19.2	431	967	4.8	23	20
30	19.7	434	969	5.5	30	17
31	20.0	435	970	4.6	21	11
Mean	14° 19'.23	.22431	.29964	6.07	40.9	21.4

Description of the Principal Magnetic Disturbances

Horizontal Force : 1st & 2nd - slightly disturbed. 4th 11h Commencement of short-lived and very moderate disturbance ending at 6h on 5th; the period most disturbed extends from 4th 18h to 5th 6h. Small pulsations superposed on wavelike features (25 γ to 30 γ). 11th slightly disturbed during first half mainly small irregular pulsations. 14th - very moderately disturbed. Very gradual increase in force until 9h followed by irregular decrease. Trace is quiet after 14h. Absolute amplitude (87 γ). 20th 14h to 21st 3h : slightly disturbed. 22nd & 23rd slightly disturbed in parts. 27th very moderately disturbed during second half. 28th slightly disturbed throughout. 29th very slightly disturbed during first hours.

T = .37428 : Mean Dip = 53° 10'.90 ; X = .21734 ; Y = -.05548 ; Z = .29964

The daily range is the difference between the greatest and least hourly values

TABLE II - RESULTS OF ABSOLUTE DETERMINATIONS OF THE MAGNETIC ELEMENTS DURING THE MONTH OF MAY, 1942

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d. h. m.	° '	d. h. m.		d. h. m.	° '	
5.13. 55	14.17.6	4. 9.31	.22447	5.14.08	53.15.37	.29970
12.12. 14	14.18.5	7. 9.56	.22441	12.12.26	53.08.07	.29943
22.14.23	14.16.8	14.11.41	.22417	22.14.34	53.09.62	.29951
29.12.36	14.19.8	16.11.25	.22401	29.12.44	53.10.25	.29961
		18.12.37	.22398			
		23.10.56	.22474			
		27.11.12	.22456			

TABLE III - MAGNETIC DECLINATION (WEST) AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

M. A. Y. 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
	14° +																
Midnight	19.5	18.7	19.6	19.0	21.5	19.3	19.5	19.3	19.5	19.3	19.3	19.5	19.5	19.0	19.0	19.5	Midnight
1	19.0	19.0	19.5	19.0	21.0	19.3	19.5	19.3	19.5	18.5	19.0	19.7	19.5	19.3	19.3	19.7	1
2	19.0	18.5	19.0	18.0	20.0	17.5	19.5	19.0	19.5	19.3	18.7	19.5	19.5	19.5	19.3	20.0	2
3	18.3	18.7	18.0	18.5	20.3	18.5	19.3	19.0	19.5	19.0	19.0	19.5	19.7	19.7	19.5	20.0	3
4	18.7	18.7	18.0	18.7	19.3	18.0	19.3	18.7	19.0	19.0	18.5	19.3	19.5	19.5	19.3	19.7	4
5	18.0	19.0	17.5	19.0	15.0	18.5	19.0	18.5	18.7	18.5	18.5	19.3	19.5	19.3	19.5	19.7	5
6	16.5	18.5	18.0	19.0	15.3	18.3	19.0	19.0	18.5	18.3	18.5	19.0	19.3	19.0	19.3	19.5	6
7	17.0	18.0	18.0	18.0	15.5	17.5	19.0	18.7	18.3	18.0	18.0	18.0	19.0	19.3	19.0	19.0	7
8	19.7	18.7	19.0	19.3	17.0	19.0	20.5	20.0	20.0	20.0	17.3	19.7	20.5	21.5	19.5	20.0	8
9	21.5	21.3	21.5	22.0	17.5	21.0	22.5	22.0	22.5	22.5	22.0	22.0	22.0	22.5	21.0	22.0	9
10	21.7	21.5	22.0	22.0	19.0	20.7	23.3	23.3	23.0	23.7	23.0	23.0	22.0	23.0	21.7	23.3	10
11	20.7	19.0	20.0	20.0	18.5	21.0	22.5	21.0	21.7	21.5	22.0	20.7	20.0	19.5	20.0	22.0	11
Noon	17.0	16.5	17.7	18.0	17.5	18.3	21.3	19.0	20.0	19.0	20.0	19.0	18.5	19.0	17.5	20.0	Noon
13	17.7	16.3	16.5	17.7	17.7	17.0	20.0	17.5	19.0	17.0	19.0	17.5	18.0	17.0	16.0	18.5	13
14	18.5	17.0	15.3	17.3	17.5	16.0	19.0	16.5	18.0	15.5	17.5	16.0	17.0	15.0	15.7	18.0	14
15	18.7	18.3	14.7	16.5	17.0	15.5	17.5	15.7	17.0	15.3	17.0	16.0	15.5	15.5	16.5	17.7	15
16	17.7	16.5	16.0	15.7	17.7	16.0	16.7	15.7	16.5	15.7	17.0	16.0	16.0	16.0	17.5	17.5	16
17	18.3	18.3	18.5	17.5	19.0	18.0	18.0	17.5	17.5	17.5	18.0	18.0	18.0	18.5	19.0	18.5	17
18	19.7	19.7	19.5	19.0	19.7	19.0	18.7	18.5	18.7	19.0	18.7	19.0	19.0	19.7	19.7	19.7	18
19	20.0	21.5	20.0	19.8	20.0	19.5	19.3	19.3	19.3	19.3	19.0	19.3	19.3	20.0	20.0	19.7	19
20	19.7	20.0	20.0	20.7	20.0	19.7	19.5	19.3	19.3	19.5	19.0	19.3	19.5	20.0	20.0	19.7	20
21	19.7	20.7	19.7	21.0	20.0	20.0	19.7	19.5	19.5	19.3	19.0	19.5	19.5	19.7	20.0	19.5	21
22	19.5	20.0	19.0	20.5	19.7	19.7	19.7	19.5	19.3	19.0	19.3	19.0	19.3	19.7	19.5	19.5	22
23	19.0	19.5	19.0	19.7	19.5	19.5	19.7	19.5	19.5	19.0	19.5	19.3	19.0	19.5	19.0	19.5	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
	14° +																
Midnight	19.5	19.5	19.5	19.0	19.5	19.7	20.2	19.7	20.0	19.7	19.7	19.5	20.0	19.5	19.5	19.5	Midnight
1	19.3	19.7	19.3	19.3	19.7	19.7	21.0	19.5	20.0	20.0	20.0	20.5	19.7	19.7	19.3	19.6	1
2	19.3	19.5	18.5	19.3	20.0	19.5	20.0	19.5	20.0	20.0	19.5	20.0	20.0	19.7	19.7	19.4	2
3	19.5	19.5	19.3	19.3	19.5	19.5	20.0	19.5	19.7	19.7	19.5	18.0	19.0	19.7	19.7	19.3	3
4	19.3	19.3	19.5	19.0	19.5	19.5	20.0	19.5	19.5	19.5	19.3	18.5	19.5	19.7	19.7	19.2	4
5	19.0	18.5	19.5	19.3	19.5	19.7	19.7	19.5	19.5	19.3	19.0	18.5	19.5	19.5	19.7	18.9	5
6	19.3	17.5	19.0	19.0	19.5	19.5	19.5	19.5	19.0	19.0	18.7	18.0	19.0	17.5	19.5	18.7	6
7	19.3	17.0	18.5	18.5	17.7	19.5	19.0	18.0	18.0	18.0	18.7	17.0	17.5	17.0	17.7	18.1	7
8	20.0	18.5	19.7	20.0	19.3	20.0	19.0	19.0	20.0	19.0	18.0	17.3	17.5	17.0	18.0	19.2	8
9	22.3	20.5	21.7	22.0	20.5	22.0	20.5	21.0	22.0	21.5	20.0	18.0	18.0	19.0	20.5	21.1	9
10	21.7	21.3	21.5	23.0	20.7	23.0	21.7	22.5	23.5	23.5	21.0	19.0	19.5	20.5	21.7	21.9	10
11	20.0	21.5	21.0	20.0	20.0	21.0	21.5	22.0	22.5	23.0	21.8	20.5	21.5	22.0	22.3	21.0	11
Noon	19.3	20.0	20.0	17.0	19.0	19.0	20.3	21.0	20.3	21.0	21.5	21.7	20.5	22.5	22.0	19.5	Noon
13	18.5	19.0	19.0	15.7	17.5	18.0	19.0	19.0	18.5	18.5	20.5	21.0	19.0	22.5	21.0	18.4	13
14	18.0	18.0	17.0	15.3	16.3	17.5	18.0	17.0	16.5	16.0	19.5	18.5	17.5	21.0	19.5	17.3	14
15	17.5	17.3	16.7	16.0	17.0	17.0	15.3	15.7	15.5	18.5	17.5	16.7	19.5	16.0	19.3	16.8	15
16	17.3	17.7	17.5	17.0	16.5	17.5	16.5	15.5	16.5	16.0	18.0	17.7	18.7	19.0	17.7	16.9	16
17	18.7	19.0	18.7	18.5	18.0	18.0	18.5	18.0	18.7	18.0	19.5	19.5	19.5	19.5	20.0	18.5	17
18	19.5	19.7	19.7	19.7	19.0	19.3	19.5	19.3	19.0	20.7	20.0	19.7	20.0	19.0	20.5	19.4	18
19	19.7	20.0	20.2	20.3	20.3	19.7	20.0	19.7	20.0	19.7	20.5	21.0	20.0	20.0	20.7	19.9	19
20	20.0	19.3	20.0	20.5	19.7	19.7	20.3	20.0	20.0	19.7	20.7	20:3	20.0	20.0	20.3	19.9	20
21	19.7	19.7	20.0	20.3	20.3	20.0	20.3	20.0	20.0	20.0	20.5	20.3	19.7	19.7	20.0	19.8	21
22	20.0	19.5	19.7	20.0	20.0	20.0	20.0	20.0	20.0	20.0	21.0	20.3	19.5	19.5	19.7	19.7	22
23	20.0	19.5	19.7	19.7	20.0	21.0	20.0	20.3	20.0	20.0	19.5	20.3	19.7	19.3	19.7	19.6	23

TABLE IV - MAGNETIC HORIZONTAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED RROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature in the Magnet Chamber)

MAY, 1942

.22000 + (C.G.S. UNIT)

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	400	405	399	415	392	404	422	430	436	432	439	429	421	432	401	411	Midnight
1	485	411	407	418	395	407	423	432	441	433	449	430	421	435	406	417	1
2	483	414	405	424	401	425	423	434	441	435	452	431	422	437	412	414	2
3	475	416	415	435	400	423	424	433	441	437	453	423	423	441	415	420	3
4	475	418	417	433	402	421	427	434	442	439	442	435	425	441	419	419	4
5	472	421	417	433	425	424	429	438	443	440	450	436	425	450	423	421	5
6	463	423	420	434	440	425	433	440	445	440	449	435	428	453	427	424	6
7	460	425	425	437	432	430	438	439	450	442	455	439	430	463	428	429	7
8	463	429	430	435	425	428	441	443	454	443	461	440	431	469	431	433	8
9	455	435	432	438	423	425	434	447	452	440	463	439	435	457	432	438	9
10	460	430	425	445	413	423	433	445	449	437	460	447	437	423	431	443	10
11	470	427	437	448	407	429	433	443	448	435	450	456	437	425	430	450	11
Noon	410	435	435	442	406	423	431	447	449	436	445	455	437	415	431	444	Noon
13	405	432	428	430	395	417	425	443	441	435	441	449	432	392	427	435	13
14	406	417	425	423	380	415	421	437	432	433	444	445	433	391	422	431	14
17	377	391	435	425	387	407	417	430	425	435	428	435	429	393	417	416	15
16	377	391	415	425	387	407	417	430	425	435	428	435	429	393	417	416	16
17	391	385	419	429	394	413	422	430	426	432	427	433	429	387	417	418	17
18	400	383	421	431	400	415	429	433	432	433	430	432	427	386	419	425	18
19	397	373	419	423	403	416	428	435	431	435	432	429	425	382	418	430	19
20	398	375	417	400	405	417	427	435	433	438	431	429	427	387	415	430	20
21	400	373	415	385	402	412	425	436	431	439	429	422	431	393	417	423	21
22	402	380	415	394	401	416	430	437	432	441	428	417	432	395	418	418	22
23	403	390	418	400	404	420	431	437	432	440	440	417	432	400	413	420	23

.22000 + (C.G.S. UNIT)

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day / Hour
Midnight	425	422	428	432	442	435	395	426	431	433	437	432	418	427	429	422	Midnight
1	423	422	430	433	439	433	392	417	429	432	439	419	427	426	435	426	1
2	425	423	433	434	437	430	400	421	423	433	439	421	423	429	431	428	2
3	423	425	438	435	448	435	405	422	430	433	441	435	435	431	432	431	3
4	424	431	440	440	449	434	411	425	435	434	444	432	431	433	432	432	4
5	427	435	440	445	447	436	420	430	437	438	445	432	429	435	433	435	5
6	432	443	440	450	438	439	425	432	439	441	447	435	431	439	432	437	6
7	434	451	443	458	450	449	420	441	442	450	455	440	432	445	437	441	7
8	439	457	447	459	456	450	435	445	443	453	463	449	436	450	441	444	8
9	445	455	450	462	453	452	439	445	441	452	470	435	435	452	442	444	9
10	452	450	452	465	460	440	448	442	451	475	421	439	453	447	443	442	10
11	449	453	449	470	451	450	441	451	422	445	478	420	439	450	450	444	11
Noon	441	459	448	473	453	434	441	447	447	441	479	417	440	444	443	440	Noon
13	435	455	452	472	453	442	440	435	440	437	473	415	437	435	442	435	13
14	429	440	453	470	455	439	455	439	436	430	432	435	470	436	440	432	14
15	428	435	440	460	450	437	430	430	431	430	433	410	437	428	435	425	15
16	428	434	433	452	445	433	427	429	428	427	415	404	428	423	432	421	16
17	429	433	427	448	443	429	427	431	427	428	419	400	424	425	433	422	17
18	429	435	427	452	440	432	428	431	431	431	420	411	427	430	432	424	18
19	429	433	430	460	430	432	427	427	431	432	417	412	426	427	430	430	19
20	423	432	429	458	431	426	427	421	432	432	447	417	425	424	429	423	20
21	422	431	430	451	432	413	429	428	433	432	387	411	425	425	431	420	21
22	417	429	430	435	435	403	428	429	433	441	402	411	426	426	430	420	22
23	423	428	433	440	435	393	426	425	434	435	412	426	426	423	431	422	23

TABLE V - MAGNETIC VERTICAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature in the Magnet Chamber)

MAY, 1942

29000 + (C.G.S. UNIT)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	967	967	970	969	971	970	970	966	963		962	963	965	962	967	969	Midnight
1	962	965	967	967	968	970	970	964	962		961	962	963	961	965	965	1
2	962	963	966	963	969	968	969	964	962		960	963	962	961	964	964	2
3	961	962	965	962	966	967	968	965	962		961	962	963	960	963	963	3
4	961	963	963	963	964	966	967	964	962		961	962	964	961	963	963	4
5	961	963	964	963	961	965	966	963	963		961	963	964	961	964	964	5
6	961	963	965	963	960	965	965	964	962		961	963	965	960	964	965	6
7	964	964	965	964	960	964	965	963	961		961	963	964	961	965	964	7
8	973	969	971	970	966	971	969	966	966		964	967	970	964	970	968	8
9	974	971	973	971	967	978	973	967	965		969	966	970	963	973	971	9
10	969	969	970	965	969	981	970	963		967	967	960	966	961	972	970	10
11	957	961	959	955	969	973	962	950		959	958	947	959	952	961	960	11
Noon	951	955	951	951	969	963	955	935		950	951	941	951	950	954	950	Noon
13	958	953	951	953	967	960	957	936		945	948	945	951	948	957	950	13
14	959	953	954	954	971	962	958	941		945	944	945	951	950	956	951	14
15	959	957	953	951	971	961	958	945		951	945	946	951	951	957	951	15
16	958	959	957	951	960	965	960	948		958	952	951	953	957	962	953	16
17	959	962	963	956	971	967	962	955		963	959	960	961	963	965	960	17
18	965	968	966	960	971	968	965	961		967	963	962	963	969	968	963	18
19	968	972	967	961	967	968	966	962		967	963	963	964	970	969	965	19
20	969	971	967	965	971	968	966	963		965	962	964	965	971	969	966	20
21	970	973	969	970	970	969	966	963		964	963	965	965	970	969	967	21
22	970	973	969	971	970	969	966	963		962	963	965	963	970	968	967	22
23	969	971	969	965	970	969	965	963		962	963	966	963	968	966	969	23

29000 + (C.G.S. UNIT)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
Midnight	965	966		966	964	968	976	970	968	965	967	966	970	970	971	968	Midnight
1	965	965		965	964	968	973	970	968	965	967	969	969	970	968	966	1
2	963	964		964	965	967	973	970	969	965	967	969	969	969	969	966	2
3	963	963		963	963	967	972	970	969	965	967	965	968	969	968	965	3
4	963	962		963	962	966	971	969	970	966	968	967	969	969	968	965	4
5	963	962		963	961	966	970	969	967	966	967	967	970	969	969	965	5
6	964	961		962	962	966	969	969	967	966	967	968	970	969	970	965	6
7	964	960		961	960	964	966	965	963	965	965	965	967	967	967	964	7
8	969	963		967	961	965	971	967	969	964	971	967	969	971	970	968	8
9	970	964		971	963	961	977	971	971	967	975	966	970	973	971	970	9
10	962	968		967	959	973	970	973	970	967	967	970	976	974	968	968	10
11	952	967	960	955	959	953	971	961	966	962	961	964	966	972	975	961	11
Noon	947		959	950	959	954	966	953	955	953	954	963	962	969	973	955	Noon
13	945		955	950	956	951	964	944	948	954	950	956	957	965	970	953	13
14	946		948	958	954	951	963	946	953	948	950	953	946	962	966	953	14
15	944		951	961	953	954	960	949	950	952	944	949	953	959	964	954	15
16	951		956	963	955	959	962	954	957	951	956	961	957	961	964	957	16
17	959		962	966	960	962	969	963	966	964	960	965	969	963	969	963	17
18	961		964	967	963	967	971	967	969	968	966	971	972	969	971	966	18
19	963		966	966	966	967	971	967	969	969	969	973	973	970	971	967	19
20	965		966	965	967	967	971	969	968	969	972	973	969	971	971	968	20
21	966		967	964	968	969	970	969	968	967	971	972	972	972	971	968	21
22	967		967	966	968	971	970	968	967	967	972	971	971	971	971	968	22
23	967		967	965	969	973	970	969	966	967	969	971	971	971	971	968	23

TABLE VI - RESULTS OF METEOROLOGICAL OBSERVATIONS MADE AT THE AEROLOGICAL STATION, VACOAS (424.5 metres above mean sea level) DURING THE MONTH OF MAY, 1942

Month and Day 1942	Observations at 10 a.m.									Temperature of the Air							Rainfall			
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat. = 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0 - 10)	3h	9h	15h	21h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Casella Pluviograph	Duration	Duration of Bright Sunshine	Percentage of Possible Sunshine
MAY	mbs	°C	°C	°C	%	mbs	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms	mins	hrs	%
1	968.6	23.0	2.2	19.6	81	22.8	130	2.7	7	18.5	22.0	22.8	18.6	24.5	18.2	6.[illegible]	0.3	5	10.4	92
2	970.5	22.3	3.7	16.2	68	18.4	110	2.9	8	18.1	21.9	22.3	18.2	24.6	17.8	6.8	...	..	[illegible]	59
3	970.1	22.6	2.7	18.3	77	21.0	105	4.7	4	18.2	22.3	22.2	19.1	24.6	18.5	6.1	4.0	120	[illegible]	92
4	970.5	22.7	3.1	17.8	74	20.4	115	5.8	4	19.1	21.9	23.7	19.0	24.3	19.1	5.2	0.2	10	[illegible]	92
5	969.5	22.7	2.5	18.8	79	21.7	120	3.1	7	18.5	22.1	23.0	20.4	25.1	18.5	6.6	0.3	5	[illegible]	[illegible]
6	968.2	23.7	2.5	19.8	79	23.1	[illegible]	2.4	7	20.2	22.8	23.8	20.6	25.5	19.9	5.6	0.3	25	[illegible]	[illegible]
7	967.4	23.2	1.9	20.3	84	23.8	95	1.8	8	19.9	23.1	23.0	20.8	25.3	19.4	5.9	2.2	85	2.7	24
8	968.0	24.0	2.9	19.4	76	22.5	110	2.7	7	19.8	23.3	24.7	21.0	26.9	19.1	7.8	...	...	7.6	68
9	969.0	23.3	2.2	19.9	81	23.2	70	5.4	8	20.5	23.0	23.6	21.1	25.6	20.0	5.6	...	...	[illegible]	59
10	968.[illegible]	23.1	1.3	21.1	88	25.0	7[illegible]	4.5	7	20.5	22.8	24.2	21.4	26.2	20.4	5.8	0.8	40	[illegible]	44
11	967.[illegible]	[illegible]	2.2	21.2	82	25.2	290	0.9	8	20.9	23.8	23.7	20.8	26.9	20.8	6.1	5.4	250	2.8	25
12	96[illegible]	[illegible]	2.0	20.7	83	24.4	75	3.6	8	20.6	23.1	24.9	21 3	26.2	20.4	5.8	0.4	15	4.9	44
13	967.[illegible]	[illegible]	1.2	21.1	90	25.0	90	4.0	7	21.2	21.8	20.5	20.3	26.7	20.6	6.1	5.3	40	9.8	88
14	967.6	[illegible]	1.0	19.1	91	22.1	140	8.1	8	19.8	20.3	21.6	16.8	22.3	19.2	3.1	5.4	65	5.2	47
15	967.[illegible]	21.1	4.0	14.3	65	16.3	145	6.3	5	16.0	20.4	20.9	17.2	22.4	14.8	7.6	...	..	10.6	96
16	966.[illegible]	20.5	4.9	11.7	57	13.7	125	3.6	6	16.6	20.3	20.5	17.9	22.6	16.1	6.5	0.1	10	[illegible]	58
17	967.9	20.2	3.7	13.8	67	15.8	130	4.5	9	15.4	19.5	20.8	17.1	22.8	14.9	7.9	0.2	5	3.3	30
18	968.3	20.8	3.7	14.6	68	16.6	135	0.7	7	16.1	20.2	21.2	16.3	24.1	15.9	8.2	...	..	7.2	65
19	968.1	18.7	1.7	15.9	84	18.1	140	8.9	7	16.6	17.9	19.3	15.7	20.5	15.7	4.8	9.9	285	9.2	83
20	970.9	18.7	4.0	11.7	64	13.7	135	4.7	8	15.5	18.2	19.4	16.0	20.3	15.5	4.8	...	..	4.6	42
21	971.0	19.1	2.9	14.2	73	16.2	140	1.6	9	15.8	18.4	18.9	16.3	22.2	15.8	6.4	0.9	25	3.6	33
22	971.5	20.3	2.2	16.7	80	19.0	120	4.5	7	16.2	19.7	19.4	17.4	22.2	16.0	6.2	0.2	5	7.6	69
23	972.6	20.1	1.7	17.3	84	19.8	125	6.7	9	17.3	19.6	20.2	18.3	22.3	17.3	5.0	0.5	70	3.2	30
24	972.7	20.3	2.8	15.6	75	17.7	110	9.0	2	17.3	19.7	20.9	17.9	22.0	16.3	5.7	0.9	60	10.1	92
25	972.8	19.0	0.9	17.5	91	20.0	120	8.1	9	17.9	18.5	18.9	18.0	20.9	17.6	3.3	23.3	600	1.8	17
26	973.2	20.8	2.3	17.0	79	19.4	105	8.3	5	17.8	20.0	19.3	17.8	21.7	17.4	4.3	5.8	155	8.0	73
27	974.2	20.9	4.5	13.1	61	15.1	90	7.0	3	17.4	20.6	21.6	18.5	23.0	17.0	6.0	[illegible]	10	9.5	87
28	973.8	21.2	3.0	16.3	74	18.5	70	7.6	1	17.5	20.7	22.3	18.4	23.2	17.1	6.1	0.8	10	9.2	84
29	972.1	21.2	3.0	16.3	74	18.5	80	7.8	3	18.3	21.0	21.5	19.3	23.1	17.8	5.3	...	..	9.7	89
30	972.3	21.6	2.8	17.1	76	19.5	90	6.7	3	19.1	21.1	22.4	19.4	23.3	17.9	5.4	2.2	65	10.0	91
31	973.3	20.5	1.6	18.0	86	20.6	100	4.9	8	18.8	20.3	21.1	19.0	22.9	18.3	4.6	6.8	140	8.3	56
Mean	970.0	21.5	2.0	17.2	77.1	19.9	...	5.0	6.4	18.2	21.0	21.7	18.7	23.6	17.8	5.8	76.5	2100	6.79	61.3
Average	969.2	21.6	2.1	18.2	81.0	20.9	...	4.2	5.5	...	...	...	...	23.6	17.5	6.1	189.0	...	7.09	63.8
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

EXCESS OF CERTAIN ELEMENTS AT PAMPLEMOUSSES OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	+ 42.0 mbs	Amount of Rain	- 59.0 mms
Temperature of the Air	+ 3.4 °C	Duration of Sunshine	+ 26.0 hrs
Vapour Pressure	+ 1.1 mbs	Mean of Maximum Temperatures	+ 2.7 °C
Relative Humidity	- 10.4 %	Mean of Minimum Temperatures	+ 1.8 °C
Velocity of Wind	- 0.4 m.p.s.	Absolute Maximum Temperature	+ 1.3 °C
Amount of Cloud	- 0.6 ..	Absolute Minimum Temperature	+ 1.5 °C
Greatest Rainfall Intensity	1.5 mms in 2 mins		

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF MAY, 1942

Month and Day 1942	Atmospheric Pressure: Mean	Atmospheric Pressure: Excess above Average	Temperature of the Air: Daily Maximum	Temperature of the Air: Daily Minimum	Temperature of the Air: Daily Range	Temperature of the Air: Mean	Temperature of the Air: Excess above Average	Excess of Air Temp. over Evaporation Temperature	Temperature of the Dew Point: Mean	Temperature of the Dew Point: Excess above Average	Relative Humidity (Sat. = 100): Mean	Relative Humidity (Sat. = 100): Excess above Average	Vapour Pressure	Minimum on the grass	Rainfall: Amount recorded by Dines Pluviograph	Rainfall: Duration	Amount of Evaporation	Mean Amount of Cloud (Scale 0-10)
MAY	mbs	mbs	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C	mms	min	mms	
1	1009.5	+ 0.9	26.7	19.8	6.9	22.7	-0.6	2.6	18.6	- 1.3	78	- 3	21.4	16.0	0.0	...	4.9	2.3
2	1011.4	+ 2.6	27.2	19.0	8.2	22.1	-1.1	3.0	17.3	- 2.5	74	- 7	19.8	14.9	0.0	...	4.7	5.2
3	1011.0	+ 2.1	27.1	18.8	8.3	28.0	-0.2	2.8	18.5	- 1.3	76	- 5	21.3	14.6	0.0	...	4.4	5.1
4	1011.5	+ 2.5	27.1	20.7	6.4	23.5	+0.4	3.0	18.8	- 0.9	75	- 6	21.7	19.4	0.2	10	5.6	6.0
5	1009.9	+ 0.9	27.1	19.9	7.2	23.2	+0.2	2.3	19.6	0.0	80	- 1	22.8	17.5	0.0	...	4.4	7.9
6	1008.1	- 1.0	26.5	21.2	5.3	23.3	+0.9	1.6	21.5	+ 2.2	87	+ 7	25.8	19.4	2.3	20	3.5	7.1
7	1007.4	- 1.8	27.9	20.2	7.7	23.8	+1.0	2.0	20.8	+ 1.6	83	+ 3	24.6	16.9	0.0	..	2.0	4.5
8	1008.9	- 0.4	28.2	20.8	7.4	24.1	+1.4	2.2	20.7	+ 1.6	81	+ 1	24.4	17.2	0.0	...	3.8	3.4
9	1010.2	+ 0.9	27.6	22.0	5.6	24.2	+1.6	2.0	21.2	+ 2.2	83	+ 3	25.2	17.1	0.0	..	3.1	8.2
10	1008.2	- 1.2	27.2	21.8	5.4	24.1	+1.6	1.6	21.8	+ 2.9	87	+ 7	26.1	20.3	2.1	10	3.1	5.1
11	1007.3	- 2.3	27.3	22.1	5.2	24.0	+1.6	1.2	22.2	+ 3.4	90	+10	26.8	18.4	1.3	5	3.0	7.3
12	1008.3	- 1.3	27.8	22.0	5.8	24.4	+2.0	2.0	21.4	+ 2.6	83	+ 3	25.5	20.7	0.2	5	2.1	5.9
13	1008.3	- 1.4	28.2	22.1	6.1	24.3	+2.0	2.2	20.9	+ 2.2	81	+ 1	24.7	19.6	1.5	5	4.5	6.1
14	1008.3	- 1.4	25.9	19.1	6.8	22.9	+0.6	3.2	17.8	- 0.9	73	- 7	20.4	19.0	0.0	..	3.4	5.8
15	1007.5	- 2.3	25.1	17.2	7.9	21.3	-0.9	4.4	13.7	- 4.9	62	-18	15.7	12.6	0.0	..	5.3	4.1
16	1008.2	- 1.7	25.7	17.1	8.6	21.2	-1.0	3.9	14.6	- 4.0	66	-14	16.6	12.5	0.0	..	5.0	7.3
17	1008.3	- 1.7	25.3	18.0	7.3	21.3	-0.8	3.5	15.5	- 3.0	70	-10	17.6	16.5	0.0	..	3.8	6.5
18	1008.8	- 1.3	26.7	17.0	9.7	21.1	-0.9	3.7	14.9	- 3.5	68	-12	16.9	12.2	0.0	..	4.1	5.9
19	1009.6	- 0.6	24.0	16.7	7.3	20.7	-1.3	3.8	15.4	- 3.0	72	- 8	17.5	12.0	0.2	1	4.4	3.3
20	1012.4	+ 2.1	23.3	17.4	5.9	20.0	-1.9	3.7	13.6	- 4.8	67	-13	15.6	14.0	0.0	..	5.3	8.2
21	1012.5	+ 2.1	25.2	17.3	7.9	20.7	-1.2	3.3	15.2	- 3.2	71	- 9	17.3	13.2	0.1	5	4.1	7.3
22	1013.3	+ 2.9	25.7	16.3	9.4	20.9	-0.9	2.5	16.8	- 2.5	77	- 3	19.1	13.1	0.0	..	4.0	4.8
23	1014.2	+ 3.7	25.9	20.3	5.6	22.2	+0.4	2.8	17.7	- 0.6	75	- 5	20.2	18.5	0.0	..	5.2	5.7
24	1014.3	+ 3.8	25.4	20.4	5.0	22.4	+0.7	3.9	16.0	- 2.2	67	-13	18.2	18.1	0.0	..	4.5	2.2
25	1014.2	+ 3.6	25.1	20.2	4.9	21.8	+0.1	2.7	17.5	- 0.7	77	- 3	20.0	18.2	2.4	35	5.3	5.8
26	1015.5	+ 4.9	25.0	19.5	5.5	21.9	+0.3	3.1	16.9	- 1.0	73	- 7	19.2	16.1	0.9	30	3.3	4.8
27	1015.8	+ 5.1	25.6	19.4	6.2	22.4	+0.8	4.4	15.1	- 2.8	63	-17	17.2	16.0	0.5	40	4.2	2.8
28	1015.3	+ 4.6	26.3	19.7	6.6	22.5	+1.0	4.4	15.2	- 2.6	63	-17	17.3	16.8	0.0	..	6.4	3.2
29	1013.5	+ 2.7	26.1	19.7	6.4	22.4	+0.9	2.6	18.2	+ 0.4	77	- 3	20.9	19.5	0.0	..	5.6	4.1
30	1013.6	+ 2.7	26.3	20.2	6.1	22.8	+1.4	2.8	18.3	+ 0.6	76	- 4	21.0	19.0	0.6	40	5.3	3.8
31	1015.0	+ 4.1	25.8	20.3	5.5	22.5	+1.1	2.5	18.0	+ 0.3	75	- 4	20.6	18.0	5.2	140	4.6	3.8
Mean	1011.0	+ 1.1	26.3	19.6	6.7	22.5	+0.3	2.9	17.9	+ 0.7	75.2	+ 4.9	20.7	16.7	Sum 17.5	Sum 500	4.3	5.3
Average	1008.[illegible]	...	25.9	19.1	6.8	22.2	...	2.3	18.6	...	80.1	...	21.4	15.7	95.4	1340	3.8	4.8
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

General Weather Conditions during the month of May, 1942

An extra-tropical depression passed well to the south of Mauritius from the 11th - 13th. Apart fromthis anticyclonic condition prevailed. Mean temperature, humidity, cloudiness, sunshine and wind velocity were near the normal value. Rainfall was very low being only 18% of the average.

TABLE VII (Cont'd) - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF M A Y, 1942

Month and Day 1942	Duration of Bright Sunshine	Percentage of Possible sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the Soil: 10 Feet	5 Feet	2 Feet	12 Inches	WEATHER 0h	3h	6h	9h	12h	15h	18h	21h	24h
MAY	hrs	%	m.p.s	m.p.s.	°C	°C	°C	°C									
1	9.3	82	2.8	- 0.5	26.0	26.8	27.1	26.7			b		bc		b		
2	7.9	70	2.1	- 1.2	25.9	26.8	27.0	26.4	bc		c		bc			b	
3	10.5	93	3.3	0.0	26.0	26.7	26.9	26.1					bc				
4	10.9	96	3.3	0.0	25.9	26.7	26.8	26.2	cro		c			bc			
5	4.7	42	2.1	- 1.2	26.0	26.7	26.7	26.1	bc		c	bc	c			bc	
6	3.4	30	1.7	- 1.6	25.9	26.7	26.7	26.1			bc		cro			bc	
7	6.4	57	1.8	- 1.5	25.9	26.7	26.7	26.2				bc				b	bp
8	9.1	81	2.1	- 1.2	25.9	26.7	26.7	26.2			b		bc	c		b	
9	5.6	50	3.1	- 0.2	25.9	26.7	26.7	26.1		c			o		c		bc
10	6.3	56	2.6	- 0.7	26.0	26.7	26.7	26.2	bc	b	cro	oro	bc	bcro	bc		bo
11	2.8	25	1.6	- 1.7	26.0	26.7	26.7	26.3	bo	bcro		c	oro	o	oro		cro
12	10.2	91	2.6	- 0.7	26.0	26.6	26.7	26.3	bcro	c	bc	c		bc			
13	8.0	71	2.6	- 0.7	26.0	26.7	26.7	26.4		bc			bcro	c		o	
14	6.9	62	3.3	0.0	26.0	26.7	26.7	26.5	o		c	bc		b		bo	
15	10.4	94	3.4	+ 0.1	26.0	26.5	26.7	25.8	b		bc	b		bc			c
16	7.4	67	2.3	- 1.0	25.9	26.6	26.5	25.2			bc				o		c
17	3.9	35	2.3	- 0.9	25.9	26.6	26.3	25.2		bc				c		bc	b
18	7.4	67	2.0	- 1.2	26.0	26.6	26.2	25.0		c			bc			b	
19	9.4	85	5.1	+ 1.9	26.0	26.4	26.0	24.7	b	bcro	bc				b		
20	4.3	39	2.8	- 0.4	25.9	26.6	25.8	24.7	o	c		bc		c		bc	
21	5.9	53	2.2	- 1.0	25.9	26.6	25.7	24.3		c		bcro		bc		c	
22	8.3	75	2.9	- 0.3	25.9	26.5	25.5	24.2		b		bc		c		bc	
23	5.1	46	3.8	+ 0.6	25.9	26.6	25.4	24.3	bc	b	bc		c		bc		b
24	10.3	94	5.1	+ 1.9	25.9	26.5	25.3	24.4		b			bc		b		
25	6.7	61	6.5	+ 3.3	25.9	26.4	25.3	24.3		b	bro	bcq	cq	cqro		bc	
26	9.1	83	5.5	+ 2.3	25.9	26.3	25.2	24.2		bc		b	bcq	bcqro		b	
27	9.9	90	5.6	+ 2.4	25.9	26.3	25.2	24.0	bqro		bcqoro		bc			b	
28	9.5	86	4.2	+ 1.0	25.9	26.2	25.1	23.9	b		bc		bq		bcq		
29	8.4	76	4.2	+ 0.9	25.9	26.1	25.0	23.9			bc			bcq		b	
30	9.1	83	4.2	+ 0.9	25.8	26.2	24.9	24.1	b		bc		b		bc	bcro	bc
31	9.8	89	4.5	+ 1.2	25.8	26.2	25.0	24.2			bcro		bc	b		bro	
Mean	7.65	68.3	3.28	+ 0.02	25.93	26.55	26.13	25.30									
Average	7.39	66.4	3.26	...	25.61	26.29	25.51	25.03									
Column	19	20	21	22	23	24	25	26	27								

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF MAY, 1942

Element	Highest	hrs	Date	Lowest		Date
Atmospheric Pressure	1017.1 mbs		often	1005.7 mbs	at 15.00	on 15th
Temperature of the Air	28.2°C	at 13.40 & 12.35	on 8th & 13th	16.3°C	at 07.05	on 22nd
Daily range of temperature of the air	9.7°C		on 18th	4.9°C		on 25th
Temperature of the Dew Point	23.6°C	at 13.00 hrs	on 11th	11.7°C	at 16.00	on 20th
Daily Range of temperature of the dew point	...			...		
Minimum on grass				12.0°C		on 19th
Relative Humidity	97.9%	at 04.00	on 11th	41.6%	at 11.00	on 28th
Vapour Pressure	29.1 mbs	at 13.00	on 11th	13.7 mbs	at 16.00	on 20th
Evaporation in 24 hrs	8.2 mms		on 9th, 20th	2.2 mms		on 24th
Wind Velocity	11.8 m.p.s.	at 14.00	on 19th	0.6 m.p.s.		often
Rainfall in 24 hrs	5.2 mms	ending 2400	on 31st			
Duration of Sunshine	10.9 hrs		on 4th	2.8 hrs		on 11th
Mean day temperature of air	24.11°C	Average 24.08°C		Mean Night Temperature of air 20.93°C		
					Average 20.58°C	

NUMBER OF DAYS OF

Mean Cloud Amount: 0	1 - 3	4 - 6	7 - 9	10	Rainfall: 0.1 - 0.9 mms	1.0 - 4.9 mms	5.0 - 9.9 mms	10.0 - 24.9 mms	25.0 & over mms	Lightning	Thunderstorm
...	6	18	7	...	6	5	1	...	...	...	...

TABLE VIII - ATMOSPHERIC PRESSURE IN MILLIBARS AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level) (The cistern of the barometer is 55.2 metres above mean sea level)

MAY, 1942

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	092	116	119	119	114	093	073	087	101	104	080	082	090	091	092	081	Midnight
1	091	112	114	118	110	090	071	083	100	101	073	082	084	089	088	080	1
2	089	110	110	117	107	088	070	081	099	097	067	080	081	082	081	080	2
3	081	109	106	114	102	081	068	080	094	090	064	078	073	078	078	077	3
4	081	107	103	111	100	078	068	080	091	091	065	073	070	072	075	078	4
5	081	110	104	111	100	079	068	080	096	088	062	079	070	070	075	076	5
6	087	113	110	117	101	079	071	081	101	087	063	081	076	072	079	080	6
7	092	120	114	120	105	085	080	086	103	089	072	086	081	081	081	086	7
8	099	125	119	123	109	092	083	089	109	090	081	090	087	079	083	090	8
9	101	129	120	128	110	096	087	093	111	091	083	091	090	090	085	099	9
10	103	129	120	129	109	097	085	098	113	091	081	092	090	091	087	092	10
11	102	121	114	124	103	092	078	095	111	087	079	090	087	084	080	086	11
Noon	095	116	110	120	096	086	070	090	103	080	073	087	079	081	072	081	Noon
13	089	110	103	112	091	076	061	082	099	071	068	078	076	081	062	075	13
14	083	105	100	104	090	070	058	075	091	065	061	071	076	075	059	069	14
15	086	101	096	101	090	070	059	077	086	060	060	071	078	074	057	068	15
16	089	104	097	101	090	070	060	082	090	061	061	074	080	074	060	070	16
17	092	107	098	103	090	069	062	089	092	064	069	079	085	074	061	076	17
18	100	109	101	106	091	070	070	091	101	068	074	081	083	076	066	080	18
19	105	111	108	111	090	074	074	100	104	073	079	086	083	084	071	086	19
20	111	118	112	118	098	080	085	103	109	083	080	090	093	091	074	091	20
21	116	120	116	121	100	081	085	105	110	083	085	091	091	099	079	090	21
22	116	120	119	120	096	082	088	104	110	082	087	091	086	098	081	090	22
23	117	119	118	118	096	079	088	102	109	081	084	090	090	097	083	089	23

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
Midnight	089	093	096	120	128	132	141	149	144	151	169	170	151	133	150	115	Midnight
1	086	091	091	120	124	131	140	143	150	143	161	166	146	130	148	111	1
2	081	090	089	120	123	130	140	141	141	148	159	161	141	130	145	109	2
3	079	085	082	120	121	128	139	139	140	144	153	156	133	130	[illegible]	105	3
4	076	082	081	120	121	122	137	139	140	143	152	156	132	128	[illegible]	104	4
5	079	087	081	120	121	124	139	138	139	145	151	155	133	130	[illegible]	104	5
6	081	090	086	124	122	129	141	140	140	148	152	159	132	131	143	[illegible]	6
7	086	093	091	128	126	132	144	141	142	151	160	160	140	136	150	[illegible]	7
8	093	100	096	130	130	136	150	149	146	156	163	161	141	141	153	116	8
9	096	101	100	132	131	140	151	152	151	160	168	164	148	144	161	120	9
10	097	101	101	132	131	139	150	154	152	160	169	161	150	149	162	120	10
11	090	094	096	130	128	136	146	151	148	157	163	156	145	142	160	115	11
Noon	081	089	090	126	123	130	142	143	140	152	156	151	139	140	152	109	Noon
13	073	080	086	120	119	125	135	137	133	148	148	141	130	127	142	103	13
14	068	073	081	116	116	121	131	132	130	140	143	140	121	122	139	098	14
15	068	070	083	113	113	122	131	131	131	142	142	139	119	121	136	097	15
16	071	071	090	113	116	126	131	134	131	146	146	139	120	124	139	099	16
17	072	075	097	119	122	131	136	139	138	156	150	140	121	129	142	102	17
18	074	077	101	121	125	132	141	143	141	161	153	142	126	133	148	106	18
19	081	087	107	126	130	140	146	148	143	165	160	145	131	141	152	111	19
20	089	091	113	130	132	141	151	151	150	170	168	150	137	150	159	117	20
21	093	097	118	131	132	146	151	152	150	171	171	151	140	151	162	119	21
22	097	099	120	132	136	150	151	151	150	171	171	153	140	151	162	119	22
23	096	099	120	131	133	146	150	146	153	170	171	154	139	150	161	119	23

TABLE IX - AMOUNT OF CLOUD AT EVERY HOUR OF THE DAY (0 - CLEAR SKY, 10 - OVERCAST SKY)

Hour \ Day	MAY, 1942																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Midnight	1	2	6	6	5	7	4	1	5	4	0	5	4	10	0	5	7	8	2	10	8	3	4	2	1	6	4	1	4	1	5	4.2
1	1	2	6	8	6	7	4	1	8	4	0	5	4	10	1	5	7	8	2	10	8	3	4	2	1	7	3	1	3	1	5	4.4
2	1	4	6	10	7	7	3	1	9	4	0	5	4	10	2	5	7	8	2	10	7	3	4	2	1	8	3	1	4	1	4	4.6
3	1	8	6	10	8	7	3	4	10	4	2	7	4	10	3	5	7	8	2	10	8	3	3	2	1	8	2	1	4	1	6	5.1
4	1	7	6	10	8	6	3	1	10	3	5	8	4	10	3	5	7	8	5	10	9	3	3	3	1	6	4	1	4	1	7	5.2
5	1	8	4	9	8	6	4	1	8	3	5	8	4	10	3	6	7	9	7	9	9	2	2	3	2	5	3	2	4	9	7	5.4
6	1	8	4	8	8	6	4	0	9	3	6	8	4	10	2	10	7	9	8	9	9	1	2	3	6	4	4	8	4	9	7	5.8
7	1	8	4	8	8	6	4	0	9	3	6	8	4	10	2	10	7	9	8	9	9	1	2	3	6	3	5	8	6	9	7	6.0
8	3	7	5	5	7	7	6	1	9	6	7	7	4	9	4	5	7	8	7	9	9	1	7	3	6	2	4	4	6	5	6	5.7
9	4	7	5	3	7	8	8	2	9	9	8	6	4	8	4	1	7	7	6	9	9	2	9	3	6	2	3	1	8	1	5	5.5
10	4	7	5	4	7	8	9	4	9	9	8	9	3	6	4	7	6	6	5	9	7	3	9	3	8	4	2	0	7	2	5	5.8
11	6	8	6	5	9	9	8	4	8	10	9	8	4	5	5	8	7	6	4	7	6	5	9	4	8	8	4	0	8	2	4	6.3
Noon	6	7	7	7	9	10	7	5	9	10	9	8	5	7	3	6	7	6	3	7	6	7	9	4	7	4	7	0	6	2	3	6.2
13	5	6	6	6	9	9	7	6	9	8	10	6	6	7	3	6	7	6	2	9	8	8	9	3	10	6	5	3	7	3	3	6.4
14	3	6	5	6	9	9	7	7	10	7	10	4	6	7	3	6	8	6	2	9	7	9	9	3	10	8	3	5	7	3	2	6.3
15	3	7	6	6	10	9	7	8	10	6	10	5	5	6	4	9	8	7	2	8	6	9	9	2	8	4	4	7	6	3	2	6.3
16	3	6	6	6	10	8	6	8	10	6	10	5	7	5	5	9	8	6	2	8	5	8	8	2	8	4	2	5	4	4	2	6.0
17	2	4	5	5	9	7	5	8	10	6	10	5	9	3	6	10	8	4	1	7	3	8	7	1	8	4	2	3	2	4	2	5.4
18	2	4	4	5	9	7	4	8	9	5	10	5	9	1	1	10	8	4	1	8	3	7	6	1	10	4	2	4	2	5	2	5.2
19	2	3	4	5	8	7	3	4	7	5	10	5	10	0	5	10	7	3	1	8	9	7	5	1	8	3	1	4	1	5	1	4.9
20	2	2	5	4	7	6	1	1	6	4	10	4	10	0	9	10	3	2	1	6	8	6	4	1	6	4	1	4	1	5	1	4.3
21	1	1	3	3	7	6	1	1	5	3	10	4	10	0	9	9	3	2	1	5	8	5	4	1	5	4	1	4	1	4	1	3.9
22	1	1	3	3	7	5	0	0	5	0	8	4	10	0	9	9	3	2	1	5	8	4	3	1	5	4	1	4	1	4	1	3.6
23	0	1	5	4	7	5	0	3	5	0	8	4	10	0	9	9	3	2	1	6	8	5	3	1	5	5	1	4	1	4	4	3.0

TABLE X - DURATION OF BRIGHT SUNSHINE AT EVERY HOUR OF THE DAY AS RECORDED BY THE CAMPBELL-STOKES SUNSHINE RECORDER

Hour Ending \ Day	MAY, 1942																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	hr s.
6h	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
7	30	20	10	28	0	0	0	30	0	0	0	15	0	0	25	0	0	0	0	0	0	18	4	12	0	11	16	15	13	45	0	4.0
8	60	55	60	60	8	20	30	60	30	20	0	60	60	0	60	58	0	30	28	38	10	60	1	60	57	60	60	30	40	60	44	20.1
9	60	60	60	60	50	54	60	60	60	50	52	50	60	28	60	60	34	60	60	15	20	60	60	60	56	60	60	56	60	60	60	26.7
10	60	60	60	60	54	60	57	60	58	52	35	60	60	50	60	57	1	55	60	24	45	60	60	60	60	60	60	60	58	60	60	28.0
11	15	57	60	60	60	25	56	60	60	40	60	60	60	52	60	22	30	50	60	28	20	60	44	60	60	60	60	60	35	60	60	26.2
Noon	15	45	60	60	55	7	60	60	60	12	6	60	60	33	60	34	40	54	60	33	60	60	50	60	53	60	60	60	60	60	60	25.1
13	60	38	60	60	40	15	34	60	35	48	0	60	60	15	60	60	24	60	60	40	54	60	56	60	48	60	60	60	60	60	60	25.2
14	53	40	60	60	17	20	25	60	25	60	0	60	33	55	60	60	10	24	60	27	35	60	27	60	22	60	60	60	54	60	60	23.3
15	60	55	60	60	0	0	20	60	15	60	0	60	60	60	60	36	54	30	60	0	40	33	0	60	12	54	60	43	45	60	60	21.8
16	60	30	60	60	0	0	0	35	2	37	15	60	25	60	60	26	30	26	60	48	55	20	0	60	25	52	60	60	17	57	60	19.4
17	60	8	60	60	0	0	40	0	0	0	0	60	0	60	60	32	11	44	60	5	18	8	0	60	10	17	40	60	49	20	52	14.9
18	25	0	18	29	0	0	3	0	3	0	0	10	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	6	8	0	16	2.3
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0

TABLE XI - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the Absolute Scale add 273)

M A Y, 1942

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	20.1	1.2	20.1	2.1	19.8	1.8	22.9	2.0	21.1	1.9	22.6	1.3	22.0	1.1	22.0	1.1	Midnight
1	20.0	1.3	19.4	2.0	19.1	1.4	21.9	1.3	20.9	1.8	22.7	1.1	21.2	1.0	21.7	1.0	1
2	20.0	1.3	19.1	1.8	19.0	1.6	22.0	1.3	20.2	1.4	22.3	1.0	21.1	1.1	21.5	1.0	2
3	19.9	1.3	19.1	1.8	19.3	1.4	22.1	1.7	20.6	1.5	22.3	1.1	21.2	1.0	21.1	0.9	3
4	20.1	1.2	19.1	1.7	19.1	1.3	22.3	2.2	20.1	1.4	22.0	1.0	20.9	1.1	21.5	0.8	4
5	21.5	1.9	19.2	1.8	19.6	1.3	22.1	2.1	20.6	1.5	22.1	1.0	20.9	1.0	21.1	1.0	5
6	20.3	1.3	19.1	1.8	19.2	1.2	22.1	2.2	20.4	1.2	21.7	1.1	20.7	0.8	21.0	1.0	6
7	20.4	1.3	20.0	1.7	19.7	1.5	22.2	2.2	20.9	1.2	21.2	1.0	20.8	0.8	21.2	1.1	7
8	23.8	1.7	22.3	2.3	23.7	1.9	24.1	3.4	22.3	1.1	23.7	1.4	23.2	0.9	24.3	1.3	8
9	25.1	2.9	24.6	4.5	25.1	3.4	25.1	4.0	25.1	3.1	25.6	2.5	25.9	2.6	25.9	2.7	9
10	26.0	3.4	25.5	4.8	26.0	4.2	25.9	4.3	25.4	3.4	26.1	3.1	26.2	3.0	26.3	3.2	10
11	25.0	2.8	25.9	5.0	26.8	4.8	26.4	4.6	26.1	3.9	25.0	1.9	26.7	3.0	27.5	4.1	11
Noon	25.3	3.3	26.0	4.9	26.9	4.9	26.2	4.6	27.0	4.8	25.8	2.8	26.9	3.7	27.6	4.1	Noon
13	26.2	4.1	27.1	4.8	27.0	5.3	26.3	5.1	27.0	4.6	26.0	2.7	27.3	4.2	28.1	4.7	13
14	26.4	4.7	26.9	4.6	26.6	4.6	26.3	5.1	26.6	4.6	25.9	2.7	27.6	4.3	28.0	4.9	14
15	26.0	4.7	26.0	5.9	26.1	4.3	26.2	5.1	26.0	4.1	26.0	2.7	27.0	3.5	27.8	4.6	15
16	25.1	4.3	24.6	4.6	25.3	3.7	25.6	4.5	25.1	3.2	26.0	2.2	26.7	3.6	26.7	3.6	16
17	24.1	4.0	23.6	4.0	24.1	3.0	24.3	3.7	24.4	2.2	25.3	1.4	26.0	3.0	25.9	4.8	17
18	22.9	3.1	22.0	2.5	23.3	2.4	23.1	2.9	24.0	2.2	24.2	1.2	24.9	2.0	24.8	1.8	18
19	22.0	2.5	21.3	2.2	23.0	2.4	22.5	2.4	23.1	1.8	23.2	1.1	23.3	1.2	23.3	1.6	19
20	21.9	2.7	20.8	2.1	22.9	2.3	22.1	2.2	22.5	1.4	23.1	1.1	23.0	1.1	22.7	1.7	20
21	21.3	2.6	20.0	2.0	22.8	2.3	21.8	2.2	22.1	1.1	23.0	1.2	22.9	1.1	22.3	1.5	21
22	21.4	2.7	19.7	2.1	22.4	1.8	21.3	2.1	22.6	1.6	22.9	1.4	22.5	1.3	22.2	1.3	22
23	20.7	2.9	19.2	1.9	22.8	2.1	21.0	1.8	22.5	1.3	22.4	1.2	22.1	1.1	22.7	1.3	23

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	23.0	1.0	22.7	1.0	22.9	0.8	23.3	1.5	22.9	1.0	22.3	1.2	19.3	3.3	18.1	1.9	night
1	23.0	1.1	22.3	0.8	22.3	0.9	23.0	0.9	22.8	1.0	22.6	1.5	20.1	3.6	17.3	1.5	1
2	22.9	1.4	22.2	0.8	22.8	0.6	23.1	0.9	22.8	1.1	22.1	1.2	19.6	3.5	18.3	2.2	2
3	22.4	1.1	22.8	0.9	23.1	0.7	23.0	0.9	22.7	1.1	22.0	1.2	20.2	3.5	18.0	2.0	3
4	22.2	1.0	22.0	1.0	23.2	0.3	22.7	0.7	22.3	0.9	22.1	1.3	20.0	4.6	18.0	1.9	4
5	22.1	1.0	22.1	1.0	23.1	0.4	22.4	0.7	22.2	0.9	22.2	2.1	18.3	3.0	18.9	2.3	5
6	22.0	1.0	22.2	1.0	22.7	0.6	22.2	0.9	22.7	0.9	23.2	2.5	18.0	3.0	18.8	1.9	6
7	22.5	1.3	23.0	1.0	22.9	0.7	22.3	0.3	22.8	0.9	23.3	2.5	18.0	3.0	19.1	2.3	7
8	23.7	1.7	23.9	1.0	23.7	0.6	24.5	1.3	24.6	1.6	23.2	2.7	21.0	4.3	20.9	2.8	8
9	25.3	2.2	25.0	1.8	25.0	1.9	25.9	2.4	26.1	2.8	24.9	3.2	23.0	5.4	23.0	5.7	9
10	26.1	3.1	26.3	2.9	25.9	1.9	26.1	2.8	26.7	3.6	25.0	3.5	23.7	5.5	24.1	6.6	10
11	26.8	3.7	26.1	2.9	27.1	2.9	26.6	3.4	27.1	3.9	25.2	4.2	23.7	6.2	23.9	5.2	11
Noon	26.7	3.6	25.1	1.1	26.7	2.4	27.1	3.8	28.0	4.3	25.0	4.0	24.6	7.0	24.5	6.5	Noon
13	27.0	3.9	26.6	2.8	25.8	1.5	27.2	4.2	25.4	1.4	24.9	4.0	24.9	6.9	25.0	7.2	13
14	26.9	3.7	27.1	3.4	25.6	1.6	27.4	4.8	26.0	2.0	25.6	4.8	24.8	6.5	24.7	6.6	14
15	26.6	3.5	27.0	3.5	25.2	1.5	27.1	4.3	26.4	3.3	24.3	4.4	24.1	6.3	24.1	4.9	15
16	26.0	3.0	26.1	2.8	24.8	1.8	26.6	4.1	25.7	3.5	24.1	4.8	23.7	6.2	23.4	4.8	16
17	25.3	2.3	25.1	1.8	24.1	1.4	25.6	2.8	24.2	3.1	23.1	4.2	23.0	5.1	22.3	5.1	17
18	24.4	1.5	24.7	1.7	23.6	1.4	24.2	1.9	23.9	2.8	22.1	3.8	21.2	4.3	21.0	2.9	18
19	24.0	1.4	23.2	1.1	23.0	0.9	23.3	1.3	23.3	2.2	21.5	3.5	20.5	3.8	21.1	2.8	19
20	23.3	1.2	23.2	1.1	23.1	1.1	23.1	1.2	23.5	2.4	21.1	3.9	20.0	3.7	21.0	3.9	20
21	23.1	1.0	23.8	0.9	23.2	1.2	23.1	1.1	23.7	2.5	20.5	3.7	20.1	3.2	20.9	4.7	21
22	22.8	1.0	23.0	0.9	23.2	1.1	23.2	1.1	23.7	2.4	20.4	4.2	20.1	2.3	20.2	2.7	22
23	22.8	1.1	23.0	0.9	23.0	1.4	23.0	1.0	23.1	1.6	19.2	3.1	19.3	2.0	20.1	2.8	23

TABLE XI (Ctd) - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the abeolute scale add 273)

M A Y, 1942

Day / Hour	17		18		19		20		21		22		23		24		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	20.6	3.5	18.0	2.0	17.6	2.0	20.2	3.8	17.9	2.0	18.9	1.6	21.0	2.9	21.1	2.1	Mid-night
1	20.4	3.2	17.9	2.3	17.0	1.4	19.9	3.6	17.3	1.9	19.1	1.4	21.2	2.7	21.1	2.4	1
2	20.1	2.9	17.8	2.4	18.0	1.4	19.1	2.9	17.6	2.0	17.8	1.5	20.9	2.5	21.1	2.7	2
3	19.5	2.5	18.1	2.8	18.0	1.2	19.1	3.0	18.8	2.4	17.7	1.5	21.0	2.5	20.9	2.8	3
4	19.2	2.9	18.1	2.8	18.7	1.4	18.9	3.0	18.8	2.3	17.8	1.5	20.9	2.5	20.9	2.9	4
5	19.9	2.7	18.1	2.7	19.9	1.6	18.1	2.9	18.7	2.4	17.1	0.9	20.9	2.6	20.7	2.7	5
6	19.9	2.2	18.7	2.6	20.2	1.6	18.1	2.9	18.5	1.9	17.0	1.3	20.6	2.2	20.6	2.7	6
7	19.9	2.0	19.0	2.6	20.1	2.0	17.9	2.7	18.0	1.6	16.4	1.0	20.5	2.2	21.1	3.0	7
8	21.1	3.0	22.6	4.3	21.5	2.6	19.6	2.9	19.6	2.2	19.0	0.7	21.3	2.3	22.3	3.8	8
9	23.4	5.1	23.9	5.7	22.2	[illegible]	21.1	4.4	23.2	3.0	22.0	4.0	22.9	3.4	23.9	4.9	9
10	23.4	4.5	24.7	5.5	23.4	4.4	22.1	5.3	22.8	4.5	24.3	4.3	24.9	4.7	24.3	5.1	10
11	24.1	5.6	24.3	4.5	23.1	4.5	21.7	4.7	23.7	5.8	24.8	4.5	25.7	5.0	24.8	5.5	11
Noon	24.1	5.3	25.8	5.2	23.2	5.3	22.0	5.0	25.0	7.4	24.9	4.6	24.7	4.7	24.9	5.7	Noon
13	[illegible]	6.0	26.2	5.6	23.7	6.3	22.9	6.0	24.1	6.0	25.3	5.0	25.3	4.6	25.0	6.0	13
14	24.2	6.1	25.4	5.0	23.1	6.2	22.7	5.4	24.1	5.9	24.3	3.9	24.9	4.3	25.0	5.9	14
15	24.5	3.3	24.6	5.0	22.3	6.1	21.9	5.1	24.1	5.5	23.2	3.1	23.7	3.4	24.5	5.3	15
16	23.9	4.9	23.9	5.8	21.9	5.7	22.0	5.8	23.3	4.9	23.0	3.8	23.5	3.3	23.9	5.4	16
17	23.0	4.0	23.0	5.4	21.0	5.5	21.0	4.2	21.9	3.7	21.7	2.7	23.1	3.3	22.8	5.0	17
18	21.1	2.5	21.3	3.6	20.0	4.8	20.2	3.5	20.6	2.4	21.0	2.1	22.0	2.0	21.7	3.9	18
19	20.3	1.8	20.9	3.7	19.9	4.6	19.2	2.9	20.6	2.4	21.0	2.7	21.3	2.2	21.2	3.4	19
20	19.4	1.8	19.0	2.6	19.8	4.6	18.6	2.6	19.8	2.0	21.0	2.1	21.1	1.6	21.6	3.7	20
21	18.7	1.8	19.0	2.3	19.9	4.6	18.0	2.2	19.9	2.2	21.1	2.2	21.0	1.9	21.3	3.5	21
22	18.3	1.7	18.2	2.2	20.1	4.6	18.2	1.9	19.0	1.8	21.1	2.6	20.9	1.3	21.4	2.8	22
23	18.1	1.8	17.9	2.3	20.5	4.5	18.3	2.0	19.1	1.6	21.1	2.8	20.7	1.6	21.2	2.6	23

Day / Hour	25		26		27		28		29		30		31		Mean		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	21.1	2.7	21.1	2.8	20.1	3.2	21.9	4.7	20.0	2.3	21.2	1.3	21.1	1.6	20.9	2.1	Mid-night
1	21.1	2.9	21.1	1.8	20.2	3.2	21.1	3.9	20.0	2.2	21.8	1.8	21.3	1.4	20.7	1.9	1
2	21.2	2.9	20.7	1.8	20.8	2.7	20.8	3.7	20.6	2.6	21.6	1.7	21.1	1.3	20.6	1.9	2
3	21.0	2.7	20.9	1.3	20.2	2.2	21.0	3.4	21.0	2.7	21.1	1.4	21.0	1.5	20.6	1.8	3
4	20.9	2.8	20.6	1.6	19.6	1.6	20.2	2.5	20.9	2.0	21.6	1.6	21.2	1.7	20.5	1.8	4
5	21.1	2.9	20.6	1.6	19.9	2.8	20.7	2.9	21.2	2.6	20.3	1.5	21.2	1.8	20.5	1.8	[illegible]
6	20.3	1.6	21.1	2.2	20.6	4.0	21.3	3.3	20.6	2.3	20.5	1.6	21.1	1.2	20.5	1.8	6
7	21.0	2.5	21.2	2.4	21.1	3.5	20.3	2.5	20.7	1.7	20.3	1.5	21.1	1.3	20.6	1.8	7
8	22.1	2.8	22.7	3.0	22.1	3.8	21.2	2.1	21.8	2.5	22.1	2.0	22.1	1.9	22.4	2.3	8
9	23.0	3.0	24.0	3.9	23.9	5.4	23.5	4.0	24.2	4.0	24.3	3.9	24.0	3.2	24.2	3.6	9
10	23.8	3.7	24.7	4.0	24.7	6.4	24.9	6.8	24.3	3.5	25.1	4.4	24.5	3.8	24.9	4.2	10
111	23.7	3.7	23.5	3.1	24.8	6.4	25.9	8.1	25.2	4.2	25.6	5.2	25.2	4.2	25.2	4.4	11
Noon	23.8	3.7	24.3	3.9	24.4	4.5	26.1	8.0	25.3	4.3	25.9	5.3	25.3	4.5	25.5	4.7	Noon
13	24.3	4.1	23.0	2.8	25.0	5.5	26.0	7.1	25.4	4.2	26.2	5.3	25.4	4.9	25.6	4.7	13
14	22.8	2.7	24.5	4.6	25.1	6.3	26.0	6.7	25.0	4.6	26.0	5.2	25.3	5.0	25.5	4.7	14
15	21.7	1.6	23.4	4.1	25.0	6.8	24.9	6.3	25.2	4.3	25.3	4.5	25.1	4.8	25.0	4.4	15
16	22.2	2.6	23.3	4.2	24.3	5.2	24.9	6.5	23.9	2.9	24.7	3.7	24.0	3.1	24.5	4.2	16
17	20.9	1.3	23.2	4.9	23.6	5.6	23.7	6.4	23.7	2.8	23.5	3.2	23.0	2.3	23.5	3.5	17
18	20.3	1.2	20.8	4.1	22.6	4.2	21.3	3.3	22.1	1.6	22.2	2.1	22.1	1.6	22.4	2.6	18
19	20.9	1.9	19.6	2.9	22.2	3.7	20.9	2.8	21.9	1.8	22.0	1.9	21.6	1.9	21.8	2.4	19
20	21.1	1.9	20.9	2.9	22.1	3.9	21.2	2.9	21.5	1.4	21.3	1.3	21.7	2.2	21.5	2.2	20
21	21.9	3.3	21.2	3.8	21.9	4.5	21.3	3.2	21.3	1.3	21.2	1.3	21.2	2.1	21.4	2.3	21
22	22.1	3.8	20.6	3.9	21.2	4.2	21.0	3.0	21.1	1.2	21.0	1.4	21.1	1.8	21.2	2.2	22
23	21.8	2.9	19.9	3.5	21.5	4.4	20.1	2.3	21.3	1.3	21.5	1.7	20.8				

TABLE XII - DIRECTION AND VELOCITY OF THE WIND AT EVERY HOUR OF THE DAY AS RECORDED BY THE ROBINSON CUP ANEMOMETER DURING M A Y, 1942

The directions are given in points and the values indicate the direction fromwhich the wind blows counting from North (0), East (8), South (16) and West (24)

The velocities are given in metres per second, using the factor 2.2
(The days on which the Normal Trade Winds are interrupted are indicated by an asterisk *)

M A Y, 1942

Hour \ Day	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Mid-night	13	1.2	12	2.0	12	1.2	11	3.6	11	2.5	11	2.2	11	2.2	09	1.8	12	2.6	10	2.0	07	1.3	12	3.4	10	2.5	11	1.8	15	2.1	14	0.6
1	13	1.5	12	2.0	12	1.2	12	2.8	11	1.8	11	2.2	11	1.7	09	1.6	10	3.0	10	1.8	07	1.0	10	1.8	10	2.4	14	1.5	16	2.5	14	1.4
2	13	1.5	12	1.8	12	1.4	10	2.2	12	1.8	11	1.5	11	1.7	09	1.8	10	2.9	10	1.9	07	1.4	12	0.9	10	2.5	14	1.2	15	1.4	14	2.0
3	13	1.4	12	1.9	12	1.1	08	2.2	12	1.8	11	1.5	11	1.3	09	1.6	10	2.3	10	2.3	07	1.3	10	1.9	10	2.9	14	1.1	15	3.0	14	1.9
4	13	1.7	12	2.0	12	1.7	12	2.8	12	1.8	11	2.4	11	1.9	09	1.5	10	2.1	10	1.8	07	1.3	10	2.0	10	2.4	14	1.4	15	3.9	11	1.8
5	16	1.9	11	2.2	12	1.8	12	2.5	12	1.7	08	1.4	11	1.5	09	1.9	10	1.5	10	2.4	07	0.8	10	1.8	10	1.8	14	2.5	15	1.8	14	1.8
6	15	1.1	11	1.7	12	1.4	14	3.0	12	1.8	08	1.1	11	1.8	09	2.2	10	1.8	10	2.5	07	1.3	10	1.9	10	3.1	18	3.6	16	2.4	14	1.5
7	15	1.0	11	1.6	12	1.9	13	2.2	12	1.5	08	1.1	11	1.7	10	1.6	10	2.2	10	3.1	15	1.3	10	1.8	10	2.6	15	4.2	15	2.2	14	2.1
8	15	1.0	11	1.5	12	2.3	13	3.2	11	1.0	09	0.6	11	1.4	09	1.8	11	3.8	09	2.4	15	0.7	10	2.1	10	2.2	15	2.1	15	1.2	14	2.1
9	14	3.4	11	2.6	10	4.5	11	4.4	10	2.8	11	1.5	11	2.0	10	2.9	11	4.5	08	3.4	15	0.6	10	2.7	10	3.7	15	3.7	14	3.5	14	2.1
10	14	4.4	10	3.1	10	4.6	12	4.3	11	3.4	10	3.0	08	2.5	10	2.5	10	5.2	07	3.7	d25	1.2	08	3.1	09	4.1	15	4.7	14	6.1	11	3.3
11	13	5.3	10	2.8	10	5.2	11	5.1	07	3.3	13	2.1	10	2.6	06	3.4	09	4.9	05	3.9	29	1.5	07	4.9	07	3.7	12	4.8	13	6.4	13	4.0
Noon	12	4.3	11	2.5	11	5.5	12	5.9	08	3.2	15	1.4	08	2.2	09	3.4	09	4.7	06	3.6	31	2.1	07	3.7	08	3.1	15	6.3	14	6.5	13	4.3
13	13	5.4	d25	2.2	11	5.3	12	5.2	08	2.3	13	2.6	08	2.3	08	3.5	10	4.7	08	4.4	03	2.2	07	2.4	09	2.7	14	4.2	12	7.4	12	3.4
14	13	5.6	24	1.8	10	5.6	11	4.9	07	2.5	13	2.4	07	2.3	09	3.4	10	3.9	06	4.2	05	1.7	10	3.5	10	3.7	16	4.5	15	5.7	12	4.1
15	14	4.9	d12	2.0	10	5.9	12	4.9	10	2.0	17	1.5	05	1.4	10	2.8	10	4.3	06	4.1	07	1.9	10	3.2	10	3.9	14	4.9	13	5.9	14	4.4
16	13	5.0	11	2.2	10	5.5	11	4.4	11	2.8	17	1.1	06	1.7	09	1.4	10	4.4	07	3.6	06	2.8	09	3.6	11	2.6	13	5.2	13	5.6	13	3.8
17	13	4.3	11	2.4	12	4.9	11	3.3	11	1.7	12	1.1	10	1.5	12	1.1	09	3.6	07	1.7	07	2.2	10	2.6	13	2.3	15	3.3	14	4.2	13	2.5
18	13	1.7	11	2.1	11	2.3	12	2.5	11	1.8	12	1.1	10	1.5	12	1.5	10	3.1	07	1.6	11	1.5	10	2.7	12	1.1	15	2.1	14	2.7	13	0.7
19	13	2.0	11	2.5	12	3.0	12	2.4	11	2.0	12	1.4	10	1.8	12	0.7	10	1.9	07	1.7	10	2.6	10	1.8	10	2.0	17	2.9	14	2.2	13	1.0
20	13	2.0	12	2.7	12	2.2	12	2.1	11	1.5	12	2.0	10	1.8	12	1.8	10	2.0	07	2.0	10	1.7	10	2.5	16	1.4	17	3.3	15	1.9	13	1.6
21	14	2.1	12	1.8	11	3.1	12	2.4	11	1.6	12	1.9	09	1.5	12	1.4	10	2.1	07	1.8	10	1.9	10	2.[illegible]	15	1.9	17	3.2	15	1.9	10	2.0
22	12	2.8	12	1.8	13	3.8	12	2.5	11	1.8	12	1.8	09	1.3	12	2.0	10	1.8	07	1.6	12	1.5	10	2.[illegible]	13	2.6	17	3.1	11	0.6	10	0.9
23	12	2.9	12	1.8	12	3.7	12	2.1	11	2.2	12	2.0	09	2.0	11	2.3	10	2.2	07	2.0	12	1.8	10	2.[illegible]	10	1.2	16	2.1	14	1.1	10	1.2

Hour \ Day	17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		Mean Velocity
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	
Mid-night	10	1.8	13	2.1	14	1.9	13	3.3	15	1.0	15	0.7	11	3.4	12	4.6	11	4.9	09	7.3	11	3.1	09	4.4	10	3.2	10	2.6	10	2.9	2.6
1	10	1.5	13	1.8	14	1.4	12	2.9	15	1.7	15	0.5	12	3.7	11	4.2	12	5.1	11	5.4	11	4.1	08	3.8	10	2.9	09	4.4	10	3.4	2.5
2	10	1.1	13	2.1	12	2.0	13	2.1	15	2.0	15	1.0	12	3.2	12	3.9	11	5.4	09	6.0	10	5.1	09	3.6	10	4.2	11	4.0	10	3.1	2.5
3	10	1.1	13	1.9	14	1.3	13	1.2	15	2.0	15	0.5	13	3.0	12	4.1	12	4.5	09	5.5	10	4.5	09	2.8	09	5.6	10	3.7	11	1.6	2.3
4	10	1.8	13	1.2	14	1.3	16	1.6	16	2.2	15	1.2	12	3.1	13	4.0	12	4.3	10	4.4	11	6.1	10	3.5	10	4.7	09	5.0	10	5.0	2.6
5	16	2.3	13	1.1	12	1.4	16	2.7	16	1.5	15	1.6	12	3.4	12	3.7	12	5.0	10	4.6	10	5.0	10	4.4	09	4.1	09	4.4	11	3.9	2.5
6	16	1.3	13	1.4	14	2.9	14	2.3	16	1.4	15	0.8	13	3.9	12	3.0	12	6.0	11	5.4	10	5.3	08	5.0	10	4.2	11	2.6	10	3.8	2.6
7	16	1.6	13	1.2	13	3.1	16	1.3	16	1.7	15	0.7	13	2.7	12	4.8	12	6.5	11	4.5	10	5.5	08	3.2	10	3.1	11	1.9	10	3.8	2.5
8	16	1.3	13	0.5	14	5.1	13	0.8	13	2.2	15	0.6	14	3.5	12	6.0	12	6.0	11	4.4	10	5.7	10	4.4	10	3.3	12	3.0	11	4.4	2.6
9	15	2.5	13	0.6	13	5.3	14	3.0	16	2.8	12	3.7	13	4.4	12	5.4	12	6.0	10	6.7	09	7.2	09	6.1	07	5.2	09	6.6	10	4.8	2.8
10	08	2.8	19	1.2	14	5.3	14	3.9	13	2.8	10	3.8	12	5.2	13	7.1	12	8.3	10	7.4	10	7.7	08	6.8	09	6.4	10	6.4	09	6.9	4.6
11	12	3.2	23	1.4	13	9.6	14	4.8	13	4.0	14	4.1	13	5.0	13	7.3	12	8.1	10	8.2	11	7.1	08	6.4	10	5.0	09	6.1	10	6.4	4.9
Noon	12	3.7	22	2.3	13	10.7	15	4.8	16	4.0	12	4.3	13	4.2	13	7.1	12	8.5	08	8.1	10	7.5	08	5.8	10	5.0	08	5.6	11	6.1	4.9
13	12	3.4	25	3.0	14	11.0	13	5.1	15	3.8	12	5.2	13	5.1	12	7.2	12	8.9	09	7.6	09	7.1	09	5.5	10	4.9	09	6.0	10	7.0	5.0
14	11	3.1	24	3.0	13	11.8	13	4.6	14	4.0	13	6.4	12	4.5	13	7.2	12	7.4	09	8.7	09	7.5	10	4.5	10	4.8	09	6.0	10	6.4	4.8
15	13	4.0	06	1.6	13	11.7	15	5.0	14	3.7	14	4.7	12	4.2	11	6.5	12	6.9	09	7.3	09	7.2	09	5.1	10	5.4	09	6.7	09	6.6	4.7
16	12	3.6	d14	3.7	13	6.7	13	5.5	14	3.4	14	5.6	14	3.6	13	6.0	12	7.8	10	7.2	09	7.0	09	4.8	09	4.4	10	5.3	10	5.9	4.4
17	12	1.9	14	3.8	13	6.1	15	2.3	15	2.1	13	4.4	13	3.5	13	5.0	11	6.7	10	5.8	09	6.0	09	3.2	10	4.3	12	3.8	12	4.9	3.4
18	13	2.3	14	2.1	14	3.7	17	3.1	15	1.0	13	3.3	11	2.7	13	3.7	10	6.1	10	3.0	08	4.6	10	2.4	10	3.1	10	2.9	11	3.4	2.5
19	13	2.9	14	3.4	13	4.8	15	1.7	15	0.7	13	2.2	12	3.7	14	2.9	11	6.5	11	2.5	09	4.5	10	3.4	10	3.1	11	2.0	11	3.2	2.5
20	13	2.2	14	1.8	13	4.0	15	1.9	15	1.2	13	4.3	11	4.3	13	4.5	10	6.4	11	3.4	09	4.4	10	3.6	09	3.6	10	3.1	11	4.6	2.8
21	1[illegible]	1.9	14	2.2	14	3.4	15	[illegible]	15	1.2	12	3.1	12	3.1	12	4.4	10	6.5	11	4.2	09	4.2	10	3.7	10	3.4	10	2.7	11	3.6	2.7
22	13	1.7	14	2.1	13	3.9	15	1.3	15	0.8	12	3.2	12	4.0	11	4.1	10	6.4	10	3.6	09	3.8	10	3.1	10	3.4	11	1.9	11	3.1	2.5
23	13	2.6	14	1.8	13	4.2	15	0.7	15	0.6	12	3.2	13	3.7	12	4.7	11	6.0	11	2.7	09	4.1	10	2.9	10	3.3	10	3.0	10	2.4	2.5

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS) MAY, 1942

Force (0 - 12)				Direction															
Hour	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
3	-	2	29	-	-	-	-	6	7	12	3	3	-	-	-	-	-	-	-
9	-	6	25	-	-	-	-	5	7	11	4	4	-	-	-	-	-	-	-
15	-	9	22	-	-	1	2	6	7	8	5	2	-	-	-	-	-	-	-
21	-	1	30	-	-	-	-	3	8	12	3	5	-	-	-	-	-	-	-
Totals	-	-	-	-	-	1	2	20	29	43	15	14	-	-	-	-	-	-	-

TABLE XIVa - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY FOR MAY, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
1	..	..	..	0.2	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.5
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..
4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	0.1	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	0.1	..	..	..	..	..	0.1
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.0
8	..	..	..	..	..	..	..	..	..	0.2	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	0.7	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	1.6	..	..	..	..	0.3	..	1.1	..	..	..	..	..	..	..	..	..	..	..	0.1	0.4	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	0.3	..	..	..	..	..
16	..	..	..	..	..	..	..	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	0.2	..	..	..	..	..
18	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..
21	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.8
24	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.9	..	..	..	..	..	0.1

TABLE XIVb - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR MAY, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	..	..	0.2	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	0.4	0.2	..	..	..	0.6
2	..	..	..	..	..	0.1	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	0.2	0.2	0.2	..	..	..	..
3	..	..	..	..	..	..	..	..	..	0.1	..	0.3	..	..	..	..	..	..	0.5	..	..	..	..	..	0.3	0.3	0.3	..	..	0.4
4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.8	..	..	..	..	0.2	..	0.9	..	..	..	0.2
5	..	..	..	..	..	..	..	..	..	..	0.3	..	..	1.3	..	..	..	..	3.2	..	0.7	..	..	..	0.4	1.7	..	..	0.2	0.3
6	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	0.2	..	2.3	..	..	..	..	..	2.0	0.1	..	0.4	..	0.3
7	..	..	..	..	..	..	..	..	..	..	..	..	..	3.0	..	..	..	..	1.0	..	..	..	..	0.2	5.7	..	..	..	0.2	0.3
8	..	..	..	..	..	0.2	0.2	..	..	0.2	..	..	..	0.4	..	0.1	..	..	0.7	..	..	..	..	..	1.3	..	..	0.4	..	..
9	0.3	..	..	..	0.3	..	..	..	..	..	..	..	..	0.5	..	..	..	..	..	..	..	..	..	..	0.5	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	0.2	..	..	..	..	..	0.9	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.0	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	0.3	0.6	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.5	0.3	..	..	..	..
14	..	..	..	..	..	..	1.0	..	..	..	..	..	1.5	..	..	..	..	..	..	..	..	..	..	..	0.6	0.7	..	..	..	..
15	..	..	..	..	..	..	0.3	..	..	..	0.4	..	3.8	..	..	..	..	..	..	..	..	..	..	..	3.6	0.3	..	..	..	0.2
16	..	..	..	..	..	..	0.7	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	0.6	0.5	..	..	..	..
17	..	..	..	..	..	..	..	..	..	..	0.8	..	..	..	..	..	..	..	..	..	..	..	..	..	0.7	..	..	..	0.2	..
18	..	..	..	..	..	..	..	..	..	..	2.4	..	..	..	..	..	..	..	..	..	..	..	..	..	1.0	..	..	..	..	0.5
19	..	..	..	..	..	..	..	..	..	..	1.0	..	..	..	..	..	..	..	..	..	0.2	0.2	..	..	0.8	..	..	..	..	0.5
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	0.2	..	0.7	..	..	..	..	0.4
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	0.1	..	..	..	0.9	..
22	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	1.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.7	..	..	..	0.1	..
24	..	..	1.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	0.3

TABLE XV - TOTAL RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR M A Y, 1942

RIVER SYSTEMS	STATIONS	Approximate Altitude in feet	Total Fall		Normal in Inches	Number of Days
			Inches	Millimetres		
1	Mare Seche	20	0.51	13.0	5.52	5
	St Antoine	50	1.53	38.9	4.41	6
	Bel Mont	50	1.37	34.8	4.27	3
	Poudre d'Or	20	1.33	33.8	4.22	3
	Mon Loisir S.E.	300	1.06	26.9	5.61	9
	Forbach	300	1.36	34.5	4.63	4
	Couroupa	...	0.00	00.0	7.08	..
	Labourdonnais	290	.75	19.0	4.90	3
	Mapou Water Works Office	...	.99	25.1	...	4
	Beau Sejour	300	1.27	32.3	6.13	5
	Mont Piton	650	.91	23.1	5.65	6
	Mon Choix	700	.79	20.1	5.18	5
	Antoinette	640	1.72	43.7	6.13	7
	Mon Song4	620	1.46	37.1	6.29	9
	Botanical Gardens	325	0.70	17.9	4.57	10
	The Observatory	179	0.69	17.5	3.92	13
	Solitude	175	0.39	9.9	3.62	3
	St Andre Cour	90	...	...	...	..
	La Nicoliere	[illegible]	1.79	45.5	10.30	15
	California	...	2.05	52.1	6.06	10
	Australia	...	1.64	41.7	...	16
2 & 3	Union Regnard (Flacq S.E.)	600	3.41	86.6	7.66	11
	Constance d'Arifat (L.G.)	[illegible]	1.98	50.3	5.90	9
	Rich Fund	600	3.47	85.1	8.61	15
	La Joffrette	[illegible]	3.25	82.6	...	14
	Belle Vue Allendy	...	1.19	30.2	7.52	8
4	Sans Souci	[illegible]	6.57	[illegible]6.9	13.54	21
	Beau Champ (G.R.S.E.)	40	2.27	[illegible]7.7	5.79	19
	Olivia	[illegible]	3.74	95.0	10.30	19
	Trois Ilots	...	...	...	...	..
	Belle Rive	[illegible]	5.60	142.2	13.65	20
	Sebastopol	700	...	...	...	..
	Bonne Veine	[illegible]	4.62	117.3	10.27	22
5	Rose Belle	850	8.19	208.0	14.83	23
	New Grove	[illegible]	7.04	178.8	...	26
	Mon Tresor	...	9.34	237.2	...	16
	Mon Desert Carie	[illegible]	4.45	113.0	7.10	12
	Ferney	20	5.13	130.3	9.45	16
	Sauveterre	[illegible]	2.59	65.8	...	10
	Tivoli	[illegible]	9.02	229.1	13.67	24
	La Flora	1350	7.84	199.1	14.06	20
	Riche Bois	650	5.71	145.0	8.92	15
6	Britannia S.E.	[illegible]	6.59	167.4	10.55	19
	St Aubin	[illegible]	2.85	72.4	6.75	14
	Savannah Mill	200	1.99	50.5	7.87	10
	Colmar	400	5.98	151.9	8.30	17
	Union S.E.	...	4.57	116.1	7.17	13
	Fontenelle	320	3.33	84.6	7.24	13
	Choisy	200	1.93	49.0	6.20	14
	Beau Bois	...	7.98	202.7	9.00	18
	Bel Air	...	2.92	74.2	6.74	6
	St Felix	...	3.10	78.7	...	5
7, 8, 9 & 10	Bel Ombre	m40	3.66	98.0	6.16	14
	Beau Champ (B. du Cap)	70	3.89	98.8	6.03	15
	Frederica	...	3.86	98.0	...	13
	Pierrefonds	...	0.91	23.1	4.43	10
	Ste Marie	...	4.34	110.2	...	14
	Hussonnia	...	...	...	...	..
11	Curepipe Gardens	1840	6.69	170.0	9.58	21
	Mare aux Vacoas (G.Emd)	1850	8.77	222.8	13.23	25
	Mare aux Vacoas Arnaud	1830	11.77	299.0	12.74	24
	La Marie Filter Beds	1700	4.60	116.8	7.89	24
	Sophie	...	...	...	...	..
	Reunion	1420	3.20	81.3	6.28	17
	Aerological Station	1393	3.71	76.5	7.78	24
	Phoenix	...	1.85	47.0	5.30	4
	Quatre Bornes	...	0.83	21.1	...	8
12	Quatre Bornes (Board)	1090	.30	7.6	...	2
	Le Reduit Dep. of Agric.	1000	1.14	29.0	3.62	25
	Alma	1450	3.98	101.1	10.15	16
	Bagatelle	1250	2.78	70.6	5.31	12
	Highlands	1300	2.68	68.1	6.11	14
	Trianon	950	1.16	29.5	4.00	10
	Val Ory	1100	...	...	4.50	..
	Bassin	...	.72	18.3	4.90	[illegible]
	Hermitage	1450	4.03	102.4	9.65	14
	Ebene	...	.88	22.4	...	9
	Bega	...	.94	23.9	...	9
	Mon Reve	...	3.24	82.3	...	9
	Mont Pevril	...	1.03	26.2	...	9
	Minissy	1150	2.33	59.2	5.30	9
	Plaisance	...	3.96	100.6	...	8
	La Ferme	350	1.20	30.5	3.30	7
13	Line Barracks	...	0.34	8.5	...	8
	Richelieu Tobacco Res. Stn.	...	0.26	6.6	...	5

TABLE XVI - PILOT [illegible] SERVATIONS FOR THE MONTH OF MAY, 1942

Date	Time	Surface		250 metres		500 metres		750 metres		1,000 metres		1,500 metres		2,000 metres		2,500 metres		3,000 metres		3,500 metres		4,000 metres	
		Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity
		°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.
1	09.39	196	4.3	186	2.8	165	3.1	086	2.6	147	[illegible].6	150	4.5										
2	08.08	146	0.7	180	1.7	139	1.7	151	3.7	165	[illegible].1	039	1.3										
3	09.00	114	7.4	123	7.4	112	8.2	131	6.4	128	10.8	124	2.1										
4	09.4[illegible]	126	9.2	114	5.9	119	7.0	126	2.0	244	1.1	283	1.8	264	4.0	163	2.1	233	4.3	262	8.9		
5	0[illegible]	101	3.6	107	3.4	105	6.3	096	7.2	094	8.9	091	8.9	100	7.5								
6	09.[illegible]	276	3.9	286	2.2	132	1.3	126	3.1	115	5.2	115	8.1										
7	09.07	084	2.7	080	4.0	060	3.3	063	2.9	054	2.5	063	1.8	054	1.8								
8	09.30	092	3.1	085	4.9	090	3.3	072	4.1	081	7.4	087	3.6	073	1.0	253	4.7	278	5.8				
9	09.02	107	7.3	102	6.1	092	9.4	093	12.8	091	17.0	082	10.4	069	5.6	100	5.9						
10	09.12	073	8.0	073	11.3	072	[illegible].9	077	14.0	070	12.3	069	12.1										
11	09.26	067	0.3	349	1.0	344	3.2	353	4.4	102	5.5	008	6.9	017	6.8	011	8.3						
12	09.10	065	6.0	093	6.6	097	11.4	081	15.5	069	7.2	060	13.9	062	10.9	059	8.6						
13	09.09	079	6.0	095	3.7	080	9.5	077	9.7	074	8.4	062	5.2	040	5.7								
14	09.28	167	5.4	178	6.2	172	8.6	185	5.6	196	5.5	192	6.6										
15	09.10	170	10.1	168	9.7	174	7.4	156	3.5	154	8.1	165	20.4	177	6.8								
16	09.30	087	3.9	090	4.2	098	4.7	108	5.7	193	4.0	152	11.3	145	10.8								
17	09.29	153	6.4	145	5.9	152	5.3	143	4.6	135	3.1	116	5.0	123	9.4								
18	09.35	250	4.7	233	440	203	1.8	122	0.9	222	0.6	201	2.2										
19	09.10	168	3.2	210	2.8	178	3.7	162	10.0	162	20.2	181	6.4										
20	09.05	108	5.9	154	5.3	130	8.3	146	7.7	135	11.9	137	15.0	133	9.2								
21	09.54	140	3.4	141	2.8	146	4.2	145	6.3	140	7.8	141	6.3	127	5.6								
22	09.00	122	5.1	126	6.2	129	6.7	111	5.7	097	4.1	112	2.7	128	5.3	130	4.7	216	1.3				
23	0[illegible].19	107	4.8	131	8.0	143	5.0	132	5.1	123	2.7	130	3.1	097	553								
24	0[illegible].00	127	7.5	135	7.6	127	5.3	130	3.5	135	2.3	048	1.6	291	1.9	230	3.4	236	2.9				
25	08.48	124	13.8	126	15.6	123	16.0	119	12.6	121	14.8	156	13.8										
26	09.07	085	25.6	110	11.3	110	26.0	097	6.1	103	8.4	102	39.4	116	1[illegible].3	099	13.1						
27	09.03	109	15.7	105	9.9	100	11.8	095	13.2	097	23.6	103	14.1	107	15.6								
28	09.03	080	8.5	091	11.1	088	19.9	077	15.1	078	14.3	081	19.2	073	14.3	089	7.2	081	14.1				
29	08.55	094	10.4	091	8.4	087	10.6	091	13.9	088	22.1	088	7.8										
30	09.00	094	9.2	081	8.8	101	12.2	104	15.1	107	11.1	114	7.3	102	8.9	209	2.1	233	5.0				
31	09.12	108	21.1	109	21.3	126	07.8	104	13.7	109	8.4	111	13.9	135	8.5								

MAURITIUS
ROYAL ALFRED OBSERVATORY

LATITUDE 20°51' 39"S., - LONGITUDE 3h 50m 12.6"

RESULTS
OF
MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

JUNE, 1942

N. R.Mc CURDY, B.Sc. F.R. MET.SOC.

DIRECTOR

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E.G.DAVY, O.B.E., B.Sc., F.S.S.

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TABLE I - RESULTS OF MAGNETICAL OBSERVATIONS MADE DURING THE MONTH OF JUNE, 19[illegible]

Month and Day	Mean Declination (West)	Mean Horizontal Force (C.G.S. Units)	Mean Vertical Force (C.G.S. Units)	Daily Range: Declination	Daily Range: Horizontal Force (Unit γ)	Daily Range: Vertical Force (Unit γ)
JUNE	° ′					
1	14° 19.2	.22451	.29963	3.0	42	21
2	19.4	452	960	4.0	22	16
3	[illegible]	455	960	7.2	73	25
4	19.7	442	965	3.5	24	18
5	19.4	445	967	4.0	41	8
6	19.6	449	963	4.0	26	10
7	19.4	447	967	2.8	32	10
8	19.4	451	963	4.0	32	13
9	19.6	449	961	4.0	14	17
10	19.4	455	961	2.5	22	20
11	20.0	451	961	4.2	93	26
12	19.7	428	967	5.0	34	19
13	19.8	438	969	4.0	35	11
14	19.3	437	968	4.5	43	9
15	19.5	...	966	3.0	..	12
16	19.7	440	967	3.3	22	10
17	19.5	439	964	3.0	34	19
18	20.0	441	965	4.5	30	15
19	...	429	965	...	77	29
20	19.8	419	971	4.5	74	14
21	20.1	426	967	4.0	28	17
22	20.0	432	965	4.2	29	13
23	20.6	446	959	4.3	60	26
24	19.9	432	964	4.5	32	16
25	19.8	434	963	4.0	27	14
26	20.2	434	962	3.5	30	21
27	20.6	434	...	4.4	62	..
28	20.0	441	...	3.4	32	..
29	20.2	433	961	5.5	41	23
30	19.3	430	964	6.5	40	23
Mean	14° 19.73	.22440	.29964	4.11	39.7	17.3

Description of the Principal Magnetic Disturbances

Horizontal Force : 1st Very slightly disturbed. 3rd slightly disturbed during second half. 5th and 6th slightly disturbed in parts. 11th beginning at 4h of a moderately disturbed period ending on 15th. On 11th minor irregular features with small pulsations superposed. Rest of period mainly irregular features of small importance. 16th short slight disturbance between 20h and 24h. 18h Very slightly disturbed in parts. 19th second half and 20th : moderately disturbed; minor irregular features. 23rd slightly disturbed during second half. 24th : very slightly disturbed. 28th second half 29th and 30th very slightly moderately in parts.

T = .37[illegible]5 : Mean Dip = 53° 10.24′ : X = .21743 : Y = -.05547 : Z = .29964

TABLE II - RESULTS OF ABSOLUTE DETERMINATIONS OF THE MAGNETIC ELEMENTS DURING THE MONTH OF JUNE, 1942

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d. h. m.	° ′	d. h. m.		d. h. m.	° ′	
5.13.22	14.18.1	1.11.44	.224[illegible]5	5.13.36	53.10.37	.29963
12.14.07	14.18.6	3. 9.39	.22471	13.10.37	53.10.50	.29973
19.14.12	14.18.0	8.12.28	.22463	16.13.17	53.09.69	.22965
		10.11.49	.22461	19.14.22	53.09.69	.29955
		18.12.03	.22447			
		22.12.54	.22443			
		25.11.11	.22434			
		29.12.04	.22434			

TABLE III - MAGNETIC DECLINATION (WEST) AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

JUNE, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
	14 +																
Midnight	19.5	19.5	19.5	19.7	19.5	19.7	19.5	19.5	19.7	20.0	19.7	22.0	20.3	21.5	20.0	19.7	Midnight
1	[illegible]	19.3	19.5	19.5	19.5	19.5	19.5	19.5	20.0	20.0	19.7	20.5	20.0	20.0	19.7	19.7	1
2	19.5	19.3	19.3	19.0	19.5	19.7	19.5	19.5	19.7	19.7	19.7	20.0	20.0	20.3	19.5	19.[illegible]	2
3	19.7	19.5	19.5	19.7	19.5	19.7	19.3	19.5	19.7	19.7	19.7	19.5	19.7	17.0	19.7	19.7	3
4	19.0	19.5	19.5	19.6	19.0	19.0	19.0	19.3	19.5	19.7	19.0	18.0	19.5	18.5	19.7	19.7	4
5	19.0	19.7	19.7	18.5	19.3	19.0	18.5	19.0	19.3	19.7	19.0	19.0	19.5	19.0	20.0	19.3	5
6	19.0	19.5	19.5	19.0	19.0	19.5	18.3	18.3	19.0	19.5	19.0	17.5	17.0	19.0	19.5	19.0	6
7	17.7	18.5	18.0	18.3	17.7	18.0	17.7	18.0	18.0	18.0	18.0	17.0	17.3	17.5	18.3	17.7	7
8	18.0	19.0	18.0	19.7	17.7	18.5	18.5	18.5	18.5	17.8	17.8	17.3	18.0	17.3	19.0	18.0	8
9	19.5	20.0	20.0	20.7	19.5	20.0	19.7	19.7	20.0	19.0	20.0	19.5	19.5	18.0	19.5	19.0	9
10	19.7	20.0	20.3	21.5	20.5	20.7	20.0	20.7	21.0	20.0	22.0	20.5	20.5	18.0	19.7	21.0	10
11	19.5	20.5	20.0	21.5	21.3	21.5	20.5	21.0	21.3	20.3	21.7	20.0	21.0	19.5	19.5	20.5	11
Noon	19.0	20.3	19.0	21.0	20.7	20.7	20.0	20.7	21.0	20.0	21.5	20.0	20.0	19.0	18.7	19.7	Noon
13	19.0	19.7	16.5	20.0	19.0	19.7	19.5	20.5	20.0	19.5	20.3	19.5	19.7	18.5	18.5	19.5	13
14	17.7	18.0	14.5	18.5	17.5	19.0	18.7	19.7	19.0	18.3	19.5	18.7	18.7	17.8	18.0	19.5	14
15	[illegible]	16.5	16.0	18.0	17.3	17.5	18.0	17.5	17.3	18.0	18.0	18.0	19.0	18.0	17.7	18.5	15
16	17.4	17.5	17.5	18.4	18.0	18.0	17.8	17.0	17.3	18.0	18.5	19.0	19.0	19.0	18.0	18.5	16
17	19.7	19.0	20.0	19.0	19.7	19.5	19.5	18.5	19.5	19.7	[illegible]	20.0	20.0	21.0	19.7	20.0	17
18	20.3	20.3	20.7	20.0	20.0	20.3	20.0	19.7	20.0	20.0	20.5	[illegible]	[illegible]	20.7	20.7	20.7	18
19	[illegible]	20.5	21.3	20.3	20.3	20.5	20.3	20.0	20.0	20.0	[illegible]	[illegible]	[illegible]	21.0	20.7	21.0	19
20	20.5	20.5	20.7	20.5	20.5	20.7	20.5	20.0	20.3	20.0	[illegible]	[illegible]	[illegible]	21.0	20.7	21.0	20
21	[illegible]	20.3	21.7	20.3	21.0	20.0	20.5	20.3	20.3	20.0	21.5	[illegible]	[illegible]	20.7	20.5	21.0	21
22	20.0	20.0	20.5	20.0	20.3	20.3	20.3	20.0	20.0	20.0	21.0	21.[illegible]	21.0	20.3	20.5	20.7	22
23	19.7	19.7	20.3	20.0	20.0	19.7	20.0	20.0	20.3	20.0	22.0	[illegible]	[illegible]	20.7	20.0	20.3	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Me[illegible]		Hour \ Day
	14 +																
Midnight	20.3	19.7	20.0	21.3	20:5	20.7	20.7	21.0	20.0	20.0	20.0	20.0	20.0	20.5	20.1		Midnight
1	20.2	19.7	19.7	21.0	21.0	20.3	20.0	20.3	20.0	20.3	19.7	20.0	20.0	20.0	19.0		1
2	20.0	20.0	19.7	21.0	20.7	20.0	20.0	20.0	19.5	20.0	20.0	20.3	20.3	19.5	19.8		2
3	20.0	19.5	19.5	20.7	20.0	20.0	19.7	19.7	18.5	20.3	20.0	20.3	20.0	19.7	19.6		3
4	20.0	20.5		20.0	20.0	19.7	19.7	19.5	18.7	20.0	19.7	20.0	19.0	20.0	19.5		4
5	19.7	20.0		19.7	20.0	19.7	19.5	18.0	19.0	20.0	19.7	20.0	18.0	[illegible]	19.2		5
6	19.5	18.7		19.5	19.5	19.7	19.5	18.0	19.5	19.5	19.5	20.0	17.5	18.5	19.0		6
7	18.5	17.7		18.0	19.7	19.7	18.7	17.5	18.5	19.0	18.5	19.5	17.5	17.0	18.1		7
8	19.0	17.5		17.0	20.0	20.0	19.3	17.0	17.7	18.7	19.0	20.0	17.7	16.5	18.3		8
9	17.7	19.0		17.5	20.5	20.5	20.5	20.0	19.0	20.0	20.0	21.5	19.5	16.7	19.5		9
10	18.5	20.5	21.0	19.0	20.7	21.5	21.5	21.0	19.7	21.5	21.5	22.7	20.5	17.0	20.4		10
11	19.5	21.3	21.0	20.0	20.3	21.0	22.5	21.3	21.7	21.5	21.7	21.5	21.5	17.5	20.7		11
Noon	19.5	22.0	21.0	20.0	20.0	19.5	23.0	21.0	21.0	21.5	21.3	20.7	21.5	20.7	20.5		Noon
13	19.5	21.0	20.0	19.5	19.5	18.0	21.5	20.5	20.0	20.3	19.5	19.0	21.5	19.5	19.6		13
14	[illegible]	20.7	[illegible]	[illegible]	18.0	17.5	19.5	19.3	18.7	19.0	19.0	19.0	20.0	18.5	18.6		14
15	18.0	19.5	17.5	17.5	17.5	17.3	18.7	18.7	18.7	18.0	18.3	18.3	19.0	17.7	18.0		15
16	18.0	18.5	18.0	17.0	17.7	17.7	19.0	19.0	19.0	18.7	18.7	19.0	19.0	18.3	18.2		16
17	19.0	20.0	20.0	20.0	19.7	19.5	20.7	20.3	20.3	20.3	20.0	20.5	20.5	20.0	19.9		17
18	20.0	21.0	20.5	21.0	20.7	20.7	21.0	21.0	21.0	21.0	21.0	21.5	21.5	21.5	20.6		18
19	[illegible]	21.0	21.5	21.3	21.0	21.0	21.5	21.5	21.0	21.0	21.0	21.7	21.7	21.7	20.9		19
20	20.7	21.0	21.0	21.5	21.5	21.7	21.0	20.7	21.0	21.0	22.0	21.0	21.5	23.0	21.0		20
21	[illegible]	21.0	22.3	21.5	21.3	21.5	21.7	21.0	21.0	20.7	21.0	22.3	21.5	20.7	20.9		21
22	20.5	20:3	21.7	21.5	21.0	21.3	22.0	21.0	20.7	21.3	20.5	22.0	23.0	20.5	20.8		22
23	20.0	20.3	21.7	21.5	20.5	21.0	21.7	20.7	20.5	20.7	20.3	21.5	21.7	21.0	20.5		23

TABLE IV - MAGNETIC HORIZONTAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature in the Magnet Chamber)

JUNE, 1942

.22000 + (C.G.S. UNIT)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	432	445	445	426	441	450	440	445	447	447	455	420	425	410		429	Midnight
1	437	450	446	435	440	450	450	446	446	447	457	415	432	430		429	1
2	440	451	447	440	440	449	442	447	443	448	456	416	431	423		430	2
3	440	452	449	427	441	448	447	447	447	449	457	427	439	438		434	3
4	443	454	451	426	447	447	452	449	448	450	460	427	440	442		437	4
5	443	456	452	443	451	452	457	451	450	452	465	430	441	440		431	5
6	449	459	456	443	450	455	457	453	451	453	464	440	440	450		442	6
7	453	462	460	445	457	455	461	462	454	473	436	451	449	449		444	7
8	457	465	470	449	462	463	460	463	455	461	475	435	450	450		447	8
9	469	465	473	445	467	462	462	463	455	461	477	435	451	453		451	9
10	474	463	477	442	469	457	462	464	453	462	474	439	452	442	450	451	10
11	471	455	485	442	452	455	456	470	450	465	466	447	442	447	450	450	11
Noon	470	445	481	445	441	459	467	451	449	466	470	440	440	440	451	449	Noon
13	460	443	485	444	434	457	464	457	451	469	483	447	439	436	450	448	13
14	458	450	484	449	435	452	440	450	451	462	478	433	433	431	447	442	14
15	457	450	488	450	431	440	432	447	444	452	462	420	445	433	436	435	15
16	450	448	470	446	428	437	430	443	441	449	463	421	447	430	432	430	16
17	449	449	453	447	435	440	438	438	445	451	455	424	449	434	436	435	17
18	450	448	442	448	439	441	444	442	443	454	442	423	446	435	437	439	18
19	449	450	430	449	436	440	443	443	451	452	413	421	441	434	434	441	19
20	447	449	415	447	438	440	443	445	450	451	410	414	433	432	433	441	20
21	441	447	425	443	443	440	442	444	450	452	390	415	425	435	430	445	21
22	442	446	423	439	445	441	441	444	450	452	391	418	427	431	428	447	22
23	441	443	423	441	449	441	442	445	449	453	395	420	417	426	427	432	23

.22000 + (C.G.S. UNIT)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Mean	Day / Hour
Midnight	439	431	432	383	412	424	429	413	431	427	427	438	419	419		430	Midnight
1	433	432	432	390	415	424	432	422	431	425	435	438	419	422		433	1
2	434	435	434	415	417	425	433	427	433	423	434	439	428	428		435	2
3	437	438	437	409	419	426	435	426	435	427	436	440	433	432		437	3
4	439	435	439	415	421	427	437	427	443	429	435	445	439	430		409	4
5	444	440	440	420	422	431	442	435	444	432	435	448	442	450		443	5
6	450	451	442	429	433	449	441	442	434	437	442	451	441	448		446	6
7	450	455	447	427	431	437	453	450	438	437	443	451	443	450		449	7
8	443	457	450	435	431	442	457	443	444	441	446	450	447	442		451	8
9	450	458	455	453	432	449	463	443	444	450	450	450	442	450		444	9
10	455	461	456	457	438	447	467	445	440	451	452	451	452	453		455	10
11	458	[illegible]	453	451	440	440	465	443	441	451	459	450	444	443		453	11
Noon	453	445	450	440	433	432	471	435	443	450	452	442	442	434		450	Noon
13	445	457	443	425	432	433	463	428	448	449	453	445	431	427		447	13
14	439	437	442	410	427	431	460	429	460	441	446	448	425	432		443	14
15	433	435	445	400	420	431	449	431	434	437	437	449	424	430		440	15
16	431	436	435	403	421	420	452	431	428	431	435	427	431	423		436	16
17	424	440	417	410	425	431	455	432	427	430	437	429	432	429		437	17
18	425	440	410	412	426	432	454	428	427	428	440	422	435	423		436	18
19	430	437	405	413	425	432	445	431	423	426	437	405	435	415		433	19
20	429	435	393	413	424	431	442	425	420	425	437	393	432	413		430	20
21	428	434	405	415	423	431	428	423	421	439	390	425	412	421		429	21
22	429	432	379	412	423	432	412	427	423	423	439	405	422	412		428	22
23	433	435	381	411	424	431	407	429	421	427	439	409	410	417		427	23

TABLE V - MAGNETIC VERTICAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature in the Magnet Chamber)

JUNE, 1942

29000 + (C.G.S. UNIT)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	970	967	966	968	967	966	966	966	963	961	960	967	968	970	967	970	Midnight
1	968	964	966	968	967	965	965	965	963	961	960	966	966	965	967	968	1
2	967	963	965	967	967	965	965	965	963	960	960	966	965	967	966	967	2
3	967	963	964	966	967	964	965	964	963	961	961	965	965	963	966	966	3
4	966	962	964	966	966	964	964	964	963	961	961	964	965	965	967	965	4
5	966	962	963	965	965	964	963	965	963	962	960	966	966	966	967	965	5
6	966	963	962	964	964	964	963	964	962	962	961	966	966	967	967	965	6
7	964	961	958	963	962	962	962	963	961	962	959	965	966	963	966	964	7
8	965	963	959	967	962	963	964	964	962	965	961	968	968	965	969	967	8
9	967	966	962	971	966	963	967	966	964	967	964	973	972	[illegible]	973	972	9
10	964	964	962	972	968	963	967	965	966	970	967	974	976	972	972	970	10
11	960	958	957	971	970	960	967	963	965	965	962	971	976	971	969	968	11
Noon	953	952	950	969	970	960	967	962	962	958	956	965	973	971	965	966	Noon
13	953	953	948	965	967	956	967	958	960	950	949	961	973	967	959	964	13
14	952	945	944	958	963	957	967	957	955	951	945	955	970	963	953	962	14
15	950	944	947	955	962	957	968	951	950	952	947	957	967	966	951	962	15
16	949	951	953	954	967	957	968	953	949	955	953	962	965	967	957	962	16
17	959	959	960	958	970	964	972	963	957	963	957	969	967	971	965	967	17
18	964	963	964	963	970	965	971	966	962	966	963	971	969	972	969	970	18
19	965	965	966	963	969	966	970	966	962	965	967	971	970	971	969	970	19
20	966	966	967	964	969	965	968	966	962	965	967	972	971	972	969	970	20
21	966	966	969	965	968	965	967	965	962	963	971	971	972	969	969	970	21
22	967	966	967	966	967	966	967	965	962	963	970	971	970	970	970	969	22
23	967	966	968	967	967	966	967	965	962	962	971	968	970	971	970	969	23

29000 + (C.G.S. UNIT)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Mean		Hour \ Day
Midnight	967	969	968	975	973	970	965	964	962	963	961		963	963	967		Midnight
1	967	968	967	974	972	970	965	964	962	962	960		961	962	966		1
2	967	967	967	971	971	970	965	963	962	962	960		962	960	965		2
3	966	965	966	969	969	969	964	963	961	963	962		961	960	964		3
4	965	965	966	968	969	969	964	964	962	963	962		961	960	964		4
5	964	965	965	967	968	968	964	964	961	963	962		962	959	964		5
6	964	965	964	967	968	968	963	964	963	963	963		962	960	964		6
7	963	962	963	963	967	967	962	962	962	962	962		962	958	963		7
8	967	963	964	963	968	967	962	963	963	965	964		964	962	964		8
9	968	968	965	968	969	966	963	969	965	968	968		969	962	967		9
10	967	971	965	972	970	965	962	970	965	967		968	969	974	968		
11	963	968	966	975	969	960	962	969	966	966		957	967	976	966		
Noon	960	966	965	977	968	957	958	963	963	964		952	958	973	963		
13	954	967	959	973	965	957	943	954	957	955		945	948	966	958		
14	951	965	953	969	957	957	939	956	953	947		[illegible]	946	955	955		14
15	955	960	947	966	956	957	944	958	955	952		946	946	953	955		15
16	956	956	949	968	962	960	952	964	959	958		951	950	960	957		16
17	963	960	960	973	967	965	958	967	964	964		965	961	958	963		17
18	967	964	966	973	969	967	961	968	967	966		966	963	967	967		18
19	968	965	971	973	969	967	961	968	967	966		967	964	969	967		19
20	969	966	971	973	969	967	961	966	967	966		970	965	971	968		20
21	970	967	973	973	969	967	962	966	966	965		972	965	969	967		21
22	970	967	974	973	969	967	963	966	965	963		969	967	969	967		22
23	970	969	976	973	969	967	964	964	964	962		967	967	968	967		23

TABLE VI - RESULTS OF METEOROLOGICAL OBSERVATIONS MADE AT THE AEROLOGICAL STATION, VACOAS (424.5 metres above mean sea level) DURING THE MONTH OF JUNE, 1942

Month and Day 1942	Observations at 10 a.m.									Temperature of the Air							Rainfall			
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat. 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0 - 10)	3h	9h	15h	21h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Casella Pluviograph	Duration	Duration of Bright Sunshine	Percentage of Possible Sunshine
JUNE	mbs	°C	°C	°C	%	mbs	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms	mins	hrs	%
1	973.5	20.2	1.5	17.8	86	20.4	90	5.2	7	17.7	20.0	21.9	[illegible]	22.7	17.0	5.7	5.5	60	8.1	74
2	972.1	20.8	2.1	17.4	81	19.9	100	7.2	6	17.6	20.2	21.2	19.1	22.7	17.4	5.3	3.1	100	8.8	80
3	971.5	21.6	2.6	17.4	77	19.9	90	7.4	3	18.5	21.0	21.6	19.2	23.3	18.1	5.2	3.0	155	9.5	87
4	972.1	20.4	3.5	14.5	69	16.5	95	7.6	5	18.3	20.1	21.0	18.6	22.3	[illegible]	5.0	2.3	50	9.0	82
5	972.2	20.3	2.1	16.8	81	19.1	125	7.5	6	18.0	19.7	20:2	17.3	21.7	17.4	4.3	5.3	205	9.9	90
6	971.6	18.2	1.1	16.3	89	18.5	105	5.8	7	15.0	17.8	20.2	17.5	22.0	[illegible]	[illegible]	1.2	60	8.3	77
7	971.4	20.1	2.0	16.8	82	19.1	80	4.5	5	16.5	19.6	19.8	18.0	22.0	16.5	[illegible]	3.3	105	5.9	55
8	970.3	21.0	1.5	18.6	86	21.4	50	3.1	8	17.9	20.1	23.1	17.8	24.6	17.6	7.0	1.6	35	3.4	32
9	968.3	20.4	2.5	16.2	77	18.4	180	1.8	6	17.1	19.1	21.9	16.9	23.1	17.0	6.1	1.3	20	8.3	77
10	968.1	20.5	2.8	15.9	75	18.1	125	3.6	6	15.5	19.3	20.1	16.6	22.4	14.8	7.6	...	..	7.3	67
11	970.5	19.2	3.6	12.8	67	14.8	85	1.3	8	14.1	18.7	21.0	18.2	22.3	13.7	8.6	...	..	4.9	45
12	973.4	18.0	1.2	16.0	88	18.2	120	2.2	8	16.4	17.3	20.8	16.7	21.7	15.5	6.2	15.	75	6.8	63
13	972.5	19.8	3.3	14.2	70	16.2	125	3.3	5	16.1	19.4	20.1	14.4	22.2	15.8	6.4	0.4	35	9.3	86
14	969.1	21.3	3.9	14.7	66	16.7	CALM		2	15.1	20.8	21.8	16.4	24.9	13.6	11.3	0.3	10	6.9	64
15	970.0	20.7	3.5	14.8	69	16.8	CALM		2	14.5	19.8	21.6	17.5	23.8	13.3	10.5	...	..	5.5	51
16	971.1	19.7	3.0	14.6	73	16.6	150	3.4	2	16.7	19.0	20.1	16.8	22.4	16.0	8.4	...	..	10.6	98
17	970.6	20.5	2.6	16.2	77	18.4	115	5.4	3	16.6	19.5	20.5	17.5	21.3	16.4	4.9	0.5	35	6.1	56
18	971.5	18.2	0.6	17.2	94	19.6	90	4.5	9	17.0	19.0	20.2	18.3	22.4	16.2	6.2	0.5	30	5.8	54
19	972.2	20.7	2.6	16.4	77	18.7	120	8.9	7	17.8	20.0	21.1	18.6	22.1	17.5	4.6	15.6	265	8.1	75
20	972.9	20.7	2.0	17.5	90	20.0	105	8.1	9	18.6	19.0	19.2	17.1	21.4	18.5	2.9	6.7	125	6.4	59
21	972.7	17.9	0.7	16.7	93	19.0	95	6.7	9	17.0	17.3	18.6	17.0	20.3	16.8	3.5	13.3	290	2.4	22
22	970.9	20.1	2.2	16.5	80	18.8	90	7.6	5	16.3	19.5	21.0	18.1	22.4	15.9	6.5	1.1	40	9.4	87
23	970.2	20.7	2.1	173	81	19.8	115	5.8	7	17.6	19.8	20.6	18.2	22.1	17.0	5.1	1.0	25	7.5	69
24	972.3	19.2	2.0	15.9	82	18.1	125	5.6	7	17.0	19.0	20.9	17.0	22.1	15.8	6.3	...	...	9.4	87
25	972.4	19.7	2.6	15.4	76	17.5	155	4.5	6	16.2	18.9	20.2	16.6	21.8	14.7	7.1	...	..	8.0	83
26	971.2	17.7	2.0	14.3	81	16.3	135	5.4	9	16.4	17.2	18.5	15.0	20.1	16.0	4.1	1.0	35	5.0	46
27	971.9	17.7	2.7	12.9	73	14.9	125	4.9	8	14.8	16.7	17.4	15.2	20.3	14.0	6.3	1.6	60	5.0	46
28	971.6	17.1	1.7	14.2	84	16.2	60	1.8	9	13.4	16.5	19.1	12.4	22.6	12.4	10.2	...	..	3.4	32
28	971.6	17.1	1.7	14.2	84	16.2	60	1.8	9	13.4	16.5	19.1	12.4	22.6	12.4	10.2	...	..	3.4	32
30	969.5	16.7	2.6	12.0	74	14.0	185	2.2	10	14.7	15.9	18.9	14.8	20.8	13.6	7.2	...	..	5.8	54
Mean	971.2	19.6	2.3	15.7	79.0	18.0	...	4.6	6.6	16.4	19.0	20.4	17.0	22.2	15.8	6.4	70.1	1825	6.95	64.0
Average	970.9	19.8	2.1	16.3	80.1	18.5	...	4.6	5.3	...	...	...	...	21.9	15.6	6.3	102.3	...	7.20	65.8
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

EXCESS OF CERTAIN ELEMENTS AT PAMPLEMOUSSES OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	+ 42.3 mbs	Amount of Rain	- 38.5 mms
Temperature of the Air	+ 3.2°C	Duration of Bright Sunshine	+ 19.6 hrs
Vapour Pressure	+ 1.4 mbs	Mean of Maximum Temperatures	+ 2.6°C
Relative Humidity	- 9.2 %	Mean of Minimum Temperatures	+ 1.0°C
Velocity of Wind	- 0.7 m.p.s.	Absolute Minimum Temperatures	+ 1.2°C
Amount of Cllud	- 0.6	Absolute Maximum Temperatures	+ 1.3°C

Greatest Rainfall Intensity at Vacoas : 1.4 mms in 3 mins.

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF JUNE, 1942

Month and Day 1942	Atmospheric Pressure		Temperature of the Air					Excess of Air Temp. over Evaporation Temp.	Temperature of the Dew Point		Relative Humidity (Sat. = 100)		Vapour Pressure	Minimum on the grass	Rainfall		Amount of Evaporation	Mean Amount of Cloud (Scale 0-10)
	Mean	Excess above Average	Daily Maximum	Daily Minimum	Daily Range	Mean	Excess above Average		Mean	Excess above Average	Mean	Excess above Average			Amount recorded by Dines Pluviograph	Duration		
JUNE	mbs	mbs	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C	mms	min.	mms	
1	1015.1	+ 4.2	25.5	18.7	6.8	21.7	- 0.4	2.7	17.2	- [illegible]	75	- 4	19.6	15.9	2.0	55	3.9	3.8
2	1013.7	+ 2.7	26.1	19.0	[illegible].1	22.0	+ 0.8	2.4	18.2	+ 0.7	79	0	20.9	15.2	0.4	45	3.8	6.3
3	1013.0	+ 2.0	26.1	20.9	5.2	22.6	+ 1.4	2.6	18.5	+ 1.0	78	- 1	21.3	19.0	0.6	40	4.4	7.5
4	1013.7	+ 2.5	25.3	19.1	6.2	21.5	+ 0.4	2.3	17.8	+ 0.4	80	+ 1	[illegible]	18.0	1.5	45	3.4	3.9
5	1012.9	+ 1.6	24.9	18.6	6.3	21.3	+ 0.3	2.6	17.0	- 0.3	77	- 2	19.4	17.2	1.4	70	3.3	4.2
6	1012.4	+ 1.0	24.9	16.1	8.8	20.3	- 0.7	2.3	16.5	- 0.6	79	0	18.8	11.2	6.2	100	3.4	4.0
7	1012.0	+ 0.5	25.0	17.7	7.3	20.7	- 0.2	1.8	17.8	+ 0.8	84	+ 6	20.4	13.9	0.3	20	4.4	5.5
8	1010.6	- 1.0	25.9	19.2	6.7	21.8	+ 1.0	1.8	18.9	+ 2.0	84	+ 6	21.8	17.6	2.6	85	3.1	6.9
9	1008.4	- 3.3	25.9	17.5	8.4	20.9	+ 0.1	2.3	17.1	+ 0.2	79	+ 1	19.5	15.0	0.8	60	2.7	2.7
10	1009.2	- 2.6	24.0	14.3	9.7	19.0	- 1.7	2.4	15.0	- 1.8	78	0	17.1	11.0	0.0	..	3.3	3.5
11	1011.9	0.0	24.3	15.1	9.2	20.1	- 0.6	3.3	14.5	- 2.3	70	- 8	16.5	11.9	0.0	..	2.5	6.5
12	1014.2	+ 2.2	25.1	16.4	8.7	20.5	- 0.1	3.0	15.4	- 1.3	73	- 5	17.5	14.7	0.0	..	3.1	4.5
13	1012.4	+ 0.3	24.9	15.7	9.2	19.9	- 0.7	3.1	14.6	- 2.1	72	- 6	16.6	11.6	0.0	..	4.3	2.7
14	1009.6	- 2.6	24.1	15.2	8.9	19.7	- 0.9	2.1	16.2	- 0.5	80	+ 2	18.4	10.8	0.4	20	3.6	4.5
15	1011.0	- 1.3	[illegible].1	15.9	9.2	19.9	- 0.6	2.1	16.4	- 0.2	81	+ 3	18.7	12.0	0.0	..	2.4	2.7
16	1012.1	- 0.3	25.6	17.8	7.8	20.9	+ 0.4	3.2	15.6	- 1.0	72	- 6	17.7	13.6	0.0	..	2.1	2.2
17	1012.0	- 0.5	24.2	17.0	7.2	20.6	+ 0.2	2.2	17.0	+ 0.6	80	+ 2	19.4	12.9	0.3	15	3.5	4.0
18	1013.0	+ 0.4	25.2	16.8	8.4	20.6	+ 0.2	2.1	17.2	+ 0.8	81	+ 3	19.6	12.7	0.2	5	3.1	4.1
19	1014.3	+ 1.5	25.2	18.6	6.6	21.5	+ 1.2	2.3	17.8	+ 1.5	80	+ 2	[illegible]	14.0	2.5	75	3.7	3.6
20	1014.8	+ 1.9	25.1	19.3	5.8	21.8	+ 1.5	2.1	18.5	+ 2.2	82	+ 4	[illegible]	19.3	1.2	55	3.5	4.6
21	1013.5	+ 0.5	23.2	18.8	4.4	20.6	+ 0.3	1.7	17.9	+ 1.6	85	+ 7	20.5	16.9	5.7	100	3.1	4.3
22	1011.6	- 1.5	25.0	18.0	7.0	20.8	+ 0.6	2.3	17.0	+ 0.8	79	+ 1	19.4	14.6	0.7	20	3.0	3.3
23	1011.5	- 1.7	25.0	18.9	6.1	21.1	+ 0.9	2.0	17.9	+ 1.7	82	+ 4	20.5	15.0	3.8	115	3.2	3.6
24	1014.0	+ 0.7	24.9	[illegible].9	9.0	20.1	- 0.1	3.0	15.0	- 1.2	73	- 5	17.1	12.6	0.0	...	3.3	2.6
25	1014.0	+ 0.6	25.1	14.1	11.0	19.7	- 0.5	3.3	14.0	- 2.2	70	- 7	16.0	12.5	0.0	...	4.0	3.8
26	1013.2	- 0.3	23.3	14.7	8.6	18.7	- 1.4	2.9	13.7	- 2.4	73	- 4	15.7	13.1	0.6	25	5.0	5.5
27	1013.0	- 0.5	23.4	13.9	9.5	18.3	- 1.9	2.7	13.6	- 2.5	74	- 3	15.6	11.9	0.2	5	1.7	6.5
[illegible]	1012.1	- 1.5	24.2	13.7	10.5	18.6	- 1.5	3.1	13.2	- 2.9	71	- 6	15.2	10.8	0.2	10	3.0	5.8
29	1010.9	- 3.6	23.7	13.6	10.1	19.0	- 1.1	2.7	14.4	- 1.7	75	- 2	16.4	10.9	0.0	..	3.3	7.4
30	1010.5	- 3.2	23.9	14.9	9.0	18.8	- 1.3	3.5	12.6	- 3.5	67	- 10	14.6	13.5	0.0	..	2.5	4.5
Mean	1012.3	0.0	24.8	16.8	8.0	20.4	- 0.1	2.5	16.2	- 0.4	77.1	- 0.9	18.5	14.0	Sum 21.6	Sum 965	3.3	4.5
Average	1012.3	...	24.4	17.0	7.4	20.5	...	2.4	16.6	...	78.0	...	18.9	13.4	64.9	1174	3.4	4.8
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

General Weather Conditions during the Month of June, 1942

Anticyclonic conditions prevailed except on the 7th - 9th, the 14th and the 29th when the influence of extra tropical depressions well to the south was fairly well marked.

Mean pressure, temperature, humidity, cloudiness, sunshine and wind velocity were all near the normal value. Rainfall was only 49% of the average.

TABLE VII (Cont'd) - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF JUNE, 1942

Month and Day 1942	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the Soil: 10 Feet	Temperature of the Soil: 5 Feet	Temperature of the Soil: 2 Feet	Temperature of the Soil: 12 Inches	WEATHER 0h	3h	6h	9h	12h	15h	18h	21h	24h
JUNE	hrs	%	m.p.s.	m.p.s.	°C	°C	°C	°C									
1	9.8	89	3.4	+ 0.2	25.8	26.0	25.0	24.2		bcro	bc	bcro			bc		bcro
2	[illegible].8	71	3.7	+ 0.4	25.8	26.0	25.0	24.2		bro	bcro		bc			c	cro
3	8.4	76	4.0	+ 0.7	26.0	26.1	24.9	24.1		o	ore	c			bc		bcro
4	9.9	90	3.7	0.4	25.9	26.1	24.9	24.2		bc	b		bcro		bc	bcro	
5	8.8	80	3.8	+ 0.5	25.9	26.1	24.9	24.1			bcro		cro	bc	bc		bo
6	8.3	76	3.4	+ 0.1	25.8	26.0	24.9	23.8		bo	bro	c	bcro	bc	bro	b	bro
7	6.5	60	2.9	- 0.4	25.9	26.0	24.7	23.6		bc	bc	bcro	cro	bc			bcro
8	6.3	58	1.9	- 1.5	25.8	26.0	24.7	23.8	ore	o		c		b			bcro
9	[illegible].8	72	2.0	- 1.4	25.8	25.9	24.7	23.9		bro		bc		bc			bo
10	[illegible].7	52	1.8	- 1.6	25.8	25.9	24.6	23.4		bc	b	bc	c	bc		b	
11	5.2	48	1.8	- 1.6	25.8	25.9	24.6	23.1	b		bc			c			bc
12	6.7	61	2.5	- 0.9	25.8	26.0	24.4	[illegible]		bc		c	bc		b		
13	9.9	91	2.6	- 0.8	25.8	25.9	24.3	[illegible]			b				bc		
14	5.9	54	1.6	- 1.9	25.8	25.9	24.2	[illegible]	b	bcro		bc		c		b	
15	5.9	54	1.9	- 1.6	25.7	25.9	24.1	[illegible]		bo	b		bc			b	
16	8.6	79	3.3	- 0.2	25.8	25.9	24.0	[illegible]		b		bc	c	bc		bo	
17	7.4	68	2.9	- 0.6	25.9	26.0	23.9	22.7		b	bc	cro		bc			b
18	6.7	61	2.8	- 0.7	25.8	25.6	23.8	22.7	b	bc	c		bc	b	bro		b
19	9.8	90	4.4	+ 0.8	25.8	25.6	23.8	22.7		b		bcro	bc		bcro		bro
20	8.9	82	5.2	+ 1.6	25.8	25.6	23.7	22.7	bcro		bc	bcro		bc		b	bro
21	5.8	53	4.4	+ 0.8	25.8	25.6	23.8	22.9	b	bro	bcro	cqeR	bcqoro		bcR		b
22	9.7	89	3.6	0.0	25.7	25.4	23.8	22.8	b	bro		bc			b		
23	9.7	89	3.3	- 0.3	25.7	25.5	23.7	22.9	bcro	bcR	b		bc			b	
24	10.5	96	2.8	- 0.8	25.7	25.4	23.7	22.8	bc	b			bc		b		
25	10.5	96	2.7	- 1.0	25.7	25.4	23.7	22.6			b			bc			c
26	5.4	50	2.6	- 1.1	25.7	25.4	23.6	22.4		bc		cro	c		bc	b	
27	4.1	38	2.6	- 1.1	25.7	25.4	23.5	22.1		c		cro	c		bc		b
28	4.9	45	1.7	- 2.0	25.7	25.3	23.4	21.9		bc		c	bc			b	
29	[illegible].2	48	2.4	1.3	25.7	25.3	23.3	21.9		o		bc		c		bc	
30	[illegible].8	72	2.5	- 1.2	25.7	25.3	23.1	21.9				bc				b	
Mean	7.60	79.6	2.94	- 0.55	25.79	25.75	24.16	23.08									
Average	7.48	68.8	3.49	...	25.51	25.38	23.78	23.08									
Column	19	20	21	22	23	24	25	26	27								

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF JUNE, 1942

Atmospheric Pressure	1016.1 mbs	often on 1st	1006.1 mbs	at 15.00 on 9th
Temperature of the Air	26.1°C at 12.30 & 12.20 on 2nd & 3rd		13.6°C at 0.400 hrs on 29th	
Daily Range of Temperature of the Air	10.5°C	on 28th	5.2°C	on 3rd
Temperature of the Dew Point	20.5°C at 17.00	on 8th	8.1°C	at 15.00 on 28th
Minimum on grass			10.8°C	on 14th & 28th
Relative Humidity	98.7 % at 04.00	on 23rd	[illegible].2 %	at 15.00 on 28th
Vapour Pressure	24.1 mbs at 17.00	on 8th	10.8 mbs	at 15.00 on 28th
Evaporation in24hrs	5.0	on 26th	1.7 mms	on 27th
Wind Velocity	7.1 m.p.s. at 10.00	on 20th	0.6 m.p.s. at 03.00	on 26th
Rainfall in 24 hrs	6.2 mms ending	24.00 hrs	on 6th	
Duration of Sunshine	10.5 hrs	on 24th & 25th	4.1 hrs	on 28th

Mean Day Temperature of Air 22.29°C Average 28.26°C Mean Night Temperature of Air 18.58°C Average 18.74°C

NUMBER OF DAYS OF

Mean Cloud Amount: 0	1 - 3	4 - 6	7 - 9	10	Rainfall: 0.1 - 0.9 mms	1.0 - 4.9 mms	5.0 - 9.9 mms	10.0 - 24.9 mms	25.0 & over mms	Lightning	Thunderstorm
...	7	20	3	...	11	7	2	...	...	...	...

TABLE VIII - ATMOSPHERIC PRESSURE IN MILLIBARS AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level). The cistern of the barometer is 55.2 metres above mean sea level.

JUNE, 1942

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour
Midnight	161	146	132	140	140	130	130	117	100	090	104	140	144	099	105	121	Midnight
1	160	143	132	139	138	129	129	116	095	090	105	139	141	091	106	120	1
2	159	141	129	135	130	121	121	111	090	090	102	132	137	090	101	119	2
3	154	139	123	131	123	116	120	109	082	087	101	131	0	101	112	123	3
4	150	132	121	131	121	115	118	103	081	082	102	131	130	093	101	111	4
5	150	139	122	130	122	117	119	103	081	081	104	132	130	091	103	113	5
6	151	140	126	134	126	121	121	107	085	089	109	139	131	093	109	116	6
7	153	142	130	140	131	131	128	111	091	090	113	149	137	100	111	121	7
8	159	147	132	146	140	134	130	119	097	093	120	151	140	101	116	127	8
9	161	151	139	150	146	140	134	121	100	100	124	158	141	106	120	131	9
10	161	151	138	150	144	137	134	121	099	101	128	159	139	107	120	131	10
11	159	148	132	142	139	131	130	116	091	098	124	153	132	103	117	127	11
Noon	152	141	129	138	131	125	121	109	081	091	121	148	126	101	111	120	Noon
13	144	131	122	131	124	118	111	096	071	086	119	135	117	092	105	113	13
14	139	128	121	126	119	111	111	091	064	081	115	131	110	090	101	110	14
15	139	124	122	124	119	111	108	090	061	080	112	131	110	083	101	110	15
16	140	124	123	128	120	112	109	090	062	081	112	132	109	085	103	110	16
17	141	126	126	129	120	113	110	093	070	085	116	136	110	089	108	115	17
18	143	129	128	131	121	118	111	098	075	090	121	140	111	090	110	119	18
19	151	131	131	138	126	123	112	101	080	091	128	143	113	093	111	124	19
20	1.2	134	135	140	130	129	117	106	083	099	134	149	117	099	117	128	20
21	152	139	140	141	132	131	120	110	080	104	141	151	114	101	120	130	21
22	151	138	141	142	133	132	120	110	091	109	142	150	111	104	121	132	22
23	150	137	141	141	135	131	118	106	091	104	141	148	101	105	121	131	23

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Mean	Hour
Midnight	130	125	144	150	149	130	112	131	151	141	133	133	119	100	128	Midnight
1	128	123	146	150	146	129	111	133	150	138	131	131	115	[illegible]	127	1
2	121	121	143	147	140	121	110	132	145	130	130	126	111	[illegible]	123	2
3	118	117	141	142	136	120	107	131	141	125	127	121	110	093	119	3
4	117	115	141	141	134	120	105	130	140	121	125	121	101	093	118	4
5	116	117	141	142	135	116	104	130	141	121	123	120	101	097	118	5
6	116	121	144	146	136	121	106	133	143	126	128	121	099	101	121	6
7	116	126	147	150	141	127	111	139	145	132	131	124	100	109	126	7
8	121	133	150	154	146	128	120	146	150	140	140	129	101	114	131	8
9	129	141	151	159	148	130	122	150	151	144	146	136	104	120	135	9
10	130	140	151	159	150	126	121	151	151	143	148	136	104	119	135	10
11	127	135	146	153	145	123	120	148	148	141	141	130	101	114	130	11
Noon	121	131	141	150	141	119	115	141	140	136	139	122	097	108	125	Noon
13	111	127	133	142	131	110	109	133	130	127	128	115	091	099	117	13
14	108	121	131	139	126	101	103	131	125	121	120	109	086	093	112	14
15	108	120	130	137	120	100	105	130	125	121	119	106	083	091	111	15
16	111	124	131	140	121	101	106	132	128	121	120	109	090	093	112	16
17	114	129	140	141	125	103	111	138	130	125	124	111	091	093	115	17
18	116	131	141	145	125	109	117	140	132	128	121	112	092	101	118	18
19	121	137	147	150	130	110	124	144	137	131	124	115	096	107	122	19
20	126	141	149	152	132	113	127	150	143	135	129	118	100	112	127	20
21	128	143	150	154	135	114	131	152	145	139	130	120	102	116	129	21
22	127	145	151	153	135	115	130	153	143	138	131	120	102	116	129	22
23	126	146	152	153	132	112	131	153	141	137	131	121	101	120	129	23

TABLE IX - AMOUNT OF CLOUD AT EVERY HOUR OF THE DAY (0-CLEAR SKY, 10 - OVERCAST SKY)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Mean
	JUNE, 1942																														
Midnight	4	3	10	5	5	0	5	10	5	0	1	5	1	3	0	1	0	1	1	2	1	1	2	6	1	4	6	6	10	6	3.5
1	4	2	10	5	5	0	5	10	5	0	1	5	1	3	0	1	0	2	1	2	1	1	2	7	1	3	6	7	10	7	3.6
2	4	2	10	5	5	0	5	10	3	0	1	4	1	3	0	1	0	2	1	4	1	1	4	4	1	5	9	8	10	8	3.7
3	1	2	10	5	3	0	8	10	1	0	1	3	1	3	0	1	1	2	1	5	1	2	4	2	1	8	9	3	10	5	3.4
4	1	6	10	3	3	1	8	10	1	0	1	3	2	5	0	2	1	3	1	4	4	2	4	2	1	8	9	6	5	2	[illegible]
5	1	5	10	2	5	2	3	10	3	0	10	4	2	5	0	3	2	4	1	5	3	4	4	1	1	7	8	9	10	5	[illegible]
6	1	5	10	2	5	7	1	9	2	3	10	4	1	6	0	4	3	5	1	6	3	8	1	0	1	7	8	7	7	6	4.4
7	1	5	10	2	5	7	1	9	2	3	10	6	1	6	0	3	3	7	1	6	3	7	1	1	1	8	8	8	7	6	[illegible]
8	3	6	9	1	7	8	3	9	4	4	7	8	1	4	1	2	6	9	2	5	5	6	3	2	2	9	8	9	3	7	5.1
9	6	6	8	1	9	9	5	9	6	1	4	9	2	2	2	1	9	10	3	5	6	5	4	3	2	9	9	9	0	7	[illegible]
10	6	6	9	3	9	8	6	8	4	6	9	9	3	2	2	0	9	8	4	6	9	5	4	3	2	8	9	8	7	8	[illegible]
11	7	6	7	7	9	8	7	8	4	7	5	9	4	3	5	4	8	8	4	5	9	5	5	3	3	7	8	7	9	7	[illegible]
Noon	7	4	7	5	7	5	7	8	4	9	8	9	3	5	7	5	7	6	5	7	9	5	8	4	3	[illegible]	6	6	10	4	[illegible]
13	6	7	8	5	4	5	8	8	4	9	9	7	3	7	7	9	6	6	5	7	6	5	8	4	4	[illegible]	6	4	9	4	[illegible]
14	5	7	7	6	5	6	9	8	7	9	9	7	3	7	7	9	4	6	6	6	5	5	7	4	5	[illegible]	6	5	9	4	[illegible]
15	3	8	6	7	4	5	8	8	5	8	8	6	4	7	7	5	7	6	6	6	5	6	7	5	5	[illegible]	8	5	9	5	6.3
16	4	8	6	4	4	3	7	5	4	7	8	4	4	7	7	2	6	4	6	5	5	[illegible]	6	3	6	5	6	6	8	4	5.3
17	5	9	6	2	3	2	5	2	2	6	9	2	4	8	7	0	5	2	7	5	5	[illegible]	4	1	6	1	6	7	8	4	4.5
18	6	9	5	1	3	1	3	2	1	1	9	2	4	7	4	0	4	2	7	4	5	1	2	1	4	1	6	6	8	4	3.8
19	4	9	5	3	2	1	4	3	0	1	8	1	4	4	3	0	4	1	7	3	4	1	2	2	5	1	6	6	7	1	3.4
20	3	9	5	5	1	1	4	3	0	1	8	1	4	3	2	0	3	1	6	3	6	1	1	2	7	1	6	1	[illegible]	1	3.2
21	2	9	4	5	0	1	5	3	0	1	7	1	4	3	1	0	3	1	3	3	3	1	0	2	9	3	4	1	5	1	2.8
22	4	7	6	5	0	4	5	3	0	1	6	1	4	3	1	0	3	1	3	3	2	1	0	2	9	1	0	1	4	1	2.7
23	3	7	6	5	0	10	7	3	0	1	6	1	3	3	0	1	2	1	3	3	3	1	2	2	3	1	0	1	4	1	2.9

TABLE X - DURATION OF BRIGHT SUNSHINE AT EVERY HOUR OF THE DAY AS RECORDED BY THE CAMPBELL-STOKES SUNSHINE RECORDER

Hour Ending \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total
	JUNE, 1942																														
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	hrs
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
7	11	10	0	14	0	0	6	0	11	18	0	0	6	0	23	0	6	0	13	0	0	0	5	15	25	0	0	0	20	0	3.0
8	56	60	10	56	30	4	60	0	22	60	30	22	60	37	60	45	60	20	60	17	0	25	60	60	60	50	0	0	60	13	18.2
9	50	60	59	60	45	40	60	2	25	60	58	0	60	60	60	60	55	12	60	60	30	60	60	60	60	17	50	8	60	30	23.1
10	60	54	60	60	40	60	60	60	60	50	20	0	60	60	60	60	30	0	60	60	37	60	60	60	60	8	11	0	46	40	22.6
11	54	50	60	60	50	50	60	60	60	38	55	58	60	40	33	60	40	55	60	60	45	60	60	60	60	20	40	30	45	55	25.6
Noon	60	60	60	60	52	50	60	38	60	13	45	25	60	30	30	60	45	54	60	60	8	60	50	60	60	18	52	40	7	50	23.2
13	60	60	60	60	60	50	60	45	8	30	33	60	22	20	60	45	33	60	60	60	15	60	48	60	55	12	60	57	28	60	23.4
14	60	40	60	60	60	60	4	46	35	5	30	60	56	20	30	7	50	40	60	60	50	60	40	60	60	55	45	40	25	60	22.3
15	60	40	60	57	60	60	25	12	37	8	17	60	60	8	12	45	45	50	60	57	60	60	47	60	60	8	16	60	20	60	21.4
16	60	38	55	60	60	60	10	50	40	25	15	60	46	13	0	60	20	60	60	60	60	60	60	60	60	45	35	10	0	55	21.6
17	55	0	25	50	60	59	0	54	60	45	7	60	59	50	30	37	36	60	32	40	30	60	60	60	60	60	15	0	0	28	19.7
18	2	0	0	0	15	0	0	0	15	16	0	20	12	10	1	17	11	17	0	0	8	20	30	15	15	0	0	0	0	8	13.9
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0

TABLE XI - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the Absolute Scale 244 273)

J U N E, 1942

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	20.3	1.1	19.4	1.4	21.2	1.2	20.6	1.2	20.0	1.0	18.6	2.3	19.0	1.0	20.7	1.6	Midnight
1	20.4	1.2	19.3	1.1	21.3	1.2	20.1	1.1	20.2	0.9	18.1	2.3	19.0	0.9	20.3	0.8	1
2	19.8	1.5	19.1	1.0	21.3	1.1	20.2	1.2	19.9	0.8	17.8	2.2	18.9	1.1	20.0	0.8	2
3	19.1	1.4	19.6	1.3	21.5	1.5	20.2	1.3	20.1	1.0	16.8	2.1	18.5	1.2	19.3	0.6	3
4	18.8	1.5	19.5	1.3	21.0	1.3	20.9	1.9	20.2	1.0	16.7	1.6	18.3	1.0	19.6	0.7	4
5	19.0	1.4	19.4	0.7	20.9	1.2	20.3	2.1	19.9	0.9	16.1	1.2	18.1	1.0	19.6	0.6	5
6	19.1	1.2	19.3	1.1	21.0	1.7	19.9	2.1	20.1	1.0	18.2	1.2	17.9	0.9	20.1	0.8	6
7	20.1	1.8	20.2	1.2	21.2	1.9	19.1	0.9	20.1	1.2	19.0	0.9	18.1	1.0	20.0	0.9	7
8	22.0	2.4	22.0	1.9	23.0	2.8	20.9	1.7	21.2	1.9	19.7	1.1	20.3	1.2	20.2	0.9	8
9	23.6	2.7	23.6	2.9	24.1	3.1	23.2	3.5	23.1	3.1	21.4	2.3	23.0	2.3	22.8	1.7	9
10	24.1	4.1	24.5	3.8	24.7	3.9	24.1	4.8	23.3	3.2	23.3	3.7	22.9	2.4	24.0	2.7	10
11	24.3	4.3	24.3	4.0	24.8	4.3	24.0	4.1	24.0	3.9	22.7	3.4	24.0	3.9	24.9	3.7	11
Noon	25.0	5.0	25.0	4.7	25.0	4.7	24.6	4.6	24.0	3.9	24.0	4.7	24.2	4.2	24.8	3.3	Noon
13	25.3	5.1	25.1	4.5	25.2	4.2	24.5	4.3	23.7	4.5	23.9	4.0	24.1	4.0	25.3	3.6	13
14	25.1	5.4	24.6	4.0	25.1	5.0	24.0	3.8	24.3	5.0	23.3	3.7	23.0	2.2	25.1	3.7	14
15	24.9	5.0	24.6	4.4	24.7	3.8	23.0	2.8	24.0	4.9	24.0	4.2	22.5	2.2	25.0	3.8	15
16	24.2	4.3	23.9	3.6	24.7	4.3	23.1	3.0	23.3	4.5	23.2	3.7	22.0	2.0	25.1	3.5	16
17	23.2	3.4	23.1	2.8	23.3	4.0	22.6	3.3	22.3	4.0	22.1	2.9	21.8	2.7	24.2	2.4	17
18	22.0	2.4	22.1	2.2	22.1	2.4	21.2	2.5	21.1	3.0	20.6	2.4	20.1	1.3	22.7	1.7	18
19	21.1	2.2	22.0	2.0	22.1	2.4	20.3	1.7	20.4	3.2	19.9	1.7	19.7	1.4	21.1	1.2	19
20	20.1	2.4	22.0	2.2	22.0	2.6	20.2	1.2	20.1	3.0	19.7	1.5	19.9	1.2	20.1	1.0	20
21	19.7	2.1	21.7	2.0	21.4	1.5	20.3	1.2	19.2	2.2	19.2	1.1	20.5	1.6	20.0	1.0	21
22	20.0	1.7	21.7	1.6	21.0	1.3	20.1	1.1	19.2	2.3	19.5	1.4	20.2	1.3	19.3	0.8	22
23	20.0	1.7	21.2	1.5	20.8	1.2	20.0	1.2	19.0	2.4	19.1	0.8	20.7	1.7	19.3	0.8	23

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	19.5	0.6	17.5	2.2	17.0	1.9	19.9	2.6	16.7	1.6	16.1	1.2	17.2	1.0	19.4	1.5	night
1	19.1	0.5	16.7	1.8	17.0	1.7	19.0	1.8	17.2	1.3	15.6	1.4	17.1	1.0	19.0	1.8	1
2	19.2	0.5	15.2	1.3	16.4	1.7	18.0	1.7	17.8	1.5	15.9	1.6	16.9	1.0	19.0	1.9	2
3	18.9	0.9	15.1	1.5	15.8	1.8	18.3	1.2	17.9	1.4	17.0	1.0	16.6	1.0	18.2	1.6	3
4	18.1	0.9	15.0	1.2	15.1	1.6	18.8	1.8	18.0	1.3	17.1	0.9	16.2	1.0	18.6	1.7	4
5	18.5	0.7	14.3	1.3	15.3	1.3	19.2	2.1	18.2	1.2	15.9	0.9	16.1	1.0	19.0	2.0	5
6	18.3	0.6	15.0	1.2	16.4	1.3	18.1	1.5	17.6	1.3	15.9	1.2	16.0	1.0	18.6	2.2	6
7	18.2	0.7	16.9	1.2	17.0	1.7	19.1	2.1	17.8	1.7	15.3	1.2	16.0	1.1	18.1	2.0	7
8	20.3	0.5	19.6	1.6	19.2	2.0	20.1	2.0	19.4	2.2	18.3	0.4	18.6	1.3	20.1	2.2	8
9	22.0	1.0	20.1	1.8	21.9	4.8	21.9	3.0	22.0	3.7	22.0	2.9	22.1	2.9	22.2	4.0	9
10	23.4	2.6	22.0	2.8	22.5	5.4	23.0	3.4	23.3	5.2	23.1	3.6	23.1	3.3	23.3	4.5	10
11	24.7	4.6	23.6	4.1	23.5	6.2	24.0	4.8	24.0	6.4	23.3	3.6	23.3	4.0	23.9	4.9	11
Noon	25.9	5.3	23.1	4.1	23.4	5.7	24.0	4.7	24.2	6.4	23.6	3.7	24.2	3.4	25.0	5.7	Noon
13	25.1	4.4	23.0	3.3	24.0	5.9	24.6	6.3	23.5	5.5	23.9	3.9	24.1	3.5	25.2	5.5	13
14	24.6	4.3	23.2	3.9	24.0	5.8	24.3	6.2	24.0	6.4	23.2	3.4	23.9	3.7	23.7	4.6	14
15	24.9	5.1	23.3	4.2	23.6	5.5	24.8	6.0	24.0	6.4	23.7	3.6	24.1	3.5	24.0	4.8	15
16	23.3	4.0	22.9	3.7	23.1	4.4	23.1	4.8	23.2	5.5	23.1	3.3	23.0	3.4	23.0	4.4	16
17	22.5	3.5	22.3	3.6	22.2	3.6	22.1	4.4	22.0	4.7	23.1	3.5	22.4	3.1	21.7	3.8	17
18	21.1	2.0	20.3	2.2	21.7	3.1	20.1	3.0	20.5	3.2	21.4	2.0	21.7	2.6	20.7	3.4	18
19	20.3	2.3	18.8	2.6	21.0	3.0	19.1	2.2	19.1	2.4	20.2	1.4	19.2	1.3	20.1	3.0	19
20	19.8	2.6	17.1	2.0	20.2	2.4	18.8	2.0	18.2	2.1	18.8	1.6	18.6	1.5	20.1	3.1	20
21	18.4	2.0	17.0	2.0	20.6	3.1	18.1	2.1	17.3	1.7	18.6	1.4	18.7	1.5	20.0	3.4	21
22	18.2	2.1	17.1	2.0	20.0	2.7	17.3	1.6	16.3	1.5	18.5	1.2	18.2	1.2	19.8	3.0	22
23	18.6	2.4	17.0	2.0	20.0	2.5	17.2	1.6	16.1	1.6	17.9	1.1	18.6	1.4	19.7	2.7	23

TABLE XI (Ctd) - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the absolute scale add 273)

J U N E, 1942

Day / Hour	17		18		19		20		21		22		23		24		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	19.9	2.6	19.5	1.4	20.1	1.8	21.1	1.1	19.7	2.4	18.9	1.6	19.0	[illegible]	19.9	1.7	Mid-night
1	19.7	1.7	18.9	1.4	19.6	1.6	21.2	1.2	20.0	2.8	18.7	1.5	19.6	1.0	20.1	1.8	1
2	[illegible]	[illegible]	[illegible]	[illegible]	19.9	1.0	21.0	1.0	20.3	2.3	18.2	1.2	19.4	0.7	19.1	1.1	2
3	[illegible]	[illegible]	18.5	[illegible]	18.6	1.5	21.0	1.0	20.4	2.1	18.8	1.2	19.1	0.9	18.7	1.7	3
4	[illegible]	1.6	17.8	1.3	19.1	1.5	21.0	1.0	20.2	2.1	18.4	1.7	19.3	0.2	17.4	1.4	4
5	17.9	1.7	17.1	1.0	19.1	1.4	21.1	1.1	19.9	1.3	18.1	1.2	19.1	0.2	17.9	1.8	5
6	18.3	1.2	17.2	0.9	19.2	1.2	21.1	1.1	20.1	1.4	18.8	0.8	19.3	0.7	17.7	1.7	6
7	17.7	1.4	17.0	0.9	19.8	1.8	21.1	1.3	20.1	2.1	18.8	0.9	19.1	0.8	15.9	0.7	7
8	21.1	2.7	19.5	0.4	22.0	2.8	21.3	1.3	20.4	1.7	19.9	1.2	20.6	0.8	18.5	1.8	8
9	22.1	3.0	20.7	1.1	23.5	3.6	23.6	3.1	21.7	2.4	22.1	2.5	22.3	1.8	22.6	4.0	9
10	21.1	1.8	22.3	2.4	23.7	4.1	24.0	3.6	21.1	1.2	23.2	3.7	23.0	3.0	23.3	4.7	10
11	22.9	2.9	24.1	3.8	24.7	4.3	23.0	3.0	21.6	1.5	23.7	4.5	23.6	3.5	24.0	4.9	11
Noon	22.4	2.5	24.2	3.6	22.1	1.0	23.0	2.4	21.7	0.8	24.2	4.2	23.0	2.7	24.1	5.5	Noon
13	23.2	3.2	23.1	4.1	25.0	5.3	24.0	3.0	22.0	1.5	24.1	4.5	24.2	4.0	24.7	6.0	13
14	23.9	3.7	24.4	4.7	24.6	4.5	23.4	2.6	22.0	1.9	24.6	5.0	24.1	4.1	24.6	6.3	14
15	23.1	3.8	24.3	4.6	24.5	4.4	24.1	3.8	22.7	1.8	23.8	4.5	23.4	3.3	24.1	5.8	15
16	21.6	1.8	23.9	4.0	23.8	3.9	23.1	3.1	22.9	2.3	23.2	3.8	23.3	3.7	23.1	5.1	16
17	21.7	2.6	22.7	3.1	21.2	1.2	22.3	2.4	19.9	1.3	22.6	3.0	22.6	3.4	22.1	4.3	17
18	21.3	2.5	21.4	1.9	20.7	1.4	21.7	2.7	19.6	1.4	21.1	2.1	21.3	2.3	20.2	3.1	18
19	21.1	2.4	20.3	1.3	20.1	1.5	21.1	2.1	19.8	1.1	20.1	1.3	20.3	1.7	18.7	2.1	19
20	19.7	1.4	19.9	1.7	21.0	1.1	20.9	2.2	19.9	0.7	19.7	1.2	19.9	1.8	18.7	1.9	20
21	19.4	1.2	19.5	1.4	21.1	1.2	21.0	2.3	19.2	1.1	19.3	1.1	19.4	1.3	18.1	1.4	21
22	19.7	1.4	19.8	1.7	21.1	1.1	19.4	1.6	19.6	1.6	19.2	1.0	19.9	1.6	17.1	1.6	22
23	19.7	1.0	20.0	1.9	21.1	1.1	19.7	1.9	19.1	1.3	19.1	1.1	20.1	1.6	16.1	1.5	23

Day / Hour	25		26		27		28		29		30		Mean				Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.			
Midnight	[illegible]	[illegible]	[illegible]	[illegible]	15.0	[illegible]	16.7	1.6	14.2	1.6	19.0	4.5	18.0	1.6			Mid-night
1	[illegible]	1.2	16.1	2.0	15.5	2.0	17.3	1.8	13.8	1.7	18.1	3.4	18.4	1.5			1
2	14.8	1.5	16.2	1.7	14.3	1.5	16.1	1.1	14.1	1.2	17.6	3.3	18.2	1.5			2
3	14.3	1.2	17.8	1.8	16.3	1.5	14.4	1.3	16.0	1.3	18.0	3.1	18.1	1.4			3
4	14.1	1.1	17.2	1.5	16.9	1.8	13.9	1.7	15.7	1.5	17.0	2.8	18.0	1.4			4
5	16.0	1.4	[illegible]	1.3	16.7	1.8	15.1	1.7	16.1	[illegible]	16.8	2.6	17.9	1.3			5
6	18.2	2.2	[illegible]	1.6	16.8	1.8	16.2	1.3	15.9	[illegible]	16.3	2.0	18.2	1.4			6
7	17.4	2.2	[illegible]	1.1	16.4	1.4	16.2	1.1	14.8	[illegible]	17.1	2.9	18.2	1.4			7
8	19.3	2.1	[illegible]	1.0	16.9	1.1	17.0	1.2	17.3	1.6	18.1	3.0	19.9	1.7			8
9	21.7	3.7	[illegible]	1.9	19.5	2.5	19.0	1.4	20.4	3.1	19.2	3.5	21.9	2.8			9
10	22.6	4.3	[illegible]	3.2	18.7	1.7	20.8	3.7	22.1	3.7	21.2	4.9	22.8	3.6			10
11	24.0	5.7	[illegible]	4.9	21.0	4.4	22.0	4.8	23.0	3.9	21.7	5.4	23.5	4.2			11
Noon	24.9	6.9	[illegible]	4.8	22.0	5.9	23.0	6.3	22.8	4.1	22.4	5.2	23.7	4.3			Noon
13	24.7	5.5	[illegible]	5.2	23.1	6.4	23.1	6.3	23.0	4.7	22.6	5.8	24.0	4.6			13
14	24.1	5.4	[illegible]	5.7	22.1	5.2	23.7	7.6	23.0	4.3	23.1	6.0	23.9	4.6			14
15	24.9	5.7	[illegible]	5.1	21.9	5.1	23.5	8.2	22.9	3.6	22.5	5.8	23.7	4.5			15
16	22.9	5.1	[illegible]	5.8	21.1	4.1	22.3	5.3	21.1	1.8	22.0	5.4	23.0	3.9			16
17	21.9	4.4	[illegible]	4.8	19.9	2.9	21.1	3.3	20.8	1.8	21.0	4.4	22.1	3.3			17
18	20.7	3.5	[illegible]	3.3	18.1	2.4	20.5	3.5	20.0	2.9	19.6	3.4	20.8	2.6			18
19	19.6	2.9	[illegible]	2.2	18.1	2.0	20.1	3.1	19.7	2.8	17.9	2.6	19.9	2.1			19
20	18.9	2.6	[illegible]	2.5	17.5	2.2	18.8	2.2	19.2	2.7	16.1	2.0	19.4	1.9			20
21	19.1	3.0	[illegible]	1.9	17.6	1.9	[illegible]	1.9	19.0	3.0	15.3	1.4	19.0	1.8			21
22	19.1	2.6	[illegible]	2.2	16.0	[illegible]	[illegible]	1.7	19.0	3.3	15.1	1.3	18.7	1.7			22
23	18.7	3.0	15.7	1.7	15.8	[illegible]	[illegible]	1.7	19.1	4.1	15.1	1.3	18.6	1.7			23

TABLE XII - DIRECTION AND VELOCITY OF THE WIND AT EVERY HOUR OF THE DAY AS RECORDED BY THE ROBINSON CUP ANEMOMETER DURING JUNE, 1942

The directions are given in points and the values indicate the direction from which the wind blows counting from North (0), East (8), South (16) and West (24)

The velocities are given in metres per second, using the factor 2.2

(The days onwhich the Normal Trade Winds are interrupted are indicated by an asterisk *)

J U N E , 1942

Hour \ Day	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Mid-night	12	2.2	13	2.2	12	2.9	10	2.2	10	2.6	12	1.2	09	2.6	09	2.2	32	1.6	16	[illegible]	[illegible]	2.1	[illegible]	[illegible]	10	1.5	11	1.9	15	2.4	14	3.1
1	10	3.8	12	3.3	11	2.4	10	2.6	08	2.5	12	1.4	12	2.8	r32	1.1	32	1.9	16	[illegible]	12	2.9	[illegible]	0.8	10	1.3	11	1.7	15	1.8	14	2.5
2	10	2.3	11	2.6	11	2.4	11	3.1	09	1.9	12	1.9	12	3.5	02	2.0	32	1.2	14	1.5	12	2.3	14	1.2	10	1.5	11	1.7	15	2.2	15	2.1
3	10	2.4	11	2.7	11	3.3	11	2.8	11	2.7	12	1.4	12	1.8	d11	1.8	32	1.4	14	1.2	12	2.1	14	1.0	10	2.1	11	2.1	15	2.2	15	1.1
4	10	2.5	12	2.5	10	2.9	10	3.9	10	3.6	12	2.1	12	2.0	11	1.2	32	1.5	14	2.2	12	2.1	14	2.2	10	1.8	12	1.8	15	2.2	15	2.0
5	10	2.1	07	1.9	10	1.8	10	3.3	10	3.6	11	1.2	12	1.4	11	0.9	32	1.1	14	1.9	12	2.4	14	2.2	10	2.1	12	1.7	15	2.6	16	1.3
6	10	1.6	11	2.4	10	2.9	10	3.0	12	4.0	11	3.2	12	2.0	11	2.9	32	1.1	14	2.1	12	1.3	14	1.8	10	2.4	08	1.6	15	2.2	15	1.8
7	10	1.9	11	2.6	10	2.9	10	2.6	10	3.2	10	3.0	12	2.2	10	2.5	32	1.2	14	1.7	11	1.9	14	1.9	11	2.2	08	1.7	13	1.7	15	1.9
8	10	1.9	11	3.1	10	3.3	11	2.3	10	3.4	12	2.9	09	2.6	10	1.7	r21	0.9	12	1.8	11	1.0	14	0.7	11	2.9	10	1.0	13	1.7	16	2.0
9	10	[illegible].8	10	4.4	10	5.5	10	4.7	10	4.4	10	3.1	09	2.6	10	1.6	21	0.7	14	1.3	11	1.2	14	1.9	10	3.6	10	1.0	13	0.8	14	3.9
10	08	6.2	10	5.2	09	6.0	10	5.9	12	4.8	09	5.7	10	4.2	07	2.2	18	1.3	13	1.9	11	1.6	12	3.5	10	4.8	11	1.2	r05	[illegible]	15	3.3
11	08	5.9	11	5.4	09	5.9	09	6.5	10	5.9	07	5.0	06	4.3	04	2.1	17	1.7	15	2.2	11	1.7	12	4.4	09	5.0	r32	1.3	r22	2.0	15	2.5
Noon	12	5.7	11	5.8	08	6.0	09	6.0	10	6.2	09	5.2	06	4.3	05	2.0	17	1.6	14	2.3	12	1.5	10	4.1	11	4.6	30	1.1	23	2.1	14	2.9
13	13	6.5	12	5.3	09	6.4	11	6.4	11	7.0	09	5.8	08	4.0	06	2.3	16	2.0	d25	2.2	08	2.0	10	4.7	12	3.3	26	1.6	22	1.6	12	3.5
14	13	5.5	10	5.1	09	6.1	12	6.2	10	6.3	09	6.2	03	4.2	05	2.7	15	2.6	21	2.0	12	1.7	10	4.5	10	3.6	24	1.8	r06	1.3	13	4.8
15	09	5.6	11	4.7	10	5.0	08	4.9	10	5.8	09	5.6	d12	4.2	05	2.7	17	3.2	22	1.3	12	1.9	09	4.4	07	3.3	26	1.4	r29	1.7	13	5.2
16	09	4.4	12	4.4	10	5.2	11	4.7	11	5.0	09	5.7	07	3.8	04	2.3	14	4.9	r12	1.3	12	1.7	11	[illegible]	09	3.2	26	1.4	d07	1.7	13	5.6
17	11	3.2	12	4.3	08	4.0	10	3.9	11	4.4	09	4.5	08	3.0	31	2.1	15	4.4	10	1.8	12	2.1	10	[illegible]	11	2.6	26	1.2	07	1.9	13	5.6
18	11	2.4	12	3.1	09	3.9	11	2.3	12	2.6	09	3.4	09	2.5	32	1.2	16	4.0	11	1.8	12	1.1	10	1.9	11	2.4	26	1.9	07	1.1	13	4.2
19	11	2.1	12	3.3	09	3.5	11	2.6	12	3.2	10	2.6	09	2.2	32	1.6	18	2.4	11	1.9	12	1.5	10	[illegible]	11	1.8	26	1.3	10	1.5	13	4.0
20	11	2.1	12	3.3	09	3.4	11	2.4	12	3.2	10	2.1	09	2.4	32	1.7	18	1.9	11	2.0	12	1.6	11	1.8	11	1.3	26	1.4	12	1.8	13	4.4
21	11	1.8	12	3.6	10	2.5	10	2.0	12	3.1	10	2.4	09	2.4	32	1.3	18	1.3	11	2.2	13	2.3	11	1.[illegible]	11	1.8	26	1.9	12	2.0	13	4.3
22	10	2.4	12	3.1	10	3.9	10	1.6	12	1.8	11	2.4	09	2.8	32	1.9	18	2.1	11	1.9	14	2.1	10	1.[illegible]	11	1.6	r15	2.0	13	2.2	13	3.9
23	09	3.0	10	3.4	10	4.1	10	3.1	12	1.6	08	2.1	09	2.2	32	1.4	18	3.0	11	1.6	15	1.6	10	1.[illegible]	11	1.4	15	1.5	1[illegible]	2.5	13	3.4

Hour \ Day	17		18		19		20		21		22		23		24		25		26		27		28		29		30				Mean
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.			Velo-city
Mid-night	14	3.3	12	1.1	12	2.9	10	4.1	12	3.8	10	2.4	10	1.9	12	3.0	14	1.1	16	1.8	14	1.8	10	2.4	12	2.2	14	5.0			2.4
1	12	3.2	12	1.5	12	2.6	11	4.5	12	3.5	11	2.7	10	2.9	11	3.0	12	1.1	16	0.9	15	2.7	08	1.5	12	2.4	14	2.5			2.3
2	13	2.0	11	2.7	12	3.1	10	4.5	12	4.2	11	2.2	08	1.8	11	1.8	13	1.1	16	1.9	15	2.0	d16	1.0	12	1.7	15	3.2			2.2
3	13	2.9	11	2.0	12	1.4	10	4.7	11	4.1	11	3.7	09	1.8	11	1.7	13	1.3	16	0.6	15	2.5	16	0.7	12	1.3	15	2.9			2.1
4	13	1.5	11	1.5	12	2.3	10	5.0	11	4.4	13	4.0	12	2.0	11	1.3	13	1.6	16	2.4	15	2.1	09	1.8	14	1.8	14	3.2			2.4
5	13	1.1	14	1.9	12	1.9	09	5.2	11	4.0	11	2.0	12	2.8	11	2.3	16	2.7	16	2.0	16	.20	11	2.5	14	1.8	14	2.1			2.2
6	13	2.1	14	1.7	12	2.9	10	4.5	10	4.2	06	2.8	10	3.7	11	1.3	16	3.6	16	1.2	14	1.9	11	0.8	14	1.5	13	1.8			2.3
7	17	1.2	14	1.6	12	3.0	10	4.6	11	4.2	11	5.3	10	2.3	11	1.1	15	2.1	16	1.1	12	2.1	11	1.8	12	1.7	14	2.1			2.3
8	13	2.3	10	2.0	11	3.3	10	5.0	11	3.9	11	3.1	10	2.0	11	0.9	15	1.8	11	1.1	16	2.3	11	1.4	12	1.1	14	1.9			2.2
9	14	3.6	11	1.8	11	5.1	09	6.9	10	5.3	09	4.6	11	3.3	11	4.1	16	1.9	13	2.8	14	2.3	11	0.8	12	0.7	14	3.1			3.0
10	11	3.9	13	2.9	12	6.3	09	7.1	10	6.1	09	6.5	11	4.4	10	5.0	14	3.9	14	3.8	12	2.5	06	111	d26	1.9	16	3.1			3.9
11	12	4.0	09	4.2	11	6.7	09	6.8	10	5.9	09	6.3	10	4.4	10	5.4	15	5.1	13	4.5	13	4.0	09	2.0	27	2.1	23	2.3			4.2
Noon	10	4.5	10	4.9	11	5.7	10	6.5	11	4.7	10	5.4	10	5.5	12	5.8	14	5.3	10	4.5	13	4.2	09	2.3	25	3.9	16	2.5			4.2
13	12	4.9	10	4.4	09	7.0	09	6.6	10	5.8	10	5.3	10	5.3	11	5.3	13	3.3	12	4.1	10	4.4	10	2.1	20	4.3	15	2.5			4.3
14	12	5.0	09	4.9	09	6.4	11	6.3	11	6.0	09	5.6	10	5.3	10	5.0	14	5.5	13	5.0	12	3.8	08	2.5	20	2.9	19	3.1			4.4
15	[illegible]	4.4	11	4.7	12	6.9	11	6.4	09	5.8	09	5.4	10	5.2	11	5.0	15	5.0	14	4.[illegible]	15	4.4	16	2.4	24	2.9	16	3.3			4.2
16	[illegible]	1.8	[illegible]	4.4	11	6.5	10	6.2	09	4.8	10	4.5	11	4.7	12	4.1	16	4.5	14	4.1	13	4.1	18	1.4	17	1.7	17	3.1			3.9
17	[illegible]	2.3	[illegible]	3.6	09	5.5	12	5.1	11	4.8	09	4.3	11	4.1	12	3.0	15	3.4	14	2.9	12	3.1	18	1.3	20	0.7	15	2.2			3.3
18	14	1.8	12	2.3	11	4.1	12	4.7	11	3.4	10	2.1	11	1.3	12	2.2	14	3.0	14	1.6	16	2.1	16	1.5	14	2.4	15	2.2			2.5
19	12	2.3	12	2.1	11	4.8	12	3.6	11	3.4	10	2.0	11	1.8	12	1.7	14	1.7	14	1.9	15	2.0	13	1.5	14	2.8	15	1.2			2.5
20	12	2.9	12	2.2	10	4.2	12	4.0	09	4.0	10	2.0	11	2.8	14	1.8	16	1.8	16	1.6	14	2.2	13	1.9	15	2.0	15	1.8			2.4
21	12	2.4	12	2.1	10	4.6	10	5.0	10	3.7	10	2.0	11	2.9	14	1.7	16	1.8	16	1.8	14	1.9	13	2.0	15	2.8	15	1.8			2.4
22	12	2.4	12	2.4	11	4.4	12	3.2	09	3.5	10	2.1	11	3.0	14	1.4	16	1.4	16	2.9	14	1.5	13	2.3	14	4.9	15	2.2			2.5
23	12	2.4	11	2.8	10	4.3	11	3.4	09	2.5	10	1.5	12	3.3	14	1.1	16	1.7	14	2.0	14	[illegible]	13	2.1	15	5.0	15	1.8			2.4

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS) JUNE, 1942

Force (0-12)				Direction																
Hour	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
3	-	-	30	1	-	-	-	4	6	17	2	6	-	-	-	-	-	-	-
9	-	2	28	-	-	-	-	3	10	9	6	1	-	1	-	-	-	-	-
15	-	6	24	-	-	1	-	7	4	8	1	5	-	-	1	1	1	1	-
21	2	-	30	1	-	-	-	1	7	13	2	4	-	-	-	-	1	-	-
Totals	-	-	-	2	-	1	-	12	24	47	11	16	1	1	1	1	2	1	-

TABLE XIVa - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY FOR JUNE, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	0.3	0.1	..	..	0.7	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..
2	..	..	..	..	0.3	..	..	1.6	..	..	..	..	..	..	..	..	..	..	..	0.5	..	..	0.3	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	0.1	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	..	..	0.1	..	0.1	0.1	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	..	..	2.5	..	..	..	..	..	..	..
5	..	0.2	..	..	..	0.6	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	0.2	..	0.8	..	..	..	..	..	..	..
6	..	..	..	..	0.1	0.3	..	..	0.1	..	..	..	..	..	..	..	..	..	..	0.2	..	0.5	..	..	..	..	..	0.2	..	..
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	0.2	0.2	..	..	..	0.2	..	..	..	..
8	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	0.3	0.2	..	..	..
9	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..
10	0.1	..	..	0.1	0.1	..	0.1	..	..	..	..	..	..	..	..	..	0.2	..	..	..	0.3	..	..	..	..	..	..	..	..	..
11	..	..	..	..	0.1	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	0.1	..	0.3	0.1	1.3	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.6	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	0.1	..	..	..	..	..	..	..	..	..
15	..	..	..	0.4	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	1.1	..	..	..	..	..	..	..	..	..
18	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.2	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	0.2	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.1	..	..	..	..	..	..	..	..	..
21	..	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	0.2	..	0.2	0.1	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..
23	0.9	0.1	0.1	..	..	.1	..	..	..	..	..	..	..	..	..	..	..	..	0.3	0.1	..	..	..	..	..	..	..	..	..	..

TABLE XIVb - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR JUNE, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
[illegible]	..	0.8	0.4	..	0.2	..	0.6	..	..	..	..	..	..	..	..	..	..	..	..	2.7	..	..	..	..	..	..	..	..	..	..
[illegible]	..	..	0.1	..	0.3	..	1.7	0.4	..	..	..	..	..	..	..	..	..	..	..	0.2	0.1	..	..	..	..	..	..	..	..	..
[illegible]	..	0.2	0.8	0.2	0.9	..	0.6	1.2	..	..	..	0.7	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..
4	..	0.3	0.2	0.1	0.6	..	..	..	..	..	..	..	0.2	0.3	..	..	..	..	..	..	0.5	..	0.1	..	..	..	..	..	..	..
5	..	0.2	0.7	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	0.3	..	0.1	..	..	..	0.7	..	..	..
6	..	0.3	..	..	0	..	..	..	1.2	..	..	..	..	..	..	..	..	..	..	0.3	1.2	..	0.1	..	..	..	0.2	..	..	..
7	3.3	..	..	0.	0.8	0.2	..	..	..	..	..	..	0.1	..	..	..	..	..	0.3	0.2	0.4	0.3	..	..	..	1.0	0.1	..	..	..
8	0.7	0.3	..	..	..	..	..	..	0.3	..	..	0.1	0.1	..	..	..	..	0.2	..	0.5	0.5	0.5	..	..	..	..	0.1	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	0.1	..	..	0.1	..	..	..	..	..	..	..	..	..
10	0.2	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	0.2	0.2	0.1	0.7	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	0.1	0.2	..	..	..	..	..	..	..	..	..
12	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	1.1	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	0.1	0.8	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.4	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.5	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.9	..	..	..	..	..	..	..	..	..
18	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4.0	..	2.8	..	..	..	..	..	..	..	..	..
19	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.0	..	0.3	..	..	..	..	..	..	..	..	..
20	..	..	..	0.8	..	0.2	..	..	..	..	..	..	..	..	..	..	0.2	..	1.9	1.2	..	..	..	..	..	..	..	..	..	..
21	..	..	0.1	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.2	0.1	..	..	..	..	..	..	..	..	..	..
22	..	..	0.3	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3.3	0.8	..	0.3	..	..	..	..	0.4	..	..	..
23	0.6	0.2	0.1	0.2	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	1.7	..	..	..	..	..	..	..	..	..	..	..
24	0.3	0.4	0.3	0.6	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	0.8	..	..	..	..	..	..	..	..	..	..	..

TABLE XV - TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ONTHE CHART FOR J U N E, 1942

RIVER SYSTEM	STATIONS	Approximate Altitude in feet	Total Fall Inches	Total Fall Millimetres	Normal in Inches	Number of Days
1	Mare Sabe	20	1.20	30.5	2.41	8
	St Antoine	50	0.91	23.1	2.40	8
	Bel Mont	50	1.38	35.1	2.85	4
	Poudre d'Or	20	1.21	30.7	2.74	4
	Mon Loisir S.E.	300	1.84	46.7	3.91	10
	Forbach	300	1.03	26.2	2.55	6
	Couroupa	....	1.15	29.2	2.43	4
	Labourdonnais	290	0.92	23.5	3.02	5
	Mapou Water Works Office	...	1.03	26.2	...	4
	Beau Sejour	300	2.08	52.8	4.05	10
	Mont Piton	650	2.51	63.8	4.59	12
	MonChoix	700	1.46	37.1	4.36	11
	Antoinette	640	2.93	74.4	4.20	13
	Mon Songe	620	2.43	61.7	4.48	9
	Botanical Gardens	325	1.32	33.5	3.01	18
	The Observatory	179	1.24	31.6	2.41	2[illegible]
	Solitude	175	1.74	44.2	1.38	9
	St Andre (Cour)	90	...	...	1.37	..
	La Nicoliere	...	3.08	78.2	5.29	15
	California	...	2.75	69.9	...	8
	Australia	...	2.06	52.3	...	10
2 & 3	Union Regnard (Flacq S.E.)	600	2.47	61.5	3.04	10
	Constance d'Arifat L.G.	100	2.02	53.1	4.18	11
	Rich Fund	600	3.13	79.5	4.57	15
	La Joffrette	...	2.66	67.6	...	10
	Belle Vue Allendy	...	1.75	44.5	3.74	14
4	Sans Souci	900	5.40	137.2	10.46	20
	Beau Champ (G.R.S.E.)	20	2.40	61.0	4.10	16
	Olivia	400	3.22	81.8	6.03	16
	Trois Ilots	...	...	...	...	..
	Belle Rive	400	3.74	95.0	6.27	15
	Sebastopol	700	...	...	...	..
	Bonne Veine	400	5.01	127.3	6.55	21
5	Rose Belle	850	4.68	118.9	8.31	24
	New Grove	650	4.71	119.6	9.60	22
	Mon Tresor	...	7.31	185.7	...	15
	Mon Desert Carie	75	2.10	53.3	3.78	9
	Ferney	20	1.82	46.2	6.20	10
	Sauveterre	...	1.59	40.4	...	8
	Tivoli	1300	4.31	109.5	9.35	20
	La Flora	1050	5.73	145.5	8.16	20
	Riche Bois Britannia	650	2.93	74.4	5.87	16
6	Britannia Estate	700	3.13	79.5	8.19	21
	[illegible]nnah Mill	200	2.50	64.8	4.81	10
	St Aubin	300	2.71	68.8	4.94	10
	St Avold	900	5.57	141.5	7.72	18
	Colmar	400	2.95	7[illegible].9	6.79	1[illegible]7
	Union S.E.	...	4.58	116.3	3.37	14
	Fontenelle	320	2.50	63.5	4.61	14
	Choisy	200	1.84	46.7	3.18	10
	Beau Bois	...	5.43	137.9	...	16
	Bel Air	...	2.15	56.4	3.42	4
	St Felix	...	0.55	14.0	...	2
7, 8, 9 & 10	Bel Ombre	40	2.35	59.9	3.64	15
	Beau Champ [illegible] Cap	70	2.62	66.5	2.79	15
	Frederica	...	2.46	62.5	3.27	14
	Pierrefonds	...	1.00	25.4	1.11	12
	Ste Marie	...	2.45	62.2	...	15
	Hossonia	...	...	...	...	..
11	Curepipe Gardens	1840	5.54	140.8	7.55	22
	Mare aux Vacoas (G.End)	1850	5.36	136.1	7.79	24
	Mare aux Vacoas (Arnaud)	1830	7.25	184.2	10.62	25
	La Marie Filter Beds	1700	4.01	101.9	6.01	21
	Sophie	...	...	...	...	..
	Reunion	1420	3.18	80.9	4.60	15
	Aerological Station	1393	2.76	70.1	3.85	21
	Phoenix	...	2.33	59.2	...	5
	Quatre Bornes	...	1.35	34.3	...	7
12	Quatre Bornes Board	1090	1.00	25.4	...	2
	Le Reduit (Dep.of Agric.)	1000	1.52	38.7	2.33	25
	Alma	1460	3.13	79.0	7.84	14
	Bagatelle	1250	3.07	78.0	4.33	9
	Highlands	1300	2.55	64.8	4.78	11
	Trianon	950	1.32	33.5	2.71	7
	Val Ory	1100	...	...	3.10	..
	Bassin	...	1.05	26.7	1.35	6
	Hermitage	1450	3.23	82.0	7.10	10
	Ebene	...	1.36	34.5	...	8
	Bega	...	1.33	33.8	...	8
	Mon Reve	...	1.92	48.8	...	8
	Mont Pevril	...	1.11	28.2	...	8
	Minissy	1150	2.08	52.8	3.00	9
	Plaisance	...	1.22	31.0	...	6
	La Ferme	350	0.32	8.1	1.35	6
13	Line Barracks	...	0.73	18.6	...	12
	Richelieu L.Res. Stn.	...	0.12	3.0	...	4

TABLE XVI - PILOT BALLOON OBSERVATIONS FOR THE MONTH OF JUNE, 1942

Date	Time	Surface		250 metres		500 metres		750 metres		1,000 metres		1,500 metres		2,000 metres		2,500 metres		3,000 metres		3,500 metres		4,000 metres	
		Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity
		°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.
1	09.14	102	5.0	108	4.7	108	19.1	093	7.3	091	7.0	091	12.0	080	10.9								
2	09.03	129	6.3	109	3.5	115	1.4	102	11.4	084	7.1	049	6.2	031	3.2	081	4.9	090	5.4	062	3.5	044	7.8
3	08.52	098	8.1	093	[illegible]	098	24.9	08[illegible]	10.4	076	2.2	095	18.7										
4	08.55	095	9.1	098	[illegible]	098	3.0	1[illegible]6	10.6	096	14.7	109	9.8	147	3.3	127	10.0						
5	09.14	130	4.4	127	5.8	117	10.4	111	10.2	110	11.1												
6	09.15	088	12.3	093	10.8	071	6.2	097	13.0	095	12.0	095	12.0	081	9.9								
7	09.38	098	11.3	093	[illegible]	098	14.6	094	19.1	088	6.4	078	11.0	018	4.2	010	7.3						
8	09.21	092	4.3	074	4.7	058	6.1	062	6.9	055	5.7	016	5.7	352	4.6	020	8.3	017	9.4	358	6.0	347	4.1
9	09.03	213	2.6	201	2.8	193	3.9	204	[illegible]	[illegible]	6.2	247	6.4	252	6.2	255	6.2						
10	09.04	350	1.2	137	2.7	157	4.2	156	[illegible]	101	4.1	174	5.0	171	8.1								
11	09.12	122	1.9	205	3.1	097	2.5	090	3.0	204	5.4	216	6.2	247	6.4	252	6.2	255	6.2				
12	09.13	134	8.3	125	8.9	112	9.5	096	9.0	095	9.1	085	9.1	096	9.0								
13	09.00	070	4.1	138	4.1	123	2.4	125	9.8	125	7.3	129	3.5	125	4.2								
14	09.03	106	1.5	065	1.4	042	2.6	037	2.6	037	2.6	040	3.1	034	2.9	209	3.7	198	8.0	234	6.9	265	9.2
15	08.55	346	3.3	045	1.1	225	0.2	203	2.0	194	3.4	195	5.4										
16	09.02	349	1.0	143	1.5	174	2.7	166	1.7	202	1.1	189	1.9										
17	09.45	141	2.7	131	1.9	125	2.0	136	4.1	134	5.9	121	7.4										
18	09.37	133	9.7	120	12.9	102	8.5	097	10.7	121	2.1	081	11.0										
19	09.00	113	7.8	130	3.5	130	5.7	123	10.4	111	12.3	100	13.2										
20	09.32	114	10.9	101	11.1	098	8.9	104	16.3	106	14.3	107	19.3	101	15.3								
21	09.30	102	17.9	112	8.4	125	6.0	107	12.7	102	16.2												
22	08.46	101	5.2	093	7.7	091	18.6	082	14.0	081	16.3	081	11.4										
23	09.24	113	3.0	134	5.0	118	4.9	114	8.5	118	8.1	115	12.0										
24	09.12	135	0.8	116	1.4	135	3.1	134	3.2	126	4.1	118	4.7										
25	09.27	134	4.1	150	3.3	1[illegible]9	3.1	145	5.5	161	8.0	168	11.4										
26	09.32	148	8.6	164	3.0	155	8.3	141	9.3	124	5.4	138	7.1										
27	10.00	081	[illegible].6	045	6.2	147	7.7	138	11.7	156	8.2	139	13.5	125	9.8								
28	08.37	095	2.3	117	2.9	115	4.7	103	6.2	101	7.9	112	5.4	123	4.8								
29	07.19	085	1.3	247	1.3	234	2.7	254	3.7	230	6.7	191	11.9										
30	08.56	198	1.4	140	1.6	190	3.0	191	4.3	194	4.1	193	7.4										

Pearson

NEW SERIES (MONTHLY) XXVIII PART 7

MAURITIUS
ROYAL ALFRED OBSERVATORY

LATITUDE 20°5' 39"S - LONGITUDE 3h 50m 12.6"E

RESULTS
OF
MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

C[illegible] OF

JULY, 1942

N.R. Mc CURDY, B.Sc. F.R. MET.SOC.

DIRECTOR

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TABLE I - RESULTS OF MAGNETICAL OBSERVATIONS MADE DURING THE MONTH OF J U L Y, 1942

Month and Day 1942	Mean Declination (West)	Mean Horizontal Force (C.G.S. Units)	Mean Vertical Force (C.G.S. Units)	Daily Range: Declination	Daily Range: Horizontal Force (Unit γ)	Daily Range: Vertical Force (Unit γ)
JULY						
1	14°19.9	.22426	.29965	4.5	47	12
2	...	433	...	...	24	..
3	...	440	962	...	28	15
4	...	438	960	...	24	24
5	20.0	446	959	6.5	34	17
6	20.2	447	953	4.0	41	26
7	...	...	...	...	..	..
8	19.7	416	955	6.5	101	37
9	20.2	413	959	4.3	44	17
10	20.4	424	959	4.7	28	24
11	20.5	390	961	7.5	113	34
12	20.4	437	962	4.8	46	30
13	20.4	415	961	3.0	33	19
14	20.5	418	958	4.0	22	20
15	20.3	421	958	3.5	38	19
16	20.3	416	958	6.0	30	22
17	20.1	421	960	3.4	35	13
18	20.0	427	957	4.2	32	24
19	20.0	432	955	5.7	31	25
20	20.4	437	953	4.3	78	24
21	[illegible]	426	956	4.8	36	16
22	[illegible]	426	957	2.8	30	12
23	20.0	431	954	5.0	15	22
24	20.1	434	957	3.8	42	16
25	20.4	420	958	4.8	61	19
26	20.6	432	958	3.3	37	18
27	20.3	428	958	5.8	35	10
28	20.1	427	956	4.2	24	19
29	20.2	428	957	3.7	27	29
30	20.6	434	954	5.3	26	31
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Mean	14° 20'24	.22426	.29958	4'74	39.7	21.1

Description of the Principal Magnetic Disturbance

Horizontal Force : 1st slightly disturbed. 6th very slightly disturbed at times. 7th slightly disturbed. 8th moderately disturbed - mainly irregular features with small pulsations superposed. 9th slightly disturbed in parts. 10th slightly disturbed. 11th moderately disturbed; mostly irregular features with small pulsations superposed. 12th sharp sudden increase in force (19 γ) at 1h 40m. Trace is very moderately disturbed throughout; small pulsations superposed. 13th slightly disturbed. 14th very slightly disturbed. 15th moderately disturbed during second half - important large oscillation of total amplitude 33 γ between 21h and 23h. 16th double wave (29 γ) between 0h and 2h. Slightly disturbed on the whole. 17th slightly disturbed during first half. 20th small short-lived disturbance starting very gradually from a quiet trace by a slow increase of force until 13h then rapid decrease follows until about 16h. Small pulsations superposed. Total amplitude 103 γ 21st [illegible] slightly disturbed trace in parts. 25th very moderately disturbed; mainly irregular features of minor importance. 27th slightly disturbed - rapid small pulsations during first half - minor irregular features during second half. 28th slightly disturbed. 30th slightly disturbed.

T = .37431 : Mean Dip = 53° 10.94 : X = .21728 : Y = .05552 : Z = .29958

The daily range is the difference between the greatest and least hourly values

TABLE II - RESULTS OF ABSOLUTE DETERMINATIONS OF THE MAGNETIC ELEMENTS DURING THE MONTH OF J U L Y, 1942

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d. h. m.	° '	d. h. m.		d. h. m.	° '	
1.13.39	14.17.9	2.11.53	.22433	1.13.52	53.11.69	.29961
7.14.20	14.19.2	6.11.38	.22456	7.14.32	53.08.93	.29953
17.12.15	14.20.6	9.11.30	.22421	17.12.27	53.10.08	.29959
21.14.26	14.17.8	13.12.1[illegible]	.22431	21.14.38	53.10.56	.29949
28.14.25	14.19.0	20.11.26	.22474	28.14.36	53.10.75	.29952
		23.12.38	.22435			
		29.12.52	.22420			

TABLE III - MAGNETIC DECLINATION (WEST) AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

JULY, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
								14° +									
Midnight	20.0	20.5		20.3	20.0	21.0		20.7	20.0	21.0	20.3	22.5	21.0	20.[illegible]	21.0	20.3	Midnight
1	20.0	20.0		20.3	20.0	20.5		20.3	21.5	21.3	20.3	21.0	21.5	21.0	20.0	23.0	1
2	19.8	20.0			19.7	20.0		20.0	21.0	21.0	20.3	21.5	21.0	21.0	21.0	21.0	2
3	18.0				19.7	20.0		19.7	20.0	21.0	20.3	20.7	20.5	21.5	20.0	20.7	3
4	19.3				19.7	20.0		20.0	19.0	20.0	19.0	21.0	20.0	21.0	20.0	19.5	4
5	20.0				20.0	10.3		19.5	19.0	20.0	17.0	20.3	19.5	21.0	20.5	20.0	5
6	20.0				19.7	19.5		17.0	18.0	20.0	19.0	20.0	19.7	20.7	20.5	20.5	6
7	19.[illegible]	19.0	19.0	19.0	19.5	19.0	19.5	16.7	18.0	19.0	18.7	19.0	19.5	19.5	20.0	19.7	7
8	19.[illegible]	19.0	19.0	19.5	19.0	19.0	19.0	16.5	18.5	18.0	19.7	18.0	19.6	19.3	19.7	20.0	8
9	19.[illegible]	19.5	19.7	20.5	20.5	20.0	19.0	18.0	19.0	19.7	20.3	19.0	20.5	21.0	20.3	20.3	9
10	21.0	21.0	21.0	21.7	21.7	21.0	20.3	19.7	21.5	21.0	21.7	20.0	22.0	21.5	21.0	20.5	10
11	20.0	20.0	21.3	23.0	22.3	21.7	21.3	19.0	22.0	22.5	18.0	21.7	22.0	21.5	20.0	20.3	11
Noon	19.[illegible]	22.[illegible]	21.0	22.0	22.5	21.5	21.7	18.0	22.0	23.0	20.0	21.0	20.3	21.0	19.7	19.3	Noon
13	19.0	21.0	20.5	19.5	20.0	20.0	22.0	19.3	21.0	20.0	19.0	19.5	19.7	19.0	20.0	18.0	13
14	18.3	18.5	19.5	18.5	17.5	18.3	21.0	17.0	20.3	18.3	19.0	17.7	19.5	18.5	18.5	17.0	14
15	17.5	17.5	18.0	18.0	16.0	17.7	20.3	19.0	18.7	19.0	17.7	18.0	19.0	17.5	19.3	18.0	15
16	19.0	18.0	18.0	19.0	17.0	18.7	19.7	18.0	17.7	19.5	19.0	19.0	19.0	18.0	19.7	19.0	16
17	20.5	19.5	20.0	20.0	19.5	20.0	19.7	20.0	19.5	21.0	21.0	20.5	20.0	20.0	20.0	10.3	17
18	21.5	21.0	21.0	20.7	20.5	21.0	20.0	22.0	20.5	21.5	23.0	21.5	21.0	21.0	21.0	21.0	18
19	22.0	21.5	21.3	21.0	21.3	21.0	21.0	22.5	21.3	24.5	21.3	22.0	21.0	21.5	21.0	21.7	19
20	21.7	21.7	21.3	21.0	21.0	21.3	21.0	22.0	20.7	21.0	23.0	21.7	21.0	21.3	21.5	21.7	20
21	21.5	21.5	21.0	21.0	21.5	21.5	21.0	22.0	22.0	21.0	23.5	21.7	21.3	21.0	22.0	22.0	21
22	21.0	21.0	21.0	21.0	21.0	21.3	21.0	22.3	21.7	20.7	22.7	21.5	21.0	21.3	20.0	21.7	22
23	21.0	20.7	20.5	20.7	21.3	20.5	21.0	23.0	21.0	20.7	23.5	21.0	21.0	21.0	21.3	21.3	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
								14° +									
Midnight	20.7	20.5	20.5	20.7	21.5	20.5	20.7	21.5	20.3	22.3	20.3	21.5	19.0	20.3	20.7	20.7	Midnight
1	21.0	20.5	20.5	20.5	20.7	20.7	20.7	21.0	20.5	22.0	20.0	20.7	19.7	20.5	20.5	20.7	1
2	20.0	20.3	20.5	20.3	20.7	20.3	20.0	20.0	20.5	21.5	21.0	20.0	20.0	20.7	20.7	20.5	2
3	20.3	20.4	20.0	20.3	21.0	20.0	19.7	19.8	20.0	19.0	20.0	17.5	20.3	20.3	20.0	20.0	3
4	20.5	20.5	20.2	20.3	19.5	20.0	19.7	20.0	20.7	19.5	20.5	18.0	20.3	19.5	20.7	20.9	4
5	20.0	20.0	20.3	20.3	17.5	19.7	18.5	19.5	20.0	20.3	19.5	19.5	19.0	19.5	20.3	19.6	5
6	19.5	19.7	20.3	20.0	18.3	19.5	19.3	19.5	20.7	20.0	20.3	19.3	19.5	20.3	19.5	19.6	6
7	19.0	19.0	19.5	19.7	19.0	19.0	19.3	18.5	19.0	19.5	19.0	18.0	19.5	19.0	19.0	19.0	7
8	18.7	18.7	19.3	19.0	19.7	19.0	20.0	17.7	17.7	20.0	18.3	17.7	19.7	19.7	18.7	18.9	8
9	20.0	19.5	20.0	20.0	19.7	20.5	21.5	19.0	20.0	21.0	19.0	21.0	21.0	19.0	21.7	20.1	9
10	20.3	20.5	20.7	20.5	20.3	21.5	22.3	20.7	22.0	21.7	20.7	21.5	21.5	23.0	23.0	[illegible].2	10
11	20.3	20.3	20.7	20.3	20.7	2013	20.5	20.3	21.0	21.5	20.5	21.7	20.0	22.7	[illegible].5	20.9	11
Noon	20.5	20.0	20.7	19.7	20.7	20.0	20.0	20.0	19.3	20.0	20.5	21.0	18.3	[illegible].5	11.0	20.4	Noon
13	19.7	18.5	19.5	19.9	19.7	19.7	19.0	20.3	18.5	19.7	19.0	20.0	18.5	20.3	18.5	19.5	13
14	18.5	17.5	17.5	20.0	18.5	19.0	17.7	20.5	18.0	19.0	18.0	19.7	19.0	18.9	16.0	18.4	14
15	18.3	18.0	16.0	17.7	18.5	18.7	17.3	20.0	19.5	19.0	17.7	19.5	17.7	19.5	17.0	18.2	15
16	18.3	19.0	17.5	18.0	19.0	19.0	17.5	19.7	20.7	19.7	19.0	20.0	19.7	18.5	17.5	18.8	16
17	19.5	20.0	19.0	20.7	20.5	19.7	18.5	20.0	20.5	21.0	21.0	21.0	21.0	21.0	20.0	20.2	17
18	20.5	21.0	20.7	21.5	21.5	20.5	20.7	20.7	22.5	21.3	21.5	21.7	21.5	21.5	[illegible].5	21.3	18
19	21.5	21.5	21.5	22.0	22.0	21.0	21.0	21.3	21.5	21.7	21.7	22.0	22.0	[illegible]	21.7	21.7	19
20	21.5	21.7	21.7	22.0	22.3	21.0	21.0	21.0	21.7	21.7	21.7	21.5	22.0	22.0	21.7	21.6	20
21	21.7	21.5	21.7	21.7	21.7	21.3	21.0	21.7	21.5	22.0	21.3	21.5	21.7	21.5	21.7	21.7	21
22	21.0	21.5	21.7	21.7	21.5	21.0	22.0	20.7	21.5	21.3	23.5	21.0	21.0	22.0	21.5	21.4	22
23	20.7	21.0	21.0	21.5	21.5	21.0	21.5	20.7	22.0	20.7	22.0	21.0	20.3	21.7	21.7	21.3	23

TABLE IV - MAGNETIC HORIZONTAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature in the Magnet Chamber)

JULY, 1942

22000 + (C.G.S. UNIT)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	423	423	423	431	435	442		435	390	412	419	383	401	410	412	407	Midnight
1	421	423	431	432	433	439		429	405	410	419	402	400	409	425	415	1
2	422	421	431	432	434	440		438	399	405	419	391	401	415	417	413	2
3	435	423	431	435	438	438		440	404	407	425	395	401	414	421	412	3
4	435	429	432	435	441	435		432	410	432	425	400	407	415	430	417	4
5	437	431	435	434	445	439		437	413	421	430	402	421	418	429	425	5
6	438	434	438	435	450	442		461	415	421	431	405	419	419	430	420	6
7	442	436	443	437	435	448	449	455	410	423	418	409	425	423	431	421	7
8	447	437	448	439	459	453	451	450	422	428	433	417	430	429	431	423	8
9	445	441	451	438	461	452	451	444	430	430	428	421	425	427	430	430	9
10	431	442	450	440	461	455	454	439	429	432	400	418	423	422	433	430	10
11	428	444	447	441	460	455	462	433	434	427	403	427	432	431	432	432	11
Noon	421	445	443	445	457	451	460	437	431	420	402	442	433	428	431	432	Noon
13	419	437	440	455	452	470	455	440	420	432	390	448	430	415	415	415	13
14	415	435	436	450	451	467	450	380	413	432	380	431	426	417	422	416	14
15	400	435	442	438	451	462	440	360	407	429	379	389	417	417	425	410	15
16	411	434	441	433	447	455	431	383	402	427	357	390	412	420	421	402	16
17	420	431	442	432	441	452	431	370	410	429	345	399	411	419	415	403	17
18	422	431	444	437	436	455	438	382	412	431	327	401	410	420	410	407	18
19	421	436	443	427	438	447	435	390	415	435	320	400	410	411	416	[illegible]	19
20	428	435	442	439	440	438	435	399	411	419	332	400	402	412	410	[illegible]	20
21	425	431	441	438	445	431	432	397	417	422	348	402	403	415	395	[illegible]	21
22	420	429	441	439	444	429	435	390	406	423	360	398	405	417	420	[illegible]	22
23	420	425	442	436	443	429	438	375	405	421	375	400	407	417	410	[illegible]	23

22000 + (C.G.S. UNIT)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
Midnight	408	417	421	425	415	420	425	417	425	420	437	419	432	428	430	415	Midnight
1	409	417	421	426	419	415	425	413	420	413	430	423	435	431	431	421	1
2	418	415	422	427	409	422	425	420	425	417	430	425	432	429	430	421	2
3	427	415	422	427	409	422	425	428	422	425	445	432	435	432	435	425	3
4	419	419	425	435	423	422	430	430	421	430	445	431	429	437	441	427	4
5	416	422	427	435	426	427	437	431	420	423	442	429	433	441	437	429	5
6	425	423	430	439	429	428	435	437	415	427	432	441	432	435	445	431	6
7	423	431	433	445	439	435	435	440	425	430	433	431	437	433	450	433	7
8	434	435	439	452	445	441	440	445	438	431	428	432	442	442	451	438	8
9	425	435	440	465	442	440	437	455	445	431	420	420	435	443	449	438	9
10	434	435	441	470	438	441	438	446	441	436	429	418	427	447	445	436	10
11	440	435	445	477	435	438	429	443	440	440	420	429	415	451	440	437	11
Noon	441	431	451	485	430	432	434	449	451	450	431	438	[illegible]	435	432	437	Noon
13	439	440	452	485	424	431	438	445	443	449	435	442	419	423	439	436	13
14	425	447	452	461	421	425	436	441	440	443	431	430	423	421	440	430	14
15	410	435	440	435	424	415	431	437	420	439	425	423	427	433	440	423	15
16	405	428	435	415	425	411	430	431	400	431	410	421	430	441	431	419	16
17	411	425	428	411	422	415	429	430	390	429	411	420	425	430	431	417	17
18	418	425	425	410	420	423	428	432	398	429	423	429	426	435	431	419	18
19	417	426	423	407	421	425	431	425	401	430	425	430	424	439	434	419	19
20	413	423	423	416	421	425	430	426	399	431	417	430	425	437	441	419	20
21	[illegible]	422	426	417	423	426	425	430	406	429	411	419	429	430	435	419	21
22	418	421	425	415	426	425	430	422	403	435	431	419	427	425	430	419	22
23	415	422	427	417	425	425	431	430	395	435	420	424	429	427	423	419	23

TABLE V - MAGNETIC VERTICAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature in the Magnet Chamber)

JULY 1942

29000 + (C.G.S. UNIT)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	965	966	965	963	961	957		955	963	959	959	967	964	963	961	961	Midnight
1	964	964	963	963	962	957		956	960	959	957	962	962	962	958	967	1
2	963		963	963	961	957		956	961	961	958	963	961	960	958	958	2
3	960		962	962	961	957	*	956	961	961	957	962	961	960	957	958	3
4	961	*	961	961	960	957		957	961	961	956	962	960	959	957	958	4
5	961		961	961	960	957		957	961	961	957	962	960	959	957	958	5
6	962		961	961	959	957		954	960	962	960	962	961	959	957	958	6
7	961		958	960	957	954	955	952	960	959	959	962	960	957	957	957	7
8	962		959	961	957	955	954	959	957	960	960	962	962	959	959	959	8
9	965		963	964	962	958	961	960	962	963	958	967	964	963	963	960	9
10	971	971	968	966	963	960	963	960	962	966	960	968	967	957	966	957	10
11	970	968	971	969	963	958	959	950	962	967	958	967	961	954	961	957	11
Noon	964	962	968	964	961	953	957	950	957	962	953	959	957	944	956	954	Noon
13	960	955	963	947	953	935	952	940	946	943	944	947	953	945	955	949	13
14	959	951	959	946	946	934	953	930	947	945	946	938	948	944	953	945	14
15	963	950	947	945	954	939	956	939	950	947	950	948	953	951	947	947	15
16	967	955	956	953	953	944	961	947	950	953	958	961	957	959	951	954	16
17	967	960	960	959	962	951	963	956	957	959	966	964	963	963	955	960	17
18	968	964	962	962	963	954	962	966	962	962	976	966	965	963	958	964	18
19	968	964	962	962	963	955	961	967	963	962	968	966	966	963	962	964	19
20	968	964	962	962	962	955	960	963	961	962	977	966	966	964	963	964	20
21	968	965	962	962	961	956	959	963	963	962	976	967	967	966	963	965	21
22	968	965	963	962	961	956	958	963	961	960	972	965	965	963	960	964	22
23	969	965	963	963	961	956	958	963	961	959	973	965	965	962	962	964	23

* Gas light failed

29000 + (C.G.S. UNIT)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
Midnight	963	963	961	958	959	957	957	956	953	958	953	959	957	956	957	960	Midnight
1	962	962	960	958	958	958	957	956	956	958	953	955	957	956	956	959	1
2	959	961	959	957	959	959	957	956	955	957	954	955	956	956	956	959	2
3	958	959	958	957	960	958	957	956	956	955	954	953	956	956	955	958	3
4	958	958	957	956	957	958	957	956	956	957	954	953	954	956	954	958	4
5	957	958	957	954	957	957	957	956	957	959	954	955	954	956	953	957	5
6	957	957	957	954	958	957	957	956	959	959	955	957	956	957	953	958	6
7	956	956	956	952	956	956	956	956	957	957	955	956	955	957	952	957	7
8	958	957	957	951	958	957	958	954	957	962	957	959	958	959	955	953	8
9	962	960	960	955	960	961	960	958	959	966	961	965	961	963	960	961	9
10	962	963	953	954	959	961	959	962	961	965	963	965	972	962	960	962	10
11	966	961	959	954	957	955	957	961	959	960	960	956	965	957	955	960	11
Noon	966	957	952	947	953	953	948	958	954	949	957	946	956	948	945	955	Noon
13	963	939	941	941	949	949	942	957	952	948	956	946	952	939	936	948	13
14	952	942	936	936	945	949	938	957	949	950	954	949	944	932	934	945	14
15	[illegible]	944	942	934	948	952	941	956	951	953	953	948	943	936	933	947	15
16	[illegible]	950	947	942	953	958	947	957	960	959	955	951	951	944	940	953	16
17	956	956	953	953	956	960	954	957	963	963	963	954	958	952	950	958	17
18	[illegible]	950	958	957	958	960	957	959	968	963	963	959	960	957	955	961	18
19	[illegible]	959	960	959	959	959	957	959	963	962	963	959	960	957	956	962	19
20	961	960	960	958	961	958	957	959	963	961	961	960	961	957	956	962	20
21	962	961	960	957	959	958	957	957	962	959	963	960	961	958	957	962	21
22	963	961	959	958	959	958	956	957	961	957	963	960	961	959	958	961	22
23	963	961	958	958	959	959	953	957	961	955	957	959	960	958	959	961	23

TABLE VI - RESULTS OF METEOROLOGICAL OBSERVATIONS MADE AT THE AEROLOGICAL STATION, VACOAS (424.5 metres above mean sea level) DURING THE MONTH OF J U L Y, 1942

Month and Day 1942	Observations at 10 a.m.									Temperature of the Air							Rainfall			
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat = 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0 - 10)	3h	9h	15h	21h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Casella Pluviograph	Duration	Duration of Bright Sunshine	Percentage of possible sunshine
JULY	mbs	°C	°C	°C	%	mbs	o	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms	mins	hrs	%
1	970.4	18.9	2.4	14.9	78	16.9	135	4.0	6	14.2	18.1	20.0	15.8	21.3	13.0	8.3	0.3	5	9.0	83
2	971.8	19.0	3.1	13.6	71	15.6	145	2.7	3	13.8	18.2	20.2	15.5	21.6	13.4	8.2	...	...	9.1	84
3	972.9	17.9	2.5	13.6	76	15.6	130	5.8	5	13.3	17.6	19.5	15.3	20.6	12.3	8.3	4.5	100	9.5	88
4	975.6	17.0	2.9	11.7	71	13.7	115	5.4	8	14.4	16.2	16.5	14.9	19.3	12.8	6.5	2.5	65	7.3	67
5	975.0	19.3	5.7	8.4	49	11.0	90	4.9	3	14.2	18.6	17.7	15.6	20.8	12.6	8.2	0.7	20	9.1	84
6	975.7	17.1	1.5	14.5	85	16.5	100	6.3	6	14.5	16.8	19.1	15.2	20.2	14.0	6.2	7.7	150	8.3	77
7	975.3	18.2	2.8	13.3	74	15.3	95	6.7	6	13.9	17.9	18.9	15.4	20.3	13.9	6.4	6.3	170	8.8	81
8	976.2	17.1	0.9	15.6	91	17.7	90	6.5	8	16.0	17.6	19.2	16.6	20.6	15.9	4.7	...	...	7.5	69
9	975.4	18.3	1.4	15.9	86	18.1	90	6.5	8	16.0	17.6	19.2	16.6	20.6	15.9	4.7	...	...	7.5	69
10	974.1	19.7	1.8	16.8	83	19.1	90	8.1	4	16.3	19.3	20.2	16.5	21.8	16.1	5.7	0.8	25	8.6	79
11	975.3	18.0	1.8	14.9	82	16.9	85	5.6	10	16.3	17.3	19.9	16.6	21.0	14.7	6.3	3.3	90	9.0	83
12	975.1	16.5	0.6	15.6	94	17.6	105	8.5	10	16.1	16.2	19.1	15.5	20.8	15.5	5.3	7.7	285	8.3	76
13	974.1	17.7	1.0	16.0	90	18.2	95	6.0	8	13.7	17.4	19.4	16.5	20.8	13.7	7.1	0.7	35	6.2	57
14	973.9	18.2	1.4	15.8	86	17.9	80	6.7	8	13.9	17.2	19.9	16.2	20.7	13.7	7.0	1.6	30	3.8	35
15	974.5	19.5	2.0	16.2	81	18.4	90	5.2	6	14.7	18.5	20.0	17.2	21.4	14.4	7.0	0.8	45	7.0	64
16	975.0	19.0	1.8	16.0	83	18.2	90	8.5	5	17.1	18.4	20.6	16.4	21.0	16.5	4.5	7.4	335	9.8	89
17	974.9	18.2	1.2	16.2	85	18.4	88	3.1	9	15.6	18.8	19.2	16.3	20.1	14.8	5.3	8.1	135	5.6	51
18	974.1	19.3	2.8	14.5	74	16.5	90	7.0	7	15.3	18.6	18.9	16.8	20.8	13.9	6.9	3.5	105	8.6	79
19	974.6	18.1	1.1	16.3	89	18.5	90	5.6	8	16.5	18.7	19.1	16.7	20.6	13.6	7.0	7.1	155	6.7	61
20	975.1	19.6	3.3	13.9	70	15.9	90	6.7	1	16.0	18.5	19.7	17.1	21.8	16.0	5.8	0.1	5	9.6	88
21	973.8	17.9	1.4	14.6	86	16.6	75	7.4	9	16.5	16.7	19.5	17.0	20.9	15.2	5.7	4.6	125	7.9	72
22	972.5	18.2	1.5	16.7	86	19.0	100	7.2	5	16.6	18.3	20.3	17.3	22.1	16.6	5.5	3.0	80	8.9	81
23	972.0	16.8	0.6	15.8	94	17.9	95	4.5	10	17.0	17.5	19.8	16.5	20.8	16.7	4.1	5.3	145	5.7	52
24	971.8	17.6	1.7	14.7	83	16.7	105	5.4	7	15.5	17.2	19.1	15.3	20.8	15.3	5.5	7.8	165	7.0	71
25	974.2	17.8	4.1	10.2	61	12.4	120	5.2	6	14.6	17.3	17.7	15.4	20.1	14.5	5.6	0.8	20	7.2	65
26	975.2	18.2	3.5	11.9	67	13.9	100	8.9	2	14.5	17.0	17.8	15.5	20.2	13.3	6.9	2.2	85	9.5	86
27	975.2	16.0	0.4	15.4	96	17.5	95	8.1	10	14.6	15.4	18.1	15.9	19.2	14.9	4.3	9.4	395	4.6	42
28	974.2	18.8	2.2	15.1	79	17.2	105	9.8	7	15.5	17.5	18.1	15.8	19.7	14.5	5.2	8.1	155	4.9	45
29	973.6	18.3	1.1	16.5	90	18.8	90	7.2	9	16.2	17.4	20.7	17.7	21.4	15.9	5.5	...	...	1.6	15
30	972.2	19.1	1.4	16.8	86	19.1	40	4.5	9	17.3	18.5	18.8	17.2	21.8	17.0	4.8	7.7	85	1.7	16
31	971.7	19.8	2.1	16.3	80	18.5	95	3.6	6	16.9	18.9	21.4	16.7	22.3	16.6	5.7	...	...	7.0	64
Mean	974.0	18.2	2.0	15.1	80.9	16.9	...	6.1	6.8	15.4	17.6	19.3	16.6	20.7	14.7	6.0	115.0	3160	7.24	66.4
Average	972.0	18.9	2.0	15.5	80.7	17.6	...	4.8	5.8	...	...	...	...	20.3	14.9	5.9	120.9	...	7.09	64.5
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

EXCESS OF CERTAIN ELEMENTS AT PAMPLEMOUSSES OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	+ 42.8 mbs	Amount of Rain	-68.8 mms
Temperature of the Air	+ 3.9 °C	Duration of Sunshine	+23.0 hrs
Vapour Pressure	+ 0.6 mbs	Mean of Maximum Temperatures	+ 3.3 °C
Relative Humidity	- 15.1 %	Mean of Minimum Temperatures	+ 2.1 °C
Velocity of Wind	- 0.8 m.p.s	Absolute Maximum Temperature	+ 2.6 °C
Amount of Cloud	- 1.3	Absolute Minimum Temperature	+ 0.7 °C

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF J U L Y, 1942

Month and Day	Atmospheric Pressure: Mean	Atmospheric Pressure: Excess above Average	Temperature of the Air: Daily Minimum	Temperature of the Air: Daily Maximum	Temperature of the Air: Daily Range	Temperature of the Air: Mean	Temperature of the Air: Excess above Average	Excess of Air Temp. over Evaporation Temperature	Temperature of the Dew Point: Mean	Temperature of the Dew Point: Excess above Average	Relative Humidity (Sat. = 100): Mean	Relative Humidity (Sat. = 100): Excess above Average	Vapour Pressure	Minimum on the grass	Rainfall: Amount recorded by Dines Pluviograph	Rainfall: Duration	Amount of Evaporation	Mean Cloud Amount (Scale 0-10)
JULY	mbs	mbs	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C	mms	min	mms	
1	1011.7	- 2.0	14.3	13.0	11.3	18.5	- 1.5	2.9	13.5	- 2.5	73	- 4	15.5	9.1	0.0	...	2.7	2.2
2	1013.6	- 0.2	23.0	15.4	8.5	19.2	- 0.8	3.2	13.6	- 2.4	70	- 7	15.6	10.7	0.2	[illegible]	3.5	5.3
3	1015.3	+ 1.4	24.2	15.8	8.4	19.5	- 0.5	3.7	13.0	- 3.0	66	- 11	15.0	11.4	1.2	[illegible]	3.1	1.6
4	1018.1	+ 4.2	22.9	14.2	8.7	18.6	- 1.4	3.3	11.7	- 4.3	64	- 13	13.7	10.6	0.1	5	4.8	4.3
5	1018.1	+ 4.2	23.9	15.1	8.8	19.2	- 0.8	4.0	12.0	- 4.0	63	- 14	14.0	11.9	0.2	10	4.3	5.4
6	1017.8	+ 3.8	23.9	15.2	8.7	19.0	- 1.0	2.6	14.6	- 1.4	75	- 2	16.6	12.3	2.0	80	4.4	4.6
7	1017.4	+ 3.4	23.8	15.9	7.9	19.0	- 0.8	2.4	15.0	- 0.9	78	+ 1	17.1	13.4	4.8	145	3.4	4.6
8	[illegible]	+ 3.2	23.6	17.7	5.9	19.8	- 0.1	2.2	16.2	+ 0.3	80	+ 3	18.4	15.6	2.9	125	3.1	3.9
9	[illegible]	+ 2.9	23.9	18.3	5.6	20.5	+ 0.5	2.7	16.0	+ 0.1	76	- 1	18.2	16.0	0.0	...	4.3	3.1
10	1016.3	+ 2.5	24.9	16.0	8.9	20.3	+ 0.4	2.1	16.8	+ 0.9	80	+ 3	19.1	12.1	2.9	115	4.0	3.7
11	1017.4	+ 3.3	24.4	16.9	7.5	20.4	+ 0.5	2.6	16.1	+ 0.2	76	- 1	[illegible]	13.3	1.3	95	4.2	4.2
12	1017.1	+ 3.0	23.9	17.5	6.4	19.8	0.0	2.3	16.0	+ 0.2	79	+ 2	[illegible]	13.6	6.9	355	5.2	5.5
13	1015.8	+ 1.7	24.0	16.2	[illegible]	19.9	+ 0.1	3.0	14.8	- 1.0	72	- 5	[illegible]	11.7	0.0	..	3.8	6.2
14	1015.5	+ 1.4	24.2	16.2	8.0	20.2	+ 0.4	2.9	15.3	- 0.3	73	- 4	[illegible]	11.8	0.5	10	4.3	6.0
15	1016.3	+ 2.5	24.2	15.6	8.6	20.2	+ 0.4	2.1	16.7	+ 0.9	80	+ 3	[illegible]	11.0	1.0	45	3.7	3.7
16	[illegible]	+ 2.8	24.3	18.2	6.1	20.9	+ 1.1	2.7	16.4	+ 0.6	76	- 1	[illegible]	16.5	2.7	135	3.6	3.1
17	[illegible]	+ 2.3	23.0	17.1	5.9	19.6	- 0.2	1.8	16.7	+ 0.9	83	+ 6	[illegible]	[illegible]	3.7	120	3.4	4.0
18	1015.8	+ 1.7	23.9	15.3	8.6	19.7	- 0.1	2.8	15.0	- 0.8	74	- 3	[illegible]	[illegible]	1.3	50	3.2	3.8
19	1016.2	+ 2.1	24.0	18.3	5.7	20.5	+ 0.7	2.7	16.0	+ 0.4	76	- 1	[illegible]	[illegible]	[illegible]	100	4.2	5.7
20	1016.6	+ 2.5	24.3	18.6	5.7	21.0	+ 1.2	3.9	14.4	- 1.2	66	- 11	[illegible]	[illegible]	.0	...	4.7	3.7
21	1013.5	- 0.6	24.7	18.7	6.0	20.9	+ 1.2	2.0	17.7	+ 2.2	82	+ 5	20.2	16.4	.9	70	4.1	3.4
22	1013.5	- 0.6	24.7	18.7	6.0	20.9	+ 1.2	2.0	17.7	+ 2.2	82	+ 5	20.2	16.4	.9	70	4.1	3.4
23	1012.7	- 1.4	24.2	16.7	7.5	20.2	+ 0.5	2.5	16.0	+ 0.5	77	0	18.2	13.9	.2	10	3.4	4.6
24	1013.6	- 0.5	24.1	15.6	8.5	19.8	+ 0.1	2.9	14.9	- 0.6	73	- 4	16.9	11.7	.2	50	4.1	4.7
25	1016.3	+ 2.2	23.2	17.1	6.1	19.5	- 0.2	3.7	13.0	- 1.5	66	- 11	15.0	13.4	.6	20	4.8	5.3
26	1017.3	+ 3.2	23.9	16.8	7.1	19.8	+ 0.1	4.1	12.6	- 2.9	63	- 14	14.6	13.1	[illegible]	[illegible]	5.4	3.6
27	1017.0	+ 2.9	23.4	17.2	6.2	19.6	- 0.1	2.9	14.7	- 0.8	73	- 4	16.7	13.4	5.7	[illegible]	5.4	6.6
28	1016.1	+ 2.0	23.1	17.1	6.0	19.6	- 0.1	2.5	15.4	- 0.1	77	0	17.5	14.2	1.5	[illegible]	3.9	7.3
29	1015.2	+ [illegible]	24.0	19.3	4.7	21.2	+ 1.5	3.0	16.3	+ 0.8	73	- 3	18.5	16.7	0.0	...	4.0	[illegible]
30	1013.0	- 1.1	24.0	18.9	5.1	21.1	+ 1.4	2.4	17.2	+ 1.7	78	+ 2	19.6	16.3	0.0	...	3.0	[illegible]
31	1012.9	- 1.2	24.9	18.1	6.8	20.9	+ 1.2	2.7	16.4	+ 0.9	76	0	18.6	16.8	0.0	...	2.8	5.2
Mean	1015.8	+ 1.8	24.0	16.8	7.2	20.0	+ 0.2	2.9	15.1	- 0.6	73.8	- 3.1	17.2	13.5	Sum 46.2	Sum 1925	4.0	4.8
Average	1014.0	...	23.7	16.5	7.2	19.8	...	2.4	15.7	...	76.9	...	17.8	13.1	59.6	1281	3.6	5.0
Column	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

General Weather Conditions during the month of J U L Y, 1942

Anticyclonic conditions prevailed except on the 23rd when an extra-tropical depression was moving east well to the south.

Mean pressure was appreciably above normal and temperature, humidity, cloudiness and sunshine were about normal. Rainfall was 78% of the average value but its duration was 50% above the normal.

TABLE VII (Cont'd) - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF JULY, 1942

Month and Day 1942	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the Soil: 10 Feet	Temperature of the Soil: 5 Feet	Temperature of the Soil: 2 Feet	Temperature of the Soil: 12 Inches	WEATHER
JULY	hrs	%	m.p.s.	°C	°C	°C	°C	°C	0h 3h 6h 9h 12h 15h 18h 21h 24h
1	6.2	57	2.5	- 1.3	25.6	25.2	23.1	21.5	bo b bc b bo
2	4.9	45	1.9	- 1.9	25.6	25.3	22.9	21.3	bc cro bc b
3	10.2	94	3.5	- 0.3	25.6	25.2	22.8	21.3	bo b bc b bro
4	8.5	78	4.2	+ 0.4	25.7	25.0	22.7	21.2	bc bcro bc b
5	7.7	71	4.0	+ 0.2	25.7	25.0	22.6	21.1	bcro bc b
6	7.5	69	4.0	+ 0.2	25.5	24.9	22.5	21.0	bcro b bro bcqo oqoro oro cro bc
7	8.3	76	4.3	+ 0.5	25.4	24.9	22.5	21.1	b bco bcqo bcqoro oqoro bcro
8	8.7	80	4.4	+ 0:6	25.4	24.9	22.4	21.1	bcroro b bc cro bc b
9	9.5	87	4.1	+ 0.3	25.4	24.9	22.4	21.4	bo b bc bcqo bc b
10	9.7	89	3.8	0.0	25.4	24.9	22.4	21.5	b bc bcro bro
11	10.0	92	4.5	+ 0.7	25.4	24.7	22.5	21.6	b bcro bcqo bcro
12	9.0	82	4.2	+ 0.4	25.4	24.7	22.5	21.6	bro bcro bqoro bc cro
13	7.5	68	4.0	+ 0.2	25.4	24.7	22.6	21.7	b bc c
14	6.4	58	3.2	- 0.6	25.4	24.7	22.5	21.8	c cro bc b
15	8.7	79	2.7	- 1.1	25.4	24.6	22.6	21.8	b bcro bc b bro
16	9.5	86	4.1	+ 0.3	25.3	24.7	22.6	21.9	bc cro bcro b
17	6.4	58	3.3	- 0.5	25.4	24.6	22.7	22.1	b bcro cqr bcro bc b bcro
18	8.9	81	4.3	+ 0.5	25.4	24.5	22.6	21.9	bo bcro bc bcg bcro b
19	8.9	81	4.9	+ 1.1	25.4	24.5	22.7	21.9	bcro cro bcro bcq bcqoro bc b
20	10.1	92	4.6	+ 0.8	25.4	24.7	22.6	21.7	b bc
21	9.4	85	4.4	+ 0.6	25.3	24.9	22.6	21.8	o bcro bcqo bcro
22	8.3	75	3.7	- 0.1	25.3	24.4	22.6	22.0	bcro bro bc b
23	6.0	54	2.4	- 1.4	25.3	24.4	22.6	22.2	b bro bc c bc b bcro
24	10.1	91	3.5	- 0.3	25.2	24.4	22.7	22.0	cro bcro b bcqo bc b cro bcro
25	9.4	85	3.9	+ 0.1	25.3	24.4	22.7	22.0	cro bc bcqo b
26	10.5	95	4.5	+ 0.8	25.2	24.4	22.6	21.9	bc bq b
27	8.0	72	4.5	+ 0.8	25.2	24.3	22.6	21.7	bcro cro oro cqro bcqo bc b cR
28	[illegible]	57	4.9	+ 1.1	25.2	24.3	22.5	21.6	cro bcro bcqo cq bc
29	0.8	7	3.5	- 0.3	25.2	24.4	22.5	21.7	o c
30	2.4	22	2.0	- 1.7	25.1	...	22.5	22.1	c bq o bc
31	9.3	83	2.6	- 1.1	25.2	...	22.6	22.1	
Mean	7.98	72.5	3.75	- 0.03	25.38	24.72	22.60	21.66	
Average	7.57	68.6	3.78	...	25.23	24.[illegible]2	22.62	21.93	
Column	19	20	21	22	23	24	25	26	27

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF JULY, 1942

Element	Highest	hrs	Date	Lowest	hrs	Date
Atmospheric Pressure	1019.6 mbs	at 22.00 & 09.00	on 4th & 5th	1010.3 mbs	at 3 & 4	on 1st
Temperature of the Air	24.9 °C	at 12.10 & 13.55	on 10th & 31st	13.0 °C	at 06.05	on 1st
Daily range of temperature of the air	11.3 °C		on 1st	4.7 °C		on 29th
Temperature of the Dew Point	...		...	... °C		...
Minimum on grass				9.1 °C		on 1st
Relative Humidity	95.2 %	at 04.00	on 16th	39.9 %	at 12.00	on 5th
Vapour Pressure	22.7 mbs	at 12.00	on 17th	11.2 mbs	at 12.00	on 5th
Evaporaton in 24 hrs	5.4 mms		on 26th & 27th	2.7 mms		on 1st
Wind Velocity	8.7 m.p.s.	at 14.00	on 26th	0.7 mps	at 16 & 21	on 2nd &23rd
Rainfall in 24 hrs	7.9 mms	ending 21.00	on 12th			
Duration of Sunshine	10.5		on 26th	0.8 hr		on 29th

Mean Day Temperature of Air 21.60°C Average ... Mean Night Temperature of Air 18.34°C Average ...

NUMBER OF DAYS OF

Mean Cloud Amount: 0	1 - 3	4 - 6	7 - 9	10	Rainfall: mms 0.1 - 0.9	mms 1.0 - 4.9	mms 5.0 - 9.9	mms 10.0 - 24.9	mms 25.0 & over	Lightning	Thunderstorm
....	5	22	4	...	8	13	2	...	...	...	...

TABLE VIII - ATMOSPHERIC PRESSURE IN MILLIBARS AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level). The cistern of the barometer is 55.2 metres above mean sea level)

JULY, 1942

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	120	133	150	175	191	181	180	176	181	167	179	181	170	160	164	172	Midnight
1	117	131	150	173	189	180	180	176	178	166	175	179	167	160	163	171	1
2	109	130	147	171	184	181	178	171	175	162	171	173	162	158	160	170	2
3	103	130	143	171	180	179	172	168	172	160	171	171	160	154	156	166	3
4	103	130	141	170	176	174	172	164	170	171	170	171	160	151	152	165	4
5	104	131	142	170	179	175	171	166	171	154	170	171	159	151	153	166	5
6	110	133	145	172	181	177	174	170	171	154	171	154	158	153	156	168	6
7	116	140	150	176	187	182	179	174	177	160	175	178	160	156	161	172	7
8	121	145	154	184	191	189	181	179	181	162	181	181	161	160	169	178	8
9	127	149	159	190	196	190	182	181	182	169	186	182	164	166	172	181	9
10	128	146	159	190	192	186	180	181	183	169	184	180	162	169	175	181	10
11	126	142	154	189	189	181	176	175	179	168	181	176	161	161	172	177	11
Noon	120	137	149	185	180	178	170	169	171	161	175	170	159	153	170	171	Noon
13	112	127	141	179	171	170	161	161	162	154	165	162	153	150	159	161	13
14	108	121	141	178	171	166	160	159	159	148	161	160	150	144	154	158	14
15	107	120	141	171	169	164	160	159	153	149	160	158	146	141	152	156	15
16	108	123	143	173	170	166	161	161	154	150	161	157	145	141	152	154	16
17	112	130	151	174	171	171	170	167	158	158	164	160	149	142	157	158	17
18	11[illegible]	134	153	180	177	173	171	170	160	162	169	163	151	146	160	161	18
19	1[illegible]	140	159	182	180	178	176	173	169	169	174	170	156	151	166	168	19
20	1[illegible]	145	164	188	181	180	179	179	171	173	181	171	160	154	170	174	20
21	1[illegible]	150	169	194	182	181	182	181	171	178	186	174	161	162	171	175	21
22	130	151	172	196	185	182	181	180	171	179	187	176	164	164	172	177	22
23	131	150	175	195	182	181	180	181	169	179	184	172	161	167	173	176	23

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
Midnight	174	161	161	170	163	140	132	132	154	178	176	170	161	150	1[illegible]1	162	Midnight
1	171	161	161	166	160	137	130	131	153	176	177	167	160	145	1[illegible]1	161	1
2	169	159	159	163	155	132	129	130	150	172	177	162	153	137	129	157	2
3	165	157	157	162	153	131	126	129	149	170	170	160	150	131	121	154	3
4	162	157	157	163	150	130	124	123	148	166	161	159	149	130	120	152	4
5	1[illegible]	156	155	164	149	130	125	125	150	168	163	157	149	130	122	153	5
6	164	156	159	168	148	132	126	128	151	171	170	160	150	130	128	155	6
7	171	160	163	172	156	140	130	131	158	179	174	160	153	134	131	131	7
8	172	164	166	177	159	141	133	140	164	181	1[illegible]9	165	159	140	138	164	8
9	180	169	170	180	163	147	140	141	173	184	1[illegible]2	170	1[illegible]3	144	141	168	9
10	179	169	171	179	163	145	139	140	171	184	181	176	167	141	140	168	10
11	1[illegible]2	161	168	175	161	141	132	139	170	182	178	170	162	136	137	164	11
Noon	170	158	160	170	153	134	123	134	167	173	171	167	159	130	127	159	Noon
13	161	150	153	161	141	129	116	129	161	166	168	158	150	121	121	151	13
14	158	144	151	156	136	124	110	122	156	160	162	150	144	117	115	147	14
15	153	141	151	157	133	122	110	121	154	160	160	150	141	116	112	145	15
16	150	149	153	158	134	129	113	125	155	160	160	150	140	116	116	146	16
17	151	151	155	160	136	131	121	131	159	163	161	151	141	117	120	150	17
18	153	155	159	160	140	134	126	136	163	167	162	153	144	120	126	153	18
19	1[illegible]9	159	163	162	141	137	130	143	170	171	166	159	149	121	129	158	19
20	1[illegible]	162	169	167	148	141	131	152	177	178	170	163	153	128	137	162	20
21	1[illegible]	164	172	169	150	141	135	141	180	170	165	154	131	141	131	165	21
22	165	164	173	169	149	140	136	159	181	181	170	164	153	135	141	166	22
23	163	164	171	167	141	139	134	158	180	169	162	151	131	180	131	165	23

TABLE IX - AMOUNT OF CLOUD AT EVERY HOUR OF THE DAY (0 - CLEAR SKY, 10 - OVERCAST SKY)

Day / Hour	JULY, 1942																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Midnight	0	4	0	9	6	4	1	6	0	2	2	5	3	8	1	7	2	0	5	1	10	4	3	6	7	4	5	8	10	9	6	4.5
1	0	4	0	7	6	4	1	5	0	2	2	4	3	7	1	8	2	0	5	2	10	4	3	9	7	4	5	8	10	8	6	4.4
2	0	3	0	3	6	4	1	3	0	2	2	2	2	7	1	7	2	0	9	2	10	4	3	9	9	6	6	8	10	8	7	4.4
3	0	2	0	3	6	4	1	2	0	2	2	2	2	8	[illegible]	6	2	0	9	0	10	2	3	9	9	8	8	8	10	8	7	4.3
4	0	5	0	3	6	3	1	2	0	2	2	4	2	8	[illegible]	6	2	0	9	1	10	2	3	4	9	8	8	6	10	8	7	4.3
5	0	7	0	4	6	2	1	2	1	3	1	6	2	9	[illegible]	8	2	4	9	2	3	2	2	4	6	5	9	6	10	9	10	4.4
6	0	9	0	5	1	1	1	2	1	3	1	6	2	9	1[illegible]	9	1	6	7	2	2	2	3	3	5	4	10	6	9	9	10	4.2
7	1	7	0	5	[illegible]	1	1	3	1	3	4	1	2	8	[illegible]	6	3	7	7	2	3	3	3	3	5	4	10	6	10	9	10	4.3
8	2	5	1	5	5	2	2	5	7	3	5	4	5	8	[illegible]	3	5	8	6	2	6	3	6	3	7	4	9	7	9	9	6	5.0
9	3	4	2	5	8	4	3	7	3	3	8	2	8	7	5	3	7	9	6	2	9	3	9	3	9	4	9	8	9	9	3	5.8
10	5	4	2	5	6	5	5	8	7	3	5	3	8	8	5	2	8	7	6	3	4	4	8	3	7	4	8	6	9	8	4	5.5
11	8	4	2	5	7	5	6	8	6	4	5	8	8	7	7	1	9	5	6	4	6	4	7	3	5	3	8	7	9	9	4	5.8
Noon	8	8	2	5	8	5	5	7	5	5	8	6	8	5	8	1	8	2	5	6	4	5	9	4	5	2	8	8	10	9	4	5.9
13	7	6	3	6	5	6	5	6	5	5	7	4	8	6	8	1	8	5	5	6	4	5	8	4	5	2	7	9	10	9	2	5.7
14	4	6	4	9	5	9	5	7	4	5	3	3	8	6	7	1	7	7	6	5	5	5	7	4	5	2	6	10	8	9	2	5.6
15	5	7	4	8	7	9	7	7	3	3	3	4	8	7	5	1	7	4	5	5	6	6	6	4	4	3	4	9	8	10	3	5.5
16	4	8	4	5	8	9	7	5	4	5	2	7	8	7	4	1	6	3	5	4	5	4	5	3	4	2	4	9	8	10	3	5.3
17	3	9	4	2	8	9	8	3	5	8	3	9	8	7	4	0	5	2	4	3	4	2	4	1	3	1	4	9	8	10	3	[illegible]
18	2	9	3	2	7	9	7	3	5	8	6	9	8	4	4	0	3	1	4	7	3	2	3	1	3	1	4	8	8	10	3	4.7
19	0	9	1	2	6	9	9	1	4	5	7	10	8	7	3	1	4	5	4	6	4	3	2	3	3	3	3	9	8	10	3	4.9
20	0	3	1	2	4	3	8	1	3	3	8	8	9	1	3	1	3	5	5	5	5	5	2	8	3	3	3	5	9	10	5	4.3
21	0	2	0	2	3	2	9	1	2	3	6	8	9	1	2	1	0	3	5	5	10	3	3	8	3	3	3	5	[illegible]	6	6	[illegible]
22	0	2	0	2	3	2	7	1	2	3	5	8	9	1	2	1	0	3	4	5	8	3	4	7	3	3	8	5	[illegible]	6	6	3.9
23	0	2	0	2	3	2	7	1	1	3	5	8	9	1	4	1	2	3	2	5	6	3	4	7	3	2	8	5	[illegible]	6	6	3.9

TABLE X - DURATION OF BRIGHT SUNSHINE AT EVERY HOUR OF THE DAY AS RECORDED BY THE CA[illegible]ELL-STOKES SUNSHINE RECORDER

Day / Hour	JULY, 1942																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	hrs
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
7	0	16	25	0	0	1	0	0	10	0	15	14	0	0	2	5	2	0	0	10	2	0	0	0	16	[illegible]	0	13	0	0	0	2.7
8	3	24	60	8	35	41	34	45	50	60	60	22	4	8	50	14	5	19	21	60	60	46	56	51	35	60	30	49	0	3	18	17.2
9	60	37	60	53	50	60	60	60	49	60	40	60	60	30	60	60	13	35	55	60	60	30	35	60	30	60	40	40	0	40	45	24.9
10	30	58	60	60	60	60	60	60	55	60	50	60	40	40	45	60	60	60	60	60	60	60	0	60	48	60	57	41	0	56	60	37.2
11	19	54	60	40	60	60	60	[illegible]	60	60	60	60	42	49	50	60	23	60	60	60	[illegible]	60	46	60	60	60	46	60	0	46	60	26.7
Noon	45	30	60	60	50	60	60	60	60	60	60	56	60	51	25	60	20	60	60	60	[illegible]	49	30	60	60	60	56	40	0	0	60	25.5
13	38	30	60	55	60	60	60	60	27	60	60	60	60	30	60	60	51	60	43	60	[illegible]	48	0	60	60	60	18	40	0	0	60	24.5
14	40	36	60	50	50	46	60	60	58	60	60	60	[illegible]	48	60	60	28	60	60	60	60	45	48	60	60	60	40	60	4	0	60	26.2
15	56	10	60	52	45	15	55	60	60	60	60	60	5	50	60	60	60	60	60	60	49	43	50	60	60	60	60	12	47	0	60	25.8
16	40	0	60	49	54	15	50	51	60	60	60	60	5	36	60	60	60	60	43	60	40	45	60	60	60	60	[illegible]	19	0	0	60	24.5
17	34	0	48	60	0	5	0	50	60	40	60	25	0	38	44	60	60	60	53	[illegible]	54	39	0	58	60	60	[illegible]	4	0	0	60	19.0
18	6	0	0	20	0	0	0	0	20	0	14	0	8	9	6	14	6	3	10	0	0	0	0	12	15	8	15	0	0	0	14	3.0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0

TABLE XI - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the Asbolute Scale add 273)

JULY, 1942

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	15.6	1.6	16.9	2.8	15.4	2.1	17.6	1.3	17.2	2.7	15.3	2.5	17.0	1.4	17.7	0.7	Midnight
1	15.2	1.5	16.2	2.4	17.1	2.1	17.0	[illegible]	16.9	2.2	16.5	[illegible]	16.6	1.4	18.0	0.8	1
2	15.7	1.5	16.1	2.3	16.5	2.3	17.1	2.0	17.2	[illegible]	17.3	1.3	16.4	1.4	18.0	0.9	2
3	15.4	1.5	16.0	2.2	16.7	2.6	17.5	2.7	17.2	2.6	17.1	1.4	16.2	1.3	18.1	1.1	3
4	14.2	1.3	16.0	2.2	16.1	2.1	16.9	2.8	16.6	2.9	17.0	1.5	16.2	1.3	18.0	1.0	4
5	13.5	1.2	16.3	1.9	17.1	2.3	15.0	1.9	16.0	3.3	16.9	1.8	16.5	1.3	18.1	1.1	5
6	13.1	1.2	17.0	1.8	17.7	2.6	15.5	1.3	15.9	2.9	17.8	1.8	16.9	1.3	18.0	1.1	6
7	16.2	1.2	17.1	1.4	18.1	3.0	17.1	3.0	17.0	2.0	17.9	2.2	17.0	1.4	18.1	1.1	7
8	17.7	1.2	18.8	2.8	19.4	3.5	18.2	3.3	18.1	2.7	19.2	2.1	18.0	1.5	19.2	1.1	8
9	20.1	1.9	21.1	4.2	21.1	4.1	20.1	5.7	20.5	5.5	20.6	3.6	20.3	2.7	21.0	2.1	9
10	21.6	3.8	22.1	4.2	21.8	3.2	21.7	6.7	22.1	6.2	22.2	4.8	21.9	4.2	20.8	2.2	10
11	22.1	4.3	22.9	4.9	[illegible]	6.1	21.0	5.7	23.0	6.7	22.8	5.4	22.2	4.4	19.6	0.6	11
Noon	23.4	5.1	22.9	5.2	[illegible]	5.7	22.1	6.5	23.0	7.7	22.6	5.6	23.0	5.0	22.4	3.3	Noon
13	23.3	5.6	23.1	5.0	23.9	6.3	21.6	5.6	23.4	6.8	23.6	6.2	22.8	5.2	23.3	[illegible]	13
14	23.7	6.2	22.7	4.6	23.9	6.4	23.9	4.3	21.9	5.0	21.3	3.8	23.1	5.3	23.0	4.7	14
15	23.1	5.8	22.3	4.6	23.1	6.4	21.0	4.9	22.3	5.1	20.2	3.1	22.7	5.5	22.9	4.7	15
16	22.0	4.9	22.0	4.2	22.6	5.7	20.3	5.2	21.9	5.7	21.1	3.5	21.5	4.4	22.0	4.2	16
17	21.0	4.2	21.0	2.7	21.7	4.7	20.2	5.0	21.0	5.0	18.2	1.2	19.1	1.8	21.2	3.9	17
18	19.3	2.8	20.0	2.7	20.0	3.5	19.3	4.2	19.8	3.7	18.0	1.4	18.7	1.8	20.1	3.2	18
19	18.7	3.3	19.2	2.9	19.1	3.4	18.0	4.1	18.6	3.2	18.0	1.1	18.3	1.3	19.5	2.7	19
20	17.8	2.7	18.2	2.2	17.1	4.4	18.7	3.3	19.0	3.3	17.8	1.3	18.4	1.8	19.2	2.3	20
21	17.3	2.3	18.1	2.9	16.6	2.8	17.9	3.2	19.1	3.5	18.0	1.7	18.0	0.9	19.1	2.1	21
22	17.6	2.6	17.9	3.0	18.1	2.5	16.9	3.1	19.0	4.0	17.7	1.5	18.0	1.0	19.1	2.1	22
23	16.6	2.4	17.3	3.0	17.3	1.2	16.2	2.4	16.1	2.5	17.4	1.4	18.0	0.7	19.0	2.0	23

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	18.9	2.2	18.3	1.3	19.5	1.5	18.7	1.4	18.1	1.1	18.4	3.8	16.9	1.8	20.0	0.9	Midnight
1	19.1	2.1	18.1	1.3	19.2	1.7	18.8	1.2	17.0	1.8	18.9	3.0	15.9	1.8	19.8	0.8	1
2	19.1	2.1	17.8	1.4	19.1	1.7	19.1	1.0	17.0	1.8	19.1	4.9	15.9	1.7	20.0	0.9	2
3	19.0	2.2	17.0	1.0	18.9	1.8	[illegible]	1.4	16.6	1.7	18.1	3.1	16.1	1.1	19.7	0.7	3
4	19.0	2.2	16.1	1.1	18.7	1.8	[illegible]	1.4	17.2	1.9	17.1	2.1	17.9	1.2	19.5	0.5	4
5	18.6	1.7	16.9	0.9	17.5	[illegible]	[illegible]	1.4	17.3	2.1	16.3	1.8	18.1	1.1	19.3	0.5	5
6	19.0	1.9	17.8	1.1	17.2	1.1	18.3	1.2	17.1	2.0	18.9	2.3	18.1	1.0	19.3	0.5	6
7	19.0	1.4	17.7	1.1	18.0	1.8	18.0	1.0	16.9	1.9	18.0	1.7	18.7	1.0	19.1	1.0	7
8	20.2	1.9	19.3	1.3	20.0	2.4	19.0	1.0	18.2	1.5	19.1	1.1	20.1	1.8	20.0	1.7	8
9	21.1	2.2	22.3	2.5	21.2	3.0	21.1	2.8	21.0	3.0	21.6	3.5	22.1	2.9	22.1	3.0	9
10	22.1	3.0	22.7	3.6	20.8	3.5	22.2	4.0	22.0	3.9	21.3	2.3	21.2	1.3	23.0	3.8	10
11	23.9	5.1	24.0	4.8	22.2	4.3	22.4	4.6	22.0	3.6	23.1	4.0	23.0	3.8	23.7	4.5	11
Noon	23.7	4.6	24.7	4.8	23.1	5.1	22.9	4.6	23.1	4.9	23.4	4.4	22.4	2.8	24.0	5.9	Noon
13	22.8	4.0	23.2	3.8	23.8	5.5	[illegible]	5.9	23.7	4.8	23.1	3.8	23.9	4.0	24.1	6.1	13
14	23.0	4.1	24.1	4.2	24.4	5.4	23.1	5.5	23.1	5.0	24.0	5.2	24.0	4.3	24.0	5.8	14
15	23.0	4.4	23.9	4.2	23.7	4.5	22.9	5.0	22.9	4.7	22.9	3.3	23.9	4.4	23.6	6.0	15
16	22.1	3.9	23.0	2.9	23.1	3.8	21.9	3.9	22.2	3.5	22.8	3.7	23.2	3.9	23.1	5.1	16
17	21.6	3.3	21.3	2.1	22.0	2.9	20.1	2.1	21.2	3.0	21.8	2.5	22.2	2.9	22.1	4.5	17
18	20.6	2.8	20.2	1.0	20.6	2.8	18.9	1.7	20.3	2.7	21.1	2.5	21.0	1.9	20.6	2.8	18
19	20.0	2.6	20.2	1.3	20.0	2.3	18.4	1.1	20.2	2.9	20.8	2.6	20.0	1.1	19.7	2.4	19
20	19.9	2.3	19.4	1.4	20.0	2.1	18.2	1.1	20.1	3.1	20.7	3.4	19.8	1.0	19.2	2.1	20
21	19.3	1.7	19.3	0.7	19.1	1.3	18.1	1.3	20.2	3.2	19.1	2.4	19.8	1.1	19.1	2.0	21
22	19.2	1.9	19.2	1.1	19.2	1.2	18.2	1.2	20.6	3.7	18.0	2.0	19.2	1.0	18.6	1.6	22
23	19.2	1.9	19.7	1.1	19.0	1.1	18.1	1.2	20.1	4.2	17.2	1.5	19.6	0.9	18.6	1.8	23

TABLE XI (Ctd) - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

JULY, 1942

Day / Hour	17		18		19		20		21		22		23		24		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	18.2	1.6	18.1	1.1	19.3	2.1	19.7	3.6	19.6	3.4	18.7	1.0	19.7	1.1	18.3	1.7	Mid-night
1	18.0	1.7	19.5	1.9	17.4	1.3	20.1	3.8	20.1	4.0	19.0	1.3	19.9	1.6	18.3	1.8	1
2	18.2	1.6	17.3	1.4	18.9	1.6	19.3	3.5	20.2	4.3	19.1	1.0	19.3	1.3	17.8	1.6	2
3	18.5	1.6	17.1	1.4	18.5	1.2	19.0	2.9	19.7	3.4	19.2	0.9	19.1	1.1	17.7	1.2	3
4	[illegible]	1.6	16.2	1.2	19.0	1.1	19.1	2.1	19.2	3.0	19.1	1.0	19.0	1.1	16.8	1.2	4
5	17.3	1.3	15.3	1.1	18.8	1.7	19.4	3.1	19.5	3.3	19.1	1.0	18.1	1.1	17.3	1.2	5
6	17.2	1.1	16.1	1.1	19.2	1.5	19.1	2.3	19.1	3.5	19.1	1.0	17.9	1.3	16.3	1.3	6
7	18.5	1.7	17.2	1.3	19.0	1.3	19.2	2.6	19.1	2.1	19.3	0.7	17.9	1.2	17.6	1.2	7
8	19.1	1.2	18.1	1.8	19.8	1.6	20.9	3.3	20.5	2.5	20.4	1.2	20.6	1.6	19.2	1.9	8
9	20.4	1.1	20.0	3.4	21.4	2.2	22.7	5.5	20.1	2.2	22.1	2.1	21.0	1.7	21.6	3.7	9
10	22.4	2.5	22.0	4.7	22.1	2.8	23.2	6.2	22.8	4.7	23.1	2.8	22.1	3.0	22.9	4.9	10
11	21.6	1.6	22.7	6.0	22.1	3.0	23.9	5.8	23.7	6.1	24.0	3.8	22.6	3.4	23.3	5.7	11
Noon	21.2	1.1	23.2	6.2	23.1	3.9	24.2	6.2	24.0	5.8	23.8	3.8	23.1	4.0	23.9	6.6	Noon
13	21.2	1.6	23.7	5.6	23.0	3.9	23.1	5.5	24.2	6.0	24.0	4.0	22.9	4.1	23.8	6.2	13
14	21.3	2.0	23.1	4.8	23.0	3.8	23.7	5.5	23.7	5.6	23.2	3.2	23.6	5.1	23.8	6.2	14
15	22.0	2.0	23.0	4.9	22.1	2.8	23.0	4.8	23.1	5.0	23.8	3.7	23.0	5.6	23.1	5.4	15
16	22.5	3.7	22.7	4.7	22.0	3.2	22.3	5.0	22.1	3.8	23.8	3.7	23.1	5.1	22.5	5.4	16
17	21.3	3.3	21.7	4.0	21.4	3.2	21.6	4.2	21.2	3.2	22.0	2.7	22.1	4.0	21.1	4.1	17
18	20.0	2.7	20.7	3.6	20.4	3.4	20.3	3.4	19.7	2.0	20.7	1.8	20.3	2.9	19.9	2.6	18
19	19.1	2.2	19.5	1.8	20.0	3.4	19.8	3.0	19.1	1.8	20.3	2.2	18.9	2.1	19.0	2.0	19
20	18.9	1.9	19.3	1.2	19.9	3.8	20.0	3.0	19.7	1.9	20.2	1.7	17.5	1.6	18.3	1.6	20
21	19.0	1.6	19.1	1.2	19.9	3.6	19.4	1.7	19.9	1.7	20.0	1.8	16.9	1.8	18.2	1.1	21
22	19.0	1.2	19.4	1.3	19.9	4.1	19.9	2.3	19.1	1.0	19.9	1.9	17.1	1.5	18.0	1.7	22
23	18.3	1.0	19.8	2.0	20.1	4.2	19.9	2.2	19.2	1.3	19.7	1.4	18.2	1.2	18.1	1.2	23

Day / Hour	25		26		27		28		29		30		31		Mean		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	17.1	1.2	17.3	2.7	18.2	3.2	18.2	1.2	20.1	3.0	19.3	1.3	19.2	1.2			night
1	17.9	1.7	17.0	2.2	18.1	2.0	18.1	1.2	20.2	3.0	19.2	1.2	19.3	1.2			1
2	18.0	1.7	17.1	2.4	17.7	1.5	17.9	1.6	20.1	3.0	19.0	1.1	19.6	1.5			2
3	17.8	1.5	18.1	2.8	17.7	1.3	17.8	1.1	20.0	2.8	19.0	1.1	19.3	1.1			3
4	17.8	1.7	18.1	3.0	17.4	1.8	17.8	1.2	19.9	2.6	19.2	1.1	19.3	1.1			4
5	17.7	2.1	17.6	2.9	18.0	1.9	17.6	1.3	19.9	2.2	19.2	1.1	19.2	1.1			5
6	17.8	2.7	17.1	2.1	17.6	1.2	17.1	1.1	19.9	2.1	19.2	1.1	19.3	1.1			6
7	18.2	3.1	17.7	3.0	17.4	1.1	17.7	2.4	19.1	2.0	20.0	1.0	19.0	1.7			7
8	18.7	2.9	19.5	4.4	18.1	1.2	19.1	3.0	20.8	2.6	20.8	1.6	20.6	2.0			8
9	20.2	4.1	21.7	5.1	19.0	1.7	20.0	3.1	21.1	2.5	22.2	2.6	22.3	3.2			9
10	21.7	5.6	22.1	5.5	20.9	3.6	21.2	3.2	22.2	3.5	23.1	3.4	23.0	4.9			10
11	22.8	6.2	23.0	6.7	22.2	4.5	22.1	4.1	22.9	4.1	24.0	4.1	24.0	4.4			11
Noon	22.7	6.1	23.1	6.7	22.1	4.8	21.3	3.3	23.1	4.2	23.6	3.8	24.1	4.8			Noon
13	22.6	6.5	23.2	5.7	22.9	5.8	22.2	4.0	23.2	4.1	23.8	4.6	24.2	5.4			13
14	22.9	6.4	22.9	5.8	22.1	5.1	22.4	4.3	23.8	4.6	23.2	4.1	24.6	5.6			14
15	22.4	6.2	22.4	5.3	22.8	5.8	21.6	3.5	23.3	4.1	22.9	4.2	24.1	5.0			15
16	21.8	5.6	21.9	5.0	22.1	5.5	21.0	2.8	22.8	4.0	22.9	4.2	23.2	4.3			16
17	20.7	4.7	20.6	4.4	21.1	4.2	20.0	2.3	22.1	3.4	22.3	3.3	22.2	3.6			17
18	19.3	3.7	19.9	4.0	20.0	3.0	19.2	2.2	21.4	3.1	21.9	2.8	21.1	3.0			18
19	18.2	3.1	19.1	3.3	19.1	2.5	19.0	2.0	21.1	3.0	21.3	2.2	19.9	2.2			19
20	18.0	3.2	19.1	3.2	18.9	2.7	19.1	2.0	21.0	2.7	20.9	1.9	19.0	1.8			20
21	18.1	2.9	18.9	3.8	19.1	2.1	18.9	2.0	20.9	2.7	20.1	1.5	18.7	1.6			21
22	17.6	3.0	18.4	3.4	19.0	1.8	19.3	2.1	20.3	2.0	19.9	1.5	18.6	1.7			22
23	17.6	3.3	18.1	3.0	18.2	0.7	20.0	3.0	20.0	1.8	19.9	1.5	18.2	1.5			23

TABLE XII - DIRECTION AND VELOCITY OF THE WIND AT EVERY HOUR OF THE DAY AS RECORDED BY THE ROBINSON CUP ANEMOMETER DURING J U L Y, 1942

The directionsare given in points and the values indicate the direction from which the wind blows counting from North (0), East (8), South (16) and West (24)

The velocities are given in metres per second, using the factor 2.2)

(The days on which the Normal Trade Winds are interrupted are indicated by an asterisk *)

J U L Y, 1942

Hour \ Day	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Mid-night	15	1.6	13	1.8	16	1.6	12	2.1	11	1.8	13	2.2	10	2.9	11	3.4	11	4.1	11	2.5	08	3.7	12	3.3	10	1.3	11	3.6	10	1.2	11	2.1
1	15	1.9	16	1.9	15	2.9	11	2.1	11	2.4	13	2.6	11	2.2	10	4.0	12	3.9	11	2.4	10	4.7	12	2.5	10	2.6	11	1.6	10	1.7	11	2.9
2	15	1.6	16	1.9	15	1.6	16	2.9	11	3.3	12	2.4	11	2.1	11	3.2	12	4.4	11	1.6	10	5.1	10	3.7	11	2.1	10	2.4	10	2.1	10	3.1
3	15	1.7	15	2.2	15	1.9	13	4.2	12	2.7	12	2.2	11	2.7	11	3.3	12	3.8	11	1.2	10	4.4	10	3.0	11	2.6	10	1.8	08	1.8	10	3.7
4	15	1.3	15	2.0	15	1.8	13	3.5	11	2.8	11	3.1	11	3.0	11	3.4	12	2.7	11	1.6	11	3.1	10	2.1	11	2.3	10	2.0	08	3.1	10	2.9
5	15	1.2	15	1.8	15	2.8	13	1.4	11	2.8	12	2.2	11	3.2	11	3.5	12	3.3	11	2.0	11	2.5	10	2.1	11	1.9	10	1.9	09	2.1	09	3.7
6	15	1.9	15	1.3	15	2.6	11	2.9	11	2.6	11	3.3	12	3.1	11	3.2	12	3.5	11	2.0	11	1.8	10	3.8	11	1.9	08	2.6	10	2.0	11	4.3
7	15	1.3	15	0.9	16	3.5	12	3.8	11	2.8	12	3.9	12	3.8	11	2.9	10	3.1	11	2.0	11	2.5	12	3.3	11	1.7	08	1.5	10	1.7	10	3.2
8	14	1.0	15	2.2	15	3.3	11	4.3	11	2.4	10	4.3	12	4.1	12	4.3	11	4.2	11	2.4	11	2.6	11	2.8	11	2.0	09	2.9	10	1.8	10	5.1
9	14	1.8	16	1.9	16	3.3	11	6.5	11	3.3	11	4.0	11	4.5	09	4.7	11	4.5	10	3.4	10	5.4	09	5.0	10	5.0	11	3.2	10	3.5	09	4.9
10	13	3.2	13	2.7	15	5.9	10	6.4	11	5.8	09	5.9	10	6.4	11	5.2	12	4.9	10	4.6	10	5.6	11	6.9	10	4.8	09	4.4	10	3.7	10	5.9
11	12	3.9	14	2.9	14	5.2	11	6.6	10	6.2	09	6.8	12	6.7	08	3.2	11	4.8	11	4.8	09	6.4	09	6.4	09	6.3	09	4.1	11	4.4	10	6.6
Noon	11	3.6	12	3.3	12	5.6	13	7.5	09	6.1	11	6.7	11	6.8	10	6.5	10	5.9	12	5.4	08	7.3	11	6.2	09	7.2	09	5.2	11	3.8	12	6.7
13	13	2.7	14	3.0	12	5.9	13	7.0	10	6.3	09	6.0	12	6.7	11	6.8	10	6.5	10	5.1	10	6.2	09	6.7	10	6.1	09	4.8	10	4.3	10	7.4
14	13	4.3	11	2.4	14	6.7	11	6.7	10	6.2	12	5.6	12	6.5	09	7.1	11	6.7	10	6.2	11	7.1	10	4.4	12	5.4	08	5.1	11	4.3	09	6.6
15	13	4.3	15	1.1	12	6.5	11	6.0	10	5.9	10	5.4	13	6.6	12	7.0	12	5.8	10	6.3	10	6.3	11	8.4	10	6.6	08	5.2	11	3.5	10	5.7
16	13	4.4	12	0.7	13	5.1	10	6.3	12	5.3	12	5.6	12	5.9	09	6.3	11	5.3	10	5.7	11	6.2	09	5.5	11	5.8	08	5.1	11	3.9	11	5.9
17	12	3.4	06	1.1	13	3.7	10	4.7	12	4.2	10	3.5	12	4.3	10	4.5	12	4.7	09	5.4	10	5.0	11	6.5	12	4.9	10	3.4	11	3.0	11	3.7
18	11	3.3	11	1.5	11	2.1	11	3.1	12	3.5	12	3.4	12	3.0	11	4.6	11	4.2	09	4.4	10	3.2	10	4.3	11	3.7	08	3.3	11	2.2	11	2.5
19	13	2.6	12	1.8	13	2.1	11	2.5	12	3.1	11	3.9	12	3.4	11	3.8	12	2.6	09	4.4	11	3.2	11	4.8	10	4.8	10	3.0	11	2.3	11	2.3
20	13	2.6	12	1.1	13	0.7	12	3.4	13	4.9	11	4.4	11	3.4	12	3.7	11	2.9	10	4.2	11	3.7	10	2.2	10	3.9	09	3.7	11	2.2	11	2.3
21	13	2.6	13	1.6	13	1.3	12	2.8	13	5.5	10	3.5	12	3.9	11	4.5	11	2.7	08	4.6	11	3.9	10	3.7	10	4.0	10	2.3	11	2.1	11	2.2
22	13	2.9	16	2.1	13	3.4	12	2.5	13	4.4	10	2.8	12	3.5	11	3.9	12	2.7	10	5.1	10	3.1	09	2.6	10	4.5	10	1.9	11	1.9	11	2.5
23	13	2.8	16	2.0	11	3.2	12	2.6	13	1.8	10	2.6	10	4.6	11	3.1	11	2.8	10	4.4	10	4.0	10	1.8	10	2.5	10	1.8	11	2.4	11	2.3

Hour \ Day	17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		Mean Velocity
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	
Mid-night	12	1.8	12	1.9	11	3.5	10	3.3	10	3.6	12	3.2	11	1.6	14	2.7	15	2.2	12	2.0	12	3.4	11	4.0	10	3.9	10	1.9	07	1.4	2.6
1	11	1.8	12	1.7	10	3.9	10	4.2	10	3.4	12	3.7	12	2.3	13	3.8	15	2.3	12	1.9	12	3.2	11	3.8	09	4.2	10	2.2	07	0.9	2.8
2	12	1.8	11	1.9	10	3.6	09	3.8	10	3.8	11	3.6	12	2.1	11	2.3	14	3.2	12	2.6	10	3.6	11	4.4	09	3.9	10	2.6	08	1.4	2.8
3	12	2.1	14	1.8	10	4.1	10	2.7	12	4.4	12	3.1	12	2.0	11	2.5	14	2.5	12	3.4	10	2.3	11	3.4	10	3.1	10	2.2	08	2.1	2.7
4	12	2.5	13	2.0	11	3.6	11	3.1	12	4.5	11	2.4	10	1.7	11	1.2	13	3.5	12	3.5	12	2.9	08	4.4	10	2.4	10	1.8	08	2.1	2.7
5	13	1.5	13	1.6	12	4.6	10	3.8	10	4.2	11	3.0	10	1.4	14	1.8	14	3.5	12	3.7	12	2.7	11	4.4	10	2.4	10	2.0	10	1.9	2.6
6	12	1.9	13	2.7	12	4.4	10	3.6	09	4.1	11	2.9	11	1.0	14	2.4	14	2.7	12	2.4	10	3.8	11	3.8	10	3.1	10	1.3	10	1.5	2.7
7	08	3.8	12	3.6	10	4.4	10	3.5	09	3.7	10	3.1	11	1.0	11	3.4	15	2.7	12	3.2	11	4.3	10	4.4	10	2.6	10	1.6	10	2.0	2.9
8	09	1.9	11	4.4	10	4.2	11	3.3	09	4.1	12	2.2	11	1.2	12	2.7	14	3.1	11	3.2	12	3.4	10	4.4	09	3.4	10	1.7	10	2.0	3.1
9	07	2.5	11	4.2	09	4.6	10	6.2	09	4.7	10	5.4	11	2.0	11	3.8	13	4.1	11	4.9	12	4.8	10	5.2	11	4.1	08	2.4	09	2.7	4.1
10	10	4.6	11	6.3	10	7.3	09	6.8	10	6.4	11	4.4	12	3.6	12	6.2	13	6.0	11	6.8	10	6.2	10	6.3	08	4.4	08	3.4	07	3.2	5.3
11	09	4.2	11	6.7	09	6.4	09	7.6	09	6.8	11	5.8	12	3.9	10	6.1	13	6.2	10	7.3	11	6.5	12	6.6	09	4.7	06	2.8	08	3.6	5.5
Noon	10	4.1	11	5.3	09	7.0	10	7.4	09	6.1	10	5.2	09	3.4	12	5.1	11	6.0	10	7.2	09	7.0	10	7.1	08	4.6	06	3.4	07	4.1	5.7
13	11	5.4	11	8.5	10	7.8	09	7.4	09	6.9	12	5.0	10	4.6	11	4.4	12	6.9	11	7.5	10	6.6	11	6.3	08	5.0	03	2.9	08	3.5	5.8
14	12	5.0	10	7.7	10	6.6	10	6.1	09	5.8	12	5.1	11	5.1	12	5.3	10	6.7	12	8.7	11	6.4	10	6.7	06	4.7	04	2.5	10	3.8	5.7
15	09	5.6	10	7.7	09	6.8	11	7.0	10	5.7	11	5.3	11	4.5	12	4.4	12	6.3	11	6.6	12	6.0	11	6.0	06	4.4	07	2.1	08	3.8	5.6
16	12	6.3	12	6.0	09	5.3	10	5.9	11	5.0	11	4.9	12	3.4	13	4.7	12	6.3	12	7.1	10	5.4	10	5.1	07	4.3	06	1.8	08	3.9	5.1
17	11	5.5	11	5.6	11	5.9	10	4.7	10	4.6	12	4.5	13	3.2	13	4.6	13	5.4	12	5.9	11	5.5	09	5.3	08	3.9	07	1.8	08	3.2	4.4
18	10	4.8	10	3.8	10	4.4	10	5.0	12	2.9	11	4.3	13	1.8	13	3.3	12	3.4	12	3.7	12	4.1	11	4.2	08	3.0	07	1.3	08	2.3	3.3
19	11	2.4	10	3.3	11	4.2	11	1.4	12	2.4	11	2.9	13	1.0	14	3.3	12	2.3	12	4.0	12	3.6	12	4.1	08	2.4	07	0.9	08	1.8	2.9
20	11	2.1	11	4.7	10	3.1	11	3.0	11	2.7	12	3.2	13	1.1	14	2.1	12	2.0	13	4.0	12	3.4	11	3.8	08	2.4	07	0.9	08	1.7	2.9
21	11	2.4	11	3.3	11	3.6	09	3.3	12	2.4	14	1.6	13	0.7	14	2.5	13	2.5	12	3.2	11	4.0	11	3.3	08	2.2	07	1.1	08	2.2	2.9
22	11	3.0	12	4.4	07	4.0	10	3.6	11	3.4	14	1.6	13	1.2	14	2.9	13	1.3	12	2.7	12	4.4	10	3.7	08	2.1	07	1.1	08	3.6	3.0
23	12	2.1	12	4.6	07	3.9	09	4.0	11	3.1	10	2.5	15	2.2	14	1.4	13	1.9	12	2.9	11	3.8	09	4.5	09	4.5	09	2.4	09	3.8	2.9

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS) JULY, 1942

Force (0-12)				Direction															
Hour	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
3	-	-	31	-	-	-	-	2	9	15	2	3	-	-	-	-	-	-	-
9	-	2	29	-	-	-	-	8	7	13	1	2	-	-	-	-	-	-	-
15	-	20	11	-	-	-	1	5	8	16	-	1	-	-	-	-	-	-	-
21	-	[illegible]	30	-	-	-	-	5	4	21	1	-	-	-	-	-	-	-	-
Totals	-	-	-	-	-	-	1	20	28	65	4	6	-	-	-	-	-	-	-

TABLE XIVa - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY FOR JULY, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	..	..	..	1.2	..	..	..	0.8	..	..	0.1	0.1	..	..	..	1.5	..	0.1	..	..	..	0.7	..	0.2	..	..	..	2.1	..	..	..
2	..	..	..	0.8	..	..	..	0.8	..	..	0.1	1.8	..	..	..	1.2	..	..	0.3	..	..	0.4	..	1.3	0.5	0.1	0.3	2.4	..	..	..
3	..	..	..	..	0.2	2.5	..	0.3	..	..	..	0.5	..	..	..	0.6	..	0.2	0.7	..	..	..	0.1	0.2	..	0.5	0.3	1.5	..	..	..
4	0.3	..	..	..	..	..	..	0.1	..	0.3	..	..	..	..	..	1.0	..	..	0.6	..	..	..	..	0.1	0.2	..	..	1.4	..	..	..
5	..	..	..	..	..	0.4	0.1	..	..	..	..	0.1	..	..	0.2	1.0	..	..	..	..	..	0.1	..	..	..	..	..	0.1	..	..	..
6	..	..	..	0.4	..	0.5	..	0.1	..	..	..	0.3	..	..	..	0.8	..	..	0.8	..	..	0.2	..	0.1	..	..	..	0.5	..	..	..
7	..	..	..	..	..	0.7	0.2	0.4	..	..	..	0.6	..	..	..	0.9	0.2	0.2	0.3	..	0.1	0.2	0.5	0.8	..	..	2.4	..	..	..	..
8	..	..	..	..	..	..	..	0.5	..	..	..	0.2	..	..	..	0.1	..	0.1	1.3	..	0.2	1.0	..	0.5	..	..	0.3	..	..	..	..
9	..	..	..	..	..	0.6	..	1.2	..	..	..	0.5	..	1.0	..	..	1.0	..	0.9	..	0.1	0.2	0.4	0.1	..	..	1.1	..	..	..	..
10	..	..	..	..	..	0.3	..	0.1	..	..	..	0.8	..	..	..	..	..	..	1.3	..	..	..	1.5	..	..	..	0.4	..	..	..	..
11	..	..	..	..	..	..	..	0.2	..	..	..	..	0.2	..	..	..	3.2	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..
12	..	..	..	..	..	0.3	..	0.1	..	..	..	..	..	..	..	..	0.1	..	0.7	..	..	..	0.3	..	..	..	0.7	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	5.0	..
14	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	0.7	..	..	..	..	..	..	..	..	0.1	..	..	..	2.0	..
15	..	..	..	0.1	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..
16	..	..	..	..	0.1	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	0.6	..
17	..	..	..	..	..	..	..	..	..	..	..	0.2	0.1	..	..	..	..	..	0.1	..	..	..	..	..	..	..	0.3	..	..	..	..
18	..	..	..	..	..	1.0	0.8	..	..	0.1	..	0.5	..	..	0.1	..	..	..	..	..	..	..	..	0.3	0.1	..	..	..	..	..	..
19	..	..	..	..	..	0.2	0.5	..	..	..	..	1.0	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..
20	..	..	..	..	..	0.2	0.2	..	..	0.3	..	0.5	0.1	0.4	..	..	0.2	1.1	0.1	..	0.4	..	..	0.2	..	..	1.0	..	..	..	..
21	..	..	2.4	..	..	0.8	1.2	..	..	0.1	0.2	0.5	..	..	..	..	0.6	1.0	..	..	0.1	..	0.2	0.6	..	..	..	..	..	..	..
22	..	..	0.8	..	..	0.1	0.3	..	..	..	0.1	0.1	..	..	..	..	0.9	0.8	..	..	1.4	..	0.1	0.3	..	..	4.3	..	..	..	..
23	..	..	0.4	..	..	..	0.0	..	..	..	0.8	..	..	..	0.1	..	0.6	..	..	0.1	0.8	0.2	1.3	0.1	..	..	0.5	..	..	..	..
24	..	..	0.9	..	..	..	2.0	..	..	..	2.0	..	..	..	0.4	..	0.1	..	..	..	1.5	..	0.9	1.2	..	1.0	0.6	..	..	..	..

TABLE XIVb - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR JULY, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	..	..	..	..	..	..	..	2.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..
2	..	..	..	..	0.2	0.2	..	0.2	..	..	..	1.6	..	..	..	..	..	..	0.3	..	..	..	..	..	0.5	..	0.2	0.1	..	..	..
3	..	..	..	..	..	..	..	0.1	..	..	..	0.3	..	..	..	..	..	..	1.3	..	..	0.2	..	0.2	0.1	..	0.3	1.0	..	..	..
4	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	0.6	..	..	0.6	..	..	0.1	0.1	0.2	..	..	..	0.2	..	..	..
5	..	..	..	0.1	..	..	..	..	..	..	..	0.3	..	..	..	1.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	0.2	..	..	..	..	..	0.1	..	..	..	..	0.2	0.1	..	..	..
7	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	0.5	..	0.2	0.6	..	..	0.5	..	..	..	..	0.1	..	..	..	..
8	..	..	..	..	..	..	..	0.2	0.1	..	..	0.2	..	0.5	..	..	..	0.1	0.2	..	..	..	..	..	..	..	0.7	..	..	..	..
9	..	..	..	..	..	..	0.2	..	..	..	..	0.2	..	..	..	..	0.6	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	0.4	..	0.3	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..
11	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	0.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	0.2	..	..	..	0.3	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	..	..	..	..	0.1	..	..	..	0.6	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	0.7	0.7	..	..	..	..	2.2	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	0.1	..	..	..	0.1	..	0.1	..	..	..	..	..	..	1.1	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	0.1	1.5	..	..	1.2	..	0.4	..	..	..	..	..	0.2	..	..	0.2	..	..	0.6	..	..	..	..	..	..	..
22	..	..	1.0	..	..	..	0.2	..	..	0.3	0.5	0.1	..	..	..	..	0.8	..	..	..	0.1	..	..	..	..	..	0.1	..	..	..	..
23	..	..	0.2	..	..	..	1.7	..	..	0.1	0.4	0.2	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	3.5	..	..	..	..
24	..	..	..	..	..	..	0.2	..	..	0.5	0.1	..	..	..	0.6	..	..	..	..	..	0.3	..	0.1	..	..	..	0.3	..	..	..	..

TABLE XV - TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR J U L Y, 1942

RIVER SYSTEM	S T A T I O N S	Approximate Altitude in feet	Total Fall		Normal in Inches	Number of Days
			Inches	Millimetres		
1	Mare Seche	20	2.03	51.6	2.32	12
	St Antoine	50	.91	23.1	2.72	8
	Bel Mont	50	1.38	35.1	2.86	4
	Mondre d'Or	20	1.21	30.7	2.89	4
	Mon Loisir S.E.	300	2.20	55.9	3.54	15
	Forbach	300	1.83	46.5	2.08	10
	Couroupa	...	1.58	40.0	3.07	6
	Labourdonnais	290	1.60	40.5	3.10	10
	Mapou Water Works Office	...	1.45	36.8	...	7
	Beau Sejour	300	2.52	64.0	4.16	15
	Mont Piton	650	2.50	63.5	4.16	11
	Mon Choix	700	1.94	49.3	3.54	11
	Antoinette	640	3.35	85.1	3.96	16
	Mon Songe	620	2.28	57.9	4.23	11
	Botanical Gardens	325	1.97	50.1	3.11	19
	The Observatory	179	1.82	46.2	2.28	23
	Solitude	175	...	...	1.34	..
	St Andre Cour	90	...	...	1.90	..
	La Nicoliere	...	3.23	82.0	4.89	31
	California	...	3.39	86.1	...	14
	Australia	...	...	...	...	..
2 & 3	Union Regnard Macq S.E.	600	1.98	50.3	4.83	13
	Constance d'Arifat L.G.	100	1.92	48.8	3.73	12
	Rich Fund	600	3.44	87.4	4.79	19
	La Joffrette	...	3.35	85.1	...	14
	Belle Vue Allendy	...	1.88	47.8	4.07	14
4	Sans Souci	900	7.92	301.2	9.73	27
	Beau Champ G.R.S.E.	20	2.18	55.4	3.19	21
	Olivia	400	3.82	97.0	5.57	22
	Trois Ilots	...	...	..	...	..
	Belle Rive	400	5.10	129.5	...	24
	Sebastopol	700	...	...	...	..
	Bonne Veine	400	6.19	157.2	7.60	23
5	Rose Belle	850	6.90	175.3	8.40	26
	New Grove	650	5.58	141.7	8.48	26
	Mon Tresor	...	10.19	258.8	...	20
	Mont Desert Carie	75	2.23	56.6	2.98	17
	Ferney	20	3.55	90.2	5.00	19
	Sauveterre	...	1.85	47.0	...	11
	Tivoli	1300	8.25	209.6	9.38	25
	La Flora	1050	6.90	175.3	8.67	25
	Riche Bois Britannia	650	3.80	96.5	6.92	18
6	Britannia Estate	700	4.79	121.7	6.45	22
	Savannah Mill	200	2.60	66.0	3.86	15
	St Aubin	300	2.11	53.6	4.53	15
	St Avold	900	5.69	144.5	7.35	23
	Colmar	400	4.28	108.7	5.27	19
	Union S.E.	...	3.65	92.5	3.95	13
	Fontenelle	320	2.47	62.7	4.89	12
	Choisy	200	5.01	127.3	2.90	19
	Beau Bois	...	5.46	138.7	...	20
	Bel Air	...	2.29	58.2	3.70	6
	St Felix	...	1.75	44.5	...	3
7, 8, 9 & 10	Bel Ombre	40	3.11	79.0	2.94	19
	Beau Champ B. du Cap	70	3.23	82.0	2.86	17
	Frederica	...	3.59	91.2	3.50	17
	Pierrefonds	...	1.54	39.1	1.14	17
	Ste Marie	...	3.59	91.2	...	18
	Huseonia	...	...	...	...	..
11	Curepipe Gardens	1840	7.68	195.0	8.17	23
	Mare aux Vacoas (G.End.)	1850	9.21	233.9	11.28	29
	Mare aux Vacoas Arnaud	1830	11.31	287.3	11.21	29
	La Marie Filter Beds	1700	6.36	161.5	6.72	27
	Sophie	...	...	...	...	..
	Reunion	1420	5.20	132.1	5.22	20
	Aerological Station	1393	4.53	115.0	4.50	27
	Phoenix	...	5.09	129.3	...	12
	Quatre Bornes	...	2.35	59.7	...	16
12	Quatre Bornes Board	1000	1.64	41.7	2.03	6
	Le Reduit Dep. of Agric.	1[illegible]0	2.45	62.2	2.50	28
	Alma	1[illegible]0	4.91	124.7	7.97	17
	Bagatelle	1250	5.00	127.0	3.96	18
	Highlands	1300	4.31	109.5	4.49	19
	Trianon	950	2.41	61.2	2.73	16
	Val Ory	1100	...	...	3.10	..
	Bassin	...	1.74	44.2	2.14	12
	Hermitage	1450	5.14	130.6	7.82	18
	Ebene	...	2.55	64.8	...	17
	Bega	...	1.86	...	...	15
	Mon Reve	...	3.04	77.2	...	17
	Mont Pevril	...	1.90	48.3	...	13
	Minissy	1150	3.41	86.6	3.20	17
	Plaisance	...	2.10	53.6	...	12
13	La Ferme	350	0.56	14.2	1.28	6
	Line Barracks	...	0.28	7.0	...	12
	Richelieu Res. Stn	...	0.31	7.8	...	11

TABLE XVI - PILOT BALLOON OBSERVATIONS FOR THE MONTH OF JULY, 1942

Date	Time	Surface		250 metres		500 metres		750 metres		1,000 metres		1,500 metres		2,000 metres		2,500 metres		3,000 metres		3,500 metres		4,000 metres	
		Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity
		o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.
1	09.55	143	3.0	138	3.0	135	1.4	146	1.4	149	2.5	166	2.5	175	2.3								
2	08.55	199	3.6	165	5.6	166	5.0	154	2.8	162	3.8	172	2.9	100	3.4	353	0.3	284	2.0	279	7.0	261	7.7
3	08.41	169	1.0	134	4.1	162	6.2	138	3.4	175	5.6	185	7.0										
4	09.37	097	6.1	117	6.0	123	11.4	119	19.6	132	12.9	116	4.4	122	5.0								
5	09.10	122	7.5	124	3.6	103	8.9	104	10.8	103	9.5	094	12.1										
6	09.00	129	4.8	122	11.7	128	23.9	085	4.9	114	11.2	48	13.0	115	8.5								
7	09.40	134	4.5	122	5.7	107	9.0	112	15.7	110	21.3	099	13.3	099	18.9								
8	09.15	100	8.9	116	5.3	103	12.8	094	12.8	091	15.3	091	9.7	078	8.0								
9	09.42	106	3.9	090	3.2	104	3.7	109	10.4	110	7.2	165	2.8	184	2.7	175	1.1						
10	09.24	279	7.1	176	2.8	154	6.1	098	2.1	144	6.8	134	6.3										
11	09.13	109	4.2	092	6.2	099	9.1	096	12.1	092	14.7												
12	09.30	083	10.3	099	6.9	101	8.3	095	10.8	096	6.4	097	12.4	080	7.9								
13	09.59	099	6.4	113	5.6	108	8.5	100	11.4	094	11.8	093	16.2										
14	09.41	079	6.4	083	19.0	094	7.3	096	12.5	082	12.2	087	18.8										
15	09.55	103	5.9	106	4.7	106	4.7	090	2.3	099	4.1												
16	10.00	078	[illegible]	102	3.8	095	6.7	099	4.4	100	6.3	100	7.4										
17	09.16	078	7.1	096	5.2	100	9.6	099	10.6	099	12.6												
18	09.36	118	9.3	118	8.3	108	9.8	117	17.4	122	12.9												
19	09.07	123	7.1	123	5.2	107	8.1	107	11.7	106	12.9	109	13.5										
20	09.52	116	13.8	114	12.3	086	5.1	094	4.8	095	13.2	075	14.5	064	11.4								
21	09.25	097	11.3	095	14.6	096	15.4	082	11.2	328	3.1												
22	09.29	125	4.0	121	4.7	116	5.7	099	10.9	086	9.3	091	7.0										
23	09.09	138	3.9	128	5.0	115	7.3	112	7.5	108	7.8	107	7.8										
24	09.10	109	6.1	118	3.1	102	2.4	123	8.7	140	14.8	154	7.4	173	8.8	172	5.9						
25	09.10	155	18.7	151	14.9	147	15.5	136	12.2	119	6.8	115	9.3	110	12.3								
26	09.08	137	2.5	132	3.4	129	5.5	121	9.6	112	12.9	112	13.1										
27	09.40	132	8.9	140	7.7	133	8.2	116	16.8	110	13.8	101	13.2										
28	09.24	150	4.7	111	3.6	118	5.6	108	11.2	106	7.9	087	7.3	046	4.1								
29	09.18	098	12.1	093	7.0	095	16.3	089	17.6	086	12.6	096	8.6	113	8.7								
30	09.23	070	5.5	070	5.9	057	8.1	053	9.0	058	6.4	114	6.7	246	8.1	243	11.2	256	11.7	255	14.4		
31	09.13	095	4.3	079	4.2	080	6.1	101	1.6	095	1.7	195	3.3	200	4.3	230	8.3	241	7.6				

M A U R I T I U S

R O Y A L A L F R E D O B S E R V A T O R Y

LATITUDE 20° 1' 39"S., - LONGITUDE 3h 50m 12.6" E

RESULTS

OF

M A G N E T I C A L A N D M E T E O R O L O G I C A L O B S E R V A T I O N S

FOR THE MONTH OF

A U G U S T, 1942

N.R. Mc CURDY, B.Sc. F.R.M.S., SOC.

DIRECTOR

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TABLE I - RESULTS OF MAGNETICAL OBSERVATIONS MADE DURING THE MONTH OF AUGUST, 1942

Month and Day 1942	Mean Declination (West	Mean Horizontal Force (C.G.S. Units)	Mean Vertical Force (C.G.S. Units)	Daily Range: Declination	Daily Range: Horizontal Force (Unit 1 γ)	Daily Range: Vertical Force (Unit 1 γ)
JULY						
1	14°20'.5	.22435	.29953	7.7	18	37
2	20.6	442	951	5.2	34	36
3	20.7	441	956	4.5	23	11
4	20.5	442	956	4.4	25	11
5	20.7	443	953	4.2	29	23
6	20.3	444	953	4.3	71	22
7	[illegible]	426	955	5.0	44	28
8	20.6	427	958	6.5	20	21
9	20.7	437	954	6.5	67	34
10	20.8	429	957	5.7	62	28
11	20.8	419	959	5.0	41	19
12	...	...	959	...	..	32
13	...	...	959	...	..	29
14	20.5	425	959	7.0	22	34
15	21.2	433	959	7.0	26	27
16	21.4	416	964	5.5	46	28
17	21.2	...	967	4.7	..	19
18	..	...	...	...	..	..
19	21.6	413	967	5.8	36	18
20	21.0	420	965	5.7	40	23
21	21.6	417	958	10.0	24	52
22	21.5	423	957	8.8	16	46
23	21.9	411	967	8.7	85	22
24	21.8	407	968	5.8	53	39
25	21.7	408	968	6.0	37	34
26	22.1	419	962	5.5	26	39
27	21.7	419	959	6.0	28	48
28	21.4	419	965	6.0	23	28
29	...	417	963	..	23	33
30	22.0	432	965	6.8	32	29
31	21.3	411	966	6.7	58	26
Mean	14°21'.15	.22425	.29960	6.11	37.4	29.2

Description of the Principal Magnetic Disturbances

Horizontal Force : 2nd very slightly disturbed. 6th & 7th very moderately disturb ed. 8th bay disturbance between 0h 45m and 2h. 10th moderately disturbed during second half; 11th slightly disturbed in parts. 15th slightly disturbed at end. 16th moderately disturbed throughout; small pulsations superposed on mainly irregular features. 17th single large important positive wave (62 γ) culminating at 0h 20m followed by small pulsations on a slightly disturbed trace. 18th very moderately disturbed; minor irregular features mainly. 19th & 20th moderately disturbed - irregular features, mainly. 21st and 22nd very slightly disturbed in parts 23rd disturbed; small positive wave (22 γ) centred at 2h 15m large fluctuations of the order of (45 γ - 50 γ) between 20h and 24h. 24th slightly disturbed. Bay disturbance between 1h 30m and 3h 30m succession of minor positive waves at end. 25th positive wave between 1h 30m and 2h. 26th very slightly disturbed. 27th slightly disturbed. 30th very slightly disturbed during second half. 31st very slightly disturbed in parts.

T = .37423 : Mean Dip = 15° 11'.12 : X = .21725 : Y = -.05559 : Z = .29960

The daily range is the difference between the greatest and least hourly values

TABLE II - RESULTS OF ABSOLUTE DETERMINATIONS OF THE MAGNETIC ELEMENTS DURING THE MONTH OF AUGUST, 1942

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d. h. m.	° '	d. h. m.		d. h. m.	° '	
4.14.27	14.15.9	3.11.37	.22443	4.14.43	53.09.69	.29952
14.13.53	14.17.7	6.12.59	.22463	14.14.05	53.09.57	.29943
21.14.28	14.17.5	10.12.24	.22426	21.14.39	53.10.00	.29927
26.12.58	14.24.8	13.12.29	.22494	26.13.27	53.09.88	.29940
		17.12.35	.22424			
		20.11.42	.22441			

TABLE III - MAGNETIC DECLINATION (WEST) AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

AUGUST, 1942

14° +

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	21.0	20.5	20.7	21.0	20.7	21.7	21.7	21.5	20.5	21.0	23.0	21.0		20.3	21.0	22.5	Midnight
1	20.5	20.7	20.7	20.5	20.5	20.5	21.0	21.0	20.7	21.3	22.7	21.0		20.3	21.0	23.0	1
2	20.5	20.3	20.2	20.0	20.3	20.7	21.0	20.7	20.7	21.0	22.0	21.0		20.5	21.0	23.0	2
3	20.3	20.3	20.0	19.8	20.0	19.7	20.3	21.0	20.5	21.0	21.7	21.3		20.7	21.0	22.0	3
4	[illegible]	20.5	20.3	20.0	20.0	20.0	19.7	21.0	20.5	20.7	21.0	21.0		20.5	21.0	23.5	4
5	[illegible]	20.3	19.5	20.3	19.7	20.0	18.0	20.7	20.5	20.7	20.7	20.7		20.3	21.0	20.5	5
6	19.7	20.0	19.5	20.3	19.5	19.7	19.0	20.3	20.3	20.0	20.0	20.5		20.3	20.8	20.7	6
7	19.5	19.0	18.0	19.5	[illegible]	18.3	18.0	19.7	19.5	18.0	19.0	19.0		19.7	19.7	19.0	7
8	19.0	19.5	19.7	19.3	20.0	18.3	18.5	20.0	19.5	19.0	18.0	19.0		20.0	19.7	18.0	8
9	22.0	21.3	22.0	21.0	22.0	19.0	21.0	22.0	21.7	21.0	19.7	21.0	20.5	22.0	22.0	18.0	9
10	24.0	22.5	23.0	22.7	23.0	21.0	22.5	24.0	23.5	22.0	21.0	22.3	21.7	23.0	23.5	21.0	10
11	24.0	22.0	23.5	22.7	23.5	22.0	23.0	24.3	24.0	22.7	22.0	25.5	21.7	24.0	25.0	23.0	11
Noon	21.7	21.5	21.5	22.0	22.0	22.3	22.0	23.0	23.0	22.5	21.7	23.0	21.5	23.0	24.0	23.3	Noon
13	19.7	20.0	20.0	21.0	21.5	21.5	20.0	21.0	21.0	21.0	21.0	20.0	20.7	20.0	23.0	22.0	13
14	17.5	18.0	19.3	20.0	20.0	19.5	19.5	19.5	19.0	20.0	20.0	18.5	19.0	17.5	20.3	21.0	14
15	16.3	17.3	19.0	18.3	19.7	18.0	20.0	17.5	17.8	18.0	19.7	18.0	18.0	17.0	19.0	20.0	15
16	17.5	18.5	19.7	18.7	19.3	19.0	20.5	18.3	18.0	17.3	19.5	18.7	18.0	17.5	18.0	20.0	16
17	[illegible]	20.0	20.3	20.0	19.5	20.0	21.5	19.5	19.3	19.5	20.5	20.0	20.0	19.7	19.5	21.3	17
18	21.5	21.3	21.5	21.0	20.5	21.5	21.5	20.5	20.5	20.7	21.0		21.0	20.5	20.7	21.7	18
19	21.7	22.0	21.7	21.0	21.0	21.5	22.0	21.0	21.0	21.5	21.3		21.3	21.0	21.3	22.0	19
20	22.0	22.3	22.0	21.0	21.3	22.0	22.0	21.0	20.7	22.0	21.5		21.0	21.3	21.5	22.0	20
21	21.8	22.0	21.7	21.3	21.5	21.0	21.0	22.2	20.7	21.5	21.3		20.7	21.3	21.5	22.0	21
22	[illegible]	22.0	21.7	21.0	21.5	21.0	22.2	20.7	21.3	22.0	21.0		20.5	21.0	21.5	23.0	22
23	[illegible]	21.8	21.5	21.0	21.5	21.0	21.5	20.5	21.0	23.0	21.0		20.3	21.0	22.0	22.0	23

14° +

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
Midnight	22.5		23.5	22.0	23.5	21.5	21.5	23.0	23.0	22.0	21.0	21.5		21.5	22.0	21.6	Midnight
1	21.5		22.5	21.3	22.5	21.5	21.7	23.0	22.0	22.3	21.7	21.5		21.5	19.7	21.4	1
2	22.0		21.7	19.0	21.5	22.0	21.5	23.0	22.0	21.5	22.0	21.3		21.0	19.7	21.1	2
3	20.0		22.0	19.5	21.0	21.0	21.0	22.5	21.0	21.7	20.0	21.5		21.5	19.7	20.8	3
4	19.5		19.0	20.0	21.0	20.0	22.0	22.7	22.0	21.5	21.5	21.3		21.5	22.0	20.9	4
5	19.7		19.8	20.0	21.0	20.0	19.5	21.5	21.5	21.3	19.7	21.5		22.0	21.5	20.4	5
6	20.0	20.0	20.0	18.5	20.7	20.3	18.5	20.0	21.0	20.5	20.0	21.0	21.0	21.5	21.0	20.1	6
7	19.0	19.7	18.5	18.3	19.7	19.7	17.0	19.0	19.5	19.5	20.2	20.0	20.3	21.5	20.0	19.2	7
8	19.0	20.0	19.5	19.0	20.7	20.7	19.0	20.0	19.0	20.7	21.0	20.5	21.3	22.5	19.7	19.6	8
9	20.0	21.5	21.5	20.0	23.0	23.0	22.0	21.5	21.5	22.0	23.0	22.0	22.7	24.0	21.0	21.4	9
10	21.5	22.5	23.3	22.5	24.5	25.0	24.0	23.5	23.0	23.5	24.5	23.5	23.5	25.0	23.0	23.1	10
11	22.7	23.0	24.3	24.0	26.0	26.3	25.7	24.5	25.0	24.7	25.0	24.0	24.3	25.3	23.7	24.0	11
Noon	22.0	21.7	23.5	23.5	27.0	25.0	25.0	23.7	24.5	25.0	25.0	23.0	23.5	24.0	23.5	23.3	Noon
13	21.5	21.0	21.5	22.5	23.5	23.0	23.0	22.5	22.0	24.5	23.0	21.7	22.0	22.5	22.5	21.7	13
14	20.5	19.0	20.0	20.3	20.0	21.0	21.5	19.7	19.5	23.5	21.0	19.5	19.0	21.0	20.0	19.9	14
15	19.7	17.0	19.5	19.5	17.5	17.5	20.0	18.7	19.3	22.0	19.0	18.5	16.5	19.5	18.0	18.8	15
16	20.7	19.0	20.0	19.5	17.0	17.7	20.0	[illegible]	19.7	21.0	19.3	18.0	15.3	18.5	17.0	18.9	16
17	21.0	20.5	21.5	21.3	19.5	20.0	21.0	21.0	21.0	21.0	22.0	20.0	18.0	19.5	20.0	20.3	17
18	22.0	21.5	22.0	21.7	21.7	21.0	22.0	21.7	22.0	21.5	22.0	22.0	20.5	21.5	21.5	21.4	18
19	22.3	23.0	22.5	21.7	21.5	21.5	24.0	22.5	22.5	22.3	22.7	22.3	21.7	22.3	22.3	21.9	19
20	22.5	22.5	24.0	21.7	21.7	21.7	25.0	22.5	22.3	22.3	22.5	22.0	22.0	22.5	23.0	22.1	20
21	23.7	22.7	23.5	22.2	22.0	22.0	24.0	23.0	22.3	22.0	22.5	22.3	22.0	22.5	23.5	22.1	21
22	23.0	23.0	[illegible]	22.0	21.7	22.0	23.3	22.7	22.0	22.5	21.7	22.0	21.7	22.5	23.5	22.0	22
23	22.0	23.0	[illegible]	23.0	21.7	22.0	22.0	21.0	21.7	22.0	21.7	21.7	21.7	22.3	23.0	21.7	23

TABLE IV - MAGNETIC HORIZONTAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature in the Magnet Chamber)

AUGUST, 1942

.22000 + (C.G.S. UNIT)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	431	432	436	432	435	437	425	415	425	424	395	419		423	423	415	Midnight
1	430	433	436	437	435	433	426	435	424	428	407	420		427	423	397	1
2	435	441	437	440	435	445	425	431	425	431	419	421		429	429	402	2
3	435	439	439	439	441	436	449	422	426	440	420	423		430	427	405	3
4	437	438	440	442	437	443	431	425	430	447	425	423		432	428	413	4
5	437	440	445	443	440	445	435	427	432	445	425	424		433	428	439	5
6	436	445	447	443	447	449	440	429	435	441	427	427		430	421	443	6
7	443	450	447	447	447	453	440	431	439	447	420	419		431	425	430	7
8	447	449	452	453	449	459	441	432	443	446	432	434		432	442	422	8
9	441	441	451	457	460	462	451	430	451	439	440	431	438	425	443	425	9
10	435	441	449	455	453	465	450	424	458	432	431	430	437	423	444	417	10
11	435	450	449	450	460	463	425	421	467	425	435	425	439	425	447	413	11
Noon	433	457	452	454	461	466	438	425	470	430	420	435	429	445	436	415	Noon
13	437	462	450	452	453	471	440	433	475	438	427	431	440	429	440	420	13
14	430	461	442	449	448	458	421	432	476	443	420	430	436	429	435	423	14
15	430	449	439	438	440	460	407	431	455	440	410	420	430	422	433	423	15
16	429	440	438	435	435	451	412	425	435	432	406	418	421	415	438	419	16
17	430	437	437	433	432	441	415	423	418	425	402	411	419	411	431	415	17
18	435	439	437	436	435	439	416	424	417	433	408		433	415	431	419	18
19	437	431	431	437	437	420	412	425	413	420	410		424	420	435	422	19
20	437	431	433	438	437	400	410	426	409	385	412		425	421	423	412	20
21	436	432	435	437	437	410	412	426	410	405	413		427	421	433	410	21
22	432	428	431	436	439	420	420	427	417	392	413		427	422	438	401	22
23	431	429	429	432	440	419	422	427	423	415	419		428	422	425	403	23

29000 + (C.G.S. UNIT)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
Midnight	400		409	407	413	419	425	393	409	420	429	412	425	415	423	420	Midnight
1	430		400	412	412	420	423	388	418	415	423	413	427	421	424	421	1
2	406		410	440	414	418	440	403	406	415	420	418	430	427	429	426	2
3	413		415	430	414	417	427	420	413	417	425	418	425	424	430	426	3
4	417		408	427	415	419	427	400	404	416	427	419	420	425	430	426	4
5	415		420	423	418	421	419	405	417	419	421	421	415	424	438	429	5
6	412	421	413	427	418	423	419	403	421	420	422	422	413	428	439	430	6
7	415	429	420	425	420	425	415	412	425	425	428	430	410	431	428	431	7
8	425	431	431	432	423	433	414	412	422	430	429	431	408	433	427	434	8
9	425	435	430	428	422	416	423	409	405	430	431	431	407	427	430	433	9
10	425	429	427	426	421	429	432	412	388	431	425	430	412	439	421	432	10
11	426	420	415	427	425	429	430	411	390	430	410	430	420	438	413	431	11
Noon	422	415	407	430	426	433	426	416	400	431	422	423	421	436	414	433	Noon
13	421	400	415	429	424	428	420	415	409	425	427	408	422	432	411	433	13
14	415	389	416	418	425	427	420	406	409	427	420	409	407	430	406	429	14
15	405	383	419	408	415	423	414	405	407	423	415	409	406	429	401	424	15
16	417	392	412	410	407	421	417	409	404	418	412	408	412	432	394	421	16
17	411	385	417	400	402	419	390	406	403	411	403	410	420	436	385	417	17
18	406	387	419	416	410	421	392	409	404	408	405	416	421	435	381	419	18
19	426	400	412	421	412	421	384	406	405	405	408	418	422	438	390	418	19
20	399	405	396	409	413	419	391	400	403	407	410	419	423	442	392	415	20
21	400	403	398	408	415	420	355	410	408	410	411	417	422	447	391	416	21
22	426	491	394	411	417	423	372	396	414	413	416	416	420	443	387	416	22
23	400	402	410	405	415	423	405	421	413	408	413	415	416	425	394	418	23

TABLE V - MAGNETIC VERTICAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature in the Magnet Chamber)

AUGUST, 1942

29000 + (C.G.S. Unit)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	958	956	956	956	957	954	958	957	957	958	962	963	964	961	963	964	Midnight
1	957	955	955	956	957	955	957	957	957	957	961	962	961	961	962	964	1
2	956	954	954	954	958	955	957	957	955	957	960	960	960	960	960	964	2
3	955	954	953	954	957	954	957	957	956	956	957	959	959	959	959	963	3
4	954	954	954	954	957	955	957	957	957	955	957	960	958	959	959	962	4
5	953	953	953	955	957	954	956	957	957	955	957	957	958	959	959	957	5
6	953	953	952	955	957	954	956	958	957	955	958	961	958	959	959	957	6
7	953	951	950	952	955	952	953	956	957	953	957	959	958	959	957	955	7
8	956	955	954	955	957	953	956	959	959	960	960	962	962	963	960	962	8
9	964	961	960	962	957	962	962	963	962	965	965	969	967	971	966	969	9
10	967	964	965	963	962	959	964	966	962	968	965	972	970	974	970	979	10
11	967	961	965	960	957	959	963	968	957	965	961	965	968	971	970	983	11
Noon	961	948	961	958	950	950	948	966	952	960	950	953	963	960	965	978	Noon
13	945	933	953	954	942	943	937	954	940	956	946	944	949	945	957	962	13
14	930	928	951	955	939	937	936	947	929	947	951	942	944	940	951	957	14
15	932	934	951	955	943	940	944	949	931	940	950	940	941	941	943	957	15
16	938	942	952	956	946	944	953	953	939	944	956	946	946	949	946	957	16
17	945	948	955	958	950	952	958	957	949	953	961	955	953	956	953	962	17
18	952	952	957	959	953	955	960	959	955	959	964	960	959	961	958	962	18
19	953	953	956	958	953	955	960	959	957	959	964	962	961	962	960	963	19
20	954	955	957	957	954	957	959	960	959	963	965	963	962	962	961	963	20
21	955	956	956	957	954	958	959	960	961	964	964	965	962	962	961	967	21
22	955	955	956	957	955	958	958	958	961	963	963	965	962	962	963	968	22
23	956	955	957	957	954	954	956	957	956	958	966	962	962	963	962	969	23

29000 + (C.G.S. UNIT)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
Midnight	974	X	971	967	968	963	963	970	968	969	966	967	968	967	965	963	Midnight
1	964		969	966	967	963	963	970	967	968	966	967	967	967	965	962	1
2	968		968	964	967	965	964	971	967	967	966	967	966	966	965	962	2
3	964		968	964	966	964	963	966	966	967	963	964	965	966	963	961	3
4	962		965	967	967	965	966	969	967	967	964	964	964	964	963	961	4
5	964		966	965	967	965	964	969	967	967	965	964	964	965	962	961	5
6	964		966	964	967	966	965	968	967	967	966	964	963	964	961	961	6
7	963	962	962	962	965	964	963	968	966	967	965	963	963	965	959	959	7
8	966	963	967	966	969	967	970	973	970	969	969	968	968	973	965	963	8
9	971	965	973	970	975	973	973	981	976	972	971	975	972	977	972	969	9
10	976	969	977	974	973	966	973	986	986	972	972	977	976	979	979	971	10
11	976	970	976	972	966	960	968	980	988	968	968	977	973	977	978	969	11
Noon	971	963	970	968	947	949	967	967	977	958	953	968	968	972	972	961	Noon
13	970	953	960	959	937	940	963	957	963	951	937	961	959	967	967	952	13
14	965	948	959	951	923	932	960	948	954	937	924	952	947	964	960	945	14
15	957	947	962	955	926	927	953	947	954	933	926	949	943	954	953	944	15
16	962	953	967	957	932	936	957	954	957	939	936	951	944	950	953	949	16
16	962	953	967	957	932	936	957	954	957	939	936	951	944	950	953	949	17
18	965	967	967	967	962	954	971	968	977	958	953	968	968	972	972	961	18
19	966	968	966	966	962	955	970	970	971	965	962	966	964	962	969	962	19
20	967	966	967	965	963	955	975	971	971	967	964	967	966	962	970	963	20
21	969	967	966	966	963	956	974	971	971	969	966	968	966	962	972	963	21
22	969	968	968	966	963	964	973	970	970	979	967	968	968	963	972	964	22
23	969	968	965	969	963	962	973	967	969	963	967	968	967	965	972	963	23

X Gas light failed

TABLE VI - RESULTS OF METEOROLOGICAL OBSERVATIONS MADE AT THE AEROLOGICAL STATION, VACOAS, (424.5 metres above mean sea level) DURING THE MONTH OF AUGUST, 1942

Month and Day 1942	Observations at 10 a.m.									Temperature of the Air							Rainfall			
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temp. over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat. = 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0 - 10)	3h	9h	15h	21h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Casella Pluviograph	Duration	Duration of Bright Sunshine	Percentage of Possible Sunshine
AUG.	mbs	°C	°C	°C	%	mbs	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms	mins	hrs	%
1	971.1	19.5	2.6	15.1	76	17.2	85	6.3	1	16.2	18.8	20.7	17.4	21.7	15.6	6.1	1.6	35	10.2	91
2	972.7	20.3	1.8	17.4	84	19.9	60	6.7	8	17.4	19.5	21.6	17.7	23.7	17.0	6.7	1.5	45	9.3	83
3	974.2	18.9	1.8	15.9	83	18.1	90	5.4	10	17.0	19.3	20.3	17.1	21.8	16.5	5.3	2.2	70	9.2	83
4	973.9	18.4	1.6	15.7	84	17.8	85	5.8	8	16.0	17.6	18.7	17.4	20.0	16.0	4.0	7.9	225	4.1	37
5	974.0	19.3	2.0	16.0	81	18.2	90	7.0	9	17.1	18.7	20.4	17.5	21.1	18.0	4.1	1.5	60	7.9	71
6	974.6	17.5	0.7	16.3	92	18.5	90	5.6	10	16.1	16.8	18.5	15.6	19.2	16.0	3.2	14.6	460	4.8	53
7	975.0	17.9	1.8	14.7	82	16.7	115	5.2	6	15.2	17.8	17.7	15.8	20.7	15.1	5.6	1.2	65	6.1	63
8	975.0	16.7	0.5	15.9	95	18.1	105	7.2	10	15.1	16.2	17.7	16.1	19.3	14.2	5.1	4.8	150	1.3	12
9	974.3	18.1	2.4	14.0	77	16.0	100	4.5	7	15.1	17.9	19.6	14.9	20.3	15.1	5.2	1.7	75	9.6	85
10	973.6	18.2	3.1	12.7	70	14.7	90	2.2	4	13.9	17.8	18.0	15.1	21.5	13.1	8.4	...	...	9.3	83
11	972.7	18.1	2.1	14.6	80	16.6	95	5.4	6	13.7	17.3	17.8	15.6	21.6	13.0	8.6	5.7	125	6.4	57
12	972.2	18.4	2.8	13.5	73	15.5	105	5.6	6	15.1	17.8	19.7	14.5	20.8	14.9	5.9	1.6	70	6.3	56
13	971.9	18.9	2.5	14.7	77	16.7	90	4.9	5	14.6	17.9	18.7	16.5	21.1	13.4	7.7	2.4	100	6.9	62
14	970.9	19.6	1.1	17.8	90	20.4	55	3.1	8	16.6	18.7	20.5	16.6	22.1	15.3	6.8	2.3	105	8.6	76
15	971.6	20.9	2.8	16.4	76	18.7	CALM		2	13.9	19.8	22.0	16.4	24.2	13.3	10.9	0.3	5	5.5	49
16	971.9	17.6	3.3	11.6	69	13.7	130	8.5	2	16.3	16.9	17.9	15.4	19.6	14.2	5.4	1.5	130	8.5	75
17	972.5	17.8	2.8	12.9	74	14.9	105	6.7	7	13.4	16.8	18.0	14.5	19.6	13.3	6.3	2.4	100	6.9	61
18	972.1	17.7	2.2	13.9	79	15.9	90	4.5	9	14.0	16.7	17.0	15.6	20.1	13.9	6.2	3.0	100	5.6	49
19	971.2	18.9	2.1	15.4	80	17.5	85	2.2	8	15.0	17.9	20.0	16.3	22.4	15.0	7.4	0.2	15	7.7	68
20	971.5	18.8	2.1	15.3	80	17.4	130	5.2	5	16.1	18.2	18.1	15.8	22.0	15.6	6.4	1.0	60	7.0	62
21	971.8	19.7	3.3	14.0	70	16.0	125	4.7	8	15.6	18.9	17.9	16.4	20.8	15.4	5.4	5.2	170	6.9	61
22	974.1	17.9	2.0	14.5	81	16.5	120	5.6	7	14.9	17.0	18.4	15.9	20.0	13.1	6.9	5.9	165	7.4	65
23	974.1	18.7	2.5	14.5	77	16.5	110	8.9	6	15.5	18.0	19.1	16.5	20.6	15.5	5.1	1.8	15	10.0	87
24	973.1	20.0	3.6	13.8	68	15.8	95	6.0	5	14.3	19.1	20.5	16.2	21.6	13.6	8.0	...	..	10.7	93
25	973.0	18.9	3.4	12.9	69	14.9	80	6.0	4	14.4	18.3	19.0	16.0	21.6	13.4	8.2	2.7	70	9.5	83
26	972.7	18.0	1.4	15.6	86	17.7	95	7.6	7	15.4	17.1	17.9	16.6	20.6	15.4	5.2	1.3	45	8.3	72
27	972.0	20.1	2.4	16.1	78	18.3	75	4.9	5	16.1	19.3	21.5	15.7	23.8	15.0	8.8	...	..	5.1	44
28	972.1	20.0	3.0	14.9	73	16.9	115	5.4	6	14.9	19.5	20.5	17.3	22.4	14.8	7.6	2.2	70	9.3	81
29	974.1	20.1	3.3	14.5	70	16.5	120	6.3	4	16.1	19.3	20.4	17.1	22.4	15.7	6.7	0.2	5	8.1	70
30	974.5	19.5	2.7	15.0	75	17.1	100	6.5	7	16.0	18.8	20.2	17.0	21.8	15.7	6.1	6.3	135	10.5	91
31	973.5	20.2	3.2	14.8	71	16.8	95	6.7	3	16.3	19.4	21.0	17.2	22.2	15.3	6.9	0.7	20	8.7	75
Mean	973.0	18.9	2.4	14.9	78.1	17.0	...	5.5	6.2	15.4	17.9	19.3	16.3	21.3	14.0	6.5	80.7	2690	7.64	67.7
Average	972.7	18.6	2.1	15.1	80.4	17.2	...	5.4	6.2	...	...	...	...	20.5	14.5	6.0	127.3	...	6.89	60.5
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

EXCESS OF CERTAIN ELEMENTS AT PAMPLEMOUSSES OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	+ 42.7 mbs	Amount of Rain	- 25.3 mms
Temperature of the Air	+ 3.4 °C	Duration of Sunshine	+ 20.4 hrs
Vapour Pressure	+ 1.3 mbs	Mean of Maximum Temperatures	+ 2.8 °C
Relative Humidity	- 10.3 %	Mean of Minimum Temperatures	+ 2.0 °C
Velocity of Wind	- 0.4 m.p.s.	Absolute Maximum Temperatures	+ 1.6 °C
Amount of Cloud	- 0.7	Absolute Minimum Temperatures	+ 0.1 °C

Greatest Rainfall Intensity 1.3 mms in 5 mins.

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF AUGUST, 1942

Month and Day 1942	Atmospheric Pressure		Temperature of the Air					Excess of Air Temp. over Evaporation Temperature	Temperature of the Dew Point		Relative Humidity (Sat. = 100)		Vapour Pressure	Minimum on the grass	Rainfall		Amount of Evaporation	Mean Amount of Cloud (Scale 0-10)
	Mean	Excess above Average	Daily Maximum	Daily Minimum	Daily Range	Mean	Excess above Average		Mean	Excess above Average	Mean	Excess above Average			Amount recorded by Pluviograph	Duration		
AUG.	mbs	mbs	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C	mms	min	mms	
1	[illegible]	-1.5	24.9	17.4	7.5	20.7	+ 1.0	2.6	16.4	+ 0.9	77	+ 1	18.7	14.3	0.0	...	4.8	2.1
2	[illegible]	+ 0.1	25.5	19.5	6.0	21.7	+ 2.0	2.2	18.2	+ 2.8	80	+ 4	20.9	16.2	1.0	55	3.7	4.0
3	1015.5	+ 1.4	24.9	18.8	6.1	21.0	+ 1.2	3.0	16.1	+ 0.7	73	- 3	18.3	14.9	0.8	25	4.5	4.9
4	1015.6	+ 1.5	23.9	18.5	5.4	20.6	+ 0.8	2.3	16.8	+ 1.4	79	+ 3	18.1	15.5	1.4	75	4.0	6.1
5	1016.0	+ 1.9	25.0	18.3	6.7	20.9	+ 1.1	2.3	17.1	+ 1.7	79	+ 3	19.5	16.5	2.7	100	3.9	5.8
6	1016.5	+ 2.1	22.1	16.5	5.6	19.3	- 0.5	2.1	15.8	+ 0.4	80	+ 4	17.9	16.0	13.7	315	4.7	6.8
7	1016.8	+ 2.5	22.9	16.0	6.9	18.6	- 1.2	2.1	15.1	- 0.3	80	+ 4	17.2	10.9	2.8	90	2.5	5.0
8	1016.5	+ 2.4	23.0	16.1	6.9	19.4	- 0.4	2.4	15.4	0.0	78	+ 2	17.5	11.3	1.9	50	2.4	6.4
9	1015.6	+ 1.5	23.0	17.5	5.5	19.6	- 0.2	2.9	14.7	- 0.7	73	- 3	16.7	15.2	1.7	110	3.6	6.1
10	1014.6	+ 0.5	23.0	14.7	8.3	18.5	- 1.3	3.2	12.8	- 2.6	69	- 7	14.8	10.0	0.0	...	3.8	3.3
11	1014.0	- 0.1	23.7	13.1	10.6	18.7	- 1.1	2.6	14.2	- 1.2	75	- 1	16.2	9.5	1.6	35	4.3	4.9
12	1014.0	- 0.1	23.2	15.8	7.4	19.4	- 0.5	2.7	14.8	- 0.7	75	- 1	16.8	15.4	2.8	150	3.2	5.9
13	1012.5	- 1.6	24.1	15.9	8.2	19.8	- 0.1	2.2	16.2	+ 0.7	80	+ 4	18.4	11.4	2.7	75	4.2	5.1
14	1011.8	- 2.3	24.1	17.8	6.3	20.5	+ 0.6	1.3	18.4	+ 2.9	88	+ 12	21.2	14.4	6.2	155	1.8	6.3
15	1012.8	- 1.3	24.6	16.1	8.5	19.6	- 0.3	1.7	16.8	+ 1.3	84	+ 8	19.1	12.0	0.0	...	3.4	2.9
16	1014.1	0.0	23.2	17.1	6.1	19.8	- 0.1	[illegible]	13.2	- 2.3	66	- 10	15.2	12.1	0.2	10	3.8	4.9
17	1014.3	+ 0.2	23.0	16.2	6.8	19.4	- 0.5	[illegible]	13.7	- 1.8	70	- 6	15.7	11.7	0.4	20	5.6	6.7
18	1013.2	- 0.9	23.1	16.1	7.0	19.2	- 0.8	2.5	15.0	- 0.5	77	+ 1	17.1	12.0	1.8	45	4.2	5.1
19	1012.8	- 1.4	23.3	16.9	6.4	19.5	- 0.5	2.0	16.2	+ 0.7	81	+ 5	18.4	12.4	1.3	35	4.0	5.5
20	1013.4	- 0.8	25.1	16.3	8.8	20.2	+ 0.2	2.9	15.3	- 0.2	73	- 3	17.4	11.5	1.9	40	3.8	4.2
21	[illegible]	- 0.2	24.0	16.8	7.2	19.9	- 0.1	2.5	15.7	+ 0.2	77	+ 2	17.8	11.9	2.5	60	5.7	6.2
22	[illegible]	+ 1.8	23.9	16.1	7.8	20.2	+ 0.1	2.9	15.3	- 0.3	73	- 2	17.4	11.9	2.7	70	3.9	5.6
23	1016.0	+ 1.7	24.2	18.8	5.9	20.7	+ 0.6	3.3	15.2	- 0.4	71	- 4	17.3	15.8	0.1	10	5.0	2.8
24	1014.9	+ 0.6	24.9	16.3	8.6	20.1	0.0	3.7	13.7	- 1.9	67	- 8	15.7	11.4	0.0	..	6.2	2.5
25	1014.6	+ 0.3	24.2	15.7	8.5	19.5	- 0.6	2.5	15.3	- 0.3	77	+ 2	17.4	11.0	1.3	30	5.5	4.9
26	1014.3	0.0	24.0	17.8	6.2	20.4	+ 0.2	2.7	15.9	+ 0.4	75	0	18.1	13.9	1.2	25	3.7	6.8
27	1013.3	- 1.1	25.8	17.1	8.7	21.1	+ 0.9	2.8	16.5	+ 1.0	75	0	18.8	15.4	0.0	..	5.1	2.2
28	1014.2	-0.2	24.9	16.3	8.6	20.5	+ 0.3	2.4	16.5	+ 1.0	78	+ 3	18.8	12.0	0.2	10	4.5	5.3
29	[illegible]	+ 1.7	25.3	17.2	8.1	21.0	+ 0.8	3.1	15.9	+ 0.4	73	- 2	18.1	12.0	0.0	..	3.7	2.6
30	[illegible]	+ 1.9	25.3	17.8	7.5	21.0	+ 0.7	3.2	15.7	+ 0.1	72	- 3	17.8	14.3	1.1	25	5.3	4.6
31	1015.2	+ 0.8	25.5	17.3	8.2	20.8	+ 0.5	3.1	15.7	+ 0.1	72	- 3	17.8	12.2	1.4	10	5.9	2.6
Mean	1014.6	+ 0.4	24.1	16.8	7.3	20.1	+ 0.1	2.7	15.6	+ 0.1	75.7	+0.1	17.6	13.4	Sum 55.4	Sum 1625	4.2	4.8
Average	1014.2	...	23.9	16.5	7.4	20.0	...	2.7	15.5	...	75.6	...	17.6	13.2	62.5	1342	4.0	5.2
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

General Weather Conditions during the month of August, 1942

Anticyclonic conditions prevailed, weakening under the influence of distant extra-tropical depressions on the 14th-15th, the 20th and the 27th-28th.

There was no important departure from normal in any of the meteorological elements.

TABLE VII (Cont'd) - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF AUGUST, 1942

Month and Day 1942	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above average	Temperature of the Soil: 10 Feet	Temperature of the Soil: 5 Feet	Temperature of the Soil: 2 Feet	Temperature of the Soil: 12 Inches	WEATHER 0h	3h	6h	9h	12h	15h	18h	21h	24h
AUG.	hrs	%	m.p.s.	°m.p.s.	°C	°C	°C	°C									
1	9.3	83	3.9	+ 0.2	25.1	...	22.7	22.5		bc		b			bcq		b
2	10.2	91	3.5	- 0.7	25.1	...	22.8	22.5		b	cro		bcq		bc		b
3	10.1	90	3.8	+ 0.1	25.1	...	22.8	22.6		b		cdo		bcq			c
4	8.0	71	4.1	+ 0.4	25.1	...	22.9	22.5			c		cqro		bcq		b
5	8.7	78	4.3	+ 0.6	25.1	...	22.9	22.5		b	bc		cqro			bc	
6	5.9	53	4.1	+ 0.4	25.1	23.9	22.9	22.6		bc	orr		cqro		bcq		bc
7	4.9	43	3.0	- 0.7	24.9	24.0	23.0	22.1			bc		croro		bc		b
8	2.8	25	3.2	- 0.6	24.9	24.0	22.8	21.9		b		c					bc
9	7.1	63	4.0	+ 0.2	24.9	23.9	22.7	21.7		bcro	bc	cq			bc		
10	7.9	70	3.2	- 0.6	24.8	23.9	22.7	21.7			b	c			bc		
11	8.3	73	3.3	- 0.5	24.8	22.9	22.6	21.5			bc	c			bc		
12	9.0	80	3.4	- 0.4	24.8	23.8	22.5	21.6		o	bc	croro			bc		
13	9.1	81	2.9	- 0.9	24.8	23.9	22.5	21.6			bc	c			bc		
14	6.5	58	1.9	- 1.9	24.8	24.0	22.5	21.9		bc	b	croro		c		bc	b
15	6.2	54	1.9	- 1.9	24.8	24.1	22.5	21.9		b		bc	c	b		bo	
16	9.9	87	4.5	+ 0.6	24.8	23.9	22.5	21.9		o		b	bqo		cqo	bc	
17	7.7	68	3.5	- 0.4	24.7	23.9	22.6	22.0		bc		cro	cq bcq	c		bc	
18	6.3	55	3.4	- 0.5	24.7	23.7	22.6	21.9		b	oro	bcq	cq		bc	b	
19	4.3	38	2.3	- 1.6	24.7	23.9	22.6	21.9		cro	bc		c		bc	bc	
20	10.6	93	3.1	- 0.8	24.8	23.9	22.6	21.7		bc	b		bc	b		cro	
21	9.5	83	4.3	+ 0.3	24.8	23.6	22.5	21.9		bcro	b	bc	cq	croro		cq	
22	10.3	90	5.0	+ 1.0	24.7	23.9	22.6	21.9		cq		bc		bcq		croro	
23	10.9	95	6.0	+ 2.0	24.7	23.9	22.5	22.0		b			bcq			b	
24	10.6	92	3.7	- 0.4	24.7	23.6	22.5	21.8			b		bcq			bc	
25	8.2	71	3.3	- 0.8	24.7	[illegible]	22.5	22.0			bc		cro			bcro	
26	5.9	51	4.1	0.0	24.7	23.8	22.6	22.0		bc		cr	c		cg		c
27	10.7	92	3.3	- 0.8	24.6	23.5	22.6	21.9		bq			bc		b		
28	6.4	55	2.8	- 1.3	24.6	23.6	22.6	22.3		b		o c			bc		bcro
29	10.8	93	3.7	- 0.4	24.6	23.4	22.7	22.3		bc	b	bc		bcq		b	
30	10.1	87	3.3	- 0.8	24.6	23.6	22.7	22.5		cro	c b			bcq		b	
31	10.9	94	3.3	- 0.8	24.6	23.6	22.8	22.4		bc			bc		bcro		bc
Mean	8.29	72.8	3.35	- 0.34	24.81	23.81	22.65	22.05									
Average	7.57	66.6	3.89	...	24.87	23.81	22.67	21.91									
Column	13	[illegible]	21	22	23	24	25	26					27				

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF AUGUST, 1942

Element	Highest	hrs	Date	Lowest	Date
Atmospheric Pressure	1018.2 mbs	at 10.00	on [illegible]th	1010.1 mbs	at 16.00 hrs on 14th
Temperature of the Air	25.8°C	at 12.45	on 27th	13.1°C	at 06.40 hrs on 11th
Daily Range of temperature of Air	10.6°C		on 11th	5.4°C	on 4th
Temperature of the Dew Point	20.5°C	at 12.00	on 14th	10.8°C	at 3 & 6 hrs on 10&11
Minimum on grass				9.5°C	on 11th
Relative Humidity	97.3 %	at 01.00	on 14th	4[illegible].6 %	at 13.00 on 31st
Vapour Pressure	24.1 mbs	at 12.00	on 14th	12.9 mbs	at 3 & 6 hrs on 10th & 11th
Evaporation in 24 hrs	6.2 mms		on 24th	1.8 mms	on 14th
Wind Velocity	8.3 m.p.s.	at 12 & 13	on 23rd	1.1 m.p.s.	often
Rainfall in 24 hrs	15.5 mms	ending 15.00 hrs	on 6th		
Duration of Sunshine	10.9 hrs		on 23rd & 31st	2.8 hrs	on 8th

Mean Day Temperature of Air 21.74°C Mean Night Temperature of Air 18.36°C

NUMBER OF DAYS OF

Mean Cloud Amount: 0	1 - 3	4 - 6	7 - 9	10	Rainfall: 0.1 - 0.9 mms	1.0 - 4.9 mms	5.0 - 9.9 mms	10.0 - 24.9 mms	25.0 & over mms	Lightning mms	Thunderstorm
...	8	20	3	...	5	18	1	1	...	...	...

TABLE VIII - ATMOSPHERIC PRESSURE IN MILLIBARS AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level). (The cistern of the barometer is 55.2 metres above mean sea level)

AUGUST, 1942

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	139	132	161	162	161	164	171	170	170	158	151	150	147	121	133	140	Midnight
1	136	135	161	160	160	162	169	170	163	154	150	150	142	119	131	139	1
2	133	132	160	157	158	161	165	167	160	151	149	148	137	121	133	140	2
3	131	130	157	153	151	159	162	163	157	149	142	144	130	111	121	131	3
4	130	130	152	150	151	159	161	161	156	147	140	139	129	111	121	131	4
5	127	130	151	151	150	160	163	161	157	147	135	136	128	112	120	132	5
6	128	133	151	151	153	161	168	161	160	151	139	139	130	113	124	136	6
7	130	139	159	160	160	164	171	166	161	153	142	141	133	119	130	141	7
8	130	146	166	166	168	170	176	171	162	159	147	143	133	122	132	149	8
9	132	151	170	167	171	176	181	174	166	160	150	150	138	129	138	151	9
10	131	151	170	169	170	175	182	177	169	160	151	150	139	130	139	151	10
11	130	150	164	164	162	167	171	180	179	156	147	150	132	129	132	150	11
Noon	125	144	155	159	160	167	170	166	156	149	140	141	124	121	123	140	Noon
13	117	136	150	151	156	162	161	162	147	140	133	131	116	112	121	131	13
14	114	131	142	146	146	152	155	152	141	132	125	127	110	107	116	129	14
15	111	129	141	141	151	152	152	150	141	128	121	123	110	102	114	129	15
16	112	131	140	144	152	151	154	152	141	129	121	126	109	101	114	130	16
17	114	136	142	148	154	154	160	158	143	130	126	128	110	107	117	133	17
18	119	141	143	150	158	161	161	161	149	131	130	129	110	111	120	139	18
19	123	147	149	156	161	169	166	163	153	139	138	132	117	120	129	145	19
20	129	156	153	161	166	174	170	170	159	143	142	138	120	129	132	151	20
21	131	160	160	163	170	177	171	160	149	144	143	121	171	131	129	151	21
22	132	161	164	163	170	176	162	171	161	150	149	145	121	134	140	154	22

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
Midnight	154	142	130	141	142	161	171	162	158	151	144	144	160	171	169	153	Midnight
1	151	140	124	140	141	160	169	159	155	149	139	141	160	170	163	150	1
2	150	139	122	135	135	156	161	155	151	144	132	140	159	164	161	147	2
3	148	132	121	131	131	154	160	151	147	141	130	136	157	161	156	143	3
4	143	131	117	130	130	152	158	149	144	140	130	133	158	161	154	142	4
5	145	132	114	128	130	152	156	145	145	140	130	133	158	161	151	141	5
6	150	140	119	130	133	157	159	150	149	141	130	134	160	163	152	144	6
7	150	140	125	133	140	160	161	153	151	147	139	141	162	170	153	148	7
8	151	143	130	140	142	164	169	160	155	155	141	148	170	172	157	153	8
9	153	149	140	143	146	170	171	161	159	159	143	150	172	172	160	156	9
10	152	149	140	142	147	171	173	160	159	157	146	151	174	176	160	157	10
11	151	138	135	140	141	168	170	152	154	151	141	147	170	170	156	153	11
Noon	146	131	130	131	137	137	160	148	146	136	135	141	161	161	151	146	Noon
13	140	126	123	125	130	154	156	140	139	140	128	135	152	153	145	139	13
14	131	121	120	121	129	151	151	153	132	132	120	130	150	149	139	134	14
15	129	117	119	120	129	150	147	130	130	130	115	125	146	146	136	131	15
16	127	119	119	120	130	151	148	130	130	130	116	126	147	146	137	132	16
17	130	119	121	123	133	153	149	132	132	130	118	130	150	150	140	135	17
18	131	121	125	130	140	159	150	140	133	133	121	136	153	153	141	138	18
19	137	125	131	133	146	163	154	144	141	140	127	142	161	160	143	144	19
20	141	130	137	143	150	171	160	150	147	143	137	150	168	166	153	150	20
21	142	133	141	147	154	171	161	153	151	147	141	156	172	171	157	153	21
22	142	132	142	149	156	172	163	156	151	148	143	160	173	171	157	154	22
23	144	131	141	146	160	171	164	158	152	148	144	161	172	170	154	154	23

TABLE IX - AMOUNT OF CLOUD AT EVERY HOUR OF THE DAY (0 - CLEAR SKY, 10 - OVERCAST SKY)

Hour \ Day	AUGUST, 1942																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Midnight	4	3	0	8	0	6	4	2	4	1	3	10	4	6	2	10	6	3	7	3	8	5	3	1	3	0	7	1	4	8	4	4.4
1	3	3	0	8	0	6	4	2	4	1	3	10	4	6	2	10	6	3	9	3	8	5	3	1	3	5	3	1	4	8	7	4.4
2	3	3	1	8	2	6	5	2	4	1	4	10	4	8	2	10	6	3	9	5	7	2	2	1	3	4	1	1	4	8	3	4.3
3	1	3	1	8	3	5	5	2	4	1	4	10	4	8	2	10	6	2	5	5	8	1	1	1	3	5	1	1	3	8	0	4.1
4	1	3	1	8	5	5	5	2	6	1	3	10	5	8	2	10	6	2	6	5	8	2	1	1	3	5	1	1	3	8	0	4.1
5	1	8	1	9	6	10	4	9	6	1	2	8	5	3	2	3	7	9	4	1	5	3	1	1	7	6	1	9	2	8	1	4.6
6	1	8	2	9	7	10	4	10	5	1	2	4	6	1	3	1	8	9	3	1	4	3	1	1	4	7	1	9	2	8	1	4.4
7	1	8	4	9	8	10	5	10	5	2	2	4	6	1	3	1	9	10	6	1	5	3	1	1	4	7	2	9	2	8	2	4.8
8	2	9	5	9	8	10	7	10	6	0	4	6	6	5	3	2	9	9	8	2	6	3	2	2	5	7	2	9	3	6	2	5.3
9	2	6	7	8	8	10	9	9	7	0	5	9	6	9	3	3	9	8	9	4	7	3	3	2	5	7	3	9	3	4	3	5.8
10	2	6	8	9	8	9	10	8	8	0	5	7	7	9	3	2	4	4	7	4	6	5	6	3	3	7	4	6	3	4	3	5.5
11	2	6	7	10	8	9	10	4	9	9	6	9	7	10	3	2	8	5	8	4	6	5	6	3	3	5	4	5	3	5	3	5.9
Noon	2	6	7	8	8	9	9	7	7	7	7	5	7	9	4	2	7	5	9	5	6	5	6	3	4	9	4	8	3	6	4	6.1
13	3	6	7	8	8	9	8	7	7	9	7	5	5	7	7	1	9	5	9	4	6	6	3	5	8	5	7	2	2	6	3	6.1
14	3	5	7	7	7	9	10	9	6	6	6	5	5	8	7	1	4	7	8	6	5	7	6	3	5	8	4	5	2	4	3	5.7
15	4	5	4	6	6	9	10	9	9	5	6	5	5	8	8	1	4	7	8	4	5	9	5	3	8	9	4	5	2	3	3	5.8
16	4	3	4	6	6	8	2	9	9	5	7	5	5	8	5	3	7	6	6	2	4	9	4	3	8	6	3	5	2	2	2	5.1
17	3	3	4	5	5	6	2	9	8	6	8	4	5	8	2	5	10	4	2	2	3	9	3	2	7	4	1	4	2	1	1	5.5
18	4	2	4	5	5	3	2	8	6	6	5	4	3	8	2	8	9	3	2	2	3	9	3	2	7	7	1	4	2	1	1	4.2
19	2	2	8	3	5	3	1	7	6	4	5	3	8	7	1	8	5	3	2	5	8	5	1	2	6	7	1	5	2	1	5	4.2
20	1	0	8	0	3	3	1	5	6	3	5	3	5	5	0	8	5	3	2	9	8	9	1	2	6	9	1	5	2	2	5	4.0
21	1	0	8	0	7	3	1	4	6	3	5	3	3	4	0	6	6	3	2	9	8	9	1	7	4	9	1	6	2	1	3	4.0
22	1	0	8	0	7	3	1	4	6	3	5	3	3	3	0	6	6	3	2	7	8	9	1	6	4	9	1	6	2	1	3	3.9
23	1	0	8	0	7	3	1	4	6	3	5	3	3	3	0	6	6	3	2	4	8	8	1	6	5	9	1	6	2	1	3	3.8

TABLE X - DURATION OF BRIGHT SUNSHINE AT EVERY HOUR OF THE DAY AS RECORDED BY THE CAMPBELL-STOKES SUNSHINE RECORDER

Hour Ending \ Day	AUGUST, 1942																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	hrs
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
7	20	12	18	0	11	0	12	0	0	25	2	7	0	24	19	24	0	0	11	30	37	3	2[illegible]	30	0	0	28	0	20	[illegible]	20	6.3
8	60	52	60	22	16	4	7	0	49	60	30	48	49	30	60	60	60	17	18	60	60	60	60	60	50	0	[illegible]	9	60	31	60	21.7
9	60	60	45	60	24	0	12	50	27	60	60	40	38	45	60	60	40	9	30	60	60	45	60	60	45	60	60	[illegible]	[illegible]	56	60	[illegible]
10	60	60	57	40	57	45	23	40	32	60	60	38	54	29	50	60	48	60	20	60	56	60	60	60	60	54	60	[illegible]	[illegible]	54	60	26.3
11	60	60	60	32	60	60	25	16	44	29	60	30	52	14	59	60	49	60	32	60	60	60	60	60	60	60	60	[illegible]	[illegible]	[illegible]	60	26.3
Noon	60	60	60	46	60	17	36	45	30	38	60	60	60	19	35	60	27	51	51	20	60	60	60	60	60	55	60	[illegible]	60	60	60	25.8
13	60	60	60	58	60	37	30	1	60	37	31	57	60	23	9	60	45	26	0	60	56	60	60	60	60	58	60	20	60	60	60	24.1
14	60	60	60	54	60	27	43	12	60	43	55	56	60	60	16	60	51	51	25	60	25	60	60	60	[illegible]	[illegible]	42	60	60	60	60	25.2
15	49	60	60	60	60	16	0	0	45	60	38	60	60	30	10	60	60	40	17	60	54	60	60	[illegible]	40	40	60	45	[illegible]	60	60	24.1
16	40	60	60	38	60	58	24	6	35	28	60	54	60	54	60	60	53	25	21	34	45	60	60	60	50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	60	23.5
17	26	57	56	60	50	60	60	0	30	11	25	60	50	27	20	24	3	27	50	56	59	54	60	60	0	17	[illegible]	[illegible]	[illegible]	60	60	21.6
18	0	12	12	9	4	30	20	0	12	23	15	33	6	0	36	7	0	11	16	37	0	34	25	5	0	29	30	34	30	45	30	9.1
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0

TABLE XI - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the Absolute Scale add 273)

AUGUST, 1942

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	18.3	1.6	20.0	0.9	19.9	1.7	19.1	1.7	19.9	2.0	19.1	1.4	16.7	1.9	18.7	1.8	Mid-night
1	18.3	1.7	20.0	0.9	19.4	1.6	19.1	1.2	19.8	2.0	19.0	1.4	16.6	1.8	18.5	1.5	1
2	18.2	1.6	19.6	0.7	19.1	1.6	19.0	1.3	19.9	1.9	18.7	1.2	16.2	1.2	17.7	1.4	2
3	17.7	1.6	19.8	0.8	19.1	1.5	19.0	1.2	19.2	1.2	18.9	1.7	17.9	1.9	16.9	1.7	3
4	18.0	1.8	19.9	0.8	19.2	1.6	19.1	1.3	19.2	1.4	18.9	1.0	18.0	2.7	16.2	1.3	4
5	18.1	1.8	19.8	0.8	19.0	1.8	18.7	1.2	19.2	1.3	18.1	0.5	16.7	2.5	16.3	1.2	5
6	17.9	1.7	19.8	0.8	18.9	1.8	19.3	1.7	19.3	1.2	18.0	0.7	16.0	2.0	17.0	1.2	6
7	18.1	1.8	20.2	0.8	19.1	1.8	19.1	1.1	19.3	1.1	18.3	0.6	16.3	1.6	17.7	1.7	7
8	[illegible]	2.6	21.1	1.2	21.5	2.5	19.4	1.2	20.3	1.4	18.9	1.1	17.5	1.9	18.1	1.2	8
9	[illegible]	3.7	22.6	1.8	21.9	2.8	21.9	2.3	20.4	0.8	18.5	0.3	19.6	2.3	20.9	2.2	9
10	23.1	4.9	23.9	3.2	23.1	4.1	22.2	3.1	22.8	2.8	20.7	1.2	20.1	3.0	22.0	4.3	10
11	23.8	4.8	24.2	4.1	[illegible]	5.0	22.3	3.2	23.0	3.1	21.2	2.2	19.3	1.4	20.2	1.9	11
Noon	23.2	4.6	24.6	4.4	[illegible]	4.6	22.7	3.4	24.0	4.7	22.1	3.3	21.0	2.6	23.0	4.4	Noon
13	24.2	5.1	24.9	4.7	24.1	5.5	22.9	3.4	24.1	4.0	21.0	2.1	22.0	3.8	20.4	2.7	13
14	24.3	4.7	25.1	5.0	24.0	6.0	23.1	3.7	24.0	4.2	22.0	3.4	21.3	3.2	21.7	3.6	14
15	23.2	4.1	24.1	4.1	23.9	6.4	23.2	4.2	24.1	4.8	20.9	3.7	19.0	1.4	22.0	4.2	15
16	23.0	3.9	24.0	4.0	23.4	4.8	20.4	2.1	23.2	4.2	21.9	4.6	20.9	2.9	21.9	4.3	16
17	22.2	3.0	23.1	3.5	22.4	4.6	21.7	3.5	22.3	3.3	21.2	4.2	20.1	2.5	19.9	2.5	17
18	21.1	2.0	21.9	2.6	21.1	3.4	21.0	3.2	21.2	2.6	19.9	3.2	19.1	2.3	19.1	2.1	18
19	20.4	1.3	21.0	2.0	20.1	2.3	20.2	2.5	20.2	2.2	18.5	2.7	18.0	2.0	19.1	2.7	19
20	19.7	1.6	20.2	1.3	19.5	1.4	20.1	2.3	20.1	1.9	17.8	2.7	18.1	1.8	19.1	2.4	20
21	19.7	1.1	20.6	1.6	19.1	1.7	20.0	1.8	19.0	1.1	17.1	2.3	18.5	1.8	19.3	2.2	21
22	20.2	1.1	20.2	1.5	19.3	1.3	19.9	1.8	18.3	1.2	16.9	2.2	18.4	1.7	19.7	2.7	22
23	20.0	1.1	20.1	1.7	19.1	1.5	20.0	1.9	18.8	1.2	16.6	1.9	18.4	1.4	19.1	2.0	23

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	19.1	1.9	[illegible]	2.0	[illegible]	[illegible]	18.4	1.2	[illegible]	1.3	[illegible]	0.4	18.1	1.0	17.1	1.1	Mid-night
1	17.7	1.4	16.2	2.1	16.0	1.7	17.9	1.0	17.0	1.7	19.2	0.3	17.7	1.0	18.1	0.9	1
2	18.1	1.1	15.3	2.1	16.3	1.8	17.9	0.9	17.6	1.7	19.3	0.3	17.2	1.0	18.3	0.5	2
3	18.1	1.4	14.8	2.2	16.2	1.8	18.0	0.9	17.0	1.8	19.1	0.6	16.7	0.8	19.0	1.4	3
4	18.1	1.6	15.3	1.6	14.6	1.5	17.8	1.2	17.2	1.2	19.0	0.6	16.3	1.0	18.9	1.8	4
5	17.9	0.8	15.0	1.8	[illegible]	1.4	17.8	1.4	16.2	1.3	18.9	0.6	16.1	0.7	18.2	2.0	5
6	17.7	1.6	15.2	1.5	13.3	1.3	17.3	1.2	16.1	1.3	18.3	0.5	16.2	1.0	18.1	2.4	6
7	17.6	1.5	15.3	1.5	13.7	1.4	17.1	1.3	17.0	1.1	17.8	0.7	16.6	0.5	18.0	2.7	7
8	18.9	2.2	19.1	3.0	15.0	1.0	19.2	2.0	18.8	1.6	20.9	1.6	19.6	0.6	19.3	3.5	8
9	20.1	3.0	21.1	4.5	20.6	2.9	19.2	2.0	21.2	2.1	21.9	1.9	22.3	[illegible]	20.9	4.6	9
10	21.4	4.0	[illegible]	5.2	21.9	3.9	21.1	2.4	22.1	3.1	22.5	1.7	23.0	3.0	21.8	4.8	10
11	20.9	5.1	22.0	5.0	23.2	5.0	21.5	2.9	22.9	3.5	20.8	0.8	24.2	3.9	22.2	5.8	11
Noon	22.3	4.7	22.3	5.4	22.3	4.0	23.0	4.8	23.7	4.2	22.0	1.0	23.1	3.0	22.5	5.7	Noon
13	22.1	4.9	22.9	5.9	21.3	[illegible]	23.1	4.9	23.7	4.1	22.3	2.5	23.4	3.1	22.7	6.3	13
14	22.3	4.7	22.1	4.9	22.1	[illegible]	[illegible]	4.8	23.9	4.1	24.0	3.9	23.9	3.7	22.6	5.9	14
15	21.9	4.7	21.9	5.3	22.7	4.6	22.5	5.2	23.0	4.2	23.9	3.5	21.9	2.1	21.1	4.1	15
16	21.7	4.7	20.9	4.4	22.0	3.9	22.1	5.0	22.9	4.7	23.2	3.3	21.0	1.9	21.2	5.2	16
17	20.9	4.3	20.3	3.8	20.9	3.1	21.3	4.6	21.1	2.8	22.1	2.2	21.1	1.3	20.1	4.5	17
18	20.2	4.0	19.1	3.1	19.7	2.7	20.0	3.8	20.2	2.2	21.3	1.6	20.0	1.0	19.5	4.4	18
19	19.8	3.7	18.9	2.8	19.1	2.6	18.9	2.8	19.3	1.3	21.0	1.4	19.2	1.5	19.1	4.9	19
20	19.0	2.9	18.1	3.0	19.1	2.0	18.9	3.1	19.1	1.1	20.1	1.1	19.0	1.7	19.1	4.9	20
21	18.3	2.3	16.5	2.4	19.0	2.4	17.7	2.2	19.0	0.9	19.2	1.1	18.5	1.6	19.2	4.6	21
22	18.0	2.3	[illegible]	2.1	19.0	2.4	16.5	1.8	19.5	1.2	18.9	0.9	18.1	1.3	19.0	4.3	22
23	18.0	2.0	[illegible]	2.0	18.9	1.9	16.1	1.6	19.3	0.8	18.3	0.8	17.7	1.7	19.1	5.0	23

TABLE XI (Ctd) - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the absolute scale add 273)

AUGUST, 1942

Day / Hour	17		18		19		20		21		22		23		24		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	18.9	3.9	17.9	1.3	17.4	1.2	18.2	1.2	18.0	1.3	19.1	2.1	18.6	1.7	18.6	2.5	Midnight
1	19.1	5.0	17.9	1.2	17.9	1.1	17.4	1.2	17.4	1.3	19.2	2.3	18.7	1.7	18.5	2.4	1
2	18.2	3.6	17.9	1.1	18.0	1.0	18.1	1.2	17.1	1.1	19.2	2.5	18.9	2.2	17.9	2.1	2
3	18.1	3.0	17.9	0.9	18.0	1.3	17.7	0.9	16.9	1.2	19.0	2.9	18.8	2.5	17.7	2.4	3
4	17.1	2.3	17.3	0.7	17.1	1.0	17.3	1.2	16.9	1.2	18.7	2.5	18.9	2.7	16.9	2.3	4
5	16.3	2.2	16.7	0.9	17.0	0.9	16.5	1.3	17.8	1.2	17.6	2.6	18.9	2.8	16.6	2.3	5
6	17.1	1.4	16.7	0.9	17.1	0.9	16.5	1.3	17.2	1.2	16.9	2.7	18.9	2.6	16.8	2.0	6
7	16.9	1.7	17.6	1.6	17.1	0.8	17.7	1.6	17.9	1.7	16.4	2.3	19.0	2.3	17.8	2.0	7
8	19.1	3.1	19.0	2.2	18.6	1.0	20.6	2.4	20.1	3.1	19.6	2.7	20.5	2.7	20.0	3.0	8
9	0.8	4.6	19.3	2.3	20.7	1.9	22.2	3.4	22.2	4.2	21.1	3.9	22.2	3.8	21.2	[illegible]	9
10	22.1	5.6	21.5	3.7	21.1	2.5	23.4	5.1	22.3	4.5	22.0	4.0	22.6	4.0	22.1	4.1	10
11	22.0	5.3	22.1	4.8	21.6	2.4	24.1	5.6	23.1	4.9	22.9	4.3	22.1	3.2	23.7	6.4	11
Noon	21.7	4.8	22.5	4.5	22.0	2.4	24.6	6.3	23.4	5.2	22.9	4.5	23.8	5.1	24.0	6.8	Noon
13	22.1	5.1	22.6	5.1	22.2	3.3	25.0	6.4	23.2	5.0	23.0	4.3	24.0	5.4	24.3	[illegible]	13
14	22.1	4.5	22.1	4.5	23.1	5.0	24.9	5.8	22.7	4.6	23.2	4.1	23.7	4.9	24.1	6.2	14
15	22.4	5.2	21.9	4.8	22.5	3.7	23.3	4.6	22.9	4.6	23.1	4.1	23.4	4.6	23.5	6.3	15
16	21.3	4.2	21.6	4.1	22.0	4.1	22.5	4.3	21.1	2.4	22.6	4.0	22.6	4.4	22.8	5.7	16
17	20.9	3.8	21.1	4.0	21.9	4.0	21.7	4.0	21.0	2.9	21.5	3.4	21.7	3.7	22.0	5.0	17
18	19.0	2.0	19.7	3.0	20.3	2.5	20.7	3.6	19.3	1.5	20.6	2.9	20.6	3.3	20.8	3.9	18
19	18.3	1.3	18.8	2.7	19.0	1.8	19.2	2.5	19.9	1.7	20.0	2.1	20.1	2.9	19.3	2.7	19
20	18.0	1.6	18.0	1.9	18.2	1.3	18.9	1.6	19.6	1.0	19.1	1.1	20.1	2.8	18.3	2.2	20
21	18.0	1.6	17.3	1.2	18.1	1.1	18.9	1.7	19.1	1.1	19.0	1.3	20.0	3.0	19.3	3.0	21
22	18.0	1.5	17.1	1.1	18.3	1.2	18.3	1.2	19.4	1.7	18.9	1.7	19.7	3.0	18.2	2.2	22
23	18.0	1.4	17.2	1.2	18.7	1.3	18.1	1.1	19.2	2.2	18.6	1.3	19.0	2.8	17.3	1.9	23

Day / Hour	25		26		27		28		29		30		31		Mean		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	17.0	2.2	18.2	0.8	19.1	2.1	17.1	1.1	18.6	1.3	19.6	2.9	18.6	1.5	18.4	1.6	Midnight
1	17.3	1.6	19.1	2.2	19.1	2.0	[illegible]	1.1	19.0	1.2	19.1	1.5	18.2	1.1	18.2	1.5	1
2	16.3	1.7	18.1	1.0	18.9	1.9	[illegible]	1.0	18.7	1.4	18.6	1.5	18.1	1.1	18.1	1.5	2
3	16.6	1.7	18.0	1.8	18.9	1.9	[illegible]	1.9	18.3	1.2	19.0	1.3	18.0	1.3	18.0	1.6	3
4	16.2	[illegible]	18.1	1.1	19.0	1.9	17.0	[illegible]	17.3	1.1	17.9	1.6	18.0	1.3	17.5	1.4	4
5	17.2	1.2	18.2	1.2	18.3	1.3	18.1	1.4	17.3	1.1	17.9	1.6	18.0	1.3	17.5	1.4	5
6	16.1	1.0	18.1	1.1	18.3	1.3	18.0	1.3	17.2	1.1	18.3	1.1	18.1	1.6	17.4	1.4	6
7	16.3	1.1	18.6	1.4	19.0	1.3	19.0	1.8	18.8	1.7	18.8	1.9	18.7	1.3	17.8	1.5	7
8	20.1	2.1	19.1	1.2	22.0	2.7	20.1	2.0	20.3	1.6	20.3	2.2	21.0	2.1	19.6	2.0	8
9	21.1	3.2	20.3	1.9	23.1	3.9	22.1	3.5	22.9	4.2	22.1	3.4	23.0	4.2	21.3	3.0	9
10	22.2	4.0	22.2	3.3	23.7	4.3	23.1	4.1	23.9	4.8	22.1	3.2	23.4	5.2	22.3	3.8	10
11	23.1	5.3	23.0	4.0	24.9	4.9	24.2	5.3	24.3	5.4	24.0	4.8	24.3	5.9	22.8	4.2	11
Noon	23.7	5.7	22.1	3.0	24.9	5.3	24.1	5.1	25.1	5.9	24.8	6.1	24.9	6.0	23.2	4.6	Noon
13	23.1	4.9	[illegible]	4.0	25.1	5.3	23.4	3.7	25.3	5.7	25.0	6.2	25.1	7.1	23.3	4.7	13
14	24.0	5.6	[illegible]	4.7	25.2	5.1	24.1	4.8	24.4	5.4	24.3	6.0	24.2	5.8	22.9	4.5	14
15	21.0	2.5	23.1	4.7	25.2	5.1	24.1	4.8	24.4	5.4	24.3	6.0	24.2	5.8	22.9	4.5	15
16	22.1	4.0	22.5	4.4	24.3	4.7	24.0	4.6	23.8	5.2	24.1	6.1	23.7	5.5	22.4	4.2	16
17	19.3	1.2	21.6	3.9	23.6	4.4	22.8	3.5	22.6	4.4	22.7	4.5	22.7	4.8	21.5	3.5	17
18	19.7	1.7	21.0	3.5	21.6	2.8	20.9	2.1	21.2	3.2	21.2	3.3	21.2	3.3	20.4	2.8	18
19	19.2	1.4	20.7	3.4	20.1	1.8	20.6	1.9	21.2	3.4	20.4	2.5	20.2	2.7	19.7	2.4	19
20	19.3	2.1	20.3	3.1	19.2	1.2	20.3	1.5	20.0	2.3	20.2	2.3	19.2	1.2	19.2	2.0	20
21	19.1	2.0	20.1	2.9	19.0	1.3	19.9	1.3	19.7	2.1	20.1	2.1	18.8	1.6	18.9	1.9	21
22	19.0	1.9	20.0	2.7	18.1	1.1	19.6	1.3	19.1	2.0	19.1	2.0	18.9	1.6	18.7	1.8	22
23	18.9	1.6	19.9	2.6	17.7	1.1	19.1	1.1	19.0	1:8	18.7	1.7	18.0	1.4	18.5	1.7	23

TABLE XII - DIRECTION AND VELOCITY OF THE WIND AT EVERY HOUR OF THE DAY AS RECORDED BY THE ROBINSON CUP ANEMOMETER DURING AUGUST, 1942

The Directions are given in points and the values indicate the direction from which the wind blows counting from North (0), East (8), South (16) and West (24)

The velocities are given in metres per second, using the factor 2.2

(The days on which the Normal Trade Winds are interrupted were indicated by an asterisk *)

AUGUST, 1942

Hour \ Day	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Mid-night	09	3.7	11	2.1	11	[illegible]	11	2.5	10	3.1	10	3.9	10	2.2	12	2.9	10	2.8	11	1.5	10	2.1	10	3.0	11	1.2	08	1.7	10	1.8	13	1.3
1	09	3.7	11	2.0	11	2.5	11	2.7	10	2.5	11	2.8	12	2.9	12	2.1	11	2.5	12	2.4	12	2.2	10	3.7	12	1.4	09	1.6	10	2.2	12	1.8
2	09	3.5	11	2.3	10	2.1	12	2.9	10	3.3	11	3.1	12	2.6	12	2.1	12	3.1	11	2.6	11	3.1	08	3.4	12	2.3	06	1.8	12	2.1	12	1.8
3	09	2.9	11	1.9	11	2.0	11	3.2	11	2.2	11	3.3	12	2.5	12	1.4	12	4.3	11	2.6	12	1.5	77	2.6	12	2.3	09	1.6	12	1.7	13	3.4
4	09	3.7	11	1.5	11	3.2	10	2.6	11	2.8	09	2.0	12	1.7	12	1.5	11	2.2	12	2.4	12	1.8	11	2.6	12	2.4	10	2.0	12	1.9	14	3.6
5	09	4.3	11	1.7	11	2.3	11	1.7	10	2.4	08	4.0	12	2.0	08	1.6	07	1.3	12	2.4	12	2.0	11	2.9	12	1.3	10	1.3	12	2.0	14	3.1
6	09	3.6	11	2.0	11	2.2	10	2.2	10	3.0	08	3.5	12	2.2	13	1.3	11	2.7	12	2.6	12	1.5	11	2.7	12	2.0	10	2.1	12	2.2	14	3.8
7	09	4.2	11	2.1	11	2.7	11	2.1	10	3.1	10	3.1	12	2.7	13	3.2	11	3.6	12	2.0	12	1.8	11	2.5	12	1.9	10	1.5	12	1.9	16	1.8
8	09	2.9	10	3.4	11	3.3	12	3.2	11	3.5	10	3.4	12	2.2	13	1.8	10	4.3	12	2.9	12	1.1	11	2.9	13	1.8	10	1.4	12	1.3	13	4.4
9	10	4.9	07	4.3	11	4.2	09	4.3	09	5.1	08	2.9	07	1.5	12	3.2	10	5.5	11	4.4	11	3.2	09	2.7	13	2.1	10	2.0	08	2.2	13	5.0
10	09	5.7	08	5.5	10	5.4	10	6.0	09	6.0	12	6.5	12	3.3	12	5.6	12	6.9	11	4.2	12	3.5	11	5.8	11	4.0	10	2.1	07	2.4	13	6.9
11	09	6.5	09	5.0	09	5.4	08	5.7	09	6.7	09	7.1	13	4.4	11	4.2	10	6.4	09	3.5	12	5.4	10	4.4	12	4.1	08	2.2	05	1.6	13	6.5
Noon	08	6.6	09	5.5	10	5.7	10	5.7	09	6.7	09	6.4	09	4.0	11	6.4	10	6.1	10	3.6	12	4.7	09	5.1	11	4.2	09	1.8	03	2.8	11	3.0
13	09	5.5	10	5.7	10	6.4	09	6.3	08	6.8	12	6.7	10	5.1	12	6.0	10	5.9	09	4.5	12	4.8	10	4.9	07	3.8	05	3.3	24	2.5	12	7.6
14	07	4.8	10	5.6	11	5.9	10	6.7	10	6.4	11	5.8	07	4.4	12	5.0	10	5.9	12	5.4	10	4.9	11	5.2	07	4.7	04	3.2	23	2.6	13	7.8
15	10	5.2	09	5.4	11	6.0	09	6.5	10	6.0	10	7.6	12	2.2	13	5.9	12	5.9	13	5.7	10	5.0	12	5.2	12	4.4	03	2.9	07	2.0	12	7.1
16	10	4.4	10	5.3	10	5.5	12	5.7	10	6.1	09	7.1	12	3.0	12	5.2	10	5.9	13	4.7	12	5.2	10	4.3	09	4.4	07	2.6	07	2.0	13	6.0
17	10	4.4	10	4.4	11	5.1	10	5.3	10	5.3	10	5.9	11	3.8	12	2.9	11	5.6	12	4.0	10	5.1	09	4.6	12	4.0	07	2.0	06	1.6	12	5.3
18	10	2.5	09	3.1	11	3.9	10	4.4	10	3.9	10	4.3	12	2.3	12	2.6	11	3.7	13	2.6	11	3.4	10	2.3	13	2.8	07	1.4	06	2.4	12	5.3
19	11	2.5	09	3.7	11	2.5	10	3.9	11	2.6	11	2.2	11	2.6	11	2.9	12	3.2	13	2.3	11	2.0	11	3.0	11	3.2	07	1.5	11	1.3	13	4.4
20	11	2.0	10	1.4	11	2.7	11	3.3	11	3.4	11	1.8	12	3.1	12	3.3	12	2.1	13	3.0	11	3.9	11	3.7	10	2.1	07	1.1	15	2.0	12	3.2
21	11	2.4	11	2.4	12	3.6	10	3.6	08	4.9	11	1.6	12	4.0	11	1.9	12	2.0	12	2.8	11	3.6	11	2.0	11	2.4	10	1.8	15	1.3	13	4.2
22	11	2.7	12	2.2	08	2.4	09	3.5	11	4.7	11	1.7	12	3.8	11	2.8	09	1.8	12	1.9	12	3.0	11	1.3	09	3.1	10	1.5	15	1.6	12	2.7
23	11	2.3	12	3.9	12	3.3	11	3.3	12	2.3	11	1.8	12	2.0	11	2.0	09	1.8	11	2.9	11	3.2	11	1.3	10	2.3	10	1.6	16	1.6	11	2.9

Hour \ Day	17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		Mean
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velo-city
Mid-night	10	3.0	10	2.2	10	[illegible]	12	1.5	11	2.3	11	4.2	10	5.4	11	3.2	11	1.8	11	1.7	10	4.4	11	2.2	11	2.2	12	2.3	12	1.7	2.5
1	11	2.8	10	2.9	11	2.5	12	1.8	11	1.9	11	4.1	11	5.1	10	3.5	11	1.5	09	2.9	09	4.9	11	2.2	12	3.0	12	1.9	11	2.5	2.7
2	11	3.2	11	3.1	10	2.1	12	1.5	11	2.1	11	4.5	11	4.9	11	2.6	11	2.0	10	1.9	10	4.8	11	2.9	10	3.5	11	2.0	11	1.8	2.7
3	11	2.2	12	2.2	10	2.0	12	1.1	11	1.8	11	3.3	10	4.4	11	2.1	11	1.9	10	1.8	10	4.4	11	2.0	11	2.1	10	2.3	11	1.8	2.4
4	12	2.2	12	1.8	10	1.9	12	1.5	11	2.3	11	3.4	11	4.7	11	2.0	11	1.8	11	2.3	10	3.7	12	2.3	11	2.2	11	2.3	11	2.4	2.4
5	12	1.8	12	2.2	10	1.7	12	2.1	12	1.8	11	2.4	11	4.4	11	2.0	10	2.2	11	1.0	10	3.1	14	2.8	11	1.3	11	2.1	11	2.1	2.2
6	08	2.0	09	3.5	10	2.0	11	1.8	12	2.2	11	2.0	10	5.5	11	1.8	11	1.9	11	2.7	10	3.5	15	1.8	11	1.7	13	2.7	12	2.2	2.5
7	13	2.4	11	2.0	10	1.9	12	1.7	11	3.0	11	2.3	11	4.9	11	2.0	11	1.7	10	2.2	10	2.1	15	2.3	11	2.5	13	2.7	12	1.9	2.4
8	13	2.7	07	3.5	10	1.5	12	1.7	11	3.1	11	3.5	10	5.9	11	2.2	08	3.1	11	2.8	10	3.3	13	3.2	10	3.4	12	2.2	11	3.1	2.9
9	10	4.0	10	5.2	12	2.9	10	3.8	10	5.0	11	5.2	10	7.5	09	5.3	09	4.1	11	4.4	07	4.1	12	2.4	10	5.4	10	4.6	12	5.3	4.1
10	08	6.4	11	4.7	10	1.8	10	4.2	09	6.3	11	6.7	09	8.0	09	6.1	10	4.3	09	6.3	09	4.1	12	2.8	11	5.9	11	4.2	09	5.9	5.1
11	10	5.9	09	6.0	10	1.9	08	5.4	11	6.0	11	6.5	11	8.2	09	7.0	09	5.1	08	6.3	08	3.6	10	4.0	12	6.1	11	5.0	10	5.4	5.2
Noon	11	5.7	09	5.2	03	4.1	10	5.0	11	6.1	10	6.7	09	8.3	09	6.4	09	5.5	10	6.4	11	3.1	12	2.5	11	6.2	10	5.4	08	4.9	5.3
13	[illegible]	[illegible]	[illegible]	[illegible]	11	3.7	09	5.0	09	6.4	11	7.5	09	8.3	08	6.1	10	6.0	12	5.7	09	3.9	16	3.6	12	6.1	11	5.9	09	5.6	5.5
14	[illegible]	[illegible]	[illegible]	[illegible]	08	2.9	12	5.1	09	5.9	10	7.2	09	8.0	09	5.9	10	5.9	10	6.0	09	3.7	12	3.8	11	6.1	12	5.3	10	5.3	5.4
15	[illegible]	[illegible]	11	5.0	08	4.7	09	5.7	09	5.0	10	7.4	09	7.9	09	5.7	10	4.9	10	6.5	12	4.4	09	4.6	09	6.1	12	5.9	11	5.1	5.4
16	11	4.4	11	4.4	12	2.3	11	4.7	10	5.5	10	6.9	10	7.8	09	5.6	08	5.4	10	5.6	11	3.6	11	4.9	11	5.3	10	5.3	10	5.4	5.0
17	11	4.6	11	4.3	12	2.1	12	4.8	09	5.4	12	6.7	12	7.3	09	5.3	08	4.0	10	5.9	09	3.1	11	4.5	12	5.7	11	4.9	12	4.7	4.6
18	11	2.9	10	2.4	12	1.6	11	2.8	11	4.1	11	5.5	10	[illegible]	09	4.0	10	2.5	10	5.0	10	2.1	12	2.7	12	4.4	12	2.3	11	2.6	3.3
19	11	[illegible]	11	1.9	12	1.8	11	1.5	10	5.0	10	4.4	09	4.3	10	2.3	09	3.3	09	4.8	10	2.5	12	2.6	12	2.5	12	2.3	12	2.8	2.9
20	11	2.8	10	2.0	12	2.0	09	2.2	11	5.9	10	4.1	11	4.7	10	1.3	10	3.5	10	4.3	11	2.6	12	2.3	12	2.7	12	2.1	09	1.8	2.8
21	11	1.6	11	1.8	12	1.4	13	2.2	11	5.1	10	4.9	10	5.3	10	3.1	10	2.6	11	3.7	12	1.4	11	2.2	12	2.3	11	1.7	09	1.2	2.7
22	11	3.2	10	1.8	12	1.9	12	3.6	11	6.1	11	5.5	10	4.2	10	2.1	09	1.9	11	3.9	11	1.6	11	2.1	12	1.5	13	1.9	11	1.9	2.7
23	12	2.7	10	1.9	12	2.4	10	2.7	12	5.2	10	6.0	12	3.2	10	1.8	10	2.1	11	3.3	12	2.0	11	2.4	12	1.7	13	1.9	12	1.4	2.6

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS) AUGUST, 1942

Force (0-12)				Direction															
Hour	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W
3	-	-	31	-	-	-	-	3	5	23	-	-	-	-	-	-	-	-	-
9	-	2	29	-	-	-	-	10	10	11	-	-	-	-	-	-	-	-	-
15	-	16	15	-	-	1	-	10	7	13	-	-	-	-	-	-	-	-	-
21	-	-	31	-	-	-	-	2	6	22	-	1	-	-	-	-	-	-	-
Totals				-	-	1	-	25	28	69	-	1	-	-	-	-	-	-	-

TABLE XIVa - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY, FOR AUGUST, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	..	..	..	0.2	..	..	..	..	0.3	..	..	0.7	..	2.9	..	..	..	..	0.1	..	..	..	0.1	..	..	..	..	..	..	0.2	..
2	..	0.1	..	..	..	..	..	..	0.4	..	..	1.0	..	0.1	..	0.2	..	1.7	0.2	..	..	..	..	..	..	..	..	..	..	0.6	..
3	..	..	..	..	..	..	..	..	..	..	..	0.2	..	0.2	..	..	..	0.1	0.2	..	..	..	..	..	..	..	..	..	..	0.3	..
4	..	0.2	..	0.1	..	0.2	..	..	..	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	0.1	..	..	..	3.3	..	..	0.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.5	0.1	..	..	..	..	..
6	..	0.1	..	..	..	1.7	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	0.5	..	0.3	..	0.9	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	0.3	..	..	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.5	..	..	..	..	..
9	..	..	..	..	0.5	6.4	0.3	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	0.6	..	..	..	..	..
10	..	..	..	0.1	0.3	0.9	6.4	..	..	..	..	0.2	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	0.1	0.1	0.3	0.3	..	..	..	..	..	1.2	..	..	..	..	0.8	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	0.4	..	..	..	..	..	..	..	..	..	1.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	0.6	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	0.2	1.8	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	0.5	..	..	..	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	..	..	..	..	0.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..
18	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	0.4	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	1.3	1.4	1.7	..	..	..	..	..	..	..	..	1.2
21	..	..	..	..	0.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.9	0.3	..	..	..	..	..	..	..	..	..
22	..	..	0.4	..	0.9	..	..	..	..	..	..	..	0.1	..	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	0.1	..	0.2	..	..	..	..	..	..	..	..
24	..	..	..	..	..	..	..	0.6	..	..	1.0	..	2.2	..	..	..	..	..	..	..	..	0.5	..	..	..	..	..	..	..	..	..

TABLE XIVb - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR AUGUST, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	..	..	..	0.5	..	0.9	..	..	..	..	..	0.4	0.2	0.3	..	0.6	..	..	..	..	0.1	0.3	1.6	..	..	0.2	..	..	..	0.4	..
2	..	..	..	0.2	..	0.6	0.2	..	0.2	..	..	..	0.1	..	..	0.5	..	..	..	..	0.1	0.6	0.2	..	..	0.2	..	..	..	0.3	0.5
3	..	..	..	0.8	..	1.6	0.1	..	0.7	..	..	..	0.3	0.2	..	0.4	..	..	..	..	0.2	0.2	..	..	..	0.1	..	..	..	2.3	..
4	..	..	..	0.1	..	..	..	..	0.5	..	..	..	..	1.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.8	..
5	..	0.1	..	..	..	0.7	0.2	0.4	0.1	..	..	..	..	0.5	..	..	0.2	0.4	0.1	..	..	..	..	..	..	0.3	..	..	..	0.6	..
6	..	0.2	..	1.0	..	0.7	..	0.1	0.1	..	..	..	..	..	..	..	0.7	0.8	0.1	..	..	..	..	..	..	0.3	..	..	..	..	..
7	..	0.2	..	0.6	..	1.5	..	..	0.1	..	..	..	0.2	..	..	..	0.2	1.0	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	1.1	..	3.2	0.2	0.1	0.0	..	..	0.5	0.1	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	0.2	0.2
9	..	..	..	..	..	1.8	..	0.2	0.0	..	0.1	..	0.1	..	..	..	..	0.2	..	..	..	..	..	..	..	0.2	..	..	..	..	..
10	..	..	0.7	0.2	..	1.3	..	0.6	0.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	0.8	0.3	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	1.6	0.2	0.9	..	0.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	0.2	..	0.8	..	0.2	..	..	1.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	1.0	..	0.2	0.1	..	..	..	2.5	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	0.1	0.4	..	..	0.3	..	..	..	..	..	..	0.3	..	0.2	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	0.1	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	0.3	..	..	..	0.2	..	..	..	..	..	..	..
17	..	..	..	0.2	..	..	..	0.1	..	..	0.3	..	..	..	..	..	..	..	..	..	0.4	..	0.1	..	..	..	..	..	..	..	..
18	..	..	..	..	..	..	..	0.3	..	..	0.2	..	0.2	..	..	..	0.1	..	..	..	0.9	0.4	..	..	0.1	..	..	..	..	..	..
19	..	..	..	..	..	..	..	0.1	..	..	0.5	0.1	0.2	..	..	..	0.3	..	..	..	0.9	0.2	..	..	0.8	..	..	0.1	..	..	..
20	1.4	..	0.2	..	..	..	0.1	0.4	..	..	..	..	0.3	..	..	..	0.6	..	..	..	1.2	..	..	..	0.9	..	..	0.3	..	..	..
21	..	..	..	..	..	..	0.1	1.2	..	..	0.2	..	0.5	..	..	..	0.3	0.1	..	0.3	1.1	1.2	..	..	..	..	..	0.4	..	..	..
22	..	..	0.1	..	0.2	..	0.1	..	..	..	0.1	0.1	..	..	..	..	..	..	..	0.4	..	2.2	..	..	0.2	..	..	0.3	..	..	..
23	..	..	0.3	..	0.8	..	..	0.1	..	..	0.1	0.4	..	..	..	..	..	0.1	..	0.2	0.3	0.1	..	..	..	..	0.4	..	..	..	..
24	0.2	..	0.1	..	0.3	..	..	..	..	..	..	0.1	0.2	..	0.3	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..

TABLE XV - TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR AUGUST, 1942

RIVER SYSTEM	STATIONS	Approximate Altitude in feet	Total Fall		Normal in Inches	Number of Days
			Inches	Millimetres		
1	Mare Seche	20	2.20	55.9	2.40	12
	St Antoine	50	1.88	47.8	2.12	10
	Bel Mont	50	2.45	62.2	2.06	8
	Poudre d'Or	20	2.00	50.8	2.06	8
	Mon Loisir S.E.	300	2.10	53.3	2.78	10
	Forbach	300	1.75	44.5	2.29	9
	Couroupa	...	2.27	57.6	3.67	10
	Labourdonnais	290	2.28	58.0	2.76	9
	Mapou Water Office	...	...	...	...	..
	Beau Sejour	300	2.25	57.2	3.65	12
	Mont Piton	650	2.72	69.1	3.70	11
	Mon Choix	700	2.35	59.7	3.11	8
	Antoinette	640	3.47	88.1	3.59	17
	Mon Songe	620	2.63	66.8	3.97	12
	Botanical Gardens	325	2.82	64.0	2.98	24
	The Observatory	179	1.82	55.4	2.25	25
	Solitude	175	...	...	1.71	..
	St Andre Cour	90	...	...	1.97	..
	La Nicoliere	...	3.99	101.3	4.45	22
	California	...	3.96	100.6	3.74	16
	Australia	...	2.94	74.7	...	14
2 & 3	Union Regnard Flacq S.E.	600	1.99	50.5	3.69	14
	Constance la Gaiete	100	1.56	39.6	3.27	12
	Rich Fund	600	3.55	90.2	5.45	16
	La Joffrette	...	2.37	60.2	...	9
	Belle Vue Allendy	...	1.33	33.8	4.32	9
4	Sans Souci	900	5.71	145.0	9.17	27
	Beau Champ G.R.S.E.	20	1.95	49.5	3.64	14
	Olivia	400	3.04	77.2	6.01	15
	Trois Ilots	...	...	...	...	..
	Belle Rive	100	3.46	87.9	8.83	19
	Sebastopol	700	...	...	...	..
	Bonne Veine	400	4.62	117.3	8.48	22
5	Rose Belle	850	5.62	142.7	9.76	27
	New Grove	650	5.63	143.0	...	27
	Mon Tresor	...	6.08	154.4	...	21
	Mon Desert Carie	75	1.52	38.6	3.33	14
	Ferney	20	2.20	55.9	4.75	16
	Sauveterre	...	2.69	68.3	...	15
	Tivoli	[illegible]	6.29	159.8	10.96	23
	La Flora	[illegible]	5.67	144.0	9.84	23
	Riche Bois Britannia	650	[illegible]	104.4	5.75	14
6	Britannia S.E.	700	5.08	129.0	6.39	24
	Savannah Mill	200	2.62	66.5	4.08	20
	St Aubin	300	2.61	66.3	4.30	18
	St Avold	900	5.65	143.5	7.80	23
	Colmar	400	4.98	126.5	5.23	19
	Union S.E.	...	4.66	118.4	4.44	17
	Fontenelle	320	3.79	96.3	4.75	16
	Choisy	200	4.73	120.1	3.30	17
	Beau Bois	...	5.31	134.9	5.69	20
	Bel Air	...	2.86	72.6	3.68	8
	St Felix	...	3.00	76.2	...	8
7,8,9 & 10	BelOmbre	40	3.33	89.3	3.45	21
	Beau Champ B.du Cap	70	3.64	91.5	3.54	21
	Frederica	...	3.87	98.3	...	20
	Pierrefonds	...	1.33	33.8	2.38	16
	Ste Marie	...	3.87	98.3	...	21
	Hussonia	...	...	...	...	..
11	Curepipe Gardens	1840	5.23	132.8	8.09	21
	Mare aux Vacoas G.E.	1850	6.39	162.3	10.68	29
	Mare aux Vacoas Arnaud	1830	7.86	199.6	11.40	29
	La Marie Filter Beds	1700	4.27	108.5	6.82	27
	Sophie	...	...	...	...	..
	Reunion	1420	3.07	78.0	5.15	18
	Aerological Station	1393	3.18	80.7	5.41	28
	Phoenix	...	2.45	62.2	[illegible]	8
	Quatre Bornes	...	1.37	34.8	...	9
12	Quatre Bornes Board	1090	1.44	36.6	[illegible]	6
	Le Reduit Dep. of Agric.	1000	2.36	59.9	[illegible]	28
	Alma	1460	4.11	104.4	[illegible]	18
	Bagatelle	1250	2.73	69.3	[illegible]	11
	Highlands	1300	2.09	53.1	[illegible]	11
	Trianon	950	1.73	43.9	2.80	10
	Val Ory	1100	...	...	2.75	..
	Bassin	...	0.56	14.2	3.00	4
	Hermitage	1450	2.46	62.5	9.64	11
	Ebene	...	2.17	55.1	...	11
	Bega	....	1.56	[illegible]	...	17
	Mon Reve	...	2.61	[illegible]	...	16
	Mont Pevril	...	1.81	[illegible]	...	17
	Minissy	1150	3.19	[illegible]	3.25	17
	Plaisance	...	0.72	[illegible]	...	5
	La Ferme	350	0.88	[illegible]	1.28	11
13	Line Barracks	...	0.81	20.6	...	17
	Tobacco Research Stn Richelieu	...	[illegible]	[illegible]	...	[illegible]

TABLE XVI - PILOT BALLOON OBSERVATIONS FOR THE MONTH OF AUGUST, 1942

Date	Time	Surface		250 metres		500 metres		750 metres		1,000 metres		1,500 metres		2,000 metres		2,500 metres		3,000 metres		3,500 metres		4,000 metres	
		Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity
		°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.
1	09.36	084	9.3	093	6.9	092	13.4	076	11.6	068	10.2	073	3.8	145	8.0								
2	09.34	080	12.9	082	17.2	094	14.4	086	10.7	081	9.9	060	10.0	070	9.8	072	8.7	094	4.5				
3	09.35	128	7.1	111	4.5	079	10.3	104	10.6	106	9.3	118	11.0	125	11.8								
4	09.20	090	9.1	093	18.2	103	27.3	100	17.2	095	4.5	092	13.5	101	9.1								
5	09.17	096	10.5	090	13.6	096	6.7	093	13.7	103	12.1	103	11.4	093	14.7	087	11.0						
6	09.40	125	6.8	120	4.5	111	12.4	098	11.9	096	20.3												
7	09.39	094	2.7	083	4.7	106	8.2	117	9.9	108	8.7	108	10.8	101	8.1								
8	09.28	121	7.1	115	8.9	113	5.7	096	9.2	106	9.8	094	6.6	109	7.4								
9	08.39	128	6.0	124	7.1	112	8.8	111	12.3	086	10.9	051	8.2	076	8.3								
10	09.18	132	9.6	137	5.0	055	1.6	082	5.3	064	4.7	093	2.0	086	4.1								
11	09.08	111	3.4	115	2.6	100	3.6	106	6.8	097	8.2												
12	09.40	072	8.9	100	3.5	107	6.4	123	4.0	100	14.4	107	10.3	117	7.8	161	3.7	245	2.3				
13	08.35	093	5.6	095	4.4	103	4.1	098	5.6	091	7.9	081	8.1	068	9.7								
14	09.18	077	5.7	055	5.2	054	6.2	034	4.2	018	4.6	006	5.1	019	6.8								
15	09.30	035	2.3	042	3.0	080	2.3	119	2.7	185	2.4	161	4.0	142	13.0								
16	07.54	134	10.3	147	5.9	157	4.9	143	5.1	132	4.7	138	9.3	138	8.9								
17	09.28	113	3.8	099	3.8	093	10.7	093	10.6	101	16.4	106	12.5										
18	09.28	093	6.5	096	5.8	099	11.0	097	11.8	087	9.0	086	8.9										
19	09.47	144	4.8	111	5.5	100	5.1	083	6.0	075	6.0	103	6.8	084	11.8	083	10.1						
20	09.16	202	1.1	090	3.5	109	4.2	115	4.8	138	2.7	138	7.5										
21	09.35	082	6.3	111	4.4	118	7.8	114	9.4	135	11.2												
22	09.10	142	7.6	124	22.1	125	38.5	312	6.2	114	16.4	102	5.1										
23	08.40	083	4.3	111	7.9	110	15.8	104	17.1	113	12.2	102	12.2	093	13.7	045	6.6						
24	09.30	106	6.8	100	8.9	101	10.5	099	11.1	093	10.3	097	6.3										
25	09.17	080	3.5	088	5.1	095	7.6	091	10.4	092	15.7	097	9.0										
26	09.35	101	5.5	104	2.6	094	8.8	086	5.7	094	5.5	078	3.9										
27	09.19	109	6.2	117	3.8	106	3.7	099	4.1	100	6.1	092	5.6										
28	09.22	293	3.0	095	1.2	175	2.1	144	3.1	147	3.1	130	4.7	140	2.5	108	5.3						
29	09.22	080	8.2	091	13.4	091	15.0	102	5.1	100	4.0	103	11.7	119	11.4								
30	09.03	108	8.6	100	9.6	103	10.3	114	7.4	124	6.9	120	14.3	130	10.2								
31	09.40	098	8.8	104	4.2	106	4.3	113	9.5	116	8.9	120	6.0	108	4.9	168	5.6						

NEW SERIES (MONTHLY) VOL. XXVIII PART 9

MAURITIUS
ROYAL ALFRED OBSERVATORY

LATITUDE 20°5' 39"S., - LONGITUDE 3h 50m 12.6"E

RESULTS
OF
MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

SEPTEMBER, 1942

N.R. Mc CURDY, B.Sc., F.R. MET. SOC.

DIRECTOR

PUBLISHED IN 1966 BY

E.G.DAVY, O.B.E., B.Sc., F.S.S.

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TABLE I - RESULTS OF MAGNETICAL OBSERVATIONS MADE DURING THE MONTH OF SEPTEMBER, 1942

Month and Day 1942	Mean Declination (West)	Mean Horizontal Force (C.G.S. Unit)	Mean Vertical Force (C.G.S. Units)	Declination	Horizontal Force	Vertical Force
					Unit 1 γ	
SEPT.	° '					
1	14°22.1	.22408	.29968	6.7	79	37
2	22.0	415	967	7.0	63	32
3	22.1	426	964	5.5	36	30
4	22.4	430	964	7.5	33	21
5	21.6	423	966	6.8	55	27
6	22.7	414	969	6.5	75	24
7	22.2	421	966	5.6	40	24
8	22.2	418	969	2.7	24	18
9	21.8	424	967	6.0	23	31
10	21.6	421	967	9.8	29	38
11	21.1	430	971	6.7	43	23
12	22.5	397	973	8.0	88	33
13	22.5	411	972	9.0	46	42
14	22.3	414	975	7.0	37	26
15	...	...	...	...	..	..
16	22.5	417	975	7.6	35	35
17	22.5	408	977	6.8	88	17
18	22.7	411	977	5.5	31	26
19	22.5	415	980	5.6	25	20
20	22.3	419	975	5.5	50	20
21	22.5	413	980	6.0	55	26
22	22.3	419	981	4.5	36	26
23	22.7	426	...	7.3	21	..
24	22.6	433	978	6.3	33	35
25	22.1	431	977	7.5	28	30
26	...	426	975	...	43	39
27	22.5	426	975	8.8	42	31
28	...	...	980	...	43	39
29	22.9	434	976	9.0	16	32
30	22.6	438	974	6.0	21	23
Mean	14°22.29	.22420	.29973	6.67	42.7	28.5

Description of the Principal Magnetic Disturbances

Horizontal Force :

1st - Sudden increase (16 γ) in force - solar flare effect - followed by gradual recovery.
2nd - slightly disturbed; very rapid gradual increase until 9h 10m This is followed by rapid increase.
3rd - Almost quiet trace.
4th - slightly disturbed in parts. Very minor movements.
6th - moderately disturbed during second half. Irregular fluctuations mainly.
7th - slightly disturbed; positive wave (35 γ) culminating at 2h 50m.
11th - disturbance of long duration but moderate character starts at 15h 30m. Disturbance lasts throughout 12th and ends during first part of 13th. Wave form fluctuations with small oscillations superposed.
13th & 14th - slightly disturbed
15th & 16th - slightly disturbed throughout.
17th - moderately disturbed at end. Irregular fluctuations mainly.
18th - moderately disturbed at end. Large positive wave (45 γ) between 21 h 45m and 24h.
19th, 20th and 21st - slightly disturbed - Minor irregular fluctuations.
22nd - slightly disturbed.

T = .37430 ; Mean Dip = 53°12'.03 : X = .21719 : Y = -.05565 : Z = .29973
+ = The daily range is the difference between the greatest and least hourly values

TABLE II - RESULTS OF ABSOLUTE DETERMINATIONS OF THE MAGNETIC ELEMENTS DURING THE MONTH OF SEPTEMBER, 1942

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d. h. m	° '	d. h. m.		d. h. m.	° '	
8.13.11	14.22.0	3.12.22	.22449	3.13.29	53.11.31	.29958
15.14.36	14.20.2	7.11.58	.22422	15.14.46	53.13.50	.29970
22.14.21	14.20.0	11.11.29	.22412	22.14.29	53.13.13	.29974
29.14.01	14.18.5	14.11.59	.22421	29.14.12	53.09.37	.29963
		17.11.40	.22407			
		21.12.10	.22427			
		24.11.27	.22457			
		28. 9.49	.22445			

TABLE III - MAGNETIC DECLINATION (WEST) AT EVERY HOUR OF THE DAY AS REDUCED FROM THE PHOTOGRAPHIC RECORDS

SEPTEMBER, 1942

13° +

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
	'	'	'	'	'	'	'	'	'	'	'	'	'	'		'	
[illegible]	22.7	23.3	22.0	21.7	22.5	23.5	23.0	22.5	22.0	22.5	22.5	25.0	23.5	23.5		23.0	Midnight
1	22.5	22.5	22.5	21.7	22.7	23.5	22.5	22.7	22.3	22.5	23.0	26.0	21.0	22.5		22.0	1
2	22.0	22.0	20.7	21.7	22.5	23.0	23.0	22.5	22.5	22.5	23.0	24.0	21.5	22.5		21.5	2
3	22.0	21.7	22.0	22.0	22.3	22.5	20.5	21.7	22.3	22.3	23.3	20.0	22.0	20.0		21.3	3
4	21.7	21.5	22.5	21.7	22.3	22.3	22.0	22.0	22.5	22.3	23.0	20.0	21.0	21.5		21.5	4
5	21.5	22.0	22.3	21.7	22.3	22.0	22.3	22.0	22.3	22.0	22.5	21.5	20.7	21.5		21.5	5
6	21.0	21.0	21.7	21.5	22.0	20.7	21.5	21.5	21.5	21.7	22.0	20.7	20.0	20.5		20.3	6
7	19.5	19.5	20.7	21.0	20.7	20.5	21.0	21.5	20.7	21.5	21.3	22.0	20.0	[illegible]	21.0	20.0	7
8	19.5	21.0	21.0	22.0	21.3	22.0	21.5	21.7	21.0	22.5	22.0	18.0	22.0	21.5	23.3	22.0	8
9	22.0	24.0	23.0	24.0	22.5	24.5	24.0	23.0	22.5	24.7	23.0	24.5	24.5	23.5	23.5	23.0	9
10	24.3	25.7	25.0	26.0	24.5	26.0	25.3	23.0	23.5	25.5	23.7	25.5	26.0	25.5	24.5	26.0	10
11	25.7	24.0	25.5	27.5	24.5	26.0	25.0	22.5	24.3	23.0	23.0	25.0	26.5	26.0	26.7	27.3	11
Noon	25.0	24.0	24.0	26.3	23.5	24.0	23.0	23.0	23.0	21.0	21.0	23.5	27.0	23.5	26.0	26.0	Noon
13	23.5	23.5	22.5	24.5	21.5	23.0	21.5	23.0	21.5	19.5	18.3	22.0	24.0	22.5	25.0	24.0	13
14	21.5	21.5	20.7	23.0	19.0	21.5	20.0	21.0	19.0	17.5	17.0	20.7	20.0	20.0	22.0	21.0	14
15	20.0	19.5	20.0	20.7	17.7	19.7	19.7	20.3	18.3	17.7	17.0	21.0	19.0	20.0	19.0	19.7	15
16	[illegible]	18.7	20.0	20.0	18.0	19.5	20.0	20.3	19.0	15.7	17.5	21.0	19.0	20.5	19.7	20.0	16
17	20.0	20.0	20.7	20.3	19.5	19.7	21.0	21.5	21.0	21.0	18.5	22.0	21.5	22.0	22.0	21.5	17
18	21.0	21.7	21.5	21.0	20.7	22.0	22.0	22.3	22.5	22.0	19.7	21.7	22.5	23.0	23.5	22.5	18
19	22.0	22.3	22.5	21.5	21.0	24.5	22.3	22.7	22.5	20.0	22.7	23.3	23.7	23.5	22.5	22.7	19
20	22.5	22.5	22.5	22.0	21.0	24.0	22.5	22.7	22.3	22.5	20.0	24.5	23.5	23.0	24.0	22.7	20
21	23.3	22.5	22.7	22.0	21.8	23.7	23.0	23.0	22.3	22.3	20.3	23.3	24.0	23.7	24.0	23.5	21
22	23.5	22.5	22.5	22.0	22.0	23.0	23.0	23.0	22.5	22.0	22.0	23.0	22.0	23.5	24.5	23.5	22
23	24.0	22.3	22.0	22.5	23.0	23.5	22.7	22.5	22.0	22.0	22.0	23.3	23.0	23.5	23.5	23.3	23

13° +

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Mean		Hour \ Day
Midnight	22.5	23.0	[illegible]	[illegible]	21.7	[illegible]	23.0	22.5	23.0		22.5		22.5	22.7	22.9		Midnight
1	22.0	22.5	21.3	23.3	22.7	23.0	22.5	22.7	22.7		22.7		22.7	22.7	22.6		1
2	21.0	20.0	22.0	21.0	23.3	23.0	22.3	23.0	22.7		22.5		22.7	22.7	22.3		2
3	20.5	21.0	21.0	22.5	21.0	22.5	21.5	22.7	23.0		22.5		22.7	23.0	21.8		3
4	21.3	22.5	21.3	22.0	21.5	22.7	21.0	20.7	23.3		22.3		23.0	21.0	21.9		4
5	21.5	23.0	22.3	21.5	22.3	22.5	22.3	21.5	23.5		23.5		23.5	21.7	22.1		5
6	21.5	22.3	20.0	21.3	22.0	22.0	21.5	21.3	22.0		23.3		23.5	23.5	21.5		6
7	[illegible]	[illegible]	19.0	20.0	20.7	21.0	21.5	21.0	21.5	23.5	[illegible]	[illegible]	24.0	23.7	21.2		7
8	[illegible]	[illegible]	21.5	23.0	22.5	20.7	23.0	22.3	22.7	25.0	23.7	23.5	25.5	24.0	22.0		8
9	[illegible]	[illegible]	24.5	23.7	23.5	22.5	26.0	24.0	24.0	26.0	25.0	26.0	26.7	25.0	23.9		9
10	25.5	25.0	26.3	25.0	25.3	23.0	27.3	26.0	25.0	26.7	26.3	27.0	27.0	25.3	25.3		10
11	26.3	25.0	24.7	25.0	24.5	23.7	26.5	26.3	23.5	26.5	25.5	26.5	26.0	24.5	25.1		11
Noon	25.7	23.5	24.0	24.0	24.0	24.0	26.3	25.0	21.0	24.0	23.5	24.0	23.0	23.0	23.9		Noon
13	24.0	22.5	23.0	22.0	21.5	22.0	22.5	23.5	19.0	20.0	21.5	21.0	21.0	21.0	22.2		13
14	21.7	21.5	22.7	19.7	19.3	21.0	21.0	21.0	17.5	18.0	20.0	19.0	18.5	19.7	20.3		14
15	19.7	20.3	21.0	19.5	19.5	19.5	20.0	20.0	17.7	17.0	18.0	18.0	18.0	19.7	19.3		15
16	19.5	20.0	20.7	19.7	19.5	19.5	20.7	20.7	19.5	18.0	17.5	19.0	19.0	20.0	19.4		16
17	20.0	21.0	21.3	21.0	23.0	21.0	21.5	22.0	22.0	21.0	20.0	21.0	21.0	21.5	20.9		17
18	22.0	22.0	22.5	21.7	22.5	22.0	22.5	23.3	22.6	22.5	21.7	22.5	22.7	22.5	22.0		18
19	24.0	23.3	22.7	23.5	22.7	22.3	22.5	23.3	23.0	22.7	22.7	23.3	23.3	23.0	22.7		19
20	23.5	24.0	23.3	23.3	23.0	22.5	22.3	23.0	23.0	23.0	23.0	23.3	23.3	23.0	22.8		20
21	23.5	23.5	24.3	23.5	25.0	24.0	22.5	22.7	23.0	23.3	23.0	23.5	23.3	23.0	23.1		21
22	22.0	25.5	23.7	23.3	24.0	23.3	22.5	22.3	22.7	23.0	22.7	23.0	24.0	23.0	23.0		22
23	22.7	23.5	23.5	22.0	23.3	23.5	22.3	22.5	22.5	22.5	22.7	23.0	24.0	23.0	23.0		23

TABLE IV - MAGNETIC HORIZONTAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature in the Magnet Chamber)

SEPTEMBER, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
	.22000 + (C.G.S. UNIT)																
Midnight	400	387	415	418	419	422	403	414	415	424	416	415	400	423		409	Midnight
1	401	396	407	419	418	418	407	416	417	426	418	400	433	415		415	1
2	407	401	423	421	423	417	409	425	419	428	421	408	421	409		417	2
3	412	407	421	423	424	421	443	428	423	432	427	438	414	435		421	3
4	418	413	423	424	425	424	420	426	424	431	431	434	413	419		421	4
5	421	417	422	428	423	425	423	423	425	432	433	420	415	417		427	5
6	420	422	427	429	423	423	426	423	434	433	435	410	417	416	423	427	6
7	430	434	433	435	427	431	433	422	438	432	441	417	422	420	421	433	7
8	433	442	438	445	431	434	434	424	421	439	441	411	423	422	415	437	8
9	436	450	436	447	440	438	429	427	421	436	435	404	422	425	393	427	9
10	433	430	438	449	444	434	429	428	435	432	427	411	421	418	389	430	10
11	426	397	443	448	447	435	430	423	432	420	427	380	405	413	393	425	11
Noon	424	400	442	453	455	432	431	420	428	413	431	392	397	409	391	416	Noon
13	418	397	440	447	450	415	438	420	424	413	430	355	387	401	398	408	13
14	413	407	434	424	432	425	430	418	423	412	429	350	390	408	397	402	14
15	425	412	431	420	417	417	415	410	420	413	427	355	402	399	393	412	15
16	427	407	426	416	404	416	412	404	420	414	448	372	407	398	405	406	16
17	420	413	417	420	405	390	411	405	424	413	445	375	407	398	411	415	17
18	400	419	415	415	435	363	417	412	425	412	431	390	409	401	407	420	18
19	375	422	413	437	405	365	415	416	423	410	443	388	405	405	410	415	19
20	363	421	416	432	400	392	407	413	421	413	442	381	400	410	395	417	20
21	358	417	416	418	409	405	414	411	418	414	420	415	408	420	389	403	21
22	362	418	417	418	413	417	412	410	420	412	405	411	408	423	410	402	22
23	375	418	418	421	415	395	413	413	425	413	425	395	417	425	402	409	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Mean		Hour \ Day
	.22000 + (C.G.S. UNIT)																
Midnight	417	405	405	412	430	418	411	424	422	433	422		429	431	416		Midnight
1	430	410	415	417	430	419	421	425	424	435	425		430	435	419		1
2	438	429	420	432	425	421	429	427	423	434	431		432	435	422		2
3	435	423	427	423	427	425	425	430	430	439	436		433	438	427		3
4	433	416	423	423	430	423	431	440	427	438	435	437	435	437	426		4
5	421	410	421	425	430	425	423	438	429	431	437	435	436	439	425		5
6	423	415	423	430	420	426	431	432	430	440	436	434	442	442	426		6
7	425	415	422	435	425	433	427	435	433	430	445	441	436	443	430		7
8	428	419	428	434	421	432	431	437	435	438	438	443	433	442	432		8
9	425	419	423	431	413	415	432	443	430	440	435	449	437	445	431		9
10	412	416	416	433	421	426	430	447	430	432	435	450	441	447	430		10
11	405	407	404	430	427	443	423	448	432	431	435	449	442	445	426		11
Noon	405	406	415	430	427	442	433	453	437	430	433	448	440	443	426		Noon
13	410	405	409	425	390	430	427	444	445	427	427	443	443	443	420		13
14	391	402	403	421	375	408	430	441	449	420	417	442	435	442	415		14
15	350	401	405	413	390	400	425	435	442	431	410	433	443	434	413		15
16	370	410	412	385	397	397	418	430	438	430	412	427	439	439	413		16
17	385	413	405	400	395	401	418	425	431	426	414	423	430	438	412		17
18	391	410	406	410	407	412	422	424	427	420	409	423	427	436	413		18
19	385	398	405	410	404	415	424	421	427	408	403	431	427	437	411		19
20	388	407	409	410	405	418	423	420	425	403	415	430	430	436	411		20
21	389	401	420	402	400	407	425	422	423	391	421	428	427	434	411		21
22	419	420	423	406	410	414	424	423	421	411	423	431	429	427	414		22
23	410	418	417	423	421	411	416	423	422	420	425	432	430	426	416		23

TABLE V - MAGNETIC VERTICAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the affect of the diurnal change of temperature in the Magnet Chamber)

SEPTEMBER, 1942

.29000 + (C.G.S. Unit)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	972	976	967	967	967	970	972	971	973	970	973	974	977	973	✱	976	Midnight
1	973	973	970	967	968	969	971	970	970	969	972	975	972	973		977	1
2	973	973	969	967	968	969	971	970	970	968	971	973	972	973		976	2
3	972	972	971	967	968	969	968	968	970	968	970	963	972	968		975	3
4	970	971	970	967	968	969	972	969	970	968	969	964	972	971		974	4
5	968	970	970	967	968	969	972	970	971	969	969	967	973	970		974	5
6	968	967	967	967	968	968	971	971	970	969	968	969	972	970		973	6
7	964	964	963	966	965	967	971	971	969	971	969	974	972	969	976	973	7
8	967	967	967	969	971	973	974	973	972	977	974	977	980	970	980	981	8
9	972	973	973	974	972	976	948	975	975	981	981	985	986	977	984	985	9
10	980	980	973	976	975	978	957	975	975	970	985	990	992	986	983	993	10
11	983	978	967	973	971	977	960	968	973	964	981	987	992	991	980	992	11
Noon	974	970	962	963	9[illegible]6	970	969	964	964	950	971	985	992	985	975	984	Noon
13	962	967	954	957	960	967	960	963	950	943	962	970	965	988	968	974	13
14	954	956	946	954	950	960	952	958	944	944	962	957	955	980	958	965	14
15	950	948	943	955	949	954	950	957	945	951	964	963	950	970	963	958	15
16	946	955	945	[illegible]	953	956	957	964	953	959	966	965	955	967	966	959	16
17	953	962	954	959	958	960	964	972	962	965	968	968	968	963	970	964	17
18	961	964	963	961	965	972	970	973	969	971	970	971	968	973	973	969	18
19	964	955	964	961	967	976	971	973	970	973	971	973	970	974	971	970	19
20	969	9[illegible]	[illegible]	962	969	977	973	972	971	973	970	979	973	974	972	972	20
21	975	967	966	963	971	973	972	973	971	973	970	973	977	973	975	973	21
22	977	967	967	964	969	970	972	972	972	973	975	977	974	973	970	977	22
23	976	967	967	965	969	973	970	971	971	973	977	977	974	972	976	977	23

✱ Gas light failed

.29000 + (C.G.S. UNIT)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Mean	Day / Hour
Midnight	977	978	979	978	975	979	981	980	980	979	981	981	979	979	975	Midnight
1	976	977	980	977	976	979	979	979	979	979	980	980	979	978	975	1
2	972	977	978	975	977	979	978	978	978	978	979	979	978	978	974	2
3	973	978	978	978	977	980	978	978	978	978	978	978	977	978	973	3
4	973	980	978	977	977	981	981	977	979	977	978	977	977	978	973	4
5	973	978	978	978	977	980	978	978	978	978	978	978	977	978	973	5
6	973	979	976	978	977	980	982	980	977	978	978	976	977	977	973	6
7	973	981	977	980	979	986	990	985	979	980	979	980	978	977	974	7
8	978	985	988	980	984	992	995	990	983	984	982	988	983	979	978	8
9	982	987	989	980	990	993	997	993	987	989	985	995	989	982	981	9
10	987	989	993	978	992	989	990	988	987	990	988	998	992	982	984	10
11	986	982	987	972	987	983	980	980	980	983	982	993	985	979	980	11
Noon	986	973	980	967	975	972	967	970	972	967	973	985	968	970	972	Noon
13	978	967	973	960	966	967	✱	960	962	956	962	976	960	960	964	13
14	970	964	975	963	967	970		958	957	951	957	968	960	959	959	14
15	972	963	974	967	969	976		965	963	953	958	966	963	962	959	15
16	972	966	974	973	975	981		974	972	961	958	970	970	967	963	16
17	9[illegible]	971	976	975	987	984		978	977	970	967	975	973	972	969	17
18	977	981	974	980	985	983	982	980	980	977	976	977	977	973	973	18
19	980	977	981	979	984	982	981	981	979	970	971	977	978	973	973	19
20	979	980	979	978	983	983	981	981	979	982	981	977	978	975	975	20
21	979	[illegible]	979	978	983	983	981	981	979	982	981	977	978	975	975	21
22	976	[illegible]	978	977	982	981	981	980	983	983	979	979	981	976	976	22
23	977	973	977	977	979	981	980	980	980	983	979	979	979	978	975	23

✱ Gas light failed

TABLE VI - RESULTS OF METEOROLOGICAL OBSERVATIONS MADE AT THE AEROLOGICAL STATION, VACOAS(424.5 metres above mean sea level) DURING THE MONTH OF SEPTEMBER, 1942

Month and Day 1942	Observations at 10 a.m.									Temperature of the Air							Rainfall			
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat. = 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0 - 10)	3h	9h	15h	21h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Casella Pluviograph	Duration	Duration of Bright Sunshine	Percentage of Possible Sunshine
SEPT.	mbs	°C	°C	°C	%	mbs	°	m.ps		°C	°C	°C	°C	°C	°C	°C	mms	mins	hrs	%
1	972.7	18.5	2.8	12.7	74	15.7	80	5.8	9	15.3	19.0	20.2	16.1	21.5	14.4	7.1	1.5	30	9.7	83
2	972.4	19.5	3.8	12.7	65	14.7	85	3.6	4	15.0	18.7	20.5	16.5	22.3	14.6	7.7	1.8	85	8.9	77
3	972.3	17.6	1.8	14.5	82	16.5	120	4.9	5	15.7	16.8	19.7	15.8	20.7	14.9	5.8	3.1	80	6.4	55
4	972.6	20.4	3.8	13.9	67	15.9	140	2.7	3	14.3	19.4	20.3	16.6	21.7	14.2	7.5	...	..	9.2	79
5	972.9	17.8	1.6	15.1	85	17.2	90	4.5	7	15.9	17.0	18.8	16.1	21.4	15.9	5.5	0.6	20	6.5	56
6	972.8	20.7	1.2	18.8	89	21.7	85	4.7	0	14.1	20.1	19.7	16.2	23.0	13.9	9.1	5.2	75	8.8	76
7	974.0	19.4	3.0	14.2	72	16.2	95	8.1	4	15.1	18.7	20.2	16.7	21.7	14.9	6.8	0.4	15	10.7	91
8	975.3	17.4	1.5	14.0	85	16.8	95	6.0	8	15.5	17.1	19.7	16.2	20.5	15.2	5.3	2.9	100	3.3	28
9	974.8	18.2	1.3	16.0	88	18.2	90	6.7	9	15.7	17.4	19.1	16.5	20.2	15.7	4.5	7.7	165	5.9	50
10	974.7	18.5	2.0	15.2	82	17.3	90	5.4	6	15.3	17.7	20.0	16.2	20.9	14.9	6.0	3.6	80	7.9	67
11	974.9	19.2	2.5	15.0	77	17.1	85	5.6	7	15.8	18.5	20.0	16.3	21.6	15.4	6.2	1.0	35	7.4	63
12	974.1	20.3	1.0	18.7	91	21.6	85	4.9	6	16.2	20.0	19.9	15.4	21.6	15.1	6.5	0.3	15	4.9	42
13	973.0	18.5	1.2	16.5	88	18.8	CALM		10	16.0	17.8	18.2	16.5	19.3	15.0	4.3	13.7	330	0.0	0
14	972.1	19.4	2.2	15.7	79	17.8	125	4.5	8	13.7	19.3	21.2	17.3	22.6	13.6	9.0	1.9	125	9.6	81
15	973.4	17.2	0.5	16.4	95	18.7	85	7.2	10	16.6	17.5	18.3	16.4	19.2	16.1	3.1	24.4	605	2.3	20
16	973.1	18.8	1.7	16.0	84	18.2	80	5.4	8	16.4	18.4	20.0	16.7	21.7	16.3	5.4	6.3	125	6.9	58
17	972.4	18.8	1.5	16.4	87	18.7	60	5.8	8	16.3	17.8	19.7	17.2	22.0	15.0	6.0	0.6	25	6.9	58
18	970.7	21.0	3.6	14.9	68	16.9	65	4.9	2	16.9	20.3	22.1	17.6	23.7	16.9	6.8	0.1	10	10.1	84
19	970.7	21.5	1.3	19.5	89	22.7	70	4.9	1	16.4	20.8	22.2	16.3	24.4	16.0	8.4	...	..	9.1	76
20	971.9	21.5	3.2	16.3	73	18.5	CALM		3	13.6	21.0	22.1	16.7	24.2	13.6	10.6	...	...	5.8	49
21	972.5	20.6	2.6	16.3	72	18.5	115	7.0	8	16.8	20.3	21.1	17.7	22.3	16.0	6.4	0.9	25	7.9	56
22	972.5	21.9	3.6	16.0	69	18.2	80	4.5	1	16.7	21.3	22.2	17.0	24.3	16.0	8.3	...	...	10.2	65
23	972.2	20.8	3.6	14.8	69	16.8	90	3.8	4	16.2	20.3	22.7	16.9	23.8	15.8	8.0	0.3	45	7.6	63
24	971.3	21.7	3.8	15.4	67	17.5	90	2.2	3	16.3	21.3	21.8	16.5	23.3	16.1	7.2	0.2	15	4.8	40
25	970.4	21.9	5.0	13.3	58	15.3	CALM		4	14.0	20.6	20.5	16.3	26.1	13.2	12.9	0.8	40	6.1	51
26	970.9	23.0	4.3	15.9	65	18.1	CALM		7	15.3	21.8	20.7	17.6	24.0	15.1	8.9	...	..	4.2	35
27	971.5	21.0	3.3	15.5	71	17.6	95	1.5	8	16.4	20.2	22.0	16.1	24.3	15.8	8.5	...	..	9.3	77
28	973.0	21.4	1.9	18.3	83	21.0	110	3.6	6	14.5	20.8	21.7	14.8	23.6	14.4	9.2	0.1	10	8.3	69
29	973.8	20.5	3.6	14.4	68	16.4	95	6.7	3	15.8	19.6	20.5	17.4	21.8	15.8	6.0	0.2	5	11.0	91
30	973.4	20.3	1.1	18.5	90	21.3	90	5.4	7	15.5	19.8	21.4	16.3	22.4	15.5	6.9	0.8	50	9.4	77
Mean	972.7	59.9	2.5	15.8	77.9	18.0	...	4.3	5.6	15.6	19.3	20.2	16.5	22.3	15.2	7.1	78.6	2110	7.30	61.6
Average	971.6	19.6	2.4	15.6	77.6	17.7	...	4.8	6.4	...	...	...	...	21.5	15.0	6.5	90.7	...	6.97	58.5
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

EXCESS OF CERTAIN ELEMENTS AT PAMPLEMOUSSES OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	+ 42.3 mbs	Amount of Rain	- 13.4 mms
Temperature of the Air	+ 3.1°C	Duration of Sunshine	+ 15.2 hrs
Vapour Pressure	+ 0.5 mbs	Mean of Maximum Temperatures	+ 2.7°C
Relative Humidity	- 12.1 %	Mean of Minimum Temperatures	+ 1.7°C
Velocity of Wind	+ 0.1 m.p.s.	Absolute Maximum Temperatures	+ 0.4°C
Amount of Cloud	+ 0.1	Absolute Minimum Temperatures	+ 1.5°C

Greatest Rainfall Intensity : 2.5 mms in 10 mins.

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF SEPTEMBER, 1942

Month and Day	Atmospheric Pressure: Mean	Atmospheric Pressure: Excess above Average	Temperature of the Air: Daily Maximum	Temperature of the Air: Daily Minimum	Temperature of the Air: Daily Range	Temperature of the Air: Mean	Temperature of the Air: Excess above Average	Excess of Air Temp over Evaporation Temperature	Temperature of the Dew Point: Mean	Temperature of the Dew Point: Excess above Average	Relative Humidity (Sat. = 100): Mean	Relative Humidity (Sat. = 100): Excess above Average	Vapour Pressure	Minimum on the grass	Rainfall: Amount recorded by Dines Pluviograph	Rainfall: Duration	Amount of Evaporation	Mean amount of Cloud (scale 0-10)
SEPT.	mbs	mbs	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C	mms	min	mms	
1	1013.[illegible]	- 0.7	24.8	17.6	7.2	20.4	+ 0.1	3.2	15.0	- [illegible]	71	- 4	17.1	12.5	0.7	20	4.9	3.9
2	1013.5	- 0.8	25.2	16.0	9.2	20.0	- 0.3	3.4	14.2	- 1.4	69	- 6	16.2	14.2	1.8	75	4.8	5.8
3	1013.8	- 0.5	24.9	15.6	9.3	19.6	- 0.7	2.7	15.1	- 0.5	75	0	17.2	10.9	0.6	10	4.8	4.8
4	1013.8	- 0.4	25.7	14.7	11.0	20.1	- 0.3	3.7	13.7	- 2.0	67	- 8	15.7	09.8	0.0	...	4.8	1.9
5	1014.1	- 0.1	25.1	15.3	9.8	20.1	- 0.3	3.5	14.1	- 1.6	68	- 6	16.1	10.4	0.0	..	5.6	3.5
6	1014.5	+ 0.4	25.3	15.8	9.6	20.5	+ 0.1	3.8	14.0	- 1.7	66	- 8	16.0	10.2	0.6	20	6.5	3.6
7	1016.1	+ 2.0	25.0	18.0	7.0	20.9	+ 0.4	3.5	15.1	- 0.6	70	- 4	17.2	14.8	1.2	25	6.3	4.5
8	1017.3	+ 3.3	23.2	17.4	5.8	19.8	- 0.7	2.3	16.0	+ 0.3	79	+ 5	18.2	[illegible]	3.6	145	5.2	6.8
9	1016.8	+ 2.8	23.6	17.6	6.0	20.1	- 0.4	2.7	15.6	- 0.1	75	+ 1	17.7	15.2	2.6	75	1.9	6.7
10	1016.6	+ 2.7	24.9	17.2	7.7	20.4	- 0.1	3.2	15.0	- 0.7	71	- 3	17.1	13.9	2.1	105	5.0	6.4
11	1016.7	+ 2.9	24.4	17.9	6.5	20.5	- 0.1	2.7	16.0	+ 0.2	76	+ 2	18.2	15.5	2.4	100	5.4	4.7
12	1015.2	+ 1.5	25.0	17.2	7.8	20.9	+ 0.3	3.1	15.8	0.0	72	- 2	17.9	13.1	0.3	10	4.4	4.4
13	1014.0	+ 0.3	21.2	17.1	4.1	19.1	- 1.5	0.9	17.6	+ 1.8	91	+ 17	20.1	13.0	2[illegible].8	730	2.2	9.5
14	1013.6	- 0.1	24.9	16.4	8.5	20.3	- 0.4	2.2	16.7	+ 0.8	80	+ 6	19.0	12.8	0.1	10	2.0	6.4
15	1015.2	+ 1.6	23.3	17.8	5.5	19.8	- 0.9	1.3	17.7	+ 1.8	87	+ 14	20.2	13.9	6.8	300	3.7	6.9
16	1014.2	+ 0.6	24.1	18.7	5.4	20.7	- 0.1	2.0	17.5	+ 1.5	82	+ 9	20.0	15.4	5.6	220	1.9	5.9
17	[illegible]	- 1.1	24.1	17.1	7.0	20.7	- 0.1	2.2	17.1	+ 1.1	80	+ 7	19.5	14.2	3.5	60	3.9	5.2
18	[illegible]	- 1.8	25.2	19.0	6.2	21.6	+ 0.8	2.5	17.6	+ 1.8	78	+ 5	20.1	16.6	0.0	...	5.3	3.1
19	[illegible]	- 1.3	25.6	16.3	9.3	20.9	0.0	2.7	16.4	+ 0.6	76	+ 3	18.7	12.5	0.0	...	5.8	1.2
20	1013.0	- 0.4	25.9	15.9	10.0	20.2	- 0.7	2.0	16.9	+ 1.0	81	+ 8	19.2	12.2	2.5	60	5.5	3.1
21	1[illegible].8	+ 0.4	24.9	16.3	8.6	20.6	- 0.4	1.7	17.9	+ 1.9	85	+ 12	20.5	13.0	1.5	95	2.5	6.2
22	1013.5	+ 0.1	26.1	17.1	9.0	21.2	+ 0.2	2.8	16.6	+ 0.6	75	+ 2	18.9	12.7	0.0	...	4.9	1.5
23	1012.8	- 0.6	26.2	16.5	9.7	21.0	0.0	3.0	16.1	+ 0.1	73	0	18.3	12.2	0.0	...	6.0	2.0
24	1011.6	- 1.7	26.0	17.7	8.3	21.2	+ 0.1	2.5	17.1	+ 1.1	77	+ 4	19.5	12.7	0.0	...	6.2	2.2
25	1011.1	- 2.1	26.5	16.0	10.5	20.8	- 0.3	2.3	17.0	+ 1.0	79	+ 6	19.4	11.1	0.0	...	3.8	4.0
26	1012.1	- 1.1	25.7	15.[illegible]	9.9	20.4	- 0.8	1.8	17.5	+ 1.4	83	+ 10	20.0	11.3	0.3	25	3.6	3.8
27	1[illegible].5	- 0.6	25.9	17.7	8.2	21.3	+ 0.1	2.7	16.8	+ 0.7	75	+ 2	19.1	13.2	0.0	...	2.3	2.6
28	1014.3	+ 1.[illegible]	26.0	15.4	10.6	20.7	- 0.6	3.2	15.4	- 0.8	72	- 1	1[illegible].5	11.9	0.0	..	4.8	4.2
29	1015.2	+ 2.[illegible]	25.2	18.3	6.9	21.5	+ 0.2	3.9	15.0	- 1.2	67	- 6	17.1	12.9	0.0	..	6.8	3.1
30	1014.7	+ 1.8	25.7	18.1	7.6	21.2	- 0.2	3.2	15.9	- 0.4	72	- 1	18.1	12.7	0.2	[illegible]	6.3	4.1
Mean	1014.0	+ 0.4	25.0	16.9	8.1	20.6	- 0.2	2.7	16.1	+ 0.2	75.7	+ 2.1	18.3	12.9	65.2	2095	4.6	4.4
Average	1013.6	...	25.1	17.0	8.1	20.8	...	3.0	15.9	...	73.6	...	17.9	13.7	35.3	808	4.9	5.2
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

General Weather Conditions during the Month of September, 1942

Anticyclonic conditions prevailed except on the 25th-26th when an extra-tropical depression was moving east far to the south.

The only important departure from normal in the meteorological elements was rainfall. This was 185% of the normal and its duration 259% of the normal.

TABLE VII (Cont'd) DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF SEPTEMBER, 1942

Month and Day 1942	Duration of Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the Soil: 10 Feet	5 Feet	2 Feet	12 Inches	WEATHER 0h 3h 6h 9h 12h 15h 18h 21h 24h
SEPT.									
1	10.0	55	3.5	- 0.5	24.5	23.6	22.9	22.6	b bcro cro c bc b bo
2	9.5	61	2.8	- 1.2	24.6	23.8	22.9	22.5	cro oro cro bc b bc c
3	6.6	56	2.5	- 1.5	24.5	23.7	22.9	22.5	c bc cro bc b bo
4	10.9	93	3.1	- 0.9	24.5	23.5	22.9	22.3	b bc b
5	10.4	89	3.6	- 0.4	24.6	23.6	22.9	22.4	b bc c bc b
6	9.2	79	3.8	- 0.2	24.5	23.9	22.8	22.3	b bc bc bro
7	10.5	89	4.6	+ 0.7	24.5	23.9	22.8	22.8	bcro c bc bo b bc bcro
8	2.9	25	3.6	- 0.3	24.5	23.3	22.9	22.8	bcro bc cro bc b
9	7.6	64	4.3	+ 0.4	24.5	23.6	23.0	22.6	bro cro cqo bcqo
10	9.6	81	4.8	+ 1.0	24.4	23.7	22.9	22.3	bcro bcqo cro
11	5.8	49	3.8	0.0	24.4	23.6	22.9	22.5	cro bc bcro c bc b bo
12	8.5	71	3.0	- 0.9	24.4	23.4	23.0	22.6	b bc c bc bro
13	0.0	0	1.5	- 2.3	24.5	23.4	23.0	22.8	oro or oro c
14	7.0	59	2.3	- 1.4	24.5	23.3	23.1	22.7	bc c bc bcro
15	5.8	49	4.1	+ 0.4	24.4	23.3	23.1	22.7	bc b bcro or oqoro bcro
16	8.6	72	4.2	+ 0.5	24.4	23.5	23.1	22.5	bcro bc bcqo bc oro bcro bro
17	8.3	69	3.5	- 0.2	24.4	23.6	23.1	22.8	bc b bcqoro cqo bc bcro
18	11.1	92	3.1	- 0.6	24.3	23.3	23.2	22.9	b bc b
19	10.7	89	2.7	- 1.0	24.3	23.5	23.2	23.1	bo b bo
20	7.5	63	1.8	- 1.9	24.3	23.5	23.3	23.3	bo b cro bcro bc bo
21	7.1	59	3.0	- 0.7	24.3	23.6	23.4	23.3	c o oro cro bc b
22	10.6	88	3.1	- 0.6	24.4	23.6	23.4	23.2	bo b bc b
23	10.6	88	3.1	- 0.6	24.4	23.6	23.4	23.2	b bc b bo
24	8.3	69	2.2	- 1.4	24.3	23.6	23.5	23.6	bo b bc b bo
25	7.0	58	2.0	- 1.6	24.2	23.6	23.6	23.5	bo b bc c b
26	3.7	31	1.6	- 2.0	24.3	23.6	23.5	23.3	bo b bc oro bc b
27	8.0	66	2.4	- 1.2	24.2	23.6	23.5	23.1	bo b bc c bc b bo
28	8.8	72	3.0	- 0.6	24.3	23.6	23.1	23.5	bo bc b bc
29	11.1	91	4.3	+ 0.7	24.2	23.6	23.5	23.4	bc b bc b bo
[illegible]	8.7	71	3.4	- 0.2	24.3	23.6	23.6	23.5	b bcro bc b
Mean	23.14	68.2	3.15	- 0.62	24.39	23.57	23.19	22.88	
Average	7.98	66.9	2.77	...	24.59	23.71	22.68	22.86	
Column	19	20	21	22	23	24	25	26	27

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF SEPTEMBER, 1942

Element	Highest	hrs	Date	Lowest	hrs	Date
Atmospheric Pressure	1018.3 mbs	at 09.00	on 8th	1009.6 mbs	at 15.00	on 18th
Temperature of the Air	26.5°C	at 11.00	on 25th	14.7°C	at 03.40	on 4th
Daily Range of Temperature of the Air	11.0°C		on 4th	5.4°C		on 16th
Temperature of the Dew Point	20.1°C	at 13.00	on 13th	10.9°C	at 10.00	on 6th
Minimum on grass				9.8°C		on 4th
Relative Humidity	97.3%	at 07.00	on 21st	43.6%	at 13.00	on 4th
Vapour Pressure	23.5 mbs	at 13.00	on 13th	13.0 mbs	at 10.00	on 6th
Evaporation in 24 hrs	6.8 mms		on 29th	1.9 mms	on 9th & [illegible]	
Wind Velocity	7.8 m.p.s.	at 13.00	on 7th	0.7 mps	often	
Rainfall in 24 hrs	29.1 mms	ending 19.00 hrs on 13th				
Duration of Sunshine	11.1 hrs		on 18th & 29th	0.0 hr		on 13th

Mean Day Temperature of Air 22.67°C Mean Night Temperature of Air 18.49°C

NUMBER OF DAYS OF

Mean Cloud Amount: 0	1 - 3	4 - 6	7 - 9	10	Rainfall: 0.1 - 0.9 mms	1.0 - 4.9 mms	5.0 - 9.9 mms	10.0 - 24.9 mms	25.0 & over mms	Lightning	Thunderstorm
...	10	16	4	...	7	9	2	...	1	...	...

TABLE VIII - ATMOSPHERIC PRESSURE IN MILLIBARS AT EVERY HOUR OF THE DAY AS DEDUDED FROM THE PHOTOGRAPHIC RECORDS

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level)
(The cistern of the barometer is 55.2 metres above mean sea level)

SEPTEMBER, 1942

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	153	139	143	144	144	152	159	179	176	175	175	167	149	141	150	154	Midnight
1	150	137	140	142	141	151	155	176	173	172	176	163	141	140	140	150	1
2	146	133	138	141	140	150	149	173	169	170	171	160	141	134	147	147	2
3	141	130	131	139	138	146	147	170	164	167	168	155	141	131	146	144	3
4	140	130	130	136	136	141	147	164	161	163	168	154	139	131	144	144	4
5	141	138	131	140	138	140	150	166	164	161	169	153	140	131	148	141	5
6	142	140	138	142	140	140	152	170	169	163	170	154	143	135	150	142	6
7	143	142	142	146	146	142	159	177	171	168	173	160	151	143	156	150	7
8	146	143	149	149	150	149	164	181	177	172	176	163	155	149	162	153	8
9	149	146	151	150	151	151	167	183	178	172	180	164	155	146	161	156	9
10	144	145	150	148	151	150	168	182	175	170	177	161	155	145	167	153	10
11	141	140	148	141	148	148	166	181	171	167	172	161	149	139	160	151	11
Noon	136	131	134	132	140	142	160	173	165	159	168	152	141	130	156	142	Noon
13	129	124	130	129	[illegible]	[illegible]	[illegible]	176	156	151	160	143	131	121	149	134	13
14	121	121	122	122	128	130	151	164	151	150	154	140	127	117	141	129	14
15	119	119	120	121	124	129	151	162	151	151	151	134	123	118	141	126	15
16	120	120	121	122	123	130	150	161	153	153	150	136	123	119	140	127	16
17	125	125	125	127	127	133	156	167	160	158	151	140	128	123	144	129	17
18	129	131	132	130	131	141	160	170	161	160	157	142	130	130	148	132	18
19	130	135	141	135	140	149	170	175	168	168	161	146	138	139	151	136	19
20	133	141	143	141	148	157	179	180	176	176	169	151	141	143	160	143	20
21	140	146	149	141	154	161	181	181	180	180	170	152	145	150	160	145	21
22	141	147	149	143	156	161	181	180	179	180	170	152	145	150	160	143	22
23	140	145	148	143	154	160	180	177	177	174	168	151	144	150	159	141	23

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Mean		Hour \ Day
Midnight	140	130	126	134	143	145	136	129	118	122	129	139	157	156	147		Midnight
1	137	127	125	130	140	141	132	121	113	120	126	139	154	151	144		1
2	130	121	121	124	135	140	131	119	108	119	121	135	152	150	140		2
3	123	116	117	120	131	134	129	114	101	113	117	133	151	144	137		3
4	121	116	118	120	131	133	128	114	101	111	116	138	151	142	136		4
5	[illegible]	119	121	122	134	138	129	116	102	116	118	141	155	143	138		5
6	[illegible]	120	123	126	140	141	131	118	108	120	121	143	157	150	140		6
7	[illegible]	121	129	130	144	143	137	123	111	126	128	150	160	151	145		7
8	132	128	130	137	150	148	141	130	117	131	132	152	165	154	149		8
9	136	130	130	141	151	149	141	131	120	131	134	153	169	156	151		9
10	131	126	130	140	151	146	141	131	121	130	134	156	161	156	150		10
11	129	120	126	133	147	141	136	126	114	129	131	151	158	150	146		11
Noon	121	114	119	124	141	132	127	121	110	122	125	143	151	144	138		Noon
13	[illegible]	106	111	120	134	124	120	112	106	116	120	139	142	139	132		13
14	[illegible]	099	109	119	124	119	111	102	101	111	115	133	138	131	126		14
15	[illegible]	096	104	121	123	116	110	096	098	107	112	130	131	130	124		15
16	110	09[illegible]	107	120	122	116	109	098	099	108	113	131	131	130	125		16
17	111	101	111	121	123	120	112	100	101	110	116	131	137	133	128		17
18	116	109	118	126	127	125	119	106	109	113	121	133	141	142	133		18
19	121	113	122	131	133	130	124	111	113	121	127	141	150	150	139		19
20	[illegible]	120	128	139	140	135	129	114	120	129	131	148	155	153	145		20
21	131	125	136	146	146	141	131	117	126	133	138	154	161	160	149		21
22	131	124	139	147	149	141	132	119	124	132	137	157	160	161	[illegible]		22
23	130	124	136	146	146	138	131	119	124	130	137	[illegible]	159	[illegible]	[illegible]		23

TABLE IX - AMOUNT OF CLOUD AT EVERY HOUR OF THE DAY (0 - CLEAR SKY, 10 - OVER CAST SKY)

Hour \ Day	SEPTEMBER, 1942																															Mean
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
Midnight	1	6	8	1	1	2	5	4	3	7	8	0	6	6	5	6	5	4	0	0	6	0	1	0	0	0	0	0	5	0		3.0
1	1	6	8	1	1	2	5	5	3	7	8	1	6	5	5	6	5	3	0	0	6	0	1	0	0	0	0	0	5	2		3.1
2	1	8	9	1	1	2	8	6	3	7	8	1	10	11	5	6	5	2	0	0	9	0	1	0	0	0	0	0	5	3		3.5
3	1	9	9	1	2	2	8	6	3	7	8	3	10	3	4	6	4	2	0	0	9	0	2	0	0	0	0	0	5	1		3.5
4	1	10	9	1	2	2	8	6	3	7	8	4	10	7	4	5	4	3	0	0	9	0	2	0	0	0	0	0	5	1		3.7
5	8	10	3	1	3	2	8	7	8	6	3	5	10	8	3	5	2	3	0	0	10	0	1	0	0	0	0	7	4	5		4.1
6	9	10	1	2	3	1	8	7	8	4	3	5	10	9	3	5	2	4	1	1	10	0	1	0	0	0	1	9	3	8		4.3
7	9	9	1	2	3	3	8	7	8	4	3	5	10	9	3	6	2	4	1	2	10	0	1	0	0	0	0	7	3	8		4.3
8	8	9	5	1	5	2	7	8	9	3	4	4	10	9	6	7	4	4	1	3	9	0	3	1	3	0	1	7	3	8		4.8
9	8	8	9	1	8	2	7	8	9	3	5	4	10	9	9	8	6	4	1	4	9	1	5	2	5	2	1	6	2	7		5.4
10	7	9	9	1	8	3	0	10	6	5	5	6	10	10	9	9	6	8	3	3	4	10	1	5	4	6	8	2	6	7		5.7
11	9	3	8	1	9	4	0	10	9	6	7	4	10	9	9	6	6	4	3	3	8	1	5	5	6	4	4	5	2	7		5.6
Noon	8	1	8	2	6	4	0	8	10	5	8	4	10	8	10	6	6	4	3	3	9	2	5	7	7	7	6	5	3	7		5.7
13	6	2	7	5	2	4	1	8	8	5	8	7	10	8	8	6	7	3	3	6	8	2	4	8	8	10	8	5	3	7		5.9
14	3	3	7	3	4	5	1	9	7	5	8	9	10	7	10	7	8	5	3	9	7	4	3	7	8	10	9	7	4	6		6.3
15	3	4	6	4	3	5	1	8	8	8	9	9	10	7	10	8	8	5	3	10	7	5	3	7	9	10	7	7	5	6		6.5
16	3	2	4	3	2	7	3	8	7	8	7	9	10	6	9	9	7	4	3	9	5	6	2	5	9	10	6	4	5	4		5.9
17	3	1	3	1	2	8	3	9	7	8	4	2	10	5	8	8	7	3	3	8	4	4	1	2	9	10	5	2	4	2		4.9
18	2	1	2	1	3	8	5	9	6	8	3	2	10	3	6	8	6	2	1	5	4	2	1	2	9	10	5	2	4	3		4.4
19	1	2	1	9	3	6	5	9	7	8	0	10	10	2	8	6	6	2	0	4	1	2	1	1	9	6	4	2	3	1		4.3
20	0	4	1	3	3	3	5	3	7	8	0	2	10	3	8	3	5	2	0	0	1	1	0	1	8	1	3	4	2	1		3.1
21	0	6	1	1	3	3	4	3	7	8	0	2	10	6	8	3	5	2	0	0	1	1	0	0	0	1	0	4	0	1		2.7
22	0	7	0	1	2	3	4	3	7	8	0	2	9	6	7	3	4	2	0	0	1	1	0	0	0	1	0	4	0	1		2.5
23	0	8	0	1	2	3	4	3	7	8	0	2	7	6	7	3	4	2	0	0	0	1	0	0	0	1	0	4	0	1		2.5

TABLE X - DURATION OF BRIGHT SUNSHINE AT EVERY HOUR OF THE DAY AS RECORDED BY THE CAMPBELL-STOKES SUNSHINE RECORDER

Hour Ending \ Day	SEPTEMBER, 1942																															Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		hrs
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m		
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0.0
7	40	20	30	33	12	36	0	0	7	36	0	35	0	0	0	7	0	34	25	30	0	0	30	38	38	35	37	34	44	0		11.7
8	57	60	40	60	55	60	57	0	25	60	16	60	0	0	0	58	13	60	60	60	44	45	46	60	60	60	60	40	60	50		23.3
9	48	28	8	60	40	60	60	0	17	60	56	60	0	12	44	60	40	60	60	60	0	60	44	60	55	60	60	60	60	60		22.1
10	50	18	20	60	60	60	60	10	47	60	40	50	0	48	0	55	46	60	60	60	12	60	55	60	45	37	60	40	60	40		22.4
11	60	50	15	60	60	60	60	8	56	60	60	20	0	50	50	45	60	60	60	60	40	60	60	60	60	14	39	20	60	55		23.7
Noon	40	60	30	60	60	60	60	8	32	60	16	55	0	60	45	60	60	60	60	60	30	60	60	33	40	11	41	46	60	50		23.0
13	60	60	3	60	60	60	60	18	20	60	17	50	0	60	40	50	60	60	60	55	43	60	60	4	38	8	20	60	60	60		22.1
14	47	60	40	60	60	60	60	54	40	60	44	8	0	45	20	60	53	60	60	5	55	60	60	4	1	0	0	40	60	60		20.6
15	60	60	60	60	60	60	60	13	60	60	0	40	0	35	40	40	51	60	60	0	60	60	60	34	4	0	40	14	60	60		21.2
16	48	60	55	60	60	28	60	45	60	10	15	35	0	50	40	40	60	60	60	0	60	60	60	60	25	0	28	60	60	60		22.0
18	40	35	37	19	32	0	36	0	35	26	25	37	0	27	28	20	9	30	18	20	38	8	36	35	1	0	36	51	20	7		11.8
18	40	35	37	19	32	0	36	0	35	26	25	37	0	27	28	20	9	30	18	20	38	8	36	35	1	0	36	51	20	7		11.8
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0.0

TABLE XI - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the absolute scale add 273)

SEPTEMBER, 1942

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	18.7	1.9	18.7	2.0	16.1	1.2	16.6	1.6	17.6	2.0	17.1	2.3	18.9	1.3	18.2	1.5	night
1	18.4	2.2	18.1	1.2	16.1	1.4	15.9	1.6	17.1	1.9	16.3	2.1	18.8	1.6	19.0	1.3	1
2	18.2	1.2	18.0	1.9	17.1	0.9	15.1	1.5	16.0	1.7	16.1	2.0	18.9	1.8	18.3	1.2	2
3	18.0	1.6	17.5	1.0	17.9	1.3	15.1	1.2	16.7	1.7	16.0	2.0	18.5	1.8	18.6	1.7	3
4	18.0	1.4	17.2	1.0	16.8	1.3	14.9	1.4	17.1	1.7	15.9	1.8	18.1	2.0	18.0	1.6	4
5	18.2	2.2	17.4	1.2	16.4	1.3	15.9	1.3	17.4	1.4	16.8	2.0	18.1	2.1	18.3	1.6	5
6	18.1	1.5	17.3	1.0	16.1	1.2	15.8	1.5	17.6	1.6	17.3	2.3	18.6	2.5	17.4	1.5	6
7	18.6	1.3	18.1	1.1	18.0	0.9	16.1	1.4	18.2	1.6	19.0	3.1	19.1	2.9	18.0	1.3	7
8	20.4	2.7	20.7	2.9	19.9	1.9	20.1	2.3	20.9	3.0	21.5	4.3	21.3	3.8	19.3	2.1	8
9	21.7	3.7	21.2	3.4	21.1	3.1	22.3	4.4	22.2	4.9	23.2	5.6	22.2	4.4	21.9	4.3	9
10	23.1	5.4	22.0	4.9	22.0	3.7	23.2	5.6	23.0	5.2	24.2	7.5	23.3	5.2	22.1	4.4	10
11	22.6	4.7	23.3	6.1	20.0	1.6	24.3	6.7	23.1	5.5	24.8	7.1	24.1	5.1	22.5	4.4	11
Noon	23.7	5.8	24.1	6.6	22.6	4.2	25.1	7.4	23.9	6.0	24.6	6.3	24.3	7.0	21:2	2.0	Noon
13	24.2	6.0	24.9	7.4	23.0	5.0	25.1	7.6	23.9	6.3	24.7	6.4	24.3	6.6	20.1	2.0	13
14	23.3	5.2	24.9	7.3	24.3	6.5	25.1	6.9	24.2	6.7	24.8	6.1	24.6	6.8	22.5	4.0	14
15	24.0	6.4	24.1	6.8	23.8	6.0	24.9	6.8	23.5	5.9	24.2	5.6	24.0	6.2	21.4	2.6	15
16	23.1	5.1	23.6	6.4	23.1	5.3	23.7	6.1	23.1	5.1	23.2	5.1	23.2	5.3	21.9	3.2	16
17	22.1	4.3	22.1	5.1	22.3	4.6	22.2	5.1	22.1	4.8	22.0	5.1	22.1	4.1	20.3	1.7	17
18	20.9	3.6	20.7	3.9	21.0	3.7	21.3	4.0	21.1	4.0	21.3	3.9	21.0	3.4	19.2	1.6	18
19	19.4	2.4	19.1	2.6	19.7	2.9	20.9	3.3	19.4	3.1	19.6	2.3	20.1	2.8	18.9	1.8	19
20	18.9	2.2	17.9	2.1	19.3	2.4	18.9	2.9	20.3	2.4	20.0	2.7	20.0	2.9	19.0	2.0	20
21	18.7	2.4	17.0	2.0	18.7	2.4	19.6	2.3	18.6	2.5	20.0	2.7	19.8	2.2	19.1	1.9	21
22	18.6	2.4	16.1	1.9	18.0	2.0	19.0	2.1	18.0	2.3	20.0	2.2	19.7	2.2	19.6	2.3	22
23	18.7	2.5	16.4	1.5	17.5	1.6	18.1	2.0	18.2	2.3	18.9	1.7	19.1	1.8	19.1	1.5	23

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	19.2	2.1	19.6	2.9	19.2	1.6	18.7	1.7	17.2	1.5	18.2	0.5	19.3	1.1	18.9	0.8	Mid-night
1	18.7	1.5	19.1	2.9	18.9	1.3	18.4	1.4	18.2	1.2	18.2	0.6	19.2	1.1	19.0	0.8	1
2	18.6	1.5	18.0	1.9	18.3	1.7	19.0	1.7	18.8	0.7	18.0	0.8	19.0	1.0	19.1	1.0	2
3	18.3	1.6	18.1	2.2	18.3	1.2	19.1	1.5	19.0	0.9	17.1	0.6	18.9	1.0	18.9	0.9	3
4	18.1	1.5	17.9	1.7	18.2	1.1	19.3	1.5	18.6	0.9	16.8	0.8	18.5	0.9	19.0	1.0	4
5	18.2	1.2	18.0	2.0	18.2	1.5	19.3	1.4	18.6	0.8	16.9	0.8	18.5	0.9	18.9	0.9	5
6	18.0	0.9	18.0	1.9	18.0	1.2	19.0	1.7	18.2	0.8	17.4	0.7	19.1	1.0	18.9	1.6	6
7	18.6	1.3	18.9	2.4	18.3	0.7	20.0	3.0	18.1	0.7	18.1	0.8	19.0	1.0	19.8	1.2	7
8	19.3	1.3	21.3	3.9	20.7	1.6	22.2	4.1	18.9	0.8	18.9	0.8	19.1	1.1	19.1	1.0	8
9	20.0	1.4	22.1	4.7	22.2	3.2	23.7	5.6	19.3	0.8	21.5	2.5	21.7	2.1	21.7	2.5	9
10	22.0	3.5	23.2	5.4	22.3	3.2	23.3	4.4	19.9	0.9	22.1	3.3	19.8	0.9	21.3	2.1	10
11	22.0	3.9	24.0	6.1	23.7	4.4	22.1	2.5	20.5	2.0	22.6	3.3	21.9	2.2	22.7	2.8	11
Noon	20.4	1.8	24.6	7.4	24.1	5.5	24.7	5.4	20.9	0.9	23.7	4.6	20.9	1.3	23.0	3.8	Noon
13	22.6	5.0	24.2	6.2	23.9	5.4	24.3	5.1	21.0	0.6	24.9	5.7	22.0	2.2	24.0	4.1	13
14	23.0	5.2	23.7	5.7	23.4	5.1	23.3	4.6	20.1	0.3	24.1	4.1	21.2	1.5	24.0	4.3	14
15	23.0	5.2	23.1	5.2	22.9	5.1	23.2	4.9	19.9	0.5	23.6	4.8	20.2	1.2	23.2	4.0	15
16	23.0	5.0	20.2	1.6	23.0	4.8	23.2	4.9	19.1	0.3	23.6	4.9	21.7	2.1	23.1	3.8	16
17	21.8	4.5	19.7	1.7	22.6	4.7	22.7	5.0	19.1	0.6	21.7	2.7	20.3	1.4	21.3	1.7	17
18	20.8	3.6	20.0	2.5	21.1	3.0	22.0	3.5	18.9	0.8	20.9	2.0	19.7	1.7	20.9	1.9	18
19	19.9	2.8	19.6	1.9	20.1	2.3	20.7	2.4	18.6	0.7	20.0	1.7	19.1	1.2	20.2	1.9	19
20	19.9	3.0	19.0	1.2	19.1	1.8	19.1	2.0	18.6	0.7	19.2	1.3	19.0	0.9	20.0	2.1	20
21	19.3	2.8	19.0	1.7	18.2	1.5	18.2	1.9	18.6	0.9	19.8	1.3	19.1	1.0	19.3	1.3	21
22	19.1	2.8	19.0	1.7	18.1	1.5	17.8	1.6	18.3	0.7	19.6	1.2	19.0	0.9	19.2	1.0	22
23	19.4	2.6	18.9	1.7	18.3	1.3	18.0	1.3	18.3	0.8	19.4	1.2	19.0	0.9	19.4	1.2	23

TABLE XI (Ctd) - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the absolute scale add 273)

SEPTEMBER, 1942

Day / Hour	17		18		19		20		21		22		23		24		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	19.1	1.2	20.0	1.0	19.4	1.3	17.1	1.0	17.0	0.9	18.8	1.3	18.1	1.0	18.7	1.5	Midnight
1	19.0	1.2	19.2	1.0	18.5	1.4	17.0	1.0	16.3	0.7	18.5	1.2	19.1	1.4	18.2	1.2	1
2	18.6	1.2	19.2	1.1	18.1	1.1	16.8	0.9	17.8	0.8	18.1	1.0	18.3	1.2	18.3	1.2	2
3	18.6	0.9	19.1	1.0	18.1	1.3	16.6	1.0	18.3	0.7	18.1	1.0	17.7	1.2	18.1	1.1	3
4	18.3	1.1	19.0	1.0	17.7	1.3	16.3	0.8	18.7	0.7	18.0	1.1	17.5	1.2	17.9	1.2	4
5	18.2	1.1	19.4	1.1	17.0	1.1	16.3	0.8	19.0	0.8	17.2	1.1	17.2	1.2	18.0	1.1	5
6	17.2	1.0	19.1	1.0	16.8	1.1	16.0	1.0	19.1	0.8	17.6	1.0	17.1	1.1	18.0	1.1	6
7	17.8	0.9	20.1	1.2	18.8	0.8	18.1	1.0	19.2	0.3	19.6	1.6	17.7	1.3	20.3	1.6	7
8	20.4	1.2	22.2	2.4	22.2	2.4	22.1	2.0	21.0	1.0	22.1	2.3	21.2	1.9	22.2	2.2	8
9	21.9	2.3	23.5	3.5	23.3	3.7	23.2	3.1	21.0	1.0	23.7	4.3	23.1	3.4	24.1	4.0	9
10	22.3	2.9	24.1	4.0	24.1	4.2	24.3	4.2	20.8	0.8	24.8	5.6	23.2	4.3	25.0	4.4	10
11	23.1	4.0	24.2	4.2	24.9	5.0	25.0	5.3	22.4	2.4	25.3	5.3	24.1	4.6	25.8	5.8	11
Noon	23.7	4.7	25.1	5.1	25.1	5.1	25.7	5.7	23.1	3.0	25.6	5.8	24.9	5.6	24.2	3.9	Noon
13	23.9	4.6	24.7	4.4	25.1	5.1	25.3	5.6	23.9	3.7	25.9	5.7	25.1	6.1	23.6	3.2	13
14	23.1	3.5	24.8	4.6	25.0	5.3	24.2	4.3	23.9	3.8	25.3	5.1	25.6	6.6	24.1	3.4	14
15	22.7	3.5	24.2	4.1	24.9	5.0	22.0	1.4	24.2	4.2	25.0	5.1	25.2	6.1	24.3	4.7	15
16	22.2	3.0	23.9	4.1	24.0	4.4	22.0	1.0	23.7	3.9	24.3	4.7	25.0	5.7	24.7	5.0	16
17	22.1	2.8	23.2	3.5	23.9	3.9	22.2	2.1	22.7	3.0	22.9	4.2	23.8	4.4	23.7	3.6	17
18	21.2	2.2	22.1	2.5	22.6	3.4	21.8	1.2	21.5	2.3	21.6	2.7	22.0	3.1	22.9	3.2	18
19	19.4	2.4	19.1	2.6	19.7	2.9	20.9	3.3	19.4	3.1	19.6	2.3	20.8	2.6	21.1	2.0	19
20	20.5	1.7	20.7	1.7	19.1	1.6	19.2	1.1	20.2	1.3	19.8	1.8	19.9	1.9	20.0	1.9	20
21	18.7	2.4	17.0	2.0	18.7	2.4	19.6	1.0	20.0	1.2	19.1	1.3	19.2	1.8	19.1	1.6	21
22	20.3	1.4	19.6	1.4	18.1	1.3	18.0	1.0	19.9	1.3	19.0	1.3	19.0	1.5	18.7	1.3	22
23	20.1	1.2	20.0	1.4	17.7	1.4	17.7	1.1	19.3	1.1	18.5	1.2	19.1	1.5	18.1	1.2	23

Day / Hour	25		26		27		28		29		30		Mean				Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	17.6	1.0	17.5	1.2	19.0	1.1	17.5	1.7	19.1	1.8	18.3	1.9	18.4	1.5			Midnight
1	17.3	0.9	16.9	1.1	18.9	1.1	16.7	1.7	19.7	2.5	18.3	1.6	18.1	1.4			1
2	17.[illegible]	1.0	16.5	1.0	19.1	1.2	16.1	1.6	19.8	1.9	18.8	1.8	18.0	1.3			2
3	16.6	1.0	16.1	0.9	18.6	1.1	15.7	1.6	19.8	2.0	19.0	1.9	17.9	1.3			3
4	16.4	0.9	16.0	1.1	18.1	1.0	15.4	1.2	19.9	2.8	18.4	1.4	17.7	1.3			4
5	16.2	1.0	16.7	1.0	18.1	1.1	15.9	1.2	19.2	2.2	19.1	1.4	17.7	1.2			5
6	16.1	1.0	16.1	1.1	18.1	1.0	16.3	1.1	19.1	2.8	19.2	1.5	17.7	1.3			6
7	17.[illegible]	1.0	18.0	1.1	19.8	1.2	19.9	1.6	20.8	3.7	19.8	2.1	18.8	1.5			7
8	21.[illegible]	1.2	22.8	2.7	22.0	2.7	21.7	3.0	22.5	4.5	22.1	3.0	22.1	2.4			8
9	23.[illegible]	3.1	24.0	3.5	23.9	4.2	24.3	5.0	23.5	5.4	23.1	3.2	22.5	3.6			9
10	24.1	3.1	24.1	3.3	25.0	4.8	23.5	4.4	24.3	6.2	23.3	3.9	23.0	4.1			10
11	26.0	4.3	24.3	3.2	24.5	4.3	24.0	4.9	24.7	6.3	24.1	4.5	23.6	4.5			11
Noon	25.1	4.0	24.7	3.7	25.3	5.1	24.9	5.3	24.9	6.3	24.5	5.5	23.9	4.8			Noon
13	25.1	3.9	25.1	4.0	24.2	3.7	25.2	5.6	24.8	6.5	25.2	6.2	24.1	5.0			13
14	24.6	3.6	24.3	3.3	24.1	3.8	24.3	5.2	24.9	6.7	25.1	6.3	24.0	4.9			14
15	24.4	3.8	23.4	2.4	25.0	4.0	24.9	5.7	24.0	6.1	25.0	6.1	23.6	4.6			15
16	24.7	4.0	22.7	1.6	25.1	4.1	24.1	5.5	23.2	5.5	24.0	5.1	23.2	4.2			16
17	[illegible]	4.3	22.1	1.5	24.9	4.0	23.0	4.9	22.1	4.8	23.1	4.7	22.3	3.7			17
18	22.7	2.7	21.7	1.7	22.4	3.8	21.8	3.9	21.3	3.7	21.8	3.7	21.3	2.9			18
19	22.1	2.3	20.1	1.1	20.9	2.9	20.8	2.9	20.3	3.1	20.4	2.5	20.2	2.2			19
20	21.0	2.0	19.3	1.2	20.0	2.7	20.2	2.2	19.8	2.6	20.0	2.4	19.6	2.0			20
21	19.4	1.8	19.1	1.2	19.0	2.2	20.2	2.6	20.0	2.8	19.1	1.8	19.0	1.7			21
22	18.5	1.8	19.3	1.1	19.5	2.0	20.2	2.3	20.0	2.8	18.9	1.8	18.9	1.7			22
23	18.6	1.6	19.3	1.2	18.2	1.8	19.6	2.3	19.2	2.3	18.2	1.5	18.7	1.6			23

TABLE XII - DIRECTION AND VELOCITY OF THE WIND AT EVERY HOUR OF THE DAY AS RECORDED BY THE ROBINSON CUP ANEMOMETER DURING SEPTEMBER, 1942

The directions are given in points and the values indicate the direction from which the wind blows counting from North (0), East (8), South (16) and West (24)

The velocities are given in metres per second, using the factor 2.2

(The days on which the Normal Trade Winds are interrupted are indicated by an asterisk *)

SEPTEMBER, 1942

Hour \ Day	1		2		3		4		5		6		7		8		9		10		11		12		* 13		* 14		15		16	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Mid-night	12	3.1	11	2.7	12	0.7	12	1.3	12	2.3	11	1.5	12	2.5	08	1.7	10	3.2	10	3.5	10	3.2	09	2.6	09	1.2	09	1.8	10	2.1	11	2.8
1	12	2.2	11	2.5	12	0.9	12	1.8	12	2.1	11	2.3	10	3.5	11	3.1	12	2.5	11	3.7	06	4.2	09	2.2	09	1.8	09	1.8	09	2.0	10	2.4
2	12	2.2	10	3.1	11	1.6	12	1.5	12	1.1	11	2.3	10	3.5	11	3.1	12	2.5	11	3.7	06	4.2	09	2.3	05	0.8	09	1.2	13	2.1	10	3.1
3	12	2.0	15	1.4	11	1.2	12	1.4	12	1.9	11	2.1	11	3.0	09	3.5	12	3.0	12	4.1	11	2.9	11	2.0	05	1.5	08	1.1	13	2.1	10	3.5
4	12	2.0	15	1.9	11	1.2	12	2.3	12	1.6	11	2.3	11	2.5	11	2.4	12	2.5	12	2.8	10	2.6	05	1.2	08	1.3	05	1.2	13	1.3	11	3.7
5	12	2.0	10	3.5	11	1.5	12	2.1	12	1.4	11	3.0	11	2.7	08	1.3	11	2.8	10	3.0	10	2.5	09	1.8	05	0.7	08	1.3	13	2.1	10	5.2
6	13	2.2	08	1.7	11	1.8	12	1.3	12	2.0	12	3.1	10	3.7	08	2.0	08	1.4	11	3.1	11	3.0	09	2.7	05	1.0	07	1.1	12	2.9	08	4.3
7	13	1.4	11	1.7	11	2.2	12	1.2	12	2.0	12	4.3	10	4.4	10	2.1	09	2.2	11	4.1	09	3.0	10	2.4	05	1.1	12	1.8	12	4.5	09	3.0
8	13	2.4	12	2.4	11	1.8	12	1.8	10	4.2	11	3.8	10	5.1	07	2.4	10	4.0	10	5.8	10	3.8	10	2.6	10	1.5	12	1.6	10	2.4	08	4.7
9	10	4.2	11	3.2	10	2.3	11	4.2	08	5.4	10	4.6	10	7.0	10	5.7	09	4.6	11	6.6	09	4.7	10	3.9	13	1.3	12	3.1	11	3.9	09	5.8
10	09	5.1	10	3.8	11	3.4	13	4.2	10	6.1	10	5.2	09	7.3	09	6.0	08	6.6	10	7.1	08	5.4	08	4.5	13	0.9	11	3.7	08	4.1	08	5.3
11	11	5.7	10	4.5	09	2.8	13	4.6	09	6.1	10	5.7	11	7.0	10	4.5	08	5.8	10	6.5	11	6.2	04	4.4	r03	1.6	10	3.5	10	6.4	08	5.3
Noon	11	4.8	09	4.8	11	3.6	11	4.4	09	5.7	10	5.4	09	5.6	08	3.9	10	5.7	10	7.1	09	5.7	08	4.6	31	1.2	12	3.5	08	6.4	08	4.8
13	11	5.4	10	4.3	10	3.9	10	4.0	11	5.8	08	5.3	08	7.8	08	5.2	09	7.2	08	7.1	09	5.4	11	4.4	r22	1.6	11	3.2	10	5.0	08	4.3
14	12	5.6	12	4.7	12	4.3	13	4.7	09	5.9	09	4.2	08	6.8	09	6.3	10	6.8	08	7.0	08	5.2	07	4.6	24	1.7	16	2.2	10	5.0	09	4.8
15	11	5.8	10	4.6	09	4.4	13	5.1	12	6.1	08	6.0	09	6.6	09	4.0	11	7.4	09	6.5	08	4.8	06	5.4	24	1.7	12	3.4	09	5.9	10	5.5
16	10	4.5	11	4.9	11	4.3	13	4.8	09	6.0	09	6.0	10	6.2	11	5.2	09	6.9	09	5.8	09	4.8	06	4.2	r11	1.3	11	6.7	10	4.9	14	4.0
17	12	5.0	13	4.2	11	3.9	13	5.2	13	6.0	10	5.0	10	6.7	08	4.0	10	5.8	10	4.3	08	4.6	07	3.2	11	1.1	11	3.9	11	5.8	09	4.7
18	10	3.6	12	2.5	12	2.0	13	3.6	11	3.8	11	3.5	09	5.3	11	3.4	10	5.0	09	4.8	09	3.8	09	3.0	12	1.4	12	2.6	11	6.6	09	4.4
19	10	1.8	12	1.6	11	2.2	14	4.0	11	2.7	11	2.5	10	2.5	10	2.9	11	3.7	08	4.4	09	2.9	09	2.0	13	1.7	12	1.4	11	4.2	10	3.9
20	10	2.6	12	1.7	12	3.0	13	3.4	11	2.2	11	2.2	10	2.2	12	3.1	11	3.4	09	3.3	09	2.3	09	1.4	09	1.7	12	1.8	11	5.6	10	3.6
21	10	3.6	12	1.2	12	2.7	13	3.1	11	2.9	11	2.2	09	3.5	11	2.3	10	3.4	08	3.7	09	1.9	09	2.3	08	3.2	11	1.3	11	3.7	10	3.0
22	10	3.2	12	0.8	12	2.7	13	2.1	11	[illegible]	[illegible]	2.2	11	2.5	11	3.1	10	3.1	11	3.8	09	2.5	09	1.6	09	2.6	11	2.6	11	4.2	09	2.8
23	11	3.2	12	0.7	12	2.3	12	2.3	11	2.0	12	3.1	10	1.4	12	3.5	10	3.0	12	4.0	09	2.4	09	1.0	09	1.7	11	1.8	11	3.9	09	2.9

Hour \ Day	17		18		19		* 20		21		22		23		* 24		* 25		* 26		* 27		28		29		30				Mean Velocity
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.			
Mid-night	09	3.1	08	2.5	07	1.8	12	1.6	15	1.1	10	1.9	11	2.8	11	0.8	12	2.1	11	1.4	11	2.2	12	2.6	12	3.0	10	2.1			2.2
1	11	2.9	08	2.2	07	2.3	12	1.8	15	1.6	11	1.8	11	2.3	11	2.0	12	1.9	11	2.0	12	2.0	12	1.8	12	2.3	10	1.9			2.3
2	08	1.9	08	216	07	1.9	12	1.4	15	1.5	11	2.3	11	1.5	11	1.9	12	1.6	11	1.3	12	2.8	12	1.8	10	1.9	11	2.9			2.2
3	09	2.4	08	3.3	07	2.0	12	1.8	15	1.6	11	2.3	11	2.0	11	1.6	12	2.3	11	1.4	12	2.1	12	1.8	12	4.0	12	2.7			2.3
4	09	2.7	08	1.5	07	1.8	12	1.5	15	1.6	11	2.4	11	2.1	11	1.9	12	2.1	11	1.6	12	1.5	12	1.8	12	4.5	11	2.8			2.1
5	09	2.7	08	4.1	10	1.5	12	1.8	15	1.1	11	2.0	12	1.2	11	2.1	12	1.8	12	1.7	12	2.2	12	1.7	12	3.1	11	2.8			2.2
6	09	1.8	08	2.4	10	2.6	12	1.6	12	1.9	11	1.9	12	1.6	11	2.2	12	2.0	12	1.5	11	2.5	12	2.0	11	3.0	11	2.5			2.2
7	09	1.6	08	3.1	11	2.5	11	1.5	08	1.1	11	2.2	18	1.8	11	2.0	12	1.5	12	1.0	11	1.9	12	1.5	11	4.7	11	3.4			2.4
8	09	2.3	07	3.8	07	4.1	11	1.6	10	1.6	10	3.6	12	2.4	10	3.3	12	0.7	12	0.8	11	3.4	12	2.8	12	5.8	09	4.2			3.0
9	08	4.1	07	4.4	07	4.0	06	3.5	10	3.1	09	3.5	09	3.3	08	3.2	12	0.9	11	0.8	10	3.5	09	4.4	11	6.0	08	4.3			4.0
10	05	5.9	07	2.4	06	3.9	07	2.1	09	4.0	10	4.7	10	3.9	09	3.5	d30	1.9	13	1.5	10	3.5	09	4.3	10	6.2	09	4.4			4.4
11	08	2.8	08	4.1	06	4.1	08	2.4	09	4.3	09	4.3	09	3.9	07	3.0	30	2.3	d29	2.6	11	4.0	10	4.1	10	6.5	08	5.1			4.5
Noon	07	5.2	06	3.9	06	3.8	07	2.9	09	4.5	10	4.3	10	4.0	d21	2.9	26	2.6	25	2.6	10	2.5	08	4.5	09	6.9	10	4.9			4.4
13	07	5.3	04	4.4	05	4.4	05	3.3	09	4.7	10	4.4	09	4.0	22	2.3	32	2.8	25	2.4	d24	2.1	10	4.4	10	6.5	09	4.6			4.5
14	08	5.7	06	4.4	04	4.1	12	2.2	12	4.8	10	4.9	08	4.1	18	1.8	25	2.6	27	1.7	23	2.6	10	4.4	10	5.9	09	5.0			4.5
15	08	5.2	07	2.8	04	4.1	18	1.2	12	5.0	10	4.0	11	3.9	r08	2.7	24	2.0	02	1.8	21	1.1	10	4.8	11	6.1	11	4.9			4.4
16	08	5.2	06	5.0	06	3.1	18	0.5	10	5.1	10	4.7	09	4.5	06	3.0	21	3.0	02	1.0	21	2.5	12	4.4	12	5.6	10	4.9			4.4
17	08	5.1	06	4.5	03	2.9	18	0.5	11	4.5	11	3.5	10	4.4	07	3.1	24	3.1	02	1.1	23	1.5	11	4.5	10	5.5	10	4.0			4.1
18	08	4.1	07	2.9	04	1.4	18	1.0	10	3.8	11	2.6	11	3.4	06	2.1	r11	2.1	d10	1.6	r14	2.9	10	3.0	09	4.8	11	3.0			3.3
19	08	3.9	07	1.9	04	0.8	18	1.1	11	4.2	11	2.1	10	2.4	06	1.6	11	1.6	10	1.8	13	3.1	11	2.1	10	2.4	11	2.4			2.5
20	08	2.4	08	1.8	07	1.3	16	1.6	10	2.9	11	1.5	10	2.2	08	1.6	11	1.5	11	1.8	13	2.9	13	2.8	10	2.0	11	2.5			2.4
21	09	3.0	08	2.6	10	3.0	15	2.4	10	2.9	11	2.2	11	2.1	08	1.7	11	1.4	11	1.6	12	2.4	12	2.4	10	2.2	11	2.1			2.5
22	08	2.8	08	1.9	12	2.0	15	1.9	09	2.2	11	3.1	11	2.1	08	1.3	11	1.8	11	2.2	11	1.6	11	2.7	10	2.9	11	2.1			2.5
23	08	2.4	08	1.8	12	2.1	15	1.3	09	2.1	11	2.0	11	3.0	10	2.2	11	1.8	11	1.6	11	2.0	12	2.1	10	2.3	11	2.3			2.3

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS) SEPTEMBER, 1942

Hour	Force (0-12) 8 or above	4 to 7	0 to 3	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
3	-	-	30	-	-	1	-	5	1	21	-	2	-	-	-	-	-	-	-
9	-	5	25	-	-	-	1	12	8	9	-	-	-	-	-	-	-	-	-
15	-	9	21	-	1	1	1	10	4	9	-	-	1	1	-	2	-	-	-
21	-	-	30	-	-	-	-	8	7	14	1	-	-	-	-	-	-	-	-
Total	-	-	-	-	1	2	2	35	20	53	1	2	1	1	-	2	-	-	-

TABLE XIVA - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR SEPTEMBER, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	..	0.3	..	..	..	..	..	..	..	0.2	..	..	..	..	0.3	0.7	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	0.1	1.2	0.1	..	0.3	0.1	..	..	0.6	1.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	0.2	..	..	..	..	..	0.9	0.3	0.3	..	..	..	..	..	0.5	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..
4	1.0	..	0.3	..	..	..	..	..	1.1	0.3	..	..	..	..	0.1	0.2	0.1	..	..	..	0.1	..	..	..	..	..	..	..	..	..
5	..	0.4	..	..	..	..	..	..	1.5	..	0.1	..	..	..	0.1	..	..	..	..	..	0.4	..	..	..	..	..	..	..	..	..
6	..	0.6	..	..	0.1	..	..	..	0.3	..	0.6	..	..	..	0.6	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	0.3
7	..	..	1.1	..	..	..	..	..	0.4	..	..	0.2	0.1	0.2	0.3	..	..	..	..	..	..	..	0.2	0.2	..	..	..	0.1	..	0.1
8	..	0.3	1.5	..	..	..	..	0.2	0.6	..	..	..	..	..	0.4	..	0.1	..	..	..	..	..	..	..	0.1	..	..	..	..	..
9	..	..	0.2	..	0.2	..	..	..	0.9	0.5	..	..	..	..	0.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	0.1	..	..	..	0.3	..	..	..	..	..	0.6	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	0.3	..	..	..	1.4	..	1.8	0.2	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	1.0	..	..	..	1.9	..	1.5	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	0.3	..	..	..	3.5	..	1.0	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	2.0	..	1.5	0.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	0.2	..	..	..	..	..	..	..	1.2	..	1.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	2.9	..	1.5	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..
17	..	..	..	..	..	0.7	..	..	..	0.7	..	..	0.5	..	1.5	..	..	..	..	..	..	..	..	..	0.5	..	..	..	..	..
18	..	..	..	..	..	1.3	..	0.1	0.2	0.6	..	..	0.1	..	1.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	0.3	..	0.2	..	0.2	..	..	0.1	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	0.2	..	..	..	0.3	..	..	..	..	2.0	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	0.1	..	0.3	..	..	..	0.6	1.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	0.1	0.2	..	0.3	..	..	..	0.2	1.2	1.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	2.5	..	..	0.2	..	..	..	..	0.7	1.7	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	0.5	..	..	..	..	0.2	0.2	..	0.2	0.1	..	..	..	0.2	1.4	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE XIVB - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY, FOR SEPTEMBER, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	..	0.5	..	..	..	..	0.4	0.1	0.2	..	0.4	..	..	..	..	1.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	0.3	..	0.1	0.2	..	2.1	..	..	0.6	2.0	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	1.0	..	..	..	..	..	..	..	..	..	..	0.9	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	..	0.1	..	..	..	..	..	..	..	0.3	..	..	0.3	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	0.1	..	..	..	..	..	..	0.3	..	..	..	0.6	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	0.6	0.1	..	..	..	..	..	..	0.1	..	..	..	3.3	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	0.1	0.1	..	..	..	..	..	..	..	..	1.2	..	0.1	..	..	..	..	..	..	..	0.7	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	0.1	0.7	..	..	..	0.3	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	0.3	..	..	..	0.2	..	..	..	0.3	..	..	..	0.3	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	0.5	..	0.9	..	0.4	..	..	..	..	..	0.5	..	..	..	..	..	..	..	..	..
11	..	..	0.6	..	..	..	..	0.1	0.9	..	0.1	..	0.4	..	0.1	0.3	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	1.0	0.1	..	..	..	1.6	..	0.5	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	0.4	..	..	..	..	4.0	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	0.5	..	1.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	0.9	..	..	..	..	4.9	..	1.0	..	..	..	..	2.0	..	..	..	..	..	0.1	..	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	3.9	..	..	..	..	..	..	0.5	..	..	..	..	..	0.2	..	..	..	..
17	..	..	..	..	..	..	..	0.3	..	0.6	..	..	1.5	..	0.2	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	..	..	..	..	..	..	0.1	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	0.1	..	..	0.1	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	2.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	..	..	0.7	..	..	..	..	0.6	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	0.5	1.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	0.1	..	0.3	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	..	..	..	..	..	0.5	0.8	..	..	..	..	..	..	0.1	0.4	0.9	1.1	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE XV - TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEM INDICATED ON THE CHART FOR SEPTEMBER, 1942

RIVER SYSTEM	STATIONS	Approximate Altitude in feet	Total Fall Inches	Total Fall Millimetres	Normal in Inches	Number of days
1	Mare Seche	20	1.70	43.2	1.03	7
	St Antoine	50	1.84	46.7	1.17	9
	Bel Mont	50	1.85	47.0	1.15	8
	Poudre d'Or	20	2.13	54.1	1.24	9
	Mon Loisir S.E.	300	3.23	82.0	1.85	14
	Forbach	300	1.66	42.2	1.20	8
	Couroupa	...	1.65	41.8	1.26	7
	Labourdonnais	290	1.81	46.0	1.61	9
	Mapou Water Office	...	...	...	...	..
	Beau Sejour	300	2.10	53.3	2.20	11
	Mont Piton	650	2.04	51.8	2.27	9
	Mon Choix	700	1.84	46.7	1.84	7
	Antoinette	640	3.15	80.0	2.19	15
	Mon Songe	620	2.17	55.1	2.49	6
	Botanical Gardens	325	2.46	62.5	1.78	18
	The Observatory	179	2.57	65.2	1.40	19
	Solitude	175	...	...	0.81	..
	St Andre Cour	90	...	...	1.11	..
	La Nicoliere	...	3.88	98.5	3.28	18
	California	...	4.52	114.8	...	12
	Australia	...	3.37	85.6	...	13
2 & 3	Union Regnard Flacq S.E.	600	1.87	47.5	2.63	10
	Constance la Gaiete	100	2.34	59.4	1.69	13
	Rich Fund	600	2.22	56.4	2.67	14
	La Joffrette	...	2.40	61.0	...	8
	Belle Vue Allendy	...	2.16	54.9	2.69	15
4	Sans Souci	900	5.31	134.9	5.83	17
	Beau Champ G. [illegible] E.					
	Olivia	400	3.32	84.3	3.15	15
	Trois Ilots	...	...	...	...	..
	Belle Rive	400	4.20	106.7	4.13	17
	Sebastopol	700	...	...	...	..
	Bonne Veine	400	6.09	154.7	5.26	21
5	Rose Belle	850	5.62	14[illegible].7	5.98	20
	New Grove	650	6.34	161.0	5.46	17
	Mon Tresor	...	7.37	187.2	...	12
	Mon Desert Carie	75	2.30	58.4	1.53	9
	Ferrey	20	2.65	67.3	2.60	10
	Sauveterre	...	2.85	72.4	...	..
	Tivoli	1300	5.96	151.4	5.81	19
	La Flora	1050	5.76	146.3	5.38	18
	Riche Bois Britannia	650	4.14	105.2	3.25	10
6	Britannia Estate	700	5.63	132.2	4.03	18
	Savannah Mill	200	2.85	72.4	1.96	12
	St Aubin	300	2.17	55.1	2.70	13
	St Avold	900	5.90	149.9	4.61	20
	Colmar	400	4.81	122.2	3.03	14
	Union S.E.	...	3.69	93.7	2.23	10
	Fontenelle	320	2.90	73.7	2.95	10
	Choisy	200	1.88	46.5	2.60	7
	Beaubois	...	4.83	122.7	...	15
	Bel Air	...	...	...	1.88	..
	St Felix	...	...	...	...	..
7, 8, 9 & 10	Bel Ombre	40	3.33	84.6	1.93	11
	Beau Champ B. du Cap	70	3.03	77.0	2.00	11
	Frederica	...	3.19	81.0	2.[illegible]6	12
	Pierrefonds	...	1.10	27.9	1.01	12
	Ste Marie	...	2.99	75.9	...	12
	Hussonia	...	...	...	...	..
11	Curepipe Gardens	1840	5.43	135.5	5.60	17
	Mare aux Vacoas G.End	1850	5.89	197.9	7.14	22
	Mare aux Vacoas (Arnaud)	1830	7.79	197.9	7.14	22
	La Marie Filter Beds	1700	4.51	114.6	4.10	19
	Sophie	...	...	...	...	..
	Reunion	1420	3.37	85.6	3.53	10
	Aerological Station	1393	3.09	7[illegible].6	3.40	24
	Phoenix	...	3.64	9[illegible].5	...	5
	Quatre Bornes	...	1.64	41.7	...	7
12	Quatre Bornes Board	1090	1.76	44.7	1.12	3
	Le Reduit Dep. of Agric.	1000	2.51	63.9	1.50	25
	Alma	1460	4.95	125.7	4.73	14
	Bagatelle	1250	[illegible]	101.9	2.69	[illegible]
	Highlands	1200	2.56	65.0	3.09	[illegible]
	Trianon	[illegible]50	1.65	41.9	1.70	7
	Val Ory	1100			1.74	..
	Bassin	...	0.97	24.6	1.36	4
	Hermitage	1450	3.16	80.3	4.62	8
	Ebene	...	2.21	55.9	...	12
	Bega	...	1.89	48.0	...	13
	Mon Reve	...	3.25	82.6	...	[illegible]3
	Plaisance	...	2.62	66.5	...	11
	Minissy	1150	3.77	95.8	2.05	13
	Plaisance	...	2.[illegible]	66.5	...	11
	La Ferme	850	0.31	7.9	0.75	4
[illegible]	[illegible]	...	[illegible]	[illegible]	...	[illegible]
	Richelieu Tobacco Res. Stn		0.52	13.2		10

TABLE XVI - PILOT BALLOON OBSERVATIONS FOR THE MONTH OF SEPTEMBER, 1942

Date	Time	Surface		250 metres		500 metres		750 metres		1,000 metres		1,500 metres		2,000 metres		2,500 metres		3,000 metres		3,500 metres		4,000 metres	
		Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity
		o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.
1	09.21	113	5.2	100	4.2	108	7.6	103	7.2	103	7.9	101	8.8	094	10.9								
2	09.23	106	6.4	103	4.4	105	4.6	104	5.4	088	2.4	080	4.9										
3	09.20	140	3.5	155	2.9	127	2.0	124	3.6	111	5.6	100	5.7	122	8.8								
4	09.31	201	1.7	143	2.3	149	3.4	143	5.9	134	6.1	124	10.8	128	10.7								
5	09.13	110	5.3	100	6.9	101	10.7	100	12.0	108	6.6	118	10.7	125	8.7								
6	09.36	134	4.1	124	5.9	106	3.7	091	11.2	073	6.6	031	5.0	048	6.0	089	8.0						
7	09.40	083	14.2	109	7.4	107	7.8	105	6.7	108	10.2	119	6.2	111	5.7	339	3.7						
8	09.44	112	6.2	101	4.3	099	5.6	094	5.5	096	11.3	086	10.1	072	8.2								
9	09.42	097	5.3	103	11.1	097	13.4	097	15.1														
10	10.00	098	10.9	102	15.2	099	21.8	100	26.5	100	19.3	097	15.1	092	11.0								
11	08.50	106	6.3	079	5.2	077	9.0	083	9.4	079	12.1	078	13.2										
12	09.31	059	9.9	068	6.6	067	8.0	076	12.5	084	17.7	072	11.1	063	13.8	061	10.7						
13	09.36	104	0.4	153	0.9	051	1.3	016	2.9	084	3.9												
14	09.40	241	1.8	155	3.3	138	4.4	129	4.1	127	3.5												
15	09.02	210	11.6	149	2.1	095	3.6	101	6.0	106	8.4	115	6.6	110	9.8								
16	09.00	117	5.8	092	6.8	078	12.9	083	14.9	082	13.5	088	12.8	089	12.3	062	6.8						
17	09.37	104	5.9	080	8.9	073	10.9	070	17.8	058	10.8	038	9.7										
18	09.00	058	11.5	066	14.5	078	9.5	080	12.4	063	7.1	299	1.0	096	1.0	308	4.9	348	6.6	005	6.5	308	7.6
19	08.59	058	8.9	064	6.4	076	6.5	078	4.9	095	3.5	319	1.0	204	1.7	230	6.8	234	9.2				
20	09.11	073	4.2	064	4.2	054	8.1	056	6.8	158	8.2												
21	09.36	123	8.5	126	13.2	127	20.1	141	1.3	108	4.3	125	11.1	120	20.0								
22	09.10	107	3.4	108	2.6	107	3.8	106	5.1	126	5.8	141	3.2	078	3.0	095	4.5	120	5.0				
23	09.40	084	9.2	088	15.0	091	12.4	092	23.7	096	1.0	086	5.6	086	14.2	107	6.3						
24	08.38	066	4.1	062	5.9	075	7.2	081	7.5	063	5.3	057	3.0										
25	09.07	300	4.0	294	1.9	270	0.9	141	2.1	162	4.0	169	3.7										
26	09.49	302	4.7	313	3.5	287	1.6	135	0.6	130	4.0	146	7.4										
27	09.17	121	3.9	135	3.1	137	2.7	077	1.7	103	5.7												
28	08.38	285	2.8	143	1.0	106	2.9	176	1.3	184	2.9	164	7.5	153	7.1	172	5.5	215	7.3	213	7.8		
29	09.02	123	5.0	113	9.8	106	13.8	114	12.1	115	9.9												
30	09.09	106	13.2	096	5.5	095	8.8	093	10.4	095	10.1	088	7.2										

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NEW SERIES (MONTHLY) VOL. XXVIII PART 10

MAURITIUS
ROYAL ALFRED OBSERVATORY

LATITUDE 20° 5' 39"S., - LONGITUDE 3h 50m 12.6"E

RESULTS
OF
MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

OCTOBER, 1942

N.R. Mc CURDY, B.Sc. F.R. MET. SOC.

DIRECTOR

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DIRECTOR OF METEOROLOGICAL SERVICE, MAURITIUS

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TABLE I - RESULTS OF MAGNETICAL OBSERVATIONS MADE DURING THE MONTH OF OCTOBER, 1942

Month and Day 1942	Mean Declination (West)	Mean Horizontal Force (C.G.S. Units)	Mean Vertical Force (C.G.S. Units)	Daily Range + Declination	Daily Range + Horizontal Force (Unit ')	Daily Range + Vertical Force (Unit ')
	14° 23.0'	.22436	.29973	6.7	24	23
	23.5	422	973	9.5	147	46
	22.7	400	986	5.8	54	21
4	23.8	399	982	6.2	51	28
5	22.9	411	985	5.5	53	21
6	23.3	423	986	6.0	28	24
7	22.9	422	984	55	54	26
8	23.3	421	985	6.7	40	22
9	23.3	430	983	6.2	45	31
10	23.4	448	976	8.7	22	42
11	23.1	443	979	6.5	21	27
12	23.3	427	983	7.7	54	23
13	23.3	424	984	9.5	38	28
14	23.4	423	988	6.0	39	14
15	...	...	...	...	..	..
16	23.7	425	985	6.0	39	22
17	23.5	432	984	4.7	31	11
18	23.3	427	984	4.3	37	15
19	23.0	420	990	6.0	61	20
20	23.8	421	989	3.3	49	12
21	23.6	427	986	3.6	34	16
22	23.4	434	984	4.8	38	18
23	23.3	439	982	6.0	40	22
24	22.9	448	983	6.3	36	12
25	23.1	438	...	5.7	35	..
26	23.4	433	...	8.0	18	..
27	...	...	...	...	..	..
28	24.1	413	986	12.0	218	53
29	23.7	367	998	14.7	110	33
30	22.9	397	992	9.0	72	28
31	22.8	408	991	7.5	67	23
Mean	14° 23.30'	.22423	.29984	6.84	53.4	24.5

Description of the Principal Magnetic Disturbances

Horizontal Force : 2nd sudden commencement at 6h 45m of a moderately disturbed period lasting until 6th. The second half of 28th is the most disturbed with large wave-form fluctuations. Disturbance starts with increasing force until 11h 15m. when decrease starts. Very rapid increase (67) from 2nd. 23h. 35m to 3rd 1. 15m.

3rd, 4th and 5th are very moderately disturbed specially during second half of the day. Large posutive wave on 4th 20h to 21h 15m.

10th Very slightly disturbed between 9h and 24h. Mainly small pulsations.

11th slightly disturbed in parts.

12th moderately disturbed chiefly during second half. Large waves between 14h and 17h.

13th slightly disturbed on the whole with one large positive wave between 20h. 30m. and 22h. 30m.

14th, 15th and 16th slightly disturbed at times.

18th, 19th and 20th very moderately disturbed at times, chiefly between 18 h and 24h.

25th slightly disturbed.

28th important disturbance with gradual beginning from about 7h. Disturbance lasts throughout 29th and 30th and gradually subsides on 31st. Very large fluctuations during second half of 28th. maximum range (217).

29th large fluctuations of the order 50 to 100 at times. Mainly irregular features.

30th only very moderately disturbed. Minor fluctuations.

31st moderately disturbed during second half

H .37441 : Mean Dip = 53° 12.62' : X .21720 : Y = -.05572

The daily range is the difference between the greatest and least hourly values

TABLE II - RESULTS OF ABSOLUTE DETERMINATIONS OF THE MAGNETIC ELEMENTS DURING THE MONTH OF OCTOBER, 1942

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d. h. m.	° '	d. h. m.		d. h. m.	° '	
9.14.21	14.20.0	1.11.25	.22454	9.14.33	53.10.33	.29966
30.14.12	14.16.90	12.10.03	.22431	30.14.23	53.13.87	.29981
23.14.03	14.19.90	7. 9.33	.22434	23.14.11	53.09.75	.29972
		15. 9.26	.22391			
		19.11.12	.22420			
		22. 9.38	.22445			
		26.11.29	.22442			

TABLE III - MAGNETIC DECLINATION (WEST) AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

OCTOBER, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
								13°									
Midnight	[illegible]	23.3	25.0	25.3	24.5	24.0	24.0	24.5	24.7	23.3	22.5	23.0	23.5	23.7		[illegible]	Midnight
1	[illegible]	23.3	24.0	24.0	24.7	24.5	24.3	24.7	24.3	23.5	22.0	24.5	23.5	23.0		[illegible]	1
2	23.0	23.0	24.3	24.5	24.5	24.0	23.5	24.3	23.5	23.5	22.5	24.0	23.0	21.0		[illegible]	2
3	23.0	22.5	23.5	22.5	21.7	23.5	24.0	24.0	23.7	24.0	23.7	24.7	20.5	22.0		23.5	3
4	23.0	22.3	23.0	23.5	22.0	22.0	23.7	24.0	24.0	24.0	24.0	25.3	22.0	23.7		24.0	4
5	23.5	22.7	20.0	23.0	23.3	23.0	23.0	24.0	24.0	24.0	24.3	25.7	23.0	24.0		[illegible]	5
6	23.5	23.5	21.0	23.0	[illegible]	22.7	22.0	23.7	23.0	23.5	24.0	25.0	21.5	25.0	[illegible]	[illegible]	6
7	[illegible]	25.0	21.5	23.3	23.0	23.5	22.0	24.5	22.7	24.0	24.0	24.3	23.0	25.0	[illegible]	[illegible]	7
8	25.7	26.3	19.7	25.0	22.7	24.3	24.0	24.7	24.3	25.5	25.0	25.0	25.0	25.0	[illegible]	[illegible]	8
9	26.0	27.5	22.0	26.0	23.5	26.0	24.3	25.7	25.5	27.0	26.0	25.7	26.0	25.5	[illegible]	[illegible]	9
10	26.2	27.3	23.0	27.0	24.7	26.0	24.3	25.5	26.2	28.0	25.3	25.7	26.0	25.0	[illegible]	[illegible]	10
11	24.7	26.5	23.0	27.0	25.0	24.5	[illegible]	[illegible]	25.5	28.0	24.3	23.5	25.0	25.0	26.0	[illegible]	11
Noon	23.3	25.0	23.3	25.5	23.5	23.5	[illegible]	[illegible]	23.5	25.0	23.0	21.7	23.5	24.0	24.0	23.5	Noon
13	22.0	21.0	23.0	23.5	21.7	22.0	[illegible]	[illegible]	[illegible]	[illegible]	19.5	20.0	22.0	22.0	22.0	23.7	13
14	20.0	19.0	22.0	21.5	20.0	20.0	[illegible]	[illegible]	[illegible]	[illegible]	19.5	18.0	19.0	19.7	[illegible]	21.0	14
15	19.7	18.0	20.7	21.0	19.5	21.0	[illegible]	[illegible]	[illegible]	[illegible]	20.0	18.0	19.7	19.5	[illegible]	20.0	15
16	19.5	18.5	20.5	20.7	20.0	22.0	[illegible]	[illegible]	21.0	20.0	21.7	19.0	21.0	20.0	[illegible]	21.0	16
17	20.5	20.0	22.0	22.0	21.5	22.7	[illegible]	[illegible]	22.5	21.5	22.7	22.3	23.0	23.0	[illegible]	23.5	17
18	22.0	22.0	22.5	22.7	23.0	23.0	23.0	23.0	22.7	22.7	23.0	23.0	23.0	24.0	[illegible]	23.5	18
19	22.7	23.0	24.0	24.5	22.5	23.3	23.5	23.0	23.0	23.5	24.5	25.5	25.5	24.7	24.7	24.0	19
20	23.0	25.0	24.0	24.3	23.0	23.5	23.7	23.0	23.3	22.5	24.0	24.7	24.5	25.0	25.5	25.0	20
21	23.0	25.0	25.5	23.7	23.5	23.3	23.7	23.3	23.3	22.7	23.0	25.0	28.5	24.3	25.5	25.5	21
22	23.0	26.0	24.7	24.3	23.3	23.3	24.0	24.0	23.0	23.0	22.7	23.0	24.0	24.0	26.0	26.0	22
23	23.0	26.3	24.0	25.0	23.7	23.5	24.5	25.0	23.3	22.7	22.5	23.5	24.3	25.0	24.3	[illegible]	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
									13°								
Midnight	24.0	24.5	23.5	24.0	24.0	23.7	23.5	23.3	23.5	23.7		23.5	29.0	23.5	24.3	24.0	Midnight
1	24.0	24.0	24.5	24.7	24.2	24.3	23.5	23.7	23.5	23.5		23.7	27.7	24.0	23.0	[illegible]	1
2	24.0	23.5	23.7	24.0	24.0	24.0	23.7	24.3	24.0	23.5		23.5	26.0	22.0	[illegible]	23.5	2
3	24.2	23.7	25.0	24.0	24.2	24.3	24.0	24.5	24.3	24.0		23.7	27.5	24.0	[illegible]	23.7	3
4	23.5	23.7	22.0	24.0	24.5	24.5	24.7	25.0	24.3	24.5		24.3	27.0	25.3	[illegible]	23.9	4
5	23.7	23.5	22.0	23.0	24.3	24.3	24.7	25.3	[illegible]	24.7		24.5	26.5	26.3	25.0	23.9	5
6	21.0	22.0	21.5	23.5	24.3	24.5	24.7	25.0	24.7	24.0	24.5	24.5	28.0	26.0	24.0	23.7	6
7	23.5	22.5	20.0	23.7	24.7	25.5	25.3	24.5	25.0	26.0	26.0	26.0	29.7	25.5	25.5	24.2	7
8	23.7	23.0	21.7	25.0	25.3	25.3	26.0	23.3	24.3	27.0	27.0	26.5	28.0	26.0	24.0	24.7	8
9	23.5	24.0	22.3	25.0	24.5	25.0	23.0	26.0	25.0	26.0	26.3	27.0	26.5	24.0	23.5	25.1	9
10	25.0	25.0	22.5	25.0	23.7	24.0	25.0	23.0	23.3	25.5	26.0	25.5	23.0	22.0	22.0	24.8	10
11	25.5	25.0	23.5	24.5	23.0	22.5	23.0	22.0	22.0	23.7	24.0	24.3	24.3	19.0	20.0	23.9	11
Noon	25.7	23.3	23.0	23.7	22.0	21.0	21.0	20.7	20.0	22.0	21.5	24.0	15.0	18.5	21.0	22.5	Noon
13	24.5	22.0	22.0	22.3	21.7	20.7	20.0	19.7	20.0	20.0	20.0	22.0	17.0	17.5	19.5	21.1	13
14	22.5	21.0	20.5	21.5	22.0	21.0	20.0	19.0	19.3	19.0	18.0	20.0	16.3	17.3	18.0	19.8	14
15	21.5	20.7	20.7	21.7	22.0	21.7	20.3	20.0	20.0	19.5	18.3	18.3	17.7	18.0	18.5	19.9	15
16	21.3	21.3	21.5	22.5	22.0	22.7	21.0	21.3	21.5	21.0	19.0	18.0	20.0	20.0	20.0	20.7	16
17	21.7	22.0	23.5	23.5	23.0	23.0	23.0	22.0	23.0	22.5	21.0	20.0	23.0	23.0	22.3	[illegible]	17
18	22.5	23.3	23.3	24.0	23.5	23.3	23.5	23.3	23.5	22.7	23.0	21.0	23.5	23.5	24.5	23.1	18
19	23.3	23.7	26.0	25.0	23.5	23.5	23.3	23.3	24.3	24.0	23.7	25.0	24.3	24.0	23.7	23.9	19
20	24.0	23.5	24.0	25.0	25.0	23.3	23.5	23.0	24.0	23.5	24.3	26.0	24.0	24.7	24.5	24.0	20
21	24.0	25.5	26.0	24.5	24.0	23.5	23.7	23.0	23.5	23.7	24.2	27.0	27.0	25.0	25.0	24.4	21
22	24.0	25.0	24.0	23.7	24.0	23.3	23.5	23.0	23.5	23.5	23.7	27.0	23.0	24.0	25.0	24.0	22
23	24.0	25.0	24.5	23.5	24.0	23.5	23.3	22.3	23.7	23.5	23.5	30.0	23.0	24.7	23.7	24.1	23

TABLE IV. - MAGNETIC HORIZONTAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

OCTOBER, 1942

.22000 + (C.G.S. UNIT)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	427	433	400	395	398	411	420	409	409	433	439	425	420	410		425	Midnight
1	427	440	401	400	400	418	415	409	415	435	441	435	417	420		420	1
2	430	442	399	400	410	420	425	412	421	437	441	433	422	449		447	2
3	435	445	402	413	427	415	425	415	421	437	441	438	445	435		440	3
4	436	447	402	415	417	421	427	417	420	439	440	439	442	427		433	4
5	436	441	413	412	408	421	429	422	421	440	440	445	427	431		435	5
6	437	441	410	407	411	418	424	421	423	442	435	439	431	425	420	433	6
7	436	450	405	411	412	419	427	420	422	443	437	440	437	435	420	435	7
8	435	460	402	413	416	422	431	423	422	450	439	443	430	434	419	431	8
9	440	470	405	392	427	425	437	430	423	455	443	438	431	428	419	425	9
10	448	484	421	405	427	427	434	438	431	452	447	445	432	430	430	428	10
11	451	487	418	397	435	434	443	445	447	473	450	447	435	431	431	431	11
Noon	451	480	421	400	440	437	449	447	454	475	449	455	439	430	430	427	Noon
13	443	450	425	410	433	439	447	440	452	458	453	445	413	430	425	423	13
14	437	425	416	408	420	436	440	434	446	455	452	428	417	423	418	415	14
15	431	440	395	397	400	427	423	420	439	447	451	400	425	415	424	412	15
16	427	417	385	400	388	422	415	410	435	454	443	398	421	410	417	408	16
17	429	360	367	392	390	419	400	408	431	452	444	395	415	390	405	410	17
18	434	353	370	383	392	418	395	410	432	450	443	402	413	400	396	413	18
19	434	340	375	378	387	417	403	415	431	445	435	402	410	415	397	418	19
20	437	362	381	365	392	419	407	420	430	450	434	398	420	413	410	417	20
21	436	370	380	400	408	420	405	415	431	450	437	400	425	413	410	423	21
22	435	351	395	397	407	421	403	407	432	446	445	433	417	418	425	420	22
23	433	360	410	391	411	422	407	410	430	441	452	420	407	427	440	435	23

.22000 + (C.G.S. UNIT)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
Midnight	431	425	422	420	415	423	431	433	440	427		439	301	412	407	416	Midnight
1	435	437	428	427	416	421	431	435	441	429		437	335	415	390	420	1
2	433	432	435	429	418	422	434	438	443	427		370	413	423	423	426	2
3	427	425	435	425	422	425	434	441	443	435		443	365	408	427	427	3
4	430	426	442	427	425	426	435	440	447	431		441	403	401	420	428	4
5	432	430	435	432	427	429	437	441	450	431		441	381	397	415	427	5
6	436	425	435	433	429	427	437	444	441	435	450	443	387	395	409	427	6
7	438	435	441	421	432	427	438	447	440	431	440	385	440	395	409	428	7
8	432	433	432	423	431	429	443	452	441	428	437	441	379	399	405	428	8
9	430	438	430	430	432	440	452	458	440	427	430	446	401	380	413	431	9
10	442	441	417	429	433	451	455	460	448	437	430	453	382	402	412	435	10
11	450	440	422	439	439	457	460	462	442	440	428	462	355	423	417	439	11
Noon	443	439	427	439	439	459	465	469	454	445	437	472	378	427	425	443	Noon
13	435	433	433	435	443	453	457	465	455	441	445	475	391	421	437	439	13
14	430	424	425	423	441	447	453	463	455	435	447	465	389	411	430	432	14
15	425	420	405	415	440	439	445	457	450	431	443	463	335	405	397	422	15
16	422	425	393	408	435	430	436	453	436	430	442	452	294	385	373	414	16
17	420	421	380	415	422	427	425	450	427	431	440	415	330	380	370	407	17
18	420	417	390	410	425	429	431	450	425	432	437	364	357	360	390	407	18
19	419	410	395	417	415	429	432	442	420	431	434	335	377	355	400	406	19
20	425	413	391	390	409	427	430	439	420	440	432	367	358	390	387	408	20
21	431	435	415	390	410	428	427	441	423	431	433	300	340	378	390	409	21
22	426	413	439	484	416	429	425	440	422	430	435	257	385	382	407	410	22
23	469	420	420	416	418	429	438	427	431	438	280	400	393	415	415	415	23

TABLE V - MAGNETIC VERTICAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature in the Magnet Chamber)

OCTOBER, 1942

.29000 + (C.G.S. UNIT)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	977	977	992	989	987	986	986	987	988	982	978	984	987	988	*	988	Midnight
1	977	977	986	986	987	985	985	987	982	986	978	983	987	987		987	1
2	977	977	986	988	986	985	985	986	984	981	978	982	984	986		983	2
3	977	977	985	983	984	986	986	984	984	981	978	983	980	984		984	3
4	977	976	984	984	986	986	986	985	986	982	979	983	983	986		984	4
5	977	976	983	985	987	987	986	986	987	982	980	983	984	986		981	5
6	977	977	983	985	985	986	984	986	986	982	980	983	985	986	987	983	6
7	980	980	987	985	984	989	987	988	988	986	982	985	987	986	990	985	7
8	981	980	990	988	986	994	993	992	993	990	988	989	992	987	993	989	8
9	981	980	996	991	987	977	992	993	995	992	989	993	995	992	993	989	9
10	978	977	995	991	989	996	988	990	996	988	988	989	993	994	993	989	10
11	973	969	993	986	987	992	983	983	986	982	984	979	987	995	990	987	11
Noon	967	960	981	978	980	983	979	976	977	970	975	974	979	992	982	984	Noon
13	965	947	975	967	974	978	972	972	968	962	966	972	970	980	977	980	13
14	960	946	976	963	970	973	967	971	965	950	962	970	967	981	974	970	14
15	958	946	982	965	974	978	973	975	968	954	963	977	970	983	975	983	15
16	962	951	986	969	981	982	980	983	974	962	972	977	977	987	979	983	16
17	967	969	988	975	986	984	983	987	979	968	976	986	980	993	983	988	17
18	972	980	989	980	991	986	988	986	981	973	979	987	984	992	986	988	18
19	973	983	987	985	988	986	990	986	983	974	981	988	987	993	987	987	19
20	974	986	983	987	989	986	988	987	985	976	983	990	984	988	988	987	20
21	974	990	989	985	988	985	988	987	984	977	982	991	993	988	986	987	21
22	976	989	988	986	986	984	988	988	984	977	972	985	984	989	989	992	22
23	977	992	985	988	986	984	988	989	983	978	978	981	[illegible]	988	990	984	23

* Gas light failed

.29000 + (C.G.S. UNIT)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day / Hour
Midnight	986	984	984	990	989	987	983	983	983	*	*	988	[illegible]	996	996	990	Midnight
1	986	983	985	990	989	987	983	983	983			981	[illegible]	998	994	990	1
2	986	983	985	989	989	987	983	983	983			979	[illegible]	993	993	985	2
3	986	984	984	989	990	987	984	983	983			979	[illegible]	995	993	984	3
4	985	985	984	999	990	988	985	984	983			979	[illegible]	996	993	985	4
5	986	984	983	989	990	989	986	985	983			980	[illegible]	995	992	985	5
6	984	983	983	990	990	989	986	985	986			981	[illegible]	996	992	985	6
7	984	986	983	990	991	991	989	986	989			984	[illegible]	996	992	987	7
8	988	986	990	991	990	988	990	984	989			987	[illegible]	995	991	989	8
9	987	990	994	993	990	985	989	985	991			987	989	990	985	[illegible]	9
10	987	989	994	991	989	983	986	987	*	992	[illegible]	983	983	987	983	[illegible]	10
11	988	987	995	990	985	979	980	986		986	[illegible]	979	983	980	983	984	11
Noon	980	983	993	986	979	977	994	980		978	970	977	983	974	980	979	Noon
13	985	978	989	984	965	976	968	979		967		971	982	972	982	974	13
14	977	975	976	982	985	973	970	975		967		981	970	977	982	971	14
15	977	[illegible]	989	983	976	974	974	977		974	958	973	994	987	984	975	15
16	978	983	996	985	978	978	978	981		982	966	974	1012	994	[illegible]	[illegible]	16
17	981	[illegible]	999	999	983	984	982	983		984	972	980	1012	1000	[illegible]	988	17
18	982	[illegible]	998	989	983	986	983	983		984	977	1005	997	[illegible]	998	987	18
19	983	986	1003	990	986	987	983	983		984	978	998	1003	999	[illegible]	988	19
20	983	[illegible]	993	[illegible]	994	990	987	983		984	981	996	1000	998	994	987	20
21	984	985	998	993	987	987	984	984		984	981	1010	1016	999	996	992	21
22	984	986	990	991	988	987	986	984		984	982	1015	1003	999	997	992	22
23	985	986	990	989	988	986	984	985		985	981	1023	1003	998	991	995	23

* Gas light failed

TABLE VI - RESULTS OF METEOROLOGICAL OBSERVATIONS MADE AT THE AEROLOGICAL STATION, VACOAS (424.5 metres above mean sea level) DURING THE MONTH OF OCTOBER, 1942

Month and Day 1942	Observations at 10 a.m.									Temperature of the Air							Rainfall		Duration of Bright Sunshine	Percentage of Possible Sunshine
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat. = 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0 - 10)	3h	9h	15h	21h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Casella Pluviograph	Duration		
OCT.	mbs	°C	°C	°C.	%	mbs	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms	mins	hrs	%
1	973.4	22.2	3.8	15.9	68	18.1	85	3.6	6	15.8	21.4	21.0	17.6	24.2	15.7	8.5	...	...	8.8	72
2	973.1	20.7	2.8	16.1	75	18.3	90	5.8	5	16.9	20.2	20.6	16.1	22.9	16.8	6.1	1.0	40	9.9	82
3	973.1	20.4	2.8	15.7	74	17.8	95	4.5	7	13.9	19.3	20.8	16.8	22.7	13.6	9.1	...	...	10.5	86
4	972.2	20.7	3.3	15.2	71	17.3	130	3.1	2	15.7	20.1	21.1	16.7	23.0	15.4	9.6	...	...	11.1	91
5	972.5	17.2	0.6	16.2	94	18.4	90	7.6	8	16.1	16.8	20.6	17.2	22.1	15.2	6.9	5.9	110	6.1	50
6	973.1	19.2	2.2	15.5	79	17.6	90	8.9	8	15.9	18.8	20.6	17.0	21.8	15.9	5.9	6.7	120	9.9	81
7	973.5	10.5	4.1	13.4	64	15.4	115	6.7	3	16.0	19.6	17.8	16.5	22.9	15.0	7.9	1.0	60	8.0	65
8	974.3	20.2	3.5	14.2	68	16.2	95	5.6	5	16.4	19.8	18.7	17.2	21.7	16.0	5.7	0.8	25	6.3	52
9	974.1	19.9	3.4	14.1	70	16.1	100	8.1	6	16.3	19.7	21.2	17.5	22.0	15.3	5.7	0.5	10	9.7	79
10	974.2	18.5	2.0	15.2	82	17.3	85	4.5	8	16.4	17.8	17.3	16.3	20.8	15.4	5.4	5.9	105	3.3	27
11	974.2	20.2	3.9	13.4	65	15.4	75	5.8	9	15.8	20.0	18.6	16.8	22.1	15.7	6.4	3.7	145	4.3	35
12	974.5	19.9	2.7	15.4	75	17.5	95	6.7	8	16.7	19.3	19.6	17.7	21.9	15.8	6.1	2.5	135	7.1	58
13	973.4	20.5	2.6	16.2	76	18.4	80	4.9	8	17.2	20.2	18.6	17.3	22.8	16.3	6.5	6.2	110	6.1	49
14	97[illegible].3	18.9	1.7	16.1	84	18.3	85	3.6	9	17.2	18.1	21.9	16.5	23.5	18.4	5.1	0.4	15	5.8	47
15	97[illegible]	18.3	0.8	17.0	92	19.4	75	4.0	9	15.5	17.8	21.2	...	22.3	15.3	7.0	1.0	50	2.1	17
16	971.8	20.9	3.7	14.7	68	16.7	120	0.9	7	...	20.6	21.4	17.1	23.0	14.8	8.2	0.1	5	7.8	63
17	970.5	21.6	4.5	13.9	62	15.9	..	...	6	15.6	21.4	20.8	15.8	23.9	15.4	8.5	...	...	5.5	44
18	970.0	22.0	4.7	14.0	51	15.0		CALM	6	14.8	21.8	22.1	17.0	24.4	14.6	9.8	...	...	6.4	51
19	969.6	21.7	4.4	14.2	62	16.2	85	4.5	3	16.8	21.3	18.6	17.7	24.3	15.7	8.6	2.2	45	4.9	39
20	970.4	20.5	3.0	15.5	73	17.6	130	5.6	3	17.2	20.2	21.1	17.4	22.9	16.3	6.6	...	...	9.4	75
21	971.2	20.5	3.1	15.3	72	17.4	115	4.7	8	16.2	19.6	19.2	16.5	22.3	15.5	6.8	2.0	105	7.4	59
22	971.0	22.0	4.1	15.2	66	17.3		CALM	8	14.0	21.2	21.9	18.2	24.9	13.9	11.0	...	...	6.5	52
23	971.2	22.7	3.1	17.8	74	20.4	45	3.1	6	17.4	21.6	23.7	18.2	24.2	17.3	6.9	...	...	11.2	89
24	971.0	21.7	3.0	16.9	74	19.2	45	3.1	7	17.6	21.0	18.7	17.5	23.7	17.0	6.7	4.1	70	4.3	35
25	96[illegible].7	22.1	3.4	16.5	71	18.8	75	4.3	5	17.2	21.3	22.7	18.0	24.2	17.2	7.0	...	...	10.0	79
26	9[illegible].7	21.7	3.6	15.7	68	17.8		CALM	8	16.7	21.3	22.7	17.5	24.0	16.7	7.3	3.5	40	4.2	33
27	96[illegible].4	18.7	0.6	17.7	94	20.3		CALM	10	17.2	20.0	18.9	17.3	22.3	17.0	5.3	43.1	4[illegible]5	2.3	19
28	96[illegible].7	22.1	3.2	16.9	72	19.2	145	3.1	8	16.1	21.4	23.4	16.5	24.7	16.0	8.7	0.1	5	11.5	91
29	967.0	21.8	4.1	15.0	66	17.1	130	3.6	7	14.5	20.6	23.5	15.0	24.3	14.5	9.8	...	...	8.1	64
30	966.6	18.9	2.1	15.4	80	17.5	95	4.7	8	15.3	18.3	19.2	16.0	22.4	14.8	7.6	1.8	70	4.2	33
31	966.7	[illegible]	[illegible]	[illegible]	56	14.3		CALM	6	14.6	20.7	22.6	16.3	24.2	14.6	9.6	...	...	8.8	69
Mean	971.2	20.6	3.1	15.4	72.8	17.5	...	4.1	6.9	16.1	20.1	20.6	16.9	23.1	15.7	7.4	97.5	1670	7.13	57.6
Average	970.0	21.1	3.2	15.8	71.6	17.9	...	3.7	6.3	...	...	...	...	23.1	15.6	7.5	62.8	...	7.42	59.5
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

EXCESS OF CERTAIN ELEMENTS AT PAMPLEMOUSSES OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	+ 42.1 mbs	Amount of Rain	-28.8 mms
Temperature of the Air	+ 3.6°C	Duration of Sunshine	+22.3 hrs
Vapour Pressure	+ 1.2 mbs	Mean of Maximum Temperatures	+ 2.5°C
Relative Humidity	- 10.9 %	Mean of Minimum Temperatures	+ 1.9°C
Velocity of Wind	+ 0.1 m.p.s.	Absolute Maximum Temperature	+ 3.4°C
Amount of Cloud	- 0.5	Absolute Minimum Temperatures	+ 0.1°C

Greatest Rainfall Intensity 5.4 mms in 5 mins.

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF OCTOBER, 1942

Month and Day 1942	Atmospheric Pressure: Mean	Atmospheric Pressure: Excess above Average	Temperature of the Air: Daily Maximum	Temperature of the Air: Daily Minimum	Temperature of the Air: Daily Range	Temperature of the Air: Mean	Temperature of the Air: Excess above Average	Excess of Air Temp. over Evaporation Temperature	Temperature of the Dew Point: Mean	Temperature of the Dew Point: Excess above Average	Relative Humidity (Sat. = 100): Mean	Relative Humidity (Sat. = 100): Excess above Average	Vapour Pressure	Minimum on the grass	Rainfall: Amount recorded by Dines Pluviograph	Rainfall: Duration	Amount of Evaporation	[illegible] (0-10)
OCT.	mbs	mbs	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C	mms	mins	mms	
1	1014.8	+ 2.4	25.8	17.6	8.2	21.2	- 0.2	2.6	16.9	+ 0.6	76	+ 3	19.2	12.0	0.4	20	5.9	5.0
2	1015.0	+ 2.3	25.6	16.0	9.6	21.3	- 0.1	3.4	15.6	- 0.7	70	- 3	17.7	14.7	0.3	45	5.5	4.0
3	1014.1	+ 1.4	26.0	13.7	12.3	20.3	- 1.2	3.8	13.7	- 2.7	66	- 7	15.7	8.1	0.0	...	7.1	2.8
4	1013.5	+ 0.9	25.7	17.6	8.1	21.4	- 0.1	4.0	14.6	- 1.8	65	- 8	16.6	13.2	0.0	...	7.3	2.8
5	1014.3	+ 1.8	24.7	18.0	6.7	20.7	- 0.9	2.7	16.2	- 0.2	75	+ 2	18.4	13.4	4.4	105	3.5	4.2
6	1014.7	+ 2.2	24.3	18.1	6.2	20.5	- 1.1	2.5	16.3	- 0.1	77	+ 4	18.5	13.4	5.0	135	5.3	5.3
7	1012.5	+ 2.8	25.1	17.3	7.8	20.8	- 0.9	3.1	15.7	- 0.8	72	- 1	17.8	14.9	2.8	75	6.0	4.4
8	1015.8	+ 3.5	25.3	19.0	6.3	21.5	- 0.2	4.0	14.7	- 1.8	65	- 8	16.7	15.2	0.0	...	6.1	5.3
9	1016.0	+ 3.8	25.3	18.3	7.0	21.7	- 0.1	4.5	14.0	- 2.6	62	- 11	16.0	14.5	0.0	...	6.5	5.5
10	1016.5	+ 4.4	23.2	18.3	4.9	20.6	- 1.2	3.0	15.6	- 1.0	73	0	17.7	15.1	2.2	175	6.3	9.0
11	1016.3	+ 4.3	25.1	17.3	7.8	20.7	- 1.1	2.5	16.6	0.0	77	+ 5	18.9	13.2	1.3	70	4.5	7.2
12	1015.9	+ 3.9	25.0	18.2	6.8	21.0	- 0.9	2.1	17.6	+ 0.9	81	+ 9	20.1	15.4	7.7	190	4.1	8.8
13	1014.6	+ 2.7	24.1	18.7	5.4	21.2	- 0.7	2.0	18.0	+ 1.3	82	+ 10	20.6	16.0	3.0	100	4.5	7.9
14	1013.3	+ 1.5	25.2	18.5	6.8	21.6	- 0.4	3.2	16.4	- 0.4	72	0	18.7	17.2	1.5	25	3.3	6.0
15	1013.4	+ 1.7	25.3	17.0	8.3	20.5	- 1.5	2.7	16.0	- 0.8	76	+ 4	18.2	12.9	0.0	...	5.4	4.9
16	1012.5	+ 0.9	25.8	15.9	9.9	20.5	- 1.6	2.9	15.7	- 1.2	74	+ 2	17.8	11.1	0.0	...	5.0	4.9
17	1011.4	- 0.1	26.5	18.0	8.5	21.3	- 0.8	3.4	15.6	- 1.3	70	- 2	17.7	12.5	0.0	...	4.2	5.8
18	1010.6	- 0.8	27.0	16.1	10.9	21.4	- 0.3	3.4	15.7	- 1.3	70	- 2	17.8	11.0	0.1	5	5.0	5.2
19	1010.7	- 0.7	26.3	17.3	9.0	22.0	- 0.2	3.2	11.8	- 0.2	72	0	19.1	12.2	0.0	...	5.5	4.8
20	1011.7	+ 0.4	25.6	19.2	6.4	22.0	- 0.3	3.5	16.3	- 0.7	70	- 2	18.5	14.9	0.0	...	5.3	7.0
21	1012.4	+ 1.1	25.4	18.2	7.2	21.4	- 0.9	3.4	15.7	- 1.4	70	- 2	17.8	14.0	0.2	20	5.7	5.3
22	1012.2	+ 1.0	27.0	14.6	12.4	21.3	- 1.1	3.4	15.6	- 1.6	70	- 2	17.7	9.0	0.0	...	6.5	4.5
23	1012.5	+ 1.4	27.0	19.0	8.0	22.5	0.0	3.0	17.7	+ 0.3	74	+ 2	20.2	13.5	0.0	...	6.3	1.8
24	1012.0	+ 0.9	26.1	19.3	6.8	22.6	+ 0.1	3.1	17.7	+ 0.3	74	+ 2	20.2	14.5	0.7	15	6.9	5.8
25	1010.0	- 1.0	26.1	19.3	6.8	22.4	- 0.2	2.9	17.7	+ 0.4	75	+ 3	20.2	16.2	11.4	95	5.7	4.3
26	1007.9	- 3.0	28.3	17.7	10.6	22.4	- 0.2	2.8	17.9	+ 0.6	76	+ 4	20.5	14.4	5.6	50	6.2	4.0
27	1017.6	- 3.2	24.2	18.5	5.7	20.7	- 2.0	1.0	19.1	+ 1.7	91	+ 19	22.1	14.9	21.3	440	5.1	7.1
28	1007.5	- 3.2	27.3	18.2	9.1	22.0	- 0.7	2.9	17.3	- 0.1	75	+ 3	19.8	14.8	0.0	...	3.5	5.1
29	1007.8	- 2.9	26.0	15.9	10.1	20.8	- 2.0	3.2	15.5	- 2.0	72	0	17.6	12.0	0.0	...	5.0	4.5
30	1007.1	- 3.5	24.3	17.4	6.9	20.4	- 2.4	2.8	15.7	- 1.9	74	+ 2	17.8	13.0	0.8	50	4.9	6.2
31	1007.8	- 2.8	25.1	16.2	8.9	20.5	- 2.4	3.4	14.7	- 2.8	69	- 3	16.7	12.2	0.0	...	4.2	4.3
Mean	1012.4	- 0.8	25.6	17.6	8.0	21.3	- 0.8	3.1	16.2	- 0.7	7[illegible]1	+ 0.8	18.5	13.5	68.7	1615	5.4	5.3
Average	1011.6	...	26.8	18.0	8.8	22.1	...	3.3	16.9	...	72.3	...	19.1	14.9	40.4	770	5.9	5.1
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

General Weather Conditions during the Month of October, 1942

Anticyclonic conditions prevailed except on the 18th and the 26th-27th when extra-tropical depressions were moving east far to the south.

Mean pressure and temperature were appreciably below normal. Rainfall was 170% of the normal and its duration 220%. The other meteorological elements approximated to the normal.

TABLE VII (Cont'd) - Daily RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF OCTOBER, 1942

Month and Day 1942	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the Soil: 10 Feet	Temperature of the Soil: 5 Feet	Temperature of the Soil: 2 Feet	Temperature of the Soil: 12 Inches	WEATHER (0h 3h 6h 9h 12h 15h 18h 21h 24h)
OCT.									
1	9.5	78	3.2	- 0.4	24.2	23.7	23.6	23.5	b bc bcro c
2	11.7	96	3.4	- 0.2	24.2	23.7	23.7	23.4	cro bc b bc b
3	11.5	94	3.3	- 0.3	24.3	23.6	23.7	23.6	b bc c
4	8.5	69	3.3	- 0.3	24.3	23.6	23.8	23.7	b bc b
5	7.7	63	3.8	+ 0.2	24.2	23.7	23.8	23.6	b bcqo cqoR bcqoro bcqo b bo
6	8.3	68	4.1	+ 0.5	24.1	23.6	23.8	23.4	bro cqro cqo b bro
7	8.9	72	3.5	0.0	24.1	23.7	23.8	23.5	bcr bc bqoro bcqo c bc b
8	9.4	76	4.4	+ 0.9	24.1	23.8	23.8	23.7	b bcqo cqo bc
9	10.5	85	5.4	+ 1.9	24.1	23.7	23.8	23.6	bc bcqo
10	4.5	36	4.9	+ 1.4	24.1	23.7	23.8	23.4	oro cqoro cqo cqro oro
11	6.8	55	3.7	+ 0.2	24.1	23.6	23.8	23.4	bro bc bcqo oq cro c
12	6.8	55	4.4	+ 0.9	24.1	23.7	23.8	23.6	or cqo oR cqor
13	4.8	39	3.8	+ 0.3	24.1	23.6	23.8	23.7	bcqo bcqoro c cro Bc
14	6.9	55	3.1	- 0.4	24.1	23.7	23.9	23.8	cro c bc bcqo bc
15	3.1	25	2.8	- 0.7	24.1	23.5	23.9	23.9	bc b
16	5.4	43	2.1	- 1.3	24.1	23.8	24.2	24.2	bc c bc b
17	4.8	38	2.2	- 1.2	24.0	23.4	24.0	23.6	b bc c bc b
18	8.3	66	1.9	- 1.5	24.1	23.6	24.0	23.6	b bc cro
19	8.6	68	2.2	- 1.2	24.1	23.7	24.0	24.0	b bc c bc
20	[illegible].7	69	3.9	+ 0.5	24.1	23.6	24.0	24.3	c bc c cqo bcqo c
21	8.8	70	3.3	- 0.1	24.1	23.8	24.1	24.2	bc bcro bc b
22	9.2	73	2.1	- 1.3	24.1	23.8	24.2	24.2	bo b bc c bc
23	[illegible].2	97	3.3	- 0.1	24.0	23.8	24.3	24.4	bo bc b
24	[illegible].9	63	3.5	+ 0.1	24.1	23.8	24.4	24.8	b bcro c bc
25	11.8	93	3.2	- 0.2	24.1	24.0	24.5	24.6	bcro bcR bc b
26	9.6	76	2.2	- 1.2	24.1	24.1	24.7	25.0	b bc bcro bc
27	2.2	17	1.7	- 1.7	24.1	24.0	24.8	25.1	bc bcro bcr cr oRR orr bc b
28	10.4	82	2.5	- 0.9	24.1	24.1	24.8	24.4	c bc b
29	8.0	63	2.0	- 1.4	24.1	23.7	24.5	24.7	b bc c bc b
30	2.1	16	2.0	- 1.4	24.1	23.9	24.6	24.2	bc c cro bcro b
31	6.7	52	2.0	- 1.4	24.0	23.9	24.6	23.8	bo b bc c bc b
Mean	7.86	63.0	3.14	- 0.33	24.11	23.72	27.08	23.94	
Average	8.18	65.5	3.47	...	24.43	24.03	23.98	24.39	
Column	19	20	21	22	23	24	25	26	27

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF OCTOBER, 1942

Element	Highest	hrs	Date	Lowest	hrs	Date
Atmospheric Pressure	1018.0 mbs	at 22 & 23 hrs	on 10th	1005.9 mbs	at 16.00	on 29th
Temperature of the Air	28.3°C	at 14.20 hrs	on 26th	13.7°C	at 04.15	on 3rd
Daily Range of Temperature of the Air	12.4°C		on 22nd	4.9°C	at ...	on 10th
Temperature of the Dew Point	21.8°C	at 09.00 hrs	on 27th	12.3°C	at 09.00	on 9th
Minimum on grass				8.1°C		on 3rd
Relative Humidity	97.2 %	at 15.00 hrs	on 27th	45.7%	at 13.00	on 22nd
Vapour Pressure	26.1 mbs	at 09.00	on 27th	14.3 mbs	at 09.00	on 9th
Evaporation in 24 hrs	7.3 mms		on 4th	3.3 mms		on 14th
Wind Velocity	8.2 mps	at 14.00	on 9th	0.7 mps	at 05.00	on 20th
Rainfall in 24 hrs	26.7 mms	ending 17.00	on 27th			
Duration of Sunshine	12.2 hrs		on 23rd	2.1 hrs		on 30th

Mean Day Temperature of Air 23.42°C Average ... Mean Night Temperature of Air 19.10°C Average ..

NUMBER OF DAYS OF

Mean Cloud Amount: 0	1 - 3	4 - 6	7 - 9	10	Rainfall: 0.1 - 0.9 mms	1.0 - 4.9 mms	5.0 - 9.9 mms	10.0 - 24.9 mms	25.0 & over mms	Lightning	Thunderstorm
...	3	22	6	...	6	6	3	2	...	...	...

TABLE VIII - ATMOSPHERIC PRESSURE IN MILLIBARS AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are corrected for the [illegible] and for the effect of gravity, but are not reduced to sea level)

(The [illegible] of the barometer is 55.2 metres above mean sea level)

OCTOBER, 1942

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
Midnight	123	159	154	142	144	152	160	157	163	168	176	167	163	146	140	139	Midnight
1	15[illegible]	154	151	140	140	149	154	151	159	164	170	161	157	142	138	131	1
2	15[illegible]	151	150	132	132	146	151	150	156	161	166	159	152	139	131	127	2
3	14[illegible]	150	145	131	130	142	147	148	151	159	160	162	149	133	131	122	3
4	143	150	144	133	130	141	147	149	152	156	156	150	146	130	130	121	4
5	143	151	146	136	136	142	151	150	156	159	159	152	150	131	131	127	5
6	150	153	146	140	140	149	153	154	160	164	160	160	151	134	134	131	6
7	155	158	151	142	146	153	158	163	162	170	163	161	153	137	141	133	[illegible]
8	159	160	151	145	150	159	160	167	167	170	169	168	156	141	149	136	8
9	160	161	152	145	151	159	162	170	169	171	170	170	160	142	150	137	9
10	159	156	150	142	150	158	161	169	169	171	170	171	159	141	149	135	10
11	152	150	143	140	150	151	158	165	165	171	168	170	151	136	140	130	11
Noon	143	147	139	131	143	145	151	160	160	167	163	161	149	130	131	120	Noon
13	139	141	130	127	139	139	144	153	156	157	161	156	141	124	123	114	15
14	133	138	121	119	131	132	140	149	150	151	157	150	136	120	119	111	14
15	131	131	120	115	130	127	140	143	148	153	151	147	131	117	118	109	15
16	131	133	120	117	131	129	140	146	150	150	151	143	133	116	119	110	16
17	1[illegible]0	139	122	119	136	131	140	151	152	153	153	146	130	118	121	113	17
18	1[illegible]	141	129	125	142	140	143	158	159	160	156	151	130	125	129	119	18
19	15[illegible]	149	136	132	149	146	150	160	163	167	162	156	137	131	136	123	19
20	158	153	141	140	151	153	153	163	167	170	167	161	140	140	141	128	20
21	160	161	145	146	160	161	160	170	171	178	170	166	146	146	143	130	21
22	160	161	146	147	160	161	160	168	171	180	171	168	146	144	142	130	22
23	160	160	146	146	159	160	158	169	171	180	170	166	148	143	141	129	23

The initial 10 or 9 is omitted. The unit inthe table is 0.1 millibar

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
Midnight	127	114	114	115	130	129	132	136	122	096	080	074	091	075	072	132	Midnight
1	125	108	109	110	123	121	129	131	116	090	079	071	089	070	071	128	1
2	121	102	103	109	120	119	123	123	110	081	071	069	081	075	067	123	2
3	118	101	101	108	119	116	120	121	106	080	064	066	079	064	060	120	3
4	118	101	101	110	120	117	120	120	105	077	065	065	077	065	066	119	4
5	119	102	104	112	122	120	120	120	106	075	070	067	079	067	069	122	5
6	120	110	109	119	129	127	126	121	108	079	073	071	080	070	074	126	6
7	121	111	112	122	133	130	130	127	110	081	080	076	082	076	080	129	7
8	123	113	117	126	136	134	132	129	111	090	081	080	086	081	081	133	8
9	125	114	118	129	135	136	136	131	111	090	088	080	087	091	087	135	9
10	120	112	115	127	133	131	132	130	110	090	088	079	086	080	084	133	10
11	113	110	111	121	128	126	130	126	103	082	086	076	085	077	080	129	11
Noon	109	101	101	119	121	121	125	121	099	075	080	072	079	071	072	123	Noon
13	101	095	093	110	117	112	119	111	090	069	075	070	071	067	071	117	13
14	099	090	091	103	109	110	112	106	083	064	071	066	070	061	069	112	14
15	096	087	091	101	106	104	110	103	080	062	070	062	061	060	068	109	15
16	096	090	092	102	108	103	110	103	079	061	068	061	059	060	069	109	16
17	100	095	096	108	111	109	111	105	080	066	070	066	062	061	072	112	17
18	107	101	101	112	117	113	116	110	089	073	072	072	071	068	079	118	18
19	111	109	110	121	121	120	122	117	093	079	077	080	076	072	082	124	19
20	117	113	114	126	130	128	130	123	100	081	080	087	080	076	091	129	20
21	117	113	114	126	130	128	130	123	100	081	080	087	080	076	091	129	21
22	120	119	121	134	136	133	140	127	096	087	083	096	081	081	098	134	22
23	119	118	120	130	133	132	139	125	099	085	081	095	080	[illegible]	[illegible]	[illegible]	23

TABLE IX - AMOUNT OF CLOUD AT EVERY HOUR OF THE DAY (0 - CLEAR SKY, 10 = OVERCAST SKY)

Hour \ Day	OCTOBER, 1942																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Midnight	1	8	1	1	2	0	4	2	5	10	3	10	6	8	2	2	2	3	3	8	8	0	0	1	1	1	4	9	0	3	0	3.5
1	1	8	1	1	2	0	4	2	5	10	3	10	6	8	0	4	3	3	3	8	8	0	0	1	1	1	6	9	0	3	0	3.6
2	1	8	1	2	2	0	4	2	5	10	3	10	6	8	6	5	5	2	3	8	6	0	0	1	2	1	7	9	0	2	0	3.9
3	1	8	1	2	2	8	2	2	5	8	2	10	5	8	8	5	6	1	0	8	6	0	0	1	9	1	8	9	0	3	0	4.2
4	1	6	1	2	3	8	2	2	5	8	2	10	5	9	4	5	6	4	1	7	6	0	0	1	7	1	7	9	2	3	2	4.2
5	1	6	1	2	3	9	5	2	4	8	5	10	8	9	2	5	6	5	0	6	7	4	0	10	9	1	6	5	2	9	2	4.9
6	1	5	1	2	3	9	4	3	2	8	5	10	8	9	7	5	6	7	0	5	8	4	1	3	4	1	5	5	3	8	6	4.8
7	1	4	1	2	3	9	4	5	1	8	5	9	8	8	7	5	7	6	1	5	7	3	2	2	5	1	5	5	4	7	5	4.7
8	4	4	4	2	6	9	4	5	7	8	6	8	9	7	7	5	7	5	3	6	6	4	3	5	5	3	7	5	5	8	5	5.5
9	6	3	6	2	9	9	3	7	7	8	6	7	9	7	7	5	7	4	6	7	6	4	5	7	6	5	9	5	5	8	4	6.1
10	5	3	6	3	8	9	3	7	7	8	10	9	8	6	7	6	8	5	5	7	7	4	4	7	6	4	9	5	8	9	5	6.4
11	8	5	6	3	0	9	4	6	7	9	10	9	8	6	7	6	8	5	4	7	7	4	4	7	6	4	9	5	8	9	6	6.6
Noon	6	3	6	5	1	9	4	8	9	9	10	8	9	5	7	8	6	6	4	8	7	4	4	7	6	5	9	6	8	9	6	6.8
13	5	3	8	5	0	8	5	8	6	9	10	8	9	7	7	6	6	6	5	8	8	5	4	[illegible]	6	6	10	7	8	9	7	6.8
14	6	3	4	6	7	8	7	8	6	9	10	8	9	5	6	6	7	6	5	8	7	6	3	7	6	6	10	7	8	9	8	6.8
15	7	3	3	7	6	4	8	9	6	10	9	10	9	6	5	7	7	7	8	8	6	7	3	8	5	6	10	7	8	9	9	7.0
16	7	4	3	5	6	3	7	9	6	10	9	10	9	5	5	7	8	7	8	8	6	7	2	8	4	7	10	5	8	9	9	6.8
17	7	5	4	3	6	2	7	8	5	10	10	10	10	4	6	8	9	8	9	8	5	8	1	9	3	9	10	5	9	9	9	7.0
18	8	5	3	2	4	2	9	5	6	9	10	10	10	3	7	8	8	9	9	8	4	9	1	9	3	10	10	3	9	6	8	6.7
19	8	3	2	2	3	2	8	4	6	10	9	9	3	5	8	4	9	8	5	3	7	1	8	2	7	8	2	8	4	6	6	5.6
20	3	1	1	2	0	2	3	5	5	10	8	6	7	2	3	2	3	9	8	2	1	9	1	9	2	4	3	2	1	4	1	4.0
21	8	1	1	2	0	2	2	6	5	10	8	6	7	6	1	0	3	2	7	8	1	9	1	9	2	3	2	1	1	3	1	3.8
22	8	1	1	2	0	2	2	6	5	10	8	8	7	4	1	0	3	2	6	8	1	7	1	9	2	4	2	1	1	3	1	3.7
23	[illegible]	1	1	2	0	2	2	6	5	10	8	9	7	4	1	0	3	4	5	8	1	3	1	3	2	4	2	1	1	3	1	3.5

TABLE X - DURATION OF BRIGHT SUNSHINE AT EVERY HOUR OF THE DAY AS RECORDED BY THE CAMPBELL-STOKES SUNSHINE RECORDER

Hour \ Day	OCTOBER, 1942																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	hrs
6h	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	3	0	0.6
7	45	48	5[illegible]	51	2	0	15	18	26	0	14	10	15	0	2	50	58	40	60	38	5	60	60	7	55	50	53	47	[illegible]	59	4[illegible]	17.3
8	60	60	60	60	45	10	60	59	50	50	20	57	60	8	0	60	40	60	57	60	60	60	60	60	58	60	60	60	[illegible]	0	6[illegible]	25.6
9	60	60	60	60	60	20	60	50	45	60	58	60	35	5[illegible]	3	55	0	60	60	60	60	60	60	60	60	45	0	60	[illegible]5	15	60	25.0
10	60	60	60	60	50	60	60	60	60	40	60	45	35	20	10	30	25	60	60	60	60	60	60	60	60	30	11	45	40	0	60	24.4
11	50	60	60	60	4	60	60	60	60	15	60	30	6	30	25	0	60	50	60	50	60	60	60	60	60	40	0	40	13	0	30	21.4
Noon	60	60	60	45	2	30	60	54	60	35	56	50	14	60	32	40	45	47	60	60	25	60	60	60	60	45	0	40	37	15	40	22.8
13	35	60	60	0	34	36	60	60	60	12	9	60	45	16	40	60	50	60	60	12	50	60	60	30	60	60	0	60	50	15	40	21.9
14	54	60	60	25	60	56	52	50	60	30	14	60	40	4	13	30	8	60	49	40	30	54	60	60	60	60	0	57	30	0	20	20.7
15	35	60	60	40	60	58	18	60	60	15	60	35	26	67	60	0	4	10	2	25	60	30	60	43	60	60	0	47	58	2	15	19.8
16	56	60	60	34	60	60	15	54	60	11	32	0	0	60	3	0	0	2	0	55	60	0	60	19	60	56	0	44	40	18	26	16.8
17	57	60	60	52	60	55	15	60	48	0	30	5	0	60	0	0	0	30	40	50	50	40	60	15	60	60	0	60	19	0	4	17.[illegible]
18	0	53	51	27	25	52	19	25	52	19	4	0	0	47	0	0	0	13	0	11	8	0	60	0	55	12	10	20	10	0	0	[illegible]
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	25	2	0	8	[illegible]

The amount of registered sunshine was 243.8 hours and the total possible sunsgine was 387.4 [illegible]s.

TABLE XI - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the Absolute Scale add 273)

OCTOBER, 1942

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	18.1	1.6	19.0	1.0	16.1	1.9	19.[illegible]	2.7	19.[illegible]	2.1	18.[illegible]	[illegible].3	19.0	1.7	19.[illegible]	1.8	Midnight
1	18.0	1.7	19.0	1.2	16.0	2.0	19.0	2.7	1[illegible].9	2.3	18.2	1.2	18.4	1.3	19.4	2.4	1
2	18.0	1.6	19.1	1.0	16.1	2.1	19.0	2.9	18.4	2.2	18.5	1.3	18.3	1.1	20.1	3.2	2
3	17.7	1.4	19.6	0.8	14.7	1.7	18.9	2.8	18.1	1.7	18.2	1.6	18.1	1.1	19.3	2.7	3
4	18.1	1.1	19.1	1.1	14.1	1.9	17.9	2.7	18.3	1.4	18.1	0.9	18.1	1.4	19.1	2.9	4
5	18.1	1.1	19.6	1.8	14.3	2.0	18.1	2.5	19.0	1.3	18.3	1.0	18.1	1.4	19.2	2.5	5
6	18.5	1.3	19.1	1.1	15.1	2.1	17.7	2.1	19.0	1.5	18.3	0.9	17.3	1.2	19.4	2.5	6
7	20.6	1.4	20.4	1.3	17.7	1.7	20.1	3.0	19.6	1.5	18.8	1.4	19.0	1.5	21.0	3.4	7
8	23.1	3.2	22.5	3.3	22.0	4.3	22.6	4.6	22.3	3.3	19.1	0.5	22.0	3.8	22.0	4.5	8
9	24.7	4.8	23.9	4.6	23.9	5.9	23.9	5.9	23.0	3.8	21.1	2.0	23.5	5.3	23.1	5.4	9
10	25.1	5.2	24.2	4.9	24.3	6.3	25.3	6.7	23.2	3.4	23.0	3.8	24.0	5.4	24.7	6.5	10
11	24.3	4.2	24.9	5.6	25.3	6.3	25.6	7.0	20.1	0.8	23.8	4.7	24.6	6.0	24.9	6.8	11
Noon	24.2	4.5	25.0	5.8	25.6	6.2	24.6	5.3	21.9	2.2	22.9	4.3	24.3	6.1	24.5	5.9	Noon
13	23.7	3.9	25.2	6.0	25.1	6.1	24.1	6.0	24.0	4.3	24.1	5.0	24.2	5.1	24.7	6.5	13
14	24.0	4.4	25.3	6.6	25.3	6.3	24.4	5.8	24.3	4.8	23.2	3.6	24.0	4.8	24.1	6.6	14
15	23.7	4.0	25.0	7.0	25.0	6.1	24.0	5.7	24.1	5.2	23.9	4.9	21.8	3.2	24.0	5.9	15
16	23.7	4.1	24.0	6.3	24.1	6.1	23.[illegible]	5.5	23.9	5.4	23.2	4.2	21.1	2.5	23.7	6.1	16
17	22.3	2.4	23.1	5.2	22.9	5.1	22.7	4.7	22.7	4.6	22.4	3.5	21.1	2.6	[illegible]	4.4	17
18	21.2	2.0	21.5	4.5	21.3	3.7	21.6	3.6	21.2	3.3	21.1	3.0	20.9	2.3	[illegible]	3.5	18
19	20.6	1.6	20.2	3.4	20.4	3.4	20.7	2.8	20.2	2.9	20.1	2.1	20.2	2.7	[illegible]	3.1	19
20	20.1	1.5	19.0	2.7	19.7	3.1	20.1	2.8	19.7	2.7	19.6	2.0	20.0	3.0	20.3	3.0	20
21	19.8	1.7	18.0	2.3	19.2	3.5	19.9	2.7	19.0	2.1	19.0	1.9	20.0	3.1	20.0	1.9	21
22	19.7	1.6	17.9	1.9	19.1	2.4	20.0	2.8	18.6	1.8	18.9	1.8	20.0	2.8	19.7	2.6	22
23	19.7	1.6	16.7	1.8	19.1	2.4	19.6	2.6	18.9	1.9	20.1	2.9	[illegible]	1.9	20.0	2.8	23

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	19.9	2.9	20.1	3.1	[illegible]	1.6	20.0	1.8	20.[illegible]	1.0	20.9	1.9	18.7	1.2	17.1	1.3	Midnight
1	19.2	2.2	20.2	3.1	18.7	1.1	20.0	1.7	20.1	1.2	20.2	1.2	18.6	1.0	16.9	1.4	1
2	19.1	2.1	18.8	1.2	18.3	1.2	18.9	0.8	20.0	1.0	20.0	1.0	18.5	0.9	16.1	1.0	2
3	19.3	2.4	18.9	1.9	17.6	1.6	18.8	0.8	20.0	1.0	20.0	1.0	18.5	0.8	16.0	1.1	3
4	19.0	2.6	19.1	2.0	18.0	1.7	18.6	1.3	19.8	1.2	19.7	1.1	18.0	0.8	16.0	1.1	4
5	19.1	2.4	19.0	1.9	17.8	1.7	18.9	0.9	19.0	1.0	20.0	1.2	17.5	0.8	16.1	1.1	5
6	18.3	2.6	18.9	2.3	18.2	1.4	18.3	1.2	18.7	1.4	20.0	1.4	17.9	0.9	16.7	1.1	6
7	20.6	4.0	19.1	2.7	19.8	2.1	19.7	1.5	20.6	1.4	20.6	1.5	19.7	1.4	20.5	1.3	7
8	22.6	5.6	21.9	3.9	20.6	1.9	22.0	3.3	22.8	2.7	21.7	2.1	20.7	2.0	22.9	3.8	8
9	[illegible]	6.8	23.1	4.9	23.2	4.6	23.6	4.5	21.2	1.2	23.0	3.9	21.1	1.9	23.1	4.1	9
10	24.0	5.6	23.0	5.0	24.0	5.4	23.5	4.1	23.1	3.0	23.9	5.3	21.3	2.2	23.1	4.3	10
11	24.2	6.2	20.0	1.7	24.6	6.5	22.1	2.6	23.5	3.4	24.0	4.7	23.3	3.7	23.8	4.7	11
Noon	25.0	7.0	21.9	3.2	23.5	4.5	24.1	4.3	22.1	2.1	24.7	5.6	23.5	5.2	25.0	6.3	Noon
13	24.0	6.0	22.9	4.8	22.9	3.6	24.2	4.4	23.2	4.9	23.2	3.3	24.7	6.0	25.2	6.2	13
14	24.9	6.7	22.9	5.0	22.1	2.3	23.8	3.8	24.0	4.3	24.6	5.6	24.3	6.1	24.8	5.7	14
15	24.3	6.3	19.7	1.7	23.3	4.1	23.1	3.6	23.2	4.0	24.3	6.0	24.5	5.7	24.1	4.8	15
16	24.1	5.9	21.1	2.8	21.7	2.6	23.1	3.7	21.3	2.1	24.0	6.0	24.5	6.0	23.2	4.0	16
17	22.9	5.4	20.9	2.8	22.0	3.0	20.8	1.1	20.6	1.3	23.2	5.1	23.3	5.3	22.9	3.8	17
18	21.8	5.2	21.0	3.7	20.1	1.3	20.0	1.0	20.5	1.3	22.1	4.2	21.9	4.2	21.9	3.2	18
19	21.3	4.1	20.7	3.4	20.1	1.2	20.2	1.1	21.0	1.7	20.9	3.8	20.0	2.7	20.4	2.1	19
20	21.1	3.9	21.0	3.5	20.1	1.2	19.9	1.0	20.9	1.8	19.7	2.6	19.0	2.0	19.9	1.9	20
21	21.1	4.4	20.3	2.4	20.1	2.0	20.3	1.2	20.4	1.4	19.2	2.2	18.4	1.8	18.9	1.7	21
22	21.0	3.8	20.6	3.3	20.3	2.0	20.1	0.9	20.7	1.7	18.9	1.9	18.1	1.7	18.8	1.5	22
23	20.6	3.3	19.2	1.3	20.3	1.9	19.8	0.8	20.8	1.8	18.5	1.7	18.1	1.6	18.1	1.3	23

TABLE XI (Ctd) - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the Absolute Scale add 273)

OCTOBER, 1942

Day / Hour	17		18		19		20		21		22		23		24		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	18.0	1.3	18.1	1.8	18.6	1.1	20.[illegible]	1.6	19.9	2.5	17.[illegible]	1.6	19.6	1.6	20.[illegible]4		Midnight
1	18.4	1.2	18.2	1.0	17.5	1.4	19.6	1.5	19.5	1.5	16.7	1.7	19.3	1.3	20.[illegible]	1.5	1
2	18.6	1.2	17.2	1.3	18.9	1.0	19.6	1.4	19.3	2.3	16.3	1.4	19.2	1.1	20.0	1.5	2
3	19.2	1.2	16.3	1.2	18.3	0.9	19.7	1.4	19.1	2.1	15.4	1.4	19.1	1.6	19.9	1.1	3
4	19.1	1.2	16.2	1.2	17.6	0.9	19.9	1.6	19.1	2.2	15.2	1.2	19.0	1.0	19.7	1.5	4
5	18.3	1.1	17.0	1.2	17.8	0.9	19.8	1.7	18.6	2.0	15.0	1.3	19.0	1.0	20.0	1.4	5
6	18.6	0.9	17.1	1.1	18.1	0.9	19.9	2.1	18.5	1.7	15.1	1.0	19.4	1.0	20.1	1.2	6
7	22.2	3.1	20.1	1.1	22.0	2.9	21.1	2.9	20.3	1.8	19.5	1.4	22.6	2.4	21.1	1.1	7
8	22.2	3.0	23.3	4.3	23.2	4.1	23.1	4.0	23.0	3.9	23.0	4.0	23.3	2.5	23.1	2.9	8
9	23.0	4.1	24.1	4.7	24.6	4.8	23.9	4.6	23.8	4.7	24.2	5.1	24.8	3.7	24.6	4.3	9
10	24.3	5.3	25.1	6.0	25.0	5.5	25.2	5.6	25.2	6.1	25.2	6.2	25.8	4.8	25.8	4.9	10
11	25.3	6.0	25.8	6.6	25.5	5.7	25.2	5.6	25.1	6.0	26.1	6.6	26.2	5.2	25.9	5.2	11
Noon	25.1	6.4	26.0	6.8	25.8	6.3	25.2	5.3	24.9	5.8	26.2	6.6	26.4	5.5	25.2	4.5	Noon
13	[illegible]	6.4	26.6	6.9	25.9	6.6	25.0	5.7	23.9	4.8	26.6	7.0	26.2	5.3	25.3	4.7	13
14	[illegible]	[illegible]	26.2	6.6	25.2	5.3	25.3	5.9	25.1	5.9	25.6	6.4	26.2	5.8	25.8	5.3	14
15	[illegible]	6.3	24.9	5.7	23.3	3.9	24.5	5.3	24.7	5.4	25.5	5.9	26.1	5.8	24.7	4.6	15
16	23.9	6.1	24.3	5.6	23.9	4.0	24.0	5.0	24.2	5.1	24.3	4.7	25.3	5.4	24.1	4.1	16
17	23.2	5.2	24.0	4.8	24.1	4.3	22.8	4.0	22.1	3.6	24.0	4.1	24.5	4.9	23.9	[illegible]	17
18	22.4	4.2	23.3	4.3	23.3	3.2	21.5	3.5	21.6	3.5	23.1	3.4	23.1	3.6	23.0	3.5	18
19	21.1	3.0	22.2	3.5	22.8	2.9	20.9	3.0	20.7	2.8	22.0	2.7	22.3	3.1	22.2	3.0	19
20	19.9	2.5	21.0	2.6	22.1	2.9	20.5	2.8	20.0	2.5	21.9	2.3	21.2	2.1	21.9	2.3	20
21	19.0	2.2	19.4	1.2	21.0	2.3	20.2	2.5	20.1	2.8	21.7	2.2	20.9	1.9	22.2	3.1	21
22	18.5	2.0	19.1	1.2	21.0	2.3	20.0	2.4	19.2	2.2	20.8	1.8	20.5	1.6	21.9	2.8	22
23	18.5	1.5	18.9	1.1	20.2	1.4	20.0	2.5	18.1	1.9	20.2	1.9	20.3	1.5	20.9	2.5	23

Day / Hour	25		26		27		28		29		30		31		Mean		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	20.1	1.9	19.7	1.4	18.9	0.9	19.0	1.1	18.7	2.0	17.4	1.5	17.9	2.2			Midnight
1	20.1	1.5	19.2	1.1	18.8	0.9	18.6	0.7	17.9	1.8	18.0	1.8	17.0	1.9			1
2	20.1	1.6	19.1	1.1	18.6	0.8	18.3	0.8	17.3	1.3	18.0	1.7	16.6	1.8			2
3	20.3	1.3	18.7	1.2	18.7	0.8	18.8	0.6	16.9	1.7	18.0	1.7	17.0	1.2			3
4	19.3	0.2	18.1	1.0	18.7	0.8	18.7	0.7	16.2	1.2	18.1	1.7	16.9	1.9			4
5	19.9	0.8	18.0	1.1	19.5	0.8	18.7	0.8	16.2	1.3	18.6	1.7	16.6	1.7			5
6	19.7	1.2	18.0	1.2	19.7	0.8	18.4	1.1	16.2	1.1	18.8	1.7	17.1	1.8			6
7	22.0	2.0	21.9	1.9	22.[illegible]	[illegible].2	20.5	1.5	20.1	1.3	20.7	2.6	19.[illegible]	[illegible]			7
8	23.1	3.1	23.7	2.9	23.[illegible]	[illegible].6	22.5	2.9	22.9	3.9	20.6	2.7	22				8
9	24.1	4.0	25.1	3.9	22.4	[illegible].4	24.6	4.5	23.3	4.4	20.6	2.3	24.0				9
10	24.9	4.6	25.7	5.1	24.1	[illegible].3	25.0	3.7	23.8	5.1	22.0	2.7	24.1	[illegible]			10
11	25.3	4.7	26.0	5.7	21.[illegible]	[illegible].3	25.1	3.4	22.9	4.8	23.3	4.6	24.8	5.5			11
Noon	25.7	5.2	27.1	5.8	21.6	1.6	26.2	4.0	25.4	4.7	24.0	4.8	24.7	5.6			Noon
13	25.8	5.1	27.9	6.5	20.[illegible]	0.8	27.2	5.1	26.0	5.7	23.1	4.5	24.0	5.2			13
14	25.2	5.1	28.1	6.2	20.9	0.5	26.2	5.1	24.9	5.1	22.9	4.6	24.1	5.0			14
15	25.3	5.1	27.9	5.7	[illegible]	0.3	26.0	5.1	25.2	4.7	22.8	4.8	24.2	4.5			15
16	25.0	4.8	27.3	5.6	[illegible]	0.3	26.0	5.5	24.7	5.6	22.9	4.8	23.7	5.4			16
17	24.0	4.0	24.1	3.6	21.4	0.4	25.9	5.3	23.0	4.7	[illegible]	4.2	23.2	5.1			17
18	23.0	3.3	21.0	0.8	21.3	0.5	23.1	4.5	22.2	3.1	[illegible]	2.2	22.1	4.5			18
19	22.2	2.3	21.3	1.3	21.0	0.9	21.1	3.3	21.1	3.3	20.[illegible]	1.6	20.6	3.5			19
20	21.1	2.0	20.5	1.2	20.6	0.7	20.0	2.9	19.8	3.1	19.6	2.4	19.0	2.7			20
21	20.9	1.3	20.1	0.9	20.2	0.6	19.9	2.9	18.4	2.3	19.0	2.1	18.1	2.2			21
22	20.1	1.4	19.9	1.2	19.9	0.8	19.7	2.7	18.2	2.1	18.0	1.9	17.7	2.1			22
23	20.0	1.5	19.4	0.8	19.1	0.7	18.9	2.2	18.2	1.9	18.1	2.0	16.9	1.9			23

TABLE XII - DIRECTION AND VELOCITY OF THE WIND AT EVERY HOUR OF THE DAY AS RECORDED BY THE ROBINSON CUP ANEMOMETER

DURING OCTOBER, 1942

The directions are given in points [illegible] values indicate the direction from which the wind blows counting from North (0), East (8), South (16) and West (24)

The velocities are given in metres per second, using the factor 2.2

(The days on which the Normal Trade Winds are interrupted are indicated by an asterisk)

OCTOBER, 1942

Hour \ Day	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Mid-night	11	2.0	10	2.4	11	1.7	11	2.3	12	1.7	10	1.8	11	3.0	09	3.6	11	3.3	[illegible]	[illegible]	08	2.5	08	2.3	08	3.5	08	3.6	09	2.5	09	1.2
1	11	2.3	10	1.9	18	1.4	12	2.7	12	2.0	10	2.2	12	2.9	10	3.8	11	2.7	[illegible]	[illegible]	08	1.3	09	3.0	08	4.0	08	2.3	09	2.0	09	0.9
2	11	2.0	11	2.5	16	1.4	12	3.3	12	2.4	11	2.0	12	2.3	10	3.2	11	2.2	11	3.9	09	1.9	06	3.8	07	3.1	08	0.7	09	1.5	09	2.2
3	11	1.7	11	1.8	16	1.9	12	3.0	14	2.9	11	3.3	10	1.8	10	2.9	11	2.8	11	[illegible]	10	1.8	08	2.2	08	3.4	08	2.1	14	1.3	11	1.8
4	11	1.8	11	2.3	16	1.1	13	2.5	12	2.6	10	1.8	13	0.9	10	2.6	11	2.4	10	3.8	10	2.2	10	2.0	09	5.0	08	2.9	14	2.0	11	1.4
5	11	2.0	10	2.7	16	2.1	13	2.7	11	3.0	11	2.7	10	1.8	10	4.2	11	2.6	11	3.4	10	2.5	10	2.4	12	3.5	08	1.7	12	2.2	11	1.4
6	11	2.5	10	2.5	16	2.4	12	2.6	11	2.7	11	2.2	08	2.6	10	4.5	11	3.0	12	3.2	11	2.5	11	2.2	11	4.7	08	2.7	12	2.2	11	1.9
7	10	2.9	10	3.7	16	1.5	12	3.4	11	2.7	11	4.0	12	1.9	10	3.6	11	3.1	11	4.4	10	3.5	10	4.0	11	3.0	08	2.4	12	1.9	11	1.9
8	09	4.3	09	5.4	13	2.8	12	4.4	09	5.1	10	3.3	10	4.1	09	5.5	11	6.2	10	6.1	08	3.6	10	5.1	07	4.0	08	2.6	08	2.0	10	2.2
9	09	3.4	09	5.4	12	3.8	13	4.8	09	6.1	11	5.2	09	4.5	09	6.0	12	7.2	10	7.7	09	5.5	09	5.7	09	4.8	08	4.5	09	4.4	11	2.3
10	09	4.7	09	5.7	11	4.2	11	3.8	07	5.8	12	6.5	09	4.8	09	5.3	12	7.3	07	5.0	09	6.0	12	5.7	09	4.8	06	3.7	11	3.5	08	3.7
11	11	4.4	09	5.7	10	4.4	11	3.2	08	4.4	10	7.1	09	5.6	06	6.0	11	7.8	09	5.8	09	5.9	09	6.6	08	5.2	08	4.6	10	4.7	08	3.7
Noon	07	4.4	12	6.0	12	4.7	17	1.8	09	5.9	11	6.8	08	5.3	10	5.5	10	7.8	07	6.5	09	5.1	09	6.2	09	4.8	09	4.2	09	4.2	11	4.3
13	07	4.6	10	6.6	10	5.2	d0	2.8	09	6.2	09	6.9	09	5.6	08	5.5	11	8.1	09	[illegible]	09	4.5	09	6.7	09	4.5	07	4.3	08	4.4	08	3.2
14	07	4.5	11	5.2	10	6.2	12	4.4	10	6.3	09	5.3	10	5.2	09	5.6	09	8.2	09	7.0	08	4.6	11	6.6	09	5.0	07	4.8	07	4.0	12	2.4
15	09	4.3	13	5.4	12	6.6	13	5.4	09	6.2	10	7.7	11	5.5	10	6.3	10	8.0	08	6.1	10	5.4	09	5.6	09	5.4	07	4.9	10	3.3	d21	1.6
16	08	4.9	10	5.1	12	5.9	12	4.9	09	6.3	09	5.8	11	4.6	11	6.3	12	[illegible]	12	5.5	09	4.9	09	5.7	07	2.1	10	4.7	11	3.8	19	1.5
17	09	3.8	12	4.4	11	5.5	10	4.9	11	5.1	11	5.1	12	3.8	09	5.7	09	[illegible]	09	5.2	10	4.3	08	4.8	09	2.2	07	4.4	09	3.9	13	2.4
18	11	2.7	11	3.1	12	3.4	12	3.1	10	3.1	10	3.8	10	3.3	11	4.6	10	5.5	09	4.4	11	4.0	10	5.1	09	3.0	08	3.0	09	3.6	10	2.1
19	11	2.7	11	1.3	12	2.7	12	3.6	10	2.9	10	3.2	11	2.6	11	3.3	10	5.9	11	3.4	11	3.4	10	3.6	07	2.6	09	2.7	09	2.4	10	1.4
20	10	3.5	11	0.5	12	2.1	13	3.1	11	2.2	10	2.4	11	2.9	12	2.9	10	4.4	10	3.8	10	3.4	08	3.5	09	3.4	09	2.5	09	2.0	12	1.8
21	10	3.2	11	0.9	11	2.2	13	2.4	11	2.0	10	2.9	11	2.9	10	2.5	10	5.4	10	4.7	10	3.5	09	4.1	09	3.4	09	2.1	09	2.1	12	1.7
22	10	3.2	11	0.9	11	2.2	13	2.4	11	2.0	10	2.9	11	2.9	10	2.5	10	5.4	10	4.7	10	3.5	08	3.8	08	2.4	09	1.4	09	1.4	12	1.9
23	10	2.2	11	1.2	12	2.3	12	2.0	11	2.2	09	2.2	10	3.2	12	3.6	11	6.1	07	4.4	11	3.1	10	4.1	08	3.0	09	2.0	09	1.6	12	2.0

Hour \ Day	17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		Mean Velocity
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	
Mid-night	[illegible]	1.3	10	1.6	12	1.7	12	1.3	13	2.2	12	2.2	[illegible]	1.3	[illegible]	1.8	09	2.5	10	1.7	[illegible]	1.6	16	1.5	13	1.0	13	1.4	12	1.9	2.2
1	[illegible]	.5	10	1.1	12	2.1	13	1.6	12	1.5	12	1.9	11	1.8	10	2.2	10	2.4	10	1.5	11	1.4	16	1.6	12	1.6	13	1.3	12	1.8	2.1
2	10	2.2	10	1.3	12	1.7	09	1.1	16	1.4	12	1.3	11	2.0	10	1.9	10	2.8	10	1.7	11	1.5	16	1.6	12	1.1	r01	1.4	11	2.6	2.1
3	11	2.1	10	1.8	12	1.6	09	1.1	14	1.7	12	0.9	11	2.2	10	1.9	09	2.5	10	1.7	11	1.8	16	0.7	12	1.2	d14	1.1	10	2.5	2.0
4	11	0.8	10	1.7	12	1.3	11	1.0	11	2.3	12	1.4	11	1.8	10	2.0	09	2.2	10	1.5	10	2.0	16	1.4	12	1.4	15	1.3	11	1.8	2.0
5	09	.8	10	1.5	12	2.0	11	0.7	12	2.2	12	1.4	11	2.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.1
6	09	1.4	10	1.9	12	1.7	14	3.0	16	2.0	12	1.6	11	2.0	10	2.9	08	2.8	10	1.8	07	2.0	15	2.3	12	1.1	15	0.8	11	1.6	2.4
7	10	2.1	10	1.3	12	2.0	15	2.7	13	1.7	12	1.1	11	3.0	11	2.6	08	2.6	10	1.4	07	2.0	15	2.4	12	1.0	15	1.7	11	1.6	[illegible]
8	10	3.3	08	1.8	08	2.6	13	3.3	10	3.9	10	2.3	10	3.3	09	3.8	08	4.0	05	1.8	06	2.9	14	3.3	16	1.5	12	2.2	10	2.4	[illegible]
9	10	2.9	08	2.2	08	3.0	13	4.7	12	4.4	11	2.7	06	4.4	07	3.3	08	4.4	05	2.5	02	2.7	14	1.8	17	1.5	10	3.4	05	2.5	[illegible]
10	07	2.1	05	2.2	08	3.6	14	4.9	11	4.9	11	2.4	06	4.9	07	4.6	09	4.5	04	3.0	02	3.6	d28	2.0	r25	2.4	03	[illegible]	08	2.4	4.2
11	06	3.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	06	4.9	09	4.7	06	5.0	04	3.1	d10	1.8	28	2.5	22	2.8	09	[illegible]	08	2.9	4.5
Noon	11	4.0	06	2.8	07	3.8	13	5.4	09	4.7	06	4.5	04	3.8	08	4.8	06	5.2	03	3.6	09	1.9	29	3.6	25	3.0	05	3.1	05	3.8	4.6
13	07	4.0	07	2.9	06	4.3	14	5.9	12	4.9	07	3.5	08	6.1	06	5.2	07	4.7	01	4.0	11	1.2	27	3.3	30	3.8	09	3.6	08	2.2	4.7
14	07	3.6	07	3.5	d18	3.6	13	5.8	12	5.3	08	2.5	06	5.5	08	5.1	07	5.1	03	3.8	18	1.3	26	3.9	25	3.4	09	3.5	d16	1.2	[illegible]
15	08	2.4	r08	2.6	24	3.6	13	7.0	09	6.0	07	1.9	06	5.1	09	5.4	08	4.9	32	3.5	18	1.2	29	2.8	28	3.6	08	3.3	d29	1.8	4.6
16	11	2.5	[illegible]	1.9	26	1.8	13	6.6	09	5.5	07	2.3	09	4.4	03	4.9	06	4.4	01	3.5	18	1.2	01	2.2	23	4.0	08	1.8	d08	1.8	4.1
17	10	2.4	.9	2.4	[illegible]	1.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	4.4	08	4.5	07	4.3	r14	3.1	d26	1.6	04	2.7	r07	2.5	06	1.8	05	1.1	3.8
18	10	1.8	22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	4.4	09	4.0	07	2.7	13	2.0	26	1.0	d14	2.7	07	1.1	14	1.2	07	1.6	3.0
19	10	1.5	23	0.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	09	3.8	08	2.9	07	1.8	13	1.1	26	1.8	14	4.4	07	1.8	14	1.0	07	1.5	2.6
20	10	1.1	17	1.3	28	1.1	13	5.6	15	2.3	11	1.8	10	2.4	08	2.3	07	1.6	13	1.3	26	1.6	12	4.5	16	2.1	11	1.6	11	1.8	2.5
21	10	1.4	17	1.8	28	1.2	12	3.9	15	3.3	11	2.1	10	1.8	09	3.2	07	1.8	13	1.3	26	1.2	12	2.5	16	1.9	11	1.2	11	1.5	2.4
22	10	1.0	12	2.1	28	1.7	13	3.1	15	2.1	11	1.8	10	2.1	09	3.1	07	1.9	13	1.8	26	1.1	13	1.9	16	2.1	11	2.0	11	1.8	2.3
23	10	1.7	12	1.8	r15	2.0	13	2.7	13	2.1	11	1.6	10	2.1	09	3.1	10	1.5	13	1.3	r16	1.3	13	1.6	11	2.1	11	2.2	13	1.8	2.4

TABLE XIII - THE FREQUENCY (NUMBER OF OBSERVATIONS) OCTOBER, 1942

Hour	Force (0-12) 8 or above	4 to 7	0 to 3	N.	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
3	-		31	-	-	-	-	5	7	13	4	2	-	-	-	-	-	-	-
9	-	5	25	-	1	2	1	14	3	8	1	1	-	-	-	-	-	-	-
15	-	10	21	1	-	-	1	13	5	5	-	-	1	1	-	1	-	3	-
21	-	-	31	-	-	-	-	6	8	12	-	3	-	-	-	-	-	1	-
Total				1	1	2	2	38	23	38	5	6	1	1	-	1	1	4	-

TABLE XIVA - RAINFALL AT EVERY HOUR OF THE DAY AT THE METEOROLOGICAL STATION, VACOAS, FOR OCTOBER, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm																														mm
1	..	..	..	..	..	0.1	0.2	0.1	..	..	..	0.5	.0	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	0.4	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..
3	..	0.5	..	..	..	0.6	..	..	..	0.2	..	0.8	2.3	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	..	0.2	..	..	..	1.7	0.1	..	..	..	..	..	0.5	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	2.2	..	..	..	0.9	..	..	..	0.2	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	0.3	..	..	1.0	0.5	..	0.1	0.4	1.3	0.2	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	..	..	0.3	0.7	..	..	..	0.1	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	2.3	0.1	..	..	0.1	..	..	0.2	0.3	..	0.2	..	..	..	..	..	0.3	..	..	..	..	..	..	0.1	..	..	..
9	..	..	..	..	0.5	..	..	..	..	..	0.2	..	..	0.1	0.1	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..
10	..	..	..	..	1.3	..	..	..	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	0.1	..	..	1.1	..	..	..	..
12	..	..	..	..	0.3	..	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10.4	..	..	0.2	..
13	..	..	..	..	..	..	..	..	..	0.3	1.3	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	6.0	..	..	0.2	..
14	..	..	..	..	..	..	..	..	..	0.2	0.4	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	15.7	..	..	..	..
15	..	..	..	..	..	..	0.2	0.2	..	0.6	0.1	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	1.2	..	..	0.2	..
16	..	..	..	..	..	..	..	..	..	1.1	0.6	..	0.3	..	..	..	..	..	..	..	..	..	..	1.0	..	..	0.6	..	..	..	..
17	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	2.4	..	..	0.4	..
18	..	..	..	..	..	..	..	..	..	0.3	0.1	0.2	0.1	..	..	..	..	..	..	..	..	..	..	1.3	..	0.2	..	..	..	0.8	..
19	..	..	..	..	..	..	0.2	..	..	0.1	0.1	0.7	0.3	..	..	..	..	..	..	..	..	..	..	..	..	3.0	0.2	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	0.2	0.3	0.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	..	..	0.2	0.2	2.8	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	..	..	..	..	..	0.3	0.2	..	..	..	..	..	1.0	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	0.2	..	0.6	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE XIVB - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY, FOR OCTOBER, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm																													mm	mm
1	..	..	..	..	..	..	..	..	..	..	0.2	..	..	1.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	0.4	..	2.5	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	0.3	..	..	..	0.3	0.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..
4	..	..	..	..	..	0.8	..	..	..	0.2	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	1.3	..	..	..	..	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	..	..	..	0.4	..	..	..	..	..	1.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	1.9	..	..	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	0.3	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.1	..	..	..	..
10	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	3.4	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	2.7	..	..	..	..
12	..	..	..	..	0.3	..	..	..	..	..	..	..	1.5	..	..	..	..	..	..	..	..	..	..	..	..	..	2.8	..	..	..	..
13	..	..	..	..	0.1	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	0.3	..	..	7.0	..	..	..	..
14	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.7	..	..	..	..
15	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	1.1	..	..	..	..
17	0.4	..	..	..	..	..	..	..	..	0.1	..	0.4	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..
18	..	..	..	..	..	..	..	..	..	..	0.2	0.7	..	..	..	..	..	..	..	..	..	..	..	..	..	5.4	0.2	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	0.2	..	..	..	0.1	..
20	..	..	..	..	..	..	..	..	..	..	0.1	0.3	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	..	..	0.1	0.3	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	0.4	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	..	..	..	..	0.4	0.2	..	..	..	0.4	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE XV - TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR OCTOBER, 1942

RIVER SYSTEM	STATIONS	Approximate Altitude in feet	Total Fall		Normal in Inches	Number of Days
			Inches	Millimetres		
1	Mare Seche	20	1.68	42.7	2.16	8
	St Antoine	50	1.21	33.3	1.48	6
	Bel Mont	50	1.51	38.4	1.68	8
	Poudre d'Or	20	2.02	51.3	1.74	9
	Mon Loisir S.E.	300	2.99	75.9	2.28	11
	Forbach	300	1.23	31.2	2.06	7
	Couroupa	...	1.29	32.5	1.86	5
	Labourdonnais	290	1.77	45.[illegible]	2.01	7
	Mapou Water Office	...	...	...	...	..
	Beau Sejour	300	2.92	74.2	2.49	8
	Mont Piton	650	2.70	68.6	2.52	9
	Mon Choix	700	3.23	82.0	2.27	6
	Antoinette	640	3.64	92.5	2.33	9
	Mon Songe	620	...	...	2.53	..
	Botanical Gardens	325	2.57	65.4	2.09	16
	The Observatory	179	2.70	68.7	1.67	1[illegible]
	Solitude	175	...	...	1.18	..
	St Andre Cour	90	...	...	1.43	..
	La Nicoliere	...	5.74	145.8	2.07	17
	California	...	6.43	163.3	...	14
	Australia	...	4.72	119.9	...	13
2 & 3	Union Regnard Flacq S.E.	600	2.63	66.8	2.39	12
	Constance la Gaiete	100	2.99	75.9	2.21	11
	Rich Fund	600	4.23	107.4	2.64	9
	La Joffette	...	3.05	77.5	...	9
	Belle Vue Allendy	...	2.78	70.6	2.70	12
4	Sans Souci	900	5.10	129.5	5.51	18
	Beau Champ G.R.S.E.	20	2.41	61.2	2.32	18
	Olivia	400	4.32	109.7	4.13	19
	Trois Ilots	...	...	...	...	..
	Belle Rive	400	4.81	122.2	5.11	22
	Sebastopol	700	...	...	...	..
	Bonne Veine	400	6.48	164.6	5.05	21
5	Rose Belle	850	6.[illegible]	16[illegible].6	6.17	22
	New Grove	650	6.21	157.7	6.36	18
	Mon Tresor	...	3.72	94.5	...	12
	Mon Desert Carie	75	1.64	41.7	2.80	9
	Ferney	20	3.51	89.2	3.5[illegible]	16
	Sauveterre	...	2.22	56.4	...	11
	Tivoli	1300	4.89	124.2	5.69	19
	La Flora	1050	5.77	146.6	5.28	19
	Riche Bois	650	3.63	92.2	4.08	7
6	Britannia Estate	700	3.21	81.5	4.35	17
	Savannah Mill	200	1.75	47.0	2.79	15
	St Aubin	300	2.50	63.5	2.75	11
	St Avold	900	4.00	101.6	4.33	22
	Colmar	400	2.60	66.0	3.35	12
	Union S.E.	...	3.34	84.8	2.31	8
	Fontenelle	320	2.36	59.9	2.92	7
	Choisy	200	2.56	65.0	2.30	7
	Beaubois	...	3.23	82.0	...	16
	Bel Air	...	2.25	57.2	2.53	3
	St Felix	...	1.90	48.3	...	3
7, 8, 9 & 10	Bel Ombre	40	1.46	37.1	2.22	11
	Beau Champ B. du Cap	70	1.23	31.2	2.15	12
	Frederica	...	1.58	40.1	2.76	11
	Pierrefonds	...	2.05	52.1	1.83	9
	Ste. Marie	...	1.74	44.2	...	11
	Hussonia	...	...	...	...	..
11	Curepipe Gardens	1840	3.95	100.3	4.64	19
	Mare aux Vacoas (G.End)	1850	6.53	165.9	5.87	23
	Mare aux Vacoas (Arnaud)	1830	7.13	181.1	5.79	24
	La Marie Filter Beds	1700	5.19	131.8	3.40	20
	Sophie	...	...	...	...	..
	Reunion	1420	3.83	97.[illegible]	2.97	11
	Aerological Station	1393	3.84	97.[illegible]	2.65	20
	Phoenix	...	3.71	94.[illegible]	...	6
	Quatre Bornes	...	2.75	69.9	...	9
12	Quatre Bornes Board	1090	2.71	67.8	1.57	6
	Le Reduit Dep. of Agric.	1000	2.59	65.8	1.75	20
	Alma	1460	6.13	155.7	4.68	11
	Bagatelle	1250	5.50	139.7	[illegible]	12
	Highlands	1300	3.54	89.9	[illegible]	12
	Trianon	950	2.20	55.9	[illegible]	10
	Val Ory	1100	...	...	...	..
	Bassin	...	2.11	53.6	[illegible]	4
	Hermitage	1450	4.45	113.0	[illegible]	12
	Ebene	...	2.85	72.4	...	11
	Bega	...	2.36	39.9	...	11
	Mon Reve	...	3.66	93.0	...	11
	Mont Pevril	...	2.70	68.6	...	11
	Minissy	1150	4.36	110.7	2.15	11
	Plaisance	...	1.96	49.8	...	8
	La Ferme	350	1.67	42.4	1.20	1
13	Line Barracks	...	1.87	47.4	...	11
	Michel[illegible]	...	[illegible]	[illegible]	[illegible]	[illegible]

TABLE XV. - PILOT BALLOON OBSERVATIONS FOR THE MONTH OF OCTOBER, 1942

Date	Time	Surface		200 metres		500 metres		750 metres		1,000 metres		1,500 metres		2,000 metres		2,500 metres		3,000 metres		3,500 metres		4,000 metres	
		Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction									
		°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.
1	09.27	094	9.7	097	10.1	109	6.2	102	5.2	118	[illegible].2	107	6.9	103	4.1								
2	09.22	094	6.2	096	5.6	100	5.7	115	5.2	131	[illegible].4												
[illegible]	09.07	153	7.4	154	6.6	162	5.1	143	5.7	145	[illegible].6	113	10.3	117	18.7	111	14.7						
4	07.48	141	6.3	135	3.4	147	2.8	190	1.7	223	[illegible].1	215	2.[illegible]	161	5.5	126	3.9	161	3.[illegible]				
5	09.21	098	6.1	122	3.5	102	7.7	096	9.8	096	[illegible].5	103	11.1	100	12.8								
6	09.30	082	5.2	100	4.3	112	8.0	105	18.2	097	[illegible].9	098	14.8										
7	09.43	108	10.6	112	16.3	125	13.4	116	8.6	315	[illegible].9	105	14.1										
8	08.58	111	10.3	105	5.8	098	6.3	095	10.2	095	[illegible].8	100	14.1	103	19.7								
9	09.11	135	35.6	132	14.2	122	2.6	114	2.9	025	[illegible].7	111	5.2										
10	0[illegible].18	117	5.0	094	5.2	108	5.2	0[illegible]5	8.8	088	[illegible].5												
11	[illegible]	099	4.6	077	6.7	082	10.9	0[illegible]	9.5	064	[illegible].3	072	19.4										
12	[illegible]	107	[illegible].8	101	15.8	110	18.3	1[illegible].0	8.1	112	[illegible].2	113	11.2										
13	[illegible]	076	7.2	089	9.1	086	12.4	085	10.6	091	[illegible].7	118	4.6										
14	09.30	110	7.5	097	3.2	092	5.6	085	6.1	086	[illegible].8	084	6.3										
15	09.02	087	7.0	078	5.3	059	7.4	056	8.9	070	[illegible].6												
16	08.55	101	2.6	103	6.9	100	8.4	090	5.2	134	4.0	136	4.3	152	6.4								
17	09.08	072	4.6	081	4.6	107	5.9	113	6.1	106	3.3	095	2.3	108	5.1								
18	09.03	043	4.9	055	2.9	098	2.2	072	3.9	080	[illegible].1												
19	09.28	060	4.0	070	7.5	082	6.5	090	5.7	105	[illegible].3												
20	09.14	143	7.1	134	3.4	159	3.0	147	3.4	160	[illegible].3	165	1.9	122	1.9								
21	[illegible]	137	6.9	132	8.1	127	7.1	122	6.5	132	[illegible].7	138	10.1										
22	[illegible].01	295	2.9	083	2.4	113	3.0	098	4.2	083	3.2												
23	08.59	066	7.3	074	5.8	079	5.8	080	5.6	079	7.0	079	11.2										
24	08.53	072	[illegible].3	096	3.6	066	6.1	063	8.2	061	9.0	063	10.6										
25	08.32	084	[illegible].1	079	8.1	077	13.2	077	12.5	074	7.5	084	6.0										
26	09.55	029	[illegible]	030	3.6	031	5.4	050	4.8	066	3.7	083	2.2										
27	0[illegible].19	065	[illegible]	031	5.4	028	6.8	033	8.0	024	5.8												
28	[illegible].38	...	...	...	...	...	...	...	...	...	...	...	...										
29	09.02	...	...	...	...	...	...	...	...	...	...	...	...										
30	09.04	057	4.4	059	3.1	068	2.3	075	2.3	086	3.1												
31	...	...	...	...	...	...	...	...	...	...	...	...	...										

MAURITIUS
ROYAL ALFRED OBSERVATORY

LATITUDE 20° 5' 39"S., - LONGITUDE 3h 50m 12.6"E

RESULTS
OF
MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

NOVEMBER, 1942

N.R. Mc CURDY, B.Sc. F.R. MET.SOC.

DIRECTOR

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TABLE I - RESULTS OF MAGNETICAL OBSERVATIONS MADE DURING THE MONTH OF NOVEMBER, 1942

Month and Day 1942	Mean Declination (West)	Mean Horizontal Force (C.G.S. Units)	Mean Vertical Force (C.G.S. Units)	Daily Range + Declination	Daily Range + Horizontal Force (Units γ)	Daily Range + Vertical Force (Units γ)
NOV.						
1	14°23.7	.22416	.29989	5.7	26	17
2	23.4	413	989	...	39	18
3	...	413	989	...	39	18
4	...	413	989	...	39	18
5	23.3	440	982	8.7	44	23
6	24.3	434	982	5.3	29	16
7	24.3	435	983	6.0	46	21
8	...	432	983	...	55	23
9	...	426	980	...	29	23
10	...	...	982	...	..	12
11	23.6	...	983	11.5	..	23
12	24.0	425	982	10.0	13	28
13	24.3	428	984	9.5	50	13
14	24.1	423	983	8.5	16	22
15	24.6	424	...	5.5	20	..
16	24.5	430	...	6.3	20	..
17	23.8	...	...	7.8	..	..
18	24.2	...	...	8.0	..	..
19	24.0	435	...	7.5	31	..
20	24.5	429	...	8.6	60	..
21	24.4	419	985	8.8	31	30
22	24.2	422	982	7.2	26	32
23	23.4	424	984	10.7	68	30
24	23.9	379	992	12.0	109	19
25	24.6	391	...	9.0	39	..
26	24.2	400	...	9.0	42	..
27	25.2	402	993	10.5	31	21
28	24.1	398	994	11.3	56	17
29	24.4	403	996	6.8	37	16
30	24.6	429	991	8.0	44	26
Mean	14°24.15	.22419	.29986	8.39	40.4	21.7

Description of the Principal Magnetic Disturbances

Horizontal Force : 1st, 2nd and 3rd : slightly disturbed in parts 7th, 8th & 9th : slightly disturbed in parts. 9th 0h to 1.45h : Bay disturbance (20γ). 10th slightly disturbed at end. 13th & 14th : slightly disturbed at end. 20th slightly disturbed. 23rd & 24th moderately disturbed. Minor irregular fluctuations. 25th slightly disturbed isolated waves of minor importance. 26th slightly disturbed in parts. 27th one important positive wave (30 γ) centred at 0h 10m 28th very slightly disturbed in parts.

37441 : Mean Dip = 53° 12.98' : X = .21715 : Y = -.05576 : Z = .29986

+ The daily range is the difference between the greatest and least hourly values

TABLE II - RESULTS OF ABSOLUTE DETERMINATIONS OF THE MAGNETIC ELEMENTS DURING THE MONTH OF NOVEMBER, 1942

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d. h. m.	° '	d. h. m.		d. h. m.	° '	
6.14.47	14.22.0	5.10.00	.22465	6.14.56	53.11.56	.29979
13.13.13	14.20.0	9. 9.40	.22421	13.13.23	53.10.50	.29970
20.14.25	14.21.0	12. 9.46	.22417	20.14.36	53.11.31	.29966
		26. 9.38	.22408			
		30. 9.45	.22430			

TABLE III - MAGNETIC DECLINATION (WEST) AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

NOVEMBER, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
			*	*			+ 14°	*	@	@							
Midnight	24.3	24.0			24.6	24.0	28.7	[illegible]	24.5	24.0	23.7	24.0	24.0	25.0	24.3	23.7	Midnight
1	23.7	24.5			25.0	24.5	24.3	24.0	25.0		24.0	23.5	24.5	24.5	25.5	24.5	1
2	23.0	24.3			25.0	25.0	24.7		24.7		23.0	23.0	24.5	23.7	24.0	25.0	2
3	24.0	24.3			25.0	25.5	25.0				23.5	23.5	24.0	24.0	24.0	25.0	3
4	24.0	24.5			25.0	27.0	25.0				24.5	23.5	24.7	24.0	24.0	23.5	4
5	24.0	25.0			25.7	27.0	25.7				25.0	24.0	25.0	24.5	23.5	24.5	5
6	24.3	24.7		26.5	26.3	26.5	25.5	25.5			26.0	26.0	26.0	26.5	26.0	27.0	6
7	24.0	25.5	27.5	27.7	27.6	25.7	24.5	27.5	[illegible]		27.0	27.0	28.0	28.0	27.0	27.7	7
8	25.0	25.3	27.0	27.0	27.0	25.5	27.5	[illegible]	[illegible]		29.0	29.0	29.0	29.0	29.0	28.0	8
9	25.7	25.5	25.5	25.5	25.0	25.0	25.7	[illegible]	[illegible]		27.5	29.0	28.0	29.0	28.0	27.5	9
10	25.0	24.4	23.4	23.0	22.5	24.0	25.3	[illegible]	25.5		26.0	27.0	25.5	26.0	27.0	25.0	10
11	26.0	24.0	22.0	21.5	20.7	23.0	23.5	[illegible]	24.0		24.0	26.0	24.0	23.0	25.5	24.5	11
Noon	24.0	22.5	20.0	20.0	19.5	21.7	23.0	21.5	23.0		21.0	23.5	22.0	21.5	23.7	22.7	Noon
13	22.0	20.0	19.5	20.0	29.0	17.7	22.5	20.5	21.0		18.0	21.0	20.3	20.5	23.0	22.0	13
14	21.0	18.0	19.0	20.5	29.3	22.3	22.0	20.0	20.0	18.5	17.5	19.0	19.7	20.7	22.5	21.7	14
15	20.3	18.5	20.0	21.0	20.0	22.3	21.5	21.0	20.0	19.0	20.0	19.5	19.5	20.7	23.0	20.7	15
16	21.0	20.3	21.0	21.0	21.0	24.0	23.0	21.7	22.0	20.5	21.0	20.7	20.3	21.7	23.5	24.0	16
17	22.5	22.0	22.0	23.0	22.0	24.0	23.7	23.0	23.7	22.0	22.5	22.5	21.0	23.0	24.0	24.5	17
18	23.0	22.7	23.0	23.0	23.0	23.0	24.5	23.7	24.5	23.7	23.5	23.5	24.5	24.0	24.5	24.0	18
19	23.7	25.0	23.5	23.5	23.0	24.0	25.3	23.5	24.5	24.0	23.5	24.3	26.0	24.0	25.0	24.0	19
20	24.0	24.7	23.5	23.7	23.0	24.5	24.3	23.5	24.3	23.7	24.0	25.0	26.0	24.0	25.0	23.7	20
21	24.0	24.3	25.0	24.0	23.0	23.7	23.5	23.5	25.0	23.7	23.5	24.3	25.0	23.7	25.0	24.0	21
22	24.0	24.3	24.0	24.0	23.3	23.5	23.3	23.3	24.0	24.3	24.0	25.3	25.0	28.0	24.3	24.0	22
23	24.3	24.3		24.0	23.5	23.7	23.5	23.5	23.7	24.0	25.3	24.0	25.5	23.5	24.3	24.5	23

* gas light failed
@ clock out of order

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Mean	Hour \ Day
							+ 14°										
Midnight	24.7	25.0	25.3	24.0	25.0	24.3	23.7	24.7	23.5	24.0	24.3	25.3	25.0	24.5		24.3	Midnight
1	24.5	25.3	25.5	24.0	23.7	24.0	23.5	25.5	24.0	24.3	24.3	24.7	24.3	24.7		24.3	1
2	25.0	25.0	25.0	24.0	24.0	24.3	24.0	24.3	24.5	23.0	25.0	23.5	24.5	25.0		24.3	2
3	25.0	24.7	25.5	25.0	24.5	24.1	24.3	24.0	25.0	25.0	24.3	23.5	24.3	25.6		24.5	3
4	24.7	24.0	25.7	26.0	25.3	25.0	25.0	26.5	25.5	26.0	25.3	24.0	24.5	26.3		25.0	4
5	25.0	26.3	26.0	26.5	26.2	25.5	25.7	24.0	25.5	27.5	[illegible]	25.5	25.0	26.8		25.4	5
6	26.5	27.3	26.5	27.7	26.7	26.0	26.0	24.0	25.8	28.3	[illegible]	26.7	26.3	27.3		26.4	6
7	27.5	28.5	28.0	29.3	28.5	27.3	28.0	29.0	27.0	26.5	[illegible]	29.0	26.3	28.5		27.5	7
8	27.0	27.0	27.3	28.0	28.0	27.8	28.7	28.0	29.0	29.5	[illegible]	29.3	26.5	28.0		27.8	8
9	26.5	25.5	25.5	26.0	27.0	27.0	27.5	[illegible]	28.0	25.5	30.5	27.5	26.3	26.5		26.9	9
10	23.5	24.0	23.5	25.0	24.3	25.7	26.0	25.0	26.7	24.0	28.0	25.0	26.5	25.5		25.3	10
11	21.5	23.0	22.3	24.0	22.5	23.5	23.5	22.5	26.0	23.5	26.0	24.0	26.0	24.3		23.8	111
Noon	19.7	22.5	21.0	22.7	21.5	22.0	20.3	20.0	25.0	22.0	22.5	22.0	23.0	22.7		22.1	Noon
13	29.7	20.5	20.7	22.0	20.0	20.5	19.0	17.0	25.0	21.5	22.0	23.0	22.5	22.7		22.1	13
14	20.5	21.5	20.5	21.5	19.7	21.0	18.0	17.0	20.0	19.3	21.0	18.0	19.7	20.7		20.5	14
15	21.5	21.7	20.7	20.7	20.2	23.0	18.3	21.5	20.5	20.5	21.7	28.5	21.0	21.3		20.8	15
16	22.3	22.5	22.0	21.0	21.0	23.5	19.0	22.0	21.0	22.0	22.7	20.5	22.0	22.0		21.8	16
17	23.3	23.0	23.0	23.0	23.0	23.7	20.5	24.3	22.5	24.3	24.0	22.3	23.7	22.7		23.0	17
18	23.5	23.3	23.3	23.5	23.7	23.5	22.0	24.0	24.0	25.5	24.5	24.0	23.7	24.0		23.8	18
19	23.5	23.5	23.5	24.0	24.5	24.0	24.0	24.5	25.0	25.0	24.5	25.5	24.5	24.2		24.3	19
20	23.5	23.5	23.3	24.0	24.0	24.0	24.3	25.0	25.3	25.5	24.3	26.0	25.5	24.3		24.4	20
21	23.5	23.5	24.0	24.3	23.7	23.7	24.0	25.5	25.5	24.5	24.0	25.0	25.0	24.3		24.2	21
22	24.3	23.7	24.0	25.0	24.0	24.0	23.3	25.5	25.0	24.5	24.0	23.7	25.5	24.5		24.3	22
23	24.5	2433	23.7	25.7	23.7	24.0	23.5	25.0	25.0	25.0	24.5	25.3	25.0	25.3		24.4	23

TABLE IV - MAGNETIC HORIZONTAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature in the Magnet Chamber)

NOVEMBER, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
							.22000 + (C.G.S. UNIT)										
				*						*	*						
Midnight	407	421	417		433	446	431	431	430	425	423	430	427	415	420	429	Midnight
1	411	420	418		433	450	430	432	449		419	423	426	415	429	425	1
2	419	421	418		432	448	435	431	431		432	420	427	421	423	423	2
3	418	423	421		435	443	435	437	429		432	431	430	422	421	425	3
4	416	423	421		433	445	435	440	427		435	429	436	423	429	441	4
5	420	425	420		431	435	433	443	427		435	427	432	423	430	440	5
6	419	421	415	422	432	430	431	445	425	445	438	426	435	421	432	433	6
7	424	420	416	419	437	433	430	451	421		435	420	435	427	425	433	7
8	429	424	422	417	445	432	438	460	422		432	419	432	423	429	437	8
9	[illegible]29	433	429	432	453	431	440	440	425		430	418	435	425	430	433	9
10	[illegible]24	430	429	445	462	435	442	447	426		429	420	443	423	429	432	10
11	[illegible]19	430	428	435	469	437	440	423	457		432	420	443	425	429	435	11
Noon	413	431	431	431	467	441	459	423	421		439	430	442	429	429	440	Noon
13	417	425	429	432	457	435	453	427	421			425	445	431	429	440	13
14	416	414	420	430	452	436	450	423	423	455		430	438	430	427	437	14
15	403	400	407	413	445	436	440	423	425	455		428	437	425	425	430	15
16	412	[illegible]93	400	410	438	430	430	417	425	447	421	427	439	423	419	430	16
17	405	387	393	417	433	427	413	405	420	440	415	425	438	420	420	426	17
18	403	383	395	419	427	426	440	415	423	399	428	425	413	418	425	424	18
19	410	392	392	423	425	423	413	425	422		425	425	395	419	415	423	19
20	408	410	397	425	428	421	415	425	422	418	423	424	400	419	412	423	20
21	421	[illegible]0	400	425	429	421	422	425	427	412	419	422	410	425	415	423	21
22	416	390	401	427	430	427	427	429	425	412	422	421	407	427	417	425	22
23	415	400	400	425	432	430	431	433	423	420	423	430	413	430	425	421	23

* [illegible]istering light failed

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Mean	Day / Hour
						.22000 + (C.G.S. UNIT)											
	*	*															
Midnight	427		428	439	409	421	429	409	411	390	420	410	380	414		420	Midnight
1	425		426	438	411	422	431	402	390	407	400	402	387	409		419	1
2	430		431	445	417	422	431	419	389	423	400	413	391	416		422	2
3	[illegible]		435	450	419	422	436	423	390	411	417	415	400	421		424	3
4	431		431	442	416	421	441	421	390	411	405	410	421	405		425	4
5	432		429	440	418	420	439	425	393	408	410	401	403	421		424	5
6	432		433	436	422	421	440	427	401	412	401	412	417	424		424	6
7	435		430	435	420	427	445	410	398	403	402	417	403	423		423	7
8	437		429	440	417	429	450	400	391	404	402	417	405	421		425	8
9	440		435	443	416	421	440	378	401	400	403	413	411	425		424	9
10	438		441	451	420	435	445	369	409	413	412	414	403	431		427	10
11			450	451	432	436	443	352	400	410	417	405	407	440		428	11
Noon		419	457	455	440	433	450	340	394	399	410	407	409	449		428	Noon
13		408	457	451	439	423	440	328	385	401	393	403	401	451		424	13
14		411	451	431	435	420	433	331	389	389	391	400	401	453		421	14
15		415	432	419	420	415	420	350	378	382	390	380	395	451		414	15
16		420	431	403	410	410	407	351	382	387	389	377	400	445		411	16
17		421	433	412	412	412	411	335	381	385	397	374	407	437		408	17
18		421	431	407	413	413	390	345	383	384	397	361	400	435		407	18
19		415	431	403	411	418	382	360	370	385	400	385	395	432		406	19
20		422	429	408	417	420	394	376	395	381	401	373	400	430		409	20
21		430	430	400	415	418	397	380	365	392	401	397	410	418		410	21
22		428	431	395	415	428	408	383	390	393	402	399	415	409		412	22
23		427	430	405	417	427	4153	385	405	395	407	381	410	415		415	23

* driving out of order

TABLE V - MAGNETIC VERTICAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

NOVEMBER, 1942

.29000 + (C.G.S. UNIT)

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	993	989	991	991	984	983	983	985	988	984	987	983	984	988	986	984	Midnight
1	992	990	991	984	991	982	983	985	983	984	986	984	984	987	986	986	1
2	991	989	992	991	986	983	983	984	984	984	985	983	984	986	987	986	2
3	992	989	992	992	987	986	983	986	985	985	985	982	983	985	987	986	3
4	992	989	992	992	987	988	984	987	985	985	986	983	983	986	986	985	4
5	991	989	992	992	988	989	986	988	986	985	986	985	984	986	987	986	5
6	990	989	994	993	990	989	986	990	987	986	989	989	985	990	989	989	6
7	990	990	996	994	991	971	990	993	988	987	991	993	990	992		991	
8	993	990	990	992	985	973	988	992	987	987	992	[illegible]	989	989		985	8
9	994	991	987	983	977	970	990	987	985	987	988	993	985	985		977	9
10	993	990	987	974	970	983	980	978	983	987	982	987	982	977			10
11	991	990	986	971	968	977	977	973	978	986	977	984	980	976			11
Noon	987	987	983	972	968	973	973	972	973	980	973	973	981	973			Noon
13	981	983	979	972	971	974	969	970	965	974	969	969	978	970	978		13
14	977	979	978	973	973	978	972	972	965	967	970	968	979	976	978		14
15	978	980	983	977	978	981	977	974	967	968	973	973	977	979	980		15
16	982	986	988	983	983	983	984	977	973	972	979	974	978	983	982		16
17	987	989	992	983	984	985	987	982	977	976	984	977	979	984	982	983	17
18	989	992	994	983	984	987	988	983	979	984	982	979	[illegible]	983	980	983	18
19	990	993	993	984	985	985	989	982	981	984	983	980	938	983	982	981	19
20	990	990	993	983	984	986	988	983	982	983	983	981	988	983	982	983	20
21	989	992	993	983	984	986	987	984	983	988	983	983	987	983	983	983	21
22	989	994	991	985	984	984	987	986	983	989	986	983	987	985	984	984	22
23	989	992	991	986	983	984	986	985	983	988	986	983	987	984	983	984	23

.29000 + (C.G.S. UNIT)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Mean	Day / Hour
Midnight	985				[illegible]	987	985	990	994		995	996	[illegible]	997		989	Midnight
1	985				987	985	984	993	993		994	995	[illegible]	997		988	1
2	985				987	985	984	991	993		995	993	999	997		988	2
3	985				988	987	984	994			993	993	[illegible]	998		989	3
4	985				988	987	984	994			993	993	998	998		989	4
5	986				989	989	985	992			995	996	997	999		989	5
6	987				990	962	989	988			999	997	998	999		989	6
7	988				994	966	994	999			1003	1002	998	999		991	7
8	984				997	968	990	1002			1004	1000	996	994		991	8
9					994	994	986	997			999	993	996	994		989	9
10					980	985	980	993	995		990	986	999	991		985	10
11					973	978	975	990	990	988	987	986	994	987		981	
Noon					967	975	967	987	984	985	983	985	989	980		977	Noon
13				979	974	964	983	981	977	977	984	986	984	975		975	13
14				966	973	976	970	983	980	972	989	989	987	973		976	14
15				975	984	975	985		976	991	990	991	977	968		979	15
16				972	983	986	980	986		979	993	996	995	984		983	16
17				977	987	985	984	994		988	992	997	999	988		986	17
18				983	987	986	987	994		990	990	998	997	992		987	18
19				984	988	986	990	994		993	990	997	996	992		988	19
20				987	987	986	993	993		993	990	998	996	992		988	20
21				987	987	987	993	996		993	992	994	997	[illegible]		988	21
22				987	987	987	993	996		993	992	994	997	[illegible]		988	22
23				993	987	986	990	996		995	996	1000	[illegible]	[illegible]		989	23

TABLE VI - RESULTS OF METEOROLOGICAL OBSERVATIONS MADE AT THE AEROLOGICAL STATION, VACOAS (424.5 metres above mean sea level) DURING THE MONTH OF NOVEMBER, 1942

Month and Day 1942	Observations at 10 a.m.									Temperature of the Air							Rainfall		Duration of Bright Sunshine	Percentage of Possible Sunshine
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat. = 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud Scale (0-10)	3h	9h	15h	21h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Casella Pluviograph	Duration		
NOV.	mbs	°C	°C	°C	%	mbs		m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms	mins	hrs	%
1	968.6	20.9	4.3	13.5	63	15.5	75	1.3	7	13.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible].9	...	...	7.3	58
2	969.3	22.5	4.7	14.6	61	16.6	90	1.1	2	13.3	[illegible]	23.2	[illegible]	20.5	12.9	13.6	...	...	9.2	72
3	969.5	24.0	5.1	15.6	60	17.7	100	1.8	4	16.7	23.1	23.9	18.0	26.0	15.2	10.8	...	...	8.4	66
4	969.6	23.6	4.9	15.5	61	17.6	45	2.2	3	16.3	23.0	23.0	18.1	26.0	15.0	11.0	...	...	5.9	47
5	969.8	23.0	4.7	15.2	62	17.3	70	4.9	7	16.2	22.5	23.9	18.6	25.6	16.1	9.5	0.2	10	11.1	86
6	969.9	23.8	5.3	15.0	58	17.0	25	2.7	6	17.0	23.2	23.0	18.5	27.2	16.8	10.4	...	...	8.0	63
7	969.9	24.5	5.0	16.4	61	18.7	CALM		4	16.0	23.8	23.1	19.0	26.8	15.6	11.2	...	...	6.3	49
8	969.2	23.1	4.2	16.2	65	18.4	CALM		5	18.1	22.8	25.2	18.9	27.2	17.7	9.5	...	...	8.5	66
9	967.7	24.4	4.3	17.6	66	20.1	360	2.9	6	17.9	23.8	24.9	19.1	26.8	17.4	9.4	...	...	9.9	77
10	968.3	22.1	2.4	18.3	79	21.0	320	0.7	9	18.2	21.8	23.9	20.5	26.7	17.8	8.9	0.7	25	1.4	11
11	968.7	24.7	4.8	17.0	63	19.4	CALM		7	19.8	24.0	22.9	19.8	25.7	18.9	8.8	0.1	5	3.7	29
12	968.9	22.8	2.8	18.3	76	21.0	CALM		9	16.1	22.0	21.0	18.7	25.5	16.0	9.5	8.5	90	3.2	25
13	969.1	21.9	2.3	18.3	80	21.0	105	4.5	9	19.0	21.5	23.4	18.2	25.1	18.8	6.3	...	...	9.5	73
14	968.4	24.0	5.5	14.9	57	16.9	35	0.9	5	15.7	23.2	24.0	19.3	26.7	15.7	11.0	...	...	7.4	57
15	968.7	23.7	3.0	19.0	75	22.0	350	3.1	6	18.6	23.0	25.3	19.7	27.0	18.6	8.4	...	...	10.9	84
16	970.3	24.9	5.2	16.7	61	19.0	240	1.8	5	15.8	24.0	24.1	18.8	28.0	15.8	12.2	...	...	9.4	73
17	972.4	24.7	5.3	16.1	59	18.3	45	2.4	6	16.0	24.1	24.6	19.8	27.2	15.8	11.4	...	...	9.6	74
18	972.5	24.6	4.9	16.7	61	19.0	125	2.0	2	18.4	24.2	24.5	20.6	27.6	18.2	9.4	...	...	8.9	68
19	972.6	21.5	1.2	19.6	89	22.8	115	5.6	10	19.5	23.3	22.8	20.0	23.6	18.6	4.7	6.0	100	3.1	24
20	972.3	23.9	3.4	17.5	72	20.0	90	7.6	3	18.9	22.4	23.5	19.2	25.1	18.3	6.8	...	...	11.1	85
21	971.7	23.1	5.6	13.5	55	15.5	130	2.7	2	17.6	23.0	23.6	19.1	26.2	17.1	9.1	...	...	11.6	89
22	970.3	24.6	5.0	16.5	61	18.8	CALM		6	18.1	23.4	20.3	18.5	26.2	17.8	8.4	6.1	150	4.7	36
23	969.0	24.2	4.0	17.8	68	20.4	CALM		8	18.0	23.5	21.5	20.0	25.0	17.2	7.8	7.0	140	2.3	18
24	968.8	23.7	3.6	18.0	70	20.6	CALM		6	18.1	23.4	24.5	20.4	27.3	18.1	9.2	...	...	6.3	49
25	969.5	24.6	3.6	18.9	70	21.8	CALM		8	19.2	23.2	22.1	20.6	26.8	19.0	7.8	0.2	15	3.8	30
26	968.9	24.0	3.3	18.8	73	21.7	CALM		9	19.4	23.6	19.9	19.0	26.3	19.0	7.3	[illegible].6	245	0.3	3
27	967.0	23.9	3.1	19.2	75	22.2	CALM		8	19.2	23.2	21.4	20.1	26.3	19.0	7.3	[illegible].1	205	4.5	35
28	967.5	24.0	3.2	19.1	74	22.1	45	1.5	8	19.5	23.1	22.2	19.4	25.4	19.2	6.2	11.8	115	2.9	22
29	968.8	24.2	4.2	17.5	66	20.0	70	5.6	3	19.8	24.0	24.4	20.4	25.6	19.4	6.2	...	...	11.4	87
30	968.1	24.2	3.6	18.5	71	21.3	115	6.3	6	20.1	23.8	23.4	20.9	26.4	19.8	6.6	1.3	35	10.1	77
Mean	969.6	23.5	4.1	17.0	67.0	19.5	...	3.1	6.0	17.7	23.1	23.2	19.2	26.2	17.3	8.9	[illegible].6	1135	7.02	54.0
Average	968.3	22.9	3.1	18.0	73.8	20.6	...	4.0	6.5	...	...	...	...	24.7	17.6	7.1	[illegible]	...	7.13	54.5
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

EXCESS OF CERTAIN ELEMENTS OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	+ 41.5 mbs	Amount of Rain	- 1.9 mms
Temperature of the Air	+ 3.5°C	Duration of Sunshine	+60.4 hrs
Vapour Pressure	+ 1.9 mbs	Mean of Maximum Temperatures	+ 2.4°C
Relative Humidity	- 7.4 %	Mean of Minimum Temperatures	+ 1.9°C
Velocity of Wind	+ 1.2 m.p.s.	Absolute Maximum Temperature	+ 2.1°C
Amount of Cloud	- 0.5	Absolute Minimum Temperatures	+ 2.1°C

Greatest Rainfall Intensity 5.. mms in 15 mins

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF NOVEMBER, 194[illegible]

Month and Day 1942	Atmospheric Pressure: Mean	Atmospheric Pressure: Excess above Average	Temperature of the Air: Daily Maximum	Temperature of the Air: Daily Minimum	Temperature of the Air: Daily Range	Temperature of the Air: Mean	Temperature of the Air: Excess above Average	Excess of Air Temp. over Evaporation Temperature	Temperature of the Dew Point: Mean	Temperature of the Dew Point: Excess above Average	Relative Humidity (Sat. = 100): Mean	Relative Humidity (Sat. = 100): Excess above Average	Vapour Pressure	Minimum on the grass	Rainfall: Amount	Rainfall: Greatest Day Precipitation	Rainfall: Duration	Amount of Evap.	Mean Amount of Cloud (0-10)
NOV.	mbs	mbs	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C	mms		min	mms	
1	1010.0	- 0.5	26.5	15.0	11.5	21.0	- 1.9	4.1	14.0	- 3.5	64	- 8	16.0	10.7	0.0		...	5.0	4.8
2	1010.4	- 0.1	27.3	15.4	11.9	21.5	- 1.5	3.4	15.8	- 1.8	70	- 2	17.9	12.3	0.0		...	5.9	4.1
3	1010.8	+ 0.4	27.0	15.5	11.5	21.5	- 1.5	3.1	16.4	- 1.2	73	+ 1	18.7	11.7	0.0		...	6.5	2.7
4	1010.2	- 0.2	27.3	16.3	11.0	22.0	- 1.1	3.4	16.4	- 1.3	71	- 1	18.7	12.6	0.0		...	5.1	2.7
5	1010.4	+ 0.1	27.0	18.0	9.0	22.5	- 0.6	3.4	17.0	- 0.7	71	- 1	19.4	13.3	0.0		...	6.4	2.9
6	1011.1	+ 0.8	28.2	17.9	10.3	23.0	- 0.2	3.4	17.6	- 0.2	72	0	20.1	14.9	0.0		...	6.9	5.5
7	1010.7	+ 0.5	29.4	17.7	11.7	23.4	+ 0.1	3.3	18.1	+ 0.2	72	0	20.8	13.3	0.0		...	5.4	2.9
8	1009.2	- 1.0	28.7	19.0	9.7	23.4	+ 0.1	3.3	18.1	+ 0.2	72	0	20.8	16.6	0.0		...	5.8	2.8
9	1008.0	- 2.1	29.8	19.1	10.7	24.1	+ 0.7	3.5	18.5	+ 0.6	71	- 1	21.4	15.7	0.0		...	9.6	3.0
10	1009.3	- 0.7	29.9	19.7	10.2	24.2	+ 0.8	3.0	19.6	+ 1.6	75	+ 3	22.8	16.8	0.0		...	5.8	4.5
11	1010.1	+ 0.1	28.9	20.0	8.9	24.0	+ 0.5	3.0	19.4	+ 1.3	76	+ 4	22.5	16.4	0.0		...	6.5	6.5
12	1009.6	- 0.4	28.0	19.1	8.9	22.8	- 0.7	1.9	19.9	+ 1.8	83	+ 11	[illegible]	15.1	5.4		150	3.8	6.3
13	1009.8	- 0.1	27.9	20.1	7.8	23.7	+ 0.1	3.3	18.5	+ 0.4	73	+ 1	21.3	19.1	0.0		...	4.4	[illegible]
14	1009.3	- 0.6	28.9	18.0	10.9	23.1	- 0.5	3.2	18.0	- 0.1	73	+ 1	20.6	14.3	0.0		...	7.4	[illegible]
15	1010.0	+ 0.1	30.1	19.9	10.2	24.4	+ 0.7	2.8	20.0	+ 1.8	76	+ 4	23.4	16.7	0.0		...	4.8	2.7
16	1012.3	+ 2.5	29.5	18.9	10.6	23.9	+ 0.2	4.1	17.4	- 0.8	67	- 5	19.9	15.9	0.0		...	7.8	1.5
17	1013.8	+ 4.0	29.8	18.2	11.6	23.8	0.0	4.2	17.1	- 1.2	66	- 6	19.5	15.1	0.0		...	9.4	1.6
18	1013.8	+ 4.0	29.6	19.3	10.3	24.6	+ 0.8	4.2	18.0	- 0.3	66	- 6	20.6	14.1	0.4		10	8.4	2.9
19	1013.9	+ 4.2	27.1	20.9	6.2	23.7	- 0.2	2.6	19.6	+ 1.0	78	+ 6	22.8	17.0	1.7		35	6.6	4.7
20	1013.5	+ 3.9	28.4	21.3	7.1	24.4	+ 0.5	4.3	17.6	- 1.0	66	- 6	20.1	18.7	0.0		...	6.6	3.5
21	1012.7	+ 3.2	28.1	19.7	8.4	23.6	- 0.4	4.3	16.6	- 2.1	65	- 7	18.9	14.4	0.0		...	8.7	2.2
22	1011.2	+ 1.8	28.3	19.3	9.0	22.8	- 1.2	2.6	18.7	0.0	78	+ 6	21.6	10.4	20.5		140	4.6	3.3
23	1010.0	+ 0.7	27.2	18.7	8.5	22.3	- 1.8	1.6	20.4	+ 1.6	90	+ 18	24.0	15.9	12.5		210	4.7	8.0
24	1010.2	+ 1.0	30.1	19.1	11.0	24.4	+ 0.2	3.0	19.8	+ 0.9	75	+ 3	23.1	11.8	0.0		...	2.8	3.5
25	1010.4	+ 1.3	30.1	21.2	8.9	25.0	+ 0.8	2.5	21.2	+ 2.3	79	+ 7	25.2	18.4	7.9		.0	5.7	7.9
26	1009.4	+ 0.5	27.2	21.1	6.1	23.1	- 1.2	1.3	21.1	+ 2.1	88	+ 16	25.0	18.5	48.8		220	5.8	9.6
27	1007.7	-1.1	29.0	20.4	8.6	24.6	+ 0.2	2.7	20.5	+ 1.4	78	+ 5	24.1	18.0	0.0		...	8.6	6.8
28	1009.1	+ 0.4	29.1	22.0	7.1	24.5	0.0	2.6	20.5	+ 1.3	78	+ 5	24.1	19.8	1.5		70	6.0	8.3
29	1010.1	+ 1.5	29.1	22.0	7.1	25.1	+ 0.6	3.9	19.0	- 0.2	69	- 3	22.0	19.3	0.0		...	4.7	4.8
30	1009.8	+ 1.3	29.0	22.0	7.0	25.1	+ 0.5	3.6	19.6	+ 0.1	71	- 2	22.8	19.4	0.0		...	8.7	3.2
Mean	1010.6	+ 0.9	28.6	19.2	9.4	23.5	- 0.2	3.2	18.5	- 0.2	73.5	+ 1.4	21.4	15.5	98.7		925	6.2	4.4
Average	1009.7	...	28.4	19.6	8.8	23.7	...	3.4	18.3	...	72.1	...	21.1	14.9	44.6		716	6.7	5.0
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		16	17	18

General Weather Conditions [illegible]

Anticyclonic conditions prevailed except on the 15th-16th, 23rd-25th and 27th-28th when extra-tropical depressions were moving east far to the south. There was no cyclonic activity.

Mean pressure was appreciably above normal. Rainfall was 221% of normal though its duration was only 129% but 49% of the total was recorded on one day. Wind velocity was 0.9 metres per second below normal. The other elements were near the normal.

TABLE VII (Cont'd) - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF NOVEMBER, 42.

Month and Day 1942	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the Soil: 10 Feet	Temperature of the Soil: 5 Feet	Temperature of the Soil: 2 Feet	Temperature of the Soil: 12 Inches	WEATHER (0h 3h 6h 9h 12h 15h 18h 21h 24h)
NOV.	hrs	%	m.p.s.	m.p.s	°C	°C	°C	°C	
1	10.1	79	1.9	- 1.5	24.0	24.0	24.6	23.8	b bc c bc
2	11.1	87	2.4	- 1.0	24.0	23.9	24.5	24.1	bc b bc b
3	6.7	52	2.4	- 1.0	24.0	24.0	24.6	24.5	bo b bc b
4	11.2	88	2.5	- 0.9	24.0	24.0	24.6	24.3	bo b bc b
5	12.3	95	2.6	- 0.8	24.1	24.1	24.7	24.8	b bc b
6	8.5	66	2.3	- 1.1	24.0	24.1	24.8	24.9	b bc c bc c bc
7	8.7	67	1.9	- 1.5	24.0	23.9	24.9	25.0	bo b bc b bo
8	11.9	92	2.2	- 1.2	24.0	24.1	25.0	25.1	bo b bc b bo
9	12.5	97	2.5	- 0.9	24.0	24.1	25.2	25.7	c bc b bo
10	4.7	36	2.1	- 1.4	24.0	24.1	25.4	26.1	bo bc bc b
11	6.1	47	1.8	- 1.7	24.1	24.1	25.5	25.9	bo c bc c bc bo
12	5.1	39	1.9	- 1.6	24.0	24.1	25.6	25.7	bo b bc cqro or ora o
13	12.6	97	3.3	- 0.2	24.0	24.1	25.6	25.6	o c bc b bo
14	7.0	54	2.2	- 1.3	24.0	24.1	25.7	25.9	bo b bo c bc b
15	12.1	93	2.4	- 1.1	24.0	24.1	25.7	25.8	b bc b bo
16	12.6	97	2.2	+ 1.3	24.0	24.1	25.7	26.2	bo b bo b
17	12.3	95	2.4	- 1.1	24.0	24.1	26.0	26.5	bo b bc b ba
18	10.2	78	2.8	- 0.6	24.1	24.2	26.1	27.1	bo b bc bro
19	4.5	34	3.8	+ 0.4	24.4	24.1	26.3	27.1	bo b oqogr bc c
20	12.1	92	5.1	+ 1.7	24.1	24.2	26.4	26.5	bcqo b bcqo b
21	8.1	62	2.9	- 0.5	24.0	24.1	26.4	26.7	b bc b bo
22	5.9	45	2.1	- 1.3	24.1	24.2	26.4	26.1	bo b bc crr cro b
23	2.8	21	1.6	- 1.8	24.0	24.2	26.4	25.8	bc orr c
24	12.1	92	2.1	- 1.3	24.1	24.2	26.2	25.5	b bo bc c b
25	9.6	73	2.0	- 1.4	24.1	24.3	26.2	26.2	oro cro bc cqot cr
26	0.9	8	1.4	- 2.0	24.0	24.4	26.2	26.5	oro o c or oRR ora o
27	9.7	74	1.7	- 1.7	24.1	24.4	26.4	26.0	b bc c o
28	5.7	43	1.9	- 1.5	24.1	24.4	26.4	26.8	c o c bc c cro
29	12.2	92	4.3	+ 1.0	24.1	24.7	26.5	27.9	bc b
30	11.6	88	3.7	+ 0.4	24.0	24.4	26.6	27.0	b bc b
Mean	9.04	69.4	2.48	- 0.94	24.04	24.16	25.69	25.80	
Average	8.80	67.7	3.42	...	24.40	24.70	25.45	26.07	
Column	19	20	21	22	23	24	25	26	27

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF NOVEMBER, 1942

Element	Highest	Date	Lowest	Date
Atmospheric Pressure	1015.4 mbs at 22.00	on 17th	1006.0 at 15.00	on 9th
Temperature of the Air	30.1°C		15.0°C at 04.40	on 1st
Daily Range of Temperature of the Air	11.9°C	on 2nd	6.1°C	on 26th
Temperature of the Dew Point	22.6°C at 13.00	on 26th	12.5°C at 05.00	on 1st
Relative Humidity	98.2 % at 13.00	on 26th	39.7% at 13.00	on 17th
Minimum on grass			10.4°C	on 22nd
Evaporation in 24 hrs	9.4 mms	on 17th	2.8 mms	on 24th
Vapour Pressure	27.4 mbs at 13.00	on 26th	14.5 mbs at 05.00	on 1st
Rainfall in 24 hrs	56.1 mms ending 15.00 on 26th			
Duration of Sunshine	12.6 hrs on 13th and 16th		0.9 hr	on 26th

Mean Day Temperature of Air 26.16°C Mean Night Temperature of Air 20.86°C

Wind Velocity 7.2 m.p.s. at 14 & 15 hrs on 20th 0.6 m.p.s. often

NUMBER OF DAYS OF

Mean Cloud Amount: 0	1 - 3	4 - 6	7 - 9	10	Rainfall: 0.1 - 0.9 mms	1.0 - 4.9 mms	5.0 - 9.9 mms	10.0-24.9 mms	25.0 & over	Lightning	Thunderstorm
...	15	10	4	1	1	2	2	2	1	...	...

TABLE VIII - ATMOSPHERIC PRESSURE IN MILLIBARS AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level). (The cistern of the barometer is 55.2 metres above mean sea level)

NOVEMBER, 1942

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	097	111	111	110	108	116	129	110	090	097	109	101	100	100	095	118	Midnight
1	095	102	106	103	102	110	123	103	087	092	102	095	096	098	090	116	1
2	091	100	101	098	100	104	118	089	080	089	100	091	092	093	084	113	2
3	090	096	100	097	103	092	109	093	076	083	100	087	093	091	086	112	3
4	090	095	101	093	095	101	106	093	079	086	100	087	093	091	090	113	4
5	091	096	107	098	100	103	106	096	080	089	100	090	096	092	091	117	5
6	098	101	111	101	103	110	110	100	081	093	101	092	100	097	121	100	6
7	100	110	114	110	110	116	114	106	089	098	106	100	104	101	101	128	7
8	108	113	118	113	114	120	116	110	089	098	106	102	104	101	102	130	8
9	109	113	119	114	116	121	114	106	088	098	105	104	107	100	104	130	9
10	[illegible]	110	116	113	117	118	111	100	082	096	101	107	107	099	104	128	10
11	103	105	111	111	112	114	110	096	079	091	100	101	103	096	102	123	11
Noon	099	100	108	101	106	111	109	089	073	090	096	100	101	092	100	121	Noon
13	091	097	101	097	100	106	095	081	070	072	093	093	090	097	119	093	13
14	090	090	099	092	093	101	091	076	065	073	090	090	089	085	092	112	14
15	090	089	097	091	090	097	090	071	060	080	090	088	086	081	090	111	15
16	091	090	096	091	089	096	090	071	061	080	090	086	086	081	090	110	16
17	[illegible]	097	100	093	091	099	090	078	066	081	091	090	088	093	082	115	17
18	[illegible]	102	108	100	098	106	099	081	071	090	099	097	093	085	100	12[illegible]	18
19	106	109	111	102	104	112	104	090	079	094	101	096	100	091	107	130	19
20	114	111	115	101	108	119	109	093	087	100	109	098	106	099	113	136	20
21	[illegible]	114	117	104	112	122	[illegible]	093	091	106	109	099	108	100	118	140	21
22	[illegible]	117	119	110	118	130	113	096	100	111	110	100	107	101	121	141	22
23	112	115	113	110	116	130	111	093	100	110	107	101	103	098	118	141	23

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Mean	Day / Hour
Midnight	137	149	148	149	142	130	112	110	112	110	110	090	104	110		113	Midnight
1	133	142	141	141	138	120	102	102	107	105	086	084	100	103		107	1
2	131	139	137	135	130	113	101	098	102	101	079	082	093	101		103	2
3	131	138	134	131	124	110	100	096	100	096	073	080	092	100		100	3
4	136	138	132	131	122	109	097	094	100	091	071	080	091	099		100	4
5	138	138	134	132	123	108	096	096	101	092	071	081	092	099		106	5
6	140	139	139	139	130	111	100	100	103	097	072	084	101	101		106	6
7	142	144	141	141	134	119	102	102	110	101	078	089	106	103		110	7
8	146	146	147	141	138	120	103	106	111	103	080	090	106	104		113	8
9	146	145	148	141	136	120	103	105	109	103	081	092	104	104		113	9
10	144	141	147	140	130	118	101	101	106	101	080	091	103	102		111	10
11	139	139	145	137	127	113	100	100	102	097	078	090	102	100		108	11
Noon	138	137	139	130	122	110	100	098	101	091	071	087	100	097		104	Noon
13	129	129	131	125	120	109	094	093	097	090	068	087	098	090		099	13
14	126	122	127	121	112	102	091	091	096	086	061	088	090	086		095	14
15	119	119	123	120	110	100	090	090	096	070	063	087	090	080		092	15
16	120	119	124	120	110	100	090	091	093	081	065	086	090	080		092	16
17	127	124	129	122	112	101	090	095	091	081	071	090	094	083		095	17
18	132	129	137	130	120	106	094	100	099	083	076	091	100	090		101	18
19	140	139	142	138	129	111	101	109	106	090	080	101	109	100		108	19
20	148	143	146	146	132	118	106	111	111	090	087	103	112	103		112	20
21	152	146	149	146	137	119	111	115	113	091	090	109	116	106		115	21
22	154	150	152	150	139	119	114	119	114	096	093	112	119	109		118	22
23	153	149	151	148	134	115	111	116	113	097	092	110	115	105		116	23

TABLE IX - AMOUNT OF CLOUD AT EVERY HOUR OF THE DAY (0 = CLEAR SKY, 10 = OVERCAST SKY)

NOVEMBER, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Mean
Midnight	1	5	0	0	1	2	0	0	0	0	5	0	10	0	0	0	0	0	0	8	1	0	5	6	9	10	3	9	7	2	[illegible]
1	1	5	0	0	1	2	0	0	0	0	5	0	10	0	0	0	0	0	0	6	1	0	6	6	9	10	3	9	7	2	[illegible]
2	1	5	0	0	1	2	0	0	0	0	6	0	10	0	0	0	0	0	0	4	1	0	8	0	10	10	3	9	7	2	2.6
3	1	6	0	0	1	2	0	0	1	0	7	0	10	0	1	1	0	0	0	3	1	0	8	0	10	10	2	9	7	2	2.7
4	1	3	0	1	1	3	0	1	1	2	7	0	10	0	1	2	0	0	0	3	1	0	8	0	10	10	2	9	6	2	2.9
5	4	6	1	1	2	6	0	2	7	4	8	2	8	1	1	3	0	0	1	3	1	0	5	0	5	9	3	10	6	3	3.6
6	4	6	1	2	2	6	1	2	5	6	8	3	6	2	1	3	0	0	1	3	2	0	5	0	8	8	3	10	6	3	3.6
7	4	6	1	2	2	6	1	2	2	7	8	4	6	3	1	3	1	1	1	4	1	0	5	1	8	8	2	10	5	4	3.6
8	4	5	1	2	4	7	2	3	4	8	7	6	6	5	3	3	1	3	4	2	0	5	2	7	9	7	8	5	5	4	4.4
9	3	4	2	2	5	7	3	4	6	9	5	7	6	6	6	3	3	2	5	5	4	1	6	4	6	4	6	10	9	6	5.0
10	4	4	2	3	4	8	3	5	6	9	5	7	8	4	5	3	3	3	8	5	4	4	7	4	6	10	9	6	[illegible]	4	5.5
11	5	3	2	5	4	8	4	5	6	6	8	7	7	7	4	3	3	4	9	5	4	3	10	3	6	10	7	[illegible]	[illegible]	[illegible]	5.5
Noon	5	3	6	5	4	7	5	5	6	6	8	7	6	8	4	3	3	4	9	5	4	8	10	3	6	10	6	8	[illegible]	[illegible]	5.8
13	6	3	6	5	5	7	6	5	5	5	8	7	5	8	4	2	3	4	9	5	5	9	10	5	7	10	7	[illegible]			6.0
14	7	4	6	6	5	7	7	5	4	4	8	8	4	8	4	1	3	4	9	4	5	9	10	5	8	10	9	8	6		6.2
15	[illegible]	5	7	6	5	6	7	4	4	4	9	8	4	8	5	1	4	8	9	4	5	7	10	6	9	10	6	9	5		6.0
16	9	4	7	6	5	7	7	5	3	6	9	9	3	7	5	0	4	6	8	2	4	7	10	8	9	10	8	9	5	5	[illegible]
17	9	4	7	5	3	8	8	7	3	8	9	10	1	6	4	0	4	5	7	1	3	8	9	9	9	10	10	9	4	4	6.1
18	9	8	7	5	3	8	8	7	2	7	9	10	1	8	4	0	3	5	6	1	2	8	9	9	9	10	10	9	4	4	6.2
19	7	2	4	4	2	8	5	4	2	6	8	10	0	2	4	1	1	8	5	1	2	8	9	2	8	10	[illegible]	[illegible]	[illegible]	1	4.8
20	5	2	2	1	2	5	2	0	2	3	6	10	0	1	3	1	1	6	4	3	0	1	9	3	8	10	[illegible]	[illegible]		1	3.7
21	5	2	1	1	2	4	1	0	2	2	6	10	0	1	2	1	0	3	8	3	0	1	9	3	7	10	[illegible]	[illegible]			3.5
22	4	2	1	1	2	4	0	0	0	2	0	10	0	1	0	1	0	3	8	3	0	1	9	2	7	10	10	8	2	[illegible]	3.1
23	4	2	1	1	2	4	0	0	0	2	0	10	0	1	0	1	0	3	8	3	0	1	9	2	7	10	10	7	2	1	[illegible]

TABLE X - DURATION OF BRIGHT SUNSHINE AT EVERY HOUR OF THE DAY AS RECORDED BY THE CAMPBELL-STOKES SUNSHINE RECORDER

NOVEMBER, 1942

Hour Ending \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total
	m	[illegible]	[illegible]			[illegible]	[illegible]		[illegible]	[illegible]	[illegible]				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	m			hrs
6h	15	16	10	17	8	0	15	15	7	4	25	20	8	25	15	10	25	25	0	0	0	[illegible]	0	27	6	0	28	0	0	5	5.9
7	60	60	60	60	60	55	60	60	53	59	60	60	60	60	50	60	60	60	30	44	50	[illegible]	20	60	56	0	60	20	46	60	26.1
8	60	60	60	60	45	60	60	60	60	47	60	60	60	60	60	60	60	60	60	60	60	[illegible]	57	60	60	0	60	45	60	60	28.2
9	60	60	60	60	60	60	60	60	60	0	60	60	60	60	60	60	60	60	60	60	[illegible]	[illegible]	35	60	60	2	60	45	60	60	27.3
10	60	60	60	60	60	60	58	60	60	0	60	35	60	60	60	60	60	60	50	60	[illegible]	[illegible]	40	60	60	55	55	40	60	60	27.6
11	60	60	60	60	60	60	50	60	60	0	60	0	60	60	60	60	60	60	2	60	[illegible]	[illegible]	16	60	60	2	60	60	20	60	23.9
Noon	60	60	54	60	60	60	40	60	60	0	35	1	60	45	60	60	60	60	0	60	[illegible]	25	0	60	50	0	60	60	60	60	22.6
[illegible]	60	25	24	60	60	55	60	60	60	0	0	20	60	40	60	60	60	60	2	60	[illegible]	[illegible]	0	60	45	0	60	45	60	60	21.2
[illegible]	60	55	4	60	48	30	60	60	14	0	0	45	60	10	60	60	60	60	4	60	[illegible]	[illegible]	0	60	40	0	60	2	60	60	19.3
15	34	60	0	60	60	30	15	60	60	58	0	6	60	0	60	60	60	53	2	60	9	[illegible]	0	60	43	0	60	0	60	52	18.0
16	36	60	0	60	60	15	43	60	60	48	0	0	60	0	60	60	40	50	20	60	12	[illegible]	0	60	50	0	20	0	60	60	17.6
17	30	60	9	60	60	11	0	40	60	0	8	0	60	0	60	60	45	5	30	60	50	77	57	44	0	0	30	60	60	60	16.3
18	13	29	0	0	60	0	30	58	60	45	0	0	60	0	60	60	60	0	6	60	43	[illegible]	0	36	0	0	0	30	60	36	13.4
19	0	0	0	0	20	0	0	0	30	60	6	0	0	26	0	0	30	28	0	0	26	15	0	0	6	0	0	0	0	0	3.7
20																															

TABLE XI - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To bbtain temperatures on the Absolute Scale add 273)

NOVEMBER, 1942

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	16.3	1.6	17.2	2.1	18.2	1.3	19.2	1.5	18.3	1.2	19.1	1.6	20.1	1.6	21.1	1.5	Midnight
1	16.2	1.6	16.8	2.0	17.5	1.1	17.8	1.1	18.8	1.3	19.0	1.4	19.1	1.1	20.9	1.6	1
2	16.0	1.7	16.3	1.9	17.3	1.0	17.2	1.0	18.3	1.1	18.1	1.1	18.6	1.5	20.3	1.2	2
3	16.0	1.7	16.3	1.9	17.3	1.0	17.2	1.0	18.3	1.1	18.1	1.1	18.6	1.5	20.3	1.2	3
4	15.1	1.4	15.9	1.5	16.4	1.0	16.6	0.8	18.1	1.0	18.2	1.5	18.2	1.1	19.6	1.0	4
5	15.2	1.5	15.6	1.3	16.2	1.0	16.9	0.7	18.1	1.0	19.0	1.2	17.9	1.3	19.2	1.0	5
6	17.2	2.1	16.5	1.3	16.0	1.0	17.5	0.6	18.8	1.3	19.5	1.4	18.1	1.1	19.6	1.0	6
7	21.1	3.2	20.0	2.0	21:8	3.1	22.0	2.3	22.8	3.1	22.3	2.0	21.8	1.8	22.6	1.6	
8	23.1	5.1	22.7	3.7	24.0	4.8	24.0	4.0	23.9	4.2	24.3	3.5	24.3	3.3	25.1	4.1	
9	24.0	6.4	24.1	5.0	25.2	5.1	25.3	5.4	25.2	5.3	26.1	5.2	26.4	5.2	26.2	5.1	
10	25.0	6.9	25.8	5.8	26.1	5.4	26.0	5.7	25.8	5.7	26.7	6.0	28.5	5.7	26.9	5.7	10
11	25.5	7.3	26.0	5.9	26.8	5.8	26.9	5.7	26.1	5.7	26.2	5.7	28.6	5.6	27.0	5.5	11
Noon	25.7	7.4	26.3	6.1	25.6	5.3	26.6	5.6	26.1	5.9	27.0	6.1	29.0	5.9	27.0	5.5	Noon
13	25.8	7.1	25.9	5.0	25.7	5.5	26.7	5.8	26.2	5.9	27.1	6.0	29.1	5.9	27.3	5.7	13
14	25.6	6.8	26.8	5.6	25.1	4.8	26.7	6.4	26.9	6.3	26.2	6.0	28.6	5.8	27.8	6.7	14
15	25.0	6.0	26.7	5.6	24.7	4.6	26.0	5.9	26.1	5.5	26.5	5.6	27.4	5.3	27.1	6.0	15
16	24.5	5.5	26.3	5.4	24.5	4.8	25.1	5.5	25.1	4.9	26.0	5.5	25.9	4.0	26.1	5.2	16
17	24.1	5.1	25.1	5.1	24.1	4.9	24.7	5.4	25.0	4.8	25.1	4.5	25.7	4.3	25.2	4.3	17
18	23.2	4.3	23.4	3.4	23.5	3.9	23.1	4.0	24.0	4.0	24.4	3.7	24.7	3.5	24.1	3.9	18
19	22.2	4.4	22.7	3.5	22.3	2.3	21.9	2.8	23.0	3.3	23.9	3.4	23.8	3.8	24.1	3.9	19
20	21.3	3.8	20.7	2.6	20.9	2.6	21.1	2.3	22.1	2.6	23.0	2.8	22.7	3.1	22.6	2.6	20
21	1[illegible]8	2.9	19.8	2.0	19.6	1.8	20.3	2.0	21.0	2.0	22.1	2.2	21.9	2.6	21.3	2.1	21
22	18.0	2.2	19.6	1.8	18.7	1.5	19.9	1.8	20.2	1.5	22.0	2.1	21.2	2.1	20.7	1.7	22
23	17.3	2.0	19.1	1.5	18.6	1.4	19.3	1.4	20.0	1.8	21.0	1.9	21.0	1.8	20.3	1.3	23

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	19.[illegible]	1.6	20.[illegible]	[illegible].5	[illegible]	[illegible].2	20.9	1.3	21.[illegible]	1.1	20.[illegible]	2.0	20.0	1.1	20.2	1.2	Midnight
1	19.6	1.4	21.1	1.5	20.8	1.2	20.3	1.1	21.2	1.1	19.5	1.7	20.0	1.0	19.6	1.4	1
2	19.8	1.3	21.1	1.1	20.1	1.0	19.9	1.3	21.2	1.1	19.2	1.5	20.0	0.9	19.3	1.1	2
3	19.7	1.0	20.9	0.4	20.4	1.2	19.9	1.2	21.2	1.1	19.1	1.6	20.1	0.8	19.6	1.2	3
4	19.1	0.8	20.3	0.7	20.9	1.2	19.5	1.2	21.4	1.2	18.4	1.4	20.1	0.8	19.1	1.1	4
5	19.1	0.8	20.0	0.8	20.3	0.9	19.2	1.0	21.3	1.0	18.2	1.5	20.0	0.8	19.0	0.9	5
6	20.2	0.7	20.3	0.9	21.1	1.3	19.5	1.0	22.0	1.3	18.3	1.3	20.4	1.0	19.2	0.9	6
7	22.6	1.1	[illegible]	2.2	23.9	2.6	23.0	1.8	24.0	2.3	23.0	2.8	23.7	1.2	23.6	1.9	7
8	24.6	2.6	25.3	3.3	25.9	3.7	25.5	3.3	25.0	3.2	25.1	4.1	24.3	1.9	25.4	3.5	8
9	26.8	4.8	25.6	3.3	27.0	4.8	26.1	3.8	25.3	3.7	26.2	5.4	27.1	3.7	27.1	5.6	9
10	27.8	5.7	25.7	4.1	28.1	5.9	26.6	3.9	26.3	4.7	27.0	6.1	28.0	4.9	27.9	6.4	10
11	28.6	6.0	26.3	4.3	28.0	6.0	25.9	3.0	27.0	5.2	27.9	6.3	29.0	5.1	28.1	7.0	11
Noon	28.8	6.0	27.5	5.0	27.2	5.8	25.9	3.0	27.0	5.7	28.4	6.6	29.9	5.8	28.3	7.3	Noon
13	29.0	5.6	27.9	6.1	27.0	5.7	26.3	3.1	27.3	5.7	27.1	5.1	29.9	6.1	28.8	8.4	13
14	29.1	6.1	28.0	5.9	26.9	5.3	27.5	4.4	27.7	6.5	27.0	5.5	29.9	6.2	29.2	9.3	14
15	29.2	6.9	28.9	6.2	26.1	4.9	25.2	2.0	27.0	6.2	26.1	4.8	29.2	5.2	28.8	9.5	15
16	28.2	6.6	27.8	5.4	26.0	3.9	24.6	1.7	26.2	5.5	25.9	4.7	28.9	5.1	28.0	8.0	16
17	27.8	6.9	26.8	4.7	25.7	3.4	23.9	1.3	25.1	5.0	25.7	4.5	27.5	4.5	27.0	6.2	17
18	26.0	4.9	26.3	3.5	25.0	2.9	21.2	0.5	23.9	4.3	24.3	3.2	26.4	3.8	25.9	4.8	18
19	24.1	3.4	25.1	3.0	24.2	2.5	21.0	1.2	22.6	3.3	23.1	2.1	25.0	2.8	24.1	3.1	19
20	22.8	2.8	23.9	2.7	23.8	2.0	21.1	1.0	21.7	2.6	22.1	1.7	23.0	1.4	23.0	2.8	20
21	21.5	2.1	22.3	2.1	23.1	1.9	21.1	1.0	21.1	2.1	21.9	1.8	22.0	1.9	22.1	2.7	21
22	21.9	2.0	22.1	1.9	22.0	1.3	21.1	1.1	21.0	2.1	21.1	1.2	21.4	1.5	21.3	2.2	22
23	21.0	1.7	21.6	1.6	21.3	1.1	21.5	1.4	20.6	2.0	20.2	1.3	20.6	1.4	20.2	1.7	23

TABLE XI (Ctd) - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To bbtain temperatures on the Absolute Scale add 273)

NOVEMBER, 1942

Day / Hour	17		18		19		20		21		22		23		24		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	19.5	1.3	21.3	4.2	22.0	1.2	22.9	2.7	21.8	2.8	21.0	2.1	19.9	1.3	21.1	1.1	Midnight
1	19.2	1.1	21.1	2.2	21.8	1.6	22.2	2.3	21.0	2.8	20.6	2.3	19.7	1.4	20.1	1.0	1
2	19.0	1.0	20.7	1.8	21.5	1.4	22.0	2.4	20.3	2.3	19.9	1.9	19.2	1.1	19.8	1.1	2
3	18.9	1.0	20.3	1.5	21.7	1.7	22.0	2.7	20.3	2.2	20.0	1.8	19.3	1.1	19.4	0.9	3
4	18.8	1.1	19.8	1.7	21.1	1.3	21.8	2.7	20.0	2.3	19.9	1.8	19.9	1.2	19.3	0.7	4
5	18.6	1.1	19.8	1.7	21.1	1.3	21.3	2.5	19.9	2.6	19.3	1.5	19.0	1.1	19.3	0.7	5
6	18.4	1.1	21.3	2.4	21.1	1.2	22.0	2.8	20.0	2.0	21.1	2.0	19.1	1.1	20.1	1.0	6
7	22.5	2.5	24.6	3.6	24.1	2.0	24.2	3.4	24.1	4.6	24.1	3.5	21.6	1.1	23.7	1.6	7
8	25.9	5.2	26.1	5.0	25.6	3.3	25.7	4.4	25.3	5.9	25.6	4.8	24.8	2.8	24.9	2.7	8
9	[illegible]	6.7	2[illegible].8	6.7	26.2	3.8	26.7	5.1	26.3	6.6	26.9	5.8	26.7	4.6	26.5	4.2	9
10	28.9	7.2	27.8	6.7	25.6	3.4	27.0	5.2	27.1	7.6	27.7	6.7	26.1	3.3	27.7	5.1	10
11	28.4	7.3	28.7	7.5	25.6	3.4	27.7	5.9	27.2	7.2	28.1	6.1	25.1	2.5	28.2	5.1	11
Noon	29.5	8.7	28.5	7.4	24.7	2.5	28.1	6.9	27.3	6.0	27.3	4.7	23.1	0.9	29.1	5.9	12
13	29.3	7.2	29.3	[illegible].3	24.0	1.9	28.0	6.9	27.7	6.5	25.0	2.1	23.8	1.5	29.8	7.1	13
14	29.1	8.8	29.1	8.0	25.1	3.0	27.9	6.9	26.8	5.9	22.9	1.4	24.2	1.8	29.3	6.4	14
15	28.3	7.2	28.3	7.4	26.0	4.0	27.3	6.4	26.8	7.1	23.2	1.1	23.2	1.0	30.1	6.3	15
16	27.0	6.4	27.1	5.8	26.0	4.1	27.0	6.9	26.0	6.2	23.0	1.7	23.0	1.1	28.2	4.9	16
17	26.9	5.9	26.1	5.0	25.3	3.7	25.7	5.7	25.2	5.1	23.9	1.9	23.0	1.0	27.2	4.1	17
18	25.9	4.9	25.8	4.7	24.1	3.2	24.1	4.5	24.0	4.4	23.6	2.0	22.7	1.4	26.7	3.8	18
19	23.6	3.4	24.7	3.6	23.2	2.5	23.8	3.9	23.0	3.8	22.4	1.5	22.3	1.1	25.0	2.7	19
20	22.2	2.5	24.0	3.0	23.1	2.4	23.0	3.4	22.3	3.1	21.1	1.2	22.0	1.0	23.7	2.1	20
21	21.5	2.3	23.1	2.3	23.0	2.4	22.3	3.1	21.7	2.7	20.3	1.3	22.0	1.1	22.3	1.4	21
22	21.0	2.1	23.0	2.0	22.9	2.6	22.2	3.1	21.9	2.9	20.4	1.3	22.0	1.0	22.0	1.3	22
23	20.8	1.9	22.1	1.4	22.9	2.7	22.0	3.0	21.2	2.3	20.1	1.4	21.9	1.3	21.6	1.3	23

Day / Hour	25		26		27		28		29		30				Mean		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap	Air	Excess of air over Evap		Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	21.6	1.3	22.6	1.0	21.2	0.9	23.0	1.2	23.0	1.9	22.9	2.2			20.6	1.6	Midnight
1	21.5	0.9	22.1	1.1	21.0	0.9	22.9	1.3	23.0	1.7	22.4	1.9			20.2	1.4	1
2	22.1	1.0	21.2	0.9	21.0	0.9	22.1	1.0	22.2	1.4	22.6	1.6			19.9	1.3	2
3	22.2	1.0	21.7	1.0	20.9	0.9	22.4	1.2	22.2	1.5	22.2	2.1			19.9	1.3	3
4	21.9	0.9	21.7	1.1	20.9	0.9	22.1	1.0	22.6	1.7	22.1	2.0			19.6	1.2	4
5	21.9	0.9	21.3	1.0	20.9	0.9	22.1	1.4	22.1	1.7	22.2	2.1			19.5	1.3	5
6	22.1	0.9	21.3	0.8	21.7	0.9	22.2	1.3	22.1	1.9	22.8	2.4			20.0	1.4	6
7	24.4	1.5	22.6	0.9	24.3	1.7	24.2	2.1	24.7	3.0	25.1	3.2			23.2	2.3	7
8	26.4	2.8	23.9	1.6	25.6	2.9	25.7	3.2	25.9	4.0	26.4	4.5			25.0	3.7	8
9	28.1	4.4	25.9	2.8	26.9	3.9	27.0	4.9	26.7	5.0	27.0	5.0			26.3	4.9	9
10	28.7	4.7	27.1	4.0	27.0	4.0	27.2	4.5	27.6	5.8	28.1	5.9			27.1	5.5	10
11	29.3	5.1	26.9	3.7	27.9	5.2	27.5	5.5	28.2	6.0	28.3	7.0			27.4	5.6	11
Noon	29.0	5.1	25.3	1.6	28.2	5.1	28.4	6.0	28.2	6.0	28.4	5.8			27.4	5.5	Noon
13	28.8	4.7	22.9	0.2	28.9	5.7	27.2	4.3	27.9	5.9	28.2	5.9			27.3	5.5	13
14	28.2	4.6	22.9	0.7	28.0	5.1	25.9	2.9	28.6	6.5	27.0	4.6			27.1	5.4	14
15	29.1	5.5	23.7	1.5	28.3	5.6	24.3	1.8	28.5	6.9	27.8	5.7			26.8	5.2	15
16	28.3	5.0	24.0	1.0	27.2	4.5	24.9	1.2	27.8	6.5	27.8	5.8			26.2	4.7	16
17	26.8	3.9	23.7	1.1	26.1	3.7	25.9	3.8	26.9	5.8	26.8	4.7			25.6	4.3	17
18	23.6	1.2	23.1	1.1	25.1	2.1	25.2	3.2	25.9	4.8	25.2	3.3			24.5	3.5	18
19	23.1	1.1	22.9	1.0	24.5	2.2	24.6	2.4	24.3	3.5	24.4	2.6			23.5	2.8	19
20	23.1	1.0	22.3	1.1	24.0	1.9	23.3	1.5	23.9	3.0	24.0	2.5			22.6	2.3	20
21	23.1	1.0	22.4	1.0	23.8	1.7	23.1	1.5	23.4	2.8	23.6	2.0			21.9	2.0	21
22	23.1	1.0	22.2	1.0	23.2	1.1	22.6	2.2	23.1	2.7	23.1	1.6			21.5	1.8	22
23	23.0	1.1	21.7	1.0	23.1	1.1	22.9	[illegible]	23.1	2.4	23.0	1.6			21.1	1.7	23

TABLE XII - DIRECTION AND VELOCITY OF THE WIND AT EVERY HOUR OF THE DAY AS RECORDED BY THE ROBINSON CUP ANEMOMETER DURING THE MONTH OF NOVEMBER, 1942

The directions are given in points and the values indicate the direction from which the wind blows counting from North (0), East (8), South (16) and West (24)

The velocities are given in metres per second, using the factor 2.2

(The days on which the Normal Trade Winds are interrupted are indicated by an asterisk *)

NOVEMBER, 1942

Hour \ Day	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Mid-night	11	2.1	27	1.3	27	1.6	12	1.9	09	1.5	07	1.4	10	1.4	10	1.4	11	2.3	07	1.2	[illegible]	[illegible]	[illegible]	[illegible]	13	1.1	10	2.1	07	1.5	10	1.8
1	[illegible]	2.1	27	2.0	27	2.0	12	1.1	09	1.0	07	1.5	10	1.4	11	1.2	11	1.8	10	2.0	[illegible]	[illegible]	[illegible]	[illegible]	13	1.7	10	2.1	07	1.9	10	1.8
2	[illegible]	2.1	27	2.4	27	1.4	12	1.7	09	1.1	08	1.8	10	1.8	11	1.7	11	1.1	10	1.4	12	2.3	16	2.0	13	2.2	10	1.8	[illegible]	[illegible]	11	1.5
3	11	1.7	r15	1.6	27	2.0	12	1.5	09	1.4	08	1.6	10	2.0	11	1.6	10	0.7	10	1.7	32	1.5	16	1.5	13	1.9	10	1.6	07	1.1	11	1.8
4	11	1.1	15	2.5	27	1.7	12	1.6	09	1.7	08	2.4	10	1.6	11	1.2	10	1.5	10	1.8	32	1.6	16	1.8	13	1.3	10	3.2	07	1.6	11	1.9
5	11	1.5	14	2.1	27	1.8	12	1.6	09	1.5	08	2.7	10	2.0	11	1.0	10	1.3	10	1.8	32	1.5	16	1.8	13	1.3	10	1.2	07	1.1	11	[illegible]
6	11	2.0	14	2.4	27	2.0	12	1.2	09	1.9	08	2.1	10	1.3	11	1.8	09	1.1	10	1.2	32	1.1	16	1.8	13	1.8	10	1.8	07	0.8	11	1.5
7	11	0.9	14	1.7	27	1.7	12	1.4	09	1.7	09	1.4	10	1.2	11	1.4	09	1.3	15	1.2	32	1.2	16	1.6	11	3.4	10	1.9	07	1.3	11	[illegible]
8	07	1.9	12	2.4	r19	3.3	08	2.5	07	3.3	03	2.6	10	1.1	09	2.0	05	3.3	r03	2.0	07	1.3	12	1.9	12	4.6	07	3.0	02	2.4	05	2.
9	07	2.5	09	2.3	r09	3.7	06	3.1	06	4.0	05	3.8	08	1.1	07	2.1	03	3.8	01	2.8	07	2.2	09	1.3	11	4.6	04	3.1	32	3.9	07	2.
10	08	2.9	07	2.2	12	3.2	04	3.1	06	3.9	05	4.2	r25	2.2	08	2.6	04	3.8	31	2.5	08	2.9	r29	2.0	10	4.5	07	3.0	02	3.6	07	2.
11	06	2.2	06	3.4	07	4.3	06	3.5	06	4.3	04	3.8	30	2.8	06	3.5	05	4.0	32	2.5	07	3.6	28	3.3	10	5.1	06	3.0	32	3.8	07	2.
Noon	03	3.2	13	4.3	07	4.0	07	4.3	06	4.4	05	3.5	23	3.5	04	3.6	08	4.0	03	3.1	08	3.3	26	3.0	09	5.4	06	3.2	29	7.1	08	3.
13	05	3.4	r21	3.0	07	3.5	06	4.3	08	4.2	04	3.4	27	2.5	06	4.0	08	4.1	02	3.1	06	2.8	29	3.6	10	5.8	06	3.5	32	4.3	08	3.
14	07	2.1	20	4.0	07	3.1	07	[illegible]	07	4.8	07	2.9	28	2.2	08	3.3	04	4.3	30	3.9	06	2.2	30	2.6	11	5.7	05	2.8	02	4.4	06	3.
15	r28	2.4	20	3.8	07	2.9	05	[illegible]	08	4.4	04	2.8	29	2.6	05	3.7	05	4.6	31	3.6	06	2.0	[illegible]	1.9	10	5.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.
16	28	1.8	21	4.1	d16	2.5	08	3.5	07	4.5	04	2.8	28	2.2	07	3.1	05	3.8	28	3.1	d23	2.1	[illegible]	[illegible]	10	5.2	06	1.5	29	2.9	07	3.
17	24	1.5	23	2.6	14	2.5	09	3.0	05	3.7	07	2.1	25	1.8	07	2.9	07	3.8	31	2.2	24	1.4	[illegible]	1.6	08	4.0	06	2.9	32	2.2	07	2.
18	27	0.7	25	1.5	18	2.1	09	2.2	07	3.0	07	1.8	26	1.1	07	2.5	07	3.1	01	2.1	24	2.0	r10	2.2	10	3.2	07	2.1	31	2.0	06	2.
19	27	0.9	27	1.1	16	1.8	09	1.3	07	1.9	07	1.7	12	1.8	07	1.7	08	1.4	32	1.5	22	1.5	06	1.9	10	2.9	07	1.6	31	1.1	06	1.
20	27	1.3	27	0.8	16	1.8	09	1.9	07	1.5	07	1.2	12	1.8	07	1.1	08	0.6	32	1.5	16	1.0	13	1.1	10	2.0	07	1.4	31	0.6	06	1.
21	27	1.8	27	1.8	16	1.5	09	2.3	07	1.3	07	1.3	12	1.5	07	1.4	08	1.2	32	01.7	16	0.7	13	2.0	10	1.8	07	1.5	31	1.1	06	1.
22	27	2.2	27	2.0	16	1.7	09	1.7	07	1.2	07	1.1	12	1.9	07	1.2	13	1.8	32	1.1	16	1.4	13	1.8	10	1.3	07	1.1	31	1.5	11	1.
23	27	2.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	2.7	07	113	14	1.3	32	1.2	16	1.8	13	0.7	10	2.0	07	1.1	dD	1.5	11	1.

Hour \ Day	17		18		19		20		21		22		23		24		25		26		27		28		29		30				Mean Velocity
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	
Mid-night	11	1.8	12	1.7	10	2.4	11	3.9	11	2.4	11	2.8	12	1.1	[illegible]	1.8	11	1.2	13	1.1	01	1.4	22	0.7	12	2.2	11	3.1			1.8
1	11	1.9	12	2.0	10	1.8	11	3.2	11	2.4	11	1.7	12	1.8	11	1.2	11	1.0	12	2.2	d11	1.9	22	0.7	08	2.6	10	3.3			1.8
2	11	2.2	13	1.4	11	2.0	12	3.7	11	2.3	11	2.1	12	1.3	11	1.5	11	0.8	10	2.8	11	1.5	22	1.1	10	2.1	09	1.3			1.8
3	11	1.5	13	1.7	11	1.7	12	3.1	11	1.9	11	2.1	12	1.6	11	1.3	11	1.2	12	1.6	11	1.2	22	0.7	10	2.2	11	[illegible]			1.7
4	11	2.1	12	2.4	11	1.0	13	3.7	11	1.3	11	2.0	12	1.1	11	2.0	09	1.1	12	1.2	11	1.1	22	1.9	10	2.8	11	[illegible]			1.8
5	11	2.2	11	1.3	11	2.0	12	3.2	11	1.8	11	2.1	11	1.1	12	1.4	09	1.3	12	1.2	11	1.6	r11	1.9	11	2.4	[illegible]				1.7
6	11	1.9	11	2.0	10	2.0	13	3.6	12	2.3	11	1.6	12	1.4	11	1.1	09	0.7	12	1.1	11	1.8	12	1.1	11	2.2	12	[illegible]			1.7
7	11	1.3	10	3.2	11	3.3	12	5.8	12	2.2	11	2.8	12	0.8	11	1.1	09	0.6	12	0.9	11	1.3	12	1.8	09	[illegible]	12	[illegible]			1.9
8	07	3.0	10	3.5	11	4.2	11	6.2	12	4.3	10	4.0	12	0.7	07	1.4	09	1.1	12	0.8	07	2.0	08	1.8	10	[illegible]	11	[illegible]			2.7
9	06	2.5	10	4.1	11	4.4	11	6.5	12	4.2	10	2.6	11	2.1	07	1.3	05	2.6	05	0.8	06	2.0	08	1.9	09	[illegible]	[illegible]	[illegible]			3.1
10	05	3.1	09	3.1	11	5.7	10	6.9	11	3.9	12	2.7	r26	2.5	04	1.9	05	3.4	07	1.1	07	2.7	07	2.1	10	6.2	10	5.0			3.3
11	[illegible]	3.2	06	3.7	11	5.2	11	6.8	16	2.3	15	2.5	32	2.8	04	3.2	02	3.0	r25	2.0	07	2.8	07	2.2	11	5.9	10	4.7			3.5
Noon	[illegible]	3.4	07	4.4	10	5.4	13	6.6	d25	2.3	22	2.1	d22	2.0	01	4.4	03	4.5	32	2.2	06	2.4	08	3.7	09	6.4	09	5.3			3.9
13	06	3.9	08	3.7	10	5.0	11	6.9	26	2.1	28	1.7	20	2.1	31	4.8	01	4.6	r20	3.0	06	4.0	14	2.6	09	6.2	08	4.9			3.6
14	07	4.1	06	4.2	10	5.4	10	7.2	24	2.6	29	2.7	21	2.6	32	4.3	02	4.7	18	1.3	05	3.2	21	3.7	11	6.9	08	5.0			3.8
15	07	4.6	13	3.3	10	5.6	10	7.2	r13	4.0	r18	2.5	22	2.8	02	4.0	01	3.8	15	1.5	04	2.5	21	2.8	12	6.8	09	5.5			3.7
16	11	2.7	12	2.7	11	5.4	09	7.1	11	4.6	17	2.4	r13	1.4	31	3.5	01	1.8	15	1.4	03	1.6	22	1.4	12	6.5	09	4.5			3.2
17	14	1.9	10	4.1	11	5.3	10	6.3	12	4.9	17	1.9	13	1.1	31	3.1	d12	1.6	r07	1.6	08	1.7	09	6.5	10	5.0	09	6.5			2.9
18	15	1.6	12	3.5	11	4.3	12	5.6	11	4.7	17	1.3	13	1.0	02	2.0	r14	2.4	01	0.7	d22	1.6	09	1.4	12	5.6	09	4.1			2.5
19	11	[illegible]	12	3.0	12	3.3	10	5.4	12	2.6	17	1.1	13	1.4	02	1.2	13	1.8	01	1.1	22	0.7	16	1.1	10	4.0	09	2.7			1.9
20	11	1.8	11	2.2	13	3.8	12	5.1	12	2.1	17	1.1	13	1.4	02	0.9	13	1.1	01	1.8	22	0.7	16	0.6	10	2.7	10	2.5			1.6
21	11	[illegible]	10	2.9	13	4.0	10	3.8	12	2.1	17	1.8	13	1.3	02	1.6	13	1.1	01	0.7	22	0.6	12	2.1	12	3.2	11	2.6			1.8
22	11	1.7	09	2.0	12	3.3	11	3.0	10	2.9	12	1.7	13	1.2	02	1.6	13	0.9	01	1.1	22	1.1	13	2.6	12	[illegible]	11	2.3			1.2
23	11	2.5	09	1.1	11	3.6	10	2.6	11	2.1	11	[illegible]	11	1.6	d11	1.1	13	1.2	01	1.3	22	0.9	12	2.3	[illegible]	[illegible]	11	2.7			1.8

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS), NOVEMBER 1942

Force (0-12)				Direction															
Hour	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	W.N.W.
3	-	-	30	1	-	-	-	3	5	17	-	2	-	-	1	-	-	1	-
9	-	1	29	2	-	5	4	11	2	6	-	-	-	-	-	-	-	-	-
15	-	5	25	2	1	6	1	5	3	3	-	1	1	2	1	-	-	4	-
21	-	-	30	3	1	-	1	6	3	10	-	3	-	-	-	-	-	2	-
Total	-	-	30	8	2	11	6	25	13	36	-	6	1	2	3	-	-	7	-

TABLE XIVa - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY FOR NOVEMBER, 1942

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	3.6	..	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.0	..	..	..	..
4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.2	..	..	..	0.2	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	6.2	..	..	2.2	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	4.4	0.1	..	..	10.8	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12.1	..	..	..	29.6	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	3.9	1.2	..	..	0.3	..	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	4.5	..	..	..	..	0.2	..	..
17	..	..	..	..	..	..	..	..	..	..	..	1.2	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..
18	..	..	..	..	..	..	..	..	..	..	..	3.7	..	..	..	..	..	..	..	..	..	..	..	..	6.7	0.1	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	0.9	0.1	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	..	..	..	1.2	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE XIVb - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS FOR NOVEMBER, 1942

Time \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2
4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.5
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	..	0.2	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3.5	..	..	..	0.2	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.7	..	..	0.8	..	0.2	..	..
13	..	..	..	..	..	..	..	..	..	..	..	1.0	..	..	..	..	..	..	1.2	..	..	..	4.0	..	..	1.1	0.2	6.1	..	..
14	..	..	..	..	..	..	..	..	..	..	..	7.0	..	..	..	..	..	..	..	..	..	..	0.8	..	..	6.5	0.3	3.9	..	..
15	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	1.3	..	..	..	3.4	10.0	..	..	0.3
16	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	0.8	..	..	2.7	0.3	..	..	3.4	3.3	..	..	..
17	..	..	..	..	..	..	..	..	..	0.3	..	0.2	..	..	..	..	..	..	0.1	..	..	1.7	..	..	..	6.3	12.4	..	..	..
18	..	..	..	..	0.2	..	..	..	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	1.1	9.7	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	0.5	..	0.3
22	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.9	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE XV - TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR NOVEMBER, 1942

RIVER SYSTEM	STATIONS	Approximate Altitude in feet	Total Fall		Normal in inches	Number of Days
			Inches	Millimetres		
1	Mare Seche	20	1.48	37.6	1.62	6
	St Antoine	50	2.19	55.6	1.42	6
	Bel Mont	50	0.94	23.9	1.83	4
	Poudre d'Or	20	1.71	43.4	1.73	4
	Mon Loisir S.E.	300	2.54	64.5	2.16	7
	Forbach	300	2.11	53.6	1.80	6
	Couroupa	...	1.64	41.6	2.17	3
	Labourdonnais	290	1.71	43.5	2.00	4
	Mapou Water Office	...	...	...	...	..
	Beau Sejour	300	2.46	62.5	2.63	6
	Mont Piton	650	3.23	82.0	2.42	5
	Mon Choix	700	4.62	117.3	2.33	4
	Antoinette	640	2.55	64.8	2.67	10
	Mon Songe	620	1.21	30.7	3.04	3
	Botanical Gardens	325	3.04	77.3	2.19	10
	The Observatory	179	3.88	98.7	1.76	8
	Solitude	175	...	...	1.23	..
	St Andre Cour	90	...	...	1.66	..
	La Nicoliere	...	3.59	91.2	5.15	7
	California	...	3.34	84.8	2.38	6
	Australia	...	3.11	79.0	...	5
2 & 3	Union Regnard Flacq S.E.	600	2.44	62.0	2.78	2
	Constance La Gaiete	100	2.04	51.8	2.64	5
	Rich Fund	600	2.56	65.0	4.01	6
	La Joffrette	...	1.30	33.0	...	2
	Belle Vue Allendy	...	1.91	48.5	4.11	6
4	Sans Souci	900	...	...	6.12	..
	Beau Champ G.R.S.E.	20	1.13	28.7	2.47	5
	Olivia	400	1.92	48.8	4.22	6
	Trois Ilots	...	...	...	...	..
	Belle Rive	400	2.20	55.9	6.75	7
	Sebastopol	700	...	...	...	..
	Bonne Veine	400	3.39	213.1	6.35	7
5	Rose Belle	850	9.34	237.2	7.98	11
	New Grove	650	5.65	143.5	...	10
	Mon Tresor	...	2.14	54.4	...	6
	Mon Desert Carie	75	0.90	22.9	2.93	4
	Ferney	20	2.50	63.5	3.50	9
	Sauveterre	...	2.90	73.7	...	7
	Tivoli	1300	9.59	243.6	5.90	8
	La Flora	1050	9.57	243.1	7.24	10
	Riche Bois Britannia	650	7.95	201.9	5.93	8
6	Britannia S.E.	700	8.62	218.9	4.55	10
	Savannah Mill	200	3.53	89.7	3.63	5
	St Aubin	300	...	...	3.24	..
	St Avold	900	9.34	237.2	5.88	8
	Colmar	400	9.26	235.2	4.38	9
	Union S.E.	...	3.54	89.9	4.18	5
	Fontenelle	320	2.92	74.2	4.13	5
	Choisy	200	3.05	77.5	2.60	13
	Beaubois	...	...	...	3.72	..
	Bel Air	...	2.51	63.8	4.17	3
	St Felix	...	3.90	99.1	...	4
7, 8, 9 & 10	Bel Ombre	40	1.24	31.5	2.30	6
	B.Champ B. du Cap	70	3.30	83.8	2.73	6
	Frederica	...	3.28	83.3	...	8
	Pierrefonds	...	3.04	77.2	2.54	7
	Ste Marie	...	3.99	101.3	...	9
	Hussonia	...	...	...	...	..
11	Curepipe Gardens	1840	3.93	99.9	5.43	9
	Mare-aux-Vacoas (G.End)	1850	8.58	217.9	6.63	10
	Mare aux Vacoas (Arnaud)	1830	11.70	297.2	6.32	12
	La Marie Filter Beds	1700	3.29	83.6	4.30	10
	Sophie	...	...	...	...	..
	Reunio					
	Aerological Station	1393	...	...	4.80	..
	Phoenix	...	5.58	141.7	3.30	6
	Quatre Bornes	...	3.68	93.5	...	7
12	Quatre Bornes Board	1090	3.78	96.0	...	5
	Le Reduit Dept. of Agric.	1000	3.31	84.1	2.20	13
	Alma	1460	6.48	164.6	5.12	7
	Bagatelle	1250	4.24	107.7	2.75	8
	Highlands	1300	4.09	103.9	3.12	8
	Trianon	950	3.06	77.7	2.35	8
	Val Ory	1100	...	...	2.30	..
	Bassin	...	3.92	99.6	2.90	7
	Hermitage	1450	3.71	94.2	5.55	7
	Ebene	...	2.49	63.2	...	8
	Bega	...	3.62	91.9	...	8
	Mon Reve	...	2.64	67.1	...	8
	Mont Pevril	...	2.42	61.5	...	8
	Minissy	1150	2.69	68.3	2.[illegible]5	8
	Plaisance	...	0.52	13.2	...	4
	La Ferme	350	3.60	91.4	1.65	6
13	Line Barracks	...	1.60	40.6	...	7
	Richelieu Tobacco Res.Stn.	...	1.92	49.7	...	[illegible]

TABLE XVI - PILOT BALLOON OBSERVATIONS FOR THE MONTH OF NOVEMBER, 1942

Date	Time	Surface		250 metres		500 metres		750 metres		1,000 metres		1,500 metres		2,000 metres		2,500 metres		3,000 metres		3,500 metres		4,000 metres	
		Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity
		°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.	°	m.p.s.
1	09.18	088	5.6	088	4.7	078	2.2	096	3.8	100	4.2	099	4.0										
2	09.23	092	3.4	109	3.7	117	4.2	122	3.8	127	3.0												
3	09.05	308	2.9	149	1.2	132	3.5	114	5.0	126	6.5	129	8.8										
4	09.21	083	5.9	067	4.8	071	6.2	066	7.3	058	9.3	055	8.5										
5	09.57	075	5.0	057	2.3	080	3.5	087	5.9														
6	09.47	039	5.6	045	3.4	064	2.6	063	4.2	062	6.0	061	8.0										
7	09.03	295	3.3	360	1.0	082	2.9	071	3.7	072	7.5												
8	09.07	040	3.4	066	2.9	095	2.3	096	2.2	086	3.2												
9	09.09	020	5.3	040	3.7	044	6.5	050	7.0	051	6.7	052	6.0										
10	09.14	359	7.7	352	5.0	358	3.6	021	3.4	043	2.6	067	2.0										
11	09.17	329	7.5	011	4.1	050	5.1	071	8.4	075	7.4	081	5.7										
12	09.01	296	3.0	225	0.3	065	1.8	094	4.4	130	4.5	117	7.3	119	8.2								
13	0[illegible].50	143	2.5	122	2.2	134	3.4	128	3.7	125	5.9												
14	08.53	075	3.8	076	2.0	083	3.1	070	2.5	137	1.5	121	2.3										
15	09.02	358	7.1	356	5.2	012	3.9	023	3.4														
16	10.48	343	11.4	016	3.0	035	3.8	082	4.0	062	5.4	061	7.9										
17	09.28	071	8.2	065	8.8	281	0.5	315	0.7	036	2.2	027	3.6										
18	08.56	110	8.0	093	3.5	114	5.0	117	6.0														
19	09.05	098	6.0	109	9.2	141	4.5	120	5.5	130	6.4												
20	09.19	126	4.7	133	1[illegible].3	108	3.8	114	9.8														
21	09.05	193	2.2	173	1.7	168	2.3	163	1.0	138	2.2												
22	08.43	279	4.1	279	0.6	082	1.5	123	[illegible].6	114	1.9	045	1.8										
23	09.28	288	5.8	287	1.6	221	1.0	228	1.5	158	1.1	090	3.7										
24	09.12	016	5.2	048	1.3	063	3.1	072	2.8	082	3.3	073	3.6										
25	09.33	344	10.7	354	7.5	014	4.8	018	5.3	046	3.4												
26	07.22	082	2.0	075	2.3	058	2.5	049	2.0	051	1.3	360	0.1	029	2.5	030	3.0	017	2.4				
27	08.06	079	6.5	084	2.9	098	3.9	087	4.6	074	4.8	083	5.0										
28	08.40	040	1.6	061	1.5	083	2.5	083	3.3	087	5.6	097	4.5										
29	09.36	111	5.7	115	3.3	116	5.2	103	5.4	106	[illegible].3												
30	09.25	113	11.0	104	8.3	077	4.1	094	4.2	096	4.8												

MAURITIUS METEOROLOGICAL SERVICE

ACTING DIRECTOR

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RESULTS
OF
MAGNETIC AND METEOROLOGICAL OBSERVATIONS
DECEMBER, 1942.

Printed by courtesy of

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January, 1961.

TABLE I - RESULTS OF MAGNETICAL OBSERVATIONS MADE DURING THE MONTH OF DECEMBER, 1942.

Month and Day	Mean Declination (West)	Mean Horizontal Force (C.G.S.) (Units)	Mean Vertical Force (C.G.S.) (Units)	Daily Range* Declination	Daily Range* Horizontal Force (Units)	Daily Range* Vertical Force (Units)
Dec.	° ′			′		
1	14°25.0	...	.29993	6.7	...	17
2	24.8	.22425	991	8.5	20	22
3	24.7	428	991	5.8	22	19
4	24.9	430	988	9.0	72	33
5	24.8	436	989	5.3	38	21
6	23.9	...	990	10.5	...	17
7	24.9	...	990	9.3	...	23
8	24.3	418	993	12.0	67	31
9	24.6	422	994	18.5	55	25
10	24.8	407	995	12.0	20	16
11	24.8	414	...	9.0	42	...
12	24.7	420	991	11.7	50	29
13	25.5	414	991	8.3	16	26
14	25.7	419	995	7.3	48	14
15	25.2	433	989	5.8	39	18
16	25.6	430	995	4.5	40	10
17	25.3	434	991	6.5	32	13
18	25.8	436	988	6.0	18	15
19	25.3	442	988	8.0	14	18
20	26.0	444	990	5.0	40	13
21	24.9	427	988	13.5	112	41
22	25.3	415	995	8.0	28	28
23	...	402	998	...	132	44
24	...	394	...	...	30	...
25	25.2	406	...	8.5	39	...
26	24.6	412	996	11.4	60	19
27	25.1	420	995	6.0	34	26
28	25.6	422	996	4.8	27	15
29	25.1	431	991	7.0	44	19
30	25.6	438	991	5.3	31	12
31	25.1	442	992	3.7	38	7
Mean	14°25.0	.22424	.29992	8.20	43.1	21.1

Description of the Principal Magnetic Disturbances

1d & 2d.	Very slightly disturbed.
4d.	Slightly disturbed.
5d.	Very slightly disturbed.
6d.0h to 7d 10h.	Records missing.
7d 10h and 8d.	Moderately disturbed at times.
9d.	"Bay" disturbance between 0h and 2h. (30γ). Moderately disturbed at end; minor irregular features.
10d, 11d and 12d.	Very slightly disturbed.
15d.	Very slightly disturbed in parts.
20d.	Very slightly disturbed in parts.
21d.	Moderately disturbed throughout; disturbance subsiding gradually on 22d.
23d.	Short moderate disturbance during 2nd half of the day. Important decrease in force with minor irregular features. Trace almost quiet after 24d 0h.
24d.	Slightly disturbed during 2nd half. Minor waves.
25d.	Slightly disturbed.
26d. & 27d.	Very moderately disturbed in parts.

T = .37448 : Mean Dip = 53°12′.95 : X = .21718 : Y = -.05583 : Z = .29992.

* The daily range is the difference between the greatest and least hourly values.

TABLE II - RESULTS OF ABSOLUTE DETERMINATIONS OF THE MAGNETIC ELEMENTS DURING THE MONTH OF DECEMBER, 1942.

Declination (West)		Horizontal Force		Dip (South)		Resulting
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	Vertical Force
d. h.m.	° ′	d.h.m.		d.h. m.	° ′	
4.12.07	14.21.1	3.9.31	.22438	4.12.23	53.10.00	.29960
15.14.06	14.23.4	10.9.58	.22405	15.14.18	53.12.31	.29986
18.13.28	14.23.8	14.9.29	.22440	18.13.43	53.11.31	.29979
22.14.15	14.21.5	17.9.41	.22450	22.14.30	53.13.18	.29981
29.14.30	14.21.8	21.9.38	.22455	29.14.45	53.12.07	.29981
		24.9.50	.22402			
		28.9.26	.22431			

TABLE III - MAGNETIC DECLINATION (WEST) AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

DECEMBER, 1942.

Hour \ Day	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	Hour \ Day
	14° +																
	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	
Midnight	25.0	25.0	24.7	24.7	25.5	24.5	25.5	25.7	25.5	27.0	25.3	25.0	25.0	26.0	26.0	25.7	Midnight
1h	24.7	25.0	25.0	24.7	25.7	25.0	25.7	26.5	25.5	26.0	24.5	25.3	25.5	26.0	26.0	25.7	1h
2	25.0	25.0	24.5	24.5	26.0	25.5	26.3	26.5	26.0	25.3	24.0	25.5	25.7	25.7	26.5	26.0	2
3	25.5	25.3	24.3	23.0	26.0	26.0	26.3	25.7	27.0	24.5	25.3	24.0	25.5	25.5	26.5	26.2	3
4	25.7	25.5	24.5	24.0	26.5	26.3	27.0	26.7	28.3	25.0	26.5	24.5	26.3	26.0	26.7	26.5	4
5	25.5	26.0	25.5	26.5	26.7	26.7	27.5	27.7	29.0	27.3	27.3	26.0	26.5	26.5	27.0	27.5	5
6	27.2	27.5	26.5	29.0	27.0	28.0	28.0	28.3	30.5	28.5	28.7	28.5	27.5	27.0	27.3	27.5	6
7	28.0	29.5	28.5	30.0	27.3	29.0	30.0	29.5	30.5	30.0	29.5	30.5	29.5	29.0	28.5	28.0	7
8	28.7	29.0	28.0	30.0	27.0	27.0	29.5	28.0	29.3	29.0	27.5	30.7	30.0	30.0	28.5	27.5	8
9	28.0	27.5	26.0	28.0	24.5	23.0	26.5	24.0	26.0	26.7	25.0	29.0	28.5	29.0	27.0	26.5	9
10	26.5	25.5	24.0	26.3	22.5	20.0	25.0	20.5	13.5	25.5	23.7	26.0	27.0	27.0	25.7	25.0	10
11	25.0	23.7	24.0	23.0	22.0	18.7	23.0	19.0	12.0	23.0	21.5	22.5	24.5	25.0	24.5	24.5	11
Noon	24.5	23.3	23.5	21.5	22.0	18.5	22.5	18.0	20.5	19.0	21.3	20.3	24.0	24.0	23.0	24.0	Noon
13	23.0	22.5	23.3	21.0	22.2	20.0	21.5	17.5	20.0	18.0	20.5	19.0	22.5	23.3	23.3	23.5	13
14	22.5	21.0	22.7	21.0	23.0	20.5	20.7	19.0	20.3	19.5	20.5	19.5	22.3	22.7	23.5	23.7	14
15	22.0	21.7	23.0	22.5	24.7	22.0	21.5	21.5	22.5	21.5	22.0	20.7	22.2	23.5	23.3	24.5	15
16	22.5	22.3	23.5	23.5	24.5	23.5	21.7	23.5	23.0	23.3	23.7	22.0	21.7	23.5	23.0	24.3	16
17	23.3	23.3	23.5	23.7	24.3	23.7	23.0	24.5	24.0	25.0	25.0	23.5	22.5	23.5	22.7	24.0	17
18	24.3	24.3	24.0	24.3	24.3	24.0	24.0	24.7	24.7	26.0	26.0	25.0	24.0	24.0	23.5	24.0	18
19	24.0	24.5	24.7	26.0	24.5	24.2	24.3	25.0	27.0	25.5	25.5	25.0	25.0	25.0	23.7	25.3	19
20	23.7	24.5	25.0	25.0	25.3	24.5	24.0	25.0	24.5	25.0	25.5	25.5	26.0	26.0	24.0	25.5	20
21	24.3	24.3	25.0	24.7	25.0	24.0	24.0	25.3	26.0	25.3	25.5	25.3	26.0	26.5	24.5	26.3	21
22	24.5	24.5	24.5	25.2	24.5	24.3	24.3	25.3	26.0	26.0	25.0	25.3	26.5	26.5	25.0	26.0	22
23	25.5	24.5	25.0	25.5	24.5	24.7	25.5	25.5	27.0	25.5	25.3	25.3	26.5	26.3	25.5	26.0	23

Hour \ Day	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d	Mean	Hour \ Day
	14° +																
Midnight	26.0	26.0	25.7	25.5	25.5	24.7	25.5	...	25.5	25.5	26.0	25.7	26.0	26.0	25.7	25.5	Midnight
1	26.0	26.3	26.2	26.0	25.7	25.5	25.5	...	25.0	26.2	25.0	26.0	26.0	25.8	26.0	25.6	1
2	25.8	26.5	26.5	26.7	25.5	26.0	25.7	...	24.5	25.3	25.7	26.3	26.0	26.0	26.0	25.7	2
3	26.2	26.7	26.7	26.7	26.0	26.0	26.0	...	25.5	26.5	26.0	26.5	26.0	26.2	26.3	25.8	3
4	26.5	27.3	27.0	27.3	25.7	27.0	26.5	...	26.5	27.0	25.7	27.0	26.3	26.5	26.3	26.3	4
5	27.0	27.0	27.3	27.5	28.3	28.0	26.7	...	27.0	27.5	27.0	27.3	26.7	27.0	26.7	27.0	5
6	28.0	28.0	27.7	28.3	30.0	27.0	27.5	...	28.0	29.0	27.7	27.5	27.5	27.7	26.5	27.9	6
7	29.5	29.0	28.5	27.7	31.0	28.0	28.0	...	28.0	29.7	27.5	27.5	27.7	28.0	26.3	28.8	7
8	29.0	28.3	29.0	28.5	32.5	29.0	28.3	...	29.0	27.5	26.0	27.0	28.0	27.5	25.0	28.5	8
9	27.5	27.0	27.7	28.3	29.5	28.5	26.0	...	28.0	25.0	26.5	27.5	27.5	27.0	24.5	26.9	9
10	25.3	25.0	25.0	27.5	25.0	28.0	24.0	27.0	27.0	25.0	26.5	27.3	26.0	26.7	25.7	25.0	10
11	23.5	23.3	22.5	25.7	23.0	26.0	...	26.5	26.0	22.5	26.3	27.0	24.0	26.2	26.5	23.4	11
Noon	23.0	23.0	21.0	24.0	20.0	23.5	...	24.3	23.5	20.5	25.5	25.0	22.3	25.0	25.0	22.4	Noon
13	23.0	23.7	22.0	23.5	19.0	21.3	...	22.5	22.0	18.3	23.0	24.5	21.0	24.0	23.5	21.7	13
14	23.0	25.0	22.5	23.7	19.0	21.0	...	21.5	20.5	19.0	22.0	23.7	21.0	23.7	23.0	21.7	14
15	23.0	25.7	23.7	24.3	20.0	22.5	...	21.0	21.0	20.3	21.7	23.5	22.0	23.0	23.7	22.5	15
16	23.2	26.0	24.5	24.3	20.0	23.5	...	20.5	22.0	21.0	21.7	22.7	23.0	22.7	23.0	23.0	16
17	23.3	25.0	25.0	25.0	23.0	24.5	...	22.5	22.7	22.5	22.5	23.0	23.5	23.5	23.0	23.6	17
18	23.7	24.5	24.7	25.0	24.5	25.0	...	24.3	24.0	24.0	23.3	23.0	24.0	24.7	23.7	24.3	18
19	24.5	24.7	24.5	25.3	24.3	25.0	...	26.2	25.3	25.5	25.0	24.0	25.0	25.3	24.5	24.9	19
20	25.0	24.5	24.7	25.0	24.7	24.0	...	25.7	25.7	25.0	25.0	25.0	25.3	25.5	25.0	25.0	20
21	25.0	25.0	24.7	25.5	25.0	24.0	...	25.5	26.0	25.5	25.3	25.5	26.0	25.7	25.3	25.2	21
22	25.3	25.0	25.0	26.5	26.0	24.5	...	25.3	26.0	26.5	25.5	25.5	25.7	25.5	25.5	25.4	22
23	25.5	25.5	25.5	26.3	25.3	25.5	...	25.5	25.7	26.0	25.5	25.7	25.7	25.7	25.7	25.6	23

TABLE IV - MAGNETIC HORIZONTAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of temperature in the Magnet Chamber)

DECEMBER, 1942.

.22000 + (C.G.S. UNIT)

Hour \ Day	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	Day / Hour
Midnight	411	417	429	421	427	430	...	409	400	397	402	420	415	411	413	440	Midnight
1h	412	419	427	423	428	429	...	427	430	397	418	414	413	412	416	441	1h
2	411	423	429	429	430	425	...	415	416	402	420	413	414	412	419	433	2
3	414	421	428	440	432	...	...	425	417	407	417	425	415	418	425	431	3
4	415	423	427	450	431	...	...	425	418	430	413	420	425	436	420	415	4
5	413	427	429	439	430	...	...	423	425	417	415	431	415	428	428	435	5
6	415	430	430	450	435	...	...	425	430	417	422	429	419	429	431	438	6
7	415	431	437	459	442	...	...	430	428	413	425	431	420	428	436	445	7
8	...	437	440	457	445	...	...	427	430	409	420	431	419	429	440	450	8
9	...	429	436	446	448	...	...	421	431	402	425	430	420	437	449	441	9
10	...	431	435	445	457	...	455	431	435	407	429	436	421	449	452	440	10
11	419	437	431	445	459	...	453	435	440	411	432	440	420	450	449	438	11
Noon	411	429	429	436	450	...	445	438	439	410	425	430	412	440	440	432	Noon
13	410	421	429	433	448	...	442	440	431	408	413	423	410	425	429	425	13
14	410	424	423	428	441	...	439	441	433	416	410	419	410	411	428	420	14
15	415	423	425	422	433	...	439	437	432	415	405	421	413	404	426	410	15
16	417	421	422	421	427	...	432	429	440	406	402	407	411	407	431	411	16
17	419	421	427	424	429	...	412	420	425	400	390	390	411	409	431	419	17
18	419	419	430	413	428	...	414	405	410	399	393	400	412	411	432	425	18
19	421	419	427	390	422	...	390	405	403	407	403	410	407	435	425	417	19
20	421	420	425	401	421	...	406	383	410	401	410	413	410	403	429	421	20
21	420	425	418	415	430	...	402	374	401	404	410	412	405	410	435	427	21
22	417	421	419	420	429	...	403	381	407	404	410	412	407	402	435	419	22
23	415	424	421	423	430	...	401	395	385	405	413	417	412	407	447	418	23

.22000 + (C.G.S. UNIT)

Hour \ Day	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d	Mean	Day / Hour
Midnight	422	430	442	447	434	417	427	383	405	410	409	421	426	428	439	419	Midnight
1h	420	431	441	449	440	415	423	390	413	417	414	422	424	427	435	422	1h
2	433	431	441	450	440	425	424	392	429	421	412	427	424	428	435	424	2
3	430	431	440	450	445	428	426	392	420	418	425	424	427	429	436	426	3
4	427	427	439	446	466	426	426	397	411	420	420	425	430	430	435	427	4
5	429	426	439	446	455	420	425	399	411	421	417	423	430	433	437	427	5
6	431	430	441	442	457	418	423	[illegible]	415	425	426	425	432	437	443	430	6
7	440	434	439	452	451	425	426	[illegible]	417	435	437	426	437	445	452	434	7
8	445	439	438	451	459	414	438	402	413	432	439	423	445	449	464	435	8
9	450	440	437	455	457	417	443	[illegible]	413	425	431	431	450	453	[illegible]	435	9
10	452	441	443	461	462	419	447	404	417	429	429	431	456	458	460	439	10
11	447	444	451	465	470	420	430	400	412	423	422	427	455	457	461	438	11
Noon	441	441	445	454	468	405	421	397	410	426	415	432	447	446	450	433	Noon
13	437	438	449	450	452	413	425	380	405	421	420	425	437	436	445	428	13
14	440	435	450	449	429	420	419	390	407	415	425	424	435	436	436	425	14
15	435	431	443	443	428	403	390	403	395	390	430	420	427	432	427	420	15
16	430	435	439	434	400	400	356	390	392	375	413	417	418	432	429	414	16
17	431	440	441	431	363	402	335	394	391	380	405	405	412	433	433	410	15
18	431	440	442	431	358	400	315	375	392	396	405	407	415	434	437	409	18
19	429	439	441	429	380	405	350	374	392	387	410	412	420	435	437	410	19
20	432	438	441	429	375	413	371	377	391	401	417	417	422	435	437	412	20
21	428	441	440	429	370	414	375	391	390	400	417	420	425	436	436	413	21
22	427	441	441	437	391	419	380	411	390	405	416	415	422	436	436	416	22
23	429	442	445	431	403	415	370	400	402	407	415	420	426	437	437	417	23

TABLE V - MAGNETIC VERTICAL FORCE AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

DECEMBER 1942

29000 + (C.G.S. Unit)

Hour \ Day	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	Day \ Hour
Midnight	996	993	991	992	993	989	992	997	1003	1000	997	995	995	995	996	993	Midnight
1h	996	993	992	992	993	989	992	997	997	1000	994	995	996	995	996	992	1h
2	996	994	992	992	993	990	993	996	999	997	993	996	996	995	996	993	2
3	996	994	992	991	993	991	996	996	1000	998	...	994	996	995	996	995	3
4	996	995	994	994	994	992	993	997	1000	1000	...	994	996	994	996	995	4
5	995	994	994	995	995	993	994	997	1000	1000	...	996	996	994	995	996	5
6	996	998	997	9[illegible]9	996	997	995	1000	1003	1000	...	1000	998	996	995	996	6
7	1000	999	1002	1000	1000	997	997	1000	1004	1001	...	1002	1004	1000	995	996	7
8	1000	997	997	997	997	993	996	995	1003	993	...	996	1003	1002	993	994	8
9	998	994	992	990	987	980	990	987	997	985	...	982	997	1000	988	993	9
10	997	993	983	983	934	982	985	982	996	987	989	975	993	995	984	993	10
11	996	992	984	974	980	980	983	977	990	987	987	973	985	994	978	992	11
Noon	996	986	986	968	979	986	983	974	983	985	985	978	983	993	982	996	Noon
13	939	977	986	967	980	990	978	979	979	987	982	981	981	993	987	997	13
14	987	978	987	973	980	993	975	984	980	991	983	984	978	993	986	1000	14
15	984	982	991	982	983	994	977	987	983	996	991	991	979	996	983	1002	15
16	983	988	989	987	984	993	980	990	985	998	996	993	981	995	979	998	16
17	987	990	988	988	988	992	986	993	986	998	995	996	984	992	980	993	17
18	990	991	987	990	988	991	991	994	989	997	996	998	988	988	984	993	18
19	989	990	989	995	989	990	991	997	993	993	994	994	990	992	986	993	19
20	990	990	989	993	990	990	991	999	992	994	994	993	991	993	987	992	20
21	990	990	989	992	989	990	995	1003	996	996	995	994	993	994	989	992	21
22	992	990	990	992	989	990	997	1005	995	997	996	994	994	995	991	993	22
23	994	990	992	992	989	991	998	1003	1002	997	996	994	994	996	993	993	23

29000 + (C.G.S. Unit)

Hour \ Day	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d	Mean	Day \ Hour
Midnight	993	993	989	989	990	995	995	1006	998	998	1000	997	998	995	993	994	Midnight
1h	995	993	989	988	989	995	995	1005	998	998	998	996	998	996	994	994	1h
2	994	993	990	989	989	996	994	1003	998	997	997	996	997	996	995	994	2
3	995	993	991	989	990	994	994	1002	997	997	998	996	997	995	995	995	3
4	996	995	992	990	989	995	995	1002	995	997	996	995	996	995	995	995	4
5	996	995	992	991	994	997	996	1002	...	997	997	995	995	996	994	995	3
6	998	996	993	993	997	999	997	1006	...	997	998	996	996	996	993	997	6
7	997	995	998	994	1000	1003	997	1010	...	992	994	998	996	993	990	998	7
8	996	993	997	997	998	1006	994	1011	...	987	992	999	992	992	989	996	8
9	992	990	990	995	986	1007	989	...	...	987	998	1004	988	990	990	992	9
10	989	987	985	992	980	1007	988	...	997	990	1006	1004	984	992	995	990	10
11	988	983	980	987	970	1000	986	...	992	997	1002	1004	981	991	995	987	11
Noon	988	982	980	984	964	989	983	...	984	993	992	996	979	[illegible]	993	985	Noon
13	987	982	983	985	961	980	980	...	982	986	983	992	979	984	990	983	13
14	987	983	984	987	967	979	982	...	980	984	980	990	982	984	988	984	14
15	987	985	986	987	974	983	989	...	980	993	984	991	986	984	992	987	15
16	987	983	988	987	977	990	1004	...	986	998	987	989	992	986	991	989	16
17	985	981	989	988	994	994	1013	...	990	1000	992	993	992	990	989	991	17
18	987	981	988	989	1002	994	1018	997	994	1000	996	995	991	992	991	992	18
19	988	984	987	989	998	995	1024	1002	998	1001	996	995	992	992	991	993	19
20	989	986	988	990	997	994	1009	1003	998	999	996	995	992	991	991	993	20
21	990	986	988	990	1000	995	1009	1002	1000	1001	995	996	993	991	991	993	21
22	992	988	988	991	1002	995	1008	1001	1001	1003	996	997	994	992	992	994	22
23	993	989	988	991	996	997	1008	1002	1000	1000	997	997	994	993	992	995	23

TABLE VI - RESULTS OF METEOROLOGICAL OBSERVATIONS MADE AT THE AEROLOGICAL STATION VACOAS (424.5 metres above mean sea level) DURING THE MONTH OF DECEMBER, 1942.

Month and day 1942	Observations at 10 a.m.									Temperature of the Air							Rainfall		Duration of Bright Sunshine	Percentage of Possible Sunshine
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat. 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0 - 10)	3h	9h	15h	21h	Daily Maximum	Daily Minimum	Daily Range	Amount Recorded by the Casella Pluviograph	Duration		
DEC.	mbs.	°C	°C	°C	%	mbs.	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms.	mins	hrs.	%
1	968.7	24.1	3.2	19.2	74	22.2	45	4.5	6	20.3	24.0	24.2	20.9	26.8	19.9	6.9	0.4	10	8.5	65
2	969.8	24.6	3.4	19.4	73	22.5	70	5.4	8	20.1	24.2	25.3	20.8	26.7	19.9	6.8	0.1	5	11.1	84
3	970.1	22.2	1.3	20.2	89	23.7	60	7.2	6	20.1	22.0	24.5	20.7	26.1	19.8	6.3	3.8	60	8.5	65
4	968.5	24.0	3.8	18.0	70	20.6	65	5.6	5	19.4	23.2	25.1	19.8	26.7	19.0	7.7	...	...	9.9	75
5	967.3	25.0	4.4	18.1	66	20.8	85	1.1	6	19.0	24.2	22.0	18.8	26.8	18.1	8.7	37.2	105	6.4	49
6	967.3	23.3	3.7	17.4	70	19.9	CALM		5	16.3	24.0	21.0	19.3	25.9	16.0	9.9	23.2	35	7.8	60
7	967.2	24.1	5.1	15.7	59	17.8	75	1.3	4	18.4	23.8	25.1	20.4	27.3	18.0	9.3	...	...	11.8	90
8	967.8	25.2	3.7	19.5	71	22.7	90	2.2	6	18.9	24.5	24.2	21.7	27.7	18.0	9.7	0.8	15	7.9	60
9	967.6	23.9	3.2	19.5	77	22.7	CALM		7	19.2	24.0	22.1	19.7	26.0	18.2	7.8	27.9	170	5.1	39
10	966.6	24.7	4.1	18.3	68	21.0	50	2.0	6	19.5	23.9	24.7	20.0	26.5	19.6	6.9	...	...	6.0	45
11	967.8	24.2	3.2	19.3	74	22.4	85	1.8	6	...	23.7	26.9	20.0	27.9	18.0	9.9	...	...	11.5	87
12	967.9	25.0	3.6	19.5	72	22.7	115	2.7	5	19.4	24.2	25.7	20.9	27.6	18.8	8.8	...	...	9.5	72
13	967.8	25.2	5.1	17.0	61	19.4	95	1.3	5	19.2	24.3	25.5	20.4	27.9	18.6	9.3	...	...	10.6	80
14	966.8	25.1	3.9	20.0	74	23.4	90	3.6	6	19.0	24.0	24.5	21.0	27.3	18.8	8.5	...	...	9.1	69
15	967.3	24.7	4.1	18.3	68	21.0	70	2.5	7	20.6	24.1	22.9	21.2	26.6	20.0	6.6	2.4	10	9.4	71
16	968.4	25.0	3.5	19.6	72	22.8	85	3.3	8	21.1	24.0	24.9	21.4	27.4	20.5	6.9	0.8	35	10.4	78
17	969.4	24.0	3.9	17.8	69	20.4	95	4.5	8	21.0	23.7	24.8	21.5	26.7	20.5	6.2	3.0	75	8.8	67
18	968.0	23.6	2.7	19.4	77	22.5	90	6.7	8	19.5	22.4	24.9	20.0	26.0	19.8	6.2	5.4	125	8.8	66
19	967.5	24.0	4.4	16.9	65	19.2	95	4.5	4	19.3	22.9	24.4	19.3	26.1	17.6	8.5	0.2	5	11.5	87
20	966.6	24.5	4.4	17.5	65	20.0	90	1.5	3	17.4	23.8	24.3	21.0	26.8	15.8	11.0	0.1	5	7.1	54
21	966.5	24.2	3.7	18.3	70	21.0	120	6.3	8	19.6	23.7	24.5	21.7	26.6	19.0	7.6	0.2	20	12.0	91
22	967.1	24.1	2.0	21.1	83	25.0	125	5.1	9	21.2	23.8	26.0	22.9	27.0	20.9	6.1	20.1	360	6.8	52
23	967.0	25.2	2.5	21.4	80	25.5	90	6.7	8	22.0	24.1	26.7	23.3	27.0	21.6	5.4	15.9	250	6.0	45
24	967.4	25.1	2.7	21.0	78	24.9	25	3.1	8	23.0	25.0	25.9	22.0	27.6	21.8	5.8	1.1	20	8.3	63
25	967.5	27.4	4.1	21.3	70	25.3	CALM		6	21.2	26.5	22.3	21.8	28.8	20.2	8.6	9.2	50	6.0	45
26	966.9	26.1	4.2	19.7	68	23.0	CALM		7	20.2	25.4	21.4	21.9	28.2	19.0	9.2	7.5	55	5.6	43
27	967.4	25.9	3.0	21.3	76	25.3	350	0.9	8	20.6	25.0	22.8	21.1	27.1	19.0	8.1	23.1	145	4.1	31
28	967.4	24.7	2.7	20.6	78	24.2	360	1.3	7	20.5	24.3	26.5	19.0	28.4	20.0	8.4	0.9	15	7.8	59
29	967.2	26.2	3.5	20.9	73	24.7	CALM		7	20.6	25.2	25.7	20.0	27.8	20.6	7.2	2.1	20	5.7	43
30	968.2	25.9	3.3	21.0	75	24.9	CALM		7	19.3	25.1	27.0	21.7	28.6	19.0	9.6	1.0	5	7.2	54
31	968.3	25.5	3.2	20.7	75	24.4	70	1.8	5	21.4	25.0	25.5	21.5	28.3	21.3	7.0	0.2	10	9.9	75
Mean	967.7	24.7	3.5	19.3	72.3	22.4	...	2.8	6.4	22.4	24.1	24.6	20.8	27.2	19.3	7.9	186.6	1605	8.35	63.2
Average	966.0	24.4	3.1	19.7	75.2	23.0	...	3.4	6.8	...	...	...	...	26.4	19.1	7.3	227.8	...	6.64	50.0
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

EXCESS OF CERTAIN ELEMENTS AT PAMPLEMOUSSES OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	+ 41.2 mbs.	Amount of Rain	- 131.5 mms.
Temperature of the Air	+ 3.1°C	Duration of Bright Sunshine	+ 51.8 hrs.
Vapour Pressure	+ 1.6 mbs.	Mean of Maximum Temperatures	+ 2.3°C
Relative Humidity	- 8.1 %	Mean of Minimum Temperatures	+ 1.7°C
Velocity of Wind	+ 1.0 m.p.s.	Absolute Maximum Temperature	+ 2.9°C
Amount of Cloud	- 0.7	Absolute Minimum Temperature	+ 2.1°C

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING MONTH OF DECEMBER, 1942 .

Month and Day 1942	Atmospheric Pressure		Temperature of the Air					Excess of Air Temp over Evaporation Temp.	Temperature of the Dew Point		Relative Humidity (Sat. = 100)		Vapour Pressure	Minimum on the grass	Rainfall		Amount of Evaporation	Mean Amount of Cloud (Scale 0-10)
	Mean	Excess above average	Daily Maximum	Daily Minimum	Daily Range	Mean	Excess above average		Mean	Excess above Average	Mean	Excess above Average			Amount recorded by Dines Pluviograph	Duration		
DEC.	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs.	°C	mms.	min.	mms.	
1	1009.4	+ 1.0	28.3	22.0	6.3	24.7	0.0	2.9	20.2	+ 0.6	76	+ 3	23.7	18.9	3.7	35	6.6	5.3
2	1010.8	+ 2.5	28.0	21.2	6.8	24.6	- 0.2	2.9	20.1	+ 0.4	76	+ 3	23.5	18.9	0.1	15	4.0	4.7
3	1010.8	+ 2.6	28.0	21.7	6.3	24.5	- 0.3	3.2	19.6	- 0.1	74	+ 1	22.8	18.5	0.3	15	8.4	3.5
4	1009.1	+ 1.0	29.1	21.0	8.1	24.1	- 0.8	3.3	18.9	- 0.9	73	0	21.8	18.1	0.1	5	5.5	2.9
5	1007.7	- 0.4	28.3	18.3	10.0	22.8	- 2.1	2.4	19.0	- 0.8	79	+ 5	22.0	15.9	10.6	100	7.8	3.8
6	1007.6	- 0.4	27.5	18.0	9.5	22.7	- 2.3	3.0	18.0	- 1.9	75	+ 1	20.6	15.4	0.0	...	6.4	3.8
7	1007.8	- 0.1	29.1	19.9	9.2	24.3	- 0.7	3.9	18.1	- 2.0	68	- 6	20.8	17.1	0.0	...	5.0	2.1
8	1008.6	+ 0.8	29.1	19.8	9.3	24.9	- 0.1	3.3	19.9	- 0.3	74	0	23.2	16.7	0.0	...	8.4	2.5
9	1007.5	- 0.2	29.9	20.2	9.7	24.3	- 0.8	2.4	20.6	+ 0.4	80	+ 6	24.2	17.0	4.8	55	7.2	5.1
10	1007.4	- 0.2	29.3	21.2	8.1	24.7	- 0.5	2.9	20.2	- 0.1	76	+ 2	23.7	19.0	0.9	30	5.0	4.6
11	1008.5	+ 1.0	29.8	20.2	9.6	24.5	- 0.7	3.6	18.9	- 1.4	71	- 3	21.8	16.5	0.0	...	7.4	2.8
12	1008.3	+ 0.9	29.3	19.7	9.6	24.6	- 0.6	3.6	19.0	- 1.3	71	- 4	22.0	16.0	0.3	5	7.5	2.4
13	1007.5	+ 0.1	29.2	19.7	9.5	24.3	- 0.9	3.5	18.9	- 1.4	72	- 3	21.8	16.3	0.0	...	7.8	2.4
14	1007.4	0.0	29.7	20.7	9.0	24.8	- 0.5	3.7	19.1	- 1.3	71	- 4	22.1	16.8	0.3	5	5.4	3.5
15	1008.1	+ 0.8	28.2	21.5	6.7	24.6	- 0.7	3.1	19.9	- 0.5	75	0	23.2	18.2	1.0	25	7.0	4.3
16	1009.7	+ 2.4	28.8	22.0	6.8	25.0	- 0.3	3.3	20.0	- 0.6	74	- 1	23.4	20.0	0.3	15	7.4	4.6
17	1009.6	+ 2.4	29.6	22.3	7.3	25.4	0.0	3.6	19.9	- 0.7	71	- 4	23.2	19.8	0.3	15	7.7	4.2
18	1008.3	+ 1.1	28.5	22.0	6.5	24.5	- 0.7	3.9	18.6	- 2.1	69	- 6	21.4	20.3	4.2	110	7.9	5.3
19	1007.9	+ 0.8	29.0	20.2	8.8	24.8	- 0.6	4.6	17.5	- 3.2	64	-11	20.0	16.1	0.0	...	8.9	2.5
20	1007.0	- 0.1	28.9	17.9	11.0	23.7	- 1.7	3.3	18.5	- 2.2	73	- 3	21.3	12.9	1.2	15	8.2	4.0
21	1007.1	0.0	30.0	19.0	11.0	25.1	- 0.4	3.9	19.0	- 1.8	69	- 7	22.0	14.8	0.0	...	6.2	2.5
22	1007.4	+ 0.4	30.3	21.9	8.4	25.8	+ 0.3	2.8	21.7	+ 0.9	78	+ 2	26.0	18.0	7.8	155	7.0	5.3
23	1007.6	+ 0.5	29.4	23.9	5.5	25.8	+ 0.3	1.6	23.5	+ 2.7	87	+11	29.0	22.6	2.7	135	5.0	7.8
24	1008.2	+ 1.3	31.4	22.8	8.6	26.9	+ 1.3	2.4	23.5	+ 2.6	82	+ 6	29.0	20.3	2.5	55	5.3	5.3
25	1007.9	+ 1.0	31.7	22.4	9.3	26.5	+ 0.9	2.7	22.5	+ 1.4	79	+ 3	27.3	19.9	0.0	...	7.2	3.9
26	1007.4	+ 0.5	29.1	22.0	7.1	24.8	- 0.8	1.7	22.3	+ 1.2	86	+10	27.0	18.8	4.1	50	6.1	5.7
27	1008.3	+ 1.5	30.9	21.7	9.2	25.5	- 0.1	2.2	22.3	+ 1.2	83	+ 7	27.0	18.5	5.9	130	3.8	7.0
28	1007.8	+ 1.0	31.2	21.2	10.0	26.5	+ 0.9	2.9	22.2	+ 1.1	77	+ 1	26.8	18.6	0.3	10	4.3	5.3
29	1007.6	+ 0.9	31.5	22.4	9.1	26.8	+ 0.9	3.4	21.9	+ 0.7	75	- 1	26.3	18.6	0.0	...	7.9	5.3
30	1009.1	+ 2.5	31.7	21.0	10.7	26.1	+ 0.4	3.3	21.2	0.0	75	- 1	25.2	17.2	0.0	...	7.1	3.7
31	1008.9	+ 2.3	30.0	23.0	7.0	26.0	+ 0.3	3.1	21.4	+ 0.2	76	0	25.5	19.9	3.7	35	7.3	2.6
Mean	1008.3	+ 0.9	29.5	21.0	8.5	25.0	- 0.3	3.1	20.2	- 0.3	75.1	+ 0.2	23.8	16.6	Sum 55.1	Sum 1015	6.7	4.2
Average	1007.4	...	29.7	21.6	8.1	25.3	...	3.2	20.5	...	74.9	...	24.1	19.1	116.1	1211	6.6	5.5
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

General Weather Conditions during the Month of December, 1942

From the 7th - 10th, 13th - 14th and 25th - 29th the influence of extra-tropical depressions was quite marked. On the 20th a weak "low" was centred about 900 miles north-east. It moved west by south and on the 24th was centred about 300 miles north-west of Mauritius where it filled up.

Mean pressure was appreciably above normal, cloudiness well below and sunshine well above normal. Rainfall was only 47% of the average.

TABLE VII (Contd.) - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF DECEMBER, 1942.

Month and Day 1942	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the Soil: 10 Feet	Temperature of the Soil: 5 Feet	Temperature of the Soil: 2 Feet	Temperature of the Soil: 12 Inches	WEATHER (0h 3h 6h 9h 12h 15h 18h 21h 24h)
DEC.	hrs.	%	m.p.s.	m.p.s.	°C	°C	°C	°C	
1	10.9	83	3.3	0.0	24.1	24.6	26.7	27.2	bro bcro bc bcro
2	11.8	89	3.8	+ 0.5	24.1	24.6	26.8	27.3	bc bcro bc b
3	11.5	87	4.1	+ 0.8	24.1	24.9	26.9	27.3	b bc bcro b bro
4	11.0	83	2.9	- 0.4	24.1	24.6	27.1	27.4	b bcro bc b
5	6.4	48	2.0	- 1.3	24.1	24.8	27.1	27.2	bo b bc cR bc b bo
6	7.0	53	2.1	- 1.2	24.1	24.6	27.1	26.8	b bc c bc b
7	12.6	95	2.4	- 0.9	24.1	25.0	27.0	26.5	b bc b bo
8	12.1	92	2.3	- 1.0	24.1	24.9	26.9	26.8	bo b bc b
9	5.7	43	2.0	- 1.3	24.0	25.0	27.0	27.2	bo b bc bcq cq cro bc
10	11.3	85	2.4	- 1.0	24.0	25.0	27.1	27.2	bcro bc b
11	9.4	71	2.5	- 0.9	24.1	25.0	27.2	27.4	bo b bc b
12	11.9	89	2.6	- 0.8	24.0	25.0	27.2	27.3	bo bro bc b
13	7.5	56	2.2	- 1.2	24.0	25.0	27.3	27.5	bo b bc b bo
14	10.8	81	2.6	- 0.8	24.1	24.8	27.4	27.2	b bcro bc b
15	11.5	86	3.8	+ 0.4	24.1	24.9	27.3	27.4	bo b bc bcqro bc bcro bc
16	12.2	92	3.4	0.0	24.0	25.0	27.4	27.5	bcro bc
17	11.5	86	3.6	+ 0.2	24.0	24.9	27.5	27.8	b bro bc c bc b
18	9.5	72	3.6	+ 0.2	24.0	25.0	27.6	28.0	bcro cr bc b
19	12.7	95	3.7	+ 0.3	24.1	25.0	27.6	27.8	b bo bc b bo
20	8.1	61	2.2	- 1.2	24.1	25.0	27.7	27.8	bo bc cro bc
21	11.9	89	3.8	+ 0.4	24.1	25.1	27.7	27.4	b bc b
22	11.8	89	4.3	+ 0.9	24.1	25.1	27.7	27.8	b bc bcq bc crr
23	8.0	60	4.2	+ 0.8	24.1	25.1	27.7	28.1	cro bcro cqro olqro oro
24	8.7	65	2.7	- 0.7	24.1	25.1	27.7	28.2	cro c cro bc b
25	9.0	68	1.9	- 1.5	24.1	25.3	28.0	28.4	b bc c bc b
26	5.0	38	1.3	- 2.1	24.1	25.3	28.0	28.4	bo b bc cRRtsm oro c bc
27	7.6	57	1.8	- 1.6	24.1	25.2	28.0	27.7	b bc ot obr cro c
28	12.3	93	2.2	- 1.1	24.1	25.1	28.0	27.9	b bc bcro bc
29	10.6	80	1.9	- 1.4	24.1	25.3	28.0	28.3	bc b
30	10.3	77	2.1	- 1.2	24.1	25.6	28.0	28.4	b bc b bc b
31	10.4	78	2.3	- 1.0	24.1	25.1	28.2	28.7	b bcro b
Mean	10.03	75.5	2.77	-0.59	24.08	25.00	27.45	27.61	
Average	8.35	62.6	3.36	...	24.58	25.55	27.13	27.94	
Column	19	20	21	22	23	24	25	26	27

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF DECEMBER, 1942.

Element	Highest	hrs	Date	Lowest		Date
Atmospheric Pressure	1012.2mbs	at 21.00 & 22.00 hrs	on 2nd	1005.3mbs	at 17.00hrs	on 2[illegible]
Temperature of the Air	31.7°C	at 13.30	on 25&30th	17.9°C	at 05.10hrs	on 20th
Daily Range of Temperature of the Air	11.0°C		on 20th	0.5°C		on 23rd
Temperature of the Dew Point ...	24.3°C	at 07.00	on 24th	15.9°C	at 12.00hrs	on 19th
Minimum on Grass				12.9°C		on 20th
Relative Humidity	96.7%	at 22.00	on 22nd	45.9%	at 12.00hrs	on 19th
Vapour Pressure	30.4mbs	at 07.00	on 24th	18.1mbs	at 12.00hrs	on 19th
Evaporation in 24 hrs. ...	8.9mms		on 19th	3.8mms		on 27th
Wind Velocity	6.9mps	at 18.00	on 21st	0.6mps		often
Rainfall in 24 hrs	10.6mms	ending 15.00	on 5th			
Duration of Sunshine	12.7hrs		on 19th	5.0hrs		on 26th

Mean Day Temperature of Air 27.27°C Mean Night Temperature of Air 22.65 °C.

NUMBER OF DAYS OF

Mean Cloud Amount: 0	1 - 3	4 - 6	7 - 9	10	Rainfall: 0.1 - 0.9 mms.	1.0 - 4.9 mms.	5.0 - 9.9 mms.	10.0 - 24.9 mms.	25.0 & over mms.	Lightning	Thunderstorm
...	11	18	2	...	9	9	2	1	...	1	1

TABLE VIII - ATMOSPHERIC PRESSURE IN MILLIBARS AT EVERY HOUR OF THE DAY AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level). (The cistern of the barometer is 55.2 metres above mean sea-level).

DECEMBER, 1942.

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	Hour \ Day
Midnight	101	106	116	110	089	081	086	093	092	080	092	100	090	079	083	094	Midnight
1h	092	100	110	103	081	076	081	090	089	076	087	091	086	072	074	090	1h
2	087	099	105	096	080	071	077	084	082	070	081	089	080	070	071	090	2
3	082	096	106	091	075	070	074	081	079	065	081	081	077	065	071	088	3
4	082	094	106	092	074	070	072	081	076	061	081	080	077	066	070	088	4
5	085	099	108	091	076	071	072	081	076	062	081	082	080	070	071	091	5
6	091	105	111	095	080	075	077	088	079	070	090	090	084	074	078	096	6
7	100	111	119	100	086	080	080	091	080	076	093	090	088	078	081	101	7
8	101	112	120	100	087	081	083	093	080	077	097	094	086	080	082	103	8
9	106	116	120	100	084	085	088	094	080	079	096	093	084	080	085	103	9
10	108	116	119	098	082	083	084	091	079	076	091	090	080	080	088	101	10
11	102	114	115	091	079	080	081	090	076	076	089	086	075	072	085	101	11
Noon	093	111	110	089	070	074	076	085	071	072	082	080	069	070	080	099	Noon
13	091	109	101	081	071	070	070	080	068	070	076	071	063	069	076	091	13
14	084	101	098	080	070	070	067	075	063	064	071	069	061	062	075	090	14
15	083	100	093	078	070	063	063	072	061	061	070	064	060	061	075	088	15
16	080	098	092	076	064	062	061	072	061	060	070	065	059	061	071	086	16
17	080	101	096	080	063	064	067	074	061	064	071	069	061	061	074	090	17
18	089	108	099	081	068	070	071	080	062	070	078	075	066	069	080	094	18
19	096	114	103	091	074	075	078	082	069	080	085	081	070	076	087	101	19
20	101	120	107	095	081	080	087	089	073	082	090	089	074	081	092	108	20
21	102	122	110	095	081	084	090	091	077	090	095	090	080	088	096	112	21
22	110	122	113	096	085	090	092	099	082	092	100	091	081	090	100	113	22
23	111	120	111	095	085	090	093	097	082	095	100	091	080	090	099	111	23

The initial 10 or 9 is omitted. The unit in the table is 0.1 millibar

Hour \ Day	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d	Mean	Hour \ Day
Midnight	109	098	091	087	080	079	087	080	094	080	084	091	087	090	102	091	Midnight
1	101	090	084	080	073	073	080	074	089	072	081	088	081	089	100	086	1
2	099	082	080	072	071	071	075	070	086	070	077	081	080	082	091	081	2
3	092	081	077	071	069	070	071	069	081	067	074	080	072	081	089	078	3
4	091	080	074	070	063	070	071	070	080	064	073	075	071	081	089	077	4
5	096	082	076	070	066	071	071	071	080	067	073	077	071	082	090	079	5
6	100	089	080	071	070	076	078	074	081	070	079	080	074	090	091	083	6
7	106	090	084	074	072	080	081	083	085	073	086	081	081	096	098	088	7
8	106	091	088	073	078	081	084	090	089	076	090	081	082	097	101	090	8
9	106	090	083	071	076	081	090	091	083	073	090	084	080	090	099	089	9
10	106	090	083	071	076	081	090	091	083	079	090	084	080	099	099	089	10
11	102	087	081	071	071	080	083	091	080	077	090	081	080	100	096	087	11
Noon	098	081	078	063	070	071	072	090	076	077	083	078	073	096	086	081	Noon
13	091	075	072	061	062	069	070	086	071	074	081	074	071	090	080	077	13
14	083	070	070	060	060	063	071	080	072	071	076	071	067	086	079	074	14
15	079	066	066	056	060	061	068	074	070	069	072	070	061	081	071	070	15
16	079	063	061	054	060	060	062	070	069	063	074	066	061	081	071	069	16
17	080	066	062	053	061	061	065	070	067	065	076	066	068	085	072	071	17
18	084	070	070	061	066	066	064	075	069	069	081	067	070	090	079	076	18
19	090	079	077	070	071	072	070	081	071	073	086	071	077	091	085	081	19
20	096	083	082	076	077	079	073	087	078	080	090	072	081	096	090	087	20
21	100	091	087	081	080	082	077	093	081	084	091	080	085	101	091	091	21
22	103	094	091	084	082	087	079	098	082	086	096	086	090	103	093	094	22
23	100	096	091	082	081	090	080	097	086	086,	095	089	091	105	092	094	23

TABLE IX - AMOUNT OF CLOUD AT EVERY HOUR OF THE DAY (0 = CLEAR SKY, 10 = OVERCAST SKY)

Hour \ Day	DECEMBER, 1942.																															
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Mean
Midnight	1	7	1	1	0	0	2	0	0	4	0	0	0	1	0	5	2	4	2	[illegible]	[illegible]	1	9	9	1	0	3	3	6	2	1	[illegible]
1h	3	7	1	2	0	0	2	0	0	4	0	0	0	1	0	4	2	5	2	0	[illegible]	1	[illegible]	9	1	0	3	3	6	2	1	2.2
2	1	5	1	2	0	1	2	0	0	4	0	0	0	2	0	4	3	3	2	0	1	1	9	9	1	0	2	2	6	2	3	2.2
3	2	4	1	2	0	1	2	1	0	4	0	0	0	2	1	3	4	4	2	0	1	1	8	10	2	0	2	2	6	2	3	2.3
4	2	5	1	2	0	1	2	1	0	4	1	0	0	5	1	4	4	4	2	0	1	1	8	10	2	0	3	2	5	3	3	2.5
5	8	6	1	2	1	1	1	1	2	5	1	2	1	7	3	5	3	10	0	0	0	1	3	9	1	1	3	1	5	4	1	2.9
6	8	7	1	3	1	4	1	2	2	5	2	3	1	4	3	6	3	10	0	0	0	1	3	9	1	1	3	1	4	5	2	3.1
7	8	7	1	3	1	4	1	3	2	5	4	3	1	4	3	6	3	9	0	0	2	1	3	9	1	6	5	1	5	5	2	3.5
8	7	7	3	3	5	3	3	3	5	6	5	4	3	5	5	6	5	9	2	0	3	4	5	9	3	7	7	5	6	6	3	4.7
9	5	7	6	3	9	3	4	4	8	6	6	4	5	5	7	6	8	8	4	1	4	6	8	9	4	8	8	8	7	6	5	5.9
10	5	9	5	6	6	4	3	4	5	6	5	4	5	5	7	4	8	8	5	2	4	6	8	8	5	9	8	7	7	6	4	5.7
11	5	8	8	4	8	6	3	5	5	6	5	[illegible]	5	5	6	4	8	6	5	5	4	6	8	6	6	9	8	6	7	5	3	5.8
Noon	5	4	8	5	6	7	2	5	8	6	4	5	4	5	6	4	7	6	5	9	4	7	7	6	6	9	9	7	6	5	2	5.8
13	5	4	7	6	8	7	3	5	8	7	4	4	5	5	6	5	6	6	5	9	6	7	7	6	7	10	9	7	6	3	3	6.0
14	8	3	7	6	10	8	4	5	8	6	5	3	5	6	6	4	5	5	5	9	7	7	8	7	8	10	9	7	5	3	3	6.2
15	7	3	8	6	10	8	3	5	9	6	5	3	6	7	6	4	5	4	6	9	7	8	9	8	8	10	9	6	5	3	3	6.3
16	7	4	7	4	9	7	3	4	9	6	5	3	5	5	5	5	5	4	5	6	5	7	9	5	8	10	10	7	5	5	3	5.9
17	6	5	6	2	7	6	4	3	9	6	4	3	4	3	4	5	5	4	4	7	2	6	10	3	8	9	10	8	6	8	3	5.5
18	5	5	5	3	4	5	4	3	9	6	3	3	3	3	3	5	5	8	3	8	1	6	10	3	8	9	10	9	6	8	3	5.4
19	6	1	4	1	3	3	2	2	8	5	3	1	2	2	4	1	4	6	2	9	1	9	10	3	7	9	10	8	6	3	2	4.4
20	6	2	0	1	2	3	0	1	8	5	1	1	1	1	5	5	4	1	0	9	1	9	10	2	3	5	9	8	5	1	2	3.6
21	5	2	1	1	0	3	0	1	5	1	1	1	0	1	6	5	3	1	0	5	1	9	9	2	1	4	9	6	3	1	2	2.9
22	5	2	1	1	0	1	0	1	5	0	1	1	0	1	6	6	3	1	0	5	1	9	9	2	1	4	9	6	3	1	2	2.9
23	[illegible]	2	[illegible]	1	0	3	0	1	5	0	1	1	0	1	6	6	4	1	0	3	1	9	9	2	1	4	9	6	3	1	2	2.8

TABLE X - DURATION OF BRIGHT SUNSHINE AT EVERY HOUR OF THE DAY AS RECORDED BY THE CAMPBELL-STOKES SUNSHINE RECORDER

Hour Ending \ Day	DECEMBER, 1942.																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	hrs.
6h	0	0	0	0	0	0	12	13	0	0	20	7	17	1[illegible]	0	0	0	0	12	15	25	14	5	0	0	0	15	11	0	14	0	3.6
7	50	30	30	30	45	43	60	60	30	60	60	60	60	60	25	40	60	0	60	60	60	60	60	[illegible]3	60	60	60	56	17	60	17	23.9
8	60	60	60	60	60	60	60	60	60	60	50	60	60	60	60	60	60		60	60	60	60	60	0	60	60	60	60	60	60	20	28.2
9	60	60	60	60	60	60	60	60	40	60	16	60	60	60	60	60	60	58	60	60	60	60	60	25	60	60	50	60	60	60	48	28.9
10	60	60	60	60	60	60	60	60	30	60	50	60	60	60	47	60	60	60	60	60	60	55	46	40	52	15	58	60	60	60	60	28.9
11	60	60	60	60	60	60	60	60	45	60	60	60	60	60	50	60	60	60	60	45	60	60	55	40	56	0	60	60	60	60	60	28.9
Noon	60	60	60	60	60	55	60	60	45	60	60	60	60	60	60	60	60	60	60	40	60	60	60	60	60	0	60	60	60	60	60	29.3
13	55	60	60	60	0	30	60	60	20	60	60	60	60	60	60	60	60	60	60	0	60	60	60	30	60	0	55	60	60	60	60	26.7
14	55	60	60	60	0	0	60	60	35	60	60	60	0	60	60	60	60	60	60	9	60	60	40	60	60	0	7	60	55	60	60	24.3
15	20	60	60	45	0	18	60	60	11	60	60	60	12	60	60	60	60	60	60	30	43	60	30	50	28	0	28	60	60	60	60	23.2
16	50	60	60	50	25	0	60	60	0	60	20	60	0	3	60	60	60	60	60	40	50	40	4	60	0	25	0	60	50	50	60	21.0
17	58	60	60	60	0	30	60	60	3	55	38	60	0	40	60	60	54	60	60	60	25	57	0	60	3	30	0	60	25	0	60	20.8
18	60	60	60	40	18	0	54	50	0	22	0	48	0	50	60	60	35	30	60	15	60	55	0	48	30	30	0	60	50	11	60	18.8
19	8	14	0	17	0	0	35	0	0	0	4	2	0	0	25	30	0	1	30	0	30	9	0	17	12	0	0	15	15	0	0	4.4

TABLE XI - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the Absolute Scale add 273)

DECEMBER, 1942.

Day / Hour	1d		2d		3d		4d		5d		6d		7d		8d		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of Air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	22.3	1.3	22.6	1.2	23.1	2.1	22.0	1.4	21.2	1.6	18.3	1.2	20.9	1.8	21.1	1.5	Midnight
1h	22.8	1.5	22.2	1.2	23.0	2.0	21.2	1.3	21.0	1.6	18.2	1.2	20.9	1.7	21.7	1.8	1h
2	22.3	1.4	21.3	0.9	22.9	2.2	21.1	1.3	21.0	1.8	18.1	1.1	20.1	1.5	21.2	1.3	2
3	22.1	1.3	21.6	1.1	22.1	1.9	21.1	1.2	20.6	1.7	18.0	1.1	20.4	1.3	21.1	1.2	3
4	22.1	1.2	22.1	1.2	21.9	1.8	21.2	1.2	20.0	1.7	18.1	1.1	20.9	1.8	20.3	1.2	4
5	22.1	1.1	21.9	1.2	21.7	1.7	21.3	1.3	20.0	1.3	18.2	1.2	20.7	1.7	19.8	1.1	5
6	22.4	1.3	22.1	1.1	22.1	1.4	21.2	1.2	19.7	1.3	18.4	1.3	20.6	1.5	20.6	1.1	6
7	24.3	1.5	24.1	2.0	23.1	1.9	22.3	1.3	24.3	3.1	21.0	1.0	24.2	3.4	25.2	2.9	7
8	26.0	3.3	25.7	3.1	26.0	4.5	24.3	2.5	26.1	4.1	25.0	3.7	25.5	4.5	26.2	3.8	8
9	27.0	1.4	26.0	3.3	26.9	5.0	26.0	3.9	26.9	5.3	26.2	5.1	26.2	5.7	27.3	4.4	9
10	27.9	5.6	26.9	4.6	27.3	5.4	26.2	4.9	27.1	5.1	27.0	5.8	26.9	5.5	28.1	5.2	10
11	27.7	5.0	27.0	4.1	27.3	5.2	27.0	5.0	28.2	6.0	27.1	5.8	28.0	6.3	28.1	5.2	11
Noon	27.9	5.3	27.3	4.7	27.3	5.2	28.0	5.9	26.2	4.3	27.0	5.4	28.0	7.1	28.2	5.0	Noon
13	25.7	3.4	27.6	5.0	27.1	4.8	28.2	5.9	24.2	2.6	26.6	5.3	28.7	7.0	28.8	5.8	13
14	27.6	6.0	27.9	5.0	27.6	5.6	27.9	5.8	23.7	1.7	26.1	4.9	27.9	6.8	28.8	5.7	14
15	26.9	4.7	27.3	5.2	27.2	5.2	27.1	5.5	23.1	1.2	26.1	4.0	28.2	6.8	28.9	5.8	15
16	26.8	4.6	26.9	4.9	26.7	4.7	27.0	6.0	24.9	2.0	26.0	4.0	27.7	6.0	28.2	5.2	16
17	26.6	4.4	26.6	4.7	25.0	2.9	26.0	5.1	24.1	2.9	25.1	4.1	26.7	5.1	27.9	5.2	17
18	25.3	3.3	25.6	3.9	24.8	3.2	25.1	3.9	23.7	1.6	24.2	4.0	25.7	4.4	26.2	3.9	18
19	24.2	2.4	24.1	2.6	23.9	3.0	23.8	3.6	22.2	1.9	23.7	3.4	24.9	3.6	25.2	3.0	19
20	23.9	2.0	23.3	2.1	23.2	2.2	23.3	3.0	21.6	2.0	23.0	2.4	23.1	2.6	24.6	2.5	20
21	23.3	1.8	23.3	2.1	22.9	2.3	22.4	2.1	20.3	1.2	21.4	1.8	22.1	2.1	24.0	2.1	21
22	23.1	1.6	23.0	2.0	22.9	1.7	22.0	2.1	20.1	1.1	20.9	1.9	21.6	1.8	23.0	1.9	22
23	22.9	0.8	23.6	2.6	22.1	1.5	21.9	2.0	19.1	1.5	20.9	1.9	21.9	1.9	22.5	1.8	23

Day / Hour	9d		10d		11d		12d		13d		14d		15d		16d		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	22.0	1.5	21.6	0.9	21.9	1.4	20.8	1.8	22.1	1.8	21.8	1.8	22.8	1.8	23.0	2.1	Midnight
1h	21.4	1.2	22.1	1.0	21.3	1.2	20.0	1.7	21.8	1.8	21.4	1.5	22.5	1.5	22.9	1.9	1h
2	21.1	1.1	21.6	0.8	21.1	1.2	19.9	1.7	21.1	1.7	21.1	1.4	22.1	1.3	22.3	1.4	2
3	21.0	1.1	21.4	0.7	21.5	1.4	19.9	1.7	20.9	1.7	21.2	1.4	22.0	1.5	22.2	1.2	3
4	20.9	1.2	22.1	0.9	21.0	1.3	19.8	1.7	21.1	1.8	20.8	1.5	21.9	1.7	22.1	1.0	4
5	20.3	1.1	21.7	1.0	20.3	1.2	20.0	1.4	20.8	1.9	21.0	1.4	22.0	1.6	22.1	1.2	5
6	20.4	1.0	21.4	0.9	20.5	1.3	22.0	1.2	20.1	1.2	21.7	1.4	22.2	1.6	22.2	1.1	6
7	24.2	2.0	23.9	1.4	24.2	2.4	24.6	2.1	24.1	2.6	25.0	3.0	23.3	1.6	24.1	1.9	7
8	26.7	3.5	25.3	2.7	25.6	3.4	26.1	3.4	26.2	4.5	26.1	4.0	26.2	4.2	25.2	2.9	8
9	26.9	4.0	26.8	4.2	26.1	4.0	27.3	4.8	26.8	5.0	27.2	5.2	26.9	4.6	26.3	4.3	9
10	28.9	5.5	27.5	4.9	27.7	5.5	27.7	5.1	27.2	5.4	28.0	5.7	25.3	3.2	27.2	4.4	10
11	28.4	5.1	27.9	5.1	28.3	6.0	28.3	5.3	28.6	6.2	28.2	6.2	26.9	4.4	27.9	5.2	11
Noon	29.1	4.9	29.1	5.3	29.0	6.4	28.5	6.4	29.0	6.8	28.3	6.4	27.9	5.8	28.2	5.9	Noon
13	28.6	4.9	28.1	5.1	29.1	7.2	28.9	7.2	28.9	6.9	29.0	7.0	27.8	5.5	28.3	5.8	13
14	28.2	5.0	28.9	5.1	29.1	7.3	28.1	4.8	27.3	4.6	29.1	7.3	27.7	5.4	28.0	5.8	14
15	27.2	3.6	28.4	5.3	28.0	6.3	28.7	6.5	27.0	4.4	28.0	5.9	27.2	4.7	28.1	6.2	15
16	24.3	1.4	27.9	5.2	27.3	5.5	28.1	6.0	26.2	4.2	27.0	5.0	26.9	4.8	27.9	5.7	16
17	25.0	1.4	26.9	4.7	26.5	5.7	27.3	5.4	26.1	5.0	26.9	5.3	26.3	4.7	27.1	4.9	17
18	25.0	1.5	25.6	3.6	25.6	5.3	26.0	4.5	25.3	4.8	25.8	4.1	25.3	4.0	25.9	4.0	18
19	24.0	1.3	24.4	2.9	24.3	3.5	24.6	3.6	23.8	3.6	24.6	3.6	24.4	3.3	25.1	3.3	19
20	23.3	1.2	23.2	2.2	23.7	2.8	24.0	3.0	23.1	2.8	23.6	2.9	23.9	2.2	24.2	2.5	20
21	22.7	1.6	22.6	1.7	22.9	2.7	23.6	2.6	22.6	2.6	23.1	2.4	23.3	2.1	23.8	2.2	21
22	22.7	1.5	22.6	1.8	22.1	2.1	23.0	2.3	22.2	2.2	22.6	2.2	23.2	2.3	23.3	2.0	22
23	21.9	1.0	22.0	1.7	21.2	1.9	22.3	1.8	22.0	2.0	22.8	1.8	23.0	2.3	23.2	1.9	23

TABLE XI (Ctd) - TEMPERATURE OF THE AIR AND EXCESS OVER TEMPERATURE OF EVAPORATION IN DEGREES CENTIGRADE AT EVERY HOUR OF THE DAY, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS.

(To obtain temperatures on the absolute scale add 273)

DECEMBER, 1942.

Day / Hour	17d		18d		19d		20d		21d		22d		23d		24d		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	23.1	2.1	24.1	2.4	[illegible]	2.6	20.2	2.2	22.6	1.9	24.0	2.2	24.1	0.9	[illegible]	1.0	Mid-night
1h	22.5	1.7	23.9	2.4	23.2	3.1	19.1	2.0	22.1	1.8	23.8	2.2	24.1	1.0	25.2	0.9	1h
2	22.6	1.7	23.4	2.1	23.9	3.7	18.7	1.8	21.7	1.7	23.6	2.0	24.2	0.7	25.3	1.0	2
3	22.4	1.4	22.7	1.4	23.2	3.2	18.4	1.7	21.4	1.8	23.1	2.0	23.9	0.9	25.1	0.9	33
4	22.4	1.3	22.3	1.2	21.1	2.1	18.1	1.8	21.0	1.9	22.5	1.6	24.0	0.8	24.8	0.8	4
5	22.8	1.6	22.0	0.9	21.0	2.3	18.0	1.9	19.7	1.8	21.9	1.8	24.1	0.8	24.2	0.6	5
6	22.7	1.5	22.4	1.3	21.3	2.1	18.3	1.1	19.8	1.5	23.2	1.5	24.1	0.8	24.8	0.9	6
7	24.7	2.6	23.0	1.9	24.6	4.0	23.2	3.2	24.1	3.2	25.7	2.7	25.2	1.4	25.6	0.9	7
8	26.0	4.0	24.2	3.7	26.2	5.2	26.0	5.4	26.1	4.9	27.6	4.6	26.3	2.4	26.3	1.4	8
9	27.2	5.1	25.9	4.8	27.1	6.2	27.3	6.0	27.0	5.3	28.3	4.3	27.0	3.0	28.1	2.8	9
10	27.1	5.0	27.0	5.8	27.9	6.9	28.1	6.7	28.0	5.9	29.0	4.8	27.3	3.1	29.3	3.5	10
11	28.0	5.0	27.3	6.3	28.2	7.1	28.0	5.9	28.0	5.7	29.4	5.2	26.7	1.8	29.2	4.0	11
Noon	29.0	6.7	27.6	6.3	28.7	7.9	27.1	5.4	28.9	5.7	29.9	5.8	28.3	3.3	30.3	4.5	Noon
13	28.0	4.8	28.0	6.9	28.9	7.1	25.4	3.4	29.5	6.7	30.0	5.4	28.8	3.9	30.0	4.2	13
14	28.7	6.0	27.9	7.0	28.2	6.2	25.1	2.2	29.2	6.3	29.1	4.8	28.1	3.2	30.7	4.7	14
15	29.0	6.7	27.7	6.7	28.0	6.8	26.7	4.0	27.9	5.1	26.2	2.4	28.3	3.3	30.2	4.4	15
16	28.2	6.0	27.6	7.6	27.9	7.0	27.4	4.2	28.3	5.6	27.0	3.0	26.0	1.3	30.1	4.9	16
17	27.1	5.0	26.6	5.4	26.8	5.9	27.2	4.2	27.1	4.9	27.0	2.9	26.1	1.6	28.9	4.6	17
18	26.0	4.3	25.1	4.7	25.6	5.3	26.1	3.7	26.2	4.7	25.9	2.2	26.0	1.6	27.8	3.6	18
19	25.0	3.2	24.2	4.1	24.2	4.3	25.1	3.1	25.0	3.9	25.5	1.8	25.6	1.2	26.7	2.6	19
20	24.2	2.3	23.2	3.3	23.1	3.4	24.1	3.0	24.4	3.3	24.9	1.7	25.6	1.0	25.6	1.6	20
21	24.1	2.4	22.2	2.6	21.9	3.0	23.3	2.2	24.6	3.2	24.3	1.2	25.4	0.8	25.0	1.7	21
22	24.0	2.6	22.9	3.1	20.8	2.8	23.0	2.1	24.2	2.6	24.1	0.4	25.0	0.9	24.3	1.1	22
23	24.1	2.4	23.1	2.8	20.8	2.6	22.9	2.2	24.3	2.3	23.9	0.7	25.3	0.8	24.0	1.2	23

Day / Hour	25d		26d		27d		28d		29d		30d		31d		Mean		Day / Hour
	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	Air	Excess of air over Evap.	
Midnight	23.9	1.1	23.1	1.2	[illegible]	1.1	23.2	0.9	25.4	2.1	22.4	1.6	24.0	1.8	22.5	1.6	Mid-night
1h	23.8	0.9	22.9	1.3	22.4	0.8	22.6	0.9	25.2	[illegible]	21.9	1.7	23.6	1.5	[illegible]	[illegible]	1h
2	23.2	0.9	22.9	1.4	22.1	0.9	22.0	0.9	25.1	1.9	21.4	1.5	23.1	1.2	[illegible]	[illegible]	2
3	23.0	1.0	22.7	1.3	22.0	0.9	21.9	0.9	24.2	1.3	21.2	1.3	23.4	1.3	21.8	[illegible]	3
4	22.8	1.0	22.3	1.1	22.0	0.9	21.8	0.9	24.1	1.4	21.1	1.2	23.8	1.4	21.6	1.3	4
5	22.8	1.0	22.0	1.1	21.9	1.1	21.6	1.0	23.6	1.5	21.1	1.1	23.3	1.1	21.4	1.3	5
6	22.8	0.8	22.4	1.1	21.8	0.8	21.8	0.8	23.1	1.4	21.2	1.2	24.0	1.5	21.7	[illegible]	6
7	26.1	1.6	24.8	1.7	25.2	1.4	25.0	1.7	25.8	2.4	24.9	0.8	25.0	1.8	24.3	[illegible]	7
8	27.3	2.4	27.1	2.8	26.5	2.3	26.5	2.2	28.1	3.8	27.3	3.7	24.8	1.5	25.1	[illegible]	8
9	29.0	4.1	28.7	4.1	27.7	3.1	28.0	3.1	29.1	4.5	28.0	4.0	27.0	3.3	27.2	[illegible]	9
10	29.4	1.1	28.1	3.5	29.1	3.8	29.0	4.1	30.0	5.2	28.4	4.3	28.3	4.5	27.8	[illegible]	10
11	29.9	4.3	26.6	1.6	30.0	4.3	29.5	4.2	30.0	5.0	29.3	5.2	28.7	5.0	28.2	[illegible]	11
Noon	30.7	4.8	25.0	1.5	30.8	5.0	30.2	4.1	31.0	5.0	31.4	5.8	29.0	6.3	28.6	5.4	Noon
13	31.3	5.2	25.1	1.7	30.3	5.0	30.3	4.3	30.6	4.9	31.2	7.1	29.1	5.9	28.5	5.4	13
14	31.5	5.3	24.8	1.5	29.2	4.3	30.8	5.0	30.6	5.4	31.6	7.0	29.2	5.5	28.3	5.2	14
15	29.1	4.1	25.3	1.4	30.0	5.0	31.0	5.4	31.1	5.3	31.5	6.7	29.2	6.2	28.0	5.0	15
16	28.2	3.5	26.6	2.4	28.5	4.4	30.3	5.4	29.6	5.7	30.3	6.1	29.1	5.3	27.6	4.8	16
17	27.7	3.5	26.9	2.9	25.1	2.5	29.3	4.6	28.1	5.1	28.9	4.8	28.7	4.8	26.8	4.3	17
18	27.9	3.7	26.9	2.3	24.3	1.2	28.8	4.5	27.2	5.2	27.9	3.6	27.2	4.3	25.9	3.7	18
19	26.9	2.8	26.0	2.0	24.1	1.4	27.5	3.5	26.1	3.9	26.6	3.3	26.1	3.0	24.9	3.0	19
20	25.7	1.9	25.0	1.4	24.1	1.0	26.1	2.1	24.9	2.7	25.7	2.4	25.1	2.3	24.1	2.3	20
21	24.6	1.6	24.1	1.0	24.2	0.8	26.1	2.6	24.1	2.0	24.8	1.9	24.4	1.9	23.5	2.0	21
22	24.0	1.7	23.6	1.1	24.1	0.8	25.3	2.1	23.7	1.8	24.3	1.5	24.1	1.2	23.1	1.8	22
23	23.6	1.4	23.1	1.0	23.9	1.1	25.4	2.3	23.0	1.8	24.1	1.5	23.9	1.7	22.9	1.8	23

TABLE XII - DIRECTION AND VELOCITY OF THE WIND AT EVERY HOUR OF THE DAY AS RECORDED BY THE ROBINSON CUP ANEMOMETER DURING DECEMBER, 1942.

The directions are given in points and the values indicate the direction from which the wind blows counting from North (0), East (8), South (16) and West (24).

The velocities are given in metres per second, using the factor 2.2.
(The days on which the Normal Trade Winds are interrupted are indicated by an asterisk @).

DECEMBER, 1942.

Hour \ Day	1d.		2d.		3d		4d		5d @		6d @		7d		8d		9d @		10d		11d		12d		13d@		14d		15d		16d	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Mid-night	11	1.9	10	1.8	10	2.5	12	2.1	09	1.4	15	2.2	08	2.9	10	1.2	06	1.1	11	2.3	11	1.3	15	0.9	11	1.1	12	1.3	13	2.1	10	2.7
1h	11	2.0	10	2.7	10	2.7	12	1.9	11	1.8	15	2.1	08	2.1	10	1.2	11	1.7	10	1.3	12	2.1	15	0.6	11	1.1	12	1.7	13	2.0	11	1.7
2	10	2.2	10	2.2	10	2.3	12	1.9	11	1.8	15	2.5	08	1.4	10	1.2	11	1.6	11	1.8	11	1.3	15	0.7	11	0.9	12	1.6	12	1.9	11	2.3
3	10	2.0	10	2.6	10	1.9	12	1.8	11	0.7	14	2.1	08	2.1	10	1.1	11	1.5	11	1.8	11	1.2	15	1.0	11	1.4	11	1.8	11	2.3	11	2.0
4	10	2.2	07	2.9	10	2.3	12	2.1	11	1.5	14	1.5	08	2.1	10	1.2	11	1.8	11	1.8	11	1.1	15	0.6	11	1.3	11	1.6	11	2.1	11	2.1
5	10	1.8	10	1.8	10	2.7	12	2.1	11	1.8	14	1.1	08	2.0	10	1.4	11	1.7	11	1.9	11	1.4	15	1.0	11	1.5	11	1.4	11	2.9	11	2.6
6	08	2.0	10	2.5	10	2.7	12	2.3	11	1.1	14	1.4	08	1.3	10	1.1	11	1.9	11	1.7	11	0.7	12	1.8	11	1.4	11	1.5	11	2.7	12	2.3
7	10	2.1	10	3.7	11	3.4	08	3.6	11	2.0	14	1.2	07	2.0	10	1.8	11	1.4	11	1.6	12	1.1	11	2.7	11	1.3	11	2.0	11	2.9	12	2.9
8	07	3.7	08	4.6	09	5.9	09	4.6	10	3.6	12	2.1	05	3.1	08	2.9	08	1.9	06	2.7	11	3.1	10	3.4	07	2.7	09	2.4	09	4.3	09	3.7
9	07	4.2	06	4.9	08	6.1	09	4.8	07	2.3	10	2.0	05	3.5	11	3.1	04	2.2	06	3.2	08	3.3	10	3.1	07	3.2	09	2.8	08	4.9	09	4.0
10	08	4.6	06	6.0	07	6.3	08	4.6	08	3.0	08	3.0	06	2.8	07	3.3	06	2.6	06	3.0	06	3.8	07	3.9	11	2.4	06	3.2	07	3.6	06	4.7
11	08	4.6	07	5.8	09	5.9	07	5.0	09	3.1	07	3.2	04	3.1	08	3.8	05	3.3	07	3.0	09	3.2	11	3.5	09	3.3	09	3.5	08	4.7	06	5.0
Noon	08	4.5	07	5.3	07	6.0	07	4.0	08	4.9	07	3.2	06	2.9	08	4.1	03	3.7	05	3.8	10	4.4	11	4.0	10	5.0	09	4.2	06	4.5	07	4.4
13	09	5.3	06	5.6	07	6.3	06	3.4	r25	2.4	07	2.0	03	3.7	08	4.0	05	3.4	06	3.6	09	4.4	09	4.1	08	4.[illegible]	07	4.0	06	5.4	12	4.5
14	09	5.0	08	5.3	08	6.6	08	3.9	18	2.0	15	2.1	06	3.5	06	3.9	05	3.1	07	4.1	12	4.5	08	4.5	14	2.3	11	4.6	07	5.5	08	4.8
15	07	4.5	05	5.7	09	5.6	08	3.4	r04	2.0	d25	3.1	05	3.7	06	3.8	d18	3.3	06	4.1	10	4.4	08	5.0	17	2.4	11	3.3	09	5.4	08	4.7
16	09	4.4	09	5.3	07	5.6	11	4.0	02	1.6	26	2.7	05	3.5	05	3.8	21	2.7	06	3.4	12	3.5	09	4.8	12	3.9	11	2.7	09	6.0	09	4.8
17	09	4.9	09	4.8	07	4.4	09	2.7	09	2.1	d07	2.9	06	2.8	05	3.5	21	1.8	07	3.3	11	4.1	09	4.4	11	3.4	10	3.8	09	6.1	12	4.9
18	10	4.7	08	4.3	08	4.0	09	3.1	d19	1.2	08	2.3	07	2.6	06	2.5	20	0.7	07	2.0	12	3.8	10	4.3	10	2.3	10	3.6	09	5.3	11	4.2
19	09	3.5	10	2.9	09	4.2	08	2.3	18	1.8	08	1.3	08	1.6	06	2.2	d31	0.8	07	1.2	12	2.2	10	2.8	11	2.0	10	2.8	09	3.4	12	3.9
20	09	2.8	10	1.8	09	4.2	08	1.2	15	1.6	07	1.3	07	1.2	06	1.7	31	1.2	07	1.1	12	1.3	10	1.7	12	1.2	11	1.6	09	2.6	11	2.6
21	09	2.8	10	2.2	09	2.5	08	1.2	15	1.0	07	1.1	10	1.8	06	1.1	31	1.7	07	1.2	12	1.5	10	1.7	12	2.1	11	1.2	10	3.4	10	2.2
22	09	2.0	10	2.2	09	2.5	08	1.7	15	0.8	07	1.7	10	1.4	06	0.7	d10	1.8	12	1.5	12	0.9	11	1.4	11	1.5	11	2.2	10	3.4	11	2.1
23	04	1.8	10	3.7	09	2.6	09	1.3	15	1.4	07	2.1	10	1.2	06	0.7	11	1.6	11	1.3	12	0.9	11	1.3	12	1.7	11	2.2	10	2.7	11	2.1

Hour \ Day	17d		18d		19d		20d@		21d		22d		23d		24d@		25d @		26d @		27d @		28d@		29d@		30d@		31d		Mean Velo-city
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	
Mid-night	11	2.1	11	2.3	10	2.6	12	2.4	11	2.7	12	3.6	09	4.5	09	2.8	07	1.1	06	1.7	02	1.2	12	1.1	06	1.6	07	1.6	10	1.8	2.0
1h	11	1.6	10	2.0	09	3.0	12	1.6	11	1.4	12	3.0	09	4.7	07	3.0	07	1.0	11	1.3	02	1.1	12	1.1	06	1.1	11	1.4	10	1.2	1.9
2	11	1.9	10	1.3	08	3.5	12	1.8	14	1.9	12	1.8	09	4.3	07	2.3	07	1.5	11	1.6	02	1.5	12	0.8	06	0.8	11	2.0	11	1.6	1.8
3	11	1.9	13	2.6	09	2.8	12	1.2	14	1.8	12	1.3	10	4.4	06	2.7	07	0.9	11	1.7	02	1.3	12	1.8	06	1.5	11	1.6	11	1.8	1.8
4	11	2.6	13	1.8	10	2.3	12	2.0	14	1.3	12	0.9	09	3.6	06	1.5	07	1.2	11	1.3	02	1.4	12	1.4	06	1.3	11	1.8	11	2.0	1.8
5	12	2.1	07	3.3	10	2.3	12	1.8	14	0.7	12	1.3	10	3.5	06	1.7	07	1.1	11	1.8	09	1.6	12	1.4	06	1.2	11	1.8	11	1.5	1.8
6	12	2.2	09	2.6	10	1.5	12	1.7	14	1.3	12	2.2	09	3.4	06	1.6	07	1.1	11	1.3	09	1.5	12	1.2	06	1.3	11	1.8	11	1.9	1.8
7	10	3.8	08	2.7	11	2.2	12	1.1	14	2.7	11	3.6	09	3.6	06	1.9	07	1.0	11	0.7	09	1.1	12	1.1	06	0.8	11	1.2	10	2.0	2.1
8	10	4.5	09	4.0	11	4.4	12	2.9	11	4.1	11	4.5	09	4.2	04	2.2	07	2.0	08	1.2	09	0.8	06	2.1	04	2.6	05	1.6	10	2.1	3.2
9	10	5.3	09	5.4	11	4.8	12	2.9	12	3.8	13	6.1	09	4.5	03	3.5	08	2.1	07	2.0	32	2.7	04	2.1	04	2.4	05	2.6	07	2.8	3.6
10	09	5.6	09	5.7	10	5.0	12	2.5	12	5.0	12	6.3	08	5.3	03	4.0	04	3.0	02	2.1	02	3.3	32	2.5	04	2.6	06	2.1	07	3.2	3.8
11	11	5.3	10	5.7	08	5.2	22	3.4	13	4.9	11	5.9	11	5.1	03	4.3	02	4.3	d08	1.8	31	3.3	01	3.5	32	3.6	03	3.6	06	4.4	4.3
Noon	09	5.1	09	5.9	11	4.6	r26	2.4	10	4.6	12	6.6	09	4.9	04	4.1	03	3.2	32	1.8	28	3.3	02	3.7	30	2.5	07	2.7	06	2.8	3.9
13	09	5.8	09	5.0	11	5.8	23	3.0	12	5.6	09	5.8	11	5.5	01	4.5	02	4.5	08	1.2	30	2.8	32	4.3	02	3.9	05	3.3	08	3.1	4.2
14	09	5.3	11	5.2	09	5.5	21	3.4	12	6.2	10	5.8	09	5.0	31	4.4	31	4.4	06	1.2	31	3.1	28	4.2	02	3.1	01	3.5	06	3.3	4.2
15	09	4.9	09	5.3	08	5.7	23	2.3	13	5.9	10	5.8	09	4.9	32	3.9	30	3.4	05	0.6	01	2.7	28	4.0	03	3.2	05	3.0	06	3.6	4.0
16	11	4.5	09	5.0	09	5.6	24	2.2	13	6.5	09	5.3	10	4.1	02	3.9	30	1.7	05	1.1	r24	1.8	30	3.3	05	2.1	05	2.4	06	3.3	3.7
17	11	4.9	09	4.6	11	5.9	26	1.7	13	6.5	11	5.2	10	4.4	04	3.7	31	1.0	05	0.6	d07	1.8	28	2.7	07	1.9	06	1.9	06	3.9	3.6
18	09	4.8	09	4.1	10	5.1	24	0.9	13	6.9	09	4.8	10	3.8	04	2.8	03	1.1	02	1.1	d17	1.6	29	2.4	07	1.8	d18	1.5	07	2.1	3.1
19	12	3.7	12	3.1	11	3.4	24	1.1	14	5.3	10	4.2	08	4.1	04	1.8	03	1.1	02	0.9	12	1.2	32	1.3	07	1.6	r07	1.3	07	2.1	2.4
20	11	2.2	11	2.0	12	1.8	r11	2.2	13	2.2	11	4.5	09	4.0	04	1.1	03	0.7	02	0.9	12	1.2	04	2.0	07	1.1	07	1.8	07	1.1	1.9
21	11	2.2	11	2.0	12	2.2	11	2.7	13	2.8	10	5.5	09	3.1	04	0.6	03	1.1	02	1.2	12	1.2	04	1.6	07	1.0	11	1.9	07	1.1	1.9
22	11	1.1	10	2.8	12	2.7	11	2.3	12	2.6	08	4.3	07	3.0	04	1.0	03	1.1	02	1.2	12	1.2	04	1.2	07	1.1	10	2.3	07	1.1	1.8
23	10	2.0	10	1.7	11	1.6	11	2.9	12	4.4	08	5.0	08	3.0	04	1.2	03	1.3	02	1.3	12	1.5	06	1.0	07	1.8	10	1.8	07	1.0	1.9

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS), DECEMBER, 1942.

Force (0-12)				Direction															
Hour	8 or above	4 to 7	0 to 3	[illegible]	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
3	-	-	31	-	1	-	2	3	[illegible]	17	2	1	-	-	-	-	-	-	-
9	-	2	29	1	-	6	2	14	3	5	-	-	-	-	-	-	-	-	-
15	-	5	26	2	-	6	3	10	2	2	-	1	1	-	-	2	-	1	1
21	-	1	30	1	1	3	1	8	6	10	-	1	-	-	-	-	-	-	-
Totals				4	2	15	8	35	16	[illegible]	2	3	1			2		1	1

TABLE XIVa - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY FOR DECEMBER, 1942.

Day / Hour	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31
	mm.	mm.	mm.	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	0.1	..	..	..	..	..	..	..	..	0.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	0.7	..	..	..	..	0.6	2.3	..	..	..	..	..	..	..
4	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..
5	0.1	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	1.7	..	..	..	..	0.1	..	..	..	..	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	0.3	..	0.3	..	0.1	0.1	1.6	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	0.1	..	..	..	..	..	..	1.2
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	0.1	..	..	..	..	..	..	2.5
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	..	0.1	..	..	3.3	..	..	..	..	..
Noon	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	0.7	..	..	..	..	..
14	..	..	..	..	3.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.0	..	..	..	..	..	0.1	..	..	..	..	..
15	..	..	..	..	7.4	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	1.1	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	..	..	2.6	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..
17	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4.0	..	..	..	..
18	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.3	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.5	..	..	..	..
20	..	..	..	..	..	..	..	..	0.6	..	..	..	..	..	0.1	..	..	..	..	..	..	..	0.1	..	..	..	0.1	0.3	..	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.3	0.1	..	..	..	..	..	..	..	..
22	..	..	0.1	..	..	..	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	3.1	..	..	..	..	..	..	..	..	..
23	3.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3.4	..	..	..	..	..	..	..	..	..
24	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE XIVb - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR DECEMBER, 1942.

Day / Hour	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	..	0.1	[illegible]	..	..	..	..	..	..	..	..	..	..	..	..	..	0.8	..	..	..	..	0.3	[illegible]	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	0.1	2.5	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	0.9	..	..	..	..	1.7	..	..	..	..	..	..	..	..
4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	2.0	..	..	..	..	0.4	0.5	..	..	..	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	0.2	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	0.7	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	1.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	0.1	..	0.2
8	..	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	1.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..
10	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..
Noon	..	..	..	..	2.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	0.2	..	..	..	..	..	..	..
13	..	..	..	..	15.1	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6.0	..	..	..	..	..
14	0.3	..	..	..	0.1	..	..	..	24	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	1.2	7.3	..	..	..	..
15	..	..	..	..	..	22.4	..	..	2.3	..	..	..	..	..	0.9	0.2	..	..	..	..	..	..	0.1	..	7.8	0.2	..	..	..	..	..
16	..	..	..	..	0.1	0.8	..	..	..	..	..	..	..	..	1.5	..	..	..	..	..	..	..	1.4	0.2	1.0	..	4.9	..	..	..	..
17	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5.8	..	0.4	0.1	0.2	..	20	..	..
18	..	..	..	..	..	..	..	0.8	16.3	..	..	..	..	..	..	..	..	..	..	..	..	0.8	..	..	..	..	..	..	..	1.0	..
19	..	..	..	..	..	..	..	..	5.3	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	1.2	..	..	..	..	..	..	..	..	..	..	..	..	3.3	0.2	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.5	0.4	..	0.1	..	1.9	1.0	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	1.3	0.2	..	..	..	..	0.9	..	..	..
23	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	5.5	0.6	..	..	..	..	..	..	..	..
24	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.9	..	..	0.1	5.9	0.1	..	..	..	..	..	..	..	..

TABLE XV — TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR DECEMBER, 1942

RIVER SYSTEM	STATIONS	Approximate Altitude in feet	Total Fall		Normal in Inches	Number of days
			Inches	Millimetres		
1	Mare Seche	20	0.95	24.1	3.90	9
	St Antoine	50	1.81	46.0	3.69	6
	Bel Mont	50	1.57	39.9	4.39	3
	Poudre d'Or	20	1.52	38.6	4.08	3
	Mon Loisir S.E.	300	1.19	30.2	5.22	11
	Forbach	300	3.19	81.0	3.60	8
	Couroupa	...	3.65	92.6	5.98	4
	Labourdonnais	290	2.09	53.0	5.04	6
	Beau Sejour	300	2.57	65.3	5.46	10
	Mont Piton	650	5.10	129.5	6.42	8
	Mon Choix	700	5.84	148.3	5.93	10
	Antoinette	640	3.78	96.0	6.17	10
	Mon Songe	620	4.22	107.2	6.49	7
	Botanical Gardens	325	2.68	68.1	5.92	17
	The Observatory	179	2.17	55.1	4.68	21
	Solitude	175	...	...	3.70	..
	St Andre-Cour	90	...	...	4.08	..
	La Nicoliere	...	6.91	175.5	6.59	18
	California	...	7.15	181.6	6.81	13
	Australia	...	7.44	189.0	...	10
2 & 3	Union Regnard S.E.	600	3.37	85.6	6.91	11
	Constance la Gaiete	100	3.96	100.6	6.99	10
	Rich Fund	600	4.31	109.5	6.87	11
	La Joffrette	...	2.80	71.1	...	8
	Belle Vue Allendy	...	3.80	96.5	8.56	9
4	Sans Souci	900	8.84	224.5	10.74	18
	Beau Champ G.R.S.E.	20	2.78	70.6	6.24	15
	Olivia	400	6.83	173.5	8.92	15
	Trois Ilots	...	...	...	...	...
	Belle Rive	400	6.22	158.0	10.45	17
	Sebastopol	700	...	...	...	...
	Bonne Veine	400	8.47	215.1	14.06	18
5	Rose Belle	850	11.18	284.0	11.11	22
	New Grove	650	11.78	299.2	...	19
	Mon Tresor	...	8.00	203.2	...	14
	Mon Desert Carie	75	2.32	58.9	5.87	11
	Ferney	20	5.20	132.1	8.55	17
	Sauveterre	...	3.37	85.6	...	14
	Tivoli	1300	10.00	254.0	10.59	22
	La Flora	1050	13.19	335.0	9.76	21
	Riche Bois	650	7.54	191.5	10.01	14
6	Britannia S.E.	700	10.92	277.4	9.05	19
	Savannah Mill	200	3.61	91.7	6.49	14
	St Aubin	300	...	...	7.53	..
	St Avold	900	11.42	290.1	9.56	22
	Colmar	400	10.55	268.0	8.47	18
	Union S.E.	...	6.04	153.4	6.34	10
	Fontenelle	320	5.05	128.3	6.39	9
	Choisy	200	6.27	159.3	6.00	10
	Beau Bois	...	...	...	8.51	..
	Bel Air	...	4.73	120.1	7.02	8
	St Felix	...	6.00	152.4	...	7
7, 8, 9 & 10	Bel Ombre	40	3.37	85.6	5.40	16
	Beau Champ B.du Cap	70	7.00	177.8	5.28	16
	Frederica	...	7.27	184.7	...	14
	Pierrefonds	...	6.55	166.4	8.28	12
	Ste Marie	...	7.79	197.9	...	15
	Hussonia	...	...	...	...	..
11	Curepipe Gardens	1840	8.56	217.4	10.53	16
	Mare aux Vacoas G. End	1850	10.37	263.4	11.07	20
	Mare aux Vacoas Arnaud	1030	11.79	299.5	11.43	22
	La Marie Filter Beds	1700	10.10	256.5	9.00	19
	Meteorological Station	1393	...	...	9.10	..
	Reunion	1420	11.28	286.5	8.80	12
	Quatre Bornes	...	5.73	145.5	...	11
	Phoenix	...	7.99	202.9	7.60	8
	Le Reduit Dep. of Agriculture	1000	6.44	163.7	6.60	21
12	Quatre Bornes Board	1090	5.96	151.4	...	8
	Bagatelle	1250	10.35	262.9	7.05	8
	Alma	1460	8.47	215.1	11.14	18
	Trianon	950	6.08	154.4	6.88	11
	Highlands	1300	5.88	149.4	8.59	10
	Bassin	...	5.19	131.8	9.80	9
	Vallery	1100	...	...	7.15	..
	Ebene	...	7.80	198.1	...	10
	Ermitage	1450	9.42	239.3	12.90	9
	Mon Reve	...	6.90	175.3	...	9
	Bega	...	6.31	160.3	...	9
	Minissy	1150	7.58	192.5	9.25	9
	Mont Revril	...	7.43	188.7	...	9
	La Ferme	350	5.17	131.3	5.55	12
	Plaisance	...	1.72	43.7	...	7
13	Line Barracks	...	2.04	51.8	...	12
	Richelieu Res. Station	...	2.37	60.2	...	10

TABLE XVB - TOTAL ANNUAL RAINFALL AT VARIOUS STATIONS IN MAURITIUS GROUPED ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR THE YEAR, 1942.

RIVER SYSTEM	STATIONS	Approximate Altitude in feet	Total Fall		Normal
			Inches	Millimetres	Inches
1	Mare Seche	20	27.42	696.4	47.43
	St Antoine	50	32.61	828.3	45.94
	Bel Mont	50	32.43	823.9	50.12
	Poudre d'Or	20	36.81	935.0	48.75
	Mon Loisir S.E.	300	43.03	1093.0	58.47
	Forbach	300	41.54	1055.2	47.76
	Couroupa	...	38.51	978.0	59.55
	Labourdonnais	290	42.78	1086.5	57.60
	Beau Sejour	300	43.46	1103.8	68.27
	Mont Piton	650	47.53	1207.2	70.46
	Mon Choix	700	48.90	1242.0	65.07
	Antoinette	640	57.02	1448.3	59.98
	Mon Songe	620	...	...	73.92
	Botanical Gardens	[illegible]	38.09	967.6	60.13
	The Observatory	179	37.55	953.7	49.75
	Solitude	175	...	...	38.27
	St Andre Cour	90	...	...	45.20
	La Nicoliere	...	70.80	1798.3	94.39
	California	...	73.19	1859.0	74.09
	Australia	...	...	...	...
2 & 3	Union Regnard S.E.	600	59.74	1517.5	76.76
	Constance la Gaiete	100	40.77	1035.5	67.09
	Rich Fund	600	65.93	1675.3	83.19
	La Joffrette	...	55.88	1419.4	...
	Belle Vue Allendy	...	42.99	1092.0	78.08
4	Sans Souci	900	...	...	138.35
	Beau Champ (G.R.S.E.)	20	49.85	1266.0	61.75
	Olivia	400	72.55	1842.7	94.26
	Trois Ilots	...	...	...	...
	Belle Rive	400	79.68	2023.9	112.21
	Sebastopol	700	...	...	...
	Bonne Veine	400	105.76	2686.3	130.07
5	Rose Belle	850	99.09	2517.0	140.27
	New Grove	650	...	...	...
	Mon Tresor	...	[illegible]	[illegible]	...
	Mon Desert Carie	75	41.62	1057.1	62.01
	Ferney	20	68.59	1742.2	91.50
	Sauveterre	...	44.17	1121.8	...
6	Tivoli	1300	113.21	2875.6	138.28
	La Flora	[illegible]	104.06	2643.1	135.57
	Riche Bois (Britannia)	650	75.52	1918.1	104.27
	Britannia Estate	700	86.59	2199.3	108.47
	Savannah Mill	200	53.95	1370.3	77.13
	St Aubin	300	...	...	77.01
	St Avold	900	98.35	2498.0	117.68
	Colmar	400	88.48	2247.3	92.91
	Union S.E.	...	71.66	1820.1	67.56
	Fontenelle	320	60.17	1528.3	77.54
	Choisy	200	79.50	2019.2	63.40
	Beau Bois	...	...	...	...
	Bel Air	...	...	...	...
	St Felix	...	...	...	...
7, 8, 9 & 10	Bel Ombre	40	66.69	1693.9	62.04
	Beau Champ(Baie du Cap)	70	63.67	1617.2	59.09
	Frederica	...	72.02	1829.4	68.33
	Pierrefonds	...	[illegible]	1217.9	56.32
	Ste Marie	...	69.62	1773.5	...
	Hussonia	...	...	...	...
11	Curepipe Gardens	[illegible]	86.26	2445.0	[illegible]
	Mare aux Vacoas G. End	[illegible]	120.44	3059.2	145.95
	Mare aux Vacoas Arnaud	1800	155.68	3954.2	148.62
	La Marie Filter Beds	1700	92.30	2344.5	104.00
	Reunion	1420	73.76	1873.6	88.35
	Aerological Station	1393	...	...	90.47
	Phoenix	...	66.75	1695.4	...
	Quatre Bornes	...	39.71	1008.7	...
12	Quatre Bornes Board	1090	36.16	918.5	...
	Le Reduit Dep. of Agric.	1000	41.37	1050.8	57.90
	Alma	1460	92.20	2341.8	126.60
	Bagatelle	1250	69.87	1774.6	79.35
	Highlands	1300	61.61	1564.8	88.00
	Trianon	950	40.83	1037.1	63.17
	Val Ory	1100	...	...	...
	Bassin	...	43.97	1116.8	63.21
	Hermitage	1450	71.87	1825.6	126.69
	Ebene	...	45.96	1167.4	...
	Bega	...	44.26	1124.2	...
	Mon Reve	...	53.20	1351.2	...
	Mont Pevril	...	39.79	1010.7	...
	Minissy	1150	57.08	1449.7	65.95
	Plaisance	...	40.07	1017.8	...
	La Ferme	...	35.18	893.5	49.80
13	Line Barracks	...	22.20	563.8	...
	Richelieu Res. Station	...	20.73	526.6	...

TABLE XVI - PILOT BALLOON OBSERVATIONS FOR THE MONTH OF DECEMBER, 1942.

Date	Time	Surface		250 metres		500 metres		750 metres		1,000 metres		1,500 metres		2,000 metres		2,500 metres		3,000 metres		3,500 metres		4,000 metres	
		Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity
		o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.	o	m.p.s.
1	8.54	094	3.3	074	3.3	074	4.9	081	7.6	085	10.1	088	9.3	..	..	..	..	..	..	..	..	..	..
2	9.30	076	6.0	069	5.5	076	4.8	086	4.9	094	8.1	098	9.9	..	..	..	..	..	..	..	..	..	..
3	9.18	089	13.9	096	8.4	092	17.3	090	14.3	093	12.6	097	12.5	..	..	..	..	..	..	..	..	..	..
4	9.12	078	7.1	095	6.2	107	3.7	098	5.1	094	7.2	092	8.2	..	..	..	..	..	..	..	..	..	..
5	8.53	066	7.2	080	2.4	094	1.6	128	2.7	124	2.9	..	..	..	..	..	..	..	..	..	..	..	..
6	9.06	238	1.6	026	1.1	063	3.6	064	6.6	073	6.5	072	5.3	..	..	..	..	..	..	..	..	..	..
7	9.05	054	5.1	055	5.6	058	7.5	052	7.8	066	7.3	075	6.6	..	..	..	..	..	..	..	..	..	..
8	9.14	058	3.1	082	3.1	080	4.6	073	3.4	066	2.7	..	..	..	..	..	..	..	..	..	..	..	..
9	8.52	345	4.3	031	3.3	060	4.1	060	7.1	082	4.2	068	3.8	..	..	..	..	..	..	..	..	..	..
10	9.13	073	3.4	071	3.1	062	8.1	062	6.5	058	6.3	..	..	..	..	..	..	..	..	..	..	..	..
11	7.50	063	3.0	093	4.3	090	6.4	087	6.5	092	4.7	090	5.2	..	..	..	..	..	..	..	..	..	..
12	9.07	067	2.6	084	5.3	088	4.9	105	4.4	123	4.0	122	8.4	..	..	..	..	..	..	..	..	..	..
13	8.53	095	6.6	080	4.6	095	1.2	122	1.6	131	0.9	..	..	..	..	..	..	..	..	..	..	..	..
14	8.57	070	1.2	126	1.3	119	1.8	061	3.5	075	4.6	071	4.0	..	..	..	..	..	..	..	..	..	..
15	9.00	102	4.8	081	6.1	082	22.2	087	13.5	171	1.3	095	3.2	..	..	..	..	..	..	..	..	..	..
16	8.58	080	[illegible].1	098	3.0	090	6.3	085	7.4	080	7.2	057	4.8	..	..	..	..	..	..	..	..	..	..
17	8.57	106	[illegible].1	090	2.6	104	6.5	109	7.9	097	9.3	094	9.0	..	..	..	..	..	..	..	..	..	..
18	9.23	104	4.4	101	3.2	103	6.7	100	14.5	098	9.5	095	8.5	..	..	..	..	..	..	..	..	..	..
19	9.12	107	6.1	112	8.6	111	14.1	122	9.0	136	5.8	151	3.8	..	..	..	..	..	..	..	..	..	..
20	9.05	286	5.0	231	0.8	138	3.0	113	5.6	101	8.3	102	8.1	..	..	..	..	..	..	..	..	..	..
21	9.28	141	4.3	134	2.9	114	5.3	114	4.5	111	3.6	109	3.1	..	..	..	..	..	..	..	..	..	..
22	8.59	130	8.1	147	3.5	132	4.3	119	5.7	111	3.0	120	5.7	..	..	..	..	..	..	..	..	..	..
23	9.23	080	12.5	076	11.9	141	0.6	088	6.5	092	13.7	093	13.7	..	..	..	..	..	..	..	..	..	..
24	9.23	008	6.5	034	4.3	042	6.6	025	8.7	022	[illegible]2	026	9.3	..	..	..	..	..	..	..	..	..	..
25	9.05	340	5.6	356	3.5	075	3.6	061	4.2	055	4.7	..	..	..	..	..	..	..	..	..	..	..	..
26	9.00	327	4.4	351	2.6	051	2.0	082	1.5	043	2.3	034	3.0	..	..	..	..	..	..	..	..	..	..
27	9.08	019	2.2	015	1.5	014	2.5	005	4.3	353	5.1	345	4.8	..	..	..	..	..	..	..	..	..	..
28	9.15	352	4.2	018	2.9	051	3.9	052	4.8	041	5.0	041	4.7	..	..	..	..	..	..	..	..	..	..
29	9.04	002	7.6	016	5.1	044	5.1	062	4.4	068	3.2	090	2.2	..	..	..	..	..	..	..	..	..	..
30	[illegible].05	023	4.9	049	4.2	068	4.6	066	5.9	064	6.4	060	4.4	..	..	..	..	..	..	..	..	..	..
31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE XVII - MONTHLY AND YEARLY MEANS AND EXTREMES OF THE METEOROLOGICAL ELEMENTS FOR THE YEAR 1942

Month 1942	Atmospheric Pressure mbs	Temperature of the Air: Absolute Maxima °C	Absolute Minima °C	Absolute Range °C	Mean of the daily Maxima °C	Mean of the daily Minima °C	Mean of the daily Ranges °C	Mean	Excess of Air Temperature over Evap ration Temperature °C	Temperature of the Dew Point °C	Relative Humidity %	Vapour Pressure mbs	Rainfall: Amount recorded by the Beckeley pluviograph mms	Duration mins	Mean Minimum on grass °C
January	1007.6	31.5	20.2	11.3	30.3	22.6	7.7	26.1	3.1	21.5	76.2	25.7	46.5	1200	20.2
February	1006.1	33.1	21.4	11.7	31.3	23.5	7.8	26.9	2.8	22.8	78.6	27.8	94.7	1445	21.2
March	1004.0	32.8	21.6	11.2	30.6	23.2	7.4	26.3	2.4	22.8	81.3	27.8	210.2	2135	20.1
April	1008.9	29.2	19.1	10.1	27.4	21.7	5.7	24.2	2.3	20.7	80.8	24.4	163.9	2390	18.9
May	1011.0	28.2	16.3	11.9	26.3	19.6	6.7	22.5	2.9	17.9	75.2	20.7	17.5	500	16.7
June	1012.3	26.1	13.6	12.5	24.8	16.8	8.0	20.4	2.5	16.2	77.1	18.5	31.6	965	14.0
July	1015.8	24.9	13.0	11.9	24.0	16.8	7.2	20.0	2.9	15.1	73.8	17.2	46.2	1925	13.5
August	1014.6	25.8	13.1	12.7	24.1	16.8	7.3	20.1	2.7	15.6	75.7	17.9	55.4	1625	13.1
September	1014.0	26.5	14.7	11.8	25.0	16.9	8.1	20.6	2.7	16.1	75.7	18.3	65.2	2095	12.9
October	1012.4	28.3	13.7	14.6	25.6	17.6	8.0	21.3	3.1	16.2	73.1	18.3	68.7	1615	13.5
November	1010.6	30.1	15.0	15.1	28.6	19.2	9.4	23.5	3.2	18.5	73.5	21.4	98.7	925	15.5
December	1008.3	31.7	17.9	13.8	29.5	21.0	8.5	25.0	3.1	20.2	75.1	23.8	55.1	1015	16.6
Year	1010.5	29.0	16.6	12.4	27.3	19.6	7.7	23.1	2.8	18.6	76.3	21.5	953.7	29.2 hrs	16.3
Maxima	1019.6 July 4th & 5th	33.1 Feb. 2nd	...	15.1 Nov.	31.3 Feb.	...	9.4 Nov.	...	3.2 Nov. 17th	26.8 Mar. 2nd	100% Mar. 22nd	35.3 Mar. 2nd	109.5 mms ending 5 hrs on April 5th		...
Minima	997.0 March 31st	...	13.0 July 1st	10.1 Apr.	...	16.8 June July & Aug.	5.7 Apr.	...	0.0 Mar. 22nd	8.1 June 28th	37.2 June 28th	10.8 June 28th	...		9.1 July 1st

Month 1942	Mean daily Amount of Evaporation mms	Temperature of the Soil: Feet 10 °C	Feet 5 °C	Feet 2 °C	Ins. 12 °C	Mean Amount of Cloud (0-10)	Daily Duration of Bright Sunshine hrs	Percentage of Possible Sunshine %	Observed Wind Velocity m.p.s.	Number of Days of: Rain	Lightning	Thunder-storm
Jan.	7.1	24.85	25.39	28.89	29.16	5.3	8.94	67.3	2.66	17	1	...
Feb.	6.7	25.25	26.90	29.09	29.84	6.2	8.31	65.6	2.41	22	8	6
Mar.	6.0	25.59	27.36	29.35	29.36	5.1	8.55	70.1	2.89	24	1	...
Apr.	4.1	25.79	27.24	27.53	27.00	5.6	7.52	64.8	3.20	19	3	...
May	4.3	25.93	26.55	26.13	25.30	5.3	7.65	68.7	3.28	13	...	...
June	3.3	25.79	25.75	24.16	23.08	4.5	7.60	79.6	2.94	20	...	...
July	4.0	25.38	24.72	22.60	21.66	4.8	7.98	72.5	3.75	23	...	...
Aug.	4.2	24.81	23.81	22.65	22.05	4.8	8.29	72.8	3.55	25	...	...
Sept.	4.6	24.39	23.57	23.19	22.88	4.4	8.14	68.2	3.15	19	...	...
Oct.	5.4	24.11	23.72	24.08	23.94	5.3	7.86	63.0	3.14	17	...	...
Nov.	6.2	24.04	24.16	25.69	25.80	4.4	9.04	69.4	2.48	8	...	...
Dec.	6.7	24.08	25.00	27.45	27.61	4.2	10.03	75.5	2.77	21	1	1
Year	5.2	25.00	25.44	25.96	25.64	5.0	8.32	69.8	3.02	228	14	7
Max.	9.4 Nov. 17th	26.0 Apr., May & June	27.6 Apr.	29.9 Feb.	30.6 Jan. & Feb.	...	12.7 Jan. 26th & Dec. 19th	98 Jan. 26th	11.8 May 19th	25 Aug.	8 Feb.	6 Feb.
Min.	0.4 Apr. 11th	24.0 Oct. Nov & Dec.	23.3 Sept. & Oct.	22.4 Aug.	21.0 July	...	...	...	...	[illegible] Nov.	...	...